



Full wwPDB EM Validation Report ⓘ

Jul 8, 2024 – 02:22 am BST

PDB ID : 7QH4
EMDB ID : EMD-13961
Title : Structure of the B. subtilis disome - collided 70S ribosome
Authors : Kratzat, H.; Buschauer, R.; Berninghausen, O.; Beckmann, R.
Deposited on : 2021-12-10
Resolution : 5.45 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

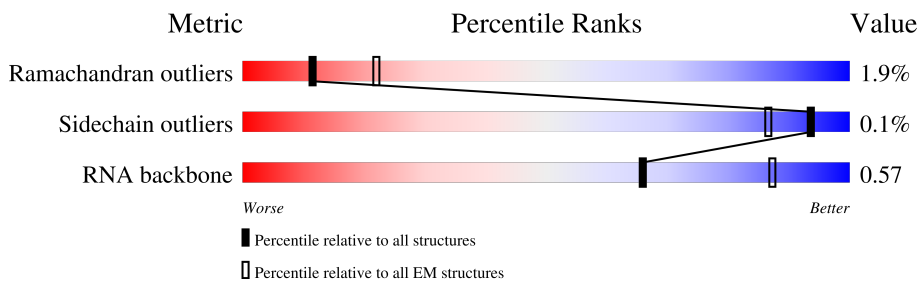
EMDB validation analysis : 0.0.1.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 5.45 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



| Metric | Whole archive (#Entries) | EM structures (#Entries) |
|-----------------------|--------------------------|--------------------------|
| Ramachandran outliers | 154571 | 4023 |
| Sidechain outliers | 154315 | 3826 |
| RNA backbone | 4643 | 859 |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | A | 2928 | |
| 2 | B | 119 | |
| 3 | C | 277 | |
| 4 | D | 208 | |
| 5 | E | 207 | |
| 6 | F | 179 | |
| 7 | G | 179 | |
| 8 | H | 166 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|----------------------------|
| 9 | I | 141 | 40% 93% 6% |
| 10 | J | 145 | 8% 97% .. |
| 11 | K | 122 | 28% 98% . |
| 12 | L | 146 | 20% 99% . |
| 13 | M | 144 | 28% 96% . |
| 14 | N | 120 | 98% .. |
| 15 | O | 120 | 13% 95% 5% |
| 16 | P | 115 | 15% 99% . |
| 17 | Q | 119 | 5% 98% . |
| 18 | R | 102 | . 97% .. |
| 19 | S | 113 | 14% 91% 5% |
| 20 | T | 95 | 11% 98% . |
| 21 | U | 103 | 13% 94% .. |
| 22 | V | 94 | 19% 87% 13% |
| 23 | Y | 62 | 29% 90% 6% |
| 24 | Z | 66 | 11% 98% . |
| 25 | a | 59 | 8% 97% .. |
| 26 | b | 59 | 15% 90% 8% |
| 27 | c | 49 | 18% 98% . |
| 28 | d | 44 | 32% 100% |
| 29 | e | 66 | 27% 95% .. |
| 30 | f | 37 | 11% 97% . |
| 31 | W | 1555 | . 65% 26% 8% . |
| 32 | X | 246 | 13% 89% 9% |
| 33 | g | 218 | 20% 96% . |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------------------|
| 34 | h | 200 | 46% 98% . |
| 35 | i | 166 | 24% 97% .. |
| 36 | j | 95 | 9% 98% . |
| 37 | k | 156 | 12% 97% .. |
| 38 | l | 132 | 5% 98% .. |
| 39 | m | 130 | 6% 96% . |
| 40 | n | 102 | 13% 96% . |
| 41 | o | 131 | 22% 89% . 10% |
| 42 | p | 138 | 30% 94% . 5% |
| 43 | q | 121 | 14% 90% . 8% |
| 44 | r | 61 | 7% 93% . 5% |
| 45 | s | 89 | . 97% .. |
| 46 | t | 90 | . 97% .. |
| 47 | u | 87 | 8% 99% . |
| 48 | v | 79 | 8% 86% . 10% |
| 49 | w | 92 | 10% 89% . 9% |
| 50 | x | 88 | 10% 97% .. |
| 51 | l | 77 | 14% 70% 23% 5% . |
| 51 | y | 77 | 40% 68% 27% . . |

2 Entry composition [i](#)

There are 51 unique types of molecules in this entry. The entry contains 136043 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 23S rRNA.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|-------|
| | | | Total | C | N | O | P | | |
| 1 | A | 2923 | 62767 | 28002 | 11589 | 20253 | 2923 | 0 | 0 |

There is a discrepancy between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|---------------|
| A | 1558 | C | G | conflict | GB 1864548803 |

- Molecule 2 is a RNA chain called 5S rRNA.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|-------|
| | | | Total | C | N | O | P | | |
| 2 | B | 112 | 2395 | 1068 | 435 | 780 | 112 | 0 | 0 |

- Molecule 3 is a protein called 50S ribosomal protein L2.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 3 | C | 275 | 2111 | 1312 | 416 | 377 | 6 | 0 | 0 |

- Molecule 4 is a protein called 50S ribosomal protein L3.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 4 | D | 207 | 1575 | 988 | 290 | 292 | 5 | 0 | 0 |

- Molecule 5 is a protein called 50S ribosomal protein L4.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 5 | E | 205 | 1561 | 980 | 289 | 290 | 2 | 0 | 0 |

- Molecule 6 is a protein called 50S ribosomal protein L5.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 6 | F | 178 | 1404 | 893 | 245 | 259 | 7 | 0 | 0 |

- Molecule 7 is a protein called Ribosomal protein L6.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 7 | G | 175 | 1342 | 835 | 248 | 257 | 2 | 0 | 0 |

- Molecule 8 is a protein called 50S ribosomal protein L10.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 8 | H | 123 | 955 | 602 | 163 | 189 | 1 | 0 | 0 |

There is a discrepancy between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|----------------|
| H | 154 | THR | ALA | conflict | UNP A0A063X7V1 |

- Molecule 9 is a protein called 50S ribosomal protein L11.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 9 | I | 133 | 981 | 617 | 173 | 185 | 6 | 0 | 0 |

- Molecule 10 is a protein called 50S ribosomal protein L13.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 10 | J | 142 | 1123 | 710 | 206 | 202 | 5 | 0 | 0 |

- Molecule 11 is a protein called 50S ribosomal protein L14.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 11 | K | 122 | 920 | 571 | 173 | 172 | 4 | 0 | 0 |

- Molecule 12 is a protein called 50S ribosomal protein L15.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 12 | L | 146 | Total | C | N | O | S | 0 | 0 |
| | | | 1081 | 671 | 207 | 201 | 2 | | |

- Molecule 13 is a protein called 50S ribosomal protein L16.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 13 | M | 138 | Total | C | N | O | S | 0 | 0 |
| | | | 1097 | 703 | 208 | 181 | 5 | | |

- Molecule 14 is a protein called 50S ribosomal protein L17.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 14 | N | 119 | Total | C | N | O | S | 0 | 0 |
| | | | 953 | 583 | 186 | 180 | 4 | | |

- Molecule 15 is a protein called 50S ribosomal protein L18.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 15 | O | 120 | Total | C | N | O | S | 0 | 0 |
| | | | 912 | 564 | 176 | 171 | 1 | | |

- Molecule 16 is a protein called 50S ribosomal protein L19.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| 16 | P | 114 | Total | C | N | O | 0 | 0 |
| | | | 936 | 595 | 184 | 157 | | |

- Molecule 17 is a protein called 50S ribosomal protein L20.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 17 | Q | 117 | Total | C | N | O | S | 0 | 0 |
| | | | 940 | 591 | 189 | 156 | 4 | | |

- Molecule 18 is a protein called 50S ribosomal protein L21.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| 18 | R | 101 | Total | C | N | O | 0 | 0 |
| | | | 786 | 501 | 139 | 146 | | |

- Molecule 19 is a protein called 50S ribosomal protein L22.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 19 | S | 109 | Total | C | N | O | S | 0 | 0 |
| | | | 842 | 525 | 164 | 150 | 3 | | |

- Molecule 20 is a protein called 50S ribosomal protein L23.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 20 | T | 93 | Total | C | N | O | S | 0 | 0 |
| | | | 752 | 472 | 137 | 139 | 4 | | |

- Molecule 21 is a protein called 50S ribosomal protein L24.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 21 | U | 100 | Total | C | N | O | S | 0 | 0 |
| | | | 754 | 473 | 141 | 137 | 3 | | |

- Molecule 22 is a protein called 50S ribosomal protein L27.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| 22 | V | 82 | Total | C | N | O | 0 | 0 |
| | | | 630 | 390 | 123 | 117 | | |

- Molecule 23 is a protein called 50S ribosomal protein L28.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 23 | Y | 58 | Total | C | N | O | S | 0 | 0 |
| | | | 444 | 275 | 92 | 75 | 2 | | |

- Molecule 24 is a protein called 50S ribosomal protein L29.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|-------|
| 24 | Z | 65 | Total | C | N | O | S | 0 | 0 |
| | | | 530 | 328 | 102 | 98 | 2 | | |

- Molecule 25 is a protein called 50S ribosomal protein L30.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 25 | a | 58 | Total | C | N | O | S | 0 | 0 |
| | | | 455 | 281 | 89 | 84 | 1 | | |

- Molecule 26 is a protein called 50S ribosomal protein L32.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 26 | b | 54 | Total | C | N | O | S | 0 | 0 |
| | | | 426 | 262 | 86 | 71 | 7 | | |

- Molecule 27 is a protein called 50S ribosomal protein L33.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 27 | c | 48 | Total | C | N | O | S | 0 | 0 |
| | | | 401 | 244 | 80 | 73 | 4 | | |

- Molecule 28 is a protein called 50S ribosomal protein L34.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 28 | d | 44 | Total | C | N | O | S | 0 | 0 |
| | | | 367 | 222 | 89 | 54 | 2 | | |

- Molecule 29 is a protein called 50S ribosomal protein L35.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|-------|
| 29 | e | 64 | Total | C | N | O | S | 0 | 0 |
| | | | 512 | 321 | 107 | 82 | 2 | | |

- Molecule 30 is a protein called 50S ribosomal protein L36.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 30 | f | 36 | Total | C | N | O | S | 0 | 0 |
| | | | 288 | 181 | 59 | 44 | 4 | | |

- Molecule 31 is a RNA chain called 16S rRNA.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-------|------|-------|------|---------|-------|
| 31 | W | 1544 | Total | C | N | O | P | 0 | 0 |
| | | | 33115 | 14768 | 6067 | 10736 | 1544 | | |

- Molecule 32 is a protein called 30S ribosomal protein S2.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| 32 | X | 224 | Total | C | N | O | 0 | 0 |
| | | | 896 | 448 | 224 | 224 | | |

- Molecule 33 is a protein called 30S ribosomal protein S3.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| | | | Total | C | N | | | O |
| 33 | g | 210 | 840 | 420 | 210 | 210 | 0 | 0 |

- Molecule 34 is a protein called 30S ribosomal protein S4.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| | | | Total | C | N | | | O |
| 34 | h | 199 | 797 | 398 | 199 | 200 | 0 | 0 |

- Molecule 35 is a protein called 30S ribosomal protein S5.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| | | | Total | C | N | | | O |
| 35 | i | 165 | 661 | 330 | 165 | 166 | 0 | 0 |

- Molecule 36 is a protein called 30S ribosomal protein S6.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|----|---------|-------|---|
| | | | Total | C | N | | | O |
| 36 | j | 95 | 381 | 190 | 95 | 96 | 0 | 0 |

- Molecule 37 is a protein called 30S ribosomal protein S7.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| | | | Total | C | N | | | O |
| 37 | k | 153 | 613 | 306 | 153 | 154 | 0 | 0 |

- Molecule 38 is a protein called 30S ribosomal protein S8.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| | | | Total | C | N | | | O |
| 38 | l | 131 | 525 | 262 | 131 | 132 | 0 | 0 |

- Molecule 39 is a protein called 30S ribosomal protein S9.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| | | | Total | C | N | | | O |
| 39 | m | 130 | 521 | 260 | 130 | 131 | 0 | 0 |

- Molecule 40 is a protein called 30S ribosomal protein S10.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| 40 | n | 102 | Total | C | N | O | 0 | 0 |
| | | | 409 | 204 | 102 | 103 | | |

- Molecule 41 is a protein called 30S ribosomal protein S11.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| 41 | o | 118 | Total | C | N | O | 0 | 0 |
| | | | 472 | 236 | 118 | 118 | | |

- Molecule 42 is a protein called 30S ribosomal protein S12.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| 42 | p | 137 | Total | C | N | O | 0 | 0 |
| | | | 549 | 274 | 137 | 138 | | |

- Molecule 43 is a protein called 30S ribosomal protein S13.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|-----|---------|-------|---|
| 43 | q | 119 | Total | C | N | O | 0 | 0 |
| | | | 476 | 238 | 119 | 119 | | |

- Molecule 44 is a protein called 30S ribosomal protein S14 type Z.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|----|---------|-------|---|
| 44 | r | 60 | Total | C | N | O | 0 | 0 |
| | | | 241 | 120 | 60 | 61 | | |

- Molecule 45 is a protein called 30S ribosomal protein S15.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|----|---------|-------|---|
| 45 | s | 88 | Total | C | N | O | 0 | 0 |
| | | | 353 | 176 | 88 | 89 | | |

- Molecule 46 is a protein called 30S ribosomal protein S16.

| Mol | Chain | Residues | Atoms | | | AltConf | Trace | |
|-----|-------|----------|-------|-----|----|---------|-------|---|
| 46 | t | 89 | Total | C | N | O | 0 | 0 |
| | | | 357 | 178 | 89 | 90 | | |

- Molecule 47 is a protein called 30S ribosomal protein S17.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| 47 | u | 86 | Total | C | N | O | 0 | 0 |
| | | | 345 | 172 | 86 | 87 | | |

- Molecule 48 is a protein called 30S ribosomal protein S18.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| 48 | v | 71 | Total | C | N | O | 0 | 0 |
| | | | 285 | 142 | 71 | 72 | | |

- Molecule 49 is a protein called 30S ribosomal protein S19.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| 49 | w | 84 | Total | C | N | O | 0 | 0 |
| | | | 336 | 168 | 84 | 84 | | |

- Molecule 50 is a protein called 30S ribosomal protein S20.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| 50 | x | 86 | Total | C | N | O | 0 | 0 |
| | | | 345 | 172 | 86 | 87 | | |

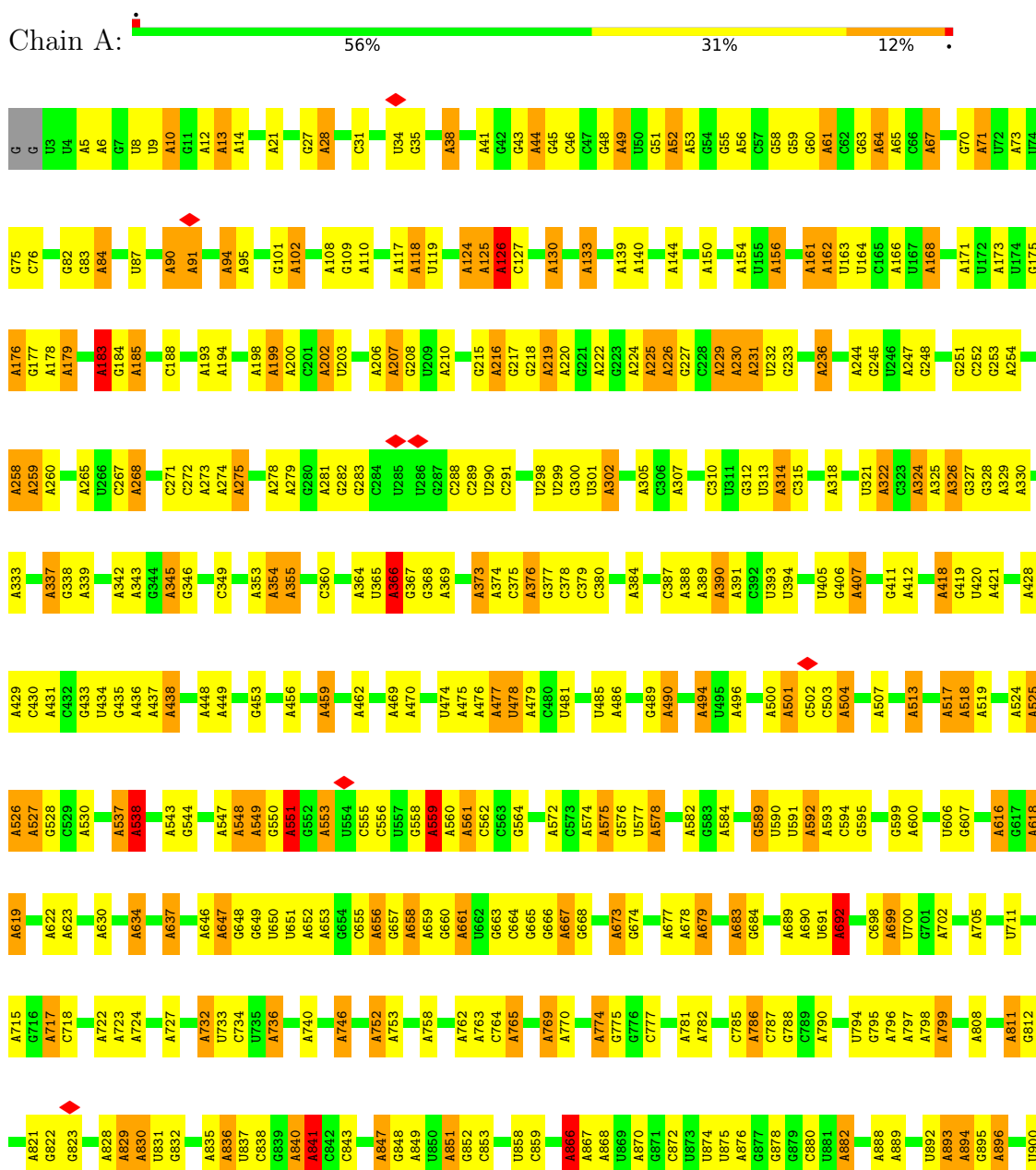
- Molecule 51 is a RNA chain called tRNA.

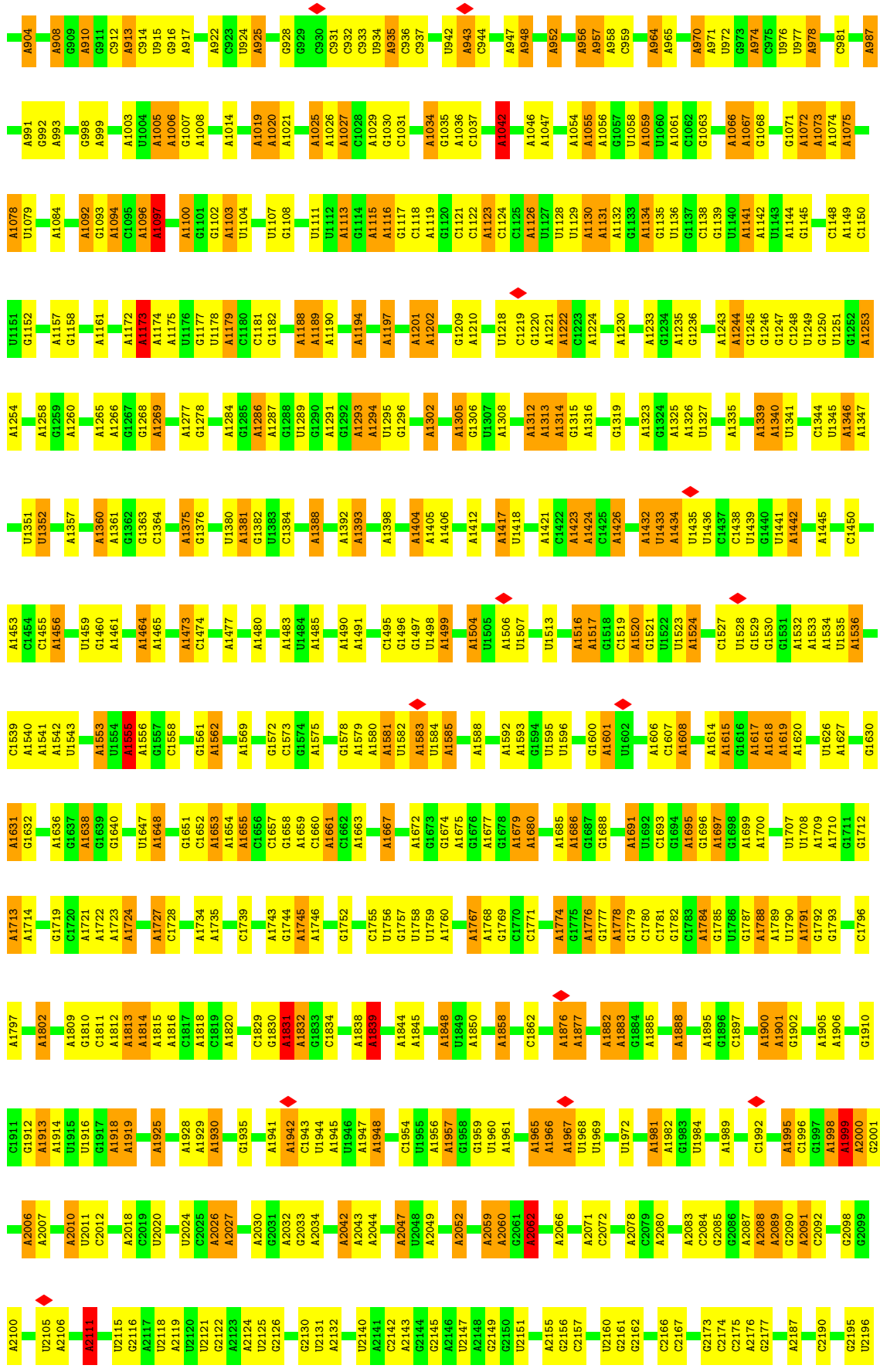
| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| 51 | y | 77 | Total | C | N | O | P | 0 | 0 |
| | | | 1643 | 731 | 290 | 545 | 77 | | |
| 51 | 1 | 77 | Total | C | N | O | P | 0 | 0 |
| | | | 1643 | 731 | 290 | 545 | 77 | | |

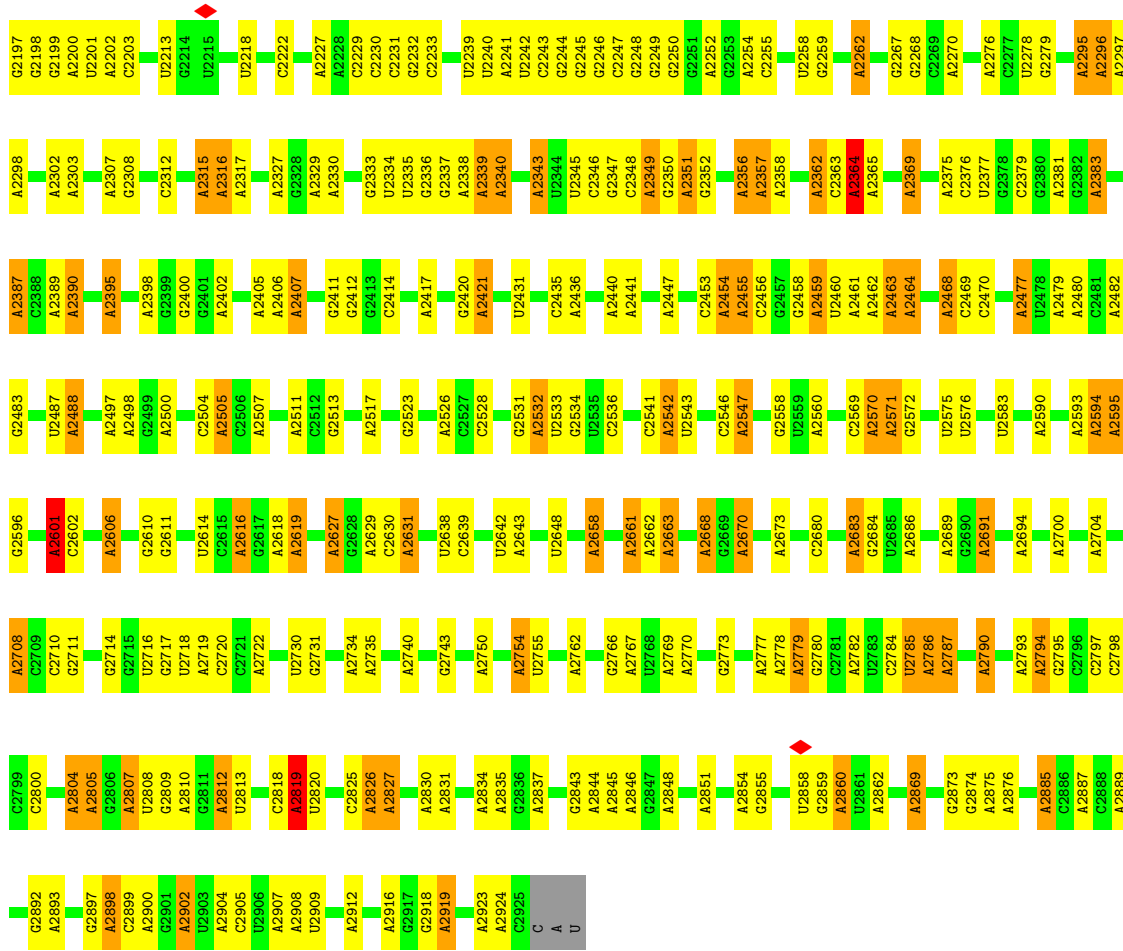
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

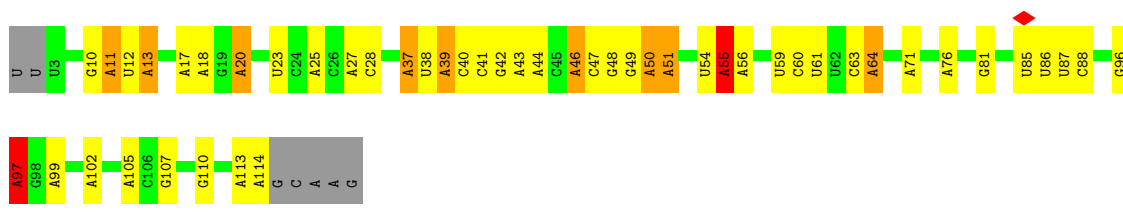
• Molecule 1: 23S rRNA



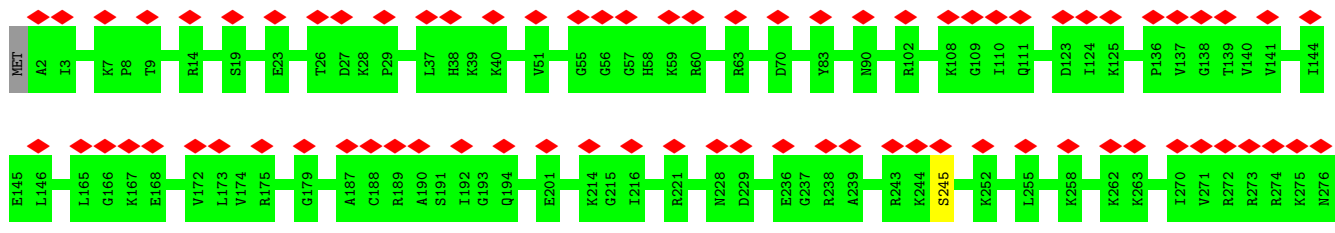




• Molecule 2: 5S rRNA

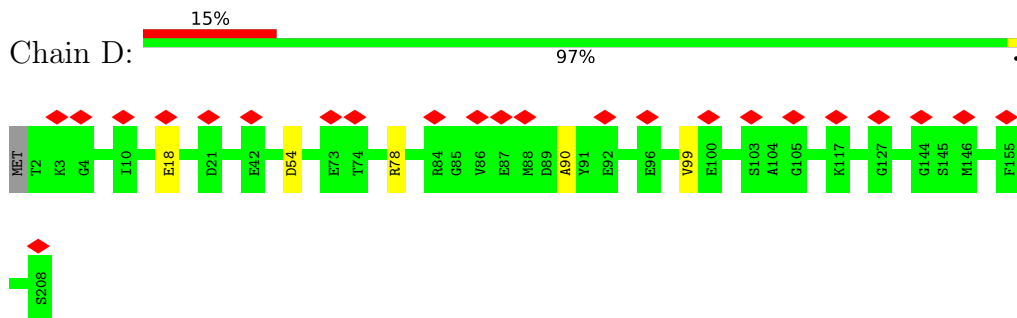


• Molecule 3: 50S ribosomal protein L2

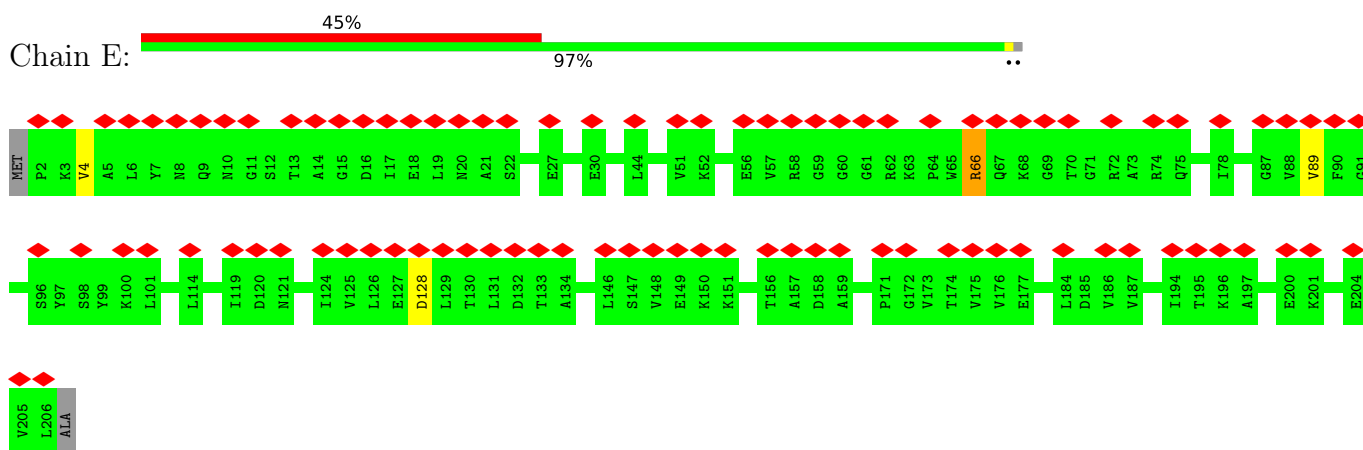


LYS

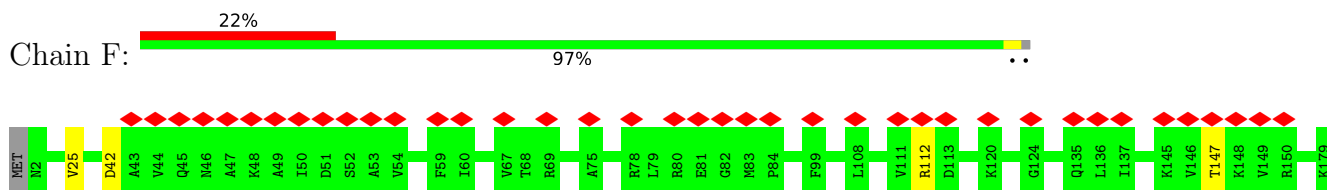
- Molecule 4: 50S ribosomal protein L3



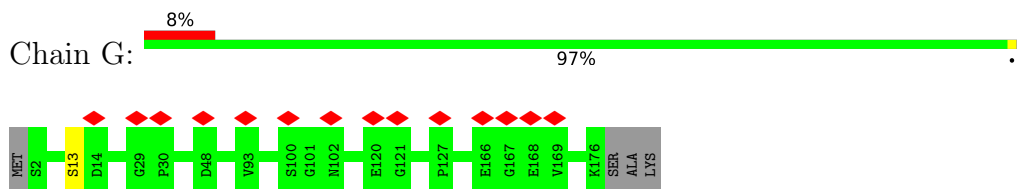
- Molecule 5: 50S ribosomal protein L4



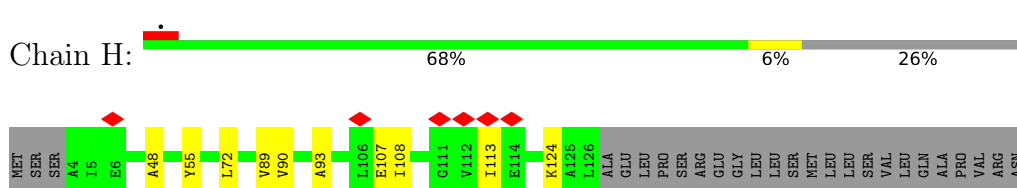
- Molecule 6: 50S ribosomal protein L5



- Molecule 7: Ribosomal protein L6

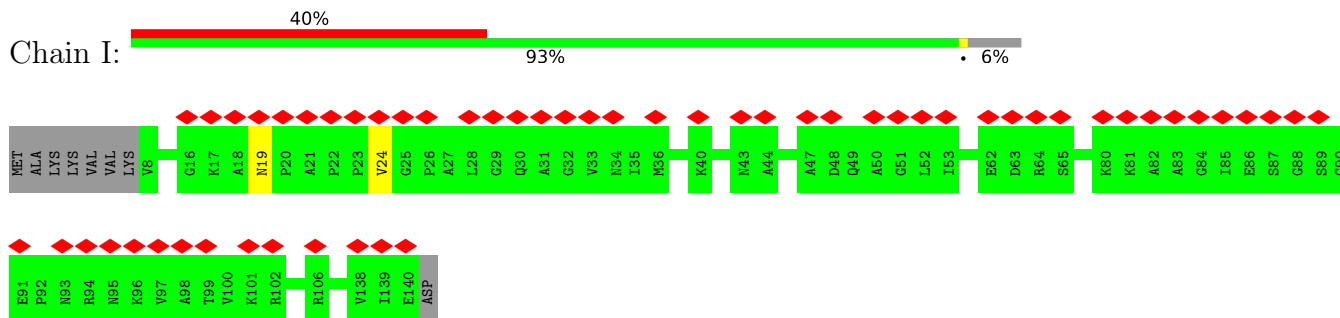


- Molecule 8: 50S ribosomal protein L10

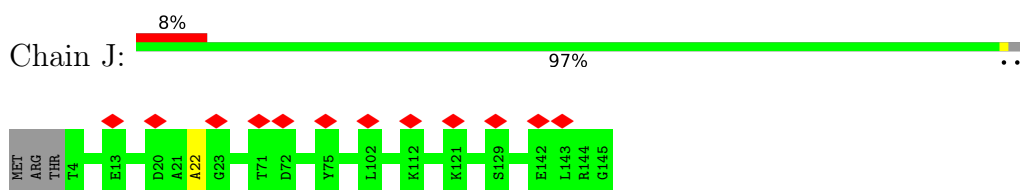


VAL
ALA
GLU
GLN
LYS
VAL
GLU
GLU
GLN
GLY
ALA

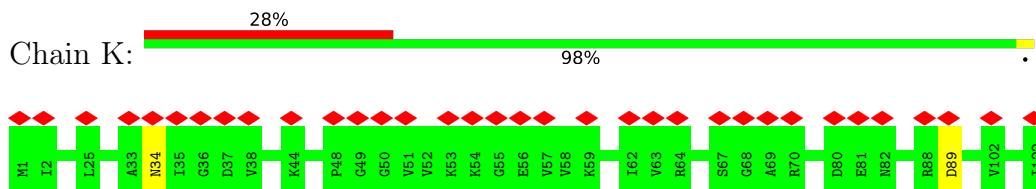
- Molecule 9: 50S ribosomal protein L11



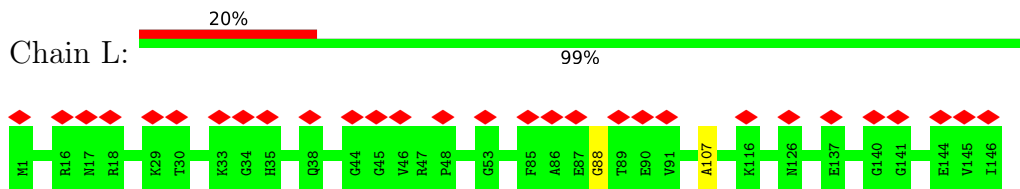
- Molecule 10: 50S ribosomal protein L13



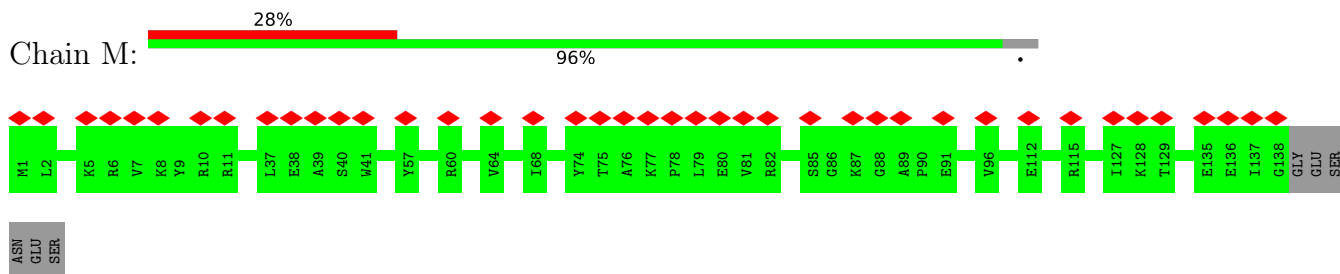
- Molecule 11: 50S ribosomal protein L14



- Molecule 12: 50S ribosomal protein L15



- Molecule 13: 50S ribosomal protein L16

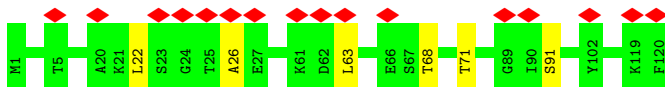


- Molecule 14: 50S ribosomal protein L17

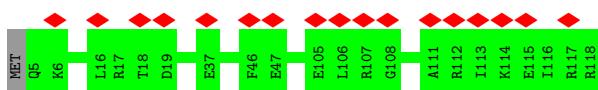




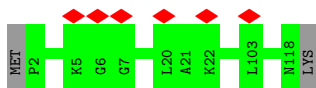
- Molecule 15: 50S ribosomal protein L18



- Molecule 16: 50S ribosomal protein L19



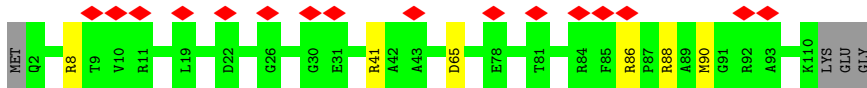
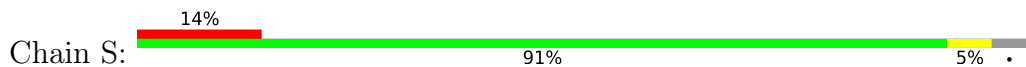
- Molecule 17: 50S ribosomal protein L20



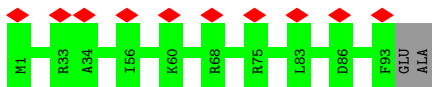
- Molecule 18: 50S ribosomal protein L21



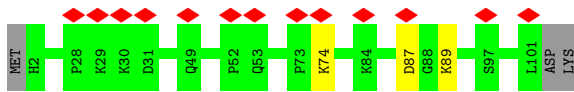
- Molecule 19: 50S ribosomal protein L22



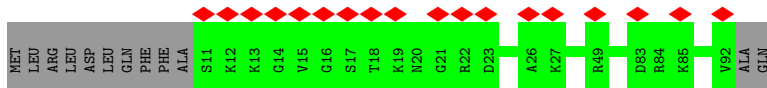
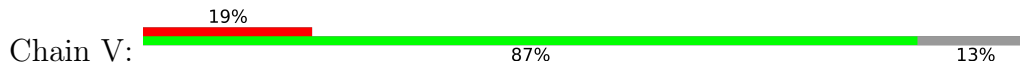
- Molecule 20: 50S ribosomal protein L23



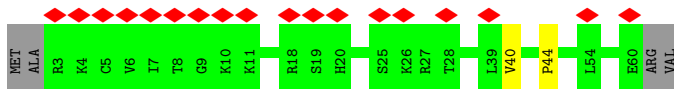
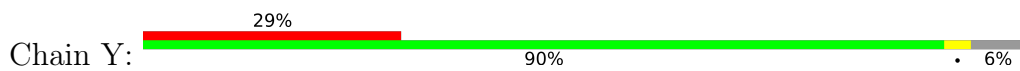
- Molecule 21: 50S ribosomal protein L24



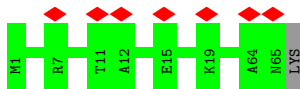
- Molecule 22: 50S ribosomal protein L27



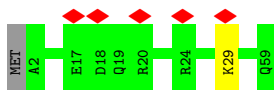
- Molecule 23: 50S ribosomal protein L28



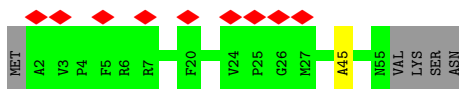
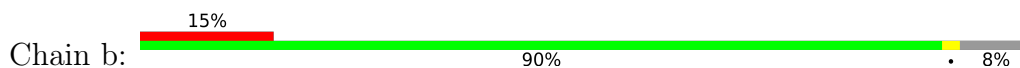
- Molecule 24: 50S ribosomal protein L29



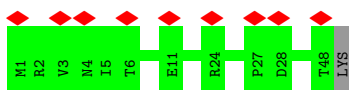
- Molecule 25: 50S ribosomal protein L30



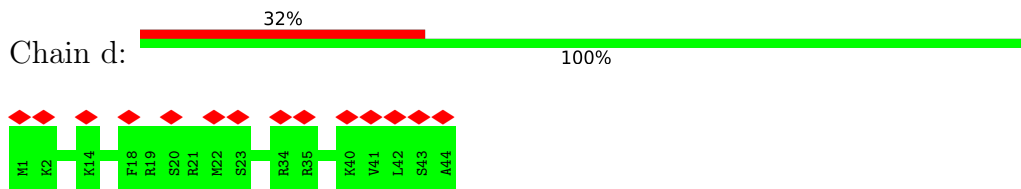
- Molecule 26: 50S ribosomal protein L32



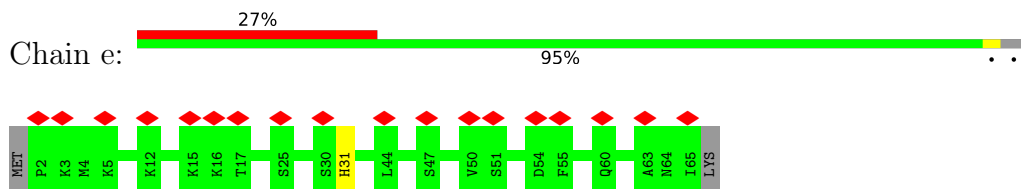
- Molecule 27: 50S ribosomal protein L33



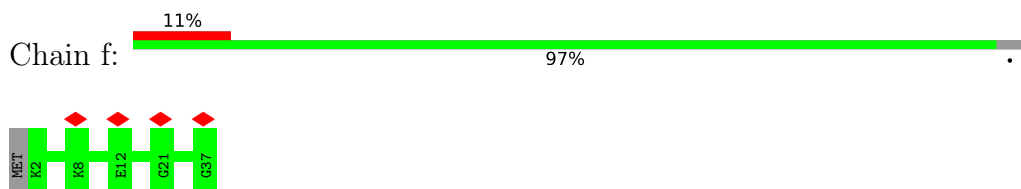
• Molecule 28: 50S ribosomal protein L34



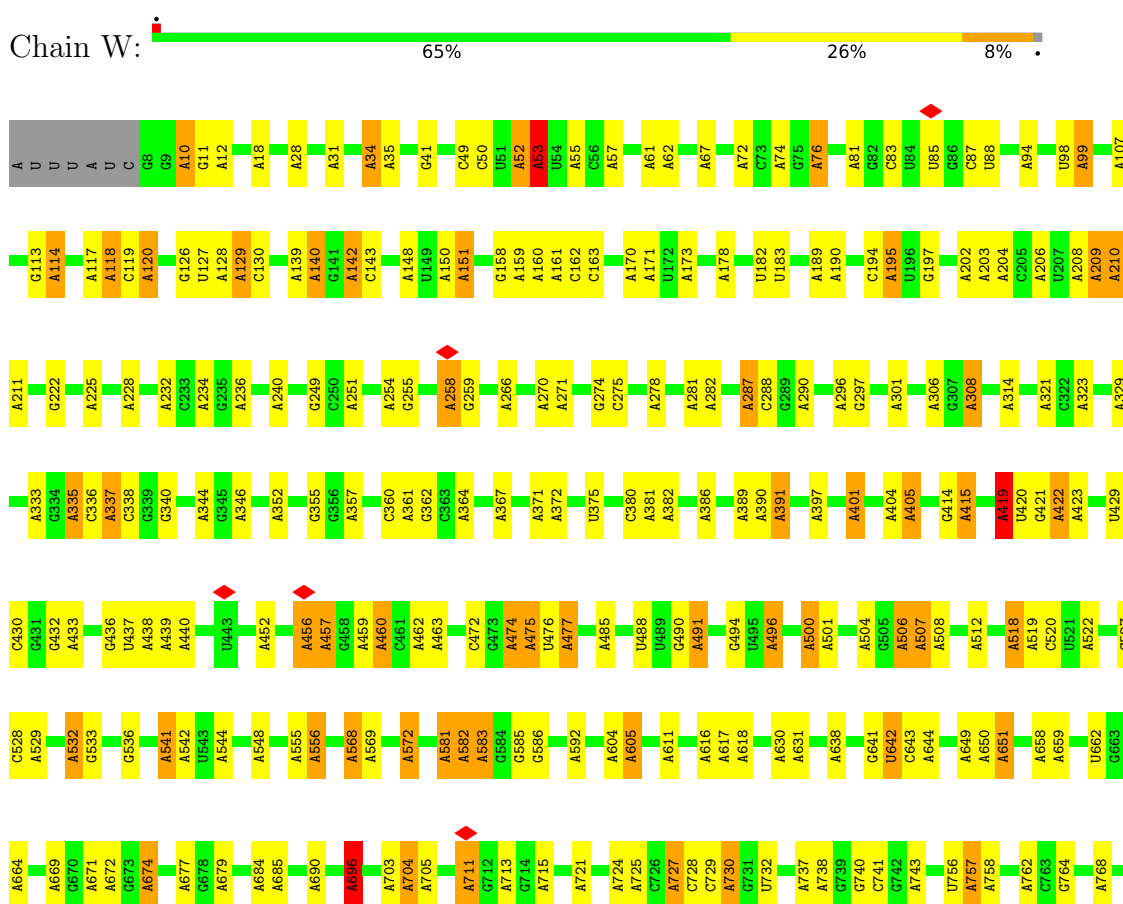
• Molecule 29: 50S ribosomal protein L35

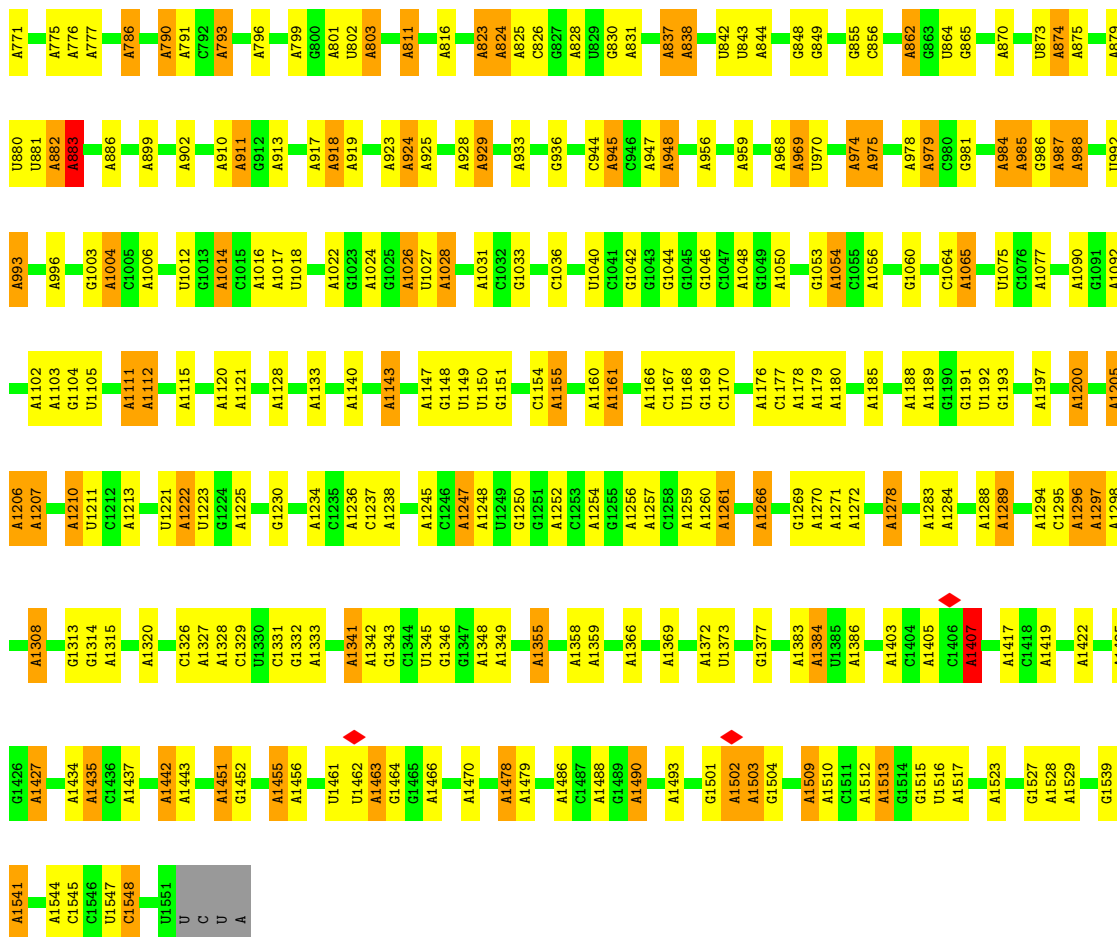


• Molecule 30: 50S ribosomal protein L36

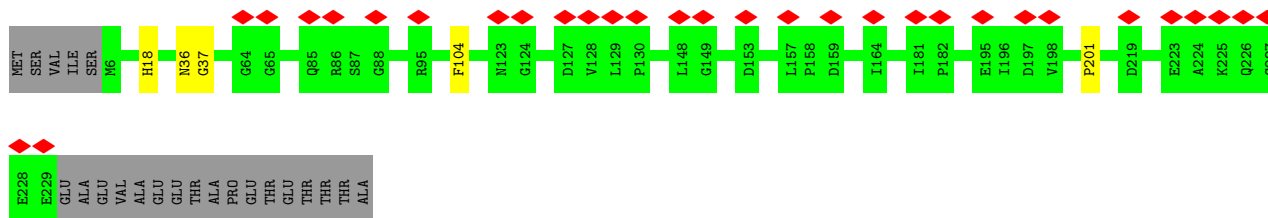
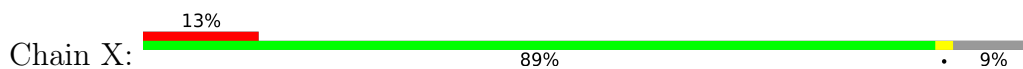


• Molecule 31: 16S rRNA

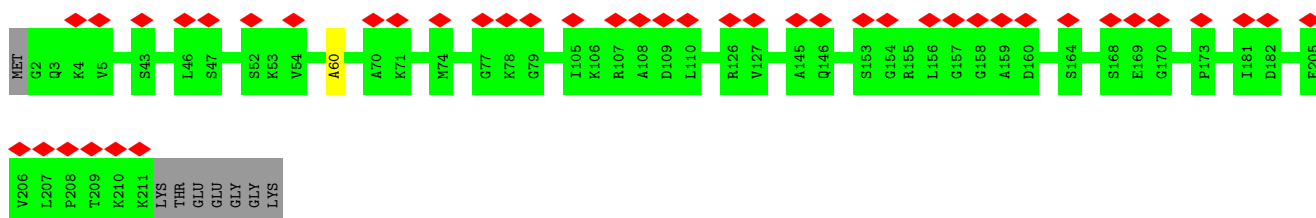




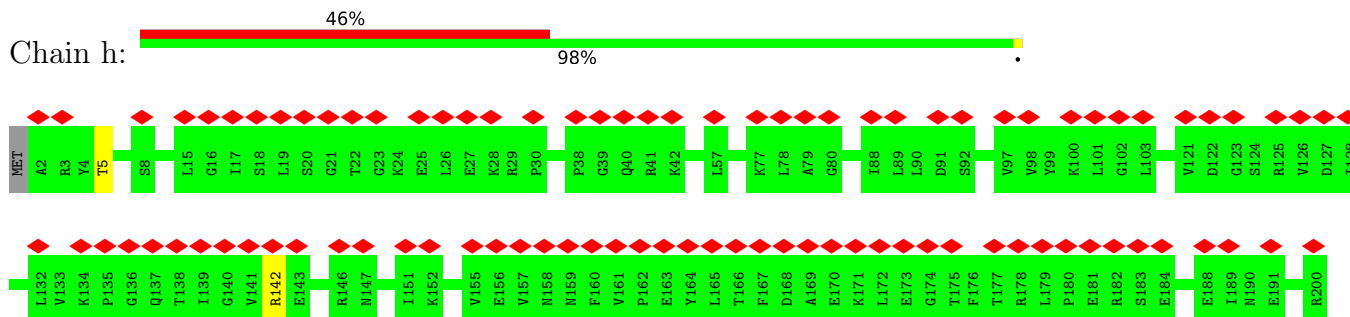
• Molecule 32: 30S ribosomal protein S2



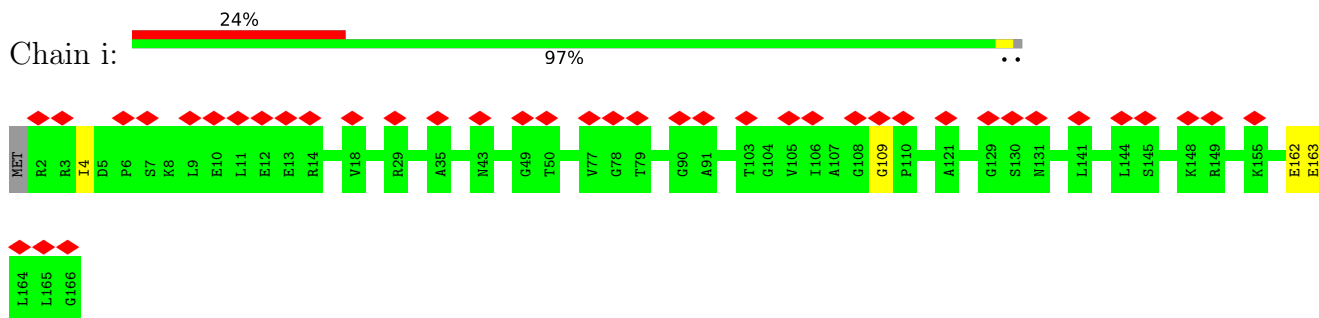
• Molecule 33: 30S ribosomal protein S3



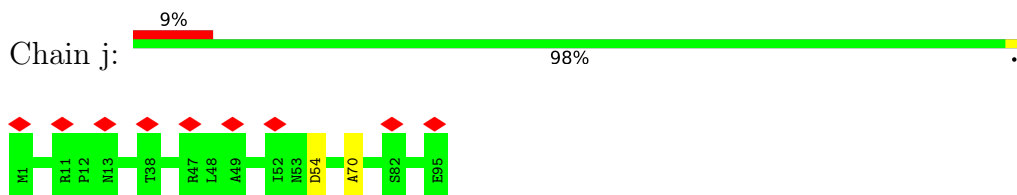
- Molecule 34: 30S ribosomal protein S4



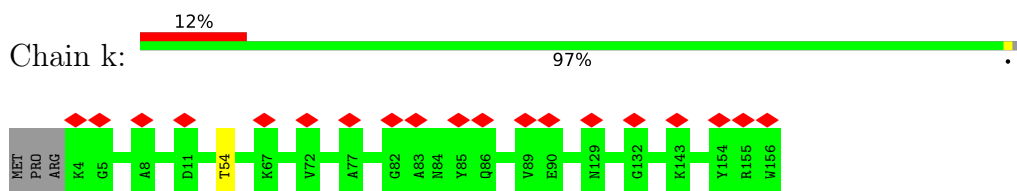
- Molecule 35: 30S ribosomal protein S5



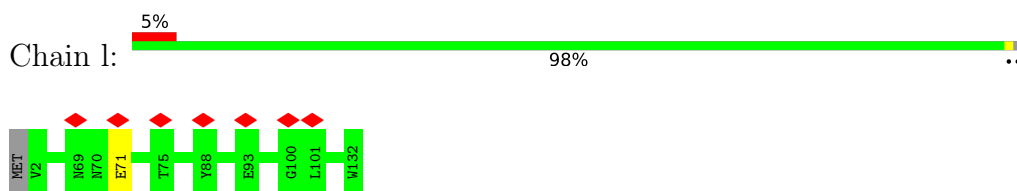
- Molecule 36: 30S ribosomal protein S6



- Molecule 37: 30S ribosomal protein S7



- Molecule 38: 30S ribosomal protein S8



- Molecule 39: 30S ribosomal protein S9

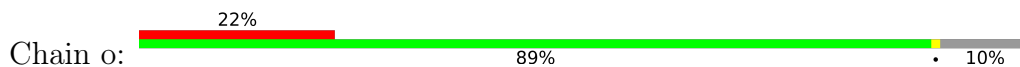




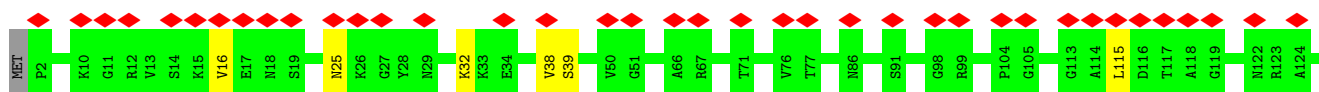
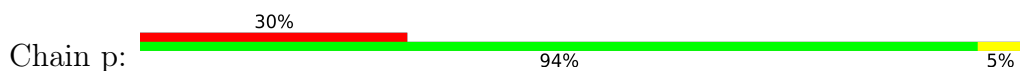
- Molecule 40: 30S ribosomal protein S10



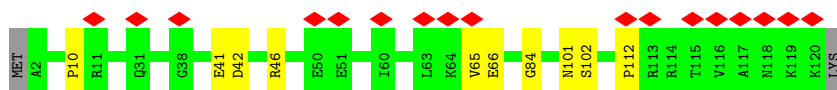
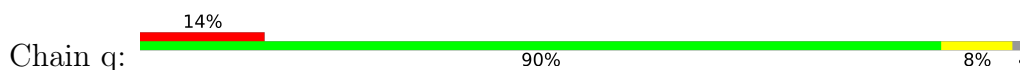
- Molecule 41: 30S ribosomal protein S11



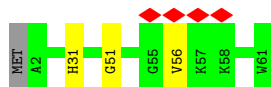
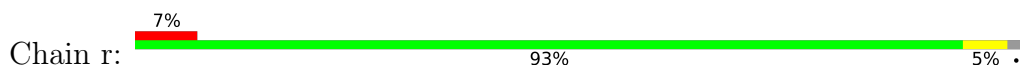
- Molecule 42: 30S ribosomal protein S12



- Molecule 43: 30S ribosomal protein S13

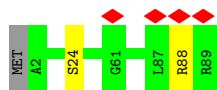


- Molecule 44: 30S ribosomal protein S14 type Z

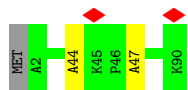


- Molecule 45: 30S ribosomal protein S15

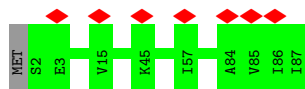




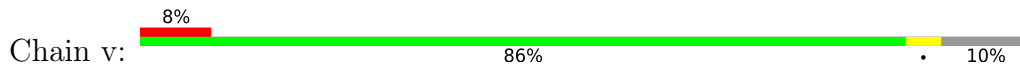
- Molecule 46: 30S ribosomal protein S16



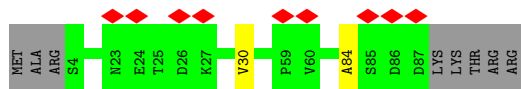
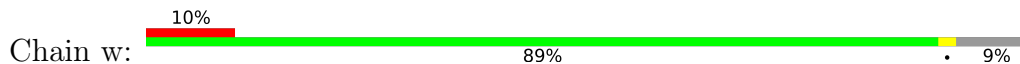
- Molecule 47: 30S ribosomal protein S17



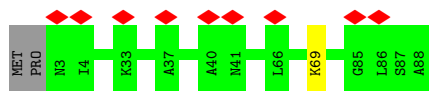
- Molecule 48: 30S ribosomal protein S18



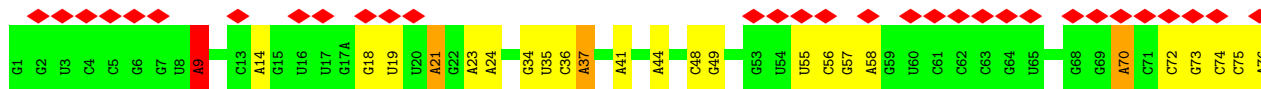
- Molecule 49: 30S ribosomal protein S19



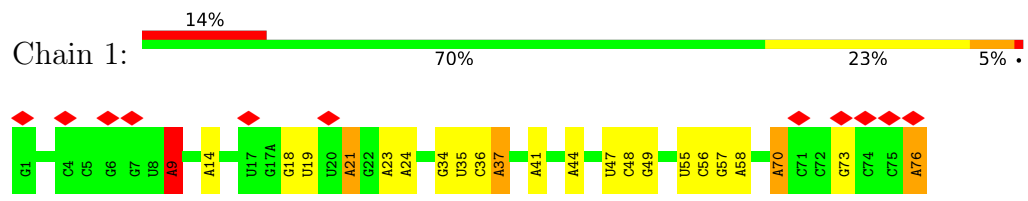
- Molecule 50: 30S ribosomal protein S20



- Molecule 51: tRNA



- Molecule 51: tRNA



4 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, Not provided | |
| Number of particles used | 12739 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | PHASE FLIPPING AND AMPLITUDE CORRECTION | Depositor |
| Microscope | FEI TITAN KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 40 | Depositor |
| Minimum defocus (nm) | 500 | Depositor |
| Maximum defocus (nm) | 4000 | Depositor |
| Magnification | Not provided | |
| Image detector | FEI FALCON II (4k x 4k) | Depositor |
| Maximum map value | 1.496 | Depositor |
| Minimum map value | -0.769 | Depositor |
| Average map value | -0.001 | Depositor |
| Map value standard deviation | 0.082 | Depositor |
| Recommended contour level | 0.22 | Depositor |
| Map size (\AA) | 650.4, 650.4, 650.4 | wwPDB |
| Map dimensions | 600, 600, 600 | wwPDB |
| Map angles ($^\circ$) | 90.0, 90.0, 90.0 | wwPDB |
| Pixel spacing (\AA) | 1.084, 1.084, 1.084 | Depositor |

5 Model quality i

5.1 Standard geometry i

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|-------------------|-------------|--------------------|
| | | RMSZ | # $ Z > 5$ | RMSZ | # $ Z > 5$ |
| 1 | A | 1.37 | 1882/70307 (2.7%) | 2.92 | 7351/109687 (6.7%) |
| 2 | B | 1.30 | 67/2678 (2.5%) | 2.78 | 247/4174 (5.9%) |
| 3 | C | 0.27 | 0/2148 | 0.48 | 0/2881 |
| 4 | D | 0.28 | 0/1597 | 0.47 | 0/2140 |
| 5 | E | 0.27 | 0/1580 | 0.50 | 0/2132 |
| 6 | F | 0.29 | 0/1423 | 0.51 | 0/1910 |
| 7 | G | 0.24 | 0/1360 | 0.43 | 0/1832 |
| 8 | H | 0.26 | 0/963 | 0.49 | 0/1298 |
| 9 | I | 0.26 | 0/995 | 0.48 | 0/1346 |
| 10 | J | 0.26 | 0/1146 | 0.49 | 0/1542 |
| 11 | K | 0.28 | 0/927 | 0.47 | 0/1245 |
| 12 | L | 0.23 | 0/1093 | 0.44 | 0/1457 |
| 13 | M | 0.21 | 0/1120 | 0.38 | 0/1496 |
| 14 | N | 0.26 | 0/960 | 0.50 | 0/1284 |
| 15 | O | 0.30 | 0/921 | 0.54 | 1/1236 (0.1%) |
| 16 | P | 0.24 | 0/949 | 0.44 | 0/1269 |
| 17 | Q | 0.27 | 0/952 | 0.45 | 0/1266 |
| 18 | R | 0.28 | 0/797 | 0.53 | 0/1070 |
| 19 | S | 0.34 | 0/851 | 0.59 | 0/1146 |
| 20 | T | 0.30 | 0/759 | 0.47 | 0/1011 |
| 21 | U | 0.27 | 0/764 | 0.52 | 0/1022 |
| 22 | V | 0.30 | 0/638 | 0.50 | 0/847 |
| 23 | Y | 0.30 | 0/448 | 0.58 | 0/596 |
| 24 | Z | 0.24 | 0/531 | 0.48 | 0/707 |
| 25 | a | 0.24 | 0/457 | 0.44 | 0/613 |
| 26 | b | 0.23 | 0/433 | 0.48 | 0/574 |
| 27 | c | 0.26 | 0/406 | 0.44 | 0/540 |
| 28 | d | 0.21 | 0/370 | 0.44 | 0/483 |
| 29 | e | 0.24 | 0/519 | 0.48 | 0/680 |
| 30 | f | 0.20 | 0/291 | 0.37 | 0/383 |
| 31 | W | 1.36 | 975/37074 (2.6%) | 2.90 | 3795/57834 (6.6%) |
| 32 | X | 0.32 | 0/895 | 0.40 | 0/1117 |
| 33 | g | 0.30 | 0/839 | 0.38 | 0/1047 |
| 34 | h | 0.26 | 0/796 | 0.42 | 0/992 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|--------------------|-------------|---------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 35 | i | 0.26 | 0/660 | 0.46 | 0/822 |
| 36 | j | 0.32 | 0/380 | 0.41 | 0/472 |
| 37 | k | 0.26 | 0/612 | 0.39 | 0/762 |
| 38 | l | 0.24 | 0/524 | 0.43 | 0/652 |
| 39 | m | 0.27 | 0/520 | 0.51 | 0/647 |
| 40 | n | 0.28 | 0/408 | 0.39 | 0/507 |
| 41 | o | 0.22 | 0/471 | 0.42 | 0/587 |
| 42 | p | 0.24 | 0/548 | 0.50 | 0/682 |
| 43 | q | 0.31 | 0/475 | 0.52 | 0/592 |
| 44 | r | 0.21 | 0/240 | 0.49 | 0/297 |
| 45 | s | 0.27 | 0/352 | 0.42 | 0/437 |
| 46 | t | 0.27 | 0/356 | 0.41 | 0/442 |
| 47 | u | 0.27 | 0/344 | 0.43 | 0/427 |
| 48 | v | 0.31 | 0/284 | 0.44 | 0/352 |
| 49 | w | 0.33 | 0/335 | 0.46 | 0/417 |
| 50 | x | 0.27 | 0/344 | 0.41 | 0/427 |
| 51 | l | 1.03 | 29/1834 (1.6%) | 2.18 | 105/2858 (3.7%) |
| 51 | y | 1.00 | 26/1834 (1.4%) | 2.08 | 94/2858 (3.3%) |
| All | All | 1.20 | 2979/148508 (2.0%) | 2.59 | 11593/223095 (5.2%) |

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 1 | A | 0 | 81 |
| 2 | B | 0 | 2 |
| 5 | E | 0 | 1 |
| 19 | S | 0 | 2 |
| 31 | W | 0 | 35 |
| 51 | l | 0 | 2 |
| 51 | y | 0 | 2 |
| All | All | 0 | 125 |

All (2979) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 508 | A | C8-N7 | 8.64 | 1.37 | 1.31 |
| 1 | A | 1188 | A | C8-N7 | 8.30 | 1.37 | 1.31 |
| 31 | W | 1372 | A | C8-N7 | 8.24 | 1.37 | 1.31 |
| 1 | A | 526 | A | C8-N7 | 8.18 | 1.37 | 1.31 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 631 | A | C8-N7 | 8.17 | 1.37 | 1.31 |
| 1 | A | 504 | A | C8-N7 | 8.16 | 1.37 | 1.31 |
| 1 | A | 2916 | A | C8-N7 | 8.11 | 1.37 | 1.31 |
| 1 | A | 374 | A | C8-N7 | 8.11 | 1.37 | 1.31 |
| 31 | W | 439 | A | C8-N7 | 8.11 | 1.37 | 1.31 |
| 1 | A | 1417 | A | C8-N7 | 8.09 | 1.37 | 1.31 |
| 1 | A | 2898 | A | C8-N7 | 8.08 | 1.37 | 1.31 |
| 31 | W | 150 | A | C8-N7 | 8.07 | 1.37 | 1.31 |
| 1 | A | 2793 | A | C8-N7 | 8.07 | 1.37 | 1.31 |
| 1 | A | 1814 | A | C8-N7 | 8.02 | 1.37 | 1.31 |
| 31 | W | 899 | A | C8-N7 | 8.01 | 1.37 | 1.31 |
| 1 | A | 389 | A | C8-N7 | 8.01 | 1.37 | 1.31 |
| 1 | A | 1347 | A | C8-N7 | 7.99 | 1.37 | 1.31 |
| 31 | W | 1213 | A | C8-N7 | 7.99 | 1.37 | 1.31 |
| 1 | A | 1339 | A | C8-N7 | 7.99 | 1.37 | 1.31 |
| 2 | B | 50 | A | C8-N7 | 7.98 | 1.37 | 1.31 |
| 31 | W | 452 | A | C8-N7 | 7.98 | 1.37 | 1.31 |
| 1 | A | 207 | A | C8-N7 | 7.98 | 1.37 | 1.31 |
| 1 | A | 1919 | A | C8-N7 | 7.97 | 1.37 | 1.31 |
| 31 | W | 1355 | A | C8-N7 | 7.97 | 1.37 | 1.31 |
| 1 | A | 2295 | A | C8-N7 | 7.95 | 1.37 | 1.31 |
| 1 | A | 1789 | A | C8-N7 | 7.95 | 1.37 | 1.31 |
| 1 | A | 501 | A | C8-N7 | 7.95 | 1.37 | 1.31 |
| 1 | A | 118 | A | C8-N7 | 7.95 | 1.37 | 1.31 |
| 1 | A | 2062 | A | C8-N7 | 7.94 | 1.37 | 1.31 |
| 2 | B | 17 | A | C8-N7 | 7.94 | 1.37 | 1.31 |
| 1 | A | 1179 | A | C8-N7 | 7.94 | 1.37 | 1.31 |
| 1 | A | 2807 | A | C8-N7 | 7.93 | 1.37 | 1.31 |
| 31 | W | 674 | A | C8-N7 | 7.93 | 1.37 | 1.31 |
| 31 | W | 1358 | A | C8-N7 | 7.92 | 1.37 | 1.31 |
| 31 | W | 658 | A | C8-N7 | 7.92 | 1.37 | 1.31 |
| 31 | W | 801 | A | C8-N7 | 7.92 | 1.37 | 1.31 |
| 1 | A | 219 | A | C8-N7 | 7.91 | 1.37 | 1.31 |
| 1 | A | 811 | A | C8-N7 | 7.91 | 1.37 | 1.31 |
| 1 | A | 732 | A | C8-N7 | 7.91 | 1.37 | 1.31 |
| 31 | W | 151 | A | C8-N7 | 7.91 | 1.37 | 1.31 |
| 31 | W | 254 | A | C8-N7 | 7.91 | 1.37 | 1.31 |
| 1 | A | 1995 | A | C8-N7 | 7.90 | 1.37 | 1.31 |
| 31 | W | 775 | A | C8-N7 | 7.90 | 1.37 | 1.31 |
| 1 | A | 1905 | A | C8-N7 | 7.90 | 1.37 | 1.31 |
| 1 | A | 547 | A | C8-N7 | 7.90 | 1.37 | 1.31 |
| 1 | A | 1473 | A | C8-N7 | 7.90 | 1.37 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 723 | A | C8-N7 | 7.90 | 1.37 | 1.31 |
| 31 | W | 240 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 31 | W | 506 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 31 | W | 556 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 31 | W | 1133 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 1 | A | 702 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 31 | W | 862 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 31 | W | 386 | A | C8-N7 | 7.89 | 1.37 | 1.31 |
| 1 | A | 494 | A | C8-N7 | 7.88 | 1.37 | 1.31 |
| 1 | A | 2047 | A | C8-N7 | 7.88 | 1.37 | 1.31 |
| 31 | W | 258 | A | C8-N7 | 7.88 | 1.37 | 1.31 |
| 1 | A | 2089 | A | C8-N7 | 7.88 | 1.37 | 1.31 |
| 1 | A | 659 | A | C8-N7 | 7.87 | 1.37 | 1.31 |
| 1 | A | 1078 | A | C8-N7 | 7.87 | 1.37 | 1.31 |
| 1 | A | 428 | A | C8-N7 | 7.86 | 1.37 | 1.31 |
| 1 | A | 1201 | A | C8-N7 | 7.86 | 1.37 | 1.31 |
| 1 | A | 2083 | A | C8-N7 | 7.85 | 1.37 | 1.31 |
| 31 | W | 491 | A | C8-N7 | 7.85 | 1.37 | 1.31 |
| 1 | A | 1026 | A | C8-N7 | 7.85 | 1.37 | 1.31 |
| 31 | W | 266 | A | C8-N7 | 7.85 | 1.37 | 1.31 |
| 1 | A | 314 | A | C8-N7 | 7.85 | 1.37 | 1.31 |
| 1 | A | 1066 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 1 | A | 176 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 1 | A | 470 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 1 | A | 1579 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 1 | A | 1020 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 1 | A | 2349 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 1 | A | 224 | A | C8-N7 | 7.84 | 1.37 | 1.31 |
| 31 | W | 924 | A | C8-N7 | 7.83 | 1.37 | 1.31 |
| 1 | A | 553 | A | C8-N7 | 7.83 | 1.37 | 1.31 |
| 31 | W | 67 | A | C8-N7 | 7.83 | 1.37 | 1.31 |
| 1 | A | 2526 | A | C8-N7 | 7.83 | 1.37 | 1.31 |
| 31 | W | 18 | A | C8-N7 | 7.83 | 1.37 | 1.31 |
| 1 | A | 1966 | A | C8-N7 | 7.83 | 1.37 | 1.31 |
| 1 | A | 6 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 1 | A | 1340 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 31 | W | 159 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 31 | W | 1503 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 1 | A | 1308 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 1 | A | 1941 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 31 | W | 28 | A | C8-N7 | 7.82 | 1.37 | 1.31 |
| 31 | W | 713 | A | C8-N7 | 7.82 | 1.37 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 925 | A | C8-N7 | 7.81 | 1.37 | 1.31 |
| 31 | W | 1207 | A | C8-N7 | 7.81 | 1.37 | 1.31 |
| 1 | A | 216 | A | C8-N7 | 7.81 | 1.37 | 1.31 |
| 31 | W | 1254 | A | C8-N7 | 7.81 | 1.37 | 1.31 |
| 1 | A | 2668 | A | C8-N7 | 7.81 | 1.37 | 1.31 |
| 1 | A | 1157 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 1925 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 1588 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 31 | W | 1247 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 575 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 1161 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 126 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 1434 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 31 | W | 1054 | A | C8-N7 | 7.80 | 1.37 | 1.31 |
| 1 | A | 183 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 1 | A | 1005 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 2 | B | 18 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 1333 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 53 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 650 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 1 | A | 1003 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 825 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 1050 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 1102 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 31 | W | 1320 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 1 | A | 646 | A | C8-N7 | 7.79 | 1.36 | 1.31 |
| 31 | W | 1022 | A | C8-N7 | 7.79 | 1.37 | 1.31 |
| 1 | A | 867 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 31 | W | 129 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 31 | W | 1056 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 1 | A | 782 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 1 | A | 1119 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 1 | A | 448 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 31 | W | 1261 | A | C8-N7 | 7.78 | 1.36 | 1.31 |
| 1 | A | 345 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 2686 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 31 | W | 457 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 999 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 1504 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 2893 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 388 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 647 | A | C8-N7 | 7.77 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1305 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 31 | W | 1443 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 2339 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 31 | W | 743 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 31 | W | 1541 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 51 | 1 | 23 | A | C8-N7 | 7.77 | 1.36 | 1.31 |
| 1 | A | 2375 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 965 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 200 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 1067 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 2447 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 31 | W | 824 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 2343 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 1774 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 31 | W | 679 | A | C8-N7 | 7.76 | 1.36 | 1.31 |
| 1 | A | 161 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 1 | A | 102 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 31 | W | 671 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 1 | A | 173 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 31 | W | 1178 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 1 | A | 179 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 1 | A | 1906 | A | C8-N7 | 7.75 | 1.36 | 1.31 |
| 1 | A | 2769 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 2908 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 31 | W | 485 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 31 | W | 1349 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 652 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 2722 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 2498 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 31 | W | 910 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 436 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 476 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 957 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 31 | W | 170 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 31 | W | 1359 | A | C8-N7 | 7.74 | 1.36 | 1.31 |
| 1 | A | 582 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 117 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 1434 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 1844 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 1982 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 367 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 583 | A | C8-N7 | 7.73 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 94 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 925 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 228 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 419 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 44 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 199 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 991 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 500 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 669 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 831 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 1466 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 1 | A | 692 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 371 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 1297 | A | C8-N7 | 7.73 | 1.36 | 1.31 |
| 31 | W | 870 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 1061 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 2364 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 14 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 1123 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 1580 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 2834 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 31 | W | 140 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 31 | W | 401 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 952 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 1788 | A | C8-N7 | 7.72 | 1.36 | 1.31 |
| 1 | A | 1555 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 2071 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 2087 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 2 | B | 114 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 31 | W | 501 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 1516 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 31 | W | 791 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 524 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 1142 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 1876 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 31 | W | 738 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 2754 | A | C8-N7 | 7.71 | 1.36 | 1.31 |
| 1 | A | 185 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 477 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 618 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2329 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2919 | A | C8-N7 | 7.70 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 730 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 64 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 384 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 496 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2030 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2406 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2900 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 31 | W | 171 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 31 | W | 1529 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 1592 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2740 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 2 | B | 76 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 31 | W | 1386 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 2356 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 21 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 717 | A | C8-N7 | 7.70 | 1.36 | 1.31 |
| 1 | A | 166 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 1406 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 31 | W | 323 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 1405 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 1412 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 31 | W | 352 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 31 | W | 704 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 31 | W | 1512 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 917 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 1224 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 1948 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 2830 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 1074 | A | C8-N7 | 7.69 | 1.36 | 1.31 |
| 1 | A | 139 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 342 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 479 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 1432 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 1697 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 2767 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 2902 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 1160 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 1328 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 781 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 896 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 189 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 273 | A | C8-N7 | 7.68 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2779 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 1166 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 154 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 1490 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 415 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 1128 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 203 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 490 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 507 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 1818 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 1 | A | 2479 | A | C8-N7 | 7.68 | 1.36 | 1.31 |
| 31 | W | 1369 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 1302 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 1914 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 31 | W | 762 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 144 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 2078 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 2619 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 31 | W | 664 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 31 | W | 768 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 2330 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 2398 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 2593 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 31 | W | 945 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 31 | W | 1425 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 1 | A | 762 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 31 | W | 1257 | A | C8-N7 | 7.67 | 1.36 | 1.31 |
| 51 | y | 41 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 364 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 2923 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 31 | W | 139 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 31 | W | 1006 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 31 | W | 1451 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 202 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 329 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 658 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 922 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1115 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1361 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1499 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1536 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1636 | A | C8-N7 | 7.66 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 923 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 31 | W | 1188 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 31 | W | 1298 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 888 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1084 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 2875 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 51 | y | 21 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 130 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 244 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 1465 | A | C8-N7 | 7.66 | 1.36 | 1.31 |
| 1 | A | 2860 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 2 | B | 113 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 592 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 2315 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 2819 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 31 | W | 282 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 1113 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 1313 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 31 | W | 208 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 31 | W | 1342 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 1532 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 2 | B | 37 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 31 | W | 357 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 31 | W | 1121 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 31 | W | 290 | A | C8-N7 | 7.65 | 1.36 | 1.31 |
| 1 | A | 421 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 656 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 1197 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 2505 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 2683 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 2 | B | 105 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 31 | W | 837 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 31 | W | 1366 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 2000 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 31 | W | 1502 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 31 | W | 271 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 31 | W | 333 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 281 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 31 | W | 1200 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 51 | y | 23 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 537 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 2052 | A | C8-N7 | 7.64 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1144 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 2670 | A | C8-N7 | 7.64 | 1.36 | 1.31 |
| 1 | A | 1269 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 1615 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 651 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 874 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 2601 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 265 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 1277 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 1784 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 1882 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 2777 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 1895 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 202 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 582 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 391 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 1695 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 2 | B | 55 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 62 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 142 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 908 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 31 | W | 721 | A | C8-N7 | 7.63 | 1.36 | 1.31 |
| 1 | A | 150 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 1746 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 849 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 1422 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 978 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 1346 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 1533 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 2662 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 2750 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 438 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 803 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 51 | 1 | 44 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 1540 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 190 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 758 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 929 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 893 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 1677 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 2673 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 5 | A | C8-N7 | 7.62 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1140 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 1419 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 31 | W | 1455 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 765 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 786 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 2362 | A | C8-N7 | 7.62 | 1.36 | 1.31 |
| 1 | A | 2500 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 148 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 422 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2006 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 1259 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 67 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 330 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 560 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 821 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 1130 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2060 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2080 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 2 | B | 102 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 786 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 1210 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 1270 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2661 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 2 | B | 39 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 456 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2307 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 51 | 1 | 21 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 1601 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2542 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 1 | A | 2826 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 61 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 988 | A | C8-N7 | 7.61 | 1.36 | 1.31 |
| 31 | W | 456 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 322 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 1360 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 1506 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 2477 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 333 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 1845 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 2889 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 1417 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 2007 | A | C8-N7 | 7.60 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2440 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 2 | B | 44 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 1180 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 51 | y | 44 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 1815 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 232 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 433 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 474 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 52 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 31 | W | 1437 | A | C8-N7 | 7.60 | 1.36 | 1.31 |
| 1 | A | 10 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 49 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 2778 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 296 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 1327 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 1778 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 2480 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 530 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 2643 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 1488 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 251 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 544 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 429 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 928 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 306 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 31 | W | 757 | A | C8-N7 | 7.59 | 1.36 | 1.31 |
| 1 | A | 407 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 630 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 1266 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 31 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 118 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 160 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 956 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 1048 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 1115 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 808 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 1291 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 2338 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 2812 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 178 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 507 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 1014 | A | C8-N7 | 7.58 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1256 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 1266 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 71 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 964 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 1008 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 247 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 260 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 543 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 1034 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 1655 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 2088 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 541 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 1017 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 31 | W | 1486 | A | C8-N7 | 7.58 | 1.36 | 1.31 |
| 1 | A | 987 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 829 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 1509 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 231 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 2297 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 2317 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 2532 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 1797 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 206 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 278 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 649 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 220 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 1189 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 2835 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 1225 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 519 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 1710 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 1 | A | 2091 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 902 | A | C8-N7 | 7.57 | 1.36 | 1.31 |
| 31 | W | 1405 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 259 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 31 | W | 1289 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 584 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 1194 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 31 | W | 974 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 1314 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 1654 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 1989 | A | C8-N7 | 7.56 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2462 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 958 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 1312 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 2618 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 2 | B | 27 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 31 | W | 463 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 31 | W | 522 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 31 | W | 1179 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 1617 | A | C8-N7 | 7.56 | 1.36 | 1.31 |
| 1 | A | 354 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1055 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 2595 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 725 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 125 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 828 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1534 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 2594 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1743 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1816 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 2042 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 618 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 886 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 51 | y | 58 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 616 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 274 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 486 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1672 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 796 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 1176 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 124 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1036 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1445 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1614 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1663 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 1722 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 1 | A | 2351 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 2 | B | 46 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 1077 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 1435 | A | C8-N7 | 7.55 | 1.36 | 1.31 |
| 31 | W | 423 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 12 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 91 | A | C8-N7 | 7.54 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2421 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 617 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 948 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 1523 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 65 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 279 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 1381 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 10 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 1197 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 975 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 1185 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 1238 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 275 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 339 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 2547 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 2560 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 724 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 51 | 1 | 41 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 970 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 1700 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 372 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 2034 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 644 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 978 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 1028 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 31 | W | 1120 | A | C8-N7 | 7.54 | 1.36 | 1.31 |
| 1 | A | 1175 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1357 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1541 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 31 | W | 799 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 974 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1019 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1388 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 31 | W | 114 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 31 | W | 329 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 31 | W | 959 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 31 | W | 440 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 84 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 222 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1679 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1735 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 31 | W | 173 | A | C8-N7 | 7.53 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1014 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1585 | A | C8-N7 | 7.53 | 1.36 | 1.31 |
| 1 | A | 1850 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 128 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 947 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 1090 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 1248 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 851 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 1230 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 1426 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 875 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 1480 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 1097 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 364 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 638 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 31 | W | 1031 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 2389 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 2907 | A | C8-N7 | 7.52 | 1.36 | 1.31 |
| 1 | A | 162 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 904 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 1210 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 1961 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2066 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2629 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 321 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 477 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 193 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 475 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 1202 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 1258 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 1913 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2694 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 696 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2507 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2762 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2876 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 211 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 361 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 529 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 532 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 737 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 740 | A | C8-N7 | 7.51 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1029 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 1096 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 2845 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 236 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 611 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 703 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 31 | W | 1528 | A | C8-N7 | 7.51 | 1.36 | 1.31 |
| 1 | A | 847 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 1724 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 659 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 156 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 774 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 2262 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 195 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 2 | B | 25 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 281 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 346 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 504 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 1734 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 314 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 777 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 882 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 462 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 500 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 758 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 1092 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 1885 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 592 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 917 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 178 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 337 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 369 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 1900 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 2455 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 1341 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 31 | W | 1517 | A | C8-N7 | 7.50 | 1.36 | 1.31 |
| 1 | A | 343 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 653 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 870 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1699 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 2298 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 34 | A | C8-N7 | 7.49 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1348 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 437 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1141 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 968 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 1463 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 41 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 763 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1323 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1685 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1957 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 2606 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 793 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 969 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 947 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1721 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 376 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 234 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 1271 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 373 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 770 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1553 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 2417 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 2804 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 2851 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 35 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 31 | W | 1479 | A | C8-N7 | 7.49 | 1.36 | 1.31 |
| 1 | A | 1126 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 1244 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 1809 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 31 | W | 1112 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 73 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 236 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 1222 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 31 | W | 715 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 31 | W | 1407 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 418 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 1877 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 2381 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 31 | W | 390 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 31 | W | 518 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 1942 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 2387 | A | C8-N7 | 7.48 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2663 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 61 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 198 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 572 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 889 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 1945 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 2810 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 2846 | A | C8-N7 | 7.48 | 1.36 | 1.31 |
| 1 | A | 325 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 412 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 449 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1456 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1583 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 161 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 690 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 1470 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 230 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 667 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 404 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1235 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1627 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 133 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1556 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1812 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 2831 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 120 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 1092 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1421 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1802 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 2719 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 1132 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 55 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 31 | W | 711 | A | C8-N7 | 7.47 | 1.36 | 1.31 |
| 1 | A | 438 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 1631 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 2044 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 2734 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 2 | B | 51 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 31 | W | 94 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 548 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 699 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 2869 | A | C8-N7 | 7.46 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1103 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 948 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 1491 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 2027 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 2303 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 31 | W | 677 | A | C8-N7 | 7.46 | 1.36 | 1.31 |
| 1 | A | 210 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 561 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 2049 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 2924 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 31 | W | 12 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 31 | W | 1206 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 302 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 882 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 1483 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 2912 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 31 | W | 1456 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 31 | W | 74 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 31 | W | 828 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 2383 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 2463 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 31 | W | 581 | A | C8-N7 | 7.45 | 1.36 | 1.31 |
| 1 | A | 593 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 1918 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 2590 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 31 | W | 604 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 1848 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 2032 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 31 | W | 81 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 31 | W | 1155 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 1485 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 31 | W | 771 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 549 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 2 | B | 43 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 616 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 830 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 1054 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 1326 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 2316 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 2461 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 2 | B | 64 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 51 | 1 | 58 | A | C8-N7 | 7.44 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 811 | A | C8-N7 | 7.44 | 1.36 | 1.31 |
| 1 | A | 38 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 268 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1027 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1667 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1675 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1929 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1930 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1947 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 382 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 913 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 1205 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1286 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 2844 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 512 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 1272 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1174 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 2787 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 1236 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 1283 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 790 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1287 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 2848 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 270 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 51 | y | 9 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 683 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1056 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1072 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 459 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 31 | W | 1245 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 324 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1325 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 1606 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 2616 | A | C8-N7 | 7.43 | 1.36 | 1.31 |
| 1 | A | 876 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 1653 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 823 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 1296 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 568 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 605 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 672 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 1745 | A | C8-N7 | 7.42 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2100 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 2276 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 171 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 318 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 715 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 1375 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 209 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 287 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 344 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 1294 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 1233 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 2464 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 2770 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 31 | W | 1234 | A | C8-N7 | 7.42 | 1.36 | 1.31 |
| 1 | A | 2904 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 31 | W | 1222 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 194 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 31 | W | 381 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 31 | W | 1284 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 2018 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 2700 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 31 | W | 985 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 31 | W | 1513 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 13 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 1046 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 1131 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 31 | W | 210 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 753 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 1392 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 53 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 722 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 1831 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 1838 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 2059 | A | C8-N7 | 7.41 | 1.36 | 1.31 |
| 1 | A | 1243 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 1956 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 2837 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 31 | W | 844 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 459 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 971 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 1569 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 2511 | A | C8-N7 | 7.40 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1288 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 1888 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 1981 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 353 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 622 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 31 | W | 389 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 51 | 1 | 24 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 108 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 206 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 525 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 1791 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 2357 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 31 | W | 569 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 31 | W | 225 | A | C8-N7 | 7.40 | 1.36 | 1.31 |
| 1 | A | 769 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 1335 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 2570 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 51 | 1 | 76 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 469 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 746 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 31 | W | 879 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 637 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 894 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 2497 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 31 | W | 776 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 51 | y | 14 | A | C8-N7 | 7.39 | 1.36 | 1.31 |
| 1 | A | 678 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 2454 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 31 | W | 1147 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 326 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 31 | W | 1260 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 31 | W | 1510 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 1100 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 51 | 1 | 14 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 229 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 2708 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 705 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 1 | A | 2482 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 31 | W | 335 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 31 | W | 475 | A | C8-N7 | 7.38 | 1.36 | 1.31 |
| 2 | B | 71 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 31 | W | 542 | A | C8-N7 | 7.37 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 431 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 1593 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 2 | B | 56 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 31 | W | 685 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 31 | W | 1384 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 2790 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 2658 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 31 | W | 816 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 390 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 619 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 727 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 1638 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 2369 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 31 | W | 301 | A | C8-N7 | 7.37 | 1.36 | 1.31 |
| 1 | A | 835 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 1116 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 1542 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 2302 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 2786 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 31 | W | 1016 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 31 | W | 1490 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 51 | 1 | 9 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 2854 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 1316 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 1424 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 1965 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 31 | W | 462 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 31 | W | 919 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 31 | W | 984 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 2805 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 31 | W | 1189 | A | C8-N7 | 7.36 | 1.36 | 1.31 |
| 1 | A | 2026 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 1 | A | 2296 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 1 | A | 28 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 1 | A | 1464 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 31 | W | 1004 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 1 | A | 1075 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 1 | A | 1723 | A | C8-N7 | 7.35 | 1.36 | 1.31 |
| 1 | A | 2390 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 943 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 2365 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 2517 | A | C8-N7 | 7.34 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1254 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 1581 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 2782 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 2 | B | 97 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 31 | W | 993 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 31 | W | 1111 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 1284 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 31 | W | 1403 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 1901 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 31 | W | 1143 | A | C8-N7 | 7.34 | 1.36 | 1.31 |
| 1 | A | 225 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 623 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1221 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1260 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 2735 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1998 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1047 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1461 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 634 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 868 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1265 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1398 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 31 | W | 72 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 677 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 2794 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 736 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 1999 | A | C8-N7 | 7.33 | 1.36 | 1.31 |
| 1 | A | 2327 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 2887 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 1767 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 31 | W | 204 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 31 | W | 838 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 31 | W | 107 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 1686 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 1727 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 2270 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 31 | W | 684 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 31 | W | 911 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 51 | 1 | 70 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 117 | A | C8-N7 | 7.32 | 1.36 | 1.31 |
| 1 | A | 1059 | A | C8-N7 | 7.31 | 1.36 | 1.31 |
| 1 | A | 1149 | A | C8-N7 | 7.31 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 933 | A | C8-N7 | 7.31 | 1.36 | 1.31 |
| 1 | A | 2571 | A | C8-N7 | 7.31 | 1.36 | 1.31 |
| 1 | A | 2862 | A | C8-N7 | 7.31 | 1.36 | 1.31 |
| 31 | W | 555 | A | C8-N7 | 7.31 | 1.36 | 1.31 |
| 1 | A | 1832 | A | C8-N7 | 7.30 | 1.36 | 1.31 |
| 1 | A | 1253 | A | C8-N7 | 7.30 | 1.36 | 1.31 |
| 1 | A | 1562 | A | C8-N7 | 7.30 | 1.36 | 1.31 |
| 31 | W | 337 | A | C8-N7 | 7.30 | 1.36 | 1.31 |
| 1 | A | 1423 | A | C8-N7 | 7.30 | 1.36 | 1.31 |
| 31 | W | 496 | A | C8-N7 | 7.30 | 1.36 | 1.31 |
| 1 | A | 2689 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 51 | y | 24 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 1 | A | 517 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 1 | A | 90 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 31 | W | 918 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 31 | W | 727 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 1 | A | 1404 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 31 | W | 1493 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 51 | y | 70 | A | C8-N7 | 7.29 | 1.36 | 1.31 |
| 1 | A | 278 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 1 | A | 1608 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 1 | A | 2441 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 2 | B | 20 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 1 | A | 630 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 31 | W | 397 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 1 | A | 1524 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 31 | W | 519 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 1 | A | 2340 | A | C8-N7 | 7.28 | 1.36 | 1.31 |
| 1 | A | 95 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 1 | A | 1042 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 1 | A | 1858 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 1 | A | 1575 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 1 | A | 1768 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 31 | W | 1252 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 31 | W | 1315 | A | C8-N7 | 7.27 | 1.36 | 1.31 |
| 1 | A | 1025 | A | C8-N7 | 7.26 | 1.36 | 1.31 |
| 1 | A | 2704 | A | C8-N7 | 7.26 | 1.36 | 1.31 |
| 1 | A | 993 | A | C8-N7 | 7.26 | 1.36 | 1.31 |
| 31 | W | 979 | A | C8-N7 | 7.26 | 1.36 | 1.31 |
| 31 | W | 1024 | A | C8-N7 | 7.26 | 1.36 | 1.31 |
| 1 | A | 56 | A | C8-N7 | 7.26 | 1.36 | 1.31 |
| 1 | A | 355 | A | C8-N7 | 7.26 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 600 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 1 | A | 1619 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 1 | A | 724 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 1 | A | 1760 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 31 | W | 883 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 31 | W | 987 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 1 | A | 2358 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 1 | A | 258 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 31 | W | 572 | A | C8-N7 | 7.25 | 1.36 | 1.31 |
| 1 | A | 2436 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 31 | W | 1161 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 31 | W | 1383 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 1 | A | 1073 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 1 | A | 578 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 1 | A | 305 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 1 | A | 866 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 1 | A | 1517 | A | C8-N7 | 7.24 | 1.36 | 1.31 |
| 1 | A | 1714 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 2106 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 254 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 307 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 1691 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 2 | B | 13 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 518 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 1520 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 1713 | A | C8-N7 | 7.23 | 1.36 | 1.31 |
| 1 | A | 913 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 31 | W | 548 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 31 | W | 790 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 31 | W | 705 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 1 | A | 2405 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 1 | A | 1618 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 1 | A | 1477 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 1 | A | 1813 | A | C8-N7 | 7.22 | 1.36 | 1.31 |
| 1 | A | 910 | A | C8-N7 | 7.21 | 1.36 | 1.31 |
| 1 | A | 1620 | A | C8-N7 | 7.21 | 1.36 | 1.31 |
| 1 | A | 2043 | A | C8-N7 | 7.20 | 1.36 | 1.31 |
| 1 | A | 2111 | A | C8-N7 | 7.20 | 1.36 | 1.31 |
| 1 | A | 538 | A | C8-N7 | 7.20 | 1.36 | 1.31 |
| 1 | A | 1021 | A | C8-N7 | 7.19 | 1.36 | 1.31 |
| 31 | W | 1442 | A | C8-N7 | 7.19 | 1.36 | 1.31 |
| 1 | A | 140 | A | C8-N7 | 7.18 | 1.36 | 1.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1967 | A | C8-N7 | 7.18 | 1.36 | 1.31 |
| 1 | A | 1453 | A | C8-N7 | 7.18 | 1.36 | 1.31 |
| 1 | A | 689 | A | C8-N7 | 7.17 | 1.36 | 1.31 |
| 2 | B | 11 | A | C8-N7 | 7.17 | 1.36 | 1.31 |
| 31 | W | 1478 | A | C8-N7 | 7.17 | 1.36 | 1.31 |
| 31 | W | 460 | A | C8-N7 | 7.17 | 1.36 | 1.31 |
| 1 | A | 1680 | A | C8-N7 | 7.16 | 1.36 | 1.31 |
| 1 | A | 661 | A | C8-N7 | 7.16 | 1.36 | 1.31 |
| 1 | A | 2827 | A | C8-N7 | 7.16 | 1.36 | 1.31 |
| 1 | A | 574 | A | C8-N7 | 7.16 | 1.36 | 1.31 |
| 1 | A | 2402 | A | C8-N7 | 7.15 | 1.36 | 1.31 |
| 1 | A | 752 | A | C8-N7 | 7.15 | 1.36 | 1.31 |
| 1 | A | 1709 | A | C8-N7 | 7.15 | 1.36 | 1.31 |
| 1 | A | 1648 | A | C8-N7 | 7.15 | 1.36 | 1.31 |
| 31 | W | 405 | A | C8-N7 | 7.15 | 1.36 | 1.31 |
| 1 | A | 1820 | A | C8-N7 | 7.14 | 1.36 | 1.31 |
| 1 | A | 1776 | A | C8-N7 | 7.14 | 1.36 | 1.31 |
| 31 | W | 572 | A | N3-C4 | 7.14 | 1.39 | 1.34 |
| 1 | A | 690 | A | C8-N7 | 7.14 | 1.36 | 1.31 |
| 1 | A | 110 | A | C8-N7 | 7.13 | 1.36 | 1.31 |
| 31 | W | 57 | A | C8-N7 | 7.13 | 1.36 | 1.31 |
| 31 | W | 1427 | A | C8-N7 | 7.13 | 1.36 | 1.31 |
| 1 | A | 1442 | A | C8-N7 | 7.13 | 1.36 | 1.31 |
| 31 | W | 76 | A | C8-N7 | 7.13 | 1.36 | 1.31 |
| 1 | A | 551 | A | C8-N7 | 7.12 | 1.36 | 1.31 |
| 1 | A | 1094 | A | C8-N7 | 7.11 | 1.36 | 1.31 |
| 1 | A | 1103 | A | C8-N7 | 7.11 | 1.36 | 1.31 |
| 1 | A | 226 | A | C8-N7 | 7.09 | 1.36 | 1.31 |
| 1 | A | 1393 | A | C8-N7 | 7.09 | 1.36 | 1.31 |
| 1 | A | 2468 | A | C8-N7 | 7.09 | 1.36 | 1.31 |
| 1 | A | 956 | A | C8-N7 | 7.08 | 1.36 | 1.31 |
| 31 | W | 1065 | A | C8-N7 | 7.08 | 1.36 | 1.31 |
| 31 | W | 996 | A | C8-N7 | 7.08 | 1.36 | 1.31 |
| 1 | A | 1839 | A | C8-N7 | 7.07 | 1.36 | 1.31 |
| 1 | A | 1006 | A | C8-N7 | 7.07 | 1.36 | 1.31 |
| 1 | A | 1691 | A | N3-C4 | 7.07 | 1.39 | 1.34 |
| 1 | A | 1714 | A | N3-C4 | 7.05 | 1.39 | 1.34 |
| 1 | A | 2395 | A | C8-N7 | 7.03 | 1.36 | 1.31 |
| 31 | W | 1308 | A | C8-N7 | 7.02 | 1.36 | 1.31 |
| 1 | A | 559 | A | C8-N7 | 7.02 | 1.36 | 1.31 |
| 1 | A | 935 | A | C8-N7 | 7.02 | 1.36 | 1.31 |
| 1 | A | 1885 | A | N3-C4 | 7.02 | 1.39 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1190 | A | C8-N7 | 6.97 | 1.36 | 1.31 |
| 1 | A | 527 | A | C8-N7 | 6.96 | 1.36 | 1.31 |
| 31 | W | 99 | A | C8-N7 | 6.96 | 1.36 | 1.31 |
| 1 | A | 52 | A | C8-N7 | 6.96 | 1.36 | 1.31 |
| 31 | W | 423 | A | N3-C4 | 6.96 | 1.39 | 1.34 |
| 31 | W | 1065 | A | N3-C4 | 6.96 | 1.39 | 1.34 |
| 31 | W | 150 | A | N3-C4 | 6.95 | 1.39 | 1.34 |
| 31 | W | 993 | A | N3-C4 | 6.95 | 1.39 | 1.34 |
| 31 | W | 62 | A | N3-C4 | 6.94 | 1.39 | 1.34 |
| 1 | A | 44 | A | N3-C4 | 6.93 | 1.39 | 1.34 |
| 31 | W | 1234 | A | N3-C4 | 6.93 | 1.39 | 1.34 |
| 1 | A | 530 | A | N3-C4 | 6.93 | 1.39 | 1.34 |
| 2 | B | 99 | A | C8-N7 | 6.92 | 1.36 | 1.31 |
| 1 | A | 2786 | A | N3-C4 | 6.92 | 1.39 | 1.34 |
| 1 | A | 1900 | A | N3-C4 | 6.92 | 1.39 | 1.34 |
| 1 | A | 2459 | A | C8-N7 | 6.92 | 1.36 | 1.31 |
| 1 | A | 1130 | A | N3-C4 | 6.91 | 1.39 | 1.34 |
| 1 | A | 1025 | A | N3-C4 | 6.90 | 1.39 | 1.34 |
| 1 | A | 1928 | A | C8-N7 | 6.90 | 1.36 | 1.31 |
| 1 | A | 2027 | A | N3-C4 | 6.90 | 1.39 | 1.34 |
| 31 | W | 1308 | A | N3-C4 | 6.90 | 1.39 | 1.34 |
| 1 | A | 732 | A | N3-C4 | 6.89 | 1.39 | 1.34 |
| 1 | A | 2349 | A | N3-C4 | 6.89 | 1.39 | 1.34 |
| 31 | W | 160 | A | N3-C4 | 6.89 | 1.39 | 1.34 |
| 31 | W | 1278 | A | C8-N7 | 6.88 | 1.36 | 1.31 |
| 51 | y | 37 | A | C8-N7 | 6.88 | 1.36 | 1.31 |
| 1 | A | 774 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 1 | A | 1094 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 31 | W | 151 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 1 | A | 2059 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 1 | A | 1760 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 1 | A | 2812 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 1 | A | 1942 | A | N3-C4 | 6.87 | 1.39 | 1.34 |
| 1 | A | 168 | A | C8-N7 | 6.86 | 1.36 | 1.31 |
| 31 | W | 507 | A | N3-C4 | 6.86 | 1.39 | 1.34 |
| 1 | A | 1222 | A | N3-C4 | 6.86 | 1.39 | 1.34 |
| 31 | W | 1256 | A | N3-C4 | 6.86 | 1.39 | 1.34 |
| 1 | A | 1134 | A | N3-C4 | 6.86 | 1.39 | 1.34 |
| 1 | A | 1302 | A | N3-C4 | 6.86 | 1.39 | 1.34 |
| 31 | W | 405 | A | N3-C4 | 6.84 | 1.39 | 1.34 |
| 31 | W | 685 | A | N3-C4 | 6.84 | 1.39 | 1.34 |
| 1 | A | 922 | A | N3-C4 | 6.84 | 1.39 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1134 | A | C8-N7 | 6.83 | 1.36 | 1.31 |
| 31 | W | 705 | A | N3-C4 | 6.83 | 1.39 | 1.34 |
| 1 | A | 2560 | A | N3-C4 | 6.83 | 1.39 | 1.34 |
| 51 | 1 | 24 | A | N3-C4 | 6.83 | 1.39 | 1.34 |
| 1 | A | 2066 | A | N3-C4 | 6.83 | 1.39 | 1.34 |
| 1 | A | 2924 | A | N3-C4 | 6.83 | 1.39 | 1.34 |
| 31 | W | 391 | A | C8-N7 | 6.83 | 1.36 | 1.31 |
| 31 | W | 838 | A | N3-C4 | 6.82 | 1.39 | 1.34 |
| 1 | A | 2407 | A | C8-N7 | 6.82 | 1.36 | 1.31 |
| 1 | A | 2358 | A | N3-C4 | 6.82 | 1.39 | 1.34 |
| 31 | W | 1147 | A | N3-C4 | 6.82 | 1.39 | 1.34 |
| 31 | W | 1294 | A | N3-C4 | 6.81 | 1.39 | 1.34 |
| 1 | A | 2862 | A | N3-C4 | 6.81 | 1.39 | 1.34 |
| 1 | A | 2831 | A | N3-C4 | 6.81 | 1.39 | 1.34 |
| 1 | A | 2691 | A | C8-N7 | 6.80 | 1.36 | 1.31 |
| 1 | A | 2339 | A | N3-C4 | 6.80 | 1.39 | 1.34 |
| 1 | A | 324 | A | N3-C4 | 6.80 | 1.39 | 1.34 |
| 1 | A | 373 | A | N3-C4 | 6.80 | 1.39 | 1.34 |
| 1 | A | 2383 | A | N3-C4 | 6.80 | 1.39 | 1.34 |
| 2 | B | 20 | A | N3-C4 | 6.79 | 1.39 | 1.34 |
| 2 | B | 64 | A | N3-C4 | 6.79 | 1.39 | 1.34 |
| 31 | W | 202 | A | N3-C4 | 6.79 | 1.39 | 1.34 |
| 1 | A | 2405 | A | N3-C4 | 6.79 | 1.39 | 1.34 |
| 1 | A | 1326 | A | N3-C4 | 6.79 | 1.39 | 1.34 |
| 1 | A | 278 | A | N3-C4 | 6.78 | 1.39 | 1.34 |
| 31 | W | 433 | A | N3-C4 | 6.78 | 1.39 | 1.34 |
| 1 | A | 2694 | A | N3-C4 | 6.78 | 1.39 | 1.34 |
| 31 | W | 308 | A | C8-N7 | 6.78 | 1.36 | 1.31 |
| 1 | A | 1883 | A | C8-N7 | 6.78 | 1.36 | 1.31 |
| 1 | A | 2869 | A | N3-C4 | 6.78 | 1.39 | 1.34 |
| 31 | W | 1024 | A | N3-C4 | 6.78 | 1.39 | 1.34 |
| 31 | W | 1178 | A | N3-C4 | 6.78 | 1.39 | 1.34 |
| 1 | A | 2845 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 1 | A | 1945 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 31 | W | 173 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 31 | W | 1490 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 1 | A | 2447 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 31 | W | 1252 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 1 | A | 307 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 1 | A | 2338 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 31 | W | 799 | A | N3-C4 | 6.77 | 1.39 | 1.34 |
| 31 | W | 1054 | A | N3-C4 | 6.77 | 1.39 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 679 | A | C8-N7 | 6.76 | 1.36 | 1.31 |
| 1 | A | 2505 | A | N3-C4 | 6.76 | 1.39 | 1.34 |
| 31 | W | 1435 | A | N3-C4 | 6.76 | 1.39 | 1.34 |
| 1 | A | 526 | A | N3-C4 | 6.76 | 1.39 | 1.34 |
| 1 | A | 673 | A | C8-N7 | 6.76 | 1.36 | 1.31 |
| 1 | A | 1562 | A | N3-C4 | 6.76 | 1.39 | 1.34 |
| 1 | A | 339 | A | N3-C4 | 6.75 | 1.39 | 1.34 |
| 1 | A | 913 | A | N3-C4 | 6.75 | 1.39 | 1.34 |
| 31 | W | 948 | A | N3-C4 | 6.75 | 1.39 | 1.34 |
| 1 | A | 2700 | A | N3-C4 | 6.75 | 1.39 | 1.34 |
| 1 | A | 2844 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 1 | A | 1506 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 31 | W | 114 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 1 | A | 1483 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 31 | W | 1155 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 1 | A | 1556 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 1 | A | 1877 | A | N3-C4 | 6.75 | 1.38 | 1.34 |
| 1 | A | 935 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 90 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 1814 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 2893 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 2 | B | 18 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 910 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 970 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 407 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 345 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 2898 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 51 | y | 41 | A | N3-C4 | 6.74 | 1.38 | 1.34 |
| 1 | A | 543 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 1 | A | 2402 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 31 | W | 541 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 31 | W | 777 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 31 | W | 875 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 31 | W | 195 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 1 | A | 952 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 1 | A | 1456 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 1 | A | 1677 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 31 | W | 1288 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 2 | B | 71 | A | N3-C4 | 6.73 | 1.38 | 1.34 |
| 1 | A | 2827 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 753 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 1316 | A | N3-C4 | 6.72 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 2 | B | 46 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 31 | W | 1026 | A | C8-N7 | 6.72 | 1.36 | 1.31 |
| 51 | y | 23 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 51 | 1 | 23 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 449 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 95 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 2854 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 31 | W | 61 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 1464 | A | N3-C4 | 6.72 | 1.38 | 1.34 |
| 1 | A | 1743 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 51 | y | 9 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 226 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 634 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 2778 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 2 | B | 11 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 31 | W | 1017 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 281 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 559 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 31 | W | 364 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 31 | W | 404 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 51 | y | 44 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 575 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 1006 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 1113 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 1585 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 1700 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 31 | W | 978 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 2030 | A | N3-C4 | 6.71 | 1.38 | 1.34 |
| 1 | A | 781 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 2885 | A | C8-N7 | 6.70 | 1.36 | 1.31 |
| 31 | W | 81 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 130 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 1308 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 1360 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 1392 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 124 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 593 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 2047 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 2511 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 2916 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 31 | W | 1128 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 31 | W | 1327 | A | N3-C4 | 6.70 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 947 | A | N3-C4 | 6.70 | 1.38 | 1.34 |
| 1 | A | 2571 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 6 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 185 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 524 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 867 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 1710 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 31 | W | 618 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 31 | W | 987 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 31 | W | 1512 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 578 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 1144 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 51 | y | 24 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 31 | W | 439 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 229 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 31 | W | 996 | A | N3-C4 | 6.69 | 1.38 | 1.34 |
| 1 | A | 1914 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 2480 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 1906 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 1305 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 1381 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 2461 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 2722 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 31 | W | 1509 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 1655 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 948 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 31 | W | 1092 | A | N3-C4 | 6.68 | 1.38 | 1.34 |
| 1 | A | 429 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 500 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 31 | W | 1348 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 518 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 2 | B | 13 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 330 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 1615 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 1631 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 1858 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 31 | W | 266 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 2356 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 1524 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 1 | A | 1533 | A | N3-C4 | 6.67 | 1.38 | 1.34 |
| 31 | W | 34 | A | N3-C4 | 6.66 | 1.38 | 1.34 |
| 31 | W | 1320 | A | N3-C4 | 6.66 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 999 | A | N3-C4 | 6.66 | 1.38 | 1.34 |
| 31 | W | 321 | A | N3-C4 | 6.66 | 1.38 | 1.34 |
| 1 | A | 326 | A | N3-C4 | 6.66 | 1.38 | 1.34 |
| 31 | W | 975 | A | N3-C4 | 6.66 | 1.38 | 1.34 |
| 31 | W | 1056 | A | N3-C4 | 6.66 | 1.38 | 1.34 |
| 1 | A | 715 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 600 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 1876 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 1375 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 2708 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 31 | W | 31 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 592 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 1258 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 1398 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 31 | W | 53 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 1709 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 2830 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 31 | W | 902 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 31 | W | 1358 | A | N3-C4 | 6.65 | 1.38 | 1.34 |
| 1 | A | 456 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 1746 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 2532 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 31 | W | 203 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 31 | W | 1026 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 31 | W | 1417 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 219 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 2365 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 2619 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 31 | W | 1493 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 168 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 618 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 353 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 1029 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 31 | W | 178 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 31 | W | 658 | A | N3-C4 | 6.64 | 1.38 | 1.34 |
| 1 | A | 762 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 529 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 899 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 1614 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 281 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 1225 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 553 | A | N3-C4 | 6.63 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 776 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 1048 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 893 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 945 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 202 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 2887 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 1442 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 1463 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 231 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 1116 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 1323 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 1 | A | 2497 | A | N3-C4 | 6.63 | 1.38 | 1.34 |
| 31 | W | 372 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 678 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 1434 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 1672 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 31 | W | 55 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 31 | W | 1405 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 61 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 2315 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 2754 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 31 | W | 1298 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 1103 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 2006 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 31 | W | 459 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 438 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 1685 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 513 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 1253 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 2627 | A | C8-N7 | 6.62 | 1.36 | 1.31 |
| 1 | A | 673 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 1426 | A | N3-C4 | 6.62 | 1.38 | 1.34 |
| 1 | A | 2407 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 2375 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 31 | W | 415 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 459 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 538 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 2044 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 2479 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 1815 | A | N3-C4 | 6.61 | 1.38 | 1.34 |
| 1 | A | 1005 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 1312 | A | N3-C4 | 6.60 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 51 | 1 | 41 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 2381 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 236 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 513 | A | C8-N7 | 6.60 | 1.36 | 1.31 |
| 1 | A | 2782 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 31 | W | 72 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 31 | W | 886 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 31 | W | 1166 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 14 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 1661 | A | C8-N7 | 6.60 | 1.36 | 1.31 |
| 1 | A | 2049 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 31 | W | 314 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 31 | W | 1004 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 1845 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 31 | W | 933 | A | N3-C4 | 6.60 | 1.38 | 1.34 |
| 1 | A | 200 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 302 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 803 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 2464 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 2 | B | 113 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 527 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 1073 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 1593 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 2317 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 2673 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 870 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 1479 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 770 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 1838 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 1654 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 1404 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 1947 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 2032 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 1 | A | 2060 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 460 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 831 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 883 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 31 | W | 1278 | A | N3-C4 | 6.59 | 1.38 | 1.34 |
| 51 | 1 | 37 | A | C8-N7 | 6.59 | 1.36 | 1.31 |
| 1 | A | 1485 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 1989 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 171 | A | N3-C4 | 6.58 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 418 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 964 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 391 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 569 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 486 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 1724 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 727 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 1540 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 1588 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 128 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 617 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 1160 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 1384 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 494 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 2042 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 474 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 31 | W | 616 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 551 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 888 | A | N3-C4 | 6.58 | 1.38 | 1.34 |
| 1 | A | 1617 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 31 | W | 462 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 31 | W | 672 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 1357 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 31 | W | 1271 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 206 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 254 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 428 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 782 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 1243 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 1998 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 31 | W | 882 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 49 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 462 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 1224 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 1490 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 31 | W | 401 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 31 | W | 1517 | A | N3-C4 | 6.57 | 1.38 | 1.34 |
| 1 | A | 1197 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 1361 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 2441 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 31 | W | 1349 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 616 | A | N3-C4 | 6.56 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2316 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 2846 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 31 | W | 67 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 31 | W | 225 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 31 | W | 1328 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 790 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 1340 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 2463 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 2662 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 2670 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 31 | W | 801 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 52 | A | N3-C4 | 6.56 | 1.38 | 1.34 |
| 1 | A | 2071 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 2330 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 94 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 99 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 491 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 314 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 1619 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 2 | B | 50 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 504 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 1451 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 519 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 525 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 622 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 974 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 1925 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 12 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 1031 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 1403 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 258 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 630 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 1188 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 1581 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 198 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 76 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 763 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 786 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 1638 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 1697 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 1 | A | 2876 | A | N3-C4 | 6.55 | 1.38 | 1.34 |
| 31 | W | 1407 | A | N3-C4 | 6.55 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2091 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 518 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 1092 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 240 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 452 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 677 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 715 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 51 | 1 | 9 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 896 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 2340 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 2468 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 548 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 619 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 542 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 1238 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 1465 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 1812 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 512 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 649 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 1620 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 1813 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 1844 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 2307 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 228 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 1222 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 31 | W | 1455 | A | N3-C4 | 6.54 | 1.38 | 1.34 |
| 1 | A | 470 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 882 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 894 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 1713 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 1941 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 1176 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 2500 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 544 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 979 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 522 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 703 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 1486 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 244 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 384 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 1260 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 2351 | A | N3-C4 | 6.53 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1179 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 31 | W | 1245 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 51 | 1 | 76 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 2629 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 2908 | A | N3-C4 | 6.53 | 1.38 | 1.34 |
| 1 | A | 1036 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1569 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1653 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 1120 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 51 | 1 | 58 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 56 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1536 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 2834 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 204 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 757 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 911 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 247 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 652 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1230 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1235 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 1210 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1421 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 1461 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 2 | B | 114 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 917 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 1140 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 769 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 2362 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 2735 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 2923 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 140 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 650 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 31 | W | 1103 | A | N3-C4 | 6.52 | 1.38 | 1.34 |
| 1 | A | 38 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 765 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 1695 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 611 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 1006 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 1437 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 51 | y | 14 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 421 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 476 | A | N3-C4 | 6.51 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 993 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 1284 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 254 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 1042 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 159 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 1132 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 956 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 646 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 1425 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 94 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 1802 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 2343 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 2900 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 438 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 1205 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 31 | W | 1528 | A | N3-C4 | 6.51 | 1.38 | 1.34 |
| 1 | A | 431 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 13 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 677 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 2 | B | 51 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1406 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1480 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 2542 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 2826 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 31 | W | 638 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 31 | W | 1456 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 31 | W | 1470 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 469 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1580 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 2106 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 31 | W | 161 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 31 | W | 1341 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1269 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1930 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1957 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 2329 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 2885 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 31 | W | 1121 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 21 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 210 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 904 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1339 | A | N3-C4 | 6.50 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1347 | A | N3-C4 | 6.50 | 1.38 | 1.34 |
| 1 | A | 1608 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 1679 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 2668 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 210 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 631 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 1386 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 2 | B | 55 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 692 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 1047 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 1504 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 2421 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 2686 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 2 | B | 102 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 504 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 1194 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 1966 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 2794 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 724 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 1427 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 73 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 537 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 866 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 120 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 475 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 31 | W | 738 | A | N3-C4 | 6.49 | 1.38 | 1.34 |
| 1 | A | 2805 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 2 | B | 76 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 31 | W | 352 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 390 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 2837 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 31 | W | 501 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 31 | W | 790 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 51 | y | 58 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 133 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 2 | B | 99 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 31 | W | 170 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 31 | W | 440 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 51 | 1 | 14 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 322 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 1084 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 1126 | A | N3-C4 | 6.48 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1667 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 1895 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 2740 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 1233 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 31 | W | 139 | A | N3-C4 | 6.48 | 1.38 | 1.34 |
| 1 | A | 584 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 705 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 2302 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 1434 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 479 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 727 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 991 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1066 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1313 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1477 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1774 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1789 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1797 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 371 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 456 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 623 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 532 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 125 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 279 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 355 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1287 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1788 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 2295 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 2440 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 57 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1699 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 1453 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 118 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 234 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 923 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 1259 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 31 | W | 1297 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 51 | 1 | 70 | A | N3-C4 | 6.47 | 1.38 | 1.34 |
| 1 | A | 139 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 475 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1982 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 2627 | A | N3-C4 | 6.46 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 2 | B | 44 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 568 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 771 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 824 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 862 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 1014 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1967 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 644 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 752 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1541 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1592 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1606 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 2902 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 2904 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 879 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 1077 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 1333 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 1502 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1405 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 2276 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 985 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 1207 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1277 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 721 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 154 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 1189 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 117 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 837 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 173 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 189 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 31 | W | 1266 | A | N3-C4 | 6.46 | 1.38 | 1.34 |
| 1 | A | 166 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 376 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1517 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 357 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 724 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 225 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1767 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 129 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 142 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 918 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1175 | A | N3-C4 | 6.45 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 344 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 361 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 1383 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 978 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1008 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1579 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 2570 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1123 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 1111 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 126 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 835 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1056 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1115 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1516 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1555 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1776 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1839 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 2661 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 2719 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 52 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 397 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 844 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 1102 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 31 | W | 1419 | A | N3-C4 | 6.45 | 1.38 | 1.34 |
| 1 | A | 1190 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 2100 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 2298 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 2689 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 333 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 828 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 84 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 829 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 171 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 870 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 958 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1202 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1424 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1848 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 2590 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 1488 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 1503 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 868 | A | N3-C4 | 6.44 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1534 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 661 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 849 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1097 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1948 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 1289 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1210 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 1286 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 31 | W | 457 | A | N3-C4 | 6.44 | 1.38 | 1.34 |
| 1 | A | 437 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 1161 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 2389 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 422 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 1541 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 51 | y | 70 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 1663 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 1735 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 2083 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 2364 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 825 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 1221 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 1346 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 2369 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 758 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 793 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 144 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 412 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 722 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 959 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 1422 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 333 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 699 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 548 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 268 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 605 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 913 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 1112 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 31 | W | 1180 | A | N3-C4 | 6.43 | 1.38 | 1.34 |
| 1 | A | 1174 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 1553 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 2052 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 274 | A | N3-C4 | 6.42 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2477 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 519 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 2810 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 65 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 1734 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 2704 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 390 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 419 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 41 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 2088 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 1 | A | 2663 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 282 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 367 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 679 | A | N3-C4 | 6.42 | 1.38 | 1.34 |
| 31 | W | 1270 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 199 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 1532 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 2851 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 816 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 736 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 1473 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 1995 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 2000 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 2777 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 2912 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 28 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 35 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 671 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 207 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 561 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 1027 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 389 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 500 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 1206 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 549 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 2517 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 31 | W | 296 | A | N3-C4 | 6.41 | 1.38 | 1.34 |
| 1 | A | 2593 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 2750 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 31 | W | 984 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 31 | W | 1050 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 2643 | A | N3-C4 | 6.40 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 74 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 31 | W | 236 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 987 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 1100 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 1956 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 31 | W | 107 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 647 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 31 | W | 1355 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 917 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 31 | W | 1200 | A | N3-C4 | 6.40 | 1.38 | 1.34 |
| 1 | A | 162 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 260 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 1059 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 1575 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 31 | W | 684 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 31 | W | 713 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 91 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 1675 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 2303 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 31 | W | 604 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 222 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 1883 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 305 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 889 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 1542 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 31 | W | 1247 | A | N3-C4 | 6.39 | 1.38 | 1.34 |
| 1 | A | 325 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1131 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1850 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 2762 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 224 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 517 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 31 | W | 10 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 31 | W | 711 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 329 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 354 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1179 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1254 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1335 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1680 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1809 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 31 | W | 651 | A | N3-C4 | 6.38 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1442 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 2919 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 2 | B | 56 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 31 | W | 190 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 821 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 2395 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 2907 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 31 | W | 1272 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 193 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 31 | W | 737 | A | N3-C4 | 6.38 | 1.38 | 1.34 |
| 1 | A | 1019 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 2790 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 108 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 1149 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 31 | W | 659 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 31 | W | 1257 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 31 | W | 381 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 31 | W | 463 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 179 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 1075 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 1784 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 1818 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 31 | W | 762 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 161 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 265 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 496 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 957 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 2807 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 31 | W | 485 | A | N3-C4 | 6.37 | 1.38 | 1.34 |
| 1 | A | 64 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 1918 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 71 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 702 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 2691 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 572 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 1014 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 31 | W | 1185 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 118 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 364 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 31 | W | 508 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 31 | W | 925 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 31 | W | 1443 | A | N3-C4 | 6.36 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2454 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 2860 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 31 | W | 1261 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 31 | W | 1466 | A | N3-C4 | 6.36 | 1.38 | 1.34 |
| 1 | A | 273 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 337 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 830 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 582 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 704 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 786 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 1254 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 448 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 1583 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 1928 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 2 | B | 17 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 2 | B | 37 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 270 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 506 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 1601 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 1028 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 1265 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 31 | W | 823 | A | N3-C4 | 6.35 | 1.38 | 1.34 |
| 1 | A | 1965 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2080 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2482 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2734 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 31 | W | 556 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 31 | W | 1260 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 31 | W | 1315 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 156 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1055 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2436 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 150 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 389 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1723 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2417 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 689 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1020 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1831 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1882 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2390 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2770 | A | N3-C4 | 6.34 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 232 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 31 | W | 329 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 31 | W | 1115 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 31 | W | 1296 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1686 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 1961 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 2498 | A | N3-C4 | 6.34 | 1.38 | 1.34 |
| 1 | A | 259 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 1627 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 1888 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 2683 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 1248 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 342 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 337 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 683 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 658 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 1142 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 436 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 1325 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 2357 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 2526 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 2 | B | 43 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 306 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 1523 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 271 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 968 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 102 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 2459 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 669 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 31 | W | 1161 | A | N3-C4 | 6.33 | 1.38 | 1.34 |
| 1 | A | 1096 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 2270 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 1236 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 391 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 1393 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 1905 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 1816 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 2087 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 2769 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 18 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 301 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 1284 | A | N3-C4 | 6.32 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1157 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 1768 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 555 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 1197 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 110 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 117 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 2594 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 2 | B | 39 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 496 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 31 | W | 1510 | A | N3-C4 | 6.32 | 1.38 | 1.34 |
| 1 | A | 851 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 768 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 67 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 582 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 2262 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 2296 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 208 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 251 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 1188 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 477 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 969 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 2595 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 791 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 908 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 1491 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 2387 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 2848 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 581 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 31 | W | 811 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 956 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 1141 | A | N3-C4 | 6.31 | 1.38 | 1.34 |
| 1 | A | 369 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 847 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 1003 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 1314 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 31 | W | 1016 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 828 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 31 | W | 287 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 1054 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 31 | W | 796 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 723 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 2767 | A | N3-C4 | 6.30 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 290 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 31 | W | 1369 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 51 | y | 21 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 1072 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 31 | W | 928 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 31 | W | 1133 | A | N3-C4 | 6.30 | 1.38 | 1.34 |
| 1 | A | 1721 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 2007 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 808 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 1021 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 1119 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 28 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 2406 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 31 | W | 335 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 140 | A | N3-C4 | 6.29 | 1.38 | 1.34 |
| 1 | A | 1618 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 1 | A | 1722 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 1 | A | 1913 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 31 | W | 664 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 31 | W | 1143 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 31 | W | 1359 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 1 | A | 1412 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 31 | W | 690 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 1 | A | 653 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 1 | A | 2835 | A | N3-C4 | 6.28 | 1.38 | 1.34 |
| 1 | A | 230 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 31 | W | 730 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 31 | W | 1366 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 758 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 1034 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 5 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 1791 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 31 | W | 630 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 656 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 2327 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 2804 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 51 | 1 | 44 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 1244 | A | N3-C4 | 6.27 | 1.38 | 1.34 |
| 1 | A | 971 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 2 | B | 97 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 31 | W | 258 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 1445 | A | N3-C4 | 6.26 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 2455 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 2787 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 12 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 2078 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 2 | B | 105 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 31 | W | 308 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 31 | W | 1529 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 2875 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 717 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 1078 | A | N3-C4 | 6.26 | 1.38 | 1.34 |
| 1 | A | 1388 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 1520 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 1981 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 2507 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 943 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 31 | W | 1090 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 1901 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 2616 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 1417 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 2889 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 2 | B | 27 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 31 | W | 919 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 31 | W | 1342 | A | N3-C4 | 6.25 | 1.38 | 1.34 |
| 1 | A | 1266 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 2062 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 31 | W | 775 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 194 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 490 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 547 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 31 | W | 278 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 31 | W | 1022 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 1919 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 2398 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 31 | W | 924 | A | N3-C4 | 6.24 | 1.38 | 1.34 |
| 1 | A | 176 | A | N3-C4 | 6.23 | 1.38 | 1.34 |
| 1 | A | 374 | A | N3-C4 | 6.23 | 1.38 | 1.34 |
| 1 | A | 1745 | A | N3-C4 | 6.23 | 1.38 | 1.34 |
| 31 | W | 477 | A | N3-C4 | 6.23 | 1.38 | 1.34 |
| 1 | A | 2793 | A | N3-C4 | 6.23 | 1.38 | 1.34 |
| 1 | A | 2779 | A | N3-C4 | 6.23 | 1.38 | 1.34 |
| 1 | A | 1423 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 1046 | A | N3-C4 | 6.22 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1432 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 1636 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 31 | W | 974 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 2111 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 343 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 2043 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 1499 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 31 | W | 346 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 31 | W | 1213 | A | N3-C4 | 6.22 | 1.38 | 1.34 |
| 1 | A | 1291 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 1 | A | 1727 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 31 | W | 725 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 31 | W | 947 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 31 | W | 1189 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 31 | W | 1513 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 1 | A | 876 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 1 | A | 2034 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 1 | A | 2658 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 1 | A | 2819 | A | N3-C4 | 6.21 | 1.38 | 1.34 |
| 1 | A | 2547 | A | N3-C4 | 6.20 | 1.38 | 1.34 |
| 1 | A | 53 | A | N3-C4 | 6.20 | 1.38 | 1.34 |
| 31 | W | 323 | A | N3-C4 | 6.20 | 1.38 | 1.34 |
| 1 | A | 275 | A | N3-C4 | 6.20 | 1.38 | 1.34 |
| 1 | A | 740 | A | N3-C4 | 6.20 | 1.38 | 1.34 |
| 31 | W | 1283 | A | N3-C4 | 6.20 | 1.38 | 1.34 |
| 1 | A | 388 | A | N3-C4 | 6.19 | 1.38 | 1.34 |
| 31 | W | 211 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 31 | W | 209 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 10 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 507 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 637 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 679 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 1820 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 2089 | A | N3-C4 | 6.18 | 1.38 | 1.34 |
| 1 | A | 318 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 1 | A | 690 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 31 | W | 910 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 1 | A | 746 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 1 | A | 1648 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 1 | A | 2618 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 31 | W | 206 | A | N3-C4 | 6.17 | 1.38 | 1.34 |
| 31 | W | 148 | A | N3-C4 | 6.16 | 1.38 | 1.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1061 | A | N3-C4 | 6.16 | 1.38 | 1.34 |
| 1 | A | 965 | A | N3-C4 | 6.16 | 1.38 | 1.34 |
| 1 | A | 1778 | A | N3-C4 | 6.16 | 1.38 | 1.34 |
| 1 | A | 1999 | A | N3-C4 | 6.16 | 1.38 | 1.34 |
| 31 | W | 874 | A | N3-C4 | 6.16 | 1.38 | 1.34 |
| 1 | A | 2297 | A | N3-C4 | 6.15 | 1.38 | 1.34 |
| 1 | A | 811 | A | N3-C4 | 6.15 | 1.38 | 1.34 |
| 1 | A | 574 | A | N3-C4 | 6.15 | 1.38 | 1.34 |
| 31 | W | 674 | A | N3-C4 | 6.14 | 1.38 | 1.34 |
| 31 | W | 386 | A | N3-C4 | 6.14 | 1.38 | 1.34 |
| 31 | W | 929 | A | N3-C4 | 6.14 | 1.38 | 1.34 |
| 1 | A | 2018 | A | N3-C4 | 6.14 | 1.38 | 1.34 |
| 1 | A | 2026 | A | N3-C4 | 6.13 | 1.38 | 1.34 |
| 31 | W | 592 | A | N3-C4 | 6.13 | 1.38 | 1.34 |
| 31 | W | 1372 | A | N3-C4 | 6.13 | 1.38 | 1.34 |
| 1 | A | 1067 | A | N3-C4 | 6.13 | 1.38 | 1.34 |
| 31 | W | 583 | A | N3-C4 | 6.12 | 1.38 | 1.34 |
| 1 | A | 216 | A | N3-C4 | 6.12 | 1.38 | 1.34 |
| 1 | A | 2606 | A | N3-C4 | 6.12 | 1.38 | 1.34 |
| 1 | A | 178 | A | N3-C4 | 6.12 | 1.38 | 1.34 |
| 51 | 1 | 21 | A | N3-C4 | 6.11 | 1.38 | 1.34 |
| 31 | W | 1478 | A | N3-C4 | 6.10 | 1.38 | 1.34 |
| 1 | A | 560 | A | N3-C4 | 6.10 | 1.38 | 1.34 |
| 1 | A | 1201 | A | N3-C4 | 6.09 | 1.38 | 1.34 |
| 1 | A | 659 | A | N3-C4 | 6.09 | 1.38 | 1.34 |
| 1 | A | 2462 | A | N3-C4 | 6.09 | 1.38 | 1.34 |
| 31 | W | 988 | A | N3-C4 | 6.08 | 1.38 | 1.34 |
| 1 | A | 1832 | A | N3-C4 | 6.08 | 1.38 | 1.34 |
| 31 | W | 382 | A | N3-C4 | 6.07 | 1.38 | 1.34 |
| 2 | B | 25 | A | N3-C4 | 6.06 | 1.38 | 1.34 |
| 1 | A | 220 | A | N3-C4 | 6.06 | 1.38 | 1.34 |
| 1 | A | 183 | A | N3-C4 | 6.04 | 1.38 | 1.34 |
| 1 | A | 667 | A | N3-C4 | 6.04 | 1.38 | 1.34 |
| 31 | W | 696 | A | N3-C4 | 6.04 | 1.38 | 1.34 |
| 1 | A | 2601 | A | N3-C4 | 6.02 | 1.38 | 1.34 |
| 1 | A | 1026 | A | N3-C4 | 6.01 | 1.38 | 1.34 |
| 1 | A | 1929 | A | N3-C4 | 6.01 | 1.38 | 1.34 |
| 31 | W | 743 | A | N3-C4 | 6.00 | 1.38 | 1.34 |
| 1 | A | 925 | A | N3-C4 | 5.98 | 1.38 | 1.34 |
| 1 | A | 501 | A | N3-C4 | 5.96 | 1.38 | 1.34 |
| 1 | A | 1074 | A | N3-C4 | 5.95 | 1.38 | 1.34 |
| 51 | y | 37 | A | N7-C5 | 5.91 | 1.42 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 51 | 1 | 37 | A | N7-C5 | 5.91 | 1.42 | 1.39 |
| 1 | A | 1661 | A | N7-C5 | 5.88 | 1.42 | 1.39 |
| 31 | W | 1548 | C | C2-N3 | 5.66 | 1.40 | 1.35 |
| 1 | A | 1103 | A | C2-N3 | 5.46 | 1.38 | 1.33 |
| 31 | W | 1166 | A | C2-N3 | 5.43 | 1.38 | 1.33 |
| 1 | A | 2329 | A | C2-N3 | 5.42 | 1.38 | 1.33 |
| 1 | A | 956 | A | C2-N3 | 5.41 | 1.38 | 1.33 |
| 1 | A | 513 | A | C2-N3 | 5.37 | 1.38 | 1.33 |
| 31 | W | 99 | A | C2-N3 | 5.37 | 1.38 | 1.33 |
| 1 | A | 41 | A | C2-N3 | 5.34 | 1.38 | 1.33 |
| 1 | A | 1638 | A | C2-N3 | 5.34 | 1.38 | 1.33 |
| 1 | A | 1667 | A | C2-N3 | 5.34 | 1.38 | 1.33 |
| 1 | A | 2498 | A | C2-N3 | 5.34 | 1.38 | 1.33 |
| 2 | B | 25 | A | C2-N3 | 5.34 | 1.38 | 1.33 |
| 31 | W | 933 | A | C2-N3 | 5.33 | 1.38 | 1.33 |
| 1 | A | 1999 | A | C2-N3 | 5.33 | 1.38 | 1.33 |
| 1 | A | 2683 | A | C2-N3 | 5.33 | 1.38 | 1.33 |
| 1 | A | 2844 | A | C2-N3 | 5.33 | 1.38 | 1.33 |
| 1 | A | 527 | A | C2-N3 | 5.33 | 1.38 | 1.33 |
| 1 | A | 1710 | A | C2-N3 | 5.32 | 1.38 | 1.33 |
| 1 | A | 2500 | A | C2-N3 | 5.32 | 1.38 | 1.33 |
| 1 | A | 173 | A | C2-N3 | 5.32 | 1.38 | 1.33 |
| 31 | W | 592 | A | C2-N3 | 5.32 | 1.38 | 1.33 |
| 1 | A | 2436 | A | C2-N3 | 5.31 | 1.38 | 1.33 |
| 31 | W | 1160 | A | C2-N3 | 5.31 | 1.38 | 1.33 |
| 1 | A | 2570 | A | C2-N3 | 5.31 | 1.38 | 1.33 |
| 1 | A | 634 | A | C2-N3 | 5.30 | 1.38 | 1.33 |
| 1 | A | 2629 | A | C2-N3 | 5.30 | 1.38 | 1.33 |
| 31 | W | 1278 | A | C2-N3 | 5.30 | 1.38 | 1.33 |
| 1 | A | 518 | A | C2-N3 | 5.30 | 1.38 | 1.33 |
| 1 | A | 1778 | A | C2-N3 | 5.29 | 1.38 | 1.33 |
| 31 | W | 507 | A | C2-N3 | 5.29 | 1.38 | 1.33 |
| 31 | W | 679 | A | C2-N3 | 5.29 | 1.38 | 1.33 |
| 31 | W | 1434 | A | C2-N3 | 5.29 | 1.38 | 1.33 |
| 31 | W | 1026 | A | C2-N3 | 5.29 | 1.38 | 1.33 |
| 1 | A | 1357 | A | C2-N3 | 5.28 | 1.38 | 1.33 |
| 1 | A | 1989 | A | C2-N3 | 5.28 | 1.38 | 1.33 |
| 1 | A | 2735 | A | C2-N3 | 5.28 | 1.38 | 1.33 |
| 1 | A | 549 | A | C2-N3 | 5.28 | 1.38 | 1.33 |
| 1 | A | 156 | A | C2-N3 | 5.28 | 1.38 | 1.33 |
| 1 | A | 1006 | A | C2-N3 | 5.27 | 1.38 | 1.33 |
| 1 | A | 1096 | A | C2-N3 | 5.27 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 234 | A | C2-N3 | 5.27 | 1.38 | 1.33 |
| 1 | A | 2663 | A | C2-N3 | 5.27 | 1.38 | 1.33 |
| 1 | A | 391 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 1 | A | 44 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 31 | W | 301 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 2 | B | 27 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 1 | A | 260 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 1 | A | 1768 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 51 | y | 70 | A | C2-N3 | 5.26 | 1.38 | 1.33 |
| 1 | A | 1831 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 2662 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 31 | W | 548 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 1820 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 31 | W | 433 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 1709 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 71 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 1636 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 2691 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 108 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 1945 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 2805 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 1008 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 2924 | A | C2-N3 | 5.25 | 1.38 | 1.33 |
| 1 | A | 254 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 1 | A | 656 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 1 | A | 1100 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 1 | A | 2351 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 1 | A | 1714 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 31 | W | 987 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 31 | W | 743 | A | C2-N3 | 5.24 | 1.38 | 1.33 |
| 31 | W | 1289 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 679 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 2 | B | 46 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 1901 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 2 | B | 99 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 31 | W | 308 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 870 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 2754 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 1802 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 2812 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 31 | W | 282 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 1424 | A | C2-N3 | 5.23 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1272 | A | C2-N3 | 5.23 | 1.38 | 1.33 |
| 1 | A | 56 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 1 | A | 1675 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 31 | W | 844 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 31 | W | 1140 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 1 | A | 268 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 1 | A | 1442 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 1 | A | 2875 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 31 | W | 649 | A | C2-N3 | 5.22 | 1.38 | 1.33 |
| 1 | A | 1142 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 1858 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 31 | W | 140 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 31 | W | 1188 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 1722 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 851 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 31 | W | 314 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 31 | W | 816 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 95 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 462 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 699 | A | C2-N3 | 5.21 | 1.38 | 1.33 |
| 1 | A | 1258 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 1776 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 2395 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 2885 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 559 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 692 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 2532 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 616 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 1686 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 2668 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 31 | W | 758 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 31 | W | 161 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 31 | W | 1112 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 2827 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 31 | W | 948 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 889 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 31 | W | 1016 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 31 | W | 1206 | A | C2-N3 | 5.20 | 1.38 | 1.33 |
| 1 | A | 970 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 1141 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 2049 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 2270 | A | C2-N3 | 5.19 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 1 | A | 1490 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 2889 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 31 | W | 117 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 31 | W | 918 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 31 | W | 1161 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 917 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 31 | W | 838 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 51 | 1 | 24 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 1483 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 31 | W | 1384 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 1480 | A | C2-N3 | 5.19 | 1.38 | 1.33 |
| 1 | A | 1075 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 1277 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 2907 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 1442 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 1339 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 2862 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 337 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 352 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 1784 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 943 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 705 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 777 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 1393 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 1789 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 211 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 31 | W | 768 | A | C2-N3 | 5.18 | 1.38 | 1.33 |
| 1 | A | 2407 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 2571 | A | C5-C4 | -5.17 | 1.35 | 1.38 |
| 1 | A | 2750 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 31 | W | 1315 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 185 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 1477 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 31 | W | 996 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 31 | W | 1102 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 31 | W | 1427 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 117 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 507 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 2904 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 830 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 1695 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 2511 | A | C2-N3 | 5.17 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 1510 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 144 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 31 | W | 405 | A | C2-N3 | 5.17 | 1.38 | 1.33 |
| 1 | A | 547 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 870 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 1361 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 2 | B | 39 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 462 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 935 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 2594 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 2722 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 1490 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 1513 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 51 | y | 23 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 51 | 1 | 70 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 715 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 1019 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 2455 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 2 | B | 13 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 928 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 124 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 219 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 2 | B | 50 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 2 | B | 97 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 671 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 908 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 1499 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 2 | B | 18 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 18 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 391 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 31 | W | 1466 | A | C2-N3 | 5.16 | 1.38 | 1.33 |
| 1 | A | 162 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 517 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 2026 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 2627 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 31 | W | 803 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 31 | W | 1022 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 150 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 974 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 1392 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 2106 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 31 | W | 485 | A | C2-N3 | 5.15 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1126 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 1423 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 2831 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 958 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 31 | W | 1517 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 1653 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 1888 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 2459 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 31 | W | 824 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 31 | W | 978 | A | C2-N3 | 5.15 | 1.38 | 1.33 |
| 1 | A | 305 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 330 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 736 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 1235 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 287 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 617 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 1654 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 1956 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 364 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 422 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 605 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 690 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 13 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 1027 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 1190 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 1900 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 2402 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 2900 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 31 | W | 254 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 51 | 1 | 23 | A | C2-N3 | 5.14 | 1.38 | 1.33 |
| 1 | A | 486 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 2661 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 2837 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 381 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 713 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 1254 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 51 | y | 24 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 199 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 828 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 207 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 337 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 1426 | A | C2-N3 | 5.13 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 1 | A | 1534 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 34 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 721 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 919 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 1257 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 51 | 1 | 76 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 275 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 429 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 774 | A | C5-C4 | -5.13 | 1.35 | 1.38 |
| 1 | A | 230 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 475 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 560 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 1617 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 1618 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 790 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 923 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 1178 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 1261 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 31 | W | 1270 | A | C2-N3 | 5.13 | 1.38 | 1.33 |
| 1 | A | 140 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 367 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 1809 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 1816 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 1791 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 2307 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 57 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 76 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 266 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 357 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 796 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 1174 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 382 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 913 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 496 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 53 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 551 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 2517 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 306 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 31 | W | 1528 | A | C2-N3 | 5.12 | 1.38 | 1.33 |
| 1 | A | 2111 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 1256 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 6 | A | C2-N3 | 5.11 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 110 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 722 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1453 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 1248 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 51 | y | 9 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 910 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1517 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1839 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1981 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2043 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2526 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2860 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 258 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 224 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 978 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2406 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 917 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 964 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1056 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2052 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2616 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2790 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 715 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 793 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 1111 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 1271 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 421 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1760 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 1928 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2078 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 1 | A | 2302 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 882 | A | C2-N3 | 5.11 | 1.38 | 1.33 |
| 31 | W | 1451 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 91 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 519 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 683 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 1034 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 1161 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 2080 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 31 | W | 786 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 1119 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 1197 | A | C2-N3 | 5.10 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 1 | A | 1850 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 31 | W | 638 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 31 | W | 290 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 12 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 52 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 329 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 389 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 1540 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 2030 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 31 | W | 947 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 31 | W | 1320 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 436 | A | C2-N3 | 5.10 | 1.38 | 1.33 |
| 1 | A | 1398 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1506 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 31 | W | 500 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 130 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 763 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1677 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 2027 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 2044 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 31 | W | 296 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 866 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1055 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1672 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1697 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 537 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1221 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 31 | W | 452 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1025 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 1723 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 2590 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 2734 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 2793 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 31 | W | 94 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 31 | W | 361 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 31 | W | 1065 | A | C2-N3 | 5.09 | 1.38 | 1.33 |
| 1 | A | 630 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1541 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 1092 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 265 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 325 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 661 | A | C2-N3 | 5.08 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 1 | A | 724 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1036 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1767 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 2769 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 440 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 727 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 896 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 271 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 491 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 61 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 133 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 543 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 236 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1335 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 2770 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 1425 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 5 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1175 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1286 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 1627 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 2047 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 2387 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 31 | W | 1179 | A | C2-N3 | 5.08 | 1.38 | 1.33 |
| 1 | A | 244 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 782 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 2777 | A | C5-C4 | -5.07 | 1.35 | 1.38 |
| 2 | B | 55 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 738 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 1359 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1026 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1059 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 512 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 38 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 259 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 504 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 847 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1113 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1942 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 216 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 388 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 210 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 335 | A | C2-N3 | 5.07 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 1 | A | 154 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 690 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 893 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1084 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1131 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1614 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 173 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 278 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 542 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 945 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 1222 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 1349 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 1529 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 428 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 543 | A | C5-C4 | -5.07 | 1.35 | 1.38 |
| 1 | A | 1580 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 1832 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 2316 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 725 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 1155 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 31 | W | 1308 | A | C2-N3 | 5.07 | 1.38 | 1.33 |
| 1 | A | 102 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1432 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1054 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1222 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 2507 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 114 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 142 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 532 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 1115 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 1185 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 2365 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 323 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 541 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 530 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 894 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1465 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1585 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1877 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 2919 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 190 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 1213 | A | C2-N3 | 5.06 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 31 | W | 1435 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 538 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 758 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1029 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1727 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 2389 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 281 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 1342 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 637 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1516 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 31 | W | 208 | A | C2-N3 | 5.06 | 1.38 | 1.33 |
| 1 | A | 1421 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1524 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 2658 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 2893 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 206 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 529 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 968 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 1050 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 193 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1179 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1918 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 1283 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 51 | y | 21 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 31 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 439 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 171 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 220 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 592 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1445 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1583 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1700 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 203 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 456 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 51 | 1 | 9 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 67 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1061 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1685 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 2762 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 2851 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 1065 | A | C5-C4 | -5.05 | 1.35 | 1.38 |
| 1 | A | 343 | A | C2-N3 | 5.05 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 1 | A | 412 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1265 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 1734 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 2405 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 2704 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 2 | B | 51 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 31 | W | 1236 | A | C2-N3 | 5.05 | 1.38 | 1.33 |
| 1 | A | 593 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1134 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1157 | A | C5-C4 | -5.04 | 1.35 | 1.38 |
| 1 | A | 1491 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 2670 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 118 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 194 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 769 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1746 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 2454 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 2673 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 31 | W | 390 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 318 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 2089 | A | C5-C4 | -5.04 | 1.35 | 1.38 |
| 1 | A | 2421 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 2 | B | 17 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 31 | W | 74 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 31 | W | 956 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 31 | W | 1288 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 835 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1115 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1347 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1680 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 673 | A | C5-C4 | -5.04 | 1.35 | 1.38 |
| 1 | A | 987 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1144 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1202 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1244 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 1520 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 31 | W | 333 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 31 | W | 1541 | A | C2-N3 | 5.04 | 1.38 | 1.33 |
| 1 | A | 578 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 868 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1132 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1906 | A | C2-N3 | 5.03 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 31 | W | 823 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1090 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 14 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 746 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1210 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1412 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1297 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1369 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1493 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 705 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1020 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2417 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2846 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 2 | B | 44 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1284 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1327 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1405 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 222 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 753 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1224 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1562 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2000 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2441 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2794 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 2 | B | 37 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 569 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1503 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 574 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 673 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1606 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 1914 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2542 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 2835 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 2 | B | 105 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 31 | W | 1437 | A | C2-N3 | 5.03 | 1.38 | 1.33 |
| 1 | A | 678 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 849 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 2923 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 1266 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 1532 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 2088 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 1028 | A | C2-N3 | 5.02 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 31 | W | 1252 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 1619 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 791 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 1103 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 384 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 407 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 548 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 888 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 1966 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 2834 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 61 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 240 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 496 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 604 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 650 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 1143 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 1366 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 1417 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 740 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 1882 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 2779 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 672 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 31 | W | 911 | A | C2-N3 | 5.02 | 1.38 | 1.33 |
| 1 | A | 456 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 494 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 646 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 689 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 829 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 1072 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 1774 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 1998 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 669 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 1470 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 1488 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 1341 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 1443 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 1392 | A | C5-C4 | -5.01 | 1.35 | 1.38 |
| 1 | A | 1434 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 2618 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 2 | B | 113 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 475 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 618 | A | C2-N3 | 5.01 | 1.38 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 31 | W | 875 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 1133 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 84 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 882 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 1788 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 630 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 647 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 1005 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 2810 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 10 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 971 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 120 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 228 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 31 | W | 1502 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 51 | 1 | 21 | A | C2-N3 | 5.01 | 1.38 | 1.33 |
| 1 | A | 913 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 1967 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 21 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 226 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 376 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 372 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 659 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 1120 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 1478 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 51 | 1 | 14 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 459 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 1042 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 1340 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 2018 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 1 | A | 2059 | A | C5-C4 | -5.00 | 1.35 | 1.38 |
| 2 | B | 114 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 389 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 415 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 31 | W | 924 | A | C2-N3 | 5.00 | 1.38 | 1.33 |
| 51 | y | 14 | A | C2-N3 | 5.00 | 1.38 | 1.33 |

All (11593) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1134 | A | C2-N3-C4 | 20.46 | 120.83 | 110.60 |
| 1 | A | 1691 | A | C2-N3-C4 | 20.44 | 120.82 | 110.60 |
| 31 | W | 1308 | A | C2-N3-C4 | 20.37 | 120.78 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 226 | A | C2-N3-C4 | 20.30 | 120.75 | 110.60 |
| 31 | W | 993 | A | C2-N3-C4 | 20.23 | 120.72 | 110.60 |
| 31 | W | 195 | A | C2-N3-C4 | 20.15 | 120.68 | 110.60 |
| 1 | A | 732 | A | C2-N3-C4 | 20.15 | 120.68 | 110.60 |
| 1 | A | 1581 | A | C2-N3-C4 | 20.02 | 120.61 | 110.60 |
| 1 | A | 593 | A | C2-N3-C4 | 19.97 | 120.59 | 110.60 |
| 1 | A | 1714 | A | C2-N3-C4 | 19.94 | 120.57 | 110.60 |
| 31 | W | 405 | A | C2-N3-C4 | 19.84 | 120.52 | 110.60 |
| 31 | W | 572 | A | C2-N3-C4 | 19.78 | 120.49 | 110.60 |
| 31 | W | 1234 | A | C2-N3-C4 | 19.76 | 120.48 | 110.60 |
| 31 | W | 1288 | A | C2-N3-C4 | 19.75 | 120.47 | 110.60 |
| 31 | W | 674 | A | C2-N3-C4 | 19.68 | 120.44 | 110.60 |
| 1 | A | 2786 | A | C2-N3-C4 | 19.67 | 120.44 | 110.60 |
| 1 | A | 948 | A | C2-N3-C4 | 19.61 | 120.40 | 110.60 |
| 1 | A | 1132 | A | C2-N3-C4 | 19.58 | 120.39 | 110.60 |
| 1 | A | 1491 | A | C2-N3-C4 | 19.57 | 120.39 | 110.60 |
| 1 | A | 437 | A | C2-N3-C4 | 19.53 | 120.36 | 110.60 |
| 1 | A | 1046 | A | C2-N3-C4 | 19.53 | 120.36 | 110.60 |
| 31 | W | 987 | A | C2-N3-C4 | 19.50 | 120.35 | 110.60 |
| 1 | A | 1480 | A | C2-N3-C4 | 19.46 | 120.33 | 110.60 |
| 1 | A | 913 | A | C2-N3-C4 | 19.43 | 120.31 | 110.60 |
| 2 | B | 11 | A | C2-N3-C4 | 19.43 | 120.31 | 110.60 |
| 1 | A | 1506 | A | C2-N3-C4 | 19.42 | 120.31 | 110.60 |
| 1 | A | 732 | A | N1-C2-N3 | -19.42 | 119.59 | 129.30 |
| 31 | W | 674 | A | N1-C2-N3 | -19.39 | 119.60 | 129.30 |
| 1 | A | 925 | A | C2-N3-C4 | 19.39 | 120.30 | 110.60 |
| 1 | A | 560 | A | C2-N3-C4 | 19.38 | 120.29 | 110.60 |
| 31 | W | 128 | A | C2-N3-C4 | 19.37 | 120.29 | 110.60 |
| 1 | A | 1360 | A | C2-N3-C4 | 19.36 | 120.28 | 110.60 |
| 1 | A | 438 | A | C2-N3-C4 | 19.36 | 120.28 | 110.60 |
| 1 | A | 2339 | A | C2-N3-C4 | 19.35 | 120.27 | 110.60 |
| 31 | W | 727 | A | C2-N3-C4 | 19.33 | 120.27 | 110.60 |
| 1 | A | 2794 | A | C2-N3-C4 | 19.32 | 120.26 | 110.60 |
| 1 | A | 736 | A | C2-N3-C4 | 19.31 | 120.26 | 110.60 |
| 1 | A | 390 | A | C2-N3-C4 | 19.29 | 120.25 | 110.60 |
| 1 | A | 765 | A | C2-N3-C4 | 19.29 | 120.24 | 110.60 |
| 31 | W | 1341 | A | C2-N3-C4 | 19.27 | 120.24 | 110.60 |
| 2 | B | 71 | A | C2-N3-C4 | 19.27 | 120.23 | 110.60 |
| 31 | W | 1372 | A | N1-C2-N3 | -19.27 | 119.67 | 129.30 |
| 31 | W | 737 | A | C2-N3-C4 | 19.26 | 120.23 | 110.60 |
| 1 | A | 957 | A | C2-N3-C4 | 19.25 | 120.22 | 110.60 |
| 1 | A | 1930 | A | C2-N3-C4 | 19.25 | 120.22 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2807 | A | N1-C2-N3 | -19.24 | 119.68 | 129.30 |
| 1 | A | 1667 | A | C2-N3-C4 | 19.24 | 120.22 | 110.60 |
| 31 | W | 1358 | A | N1-C2-N3 | -19.24 | 119.68 | 129.30 |
| 1 | A | 1778 | A | C2-N3-C4 | 19.23 | 120.22 | 110.60 |
| 31 | W | 1358 | A | C2-N3-C4 | 19.23 | 120.22 | 110.60 |
| 1 | A | 1005 | A | C2-N3-C4 | 19.23 | 120.22 | 110.60 |
| 1 | A | 935 | A | C2-N3-C4 | 19.23 | 120.21 | 110.60 |
| 1 | A | 1073 | A | C2-N3-C4 | 19.22 | 120.21 | 110.60 |
| 31 | W | 555 | A | C2-N3-C4 | 19.22 | 120.21 | 110.60 |
| 1 | A | 161 | A | C2-N3-C4 | 19.21 | 120.20 | 110.60 |
| 1 | A | 652 | A | C2-N3-C4 | 19.21 | 120.20 | 110.60 |
| 31 | W | 1004 | A | C2-N3-C4 | 19.20 | 120.20 | 110.60 |
| 1 | A | 1905 | A | C2-N3-C4 | 19.20 | 120.20 | 110.60 |
| 31 | W | 507 | A | C2-N3-C4 | 19.20 | 120.20 | 110.60 |
| 1 | A | 2532 | A | C2-N3-C4 | 19.20 | 120.20 | 110.60 |
| 51 | 1 | 23 | A | C2-N3-C4 | 19.20 | 120.20 | 110.60 |
| 2 | B | 102 | A | C2-N3-C4 | 19.20 | 120.20 | 110.60 |
| 1 | A | 847 | A | N1-C2-N3 | -19.19 | 119.70 | 129.30 |
| 1 | A | 318 | A | C2-N3-C4 | 19.19 | 120.19 | 110.60 |
| 1 | A | 849 | A | C2-N3-C4 | 19.19 | 120.19 | 110.60 |
| 1 | A | 1655 | A | C2-N3-C4 | 19.19 | 120.19 | 110.60 |
| 1 | A | 1919 | A | C2-N3-C4 | 19.19 | 120.19 | 110.60 |
| 1 | A | 183 | A | N1-C2-N3 | -19.18 | 119.71 | 129.30 |
| 1 | A | 2807 | A | C2-N3-C4 | 19.18 | 120.19 | 110.60 |
| 31 | W | 631 | A | N1-C2-N3 | -19.18 | 119.71 | 129.30 |
| 1 | A | 118 | A | N1-C2-N3 | -19.18 | 119.71 | 129.30 |
| 1 | A | 2089 | A | N1-C2-N3 | -19.18 | 119.71 | 129.30 |
| 1 | A | 2083 | A | C2-N3-C4 | 19.18 | 120.19 | 110.60 |
| 1 | A | 1097 | A | N1-C2-N3 | -19.17 | 119.71 | 129.30 |
| 1 | A | 133 | A | C2-N3-C4 | 19.17 | 120.19 | 110.60 |
| 1 | A | 1074 | A | C2-N3-C4 | 19.17 | 120.19 | 110.60 |
| 1 | A | 1174 | A | C2-N3-C4 | 19.17 | 120.19 | 110.60 |
| 1 | A | 1536 | A | C2-N3-C4 | 19.17 | 120.19 | 110.60 |
| 1 | A | 690 | A | C2-N3-C4 | 19.17 | 120.18 | 110.60 |
| 51 | y | 23 | A | C2-N3-C4 | 19.17 | 120.18 | 110.60 |
| 1 | A | 1442 | A | C2-N3-C4 | 19.17 | 120.18 | 110.60 |
| 1 | A | 1919 | A | N1-C2-N3 | -19.16 | 119.72 | 129.30 |
| 1 | A | 1286 | A | C2-N3-C4 | 19.16 | 120.18 | 110.60 |
| 1 | A | 2062 | A | N1-C2-N3 | -19.16 | 119.72 | 129.30 |
| 1 | A | 108 | A | C2-N3-C4 | 19.16 | 120.18 | 110.60 |
| 1 | A | 130 | A | C2-N3-C4 | 19.16 | 120.18 | 110.60 |
| 31 | W | 508 | A | N1-C2-N3 | -19.16 | 119.72 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 527 | A | C2-N3-C4 | 19.16 | 120.18 | 110.60 |
| 31 | W | 1143 | A | C2-N3-C4 | 19.15 | 120.18 | 110.60 |
| 51 | 1 | 21 | A | C2-N3-C4 | 19.15 | 120.18 | 110.60 |
| 31 | W | 506 | A | C2-N3-C4 | 19.15 | 120.17 | 110.60 |
| 31 | W | 1155 | A | C2-N3-C4 | 19.15 | 120.17 | 110.60 |
| 1 | A | 1555 | A | N1-C2-N3 | -19.14 | 119.73 | 129.30 |
| 1 | A | 1388 | A | C2-N3-C4 | 19.14 | 120.17 | 110.60 |
| 1 | A | 574 | A | C2-N3-C4 | 19.13 | 120.17 | 110.60 |
| 1 | A | 265 | A | C2-N3-C4 | 19.13 | 120.17 | 110.60 |
| 1 | A | 1305 | A | N1-C2-N3 | -19.13 | 119.74 | 129.30 |
| 31 | W | 582 | A | C2-N3-C4 | 19.13 | 120.16 | 110.60 |
| 31 | W | 631 | A | C2-N3-C4 | 19.13 | 120.16 | 110.60 |
| 1 | A | 500 | A | C2-N3-C4 | 19.12 | 120.16 | 110.60 |
| 1 | A | 1532 | A | C2-N3-C4 | 19.12 | 120.16 | 110.60 |
| 51 | y | 14 | A | C2-N3-C4 | 19.12 | 120.16 | 110.60 |
| 1 | A | 1485 | A | C2-N3-C4 | 19.12 | 120.16 | 110.60 |
| 31 | W | 1236 | A | C2-N3-C4 | 19.12 | 120.16 | 110.60 |
| 1 | A | 2689 | A | C2-N3-C4 | 19.12 | 120.16 | 110.60 |
| 31 | W | 1260 | A | C2-N3-C4 | 19.11 | 120.16 | 110.60 |
| 31 | W | 1455 | A | C2-N3-C4 | 19.11 | 120.16 | 110.60 |
| 1 | A | 882 | A | C2-N3-C4 | 19.11 | 120.15 | 110.60 |
| 31 | W | 630 | A | C2-N3-C4 | 19.11 | 120.16 | 110.60 |
| 1 | A | 2459 | A | C2-N3-C4 | 19.11 | 120.15 | 110.60 |
| 31 | W | 477 | A | C2-N3-C4 | 19.11 | 120.15 | 110.60 |
| 1 | A | 765 | A | N1-C2-N3 | -19.10 | 119.75 | 129.30 |
| 1 | A | 1123 | A | N1-C2-N3 | -19.10 | 119.75 | 129.30 |
| 31 | W | 208 | A | C2-N3-C4 | 19.10 | 120.15 | 110.60 |
| 31 | W | 956 | A | C2-N3-C4 | 19.10 | 120.15 | 110.60 |
| 31 | W | 1502 | A | C2-N3-C4 | 19.10 | 120.15 | 110.60 |
| 1 | A | 634 | A | C2-N3-C4 | 19.10 | 120.15 | 110.60 |
| 31 | W | 713 | A | N1-C2-N3 | -19.10 | 119.75 | 129.30 |
| 1 | A | 1905 | A | N1-C2-N3 | -19.10 | 119.75 | 129.30 |
| 1 | A | 867 | A | C2-N3-C4 | 19.10 | 120.15 | 110.60 |
| 1 | A | 64 | A | N1-C2-N3 | -19.10 | 119.75 | 129.30 |
| 1 | A | 2007 | A | C2-N3-C4 | 19.10 | 120.15 | 110.60 |
| 1 | A | 2343 | A | C2-N3-C4 | 19.09 | 120.15 | 110.60 |
| 31 | W | 649 | A | C2-N3-C4 | 19.09 | 120.15 | 110.60 |
| 51 | 1 | 14 | A | C2-N3-C4 | 19.09 | 120.15 | 110.60 |
| 31 | W | 659 | A | C2-N3-C4 | 19.09 | 120.15 | 110.60 |
| 31 | W | 254 | A | N1-C2-N3 | -19.09 | 119.76 | 129.30 |
| 1 | A | 2479 | A | C2-N3-C4 | 19.09 | 120.14 | 110.60 |
| 31 | W | 440 | A | C2-N3-C4 | 19.09 | 120.14 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2091 | A | C2-N3-C4 | 19.09 | 120.14 | 110.60 |
| 31 | W | 542 | A | N1-C2-N3 | -19.09 | 119.76 | 129.30 |
| 1 | A | 1019 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 31 | W | 170 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 1 | A | 353 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 1 | A | 1877 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 31 | W | 114 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 31 | W | 1259 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 1 | A | 683 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 31 | W | 1372 | A | C2-N3-C4 | 19.08 | 120.14 | 110.60 |
| 1 | A | 154 | A | C2-N3-C4 | 19.07 | 120.14 | 110.60 |
| 1 | A | 1375 | A | C2-N3-C4 | 19.07 | 120.14 | 110.60 |
| 1 | A | 1417 | A | N1-C2-N3 | -19.07 | 119.76 | 129.30 |
| 1 | A | 2779 | A | C2-N3-C4 | 19.07 | 120.14 | 110.60 |
| 1 | A | 1562 | A | C2-N3-C4 | 19.07 | 120.14 | 110.60 |
| 51 | y | 21 | A | C2-N3-C4 | 19.07 | 120.14 | 110.60 |
| 1 | A | 2547 | A | C2-N3-C4 | 19.07 | 120.14 | 110.60 |
| 1 | A | 1096 | A | C2-N3-C4 | 19.07 | 120.13 | 110.60 |
| 1 | A | 1398 | A | C2-N3-C4 | 19.07 | 120.13 | 110.60 |
| 1 | A | 2719 | A | C2-N3-C4 | 19.07 | 120.13 | 110.60 |
| 1 | A | 176 | A | C2-N3-C4 | 19.07 | 120.13 | 110.60 |
| 1 | A | 28 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 1 | A | 2369 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 31 | W | 225 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 31 | W | 522 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 1 | A | 1524 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 31 | W | 1308 | A | N1-C2-N3 | -19.06 | 119.77 | 129.30 |
| 31 | W | 74 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 31 | W | 844 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 31 | W | 1298 | A | C2-N3-C4 | 19.06 | 120.13 | 110.60 |
| 1 | A | 1222 | A | C2-N3-C4 | 19.05 | 120.13 | 110.60 |
| 31 | W | 1266 | A | C2-N3-C4 | 19.05 | 120.13 | 110.60 |
| 1 | A | 2826 | A | C2-N3-C4 | 19.05 | 120.13 | 110.60 |
| 1 | A | 2889 | A | C2-N3-C4 | 19.05 | 120.13 | 110.60 |
| 2 | B | 114 | A | C2-N3-C4 | 19.05 | 120.13 | 110.60 |
| 1 | A | 758 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 31 | W | 793 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 1 | A | 281 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 1 | A | 1876 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 2 | B | 13 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 1 | A | 1097 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 1 | A | 1784 | A | N1-C2-N3 | -19.05 | 119.78 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 862 | A | N1-C2-N3 | -19.05 | 119.78 | 129.30 |
| 1 | A | 231 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 1 | A | 526 | A | C2-N3-C4 | 19.05 | 120.12 | 110.60 |
| 1 | A | 1325 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 1 | A | 1914 | A | N1-C2-N3 | -19.04 | 119.78 | 129.30 |
| 1 | A | 689 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 31 | W | 886 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 31 | W | 1213 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 1 | A | 910 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 1 | A | 2735 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 1 | A | 2262 | A | N1-C2-N3 | -19.04 | 119.78 | 129.30 |
| 31 | W | 61 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 31 | W | 775 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 1 | A | 418 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 31 | W | 457 | A | C2-N3-C4 | 19.04 | 120.12 | 110.60 |
| 1 | A | 21 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 1 | A | 1266 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 1 | A | 2402 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 31 | W | 381 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 31 | W | 251 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 31 | W | 1342 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 1 | A | 364 | A | C2-N3-C4 | 19.03 | 120.12 | 110.60 |
| 1 | A | 1480 | A | N1-C2-N3 | -19.03 | 119.78 | 129.30 |
| 1 | A | 2790 | A | C2-N3-C4 | 19.03 | 120.11 | 110.60 |
| 31 | W | 415 | A | N1-C2-N3 | -19.03 | 119.78 | 129.30 |
| 31 | W | 440 | A | N1-C2-N3 | -19.03 | 119.78 | 129.30 |
| 1 | A | 2722 | A | C2-N3-C4 | 19.03 | 120.11 | 110.60 |
| 1 | A | 965 | A | C2-N3-C4 | 19.03 | 120.11 | 110.60 |
| 31 | W | 1028 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 31 | W | 658 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 31 | W | 713 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 31 | W | 278 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 31 | W | 1486 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 1254 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 1490 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 1601 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 1636 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 2769 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 1914 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 31 | W | 1189 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 51 | 1 | 41 | A | C2-N3-C4 | 19.02 | 120.11 | 110.60 |
| 1 | A | 526 | A | N1-C2-N3 | -19.02 | 119.79 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1473 | A | N1-C2-N3 | -19.01 | 119.79 | 129.30 |
| 31 | W | 206 | A | C2-N3-C4 | 19.01 | 120.11 | 110.60 |
| 1 | A | 1029 | A | C2-N3-C4 | 19.01 | 120.11 | 110.60 |
| 1 | A | 943 | A | C2-N3-C4 | 19.01 | 120.10 | 110.60 |
| 2 | B | 25 | A | N1-C2-N3 | -19.01 | 119.80 | 129.30 |
| 31 | W | 825 | A | C2-N3-C4 | 19.01 | 120.10 | 110.60 |
| 1 | A | 1421 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 1407 | A | N1-C2-N3 | -19.00 | 119.80 | 129.30 |
| 1 | A | 1243 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 2662 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 542 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 477 | A | N1-C2-N3 | -19.00 | 119.80 | 129.30 |
| 1 | A | 925 | A | N1-C2-N3 | -19.00 | 119.80 | 129.30 |
| 1 | A | 65 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 658 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 2329 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 342 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 504 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 870 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 1157 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 1189 | A | N1-C2-N3 | -19.00 | 119.80 | 129.30 |
| 31 | W | 824 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 1269 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 1483 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 1520 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 1 | A | 2848 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 151 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 945 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 1121 | A | C2-N3-C4 | 19.00 | 120.10 | 110.60 |
| 31 | W | 1115 | A | C2-N3-C4 | 18.99 | 120.10 | 110.60 |
| 1 | A | 391 | A | C2-N3-C4 | 18.99 | 120.10 | 110.60 |
| 1 | A | 1126 | A | C2-N3-C4 | 18.99 | 120.10 | 110.60 |
| 1 | A | 2026 | A | C2-N3-C4 | 18.99 | 120.10 | 110.60 |
| 31 | W | 457 | A | N1-C2-N3 | -18.99 | 119.80 | 129.30 |
| 1 | A | 2916 | A | C2-N3-C4 | 18.99 | 120.10 | 110.60 |
| 1 | A | 314 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 2 | B | 71 | A | N1-C2-N3 | -18.99 | 119.81 | 129.30 |
| 31 | W | 12 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 31 | W | 390 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 31 | W | 919 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 1 | A | 715 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 1 | A | 723 | A | N1-C2-N3 | -18.99 | 119.81 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1026 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 1 | A | 2317 | A | C2-N3-C4 | 18.99 | 120.09 | 110.60 |
| 2 | B | 102 | A | N1-C2-N3 | -18.99 | 119.81 | 129.30 |
| 31 | W | 18 | A | N1-C2-N3 | -18.99 | 119.81 | 129.30 |
| 1 | A | 1405 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 31 | W | 1261 | A | N1-C2-N3 | -18.98 | 119.81 | 129.30 |
| 1 | A | 572 | A | N1-C2-N3 | -18.98 | 119.81 | 129.30 |
| 31 | W | 439 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 31 | W | 721 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 790 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 1392 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 342 | A | N1-C2-N3 | -18.98 | 119.81 | 129.30 |
| 31 | W | 947 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 31 | W | 150 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 91 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 216 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 808 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 1266 | A | N1-C2-N3 | -18.98 | 119.81 | 129.30 |
| 1 | A | 1464 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 1691 | A | N1-C2-N3 | -18.98 | 119.81 | 129.30 |
| 31 | W | 671 | A | C2-N3-C4 | 18.98 | 120.09 | 110.60 |
| 1 | A | 659 | A | N1-C2-N3 | -18.97 | 119.81 | 129.30 |
| 31 | W | 924 | A | C2-N3-C4 | 18.97 | 120.09 | 110.60 |
| 1 | A | 49 | A | C2-N3-C4 | 18.97 | 120.09 | 110.60 |
| 1 | A | 305 | A | C2-N3-C4 | 18.97 | 120.09 | 110.60 |
| 31 | W | 148 | A | C2-N3-C4 | 18.97 | 120.09 | 110.60 |
| 1 | A | 2668 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 1 | A | 374 | A | N1-C2-N3 | -18.97 | 119.81 | 129.30 |
| 1 | A | 781 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 1 | A | 1131 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 1 | A | 1553 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 1 | A | 1965 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 2 | B | 46 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 31 | W | 72 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 1 | A | 1918 | A | N1-C2-N3 | -18.97 | 119.82 | 129.30 |
| 1 | A | 1260 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 31 | W | 1419 | A | C2-N3-C4 | 18.97 | 120.08 | 110.60 |
| 1 | A | 222 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 2893 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 31 | W | 988 | A | N1-C2-N3 | -18.96 | 119.82 | 129.30 |
| 1 | A | 456 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 477 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 55 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 185 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 31 | W | 57 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 31 | W | 282 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 547 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 1406 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 1026 | A | N1-C2-N3 | -18.96 | 119.82 | 129.30 |
| 1 | A | 1417 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 1814 | A | N1-C2-N3 | -18.96 | 119.82 | 129.30 |
| 2 | B | 99 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 171 | A | C2-N3-C4 | 18.96 | 120.08 | 110.60 |
| 1 | A | 210 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 2462 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 31 | W | 150 | A | N1-C2-N3 | -18.95 | 119.82 | 129.30 |
| 31 | W | 159 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 31 | W | 638 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 31 | W | 899 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 1456 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 1713 | A | N1-C2-N3 | -18.95 | 119.82 | 129.30 |
| 1 | A | 1918 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 94 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 1579 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 2049 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 31 | W | 677 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 1 | A | 275 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 31 | W | 506 | A | N1-C2-N3 | -18.95 | 119.83 | 129.30 |
| 31 | W | 715 | A | C2-N3-C4 | 18.95 | 120.08 | 110.60 |
| 31 | W | 1077 | A | C2-N3-C4 | 18.95 | 120.07 | 110.60 |
| 1 | A | 659 | A | C2-N3-C4 | 18.95 | 120.07 | 110.60 |
| 31 | W | 208 | A | N1-C2-N3 | -18.95 | 119.83 | 129.30 |
| 31 | W | 1327 | A | C2-N3-C4 | 18.95 | 120.07 | 110.60 |
| 1 | A | 273 | A | C2-N3-C4 | 18.95 | 120.07 | 110.60 |
| 1 | A | 1061 | A | N1-C2-N3 | -18.95 | 119.83 | 129.30 |
| 1 | A | 1638 | A | C2-N3-C4 | 18.95 | 120.07 | 110.60 |
| 1 | A | 2686 | A | N1-C2-N3 | -18.95 | 119.83 | 129.30 |
| 31 | W | 899 | A | N1-C2-N3 | -18.95 | 119.83 | 129.30 |
| 31 | W | 1178 | A | C2-N3-C4 | 18.95 | 120.07 | 110.60 |
| 1 | A | 724 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 849 | A | N1-C2-N3 | -18.94 | 119.83 | 129.30 |
| 1 | A | 1325 | A | N1-C2-N3 | -18.94 | 119.83 | 129.30 |
| 31 | W | 389 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 1233 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 139 | A | N1-C2-N3 | -18.94 | 119.83 | 129.30 |
| 1 | A | 1556 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 1848 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 1913 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 2663 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 31 | W | 333 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 2694 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 31 | W | 139 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 31 | W | 1529 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 51 | y | 24 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 118 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 369 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 31 | W | 996 | A | C2-N3-C4 | 18.94 | 120.07 | 110.60 |
| 1 | A | 572 | A | C2-N3-C4 | 18.93 | 120.07 | 110.60 |
| 1 | A | 593 | A | N1-C2-N3 | -18.93 | 119.83 | 129.30 |
| 1 | A | 677 | A | C2-N3-C4 | 18.93 | 120.07 | 110.60 |
| 1 | A | 1999 | A | C2-N3-C4 | 18.93 | 120.07 | 110.60 |
| 1 | A | 2777 | A | N1-C2-N3 | -18.93 | 119.83 | 129.30 |
| 31 | W | 985 | A | N1-C2-N3 | -18.93 | 119.83 | 129.30 |
| 1 | A | 2421 | A | C2-N3-C4 | 18.93 | 120.07 | 110.60 |
| 1 | A | 2447 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 31 | W | 12 | A | N1-C2-N3 | -18.93 | 119.83 | 129.30 |
| 31 | W | 968 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 31 | W | 984 | A | C2-N3-C4 | 18.93 | 120.07 | 110.60 |
| 1 | A | 322 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 1302 | A | N1-C2-N3 | -18.93 | 119.83 | 129.30 |
| 31 | W | 1160 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 683 | A | N1-C2-N3 | -18.93 | 119.84 | 129.30 |
| 1 | A | 1426 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 1844 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 2686 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 31 | W | 1451 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 2078 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 161 | A | N1-C2-N3 | -18.93 | 119.84 | 129.30 |
| 1 | A | 1813 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 2032 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 2643 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 2916 | A | N1-C2-N3 | -18.93 | 119.84 | 129.30 |
| 31 | W | 452 | A | C2-N3-C4 | 18.93 | 120.06 | 110.60 |
| 1 | A | 1046 | A | N1-C2-N3 | -18.92 | 119.84 | 129.30 |
| 1 | A | 2018 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 31 | W | 796 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1200 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1119 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1713 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1820 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 31 | W | 382 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 31 | W | 811 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 31 | W | 1147 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1055 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1675 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1700 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 31 | W | 1435 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 2349 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 2455 | A | N1-C2-N3 | -18.92 | 119.84 | 129.30 |
| 1 | A | 326 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1072 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1617 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1735 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 31 | W | 1490 | A | C2-N3-C4 | 18.92 | 120.06 | 110.60 |
| 1 | A | 1244 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 1 | A | 2389 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 1 | A | 2837 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 94 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 129 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 1056 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 1509 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 1 | A | 206 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 228 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 1 | A | 677 | A | N1-C2-N3 | -18.91 | 119.84 | 129.30 |
| 1 | A | 1347 | A | N1-C2-N3 | -18.91 | 119.84 | 129.30 |
| 1 | A | 1473 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 2 | B | 51 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 1247 | A | N1-C2-N3 | -18.91 | 119.84 | 129.30 |
| 51 | y | 41 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 1 | A | 1588 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 397 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 31 | W | 529 | A | C2-N3-C4 | 18.91 | 120.06 | 110.60 |
| 1 | A | 56 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 1 | A | 1141 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 1 | A | 1929 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 1 | A | 2898 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 31 | W | 361 | A | N1-C2-N3 | -18.91 | 119.85 | 129.30 |
| 31 | W | 1369 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1784 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 1 | A | 2834 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 31 | W | 270 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 31 | W | 1247 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 1 | A | 156 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 31 | W | 762 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 31 | W | 1523 | A | C2-N3-C4 | 18.91 | 120.05 | 110.60 |
| 1 | A | 952 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 31 | W | 140 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 31 | W | 704 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 1432 | A | N1-C2-N3 | -18.90 | 119.85 | 129.30 |
| 1 | A | 1928 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 2018 | A | N1-C2-N3 | -18.90 | 119.85 | 129.30 |
| 1 | A | 2570 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 2898 | A | N1-C2-N3 | -18.90 | 119.85 | 129.30 |
| 31 | W | 1180 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 762 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 2819 | A | N1-C2-N3 | -18.90 | 119.85 | 129.30 |
| 1 | A | 10 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 376 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 2111 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 2375 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 31 | W | 519 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 31 | W | 1245 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 851 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 1941 | A | N1-C2-N3 | -18.90 | 119.85 | 129.30 |
| 1 | A | 1995 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 2375 | A | N1-C2-N3 | -18.90 | 119.85 | 129.30 |
| 1 | A | 2830 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 618 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 1103 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 31 | W | 258 | A | C2-N3-C4 | 18.90 | 120.05 | 110.60 |
| 1 | A | 647 | A | N1-C2-N3 | -18.89 | 119.85 | 129.30 |
| 1 | A | 1157 | A | N1-C2-N3 | -18.89 | 119.85 | 129.30 |
| 1 | A | 1858 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 2087 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 31 | W | 791 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 31 | W | 902 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 1680 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 547 | A | N1-C2-N3 | -18.89 | 119.85 | 129.30 |
| 1 | A | 656 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 978 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1123 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 1760 | A | N1-C2-N3 | -18.89 | 119.86 | 129.30 |
| 1 | A | 1767 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 2089 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 2362 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 1 | A | 2907 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 31 | W | 1252 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 51 | y | 14 | A | N1-C2-N3 | -18.89 | 119.86 | 129.30 |
| 1 | A | 1347 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 1555 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 1743 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 2740 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 2754 | A | C2-N3-C4 | 18.89 | 120.05 | 110.60 |
| 31 | W | 1022 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 139 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 524 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 2593 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 2893 | A | N1-C2-N3 | -18.89 | 119.86 | 129.30 |
| 31 | W | 1133 | A | N1-C2-N3 | -18.89 | 119.86 | 129.30 |
| 1 | A | 144 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 702 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 1189 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 1 | A | 2683 | A | N1-C2-N3 | -18.89 | 119.86 | 129.30 |
| 31 | W | 1120 | A | C2-N3-C4 | 18.89 | 120.04 | 110.60 |
| 51 | 1 | 14 | A | N1-C2-N3 | -18.89 | 119.86 | 129.30 |
| 1 | A | 125 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 475 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 1308 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 2845 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 530 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 1210 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 1685 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 1838 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 1845 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 1111 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 1425 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 44 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 126 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 1506 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 1844 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 31 | W | 31 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 504 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 723 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 2295 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 2461 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 2704 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 2900 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 51 | 1 | 44 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 496 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 821 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 2606 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 2902 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 696 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 979 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 41 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 431 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 876 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 2 | B | 44 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 171 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 211 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 690 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 31 | W | 1179 | A | C2-N3-C4 | 18.88 | 120.04 | 110.60 |
| 1 | A | 91 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 1131 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 2876 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 31 | W | 386 | A | N1-C2-N3 | -18.88 | 119.86 | 129.30 |
| 1 | A | 889 | A | C2-N3-C4 | 18.87 | 120.04 | 110.60 |
| 1 | A | 1663 | A | C2-N3-C4 | 18.87 | 120.04 | 110.60 |
| 31 | W | 581 | A | C2-N3-C4 | 18.87 | 120.04 | 110.60 |
| 31 | W | 824 | A | N1-C2-N3 | -18.87 | 119.86 | 129.30 |
| 1 | A | 154 | A | N1-C2-N3 | -18.87 | 119.86 | 129.30 |
| 1 | A | 1305 | A | C2-N3-C4 | 18.87 | 120.04 | 110.60 |
| 31 | W | 364 | A | C2-N3-C4 | 18.87 | 120.04 | 110.60 |
| 31 | W | 475 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 206 | A | N1-C2-N3 | -18.87 | 119.86 | 129.30 |
| 1 | A | 470 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 1 | A | 2032 | A | N1-C2-N3 | -18.87 | 119.87 | 129.30 |
| 31 | W | 10 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 52 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 61 | A | N1-C2-N3 | -18.87 | 119.87 | 129.30 |
| 31 | W | 190 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 202 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 357 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 548 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 978 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 31 | W | 1266 | A | N1-C2-N3 | -18.87 | 119.87 | 129.30 |
| 1 | A | 821 | A | N1-C2-N3 | -18.87 | 119.87 | 129.30 |
| 1 | A | 1142 | A | C2-N3-C4 | 18.87 | 120.03 | 110.60 |
| 1 | A | 179 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 389 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 412 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 271 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 456 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 768 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 919 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 31 | W | 1517 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1313 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 2480 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 2 | B | 18 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 151 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 31 | W | 386 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 830 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1631 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1677 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 159 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 31 | W | 512 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 711 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 31 | W | 1349 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 808 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 1 | A | 1059 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 2500 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 384 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 476 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 637 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1404 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1709 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 2042 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 53 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1115 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1141 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 1 | A | 1608 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 1727 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 1 | A | 2670 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 2 | B | 50 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |
| 2 | B | 51 | A | N1-C2-N3 | -18.86 | 119.87 | 129.30 |
| 31 | W | 301 | A | C2-N3-C4 | 18.86 | 120.03 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 12 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 162 | A | N1-C2-N3 | -18.85 | 119.87 | 129.30 |
| 1 | A | 1132 | A | N1-C2-N3 | -18.85 | 119.87 | 129.30 |
| 1 | A | 2351 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 2507 | A | N1-C2-N3 | -18.85 | 119.87 | 129.30 |
| 2 | B | 76 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 31 | W | 337 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 31 | W | 438 | A | N1-C2-N3 | -18.85 | 119.87 | 129.30 |
| 31 | W | 1320 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 64 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 418 | A | N1-C2-N3 | -18.85 | 119.87 | 129.30 |
| 1 | A | 600 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 1592 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 1774 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 1981 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 2 | B | 25 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 31 | W | 1016 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 1 | A | 2668 | A | N1-C2-N3 | -18.85 | 119.88 | 129.30 |
| 31 | W | 381 | A | N1-C2-N3 | -18.85 | 119.88 | 129.30 |
| 31 | W | 801 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 31 | W | 948 | A | C2-N3-C4 | 18.85 | 120.03 | 110.60 |
| 31 | W | 1102 | A | N1-C2-N3 | -18.85 | 119.87 | 129.30 |
| 1 | A | 1116 | A | C2-N3-C4 | 18.85 | 120.02 | 110.60 |
| 1 | A | 1672 | A | C2-N3-C4 | 18.85 | 120.02 | 110.60 |
| 31 | W | 917 | A | C2-N3-C4 | 18.85 | 120.02 | 110.60 |
| 1 | A | 1119 | A | N1-C2-N3 | -18.85 | 119.88 | 129.30 |
| 31 | W | 31 | A | N1-C2-N3 | -18.85 | 119.88 | 129.30 |
| 31 | W | 433 | A | C2-N3-C4 | 18.85 | 120.02 | 110.60 |
| 31 | W | 1133 | A | C2-N3-C4 | 18.85 | 120.02 | 110.60 |
| 1 | A | 705 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1144 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1930 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 611 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 1185 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 1355 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 1 | A | 2700 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 456 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 1488 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1314 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1816 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 2071 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 240 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1284 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1516 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 2034 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 76 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 485 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 924 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 1502 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 1 | A | 314 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 1 | A | 1760 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1900 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 2767 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 947 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 1289 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 1355 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 35 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 501 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 1 | A | 324 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1357 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 1579 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 1 | A | 2618 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 1 | A | 2762 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 67 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 31 | W | 592 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 703 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 1342 | A | N1-C2-N3 | -18.84 | 119.88 | 129.30 |
| 31 | W | 1403 | A | C2-N3-C4 | 18.84 | 120.02 | 110.60 |
| 1 | A | 226 | A | N1-C2-N3 | -18.83 | 119.88 | 129.30 |
| 1 | A | 2315 | A | C2-N3-C4 | 18.83 | 120.02 | 110.60 |
| 31 | W | 211 | A | N1-C2-N3 | -18.83 | 119.88 | 129.30 |
| 1 | A | 462 | A | C2-N3-C4 | 18.83 | 120.02 | 110.60 |
| 1 | A | 1453 | A | N1-C2-N3 | -18.83 | 119.88 | 129.30 |
| 1 | A | 2912 | A | C2-N3-C4 | 18.83 | 120.02 | 110.60 |
| 31 | W | 874 | A | C2-N3-C4 | 18.83 | 120.02 | 110.60 |
| 31 | W | 974 | A | C2-N3-C4 | 18.83 | 120.02 | 110.60 |
| 31 | W | 321 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 31 | W | 404 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 31 | W | 491 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 31 | W | 730 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 31 | W | 1166 | A | C2-N3-C4 | 18.83 | 120.02 | 110.60 |
| 31 | W | 1437 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 1 | A | 2560 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 31 | W | 556 | A | N1-C2-N3 | -18.83 | 119.89 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 617 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 31 | W | 737 | A | N1-C2-N3 | -18.83 | 119.89 | 129.30 |
| 31 | W | 1470 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 1 | A | 333 | A | C2-N3-C4 | 18.83 | 120.01 | 110.60 |
| 1 | A | 337 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 1202 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 1388 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 2100 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2854 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2908 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 2 | B | 27 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 357 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 419 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 438 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 775 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 1298 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 51 | 1 | 24 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 73 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 1541 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2338 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 1271 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 549 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 717 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 1885 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2052 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2463 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2812 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 333 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 423 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 569 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 870 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 1205 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 1510 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 1541 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 922 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 556 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 1014 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 225 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 476 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 828 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 947 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 1654 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2571 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 99 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 1261 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 51 | y | 21 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 619 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 1144 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 2327 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 361 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 575 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 956 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 1710 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2088 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 2673 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 2767 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 1 | A | 2869 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 232 | A | N1-C2-N3 | -18.82 | 119.89 | 129.30 |
| 31 | W | 771 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 31 | W | 837 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 51 | 1 | 58 | A | C2-N3-C4 | 18.82 | 120.01 | 110.60 |
| 1 | A | 307 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 1 | A | 908 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 1 | A | 1434 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 1 | A | 2511 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 31 | W | 1529 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 1 | A | 95 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 1 | A | 210 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 1 | A | 867 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 1 | A | 1906 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 31 | W | 228 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 31 | W | 266 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 31 | W | 838 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 1 | A | 469 | A | C2-N3-C4 | 18.81 | 120.01 | 110.60 |
| 1 | A | 2047 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 2295 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 31 | W | 582 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 1 | A | 551 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 893 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 1258 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 1312 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 1675 | A | N1-C2-N3 | -18.81 | 119.90 | 129.30 |
| 1 | A | 2088 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 2455 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2782 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 2851 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 2862 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 81 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 1121 | A | N1-C2-N3 | -18.81 | 119.89 | 129.30 |
| 1 | A | 1746 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 2658 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 344 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 346 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 1112 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 1451 | A | N1-C2-N3 | -18.81 | 119.90 | 129.30 |
| 1 | A | 702 | A | N1-C2-N3 | -18.81 | 119.90 | 129.30 |
| 1 | A | 1029 | A | N1-C2-N3 | -18.81 | 119.90 | 129.30 |
| 1 | A | 1393 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 367 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 31 | W | 664 | A | C2-N3-C4 | 18.81 | 120.00 | 110.60 |
| 1 | A | 652 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 717 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 782 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1614 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 339 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 388 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1316 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1421 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 2365 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 2 | B | 43 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 738 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 799 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 268 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 389 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 582 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 592 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1620 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 1510 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 49 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 407 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 616 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 830 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 1174 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 1277 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1423 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 371 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1207 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 51 | 1 | 9 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1116 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 1699 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 644 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 847 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1308 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 2043 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 148 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 31 | W | 679 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 757 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 1120 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 653 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 699 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 1 | A | 1224 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1542 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 1895 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 2060 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 727 | A | N1-C2-N3 | -18.80 | 119.90 | 129.30 |
| 31 | W | 828 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 31 | W | 1272 | A | C2-N3-C4 | 18.80 | 120.00 | 110.60 |
| 1 | A | 260 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 2908 | A | N1-C2-N3 | -18.79 | 119.90 | 129.30 |
| 1 | A | 364 | A | N1-C2-N3 | -18.79 | 119.90 | 129.30 |
| 1 | A | 479 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 870 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 1230 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 1499 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 1601 | A | N1-C2-N3 | -18.79 | 119.90 | 129.30 |
| 1 | A | 1925 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 31 | W | 1206 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 31 | W | 1210 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 2787 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 2919 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 31 | W | 1513 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 51 | 1 | 70 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 971 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 1036 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 1788 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 1 | A | 2398 | A | C2-N3-C4 | 18.79 | 120.00 | 110.60 |
| 31 | W | 422 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 236 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 374 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 763 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 1005 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 1100 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 1461 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 1533 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 2262 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 31 | W | 496 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 31 | W | 1512 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 200 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 222 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 965 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 999 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 1269 | A | N1-C2-N3 | -18.79 | 119.91 | 129.30 |
| 1 | A | 1575 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 2831 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 31 | W | 605 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 31 | W | 882 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 31 | W | 1456 | A | C2-N3-C4 | 18.79 | 119.99 | 110.60 |
| 1 | A | 102 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 345 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 948 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 1287 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 1361 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 1648 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 2 | B | 64 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 669 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 679 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 31 | W | 724 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 730 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 31 | W | 1103 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 1419 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 2793 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 31 | W | 974 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 1036 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 1517 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 1776 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 2356 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 2505 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 2778 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 1149 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 1201 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1685 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 1967 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 2 | B | 56 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 1288 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 31 | W | 1503 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 279 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 575 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 894 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 957 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 1948 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 2303 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 2479 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 2594 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 2875 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 1 | A | 2923 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 925 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 1048 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 2027 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 1128 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 31 | W | 1259 | A | N1-C2-N3 | -18.78 | 119.91 | 129.30 |
| 31 | W | 1478 | A | C2-N3-C4 | 18.78 | 119.99 | 110.60 |
| 1 | A | 273 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 1 | A | 448 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 1 | A | 517 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 1 | A | 2595 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 31 | W | 120 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 31 | W | 281 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 31 | W | 382 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 31 | W | 1327 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 51 | 1 | 21 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 1 | A | 231 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 31 | W | 616 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 31 | W | 1417 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 1 | A | 746 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 1 | A | 1453 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 1948 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 1 | A | 2507 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 31 | W | 485 | A | N1-C2-N3 | -18.77 | 119.91 | 129.30 |
| 31 | W | 651 | A | C2-N3-C4 | 18.77 | 119.99 | 110.60 |
| 31 | W | 823 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 71 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 553 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1202 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 1 | A | 1424 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 1941 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 2876 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 31 | W | 204 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 31 | W | 1405 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 519 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 1 | A | 1042 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 1 | A | 1789 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 2 | B | 113 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 31 | W | 28 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 31 | W | 518 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 31 | W | 1111 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 31 | W | 1328 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 699 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 31 | W | 306 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 1677 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 1 | A | 1767 | A | N1-C2-N3 | -18.77 | 119.92 | 129.30 |
| 1 | A | 2303 | A | C2-N3-C4 | 18.77 | 119.98 | 110.60 |
| 1 | A | 268 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 548 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 851 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 1277 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 1686 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1809 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1906 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 2618 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 2734 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 31 | W | 1197 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 31 | W | 1234 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 6 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1326 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1517 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 2 | B | 39 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 278 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 763 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 970 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1679 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 2 | B | 11 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 31 | W | 1205 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 31 | W | 1248 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1188 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 2 | B | 55 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 31 | W | 1185 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 274 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 1072 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 1456 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 2091 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 2270 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 2517 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 2889 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 31 | W | 171 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 31 | W | 685 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 31 | W | 1092 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 31 | W | 1383 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 1 | A | 2417 | A | C2-N3-C4 | 18.76 | 119.98 | 110.60 |
| 31 | W | 1178 | A | N1-C2-N3 | -18.76 | 119.92 | 129.30 |
| 1 | A | 658 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 1 | A | 1194 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 2482 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 31 | W | 477 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 31 | W | 541 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 31 | W | 544 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 31 | W | 801 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 31 | W | 1442 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 21 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 1 | A | 219 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 1850 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 2532 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 1 | A | 2844 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 31 | W | 1143 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 31 | W | 1296 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 166 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 1 | A | 329 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 507 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 1581 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 1 | A | 1789 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 2316 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 1 | A | 2708 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 31 | W | 1528 | A | C2-N3-C4 | 18.75 | 119.98 | 110.60 |
| 31 | W | 500 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 31 | W | 532 | A | N1-C2-N3 | -18.75 | 119.92 | 129.30 |
| 31 | W | 703 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 207 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1061 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 1942 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 31 | W | 1271 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 1 | A | 770 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 868 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 2302 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 2497 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 2719 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 1 | A | 1020 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 1534 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 1 | A | 1617 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 1 | A | 2464 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 31 | W | 142 | A | C2-N3-C4 | 18.75 | 119.97 | 110.60 |
| 31 | W | 271 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 31 | W | 690 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 31 | W | 987 | A | N1-C2-N3 | -18.75 | 119.93 | 129.30 |
| 1 | A | 449 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 978 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 31 | W | 1541 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 259 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 1326 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 1593 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 1929 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 2860 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 31 | W | 501 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 31 | W | 1222 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 560 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 958 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 1814 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 1947 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 2819 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 31 | W | 296 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 829 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 1113 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 1695 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 2 | B | 55 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 31 | W | 62 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 31 | W | 569 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 31 | W | 1488 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 31 | W | 743 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 5 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 437 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 494 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 2358 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 2362 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 2619 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 1 | A | 2875 | A | C2-N3-C4 | 18.74 | 119.97 | 110.60 |
| 31 | W | 142 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 31 | W | 491 | A | N1-C2-N3 | -18.74 | 119.93 | 129.30 |
| 1 | A | 987 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 1 | A | 1113 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 31 | W | 541 | A | N1-C2-N3 | -18.73 | 119.93 | 129.30 |
| 31 | W | 825 | A | N1-C2-N3 | -18.73 | 119.93 | 129.30 |
| 31 | W | 917 | A | N1-C2-N3 | -18.73 | 119.93 | 129.30 |
| 31 | W | 1161 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 31 | W | 975 | A | N1-C2-N3 | -18.73 | 119.93 | 129.30 |
| 1 | A | 1179 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 1 | A | 1302 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 1 | A | 2904 | A | N1-C2-N3 | -18.73 | 119.93 | 129.30 |
| 31 | W | 308 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 31 | W | 923 | A | N1-C2-N3 | -18.73 | 119.93 | 129.30 |
| 31 | W | 1256 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 31 | W | 1470 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 888 | A | C2-N3-C4 | 18.73 | 119.97 | 110.60 |
| 31 | W | 266 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 31 | W | 296 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 31 | W | 306 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 31 | W | 993 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 31 | W | 1180 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 173 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 1 | A | 893 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 1244 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 2356 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 2708 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 31 | W | 592 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 31 | W | 791 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 31 | W | 1004 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 220 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 1 | A | 1797 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 31 | W | 923 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 1 | A | 622 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 1 | A | 896 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 1 | A | 1313 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |
| 1 | A | 2770 | A | N1-C2-N3 | -18.73 | 119.94 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 422 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 31 | W | 1493 | A | C2-N3-C4 | 18.73 | 119.96 | 110.60 |
| 1 | A | 1627 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 1882 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 178 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 389 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 31 | W | 544 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 28 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 1115 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 1340 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 1583 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 2673 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 2887 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 2 | B | 20 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 650 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 51 | y | 70 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 2357 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 415 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 532 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 1257 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 198 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 330 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 500 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 1142 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 1346 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 1532 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 1606 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 2421 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 2477 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 1188 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 1254 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 31 | W | 1443 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 373 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 1 | A | 1404 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 2661 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 31 | W | 232 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 240 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 31 | W | 401 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 875 | A | C2-N3-C4 | 18.72 | 119.96 | 110.60 |
| 31 | W | 978 | A | N1-C2-N3 | -18.72 | 119.94 | 129.30 |
| 1 | A | 769 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 31 | W | 189 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1434 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 618 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 1585 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 1 | A | 1721 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 1 | A | 2083 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 31 | W | 120 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 31 | W | 462 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 31 | W | 913 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 31 | W | 968 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 31 | W | 1065 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 1 | A | 337 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 673 | A | C2-N3-C4 | 18.71 | 119.96 | 110.60 |
| 1 | A | 1224 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 31 | W | 638 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 421 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 438 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 486 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 530 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 958 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 1034 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 1491 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 2436 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 51 | y | 58 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 216 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 1 | A | 1464 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 2 | B | 27 | A | N1-C2-N3 | -18.71 | 119.94 | 129.30 |
| 31 | W | 1006 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 110 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 124 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 619 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 1 | A | 781 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 1 | A | 1014 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 1056 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 1175 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 2398 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 2 | B | 114 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 31 | W | 372 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 31 | W | 401 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 31 | W | 879 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 31 | W | 1054 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 31 | W | 1463 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 1 | A | 339 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2066 | A | C2-N3-C4 | 18.71 | 119.95 | 110.60 |
| 31 | W | 367 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 31 | W | 1207 | A | N1-C2-N3 | -18.71 | 119.95 | 129.30 |
| 1 | A | 260 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 692 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 1540 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 1945 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 2 | B | 97 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 2 | B | 105 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 117 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 321 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 31 | W | 985 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 84 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 258 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 1054 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 1235 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 1700 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 1961 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 1998 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 2777 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 34 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 1056 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 53 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 224 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 762 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 31 | W | 173 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 324 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 1405 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 1569 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 18 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 335 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 31 | W | 496 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 31 | W | 529 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 31 | W | 757 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 31 | W | 1455 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 31 | W | 28 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 71 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 94 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 653 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 811 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 2080 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 2769 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 646 | A | C2-N3-C4 | 18.70 | 119.95 | 110.60 |
| 1 | A | 2810 | A | N1-C2-N3 | -18.70 | 119.95 | 129.30 |
| 1 | A | 429 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 1 | A | 1540 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 1723 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 1 | A | 2106 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 1 | A | 2315 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 2463 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 2526 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 1 | A | 2661 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 1 | A | 2907 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 2 | B | 17 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 504 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 31 | W | 1028 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 1077 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 1161 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 1359 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 31 | W | 1422 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 2750 | A | C2-N3-C4 | 18.69 | 119.95 | 110.60 |
| 31 | W | 555 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 1248 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 224 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 538 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 623 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 1161 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 2307 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 31 | W | 659 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 684 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 725 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 31 | W | 768 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 816 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 229 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 1056 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 2570 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 519 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 31 | W | 1213 | A | N1-C2-N3 | -18.69 | 119.95 | 129.30 |
| 1 | A | 176 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 1 | A | 888 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 1 | A | 1412 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 2462 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 1 | A | 2851 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 31 | W | 925 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1386 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 166 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 1 | A | 421 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 1 | A | 2276 | A | C2-N3-C4 | 18.69 | 119.94 | 110.60 |
| 31 | W | 195 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 31 | W | 1048 | A | N1-C2-N3 | -18.69 | 119.96 | 129.30 |
| 1 | A | 2297 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 2327 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 2390 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 2 | B | 13 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 170 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 234 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 886 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 1102 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 1140 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 1328 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 1818 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1956 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 2734 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 258 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 479 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 1155 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 14 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 247 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1340 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1648 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 419 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 463 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 790 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 1283 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 73 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 194 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1619 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1809 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 1928 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 2827 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 203 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 568 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 519 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 696 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 1291 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1375 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1620 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 2542 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 1 | A | 2658 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 202 | A | N1-C2-N3 | -18.68 | 119.96 | 129.30 |
| 31 | W | 254 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 604 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 31 | W | 1427 | A | C2-N3-C4 | 18.68 | 119.94 | 110.60 |
| 1 | A | 1465 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 2923 | A | N1-C2-N3 | -18.67 | 119.96 | 129.30 |
| 1 | A | 168 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 302 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 1084 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 1768 | A | N1-C2-N3 | -18.67 | 119.96 | 129.30 |
| 1 | A | 1945 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 31 | W | 879 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 144 | A | N1-C2-N3 | -18.67 | 119.96 | 129.30 |
| 1 | A | 305 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 868 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 1027 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 1179 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 1323 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 1339 | A | N1-C2-N3 | -18.67 | 119.96 | 129.30 |
| 1 | A | 1580 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 1608 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 2078 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 31 | W | 933 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 2316 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 31 | W | 786 | A | C2-N3-C4 | 18.67 | 119.94 | 110.60 |
| 1 | A | 475 | A | C2-N3-C4 | 18.67 | 119.93 | 110.60 |
| 1 | A | 835 | A | C2-N3-C4 | 18.67 | 119.93 | 110.60 |
| 1 | A | 1434 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 1536 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 31 | W | 178 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 31 | W | 618 | A | C2-N3-C4 | 18.67 | 119.93 | 110.60 |
| 31 | W | 777 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 1078 | A | C2-N3-C4 | 18.67 | 119.93 | 110.60 |
| 31 | W | 910 | A | C2-N3-C4 | 18.67 | 119.93 | 110.60 |
| 31 | W | 975 | A | C2-N3-C4 | 18.67 | 119.93 | 110.60 |
| 31 | W | 1090 | A | N1-C2-N3 | -18.67 | 119.97 | 129.30 |
| 1 | A | 124 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 193 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 428 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 578 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 758 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1149 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 1850 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 2062 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 2389 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 323 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 462 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 582 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1314 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1335 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 2317 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 2683 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 31 | W | 460 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 31 | W | 658 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 1407 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 647 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 774 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 1381 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 1791 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 2307 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 117 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 1103 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1360 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 2406 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 31 | W | 1260 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 459 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 2365 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 118 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 31 | W | 344 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 568 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 31 | W | 630 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 325 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 51 | y | 9 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 117 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 1 | A | 908 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1654 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1802 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1966 | A | C2-N3-C4 | 18.66 | 119.93 | 110.60 |
| 31 | W | 979 | A | N1-C2-N3 | -18.66 | 119.97 | 129.30 |
| 1 | A | 1942 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |
| 31 | W | 1017 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 230 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |
| 1 | A | 584 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |
| 1 | A | 1008 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |
| 1 | A | 1253 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |
| 1 | A | 1592 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 31 | W | 209 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 31 | W | 522 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 31 | W | 1238 | A | C2-N3-C4 | 18.65 | 119.93 | 110.60 |
| 1 | A | 1175 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 31 | W | 190 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 1 | A | 354 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 1 | A | 1201 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 1 | A | 1287 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 1 | A | 1768 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 1 | A | 1797 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 1 | A | 1967 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 1 | A | 2571 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 31 | W | 281 | A | N1-C2-N3 | -18.65 | 119.97 | 129.30 |
| 31 | W | 500 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 31 | W | 705 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 31 | W | 1050 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 31 | W | 583 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 10 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 376 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 1504 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 1 | A | 1679 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 2071 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 2276 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 2590 | A | C2-N3-C4 | 18.65 | 119.92 | 110.60 |
| 2 | B | 44 | A | N1-C2-N3 | -18.65 | 119.98 | 129.30 |
| 1 | A | 1027 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 2542 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 2740 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 1417 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 140 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 162 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 537 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 1047 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 2407 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 2762 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 2778 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 225 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 287 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 94 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 1140 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 12 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 61 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 2845 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 2904 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 796 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 727 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 1042 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 1412 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 1499 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 1553 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 2364 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 2405 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 10 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 1200 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 1284 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 1386 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 684 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 1210 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 302 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 991 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 1 | A | 1813 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 290 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 508 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 823 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 31 | W | 1254 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 1366 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 1512 | A | C2-N3-C4 | 18.64 | 119.92 | 110.60 |
| 31 | W | 1513 | A | N1-C2-N3 | -18.64 | 119.98 | 129.30 |
| 1 | A | 150 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 31 | W | 390 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 333 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 753 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 1 | A | 1034 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 1901 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 31 | W | 918 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 31 | W | 1092 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 31 | W | 1297 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 31 | W | 1479 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 1 | A | 436 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 828 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 1 | A | 1593 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 1721 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 1913 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 2405 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 1 | A | 2480 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 31 | W | 928 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 1 | A | 275 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 1 | A | 1432 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 1 | A | 2080 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 2511 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 31 | W | 616 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 31 | W | 705 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 31 | W | 777 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 31 | W | 911 | A | C2-N3-C4 | 18.63 | 119.92 | 110.60 |
| 31 | W | 1503 | A | N1-C2-N3 | -18.63 | 119.98 | 129.30 |
| 1 | A | 2837 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 31 | W | 204 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 31 | W | 618 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 31 | W | 677 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 31 | W | 816 | A | C2-N3-C4 | 18.63 | 119.91 | 110.60 |
| 31 | W | 1179 | A | N1-C2-N3 | -18.63 | 119.99 | 129.30 |
| 1 | A | 388 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 746 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 1084 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 1265 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 1533 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 2547 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 2770 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 31 | W | 758 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 322 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 1066 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 1520 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 1888 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 2468 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 2594 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 31 | W | 1006 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 1130 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 31 | W | 129 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 1802 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 2298 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 2869 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 837 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 31 | W | 1289 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 199 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 31 | W | 724 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 2482 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 1 | A | 2627 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 2663 | A | N1-C2-N3 | -18.62 | 119.99 | 129.30 |
| 31 | W | 1434 | A | C2-N3-C4 | 18.62 | 119.91 | 110.60 |
| 1 | A | 38 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 1 | A | 1735 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 1 | A | 2848 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 2 | B | 39 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 31 | W | 251 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 31 | W | 314 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 31 | W | 1257 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 1 | A | 679 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 1 | A | 943 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 1 | A | 2059 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 1 | A | 2595 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 1 | A | 2601 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 31 | W | 1176 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 1 | A | 102 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 1 | A | 178 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 1 | A | 1243 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 1745 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 1 | A | 1839 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 31 | W | 189 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 31 | W | 1466 | A | N1-C2-N3 | -18.61 | 119.99 | 129.30 |
| 1 | A | 999 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 1406 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 1995 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 2338 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 2 | B | 17 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 31 | W | 329 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 31 | W | 651 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 31 | W | 1024 | A | C2-N3-C4 | 18.61 | 119.91 | 110.60 |
| 31 | W | 1528 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 740 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 1 | A | 1541 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 2662 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 31 | W | 76 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 835 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1465 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 2395 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 1 | A | 2793 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 2 | B | 37 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 31 | W | 52 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 31 | W | 475 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 31 | W | 1115 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 31 | W | 1333 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 1 | A | 1074 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 2593 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 31 | W | 210 | A | C2-N3-C4 | 18.61 | 119.90 | 110.60 |
| 31 | W | 1050 | A | N1-C2-N3 | -18.61 | 120.00 | 129.30 |
| 1 | A | 524 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 584 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 786 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 1734 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 31 | W | 581 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 2364 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 2804 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 219 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 1663 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 31 | W | 160 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 31 | W | 776 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 31 | W | 1422 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 470 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 494 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 2779 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 2786 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 2834 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 2900 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 412 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 782 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 1197 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 1697 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 2339 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 2 | B | 113 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 31 | W | 290 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 31 | W | 799 | A | N1-C2-N3 | -18.60 | 120.00 | 129.30 |
| 1 | A | 2846 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 31 | W | 53 | A | C2-N3-C4 | 18.60 | 119.90 | 110.60 |
| 1 | A | 202 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 1680 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2030 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 1 | A | 2296 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 31 | W | 35 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 31 | W | 883 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 1 | A | 1254 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 2440 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 31 | W | 1294 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 1 | A | 5 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 254 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 1 | A | 448 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 876 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 1516 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 31 | W | 423 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 31 | W | 776 | A | C2-N3-C4 | 18.59 | 119.90 | 110.60 |
| 1 | A | 259 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 2787 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 41 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 1 | A | 65 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 1 | A | 199 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 1615 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 1 | A | 1812 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 1 | A | 2030 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 1 | A | 2034 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 1 | A | 2461 | A | N1-C2-N3 | -18.59 | 120.00 | 129.30 |
| 1 | A | 2902 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 31 | W | 474 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 31 | W | 583 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 31 | W | 672 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 1 | A | 355 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 1 | A | 993 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 1 | A | 1876 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 2 | B | 76 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 31 | W | 352 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 31 | W | 811 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 31 | W | 959 | A | C2-N3-C4 | 18.59 | 119.89 | 110.60 |
| 31 | W | 1296 | A | N1-C2-N3 | -18.59 | 120.01 | 129.30 |
| 31 | W | 1456 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 156 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 1092 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 1210 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 1895 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 31 | W | 786 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 811 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 1021 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 110 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 202 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 384 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 1339 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 1585 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 1989 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 2000 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 31 | W | 1466 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 126 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 318 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 2060 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 31 | W | 203 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 31 | W | 459 | A | C2-N3-C4 | 18.58 | 119.89 | 110.60 |
| 1 | A | 490 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 600 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 1655 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 31 | W | 793 | A | N1-C2-N3 | -18.58 | 120.01 | 129.30 |
| 1 | A | 774 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 1 | A | 1020 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 1 | A | 1260 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 1 | A | 1575 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 1 | A | 2417 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 31 | W | 67 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 31 | W | 210 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 1 | A | 1134 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 31 | W | 1270 | A | C2-N3-C4 | 18.57 | 119.89 | 110.60 |
| 31 | W | 1270 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 31 | W | 1348 | A | C2-N3-C4 | 18.57 | 119.89 | 110.60 |
| 1 | A | 52 | A | C2-N3-C4 | 18.57 | 119.89 | 110.60 |
| 1 | A | 1075 | A | C2-N3-C4 | 18.57 | 119.89 | 110.60 |
| 1 | A | 1221 | A | C2-N3-C4 | 18.57 | 119.89 | 110.60 |
| 31 | W | 1090 | A | C2-N3-C4 | 18.57 | 119.89 | 110.60 |
| 31 | W | 1147 | A | N1-C2-N3 | -18.57 | 120.01 | 129.30 |
| 1 | A | 646 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 31 | W | 352 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 207 | A | C2-N3-C4 | 18.57 | 119.88 | 110.60 |
| 1 | A | 559 | A | C2-N3-C4 | 18.57 | 119.88 | 110.60 |
| 1 | A | 616 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 1361 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 1743 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1245 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 51 | y | 44 | A | C2-N3-C4 | 18.57 | 119.88 | 110.60 |
| 1 | A | 6 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 373 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 31 | W | 548 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 1815 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 2087 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 2441 | A | C2-N3-C4 | 18.57 | 119.88 | 110.60 |
| 1 | A | 2750 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 2 | B | 20 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 31 | W | 107 | A | C2-N3-C4 | 18.57 | 119.88 | 110.60 |
| 31 | W | 372 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 31 | W | 1236 | A | N1-C2-N3 | -18.57 | 120.02 | 129.30 |
| 1 | A | 1161 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 1190 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 2381 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 2924 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 198 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 947 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 2704 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 1315 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 2 | B | 97 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 1509 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 325 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 722 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 1055 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 1580 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 1883 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 2454 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 2 | B | 105 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 139 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 452 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 1188 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 1699 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 200 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 459 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 1 | A | 2835 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 1 | A | 2860 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 234 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 323 | A | C2-N3-C4 | 18.56 | 119.88 | 110.60 |
| 31 | W | 460 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |
| 31 | W | 1022 | A | N1-C2-N3 | -18.56 | 120.02 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 543 | A | C2-N3-C4 | 18.55 | 119.88 | 110.60 |
| 1 | A | 2782 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 31 | W | 1252 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 1 | A | 244 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 1 | A | 549 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 1 | A | 1423 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 1 | A | 2297 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 31 | W | 1222 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 31 | W | 1442 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 1 | A | 326 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 1 | A | 574 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 1 | A | 1569 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 31 | W | 287 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 31 | W | 803 | A | C2-N3-C4 | 18.55 | 119.88 | 110.60 |
| 31 | W | 1206 | A | N1-C2-N3 | -18.55 | 120.02 | 129.30 |
| 31 | W | 1031 | A | C2-N3-C4 | 18.55 | 119.88 | 110.60 |
| 1 | A | 14 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 1 | A | 866 | A | C2-N3-C4 | 18.55 | 119.87 | 110.60 |
| 1 | A | 1788 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 31 | W | 236 | A | C2-N3-C4 | 18.55 | 119.87 | 110.60 |
| 31 | W | 270 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 1 | A | 117 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 1 | A | 353 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 1 | A | 661 | A | C2-N3-C4 | 18.55 | 119.87 | 110.60 |
| 1 | A | 2805 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 2 | B | 50 | A | N1-C2-N3 | -18.55 | 120.03 | 129.30 |
| 1 | A | 1709 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 31 | W | 738 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 67 | A | C2-N3-C4 | 18.54 | 119.87 | 110.60 |
| 1 | A | 517 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 1686 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 2 | B | 43 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 31 | W | 278 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 987 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 31 | W | 650 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 51 | 1 | 58 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 13 | A | C2-N3-C4 | 18.54 | 119.87 | 110.60 |
| 31 | W | 1189 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 1981 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 51 | 1 | 76 | A | C2-N3-C4 | 18.54 | 119.87 | 110.60 |
| 1 | A | 171 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 1014 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1722 | A | C2-N3-C4 | 18.54 | 119.87 | 110.60 |
| 1 | A | 2526 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 31 | W | 910 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 31 | W | 1479 | A | N1-C2-N3 | -18.54 | 120.03 | 129.30 |
| 1 | A | 678 | A | C2-N3-C4 | 18.53 | 119.87 | 110.60 |
| 31 | W | 335 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 31 | W | 996 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 1901 | A | C2-N3-C4 | 18.53 | 119.87 | 110.60 |
| 31 | W | 1014 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 206 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 537 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 922 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 1445 | A | C2-N3-C4 | 18.53 | 119.86 | 110.60 |
| 1 | A | 2357 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 31 | W | 62 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 31 | W | 114 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 31 | W | 611 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 31 | W | 1486 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 183 | A | C2-N3-C4 | 18.53 | 119.86 | 110.60 |
| 1 | A | 1820 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 2629 | A | C2-N3-C4 | 18.53 | 119.86 | 110.60 |
| 31 | W | 1437 | A | N1-C2-N3 | -18.53 | 120.03 | 129.30 |
| 1 | A | 225 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 1 | A | 343 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 1 | A | 1556 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 1 | A | 1636 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 31 | W | 128 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 1 | A | 786 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 31 | W | 236 | A | N1-C2-N3 | -18.53 | 120.04 | 129.30 |
| 1 | A | 2912 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 31 | W | 902 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 31 | W | 1197 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 31 | W | 1225 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 1 | A | 753 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 1025 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 1 | A | 1746 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 2006 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 1 | A | 1092 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 1606 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 31 | W | 439 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 436 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 1054 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1221 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 2810 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 31 | W | 209 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 31 | W | 831 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 31 | W | 1359 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 354 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 355 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 2885 | A | C2-N3-C4 | 18.52 | 119.86 | 110.60 |
| 1 | A | 692 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 1019 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 1534 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 1966 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 2049 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 2390 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 2826 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 31 | W | 337 | A | N1-C2-N3 | -18.52 | 120.04 | 129.30 |
| 1 | A | 462 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 1 | A | 727 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 1 | A | 1047 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 1 | A | 2643 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 1 | A | 2830 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 31 | W | 862 | A | C2-N3-C4 | 18.51 | 119.86 | 110.60 |
| 1 | A | 1073 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 2 | B | 37 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 1 | A | 244 | A | C2-N3-C4 | 18.51 | 119.86 | 110.60 |
| 31 | W | 81 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 31 | W | 346 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 31 | W | 828 | A | N1-C2-N3 | -18.51 | 120.04 | 129.30 |
| 1 | A | 630 | A | C2-N3-C4 | 18.51 | 119.85 | 110.60 |
| 1 | A | 1393 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 1 | A | 133 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 1 | A | 2007 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 1 | A | 2047 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 1 | A | 2754 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 31 | W | 929 | A | C2-N3-C4 | 18.51 | 119.85 | 110.60 |
| 1 | A | 343 | A | C2-N3-C4 | 18.51 | 119.85 | 110.60 |
| 1 | A | 622 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 1 | A | 971 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 31 | W | 1017 | A | N1-C2-N3 | -18.51 | 120.05 | 129.30 |
| 1 | A | 281 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 1588 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 1812 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1672 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 307 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 894 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 2805 | A | C2-N3-C4 | 18.50 | 119.85 | 110.60 |
| 1 | A | 829 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 2059 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 689 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 2722 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 31 | W | 463 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 1724 | A | C2-N3-C4 | 18.50 | 119.85 | 110.60 |
| 1 | A | 752 | A | C2-N3-C4 | 18.50 | 119.85 | 110.60 |
| 1 | A | 1477 | A | C2-N3-C4 | 18.50 | 119.85 | 110.60 |
| 1 | A | 2343 | A | N1-C2-N3 | -18.50 | 120.05 | 129.30 |
| 1 | A | 2606 | A | C2-N3-C4 | 18.50 | 119.85 | 110.60 |
| 1 | A | 84 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 2 | B | 18 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 31 | W | 371 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 1 | A | 1230 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 1 | A | 1583 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 31 | W | 803 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 1 | A | 1066 | A | N1-C2-N3 | -18.49 | 120.05 | 129.30 |
| 31 | W | 572 | A | N1-C2-N3 | -18.49 | 120.06 | 129.30 |
| 1 | A | 561 | A | C2-N3-C4 | 18.49 | 119.84 | 110.60 |
| 1 | A | 1831 | A | C2-N3-C4 | 18.49 | 119.84 | 110.60 |
| 51 | 1 | 23 | A | N1-C2-N3 | -18.49 | 120.06 | 129.30 |
| 1 | A | 1504 | A | N1-C2-N3 | -18.49 | 120.06 | 129.30 |
| 1 | A | 917 | A | N1-C2-N3 | -18.49 | 120.06 | 129.30 |
| 1 | A | 1335 | A | N1-C2-N3 | -18.49 | 120.06 | 129.30 |
| 31 | W | 704 | A | N1-C2-N3 | -18.49 | 120.06 | 129.30 |
| 1 | A | 265 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1483 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 2498 | A | C2-N3-C4 | 18.48 | 119.84 | 110.60 |
| 1 | A | 2691 | A | C2-N3-C4 | 18.48 | 119.84 | 110.60 |
| 31 | W | 1403 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 964 | A | C2-N3-C4 | 18.48 | 119.84 | 110.60 |
| 2 | B | 64 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 329 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 330 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1631 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1791 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 2694 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 130 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 507 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1832 | A | C2-N3-C4 | 18.48 | 119.84 | 110.60 |
| 1 | A | 1965 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1653 | A | C2-N3-C4 | 18.48 | 119.84 | 110.60 |
| 1 | A | 1838 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 31 | W | 1384 | A | C2-N3-C4 | 18.48 | 119.84 | 110.60 |
| 1 | A | 2298 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 2498 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 31 | W | 1517 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1100 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 1697 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 31 | W | 53 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 31 | W | 1405 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 51 | y | 58 | A | N1-C2-N3 | -18.48 | 120.06 | 129.30 |
| 1 | A | 150 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 1774 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 501 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 1059 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 1722 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 2381 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 31 | W | 140 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 51 | y | 23 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 2349 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 2616 | A | C2-N3-C4 | 18.47 | 119.83 | 110.60 |
| 31 | W | 459 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 31 | W | 762 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 31 | W | 1176 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 31 | W | 1188 | A | N1-C2-N3 | -18.47 | 120.06 | 129.30 |
| 1 | A | 1008 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 1 | A | 1877 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 31 | W | 329 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 31 | W | 391 | A | C2-N3-C4 | 18.47 | 119.83 | 110.60 |
| 1 | A | 2441 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 1 | A | 2670 | A | C2-N3-C4 | 18.47 | 119.83 | 110.60 |
| 1 | A | 2794 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 31 | W | 743 | A | N1-C2-N3 | -18.47 | 120.07 | 129.30 |
| 1 | A | 1542 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 2330 | A | C2-N3-C4 | 18.46 | 119.83 | 110.60 |
| 31 | W | 1284 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 229 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 449 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 553 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2369 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 31 | W | 604 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 31 | W | 956 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 31 | W | 1297 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 705 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 194 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 369 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 518 | A | C2-N3-C4 | 18.46 | 119.83 | 110.60 |
| 1 | A | 991 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 1618 | A | C2-N3-C4 | 18.46 | 119.83 | 110.60 |
| 31 | W | 1024 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 230 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 637 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 1006 | A | C2-N3-C4 | 18.46 | 119.83 | 110.60 |
| 1 | A | 882 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 1848 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 2302 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 31 | W | 988 | A | C2-N3-C4 | 18.46 | 119.83 | 110.60 |
| 1 | A | 2000 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 2804 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 31 | W | 504 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 31 | W | 1435 | A | N1-C2-N3 | -18.46 | 120.07 | 129.30 |
| 1 | A | 724 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 1 | A | 1845 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 31 | W | 644 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 1 | A | 274 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 1 | A | 456 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 1 | A | 1723 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 1 | A | 1815 | A | C2-N3-C4 | 18.45 | 119.83 | 110.60 |
| 1 | A | 1424 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 2 | B | 56 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 31 | W | 685 | A | N1-C2-N3 | -18.45 | 120.07 | 129.30 |
| 1 | A | 2560 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 31 | W | 929 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 1 | A | 917 | A | C2-N3-C4 | 18.45 | 119.82 | 110.60 |
| 31 | W | 969 | A | C2-N3-C4 | 18.45 | 119.82 | 110.60 |
| 31 | W | 1128 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 31 | W | 1490 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 1 | A | 952 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 1 | A | 1291 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 31 | W | 107 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |
| 1 | A | 1998 | A | N1-C2-N3 | -18.45 | 120.08 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 428 | A | N1-C2-N3 | -18.44 | 120.08 | 129.30 |
| 1 | A | 889 | A | N1-C2-N3 | -18.44 | 120.08 | 129.30 |
| 31 | W | 1523 | A | N1-C2-N3 | -18.44 | 120.08 | 129.30 |
| 1 | A | 345 | A | N1-C2-N3 | -18.44 | 120.08 | 129.30 |
| 1 | A | 2111 | A | N1-C2-N3 | -18.44 | 120.08 | 129.30 |
| 1 | A | 2387 | A | C2-N3-C4 | 18.44 | 119.82 | 110.60 |
| 31 | W | 664 | A | N1-C2-N3 | -18.44 | 120.08 | 129.30 |
| 1 | A | 904 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 1 | A | 1357 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 31 | W | 118 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 31 | W | 173 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 31 | W | 945 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 1 | A | 247 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 1 | A | 1346 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 31 | W | 1294 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 1 | A | 67 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 1 | A | 125 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 1 | A | 1727 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 31 | W | 474 | A | N1-C2-N3 | -18.43 | 120.08 | 129.30 |
| 1 | A | 429 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 31 | W | 1341 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 1 | A | 179 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 1 | A | 236 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 31 | W | 874 | A | N1-C2-N3 | -18.43 | 120.09 | 129.30 |
| 1 | A | 1284 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 1323 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 1982 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 1989 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 2042 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 31 | W | 669 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 193 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 548 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 31 | W | 969 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 31 | W | 1278 | A | C2-N3-C4 | 18.42 | 119.81 | 110.60 |
| 51 | y | 41 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 974 | A | C2-N3-C4 | 18.42 | 119.81 | 110.60 |
| 1 | A | 1078 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 1999 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 2827 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 31 | W | 671 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 31 | W | 771 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |
| 1 | A | 1461 | A | N1-C2-N3 | -18.42 | 120.09 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 790 | A | N1-C2-N3 | -18.41 | 120.09 | 129.30 |
| 1 | A | 2043 | A | N1-C2-N3 | -18.41 | 120.09 | 129.30 |
| 1 | A | 431 | A | N1-C2-N3 | -18.41 | 120.09 | 129.30 |
| 1 | A | 525 | A | C2-N3-C4 | 18.41 | 119.80 | 110.60 |
| 1 | A | 1818 | A | N1-C2-N3 | -18.41 | 120.10 | 129.30 |
| 31 | W | 1016 | A | N1-C2-N3 | -18.41 | 120.10 | 129.30 |
| 31 | W | 1383 | A | N1-C2-N3 | -18.41 | 120.09 | 129.30 |
| 1 | A | 1312 | A | N1-C2-N3 | -18.41 | 120.10 | 129.30 |
| 1 | A | 2296 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 51 | 1 | 76 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 561 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 1096 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 1426 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 2340 | A | C2-N3-C4 | 18.40 | 119.80 | 110.60 |
| 1 | A | 2459 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 31 | W | 1065 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 1614 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 2006 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 2454 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 1 | A | 90 | A | C2-N3-C4 | 18.40 | 119.80 | 110.60 |
| 1 | A | 173 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 31 | W | 918 | A | N1-C2-N3 | -18.40 | 120.10 | 129.30 |
| 31 | W | 161 | A | C2-N3-C4 | 18.39 | 119.80 | 110.60 |
| 1 | A | 496 | A | N1-C2-N3 | -18.39 | 120.10 | 129.30 |
| 1 | A | 1882 | A | N1-C2-N3 | -18.39 | 120.10 | 129.30 |
| 1 | A | 2387 | A | N1-C2-N3 | -18.39 | 120.10 | 129.30 |
| 1 | A | 722 | A | N1-C2-N3 | -18.39 | 120.10 | 129.30 |
| 1 | A | 1667 | A | N1-C2-N3 | -18.39 | 120.10 | 129.30 |
| 31 | W | 161 | A | N1-C2-N3 | -18.39 | 120.10 | 129.30 |
| 31 | W | 1443 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 592 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 1734 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 1885 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 2044 | A | C2-N3-C4 | 18.39 | 119.79 | 110.60 |
| 1 | A | 2464 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 2835 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 31 | W | 34 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 543 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 2846 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 1 | A | 2854 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 31 | W | 518 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |
| 31 | W | 1225 | A | N1-C2-N3 | -18.39 | 120.11 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 896 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 904 | A | C2-N3-C4 | 18.38 | 119.79 | 110.60 |
| 1 | A | 2026 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 2601 | A | C2-N3-C4 | 18.38 | 119.79 | 110.60 |
| 31 | W | 1493 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 51 | 1 | 44 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 1381 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 1956 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 31 | W | 72 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 673 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 31 | W | 617 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 390 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 623 | A | N1-C2-N3 | -18.38 | 120.11 | 129.30 |
| 1 | A | 140 | A | N1-C2-N3 | -18.37 | 120.11 | 129.30 |
| 1 | A | 490 | A | C2-N3-C4 | 18.37 | 119.79 | 110.60 |
| 1 | A | 44 | A | N1-C2-N3 | -18.37 | 120.11 | 129.30 |
| 31 | W | 1427 | A | N1-C2-N3 | -18.37 | 120.11 | 129.30 |
| 1 | A | 525 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 1126 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 2395 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 2517 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 2689 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 31 | W | 911 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 31 | W | 1320 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 220 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 2700 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 31 | W | 928 | A | N1-C2-N3 | -18.37 | 120.12 | 129.30 |
| 1 | A | 1253 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 1392 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 956 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 51 | 1 | 41 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 51 | 1 | 70 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 870 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 2406 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 690 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 993 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 1130 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 1222 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 964 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 31 | W | 1054 | A | N1-C2-N3 | -18.36 | 120.12 | 129.30 |
| 1 | A | 1627 | A | N1-C2-N3 | -18.35 | 120.12 | 129.30 |
| 31 | W | 314 | A | N1-C2-N3 | -18.35 | 120.12 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 51 | y | 44 | A | N1-C2-N3 | -18.35 | 120.12 | 129.30 |
| 1 | A | 770 | A | N1-C2-N3 | -18.35 | 120.12 | 129.30 |
| 1 | A | 2616 | A | N1-C2-N3 | -18.35 | 120.12 | 129.30 |
| 1 | A | 538 | A | N1-C2-N3 | -18.35 | 120.13 | 129.30 |
| 1 | A | 2590 | A | N1-C2-N3 | -18.35 | 120.13 | 129.30 |
| 1 | A | 2887 | A | N1-C2-N3 | -18.35 | 120.13 | 129.30 |
| 31 | W | 301 | A | N1-C2-N3 | -18.35 | 120.13 | 129.30 |
| 1 | A | 279 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 1021 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 31 | W | 1283 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 51 | y | 70 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 1695 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 1197 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 31 | W | 433 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 31 | W | 1026 | A | C2-N3-C4 | 18.34 | 119.77 | 110.60 |
| 1 | A | 1615 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 2447 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 2477 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 2497 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 1094 | A | C2-N3-C4 | 18.34 | 119.77 | 110.60 |
| 1 | A | 1103 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 1 | A | 1445 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 31 | W | 883 | A | N1-C2-N3 | -18.34 | 120.13 | 129.30 |
| 31 | W | 875 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 1 | A | 634 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 1 | A | 1233 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 1 | A | 1235 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 1 | A | 2831 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 31 | W | 649 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 1 | A | 13 | A | N1-C2-N3 | -18.33 | 120.13 | 129.30 |
| 1 | A | 1957 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 1 | A | 2924 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 1 | A | 1003 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 1 | A | 1619 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 1 | A | 2468 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 31 | W | 160 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 31 | W | 984 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 31 | W | 1478 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 1 | A | 1947 | A | N1-C2-N3 | -18.33 | 120.14 | 129.30 |
| 1 | A | 391 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 769 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 1442 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2500 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 2919 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 31 | W | 1366 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 518 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 2383 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 31 | W | 57 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 31 | W | 831 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 1286 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 1 | A | 1888 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 31 | W | 1031 | A | N1-C2-N3 | -18.32 | 120.14 | 129.30 |
| 31 | W | 1425 | A | N1-C2-N3 | -18.31 | 120.14 | 129.30 |
| 31 | W | 397 | A | N1-C2-N3 | -18.31 | 120.14 | 129.30 |
| 31 | W | 725 | A | N1-C2-N3 | -18.31 | 120.14 | 129.30 |
| 1 | A | 2383 | A | C2-N3-C4 | 18.31 | 119.75 | 110.60 |
| 1 | A | 2330 | A | N1-C2-N3 | -18.31 | 120.15 | 129.30 |
| 31 | W | 672 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 1 | A | 1957 | A | C2-N3-C4 | 18.30 | 119.75 | 110.60 |
| 31 | W | 913 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 31 | W | 1463 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 1 | A | 559 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 1 | A | 1025 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 1 | A | 1961 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 31 | W | 1349 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 1 | A | 2052 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 31 | W | 512 | A | N1-C2-N3 | -18.30 | 120.15 | 129.30 |
| 1 | A | 61 | A | N1-C2-N3 | -18.29 | 120.15 | 129.30 |
| 31 | W | 364 | A | N1-C2-N3 | -18.29 | 120.15 | 129.30 |
| 31 | W | 1238 | A | N1-C2-N3 | -18.29 | 120.15 | 129.30 |
| 31 | W | 948 | A | N1-C2-N3 | -18.29 | 120.16 | 129.30 |
| 1 | A | 1776 | A | N1-C2-N3 | -18.29 | 120.16 | 129.30 |
| 1 | A | 278 | A | N1-C2-N3 | -18.29 | 120.16 | 129.30 |
| 1 | A | 1194 | A | N1-C2-N3 | -18.29 | 120.16 | 129.30 |
| 1 | A | 1075 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 31 | W | 308 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 1 | A | 2505 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 31 | W | 55 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 1 | A | 2106 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 1 | A | 656 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 1 | A | 1745 | A | N1-C2-N3 | -18.28 | 120.16 | 129.30 |
| 1 | A | 1982 | A | C2-N3-C4 | 18.28 | 119.74 | 110.60 |
| 1 | A | 168 | A | N1-C2-N3 | -18.27 | 120.16 | 129.30 |
| 31 | W | 882 | A | N1-C2-N3 | -18.27 | 120.16 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 667 | A | C2-N3-C4 | 18.27 | 119.73 | 110.60 |
| 31 | W | 1384 | A | N1-C2-N3 | -18.27 | 120.17 | 129.30 |
| 1 | A | 1477 | A | N1-C2-N3 | -18.27 | 120.17 | 129.30 |
| 1 | A | 740 | A | N1-C2-N3 | -18.27 | 120.17 | 129.30 |
| 1 | A | 913 | A | N1-C2-N3 | -18.26 | 120.17 | 129.30 |
| 1 | A | 1900 | A | N1-C2-N3 | -18.26 | 120.17 | 129.30 |
| 1 | A | 2790 | A | N1-C2-N3 | -18.26 | 120.17 | 129.30 |
| 31 | W | 1112 | A | N1-C2-N3 | -18.26 | 120.17 | 129.30 |
| 1 | A | 486 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 1 | A | 1265 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 1 | A | 2619 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 31 | W | 1315 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 1 | A | 2340 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 1 | A | 2812 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 1 | A | 95 | A | N1-C2-N3 | -18.25 | 120.17 | 129.30 |
| 1 | A | 469 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 1 | A | 1485 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 1 | A | 1831 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 31 | W | 715 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 1 | A | 1258 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 1 | A | 1925 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 1 | A | 2100 | A | N1-C2-N3 | -18.25 | 120.18 | 129.30 |
| 1 | A | 1003 | A | C2-N3-C4 | 18.24 | 119.72 | 110.60 |
| 1 | A | 1816 | A | N1-C2-N3 | -18.24 | 120.18 | 129.30 |
| 1 | A | 752 | A | N1-C2-N3 | -18.24 | 120.18 | 129.30 |
| 1 | A | 513 | A | C2-N3-C4 | 18.24 | 119.72 | 110.60 |
| 1 | A | 2066 | A | N1-C2-N3 | -18.23 | 120.18 | 129.30 |
| 1 | A | 1724 | A | N1-C2-N3 | -18.23 | 120.18 | 129.30 |
| 1 | A | 2440 | A | N1-C2-N3 | -18.23 | 120.19 | 129.30 |
| 1 | A | 258 | A | N1-C2-N3 | -18.23 | 120.19 | 129.30 |
| 1 | A | 1858 | A | N1-C2-N3 | -18.23 | 120.19 | 129.30 |
| 1 | A | 578 | A | N1-C2-N3 | -18.23 | 120.19 | 129.30 |
| 1 | A | 1832 | A | N1-C2-N3 | -18.23 | 120.19 | 129.30 |
| 31 | W | 605 | A | N1-C2-N3 | -18.23 | 120.19 | 129.30 |
| 1 | A | 2629 | A | N1-C2-N3 | -18.22 | 120.19 | 129.30 |
| 1 | A | 630 | A | N1-C2-N3 | -18.22 | 120.19 | 129.30 |
| 31 | W | 1272 | A | N1-C2-N3 | -18.22 | 120.19 | 129.30 |
| 1 | A | 2270 | A | N1-C2-N3 | -18.22 | 120.19 | 129.30 |
| 1 | A | 1524 | A | N1-C2-N3 | -18.21 | 120.19 | 129.30 |
| 1 | A | 1710 | A | N1-C2-N3 | -18.21 | 120.19 | 129.30 |
| 1 | A | 2351 | A | N1-C2-N3 | -18.21 | 120.19 | 129.30 |
| 31 | W | 711 | A | N1-C2-N3 | -18.21 | 120.20 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2044 | A | N1-C2-N3 | -18.21 | 120.20 | 129.30 |
| 1 | A | 661 | A | N1-C2-N3 | -18.20 | 120.20 | 129.30 |
| 1 | A | 2329 | A | N1-C2-N3 | -18.20 | 120.20 | 129.30 |
| 1 | A | 1490 | A | N1-C2-N3 | -18.20 | 120.20 | 129.30 |
| 31 | W | 1348 | A | N1-C2-N3 | -18.20 | 120.20 | 129.30 |
| 2 | B | 46 | A | N1-C2-N3 | -18.20 | 120.20 | 129.30 |
| 31 | W | 1369 | A | N1-C2-N3 | -18.19 | 120.20 | 129.30 |
| 31 | W | 790 | A | N1-C2-N3 | -18.19 | 120.20 | 129.30 |
| 1 | A | 52 | A | N1-C2-N3 | -18.19 | 120.21 | 129.30 |
| 31 | W | 74 | A | N1-C2-N3 | -18.18 | 120.21 | 129.30 |
| 31 | W | 282 | A | N1-C2-N3 | -18.18 | 120.21 | 129.30 |
| 31 | W | 721 | A | N1-C2-N3 | -18.18 | 120.21 | 129.30 |
| 51 | y | 9 | A | N1-C2-N3 | -18.18 | 120.21 | 129.30 |
| 1 | A | 1067 | A | C2-N3-C4 | 18.17 | 119.69 | 110.60 |
| 1 | A | 1778 | A | N1-C2-N3 | -18.17 | 120.22 | 129.30 |
| 1 | A | 1316 | A | N1-C2-N3 | -18.17 | 120.22 | 129.30 |
| 1 | A | 2691 | A | N1-C2-N3 | -18.16 | 120.22 | 129.30 |
| 31 | W | 404 | A | N1-C2-N3 | -18.16 | 120.22 | 129.30 |
| 1 | A | 2402 | A | N1-C2-N3 | -18.16 | 120.22 | 129.30 |
| 31 | W | 844 | A | N1-C2-N3 | -18.16 | 120.22 | 129.30 |
| 1 | A | 910 | A | N1-C2-N3 | -18.15 | 120.22 | 129.30 |
| 51 | l | 9 | A | N1-C2-N3 | -18.15 | 120.22 | 129.30 |
| 1 | A | 736 | A | N1-C2-N3 | -18.15 | 120.23 | 129.30 |
| 1 | A | 1562 | A | N1-C2-N3 | -18.14 | 120.23 | 129.30 |
| 1 | A | 56 | A | N1-C2-N3 | -18.13 | 120.23 | 129.30 |
| 1 | A | 1067 | A | N1-C2-N3 | -18.13 | 120.24 | 129.30 |
| 1 | A | 2436 | A | N1-C2-N3 | -18.12 | 120.24 | 129.30 |
| 31 | W | 1278 | A | N1-C2-N3 | -18.12 | 120.24 | 129.30 |
| 51 | y | 24 | A | N1-C2-N3 | -18.12 | 120.24 | 129.30 |
| 1 | A | 866 | A | N1-C2-N3 | -18.12 | 120.24 | 129.30 |
| 1 | A | 678 | A | N1-C2-N3 | -18.11 | 120.24 | 129.30 |
| 31 | W | 1333 | A | N1-C2-N3 | -18.11 | 120.24 | 129.30 |
| 1 | A | 970 | A | N1-C2-N3 | -18.09 | 120.25 | 129.30 |
| 1 | A | 2862 | A | N1-C2-N3 | -18.09 | 120.26 | 129.30 |
| 31 | W | 758 | A | N1-C2-N3 | -18.08 | 120.26 | 129.30 |
| 1 | A | 1714 | A | N1-C2-N3 | -18.08 | 120.26 | 129.30 |
| 1 | A | 90 | A | N1-C2-N3 | -18.07 | 120.26 | 129.30 |
| 1 | A | 679 | A | N1-C2-N3 | -18.07 | 120.27 | 129.30 |
| 51 | l | 24 | A | N1-C2-N3 | -18.06 | 120.27 | 129.30 |
| 1 | A | 185 | A | N1-C2-N3 | -18.05 | 120.27 | 129.30 |
| 1 | A | 2027 | A | N1-C2-N3 | -18.05 | 120.27 | 129.30 |
| 1 | A | 2407 | A | N1-C2-N3 | -18.05 | 120.28 | 129.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|--------|-------------|----------|
| 31 | W | 959 | A | N1-C2-N3 | -18.04 | 120.28 | 129.30 |
| 1 | A | 974 | A | N1-C2-N3 | -18.04 | 120.28 | 129.30 |
| 31 | W | 1160 | A | N1-C2-N3 | -18.04 | 120.28 | 129.30 |
| 1 | A | 1883 | A | N1-C2-N3 | -18.03 | 120.28 | 129.30 |
| 1 | A | 1839 | A | N1-C2-N3 | -18.03 | 120.28 | 129.30 |
| 1 | A | 38 | A | N1-C2-N3 | -18.01 | 120.29 | 129.30 |
| 1 | A | 407 | A | N1-C2-N3 | -18.01 | 120.30 | 129.30 |
| 1 | A | 715 | A | N1-C2-N3 | -18.01 | 120.30 | 129.30 |
| 1 | A | 1618 | A | N1-C2-N3 | -18.01 | 120.30 | 129.30 |
| 1 | A | 178 | A | N1-C2-N3 | -18.00 | 120.30 | 129.30 |
| 31 | W | 1256 | A | N1-C2-N3 | -18.00 | 120.30 | 129.30 |
| 1 | A | 551 | A | N1-C2-N3 | -18.00 | 120.30 | 129.30 |
| 1 | A | 1638 | A | N1-C2-N3 | -17.99 | 120.31 | 129.30 |
| 1 | A | 501 | A | C2-N3-C4 | 17.99 | 119.59 | 110.60 |
| 1 | A | 1006 | A | N1-C2-N3 | -17.99 | 120.31 | 129.30 |
| 31 | W | 1166 | A | N1-C2-N3 | -17.98 | 120.31 | 129.30 |
| 31 | W | 405 | A | N1-C2-N3 | -17.98 | 120.31 | 129.30 |
| 1 | A | 1653 | A | N1-C2-N3 | -17.97 | 120.31 | 129.30 |
| 31 | W | 391 | A | N1-C2-N3 | -17.95 | 120.32 | 129.30 |
| 1 | A | 2735 | A | N1-C2-N3 | -17.95 | 120.32 | 129.30 |
| 1 | A | 108 | A | N1-C2-N3 | -17.95 | 120.33 | 129.30 |
| 1 | A | 2885 | A | N1-C2-N3 | -17.95 | 120.33 | 129.30 |
| 31 | W | 507 | A | N1-C2-N3 | -17.94 | 120.33 | 129.30 |
| 31 | W | 838 | A | N1-C2-N3 | -17.94 | 120.33 | 129.30 |
| 1 | A | 1398 | A | N1-C2-N3 | -17.94 | 120.33 | 129.30 |
| 1 | A | 2358 | A | N1-C2-N3 | -17.93 | 120.34 | 129.30 |
| 1 | A | 2627 | A | N1-C2-N3 | -17.90 | 120.35 | 129.30 |
| 31 | W | 1026 | A | N1-C2-N3 | -17.90 | 120.35 | 129.30 |
| 1 | A | 2844 | A | N1-C2-N3 | -17.89 | 120.35 | 129.30 |
| 31 | W | 933 | A | N1-C2-N3 | -17.84 | 120.38 | 129.30 |
| 1 | A | 1094 | A | N1-C2-N3 | -17.83 | 120.38 | 129.30 |
| 1 | A | 1190 | A | N1-C2-N3 | -17.78 | 120.41 | 129.30 |
| 1 | A | 667 | A | N1-C2-N3 | -17.76 | 120.42 | 129.30 |
| 1 | A | 935 | A | N1-C2-N3 | -17.73 | 120.43 | 129.30 |
| 1 | A | 527 | A | N1-C2-N3 | -17.65 | 120.47 | 129.30 |
| 31 | W | 99 | A | N1-C2-N3 | -17.63 | 120.48 | 129.30 |
| 1 | A | 513 | A | N1-C2-N3 | -17.59 | 120.50 | 129.30 |
| 1 | A | 254 | A | N1-C2-N3 | -17.20 | 120.70 | 129.30 |
| 2 | B | 99 | A | N1-C2-N3 | -17.16 | 120.72 | 129.30 |
| 1 | A | 589 | G | C4'-C3'-O3' | 13.88 | 140.77 | 113.00 |
| 1 | A | 83 | G | C4'-C3'-O3' | -12.67 | 82.80 | 109.40 |
| 1 | A | 501 | A | N7-C8-N9 | -12.21 | 107.70 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2805 | A | N7-C8-N9 | -12.11 | 107.75 | 113.80 |
| 1 | A | 2807 | A | N7-C8-N9 | -12.06 | 107.77 | 113.80 |
| 31 | W | 266 | A | N7-C8-N9 | -12.01 | 107.80 | 113.80 |
| 1 | A | 1084 | A | N7-C8-N9 | -11.98 | 107.81 | 113.80 |
| 1 | A | 2089 | A | N7-C8-N9 | -11.98 | 107.81 | 113.80 |
| 1 | A | 1308 | A | N7-C8-N9 | -11.95 | 107.83 | 113.80 |
| 31 | W | 254 | A | N7-C8-N9 | -11.95 | 107.83 | 113.80 |
| 1 | A | 1784 | A | N7-C8-N9 | -11.95 | 107.83 | 113.80 |
| 1 | A | 2750 | A | N7-C8-N9 | -11.94 | 107.83 | 113.80 |
| 1 | A | 821 | A | N7-C8-N9 | -11.94 | 107.83 | 113.80 |
| 31 | W | 10 | A | N7-C8-N9 | -11.94 | 107.83 | 113.80 |
| 1 | A | 1202 | A | N7-C8-N9 | -11.93 | 107.83 | 113.80 |
| 1 | A | 2770 | A | N7-C8-N9 | -11.93 | 107.83 | 113.80 |
| 1 | A | 2683 | A | N7-C8-N9 | -11.92 | 107.84 | 113.80 |
| 1 | A | 722 | A | N7-C8-N9 | -11.91 | 107.84 | 113.80 |
| 1 | A | 374 | A | N7-C8-N9 | -11.90 | 107.85 | 113.80 |
| 1 | A | 2923 | A | N7-C8-N9 | -11.90 | 107.85 | 113.80 |
| 1 | A | 584 | A | N7-C8-N9 | -11.90 | 107.85 | 113.80 |
| 31 | W | 899 | A | N7-C8-N9 | -11.90 | 107.85 | 113.80 |
| 1 | A | 526 | A | N7-C8-N9 | -11.90 | 107.85 | 113.80 |
| 1 | A | 1895 | A | N7-C8-N9 | -11.89 | 107.86 | 113.80 |
| 1 | A | 2049 | A | N7-C8-N9 | -11.88 | 107.86 | 113.80 |
| 31 | W | 824 | A | N7-C8-N9 | -11.88 | 107.86 | 113.80 |
| 1 | A | 538 | A | N7-C8-N9 | -11.88 | 107.86 | 113.80 |
| 1 | A | 774 | A | N7-C8-N9 | -11.88 | 107.86 | 113.80 |
| 31 | W | 1434 | A | N7-C8-N9 | -11.87 | 107.86 | 113.80 |
| 1 | A | 2819 | A | N7-C8-N9 | -11.87 | 107.87 | 113.80 |
| 31 | W | 31 | A | N7-C8-N9 | -11.86 | 107.87 | 113.80 |
| 1 | A | 281 | A | N7-C8-N9 | -11.85 | 107.87 | 113.80 |
| 1 | A | 2777 | A | N7-C8-N9 | -11.85 | 107.87 | 113.80 |
| 1 | A | 166 | A | N7-C8-N9 | -11.85 | 107.88 | 113.80 |
| 31 | W | 508 | A | N7-C8-N9 | -11.85 | 107.88 | 113.80 |
| 1 | A | 207 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 31 | W | 650 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 1 | A | 991 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 1 | A | 2364 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 2 | B | 17 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 1 | A | 470 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 1 | A | 1066 | A | N7-C8-N9 | -11.84 | 107.88 | 113.80 |
| 31 | W | 1503 | A | N7-C8-N9 | -11.83 | 107.88 | 113.80 |
| 1 | A | 2052 | A | N7-C8-N9 | -11.83 | 107.88 | 113.80 |
| 31 | W | 1355 | A | N7-C8-N9 | -11.83 | 107.89 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2390 | A | N7-C8-N9 | -11.82 | 107.89 | 113.80 |
| 31 | W | 159 | A | N7-C8-N9 | -11.82 | 107.89 | 113.80 |
| 31 | W | 768 | A | N7-C8-N9 | -11.82 | 107.89 | 113.80 |
| 1 | A | 436 | A | N7-C8-N9 | -11.81 | 107.89 | 113.80 |
| 1 | A | 575 | A | N7-C8-N9 | -11.81 | 107.89 | 113.80 |
| 31 | W | 456 | A | N7-C8-N9 | -11.81 | 107.89 | 113.80 |
| 1 | A | 1134 | A | N3-C4-C5 | -11.81 | 118.53 | 126.80 |
| 1 | A | 1314 | A | N7-C8-N9 | -11.81 | 107.89 | 113.80 |
| 1 | A | 2477 | A | N7-C8-N9 | -11.80 | 107.90 | 113.80 |
| 31 | W | 556 | A | N7-C8-N9 | -11.80 | 107.90 | 113.80 |
| 31 | W | 790 | A | N7-C8-N9 | -11.80 | 107.90 | 113.80 |
| 1 | A | 582 | A | N7-C8-N9 | -11.80 | 107.90 | 113.80 |
| 31 | W | 923 | A | N7-C8-N9 | -11.80 | 107.90 | 113.80 |
| 31 | W | 419 | A | N7-C8-N9 | -11.80 | 107.90 | 113.80 |
| 31 | W | 53 | A | N7-C8-N9 | -11.79 | 107.91 | 113.80 |
| 31 | W | 206 | A | N7-C8-N9 | -11.79 | 107.91 | 113.80 |
| 31 | W | 886 | A | N7-C8-N9 | -11.79 | 107.91 | 113.80 |
| 31 | W | 703 | A | N7-C8-N9 | -11.79 | 107.91 | 113.80 |
| 1 | A | 1982 | A | N7-C8-N9 | -11.78 | 107.91 | 113.80 |
| 1 | A | 2594 | A | N7-C8-N9 | -11.79 | 107.91 | 113.80 |
| 31 | W | 985 | A | N7-C8-N9 | -11.78 | 107.91 | 113.80 |
| 1 | A | 504 | A | N7-C8-N9 | -11.78 | 107.91 | 113.80 |
| 1 | A | 2893 | A | N7-C8-N9 | -11.78 | 107.91 | 113.80 |
| 31 | W | 1248 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 1 | A | 702 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 1 | A | 1339 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 1 | A | 2447 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 31 | W | 1466 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 1 | A | 71 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 1 | A | 572 | A | N7-C8-N9 | -11.77 | 107.92 | 113.80 |
| 1 | A | 388 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 1461 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 1809 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 31 | W | 690 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 31 | W | 506 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 31 | W | 1222 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 1157 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 1553 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 2362 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 2417 | A | N7-C8-N9 | -11.76 | 107.92 | 113.80 |
| 1 | A | 1700 | A | N7-C8-N9 | -11.75 | 107.92 | 113.80 |
| 1 | A | 553 | A | N7-C8-N9 | -11.75 | 107.92 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 57 | A | N7-C8-N9 | -11.75 | 107.92 | 113.80 |
| 1 | A | 647 | A | N7-C8-N9 | -11.75 | 107.93 | 113.80 |
| 1 | A | 835 | A | N7-C8-N9 | -11.75 | 107.93 | 113.80 |
| 1 | A | 1672 | A | N7-C8-N9 | -11.75 | 107.93 | 113.80 |
| 31 | W | 18 | A | N7-C8-N9 | -11.75 | 107.93 | 113.80 |
| 1 | A | 525 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 1 | A | 1473 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 1 | A | 1061 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 1 | A | 219 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 1 | A | 1326 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 1 | A | 1224 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 31 | W | 611 | A | N7-C8-N9 | -11.74 | 107.93 | 113.80 |
| 1 | A | 84 | A | N7-C8-N9 | -11.73 | 107.93 | 113.80 |
| 1 | A | 2907 | A | N7-C8-N9 | -11.73 | 107.93 | 113.80 |
| 1 | A | 1189 | A | N7-C8-N9 | -11.73 | 107.93 | 113.80 |
| 1 | A | 1813 | A | N7-C8-N9 | -11.73 | 107.94 | 113.80 |
| 31 | W | 440 | A | N7-C8-N9 | -11.73 | 107.94 | 113.80 |
| 1 | A | 1555 | A | N7-C8-N9 | -11.73 | 107.94 | 113.80 |
| 31 | W | 975 | A | N7-C8-N9 | -11.73 | 107.94 | 113.80 |
| 31 | W | 1056 | A | N7-C8-N9 | -11.73 | 107.94 | 113.80 |
| 1 | A | 2876 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 31 | W | 204 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 183 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 1532 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 2812 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 345 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 1524 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 999 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 324 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 31 | W | 532 | A | N7-C8-N9 | -11.72 | 107.94 | 113.80 |
| 1 | A | 126 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 31 | W | 150 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 31 | W | 1422 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 1 | A | 449 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 31 | W | 240 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 31 | W | 364 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 1 | A | 1072 | A | N7-C8-N9 | -11.71 | 107.95 | 113.80 |
| 1 | A | 1126 | A | N7-C8-N9 | -11.71 | 107.95 | 113.80 |
| 1 | A | 2668 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 31 | W | 544 | A | N7-C8-N9 | -11.71 | 107.94 | 113.80 |
| 1 | A | 1961 | A | N7-C8-N9 | -11.71 | 107.95 | 113.80 |
| 31 | W | 658 | A | N7-C8-N9 | -11.71 | 107.95 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1417 | A | N7-C8-N9 | -11.71 | 107.95 | 113.80 |
| 31 | W | 1349 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 31 | W | 1266 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 389 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 1175 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 2026 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 2083 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 2500 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 2860 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 31 | W | 234 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 31 | W | 422 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 31 | W | 1006 | A | N7-C8-N9 | -11.70 | 107.95 | 113.80 |
| 1 | A | 2601 | A | N7-C8-N9 | -11.69 | 107.95 | 113.80 |
| 1 | A | 978 | A | N7-C8-N9 | -11.69 | 107.95 | 113.80 |
| 1 | A | 1179 | A | N7-C8-N9 | -11.69 | 107.95 | 113.80 |
| 31 | W | 522 | A | N7-C8-N9 | -11.69 | 107.95 | 113.80 |
| 1 | A | 2315 | A | N7-C8-N9 | -11.69 | 107.96 | 113.80 |
| 31 | W | 415 | A | N7-C8-N9 | -11.69 | 107.96 | 113.80 |
| 31 | W | 1207 | A | N7-C8-N9 | -11.69 | 107.96 | 113.80 |
| 1 | A | 1998 | A | N7-C8-N9 | -11.69 | 107.96 | 113.80 |
| 31 | W | 496 | A | N7-C8-N9 | -11.69 | 107.96 | 113.80 |
| 31 | W | 1257 | A | N7-C8-N9 | -11.69 | 107.96 | 113.80 |
| 1 | A | 236 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 244 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 475 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 1269 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 1284 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 31 | W | 281 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 31 | W | 1512 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 2059 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 31 | W | 1271 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 31 | W | 1328 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 1305 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 1593 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 1 | A | 2670 | A | N7-C8-N9 | -11.68 | 107.96 | 113.80 |
| 31 | W | 762 | A | N7-C8-N9 | -11.67 | 107.96 | 113.80 |
| 31 | W | 1254 | A | N7-C8-N9 | -11.67 | 107.96 | 113.80 |
| 1 | A | 1003 | A | N7-C8-N9 | -11.67 | 107.96 | 113.80 |
| 1 | A | 314 | A | N7-C8-N9 | -11.67 | 107.97 | 113.80 |
| 1 | A | 1346 | A | N7-C8-N9 | -11.67 | 107.97 | 113.80 |
| 1 | A | 1094 | A | N7-C8-N9 | -11.67 | 107.97 | 113.80 |
| 1 | A | 2276 | A | N7-C8-N9 | -11.67 | 107.97 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1225 | A | N7-C8-N9 | -11.67 | 107.97 | 113.80 |
| 1 | A | 1948 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 1 | A | 418 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 1 | A | 428 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 31 | W | 189 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 31 | W | 357 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 31 | W | 1488 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 1 | A | 193 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 1 | A | 1313 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 2 | B | 39 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 31 | W | 321 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 1 | A | 1047 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 31 | W | 1213 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 31 | W | 1298 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 2 | B | 102 | A | N7-C8-N9 | -11.66 | 107.97 | 113.80 |
| 1 | A | 154 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 770 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1788 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1925 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1585 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1654 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 730 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 547 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 803 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1233 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1445 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 1504 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 2047 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 2062 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 452 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 1090 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 1510 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 1 | A | 490 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 170 | A | N7-C8-N9 | -11.65 | 107.97 | 113.80 |
| 31 | W | 791 | A | N7-C8-N9 | -11.65 | 107.98 | 113.80 |
| 31 | W | 1327 | A | N7-C8-N9 | -11.65 | 107.98 | 113.80 |
| 1 | A | 646 | A | N7-C8-N9 | -11.65 | 107.98 | 113.80 |
| 1 | A | 1144 | A | N7-C8-N9 | -11.65 | 107.98 | 113.80 |
| 31 | W | 669 | A | N7-C8-N9 | -11.65 | 107.98 | 113.80 |
| 31 | W | 947 | A | N7-C8-N9 | -11.65 | 107.98 | 113.80 |
| 1 | A | 1735 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2088 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2694 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 737 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 957 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2542 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2700 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 190 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 282 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 738 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 1178 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2837 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 988 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 364 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 530 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 717 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 1115 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2507 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2902 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 1185 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 1407 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 110 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 1287 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 1325 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 1 | A | 2351 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 801 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 31 | W | 925 | A | N7-C8-N9 | -11.64 | 107.98 | 113.80 |
| 31 | W | 959 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 1 | A | 229 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 1 | A | 1026 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 1 | A | 1161 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 1 | A | 2912 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 31 | W | 1513 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 51 | 1 | 24 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 31 | W | 94 | A | N7-C8-N9 | -11.63 | 107.98 | 113.80 |
| 1 | A | 2854 | A | N7-C8-N9 | -11.63 | 107.99 | 113.80 |
| 31 | W | 1437 | A | N7-C8-N9 | -11.63 | 107.99 | 113.80 |
| 1 | A | 1302 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 1791 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 2673 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 31 | W | 651 | A | N7-C8-N9 | -11.63 | 107.99 | 113.80 |
| 31 | W | 1147 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 51 | 1 | 58 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 2719 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 228 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 31 | W | 1386 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 216 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 31 | W | 870 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 866 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 2851 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 769 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 31 | W | 361 | A | N7-C8-N9 | -11.62 | 107.99 | 113.80 |
| 1 | A | 2830 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 31 | W | 1092 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 1 | A | 882 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 1 | A | 1347 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 1 | A | 1483 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 31 | W | 617 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 1 | A | 1055 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 31 | W | 1296 | A | N7-C8-N9 | -11.61 | 107.99 | 113.80 |
| 31 | W | 202 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 31 | W | 1541 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 1 | A | 150 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 1 | A | 1277 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 1 | A | 2298 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 31 | W | 1050 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 31 | W | 1065 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 1 | A | 637 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 1 | A | 2618 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 31 | W | 568 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 31 | W | 956 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 31 | W | 1320 | A | N7-C8-N9 | -11.61 | 108.00 | 113.80 |
| 1 | A | 278 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 412 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 1516 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 2100 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 203 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 862 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1451 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1523 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 1197 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 2317 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 2 | B | 25 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 2356 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 2 | B | 76 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 777 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 879 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1197 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 799 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1383 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 2455 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 671 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1443 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 6 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 1406 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 1914 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 2793 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 786 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1160 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 31 | W | 1369 | A | N7-C8-N9 | -11.60 | 108.00 | 113.80 |
| 1 | A | 1008 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 31 | W | 271 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 1 | A | 1918 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 1 | A | 2834 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 51 | 1 | 14 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 1 | A | 202 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 1 | A | 2329 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 31 | W | 924 | A | N7-C8-N9 | -11.59 | 108.00 | 113.80 |
| 1 | A | 64 | A | N7-C8-N9 | -11.59 | 108.01 | 113.80 |
| 1 | A | 993 | A | N7-C8-N9 | -11.59 | 108.01 | 113.80 |
| 1 | A | 1034 | A | N7-C8-N9 | -11.59 | 108.01 | 113.80 |
| 31 | W | 679 | A | N7-C8-N9 | -11.59 | 108.01 | 113.80 |
| 1 | A | 2295 | A | N7-C8-N9 | -11.59 | 108.01 | 113.80 |
| 1 | A | 762 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 847 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 1291 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 2 | B | 50 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 337 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 1405 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 1818 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 31 | W | 582 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 329 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 31 | W | 500 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 51 | y | 14 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 1078 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 31 | W | 592 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 1 | A | 2087 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |
| 31 | W | 386 | A | N7-C8-N9 | -11.58 | 108.01 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1014 | A | N7-C8-N9 | -11.57 | 108.01 | 113.80 |
| 31 | W | 117 | A | N7-C8-N9 | -11.57 | 108.01 | 113.80 |
| 1 | A | 10 | A | N7-C8-N9 | -11.57 | 108.01 | 113.80 |
| 1 | A | 2846 | A | N7-C8-N9 | -11.57 | 108.01 | 113.80 |
| 31 | W | 1384 | A | N7-C8-N9 | -11.57 | 108.01 | 113.80 |
| 1 | A | 1020 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 31 | W | 1102 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 1 | A | 322 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 1 | A | 2686 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 31 | W | 129 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 31 | W | 438 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 51 | y | 41 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 31 | W | 569 | A | N7-C8-N9 | -11.57 | 108.02 | 113.80 |
| 1 | A | 12 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 354 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 1375 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 2338 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 31 | W | 333 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 31 | W | 776 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 1312 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 1615 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 2302 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 2 | B | 37 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 31 | W | 1205 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 355 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 2369 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 2835 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 888 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 31 | W | 371 | A | N7-C8-N9 | -11.56 | 108.02 | 113.80 |
| 1 | A | 1540 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 31 | W | 838 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 1 | A | 1638 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 31 | W | 1077 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 1 | A | 144 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 1 | A | 974 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 1 | A | 1663 | A | N7-C8-N9 | -11.55 | 108.02 | 113.80 |
| 1 | A | 1201 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |
| 31 | W | 251 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |
| 1 | A | 421 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |
| 1 | A | 1432 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |
| 1 | A | 690 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |
| 31 | W | 1245 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 51 | y | 21 | A | N7-C8-N9 | -11.55 | 108.03 | 113.80 |
| 1 | A | 1685 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 1284 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 1815 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 67 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 1425 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 723 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 2042 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 823 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 752 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 1592 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 2505 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 2722 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 2919 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 1247 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 125 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 829 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 2754 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 1103 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 1176 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 28 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 140 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 619 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 1036 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 1520 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 2365 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 910 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 2 | B | 27 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 31 | W | 1115 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 31 | W | 1490 | A | N7-C8-N9 | -11.54 | 108.03 | 113.80 |
| 1 | A | 318 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 325 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 947 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 2340 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 2767 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 31 | W | 460 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 31 | W | 1028 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 139 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 870 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 1174 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 2782 | A | N7-C8-N9 | -11.53 | 108.03 | 113.80 |
| 1 | A | 1424 | A | N7-C8-N9 | -11.53 | 108.04 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1745 | A | N7-C8-N9 | -11.53 | 108.04 | 113.80 |
| 2 | B | 114 | A | N7-C8-N9 | -11.53 | 108.04 | 113.80 |
| 31 | W | 501 | A | N7-C8-N9 | -11.53 | 108.04 | 113.80 |
| 31 | W | 1143 | A | N7-C8-N9 | -11.53 | 108.04 | 113.80 |
| 31 | W | 1419 | A | N7-C8-N9 | -11.53 | 108.04 | 113.80 |
| 1 | A | 781 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 102 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 1966 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 1048 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 1210 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 1434 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 1746 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 2526 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 81 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 1479 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 49 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 94 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 893 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 2511 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 2804 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 278 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 630 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 31 | W | 1405 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 200 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 1254 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 1423 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 2 | B | 44 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 1631 | A | N7-C8-N9 | -11.52 | 108.04 | 113.80 |
| 1 | A | 763 | A | N7-C8-N9 | -11.51 | 108.04 | 113.80 |
| 1 | A | 1580 | A | N7-C8-N9 | -11.51 | 108.04 | 113.80 |
| 1 | A | 2375 | A | N7-C8-N9 | -11.51 | 108.04 | 113.80 |
| 2 | B | 97 | A | N7-C8-N9 | -11.51 | 108.04 | 113.80 |
| 31 | W | 529 | A | N7-C8-N9 | -11.51 | 108.04 | 113.80 |
| 1 | A | 1727 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 173 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 867 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 2845 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 31 | W | 771 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 917 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 31 | W | 287 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 31 | W | 475 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 230 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1194 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 1533 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 179 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 652 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 31 | W | 463 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 1230 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 31 | W | 62 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 31 | W | 462 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 51 | y | 44 | A | N7-C8-N9 | -11.51 | 108.05 | 113.80 |
| 1 | A | 5 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 231 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 2908 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 543 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 2307 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 2398 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 2480 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 2629 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 31 | W | 704 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 965 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 2762 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 31 | W | 382 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 124 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 1913 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 199 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 224 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 260 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 275 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 2 | B | 64 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 31 | W | 258 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 31 | W | 649 | A | N7-C8-N9 | -11.50 | 108.05 | 113.80 |
| 1 | A | 1802 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 1 | A | 161 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 1 | A | 273 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 1 | A | 786 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 1 | A | 1929 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 31 | W | 945 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 1 | A | 2479 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 31 | W | 1358 | A | N7-C8-N9 | -11.49 | 108.05 | 113.80 |
| 1 | A | 171 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 1 | A | 876 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 1 | A | 1335 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 1 | A | 1648 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2662 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 352 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 433 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 2 | B | 51 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 485 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 811 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 1256 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 1 | A | 274 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 1 | A | 2547 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 816 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 31 | W | 1022 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 51 | 1 | 21 | A | N7-C8-N9 | -11.49 | 108.06 | 113.80 |
| 1 | A | 1789 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 1989 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 2889 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 210 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 504 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 259 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 330 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 500 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 2043 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 757 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 1017 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 1252 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 13 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 194 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 618 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 2032 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 831 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 1392 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 2381 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 296 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 1456 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 31 | W | 1493 | A | N7-C8-N9 | -11.48 | 108.06 | 113.80 |
| 1 | A | 130 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 692 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 2658 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 2900 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 987 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 1210 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 2303 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 2769 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1529 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 667 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 746 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 811 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 1941 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 31 | W | 618 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 31 | W | 837 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 31 | W | 401 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 31 | W | 1333 | A | N7-C8-N9 | -11.47 | 108.07 | 113.80 |
| 31 | W | 1359 | A | N7-C8-N9 | -11.47 | 108.06 | 113.80 |
| 1 | A | 524 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 782 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 1677 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 672 | A | N7-C8-N9 | -11.47 | 108.07 | 113.80 |
| 31 | W | 1128 | A | N7-C8-N9 | -11.47 | 108.07 | 113.80 |
| 1 | A | 1722 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 346 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 206 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 736 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 1709 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 2663 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 173 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 685 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 2 | B | 18 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 423 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 630 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 55 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 139 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 185 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 1691 | A | N3-C4-C5 | -11.46 | 118.78 | 126.80 |
| 31 | W | 1509 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 518 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 1142 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 31 | W | 883 | A | N7-C8-N9 | -11.46 | 108.07 | 113.80 |
| 1 | A | 659 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 1 | A | 1123 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 1 | A | 373 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 1 | A | 429 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 1 | A | 622 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 1 | A | 1149 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 1 | A | 2661 | A | N7-C8-N9 | -11.45 | 108.07 | 113.80 |
| 31 | W | 677 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 519 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 922 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 1116 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 1534 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 1844 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 1901 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 31 | W | 35 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 31 | W | 664 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 2787 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 31 | W | 34 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 31 | W | 61 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 31 | W | 1133 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 14 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 302 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 1025 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 2517 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 2071 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 2606 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 31 | W | 211 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 335 | A | N7-C8-N9 | -11.45 | 108.08 | 113.80 |
| 1 | A | 600 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 2000 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 978 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 1348 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 677 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 1100 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 1266 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 1906 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 178 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 367 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 674 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 1942 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 2464 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 28 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 1054 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 51 | 1 | 70 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 727 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 1695 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 2343 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 2402 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 2904 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 512 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 1417 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 31 | W | 1528 | A | N7-C8-N9 | -11.44 | 108.08 | 113.80 |
| 1 | A | 156 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 31 | W | 329 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 486 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 889 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 1816 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 2421 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 31 | W | 397 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 31 | W | 882 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 1627 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 2643 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 2924 | A | N7-C8-N9 | -11.43 | 108.08 | 113.80 |
| 1 | A | 65 | A | N7-C8-N9 | -11.43 | 108.09 | 113.80 |
| 1 | A | 1059 | A | N7-C8-N9 | -11.43 | 108.09 | 113.80 |
| 1 | A | 1583 | A | N7-C8-N9 | -11.43 | 108.09 | 113.80 |
| 1 | A | 1995 | A | N7-C8-N9 | -11.43 | 108.09 | 113.80 |
| 31 | W | 902 | A | N7-C8-N9 | -11.43 | 108.09 | 113.80 |
| 31 | W | 1270 | A | N7-C8-N9 | -11.43 | 108.09 | 113.80 |
| 1 | A | 1005 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1617 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 2740 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 456 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1713 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1743 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1831 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 828 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 376 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1141 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 705 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1845 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 2330 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 2482 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 148 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 604 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 844 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 1024 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 353 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 2262 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 1259 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 561 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 2027 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2383 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 306 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 31 | W | 1166 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 51 | y | 58 | A | N7-C8-N9 | -11.42 | 108.09 | 113.80 |
| 1 | A | 1588 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 2826 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 928 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 1261 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 225 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 2498 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 12 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 120 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 208 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 581 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 1470 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 459 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 537 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 715 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 1286 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 1 | A | 2007 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 616 | A | N7-C8-N9 | -11.41 | 108.09 | 113.80 |
| 31 | W | 1455 | A | N7-C8-N9 | -11.41 | 108.10 | 113.80 |
| 1 | A | 753 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 910 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 952 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 1947 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 1404 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 2297 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 2590 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 31 | W | 1200 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 2898 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 31 | W | 171 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 333 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 1967 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 31 | W | 919 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 31 | W | 1289 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 724 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 1499 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 31 | W | 775 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 1092 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 2570 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 1490 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 232 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 2708 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 31 | W | 917 | A | N7-C8-N9 | -11.40 | 108.10 | 113.80 |
| 1 | A | 653 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 1073 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 176 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 1464 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 2462 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 31 | W | 404 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 31 | W | 725 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 31 | W | 236 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 265 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 1235 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 1957 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 301 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 659 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 1004 | A | N7-C8-N9 | -11.39 | 108.10 | 113.80 |
| 1 | A | 56 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 1 | A | 198 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 1 | A | 1653 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 160 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 974 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 1 | A | 549 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 2 | B | 55 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 684 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 31 | W | 918 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 51 | 1 | 44 | A | N7-C8-N9 | -11.39 | 108.11 | 113.80 |
| 1 | A | 1734 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 2034 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 2862 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 31 | W | 118 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 1686 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 1848 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 31 | W | 1188 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 507 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 1029 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 1253 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 2080 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 964 | A | N7-C8-N9 | -11.38 | 108.11 | 113.80 |
| 1 | A | 307 | A | N7-C8-N9 | -11.37 | 108.11 | 113.80 |
| 31 | W | 605 | A | N7-C8-N9 | -11.37 | 108.11 | 113.80 |
| 1 | A | 1190 | A | N7-C8-N9 | -11.37 | 108.11 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2875 | A | N7-C8-N9 | -11.37 | 108.11 | 113.80 |
| 2 | B | 105 | A | N7-C8-N9 | -11.37 | 108.11 | 113.80 |
| 1 | A | 1357 | A | N7-C8-N9 | -11.37 | 108.12 | 113.80 |
| 31 | W | 996 | A | N7-C8-N9 | -11.37 | 108.12 | 113.80 |
| 31 | W | 1031 | A | N7-C8-N9 | -11.37 | 108.12 | 113.80 |
| 1 | A | 1046 | A | N7-C8-N9 | -11.37 | 108.12 | 113.80 |
| 1 | A | 1517 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 491 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 743 | A | N7-C8-N9 | -11.37 | 108.12 | 113.80 |
| 1 | A | 44 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 661 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1131 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1797 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 631 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 638 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1103 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1260 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 1014 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 476 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 868 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1243 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1575 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 1502 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 1111 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 1956 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 875 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 31 | W | 913 | A | N7-C8-N9 | -11.36 | 108.12 | 113.80 |
| 1 | A | 2078 | A | N7-C8-N9 | -11.35 | 108.12 | 113.80 |
| 31 | W | 389 | A | N7-C8-N9 | -11.35 | 108.12 | 113.80 |
| 31 | W | 1297 | A | N7-C8-N9 | -11.35 | 108.12 | 113.80 |
| 1 | A | 448 | A | N7-C8-N9 | -11.35 | 108.12 | 113.80 |
| 1 | A | 896 | A | N7-C8-N9 | -11.35 | 108.12 | 113.80 |
| 1 | A | 1258 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 1 | A | 1636 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 31 | W | 874 | A | N7-C8-N9 | -11.35 | 108.12 | 113.80 |
| 31 | W | 1442 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 1 | A | 479 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 1 | A | 2060 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 31 | W | 225 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 1 | A | 2463 | A | N7-C8-N9 | -11.35 | 108.13 | 113.80 |
| 31 | W | 518 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 993 | A | N3-C4-C5 | -11.34 | 118.86 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 808 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 541 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 342 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 548 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 970 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 2387 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 142 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 1206 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 1119 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 507 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 851 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 1323 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 2018 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 2030 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 2270 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 2790 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 270 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 696 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 1112 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 31 | W | 1342 | A | N7-C8-N9 | -11.34 | 108.13 | 113.80 |
| 1 | A | 268 | A | N7-C8-N9 | -11.33 | 108.13 | 113.80 |
| 1 | A | 1054 | A | N7-C8-N9 | -11.33 | 108.13 | 113.80 |
| 1 | A | 1679 | A | N7-C8-N9 | -11.33 | 108.13 | 113.80 |
| 31 | W | 128 | A | N7-C8-N9 | -11.33 | 108.13 | 113.80 |
| 31 | W | 721 | A | N7-C8-N9 | -11.33 | 108.13 | 113.80 |
| 1 | A | 118 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 1 | A | 1724 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 1 | A | 2006 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 1 | A | 2440 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 31 | W | 1121 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 51 | y | 23 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 1 | A | 133 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 31 | W | 151 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 31 | W | 1140 | A | N7-C8-N9 | -11.33 | 108.14 | 113.80 |
| 1 | A | 61 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 108 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 31 | W | 107 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 31 | W | 381 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 31 | W | 1366 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 222 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 496 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 578 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 592 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 1723 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 31 | W | 140 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 31 | W | 290 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 178 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 67 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 326 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 1130 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 31 | W | 542 | A | N7-C8-N9 | -11.32 | 108.14 | 113.80 |
| 1 | A | 623 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 1 | A | 2734 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 31 | W | 705 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 51 | 1 | 41 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 1 | A | 1699 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 31 | W | 715 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 1 | A | 2619 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 1 | A | 477 | A | N7-C8-N9 | -11.31 | 108.14 | 113.80 |
| 1 | A | 894 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 1 | A | 1074 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 1 | A | 1221 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 1 | A | 1316 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 1 | A | 2595 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 31 | W | 323 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 31 | W | 758 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 31 | W | 1180 | A | N7-C8-N9 | -11.31 | 108.15 | 113.80 |
| 1 | A | 740 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 31 | W | 1435 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 31 | W | 724 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 1 | A | 1388 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 1 | A | 758 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 1 | A | 1393 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 1 | A | 1541 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 1 | A | 1760 | A | N7-C8-N9 | -11.30 | 108.15 | 113.80 |
| 1 | A | 551 | A | N7-C8-N9 | -11.29 | 108.15 | 113.80 |
| 1 | A | 1838 | A | N7-C8-N9 | -11.29 | 108.15 | 113.80 |
| 1 | A | 517 | A | N7-C8-N9 | -11.29 | 108.15 | 113.80 |
| 1 | A | 41 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 462 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 1675 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 2810 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 1710 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 2066 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2560 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 2571 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 1222 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 1 | A | 210 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 2111 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 2 | B | 43 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 31 | W | 929 | A | N7-C8-N9 | -11.29 | 108.16 | 113.80 |
| 31 | W | 1272 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 51 | y | 24 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 305 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 1465 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 31 | W | 209 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 31 | W | 1463 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 31 | W | 1486 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 1412 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 1608 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 1885 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 31 | W | 314 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 2497 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 31 | W | 1517 | A | N7-C8-N9 | -11.28 | 108.16 | 113.80 |
| 1 | A | 91 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 162 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 258 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 431 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 469 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 560 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 1888 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 2827 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 31 | W | 1120 | A | N7-C8-N9 | -11.27 | 108.16 | 113.80 |
| 1 | A | 117 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 1 | A | 1477 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 1 | A | 1721 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 1 | A | 1905 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 1 | A | 2735 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 1 | A | 828 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 1 | A | 2887 | A | N7-C8-N9 | -11.27 | 108.17 | 113.80 |
| 31 | W | 405 | A | N3-C4-C5 | -11.27 | 118.91 | 126.80 |
| 1 | A | 2441 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 1 | A | 2454 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 2 | B | 56 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 76 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 1403 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1714 | A | N3-C4-C5 | -11.26 | 118.92 | 126.80 |
| 1 | A | 2406 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 72 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 477 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 1 | A | 21 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 1 | A | 1042 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 1 | A | 1606 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 1 | A | 1778 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 372 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 825 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 51 | y | 9 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 1 | A | 1113 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 474 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 1179 | A | N7-C8-N9 | -11.26 | 108.17 | 113.80 |
| 31 | W | 1260 | A | N7-C8-N9 | -11.25 | 108.17 | 113.80 |
| 1 | A | 73 | A | N7-C8-N9 | -11.25 | 108.17 | 113.80 |
| 1 | A | 1569 | A | N7-C8-N9 | -11.25 | 108.18 | 113.80 |
| 1 | A | 220 | A | N7-C8-N9 | -11.25 | 108.18 | 113.80 |
| 1 | A | 1426 | A | N7-C8-N9 | -11.25 | 108.18 | 113.80 |
| 1 | A | 1542 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 31 | W | 459 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 1096 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 1850 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 1945 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 1812 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 904 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 1619 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 1858 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 2 | B | 46 | A | N7-C8-N9 | -11.24 | 108.18 | 113.80 |
| 1 | A | 38 | A | N7-C8-N9 | -11.23 | 108.18 | 113.80 |
| 1 | A | 339 | A | N7-C8-N9 | -11.23 | 108.18 | 113.80 |
| 2 | B | 20 | A | N7-C8-N9 | -11.23 | 108.18 | 113.80 |
| 1 | A | 2389 | A | N7-C8-N9 | -11.23 | 108.19 | 113.80 |
| 1 | A | 1556 | A | N7-C8-N9 | -11.23 | 108.19 | 113.80 |
| 1 | A | 369 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 1 | A | 1381 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 1 | A | 2436 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 1 | A | 1361 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 1 | A | 1456 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 1 | A | 1536 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 1 | A | 2358 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |
| 2 | B | 113 | A | N7-C8-N9 | -11.22 | 108.19 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 407 | A | N7-C8-N9 | -11.21 | 108.19 | 113.80 |
| 1 | A | 1132 | A | N7-C8-N9 | -11.21 | 108.19 | 113.80 |
| 1 | A | 279 | A | N7-C8-N9 | -11.21 | 108.19 | 113.80 |
| 1 | A | 1620 | A | N7-C8-N9 | -11.21 | 108.19 | 113.80 |
| 1 | A | 1027 | A | N7-C8-N9 | -11.21 | 108.19 | 113.80 |
| 31 | W | 344 | A | N7-C8-N9 | -11.21 | 108.19 | 113.80 |
| 31 | W | 52 | A | N7-C8-N9 | -11.21 | 108.20 | 113.80 |
| 31 | W | 161 | A | N7-C8-N9 | -11.21 | 108.20 | 113.80 |
| 31 | W | 979 | A | N7-C8-N9 | -11.20 | 108.20 | 113.80 |
| 1 | A | 384 | A | N7-C8-N9 | -11.20 | 108.20 | 113.80 |
| 1 | A | 673 | A | N7-C8-N9 | -11.20 | 108.20 | 113.80 |
| 1 | A | 1776 | A | N7-C8-N9 | -11.20 | 108.20 | 113.80 |
| 1 | A | 2869 | A | N7-C8-N9 | -11.20 | 108.20 | 113.80 |
| 1 | A | 247 | A | N7-C8-N9 | -11.19 | 108.20 | 113.80 |
| 1 | A | 391 | A | N7-C8-N9 | -11.19 | 108.20 | 113.80 |
| 1 | A | 559 | A | N7-C8-N9 | -11.19 | 108.20 | 113.80 |
| 1 | A | 168 | A | N7-C8-N9 | -11.19 | 108.20 | 113.80 |
| 1 | A | 1601 | A | N7-C8-N9 | -11.19 | 108.21 | 113.80 |
| 31 | W | 74 | A | N7-C8-N9 | -11.19 | 108.21 | 113.80 |
| 31 | W | 948 | A | N7-C8-N9 | -11.19 | 108.21 | 113.80 |
| 1 | A | 2349 | A | N7-C8-N9 | -11.19 | 108.21 | 113.80 |
| 31 | W | 1308 | A | N3-C4-C5 | -11.19 | 118.97 | 126.80 |
| 1 | A | 2044 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 2 | B | 71 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 2461 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 1480 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 1506 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 2106 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 2316 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 31 | W | 796 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 658 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 1814 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 1 | A | 1421 | A | N7-C8-N9 | -11.18 | 108.21 | 113.80 |
| 51 | 1 | 76 | A | N7-C8-N9 | -11.17 | 108.21 | 113.80 |
| 1 | A | 2395 | A | N7-C8-N9 | -11.17 | 108.21 | 113.80 |
| 1 | A | 1188 | A | N7-C8-N9 | -11.17 | 108.22 | 113.80 |
| 1 | A | 1981 | A | N7-C8-N9 | -11.17 | 108.22 | 113.80 |
| 51 | y | 70 | A | N7-C8-N9 | -11.17 | 108.22 | 113.80 |
| 1 | A | 1579 | A | N7-C8-N9 | -11.17 | 108.22 | 113.80 |
| 31 | W | 1238 | A | N7-C8-N9 | -11.17 | 108.22 | 113.80 |
| 1 | A | 1360 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 31 | W | 713 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1442 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 51 | 1 | 23 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 1 | A | 1618 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 1 | A | 2831 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 1 | A | 226 | A | N3-C4-C5 | -11.16 | 118.99 | 126.80 |
| 1 | A | 943 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 31 | W | 1478 | A | N7-C8-N9 | -11.16 | 108.22 | 113.80 |
| 1 | A | 2916 | A | N7-C8-N9 | -11.15 | 108.22 | 113.80 |
| 2 | B | 11 | A | N7-C8-N9 | -11.15 | 108.22 | 113.80 |
| 1 | A | 849 | A | N7-C8-N9 | -11.15 | 108.23 | 113.80 |
| 31 | W | 644 | A | N7-C8-N9 | -11.15 | 108.23 | 113.80 |
| 1 | A | 343 | A | N7-C8-N9 | -11.15 | 108.23 | 113.80 |
| 1 | A | 1768 | A | N7-C8-N9 | -11.15 | 108.23 | 113.80 |
| 1 | A | 1999 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 1 | A | 437 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 1 | A | 574 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 1 | A | 790 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 31 | W | 1161 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 31 | W | 337 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 1 | A | 2616 | A | N7-C8-N9 | -11.14 | 108.23 | 113.80 |
| 1 | A | 925 | A | N7-C8-N9 | -11.13 | 108.23 | 113.80 |
| 1 | A | 1697 | A | N7-C8-N9 | -11.13 | 108.23 | 113.80 |
| 1 | A | 2339 | A | N7-C8-N9 | -11.13 | 108.23 | 113.80 |
| 31 | W | 984 | A | N7-C8-N9 | -11.13 | 108.23 | 113.80 |
| 1 | A | 971 | A | N7-C8-N9 | -11.13 | 108.23 | 113.80 |
| 31 | W | 583 | A | N7-C8-N9 | -11.13 | 108.23 | 113.80 |
| 1 | A | 689 | A | N7-C8-N9 | -11.13 | 108.24 | 113.80 |
| 1 | A | 1930 | A | N7-C8-N9 | -11.13 | 108.24 | 113.80 |
| 1 | A | 1919 | A | N7-C8-N9 | -11.13 | 108.24 | 113.80 |
| 51 | 1 | 9 | A | N7-C8-N9 | -11.13 | 108.24 | 113.80 |
| 1 | A | 1614 | A | N7-C8-N9 | -11.13 | 108.24 | 113.80 |
| 1 | A | 935 | A | N3-C4-C5 | -11.12 | 119.01 | 126.80 |
| 31 | W | 711 | A | N7-C8-N9 | -11.12 | 108.24 | 113.80 |
| 31 | W | 793 | A | N7-C8-N9 | -11.12 | 108.24 | 113.80 |
| 2 | B | 13 | A | N7-C8-N9 | -11.11 | 108.24 | 113.80 |
| 1 | A | 52 | A | N7-C8-N9 | -11.11 | 108.25 | 113.80 |
| 1 | A | 2844 | A | N7-C8-N9 | -11.11 | 108.25 | 113.80 |
| 1 | A | 683 | A | N7-C8-N9 | -11.11 | 108.25 | 113.80 |
| 1 | A | 95 | A | N7-C8-N9 | -11.10 | 108.25 | 113.80 |
| 1 | A | 1882 | A | N7-C8-N9 | -11.10 | 108.25 | 113.80 |
| 1 | A | 1244 | A | N7-C8-N9 | -11.10 | 108.25 | 113.80 |
| 31 | W | 390 | A | N7-C8-N9 | -11.10 | 108.25 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 968 | A | N7-C8-N9 | -11.09 | 108.25 | 113.80 |
| 1 | A | 1075 | A | N7-C8-N9 | -11.09 | 108.26 | 113.80 |
| 1 | A | 699 | A | N7-C8-N9 | -11.09 | 108.26 | 113.80 |
| 31 | W | 969 | A | N7-C8-N9 | -11.09 | 108.26 | 113.80 |
| 1 | A | 1876 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 1 | A | 2779 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 1 | A | 908 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 1 | A | 1265 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 1 | A | 2468 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 31 | W | 1283 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 31 | W | 1341 | A | N7-C8-N9 | -11.08 | 108.26 | 113.80 |
| 31 | W | 457 | A | N7-C8-N9 | -11.07 | 108.27 | 113.80 |
| 1 | A | 1680 | A | N7-C8-N9 | -11.07 | 108.27 | 113.80 |
| 1 | A | 1453 | A | N7-C8-N9 | -11.06 | 108.27 | 113.80 |
| 1 | A | 616 | A | N7-C8-N9 | -11.06 | 108.27 | 113.80 |
| 31 | W | 572 | A | N3-C4-C5 | -11.05 | 119.06 | 126.80 |
| 1 | A | 958 | A | N7-C8-N9 | -11.05 | 108.27 | 113.80 |
| 1 | A | 2091 | A | N7-C8-N9 | -11.05 | 108.27 | 113.80 |
| 1 | A | 948 | A | N7-C8-N9 | -11.05 | 108.28 | 113.80 |
| 1 | A | 956 | A | N7-C8-N9 | -11.05 | 108.28 | 113.80 |
| 1 | A | 53 | A | N7-C8-N9 | -11.04 | 108.28 | 113.80 |
| 1 | A | 1021 | A | N7-C8-N9 | -11.04 | 108.28 | 113.80 |
| 1 | A | 1839 | A | N7-C8-N9 | -11.04 | 108.28 | 113.80 |
| 1 | A | 2327 | A | N7-C8-N9 | -11.04 | 108.28 | 113.80 |
| 31 | W | 1294 | A | N7-C8-N9 | -11.04 | 108.28 | 113.80 |
| 1 | A | 2778 | A | N7-C8-N9 | -11.03 | 108.29 | 113.80 |
| 1 | A | 2357 | A | N7-C8-N9 | -11.03 | 108.29 | 113.80 |
| 1 | A | 2405 | A | N7-C8-N9 | -11.03 | 108.29 | 113.80 |
| 31 | W | 548 | A | N7-C8-N9 | -11.03 | 108.29 | 113.80 |
| 31 | W | 1288 | A | N7-C8-N9 | -11.03 | 108.29 | 113.80 |
| 1 | A | 2794 | A | N7-C8-N9 | -11.02 | 108.29 | 113.80 |
| 31 | W | 911 | A | N7-C8-N9 | -11.01 | 108.30 | 113.80 |
| 1 | A | 1767 | A | N7-C8-N9 | -11.01 | 108.30 | 113.80 |
| 31 | W | 99 | A | N7-C8-N9 | -11.00 | 108.30 | 113.80 |
| 1 | A | 1667 | A | N7-C8-N9 | -11.00 | 108.30 | 113.80 |
| 1 | A | 1056 | A | N7-C8-N9 | -10.99 | 108.30 | 113.80 |
| 1 | A | 1774 | A | N7-C8-N9 | -10.99 | 108.30 | 113.80 |
| 1 | A | 2532 | A | N7-C8-N9 | -10.99 | 108.30 | 113.80 |
| 1 | A | 527 | A | N7-C8-N9 | -10.99 | 108.31 | 113.80 |
| 1 | A | 1965 | A | N7-C8-N9 | -10.98 | 108.31 | 113.80 |
| 31 | W | 1427 | A | N7-C8-N9 | -10.98 | 108.31 | 113.80 |
| 31 | W | 1189 | A | N7-C8-N9 | -10.98 | 108.31 | 113.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2593 | A | N7-C8-N9 | -10.98 | 108.31 | 113.80 |
| 1 | A | 2296 | A | N7-C8-N9 | -10.98 | 108.31 | 113.80 |
| 1 | A | 656 | A | N7-C8-N9 | -10.97 | 108.32 | 113.80 |
| 1 | A | 1900 | A | N7-C8-N9 | -10.96 | 108.32 | 113.80 |
| 1 | A | 2459 | A | N7-C8-N9 | -10.96 | 108.32 | 113.80 |
| 31 | W | 1155 | A | N7-C8-N9 | -10.96 | 108.32 | 113.80 |
| 31 | W | 1236 | A | N7-C8-N9 | -10.96 | 108.32 | 113.80 |
| 31 | W | 1372 | A | N7-C8-N9 | -10.96 | 108.32 | 113.80 |
| 1 | A | 1877 | A | N7-C8-N9 | -10.95 | 108.32 | 113.80 |
| 31 | W | 519 | A | N7-C8-N9 | -10.95 | 108.32 | 113.80 |
| 1 | A | 1398 | A | N7-C8-N9 | -10.95 | 108.33 | 113.80 |
| 1 | A | 2407 | A | N7-C8-N9 | -10.94 | 108.33 | 113.80 |
| 1 | A | 2704 | A | N7-C8-N9 | -10.94 | 108.33 | 113.80 |
| 1 | A | 90 | A | N7-C8-N9 | -10.94 | 108.33 | 113.80 |
| 1 | A | 390 | A | N7-C8-N9 | -10.94 | 108.33 | 113.80 |
| 1 | A | 527 | A | N3-C4-C5 | -10.93 | 119.15 | 126.80 |
| 1 | A | 1562 | A | N7-C8-N9 | -10.93 | 108.33 | 113.80 |
| 1 | A | 2786 | A | N3-C4-C5 | -10.93 | 119.15 | 126.80 |
| 2 | B | 99 | A | N3-C4-C5 | -10.93 | 119.15 | 126.80 |
| 1 | A | 1832 | A | N7-C8-N9 | -10.93 | 108.34 | 113.80 |
| 31 | W | 405 | A | N7-C8-N9 | -10.93 | 108.34 | 113.80 |
| 31 | W | 555 | A | N7-C8-N9 | -10.93 | 108.34 | 113.80 |
| 1 | A | 494 | A | N7-C8-N9 | -10.92 | 108.34 | 113.80 |
| 31 | W | 1234 | A | N7-C8-N9 | -10.92 | 108.34 | 113.80 |
| 1 | A | 438 | A | N7-C8-N9 | -10.92 | 108.34 | 113.80 |
| 1 | A | 765 | A | N7-C8-N9 | -10.91 | 108.34 | 113.80 |
| 1 | A | 2848 | A | N7-C8-N9 | -10.90 | 108.35 | 113.80 |
| 1 | A | 1485 | A | N7-C8-N9 | -10.90 | 108.35 | 113.80 |
| 1 | A | 678 | A | N7-C8-N9 | -10.88 | 108.36 | 113.80 |
| 1 | A | 830 | A | N7-C8-N9 | -10.88 | 108.36 | 113.80 |
| 31 | W | 727 | A | N7-C8-N9 | -10.88 | 108.36 | 113.80 |
| 1 | A | 1340 | A | N7-C8-N9 | -10.87 | 108.36 | 113.80 |
| 31 | W | 1234 | A | N3-C4-C5 | -10.87 | 119.19 | 126.80 |
| 1 | A | 1820 | A | N7-C8-N9 | -10.87 | 108.37 | 113.80 |
| 1 | A | 1067 | A | N7-C8-N9 | -10.86 | 108.37 | 113.80 |
| 1 | A | 1655 | A | N7-C8-N9 | -10.86 | 108.37 | 113.80 |
| 1 | A | 2691 | A | N7-C8-N9 | -10.85 | 108.38 | 113.80 |
| 1 | A | 1581 | A | N3-C4-C5 | -10.84 | 119.21 | 126.80 |
| 1 | A | 2689 | A | N7-C8-N9 | -10.84 | 108.38 | 113.80 |
| 1 | A | 1097 | A | N7-C8-N9 | -10.83 | 108.38 | 113.80 |
| 1 | A | 1928 | A | N7-C8-N9 | -10.83 | 108.39 | 113.80 |
| 31 | W | 195 | A | N3-C4-C5 | -10.83 | 119.22 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 439 | A | N7-C8-N9 | -10.83 | 108.39 | 113.80 |
| 1 | A | 913 | A | N7-C8-N9 | -10.82 | 108.39 | 113.80 |
| 31 | W | 987 | A | N7-C8-N9 | -10.81 | 108.39 | 113.80 |
| 31 | W | 1315 | A | N7-C8-N9 | -10.81 | 108.39 | 113.80 |
| 31 | W | 1016 | A | N7-C8-N9 | -10.81 | 108.40 | 113.80 |
| 1 | A | 254 | A | N7-C8-N9 | -10.79 | 108.41 | 113.80 |
| 1 | A | 593 | A | N7-C8-N9 | -10.78 | 108.41 | 113.80 |
| 31 | W | 308 | A | N7-C8-N9 | -10.78 | 108.41 | 113.80 |
| 1 | A | 1714 | A | N7-C8-N9 | -10.76 | 108.42 | 113.80 |
| 1 | A | 593 | A | N3-C4-C5 | -10.74 | 119.28 | 126.80 |
| 1 | A | 634 | A | N7-C8-N9 | -10.73 | 108.43 | 113.80 |
| 31 | W | 933 | A | N7-C8-N9 | -10.72 | 108.44 | 113.80 |
| 1 | A | 513 | A | N3-C4-C5 | -10.70 | 119.31 | 126.80 |
| 31 | W | 114 | A | N7-C8-N9 | -10.70 | 108.45 | 113.80 |
| 1 | A | 1883 | A | N7-C8-N9 | -10.68 | 108.46 | 113.80 |
| 31 | W | 195 | A | N7-C8-N9 | -10.68 | 108.46 | 113.80 |
| 31 | W | 1288 | A | N3-C4-C5 | -10.67 | 119.33 | 126.80 |
| 1 | A | 1491 | A | N7-C8-N9 | -10.67 | 108.47 | 113.80 |
| 31 | W | 572 | A | N7-C8-N9 | -10.66 | 108.47 | 113.80 |
| 1 | A | 1019 | A | N7-C8-N9 | -10.66 | 108.47 | 113.80 |
| 31 | W | 987 | A | N3-C4-C5 | -10.64 | 119.35 | 126.80 |
| 1 | A | 913 | A | N3-C4-C5 | -10.64 | 119.35 | 126.80 |
| 1 | A | 948 | A | N3-C4-C5 | -10.61 | 119.37 | 126.80 |
| 31 | W | 391 | A | N7-C8-N9 | -10.61 | 108.49 | 113.80 |
| 1 | A | 390 | A | N3-C4-C5 | -10.60 | 119.38 | 126.80 |
| 1 | A | 935 | A | N7-C8-N9 | -10.56 | 108.52 | 113.80 |
| 31 | W | 99 | A | N3-C4-C5 | -10.55 | 119.42 | 126.80 |
| 31 | W | 1026 | A | N7-C8-N9 | -10.54 | 108.53 | 113.80 |
| 1 | A | 2627 | A | N3-C4-C5 | -10.52 | 119.43 | 126.80 |
| 1 | A | 254 | A | N3-C4-C5 | -10.52 | 119.44 | 126.80 |
| 1 | A | 1006 | A | N3-C4-C5 | -10.52 | 119.44 | 126.80 |
| 1 | A | 1667 | A | N3-C4-C5 | -10.52 | 119.44 | 126.80 |
| 1 | A | 108 | A | N3-C4-C5 | -10.52 | 119.44 | 126.80 |
| 1 | A | 1581 | A | N7-C8-N9 | -10.51 | 108.54 | 113.80 |
| 31 | W | 1026 | A | N3-C4-C5 | -10.50 | 119.45 | 126.80 |
| 1 | A | 2786 | A | N7-C8-N9 | -10.49 | 108.55 | 113.80 |
| 31 | W | 1308 | A | N7-C8-N9 | -10.47 | 108.56 | 113.80 |
| 1 | A | 1006 | A | N7-C8-N9 | -10.47 | 108.57 | 113.80 |
| 1 | A | 2459 | A | N3-C4-C5 | -10.46 | 119.48 | 126.80 |
| 31 | W | 993 | A | N7-C8-N9 | -10.45 | 108.57 | 113.80 |
| 1 | A | 2407 | A | N3-C4-C5 | -10.45 | 119.49 | 126.80 |
| 1 | A | 1778 | A | N3-C4-C5 | -10.44 | 119.49 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|--------|-------------|----------|
| 1 | A | 732 | A | N3-C4-C5 | -10.44 | 119.49 | 126.80 |
| 1 | A | 736 | A | N3-C4-C5 | -10.44 | 119.49 | 126.80 |
| 1 | A | 634 | A | N3-C4-C5 | -10.42 | 119.51 | 126.80 |
| 1 | A | 2885 | A | N7-C8-N9 | -10.41 | 108.59 | 113.80 |
| 1 | A | 1485 | A | N3-C4-C5 | -10.40 | 119.52 | 126.80 |
| 1 | A | 365 | U | P-O3'-C3' | -10.39 | 107.23 | 119.70 |
| 2 | B | 11 | A | N3-C4-C5 | -10.38 | 119.53 | 126.80 |
| 1 | A | 1360 | A | N3-C4-C5 | -10.38 | 119.53 | 126.80 |
| 1 | A | 2885 | A | N3-C4-C5 | -10.38 | 119.53 | 126.80 |
| 1 | A | 2339 | A | N3-C4-C5 | -10.38 | 119.53 | 126.80 |
| 1 | A | 1073 | A | N3-C4-C5 | -10.38 | 119.54 | 126.80 |
| 31 | W | 1166 | A | N3-C4-C5 | -10.37 | 119.54 | 126.80 |
| 31 | W | 1278 | A | N3-C4-C5 | -10.37 | 119.54 | 126.80 |
| 1 | A | 910 | A | N3-C4-C5 | -10.37 | 119.54 | 126.80 |
| 31 | W | 1341 | A | N3-C4-C5 | -10.36 | 119.55 | 126.80 |
| 1 | A | 2844 | A | N3-C4-C5 | -10.36 | 119.55 | 126.80 |
| 1 | A | 1562 | A | N3-C4-C5 | -10.36 | 119.55 | 126.80 |
| 1 | A | 1132 | A | N3-C4-C5 | -10.35 | 119.55 | 126.80 |
| 1 | A | 437 | A | N3-C4-C5 | -10.35 | 119.55 | 126.80 |
| 31 | W | 1278 | A | N7-C8-N9 | -10.35 | 108.62 | 113.80 |
| 1 | A | 2794 | A | N3-C4-C5 | -10.35 | 119.56 | 126.80 |
| 1 | A | 1638 | A | N3-C4-C5 | -10.35 | 119.56 | 126.80 |
| 1 | A | 2735 | A | N3-C4-C5 | -10.35 | 119.56 | 126.80 |
| 1 | A | 1877 | A | N3-C4-C5 | -10.34 | 119.56 | 126.80 |
| 31 | W | 391 | A | N3-C4-C5 | -10.34 | 119.56 | 126.80 |
| 1 | A | 2402 | A | N3-C4-C5 | -10.34 | 119.56 | 126.80 |
| 31 | W | 114 | A | N3-C4-C5 | -10.33 | 119.57 | 126.80 |
| 1 | A | 551 | A | N3-C4-C5 | -10.33 | 119.57 | 126.80 |
| 31 | W | 933 | A | N3-C4-C5 | -10.33 | 119.57 | 126.80 |
| 51 | 1 | 9 | A | N3-C4-C5 | -10.32 | 119.57 | 126.80 |
| 1 | A | 732 | A | N7-C8-N9 | -10.31 | 108.64 | 113.80 |
| 1 | A | 1491 | A | N3-C4-C5 | -10.31 | 119.58 | 126.80 |
| 31 | W | 308 | A | N3-C4-C5 | -10.31 | 119.58 | 126.80 |
| 1 | A | 1222 | A | N3-C4-C5 | -10.30 | 119.59 | 126.80 |
| 1 | A | 1480 | A | N3-C4-C5 | -10.30 | 119.59 | 126.80 |
| 1 | A | 1506 | A | N3-C4-C5 | -10.30 | 119.59 | 126.80 |
| 1 | A | 679 | A | N7-C8-N9 | -10.29 | 108.66 | 113.80 |
| 31 | W | 727 | A | N3-C4-C5 | -10.29 | 119.60 | 126.80 |
| 1 | A | 679 | A | N3-C4-C5 | -10.29 | 119.60 | 126.80 |
| 1 | A | 1398 | A | N3-C4-C5 | -10.29 | 119.60 | 126.80 |
| 1 | A | 438 | A | N3-C4-C5 | -10.28 | 119.61 | 126.80 |
| 1 | A | 715 | A | N3-C4-C5 | -10.28 | 119.61 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2627 | A | N7-C8-N9 | -10.28 | 108.66 | 113.80 |
| 1 | A | 226 | A | N7-C8-N9 | -10.27 | 108.67 | 113.80 |
| 31 | W | 128 | A | N3-C4-C5 | -10.27 | 119.61 | 126.80 |
| 2 | B | 46 | A | N3-C4-C5 | -10.27 | 119.61 | 126.80 |
| 51 | 1 | 24 | A | N3-C4-C5 | -10.27 | 119.61 | 126.80 |
| 51 | y | 9 | A | N3-C4-C5 | -10.26 | 119.62 | 126.80 |
| 1 | A | 130 | A | N3-C4-C5 | -10.26 | 119.62 | 126.80 |
| 1 | A | 1442 | A | N3-C4-C5 | -10.26 | 119.62 | 126.80 |
| 31 | W | 649 | A | N3-C4-C5 | -10.25 | 119.63 | 126.80 |
| 1 | A | 1900 | A | N3-C4-C5 | -10.24 | 119.63 | 126.80 |
| 1 | A | 1839 | A | N3-C4-C5 | -10.24 | 119.63 | 126.80 |
| 1 | A | 2862 | A | N3-C4-C5 | -10.24 | 119.64 | 126.80 |
| 1 | A | 185 | A | N3-C4-C5 | -10.23 | 119.64 | 126.80 |
| 1 | A | 2532 | A | N3-C4-C5 | -10.23 | 119.64 | 126.80 |
| 1 | A | 559 | A | N3-C4-C5 | -10.22 | 119.65 | 126.80 |
| 1 | A | 1490 | A | N3-C4-C5 | -10.22 | 119.64 | 126.80 |
| 1 | A | 2329 | A | N3-C4-C5 | -10.22 | 119.65 | 126.80 |
| 31 | W | 844 | A | N3-C4-C5 | -10.22 | 119.65 | 126.80 |
| 1 | A | 1096 | A | N3-C4-C5 | -10.22 | 119.65 | 126.80 |
| 1 | A | 168 | A | N3-C4-C5 | -10.21 | 119.65 | 126.80 |
| 1 | A | 1619 | A | N3-C4-C5 | -10.21 | 119.65 | 126.80 |
| 31 | W | 57 | A | N3-C4-C5 | -10.21 | 119.65 | 126.80 |
| 31 | W | 1004 | A | N3-C4-C5 | -10.21 | 119.65 | 126.80 |
| 1 | A | 656 | A | N3-C4-C5 | -10.21 | 119.65 | 126.80 |
| 1 | A | 513 | A | N7-C8-N9 | -10.21 | 108.70 | 113.80 |
| 1 | A | 1858 | A | N3-C4-C5 | -10.20 | 119.66 | 126.80 |
| 1 | A | 1103 | A | N3-C4-C5 | -10.20 | 119.66 | 126.80 |
| 31 | W | 1065 | A | N3-C4-C5 | -10.20 | 119.66 | 126.80 |
| 51 | y | 24 | A | N3-C4-C5 | -10.20 | 119.66 | 126.80 |
| 1 | A | 765 | A | N3-C4-C5 | -10.20 | 119.66 | 126.80 |
| 31 | W | 74 | A | N3-C4-C5 | -10.20 | 119.66 | 126.80 |
| 31 | W | 1155 | A | N3-C4-C5 | -10.19 | 119.67 | 126.80 |
| 1 | A | 1536 | A | N3-C4-C5 | -10.19 | 119.67 | 126.80 |
| 1 | A | 2027 | A | N3-C4-C5 | -10.19 | 119.67 | 126.80 |
| 31 | W | 838 | A | N3-C4-C5 | -10.19 | 119.67 | 126.80 |
| 1 | A | 2694 | A | N3-C4-C5 | -10.18 | 119.67 | 126.80 |
| 31 | W | 397 | A | N3-C4-C5 | -10.18 | 119.67 | 126.80 |
| 1 | A | 2106 | A | N3-C4-C5 | -10.18 | 119.67 | 126.80 |
| 31 | W | 507 | A | N3-C4-C5 | -10.17 | 119.68 | 126.80 |
| 1 | A | 1999 | A | N3-C4-C5 | -10.17 | 119.68 | 126.80 |
| 1 | A | 52 | A | N3-C4-C5 | -10.17 | 119.68 | 126.80 |
| 2 | B | 13 | A | N3-C4-C5 | -10.16 | 119.69 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 456 | A | N3-C4-C5 | -10.16 | 119.69 | 126.80 |
| 31 | W | 790 | A | N3-C4-C5 | -10.16 | 119.69 | 126.80 |
| 1 | A | 95 | A | N3-C4-C5 | -10.16 | 119.69 | 126.80 |
| 1 | A | 1005 | A | N3-C4-C5 | -10.16 | 119.69 | 126.80 |
| 1 | A | 2560 | A | N3-C4-C5 | -10.16 | 119.69 | 126.80 |
| 1 | A | 1392 | A | N3-C4-C5 | -10.15 | 119.70 | 126.80 |
| 1 | A | 2343 | A | N3-C4-C5 | -10.15 | 119.70 | 126.80 |
| 31 | W | 721 | A | N3-C4-C5 | -10.15 | 119.70 | 126.80 |
| 1 | A | 1286 | A | N3-C4-C5 | -10.14 | 119.70 | 126.80 |
| 1 | A | 2689 | A | N3-C4-C5 | -10.14 | 119.70 | 126.80 |
| 1 | A | 56 | A | N3-C4-C5 | -10.14 | 119.70 | 126.80 |
| 1 | A | 2790 | A | N3-C4-C5 | -10.13 | 119.71 | 126.80 |
| 1 | A | 44 | A | N3-C4-C5 | -10.13 | 119.71 | 126.80 |
| 1 | A | 265 | A | N3-C4-C5 | -10.13 | 119.71 | 126.80 |
| 1 | A | 2111 | A | N3-C4-C5 | -10.13 | 119.71 | 126.80 |
| 31 | W | 1160 | A | N3-C4-C5 | -10.13 | 119.71 | 126.80 |
| 31 | W | 911 | A | N3-C4-C5 | -10.13 | 119.71 | 126.80 |
| 1 | A | 1691 | A | N7-C8-N9 | -10.13 | 108.74 | 113.80 |
| 1 | A | 690 | A | N3-C4-C5 | -10.12 | 119.71 | 126.80 |
| 1 | A | 1655 | A | N3-C4-C5 | -10.12 | 119.71 | 126.80 |
| 1 | A | 2691 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 1 | A | 2826 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 31 | W | 337 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 31 | W | 1236 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 1 | A | 1524 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 1 | A | 2026 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 1 | A | 2049 | A | N3-C4-C5 | -10.12 | 119.72 | 126.80 |
| 1 | A | 391 | A | N3-C4-C5 | -10.11 | 119.72 | 126.80 |
| 1 | A | 2349 | A | N3-C4-C5 | -10.11 | 119.72 | 126.80 |
| 1 | A | 2358 | A | N3-C4-C5 | -10.11 | 119.72 | 126.80 |
| 31 | W | 1315 | A | N3-C4-C5 | -10.11 | 119.72 | 126.80 |
| 1 | A | 2812 | A | N3-C4-C5 | -10.11 | 119.72 | 126.80 |
| 1 | A | 407 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 2 | B | 71 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 31 | W | 1427 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 1 | A | 1820 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 1 | A | 1876 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 51 | 1 | 41 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 1 | A | 1709 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 1 | A | 1710 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 1 | A | 689 | A | N3-C4-C5 | -10.10 | 119.73 | 126.80 |
| 1 | A | 574 | A | N3-C4-C5 | -10.09 | 119.74 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 1258 | A | N3-C4-C5 | -10.09 | 119.74 | 126.80 |
| 1 | A | 1618 | A | N3-C4-C5 | -10.09 | 119.74 | 126.80 |
| 31 | W | 711 | A | N3-C4-C5 | -10.09 | 119.74 | 126.80 |
| 31 | W | 55 | A | N3-C4-C5 | -10.09 | 119.74 | 126.80 |
| 1 | A | 1019 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 1 | A | 1816 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 31 | W | 1435 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 1 | A | 673 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 31 | W | 1425 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 1 | A | 2722 | A | N3-C4-C5 | -10.08 | 119.75 | 126.80 |
| 31 | W | 1256 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 31 | W | 1442 | A | N3-C4-C5 | -10.08 | 119.74 | 126.80 |
| 1 | A | 849 | A | N3-C4-C5 | -10.08 | 119.75 | 126.80 |
| 1 | A | 882 | A | N3-C4-C5 | -10.08 | 119.75 | 126.80 |
| 1 | A | 970 | A | N3-C4-C5 | -10.08 | 119.75 | 126.80 |
| 1 | A | 1695 | A | N3-C4-C5 | -10.08 | 119.75 | 126.80 |
| 1 | A | 156 | A | N3-C4-C5 | -10.07 | 119.75 | 126.80 |
| 1 | A | 1094 | A | N3-C4-C5 | -10.07 | 119.75 | 126.80 |
| 1 | A | 538 | A | N3-C4-C5 | -10.07 | 119.75 | 126.80 |
| 1 | A | 1426 | A | N3-C4-C5 | -10.07 | 119.75 | 126.80 |
| 1 | A | 1883 | A | N3-C4-C5 | -10.07 | 119.75 | 126.80 |
| 31 | W | 433 | A | N3-C4-C5 | -10.07 | 119.75 | 126.80 |
| 1 | A | 2831 | A | N3-C4-C5 | -10.06 | 119.75 | 126.80 |
| 31 | W | 793 | A | N3-C4-C5 | -10.06 | 119.75 | 126.80 |
| 1 | A | 1174 | A | N3-C4-C5 | -10.06 | 119.76 | 126.80 |
| 1 | A | 1776 | A | N3-C4-C5 | -10.06 | 119.76 | 126.80 |
| 31 | W | 956 | A | N3-C4-C5 | -10.06 | 119.76 | 126.80 |
| 1 | A | 1316 | A | N3-C4-C5 | -10.06 | 119.76 | 126.80 |
| 31 | W | 882 | A | N3-C4-C5 | -10.06 | 119.76 | 126.80 |
| 51 | 1 | 21 | A | N3-C4-C5 | -10.06 | 119.76 | 126.80 |
| 1 | A | 469 | A | N3-C4-C5 | -10.05 | 119.76 | 126.80 |
| 1 | A | 957 | A | N3-C4-C5 | -10.05 | 119.76 | 126.80 |
| 1 | A | 560 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 1 | A | 790 | A | N3-C4-C5 | -10.05 | 119.76 | 126.80 |
| 1 | A | 2043 | A | N3-C4-C5 | -10.05 | 119.76 | 126.80 |
| 31 | W | 1252 | A | N3-C4-C5 | -10.05 | 119.76 | 126.80 |
| 1 | A | 2663 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 31 | W | 948 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 1 | A | 1556 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 31 | W | 548 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 31 | W | 1016 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 31 | W | 1384 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 133 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 1 | A | 353 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 1 | A | 518 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 31 | W | 364 | A | N3-C4-C5 | -10.05 | 119.77 | 126.80 |
| 1 | A | 1046 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 31 | W | 282 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 1 | A | 231 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 1 | A | 258 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 31 | W | 1112 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 31 | W | 1189 | A | N3-C4-C5 | -10.04 | 119.77 | 126.80 |
| 1 | A | 530 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 2830 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 431 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 2827 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 31 | W | 76 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 31 | W | 1143 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 179 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 2369 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 2919 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 1190 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 1406 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 2351 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 31 | W | 1349 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 1074 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 2700 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 31 | W | 34 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 31 | W | 984 | A | N3-C4-C5 | -10.03 | 119.78 | 126.80 |
| 1 | A | 678 | A | N3-C4-C5 | -10.02 | 119.78 | 126.80 |
| 31 | W | 1260 | A | N3-C4-C5 | -10.02 | 119.78 | 126.80 |
| 31 | W | 1455 | A | N3-C4-C5 | -10.02 | 119.78 | 126.80 |
| 1 | A | 549 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 31 | W | 715 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 1 | A | 1483 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 1 | A | 616 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 1 | A | 894 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 1 | A | 943 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 1 | A | 1945 | A | N3-C4-C5 | -10.02 | 119.79 | 126.80 |
| 1 | A | 1357 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 1 | A | 1727 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 1 | A | 592 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 1 | A | 724 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 1 | A | 2395 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 31 | W | 978 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 1 | A | 1361 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 31 | W | 278 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 31 | W | 555 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 31 | W | 1272 | A | N3-C4-C5 | -10.01 | 119.79 | 126.80 |
| 1 | A | 578 | A | N3-C4-C5 | -10.01 | 119.80 | 126.80 |
| 1 | A | 1254 | A | N3-C4-C5 | -10.01 | 119.80 | 126.80 |
| 1 | A | 2436 | A | N3-C4-C5 | -10.01 | 119.80 | 126.80 |
| 1 | A | 2447 | A | N3-C4-C5 | -10.01 | 119.80 | 126.80 |
| 31 | W | 1179 | A | N3-C4-C5 | -10.01 | 119.80 | 126.80 |
| 1 | A | 661 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 1 | A | 38 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 1 | A | 1464 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 1 | A | 2461 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 1 | A | 462 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 1 | A | 2317 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 51 | y | 41 | A | N3-C4-C5 | -10.00 | 119.80 | 126.80 |
| 1 | A | 318 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 2066 | A | N3-C4-C5 | -9.99 | 119.80 | 126.80 |
| 31 | W | 671 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 51 | y | 23 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 925 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 1126 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 2052 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 2769 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 31 | W | 630 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 31 | W | 705 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 51 | 1 | 70 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 1885 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 326 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 866 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 31 | W | 811 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 31 | W | 996 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 31 | W | 1493 | A | N3-C4-C5 | -9.99 | 119.81 | 126.80 |
| 1 | A | 41 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 2704 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 2779 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 1253 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 1421 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 1653 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 2754 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 1 | A | 2924 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1490 | A | N3-C4-C5 | -9.98 | 119.81 | 126.80 |
| 2 | B | 50 | A | N3-C4-C5 | -9.98 | 119.82 | 126.80 |
| 1 | A | 1848 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 2662 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 275 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 2845 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 2007 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 31 | W | 404 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 1210 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 1838 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 51 | y | 70 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 1636 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 1831 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 31 | W | 225 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 31 | W | 1478 | A | N3-C4-C5 | -9.97 | 119.82 | 126.80 |
| 1 | A | 376 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 1 | A | 956 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 2 | B | 18 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 1 | A | 171 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 1 | A | 1029 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 1 | A | 1845 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 31 | W | 959 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 31 | W | 1517 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 31 | W | 72 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 1 | A | 1947 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 31 | W | 270 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 31 | W | 605 | A | N3-C4-C5 | -9.96 | 119.83 | 126.80 |
| 31 | W | 522 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 1393 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 31 | W | 512 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 623 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 652 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 1233 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 1260 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 2643 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 31 | W | 140 | A | N3-C4-C5 | -9.95 | 119.83 | 126.80 |
| 1 | A | 500 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 1 | A | 1532 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 1 | A | 2100 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 1 | A | 2517 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 1 | A | 2619 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 2 | B | 97 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 61 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 31 | W | 529 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 31 | W | 886 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 31 | W | 902 | A | N3-C4-C5 | -9.95 | 119.84 | 126.80 |
| 31 | W | 918 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 200 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 1269 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 1685 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 2338 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 31 | W | 617 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 2365 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 51 | 1 | 23 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 1075 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 31 | W | 638 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 964 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 974 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 2668 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 2302 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 2570 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 278 | A | N3-C4-C5 | -9.94 | 119.85 | 126.80 |
| 31 | W | 173 | A | N3-C4-C5 | -9.94 | 119.85 | 126.80 |
| 31 | W | 1147 | A | N3-C4-C5 | -9.94 | 119.85 | 126.80 |
| 31 | W | 1486 | A | N3-C4-C5 | -9.94 | 119.84 | 126.80 |
| 1 | A | 1735 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 952 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 2848 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 31 | W | 81 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 91 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 206 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 1956 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 384 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 2270 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 31 | W | 423 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 1774 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 517 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 1895 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 2091 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 31 | W | 685 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 31 | W | 658 | A | N3-C4-C5 | -9.93 | 119.85 | 126.80 |
| 1 | A | 705 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |
| 1 | A | 1461 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |
| 1 | A | 1614 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 129 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |
| 31 | W | 875 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |
| 1 | A | 692 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |
| 1 | A | 1055 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 2389 | A | N3-C4-C5 | -9.92 | 119.85 | 126.80 |
| 1 | A | 867 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 1284 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 1767 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 2893 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 896 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 1100 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 2854 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 31 | W | 301 | A | N3-C4-C5 | -9.92 | 119.86 | 126.80 |
| 1 | A | 305 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 1405 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 31 | W | 659 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 31 | W | 1128 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 449 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 1588 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 1672 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 1813 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 2500 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 2719 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 31 | W | 1266 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 2 | B | 64 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 31 | W | 737 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 31 | W | 870 | A | N3-C4-C5 | -9.91 | 119.86 | 126.80 |
| 1 | A | 117 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 260 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 870 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1235 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1388 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1617 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 31 | W | 1320 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 31 | W | 1369 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1520 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 2047 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 889 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1375 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 2421 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 2 | B | 114 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 31 | W | 1259 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1297 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1965 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1194 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 51 | y | 21 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1541 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1553 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1928 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 2087 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 31 | W | 477 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 31 | W | 1222 | A | N3-C4-C5 | -9.90 | 119.87 | 126.80 |
| 1 | A | 1663 | A | N3-C4-C5 | -9.89 | 119.87 | 126.80 |
| 31 | W | 674 | A | N3-C4-C5 | -9.89 | 119.87 | 126.80 |
| 1 | A | 21 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 1918 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 31 | W | 1348 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 61 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 1680 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 2497 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 31 | W | 582 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 31 | W | 518 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 31 | W | 801 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 1686 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 2834 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 31 | W | 452 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 31 | W | 768 | A | N3-C4-C5 | -9.89 | 119.88 | 126.80 |
| 1 | A | 524 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 1 | A | 1130 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 31 | W | 1115 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 1 | A | 1620 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 1 | A | 1995 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 1 | A | 1097 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 1 | A | 1925 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 31 | W | 1238 | A | N3-C4-C5 | -9.88 | 119.88 | 126.80 |
| 1 | A | 281 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 1 | A | 1404 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 1 | A | 1424 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 1 | A | 600 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 31 | W | 170 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 31 | W | 1056 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 1 | A | 1677 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 1 | A | 1743 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |
| 31 | W | 381 | A | N3-C4-C5 | -9.88 | 119.89 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2441 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 2547 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 31 | W | 390 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 339 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 1477 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 2464 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 31 | W | 62 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 31 | W | 1294 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 31 | W | 1502 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 324 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 547 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 781 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 1230 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 1788 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 2032 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 51 | 1 | 44 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 144 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 154 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 330 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 553 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 1998 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 31 | W | 824 | A | N3-C4-C5 | -9.87 | 119.89 | 126.80 |
| 1 | A | 428 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 722 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 1746 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 31 | W | 139 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 31 | W | 1383 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 1981 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 2042 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 1025 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 2505 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 31 | W | 1437 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 31 | W | 1509 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 51 | 1 | 58 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 496 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 1059 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 31 | W | 251 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 31 | W | 1028 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 51 | 1 | 14 | A | N3-C4-C5 | -9.86 | 119.90 | 126.80 |
| 1 | A | 161 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 412 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 1456 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2316 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 31 | W | 945 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 31 | W | 1403 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 971 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 1606 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 1930 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 31 | W | 704 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 2462 | A | N3-C4-C5 | -9.85 | 119.90 | 126.80 |
| 1 | A | 259 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 418 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 1745 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 1675 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 2034 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 2 | B | 76 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 31 | W | 1405 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 65 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 429 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 829 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 830 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 1627 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 1760 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 1882 | A | N3-C4-C5 | -9.85 | 119.91 | 126.80 |
| 1 | A | 219 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 752 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 758 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 1178 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 1298 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 193 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 851 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 1516 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 2594 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 2 | B | 44 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 462 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 611 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 677 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 1327 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 883 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 917 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 947 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 1121 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 1523 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 125 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 220 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 369 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 808 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 314 | A | N3-C4-C5 | -9.84 | 119.92 | 126.80 |
| 1 | A | 1243 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 1608 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 2511 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 1 | A | 1631 | A | N3-C4-C5 | -9.84 | 119.92 | 126.80 |
| 1 | A | 2571 | A | N3-C4-C5 | -9.84 | 119.92 | 126.80 |
| 1 | A | 2805 | A | N3-C4-C5 | -9.84 | 119.92 | 126.80 |
| 1 | A | 2889 | A | N3-C4-C5 | -9.84 | 119.92 | 126.80 |
| 2 | B | 113 | A | N3-C4-C5 | -9.84 | 119.91 | 126.80 |
| 31 | W | 1200 | A | N3-C4-C5 | -9.84 | 119.92 | 126.80 |
| 1 | A | 470 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 548 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 868 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 922 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 357 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 1328 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 1312 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 2078 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 2629 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 519 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 796 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 799 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 71 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 176 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 329 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 2083 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 1366 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 622 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 31 | W | 35 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 876 | A | N3-C4-C5 | -9.83 | 119.92 | 126.80 |
| 1 | A | 307 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 507 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 978 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 1056 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 1700 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 2479 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 364 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 2750 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 31 | W | 335 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 771 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 1575 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 2463 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 2846 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 2869 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 2 | B | 99 | A | N7-C8-N9 | -9.82 | 108.89 | 113.80 |
| 31 | W | 371 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 31 | W | 1245 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 1 | A | 73 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 124 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 1888 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 2837 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 51 | y | 14 | A | N3-C4-C5 | -9.82 | 119.92 | 126.80 |
| 31 | W | 506 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 31 | W | 644 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 947 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 2902 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 2 | B | 43 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 31 | W | 919 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 31 | W | 1213 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 28 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 94 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 479 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 908 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 1850 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 2590 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 2887 | A | N3-C4-C5 | -9.82 | 119.93 | 126.80 |
| 1 | A | 1913 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 2 | B | 51 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 160 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 604 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 968 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 1111 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 743 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 12 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 90 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 758 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 1265 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 1113 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 2 | B | 20 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 440 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 31 | W | 1528 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 762 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 2060 | A | N3-C4-C5 | -9.81 | 119.93 | 126.80 |
| 1 | A | 2356 | A | N3-C4-C5 | -9.81 | 119.94 | 126.80 |
| 1 | A | 2673 | A | N3-C4-C5 | -9.81 | 119.94 | 126.80 |
| 31 | W | 271 | A | N3-C4-C5 | -9.81 | 119.94 | 126.80 |
| 31 | W | 1510 | A | N3-C4-C5 | -9.81 | 119.94 | 126.80 |
| 1 | A | 486 | A | N3-C4-C5 | -9.81 | 119.94 | 126.80 |
| 1 | A | 699 | A | N3-C4-C5 | -9.81 | 119.94 | 126.80 |
| 1 | A | 893 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 2900 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 314 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 389 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 581 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 1024 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 1054 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 140 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 178 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 2044 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 234 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 321 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 504 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 1768 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 2593 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 2851 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 2907 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 94 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 1014 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 236 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 1 | A | 1131 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 1346 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 1533 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 31 | W | 475 | A | N3-C4-C5 | -9.80 | 119.94 | 126.80 |
| 31 | W | 762 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 31 | W | 1120 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 102 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 1585 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 1615 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 1942 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 2405 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 1206 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 31 | W | 1176 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 1417 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1463 | A | N3-C4-C5 | -9.79 | 119.94 | 126.80 |
| 1 | A | 194 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 753 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 782 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 987 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 1542 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 2080 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 2480 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 190 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 1451 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 322 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 774 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 2708 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 333 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 1283 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 874 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 6 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 1 | A | 1224 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 12 | A | N3-C4-C5 | -9.79 | 119.95 | 126.80 |
| 31 | W | 161 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 31 | W | 210 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 1914 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 2071 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 31 | W | 825 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 216 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 543 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 1592 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 31 | W | 979 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 31 | W | 1180 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 229 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 279 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 1042 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 1569 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 1 | A | 1580 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 31 | W | 346 | A | N3-C4-C5 | -9.78 | 119.95 | 126.80 |
| 31 | W | 541 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 1 | A | 53 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 1 | A | 1141 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 2 | B | 37 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 1 | A | 1723 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 1 | A | 2006 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 1 | A | 2782 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 650 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 31 | W | 679 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 31 | W | 913 | A | N3-C4-C5 | -9.78 | 119.96 | 126.80 |
| 1 | A | 1818 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 2778 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 31 | W | 31 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 31 | W | 202 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 31 | W | 1092 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 31 | W | 1161 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 1047 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 618 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 1734 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 2734 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 31 | W | 463 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 31 | W | 1048 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 1144 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 1381 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 1901 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 2468 | A | N3-C4-C5 | -9.77 | 119.97 | 126.80 |
| 31 | W | 460 | A | N3-C4-C5 | -9.77 | 119.96 | 126.80 |
| 1 | A | 658 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 2381 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 31 | W | 52 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 31 | W | 618 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 31 | W | 1031 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 31 | W | 1103 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 1054 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 1115 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 173 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 225 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 2315 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 247 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 373 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 835 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 1499 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 2526 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 2658 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 2740 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 31 | W | 258 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 31 | W | 1342 | A | N3-C4-C5 | -9.76 | 119.97 | 126.80 |
| 1 | A | 1291 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 1 | A | 1697 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 2 | B | 56 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 1 | A | 537 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 31 | W | 828 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 1 | A | 110 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 1 | A | 958 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 1423 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 1654 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 31 | W | 1271 | A | N3-C4-C5 | -9.75 | 119.97 | 126.80 |
| 31 | W | 240 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 210 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 582 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 888 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 10 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 355 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 2303 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 31 | W | 329 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 31 | W | 1188 | A | N3-C4-C5 | -9.75 | 119.98 | 126.80 |
| 1 | A | 2440 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 769 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 1036 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 31 | W | 724 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 1066 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 1116 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 2357 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 2477 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 31 | W | 738 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 2923 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 51 | y | 58 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 637 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 2 | B | 105 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 31 | W | 67 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 31 | W | 616 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 51 | 1 | 76 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 1021 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 2307 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 337 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 630 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 717 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 1 | A | 1313 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 31 | W | 791 | A | N3-C4-C5 | -9.74 | 119.98 | 126.80 |
| 31 | W | 496 | A | N3-C4-C5 | -9.73 | 119.98 | 126.80 |
| 1 | A | 653 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2327 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 485 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 1529 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 13 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 198 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 664 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 672 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 1479 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 274 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 342 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 1583 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 1724 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 2912 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 53 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 725 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 2 | B | 102 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 696 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 923 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 31 | W | 1261 | A | N3-C4-C5 | -9.73 | 119.99 | 126.80 |
| 1 | A | 222 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 1 | A | 1175 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 1 | A | 1323 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 1 | A | 1789 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 31 | W | 532 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 31 | W | 803 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 31 | W | 1284 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 31 | W | 1456 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 1 | A | 770 | A | N3-C4-C5 | -9.72 | 119.99 | 126.80 |
| 1 | A | 1244 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 273 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 1989 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 31 | W | 228 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 31 | W | 372 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 31 | W | 1257 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 1072 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 31 | W | 456 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 31 | W | 1359 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 459 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 476 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 1326 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 31 | W | 1210 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 999 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1445 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 2362 | A | N3-C4-C5 | -9.72 | 120.00 | 126.80 |
| 1 | A | 727 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 1017 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 345 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 763 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 2860 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 281 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 439 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 1179 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 1453 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 2417 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 2876 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 1022 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 974 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 1185 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 1434 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 203 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 667 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 740 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 1601 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 1906 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 31 | W | 542 | A | N3-C4-C5 | -9.71 | 120.00 | 126.80 |
| 1 | A | 965 | A | N3-C4-C5 | -9.71 | 120.01 | 126.80 |
| 1 | A | 1189 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 1679 | A | N3-C4-C5 | -9.71 | 120.01 | 126.80 |
| 1 | A | 2762 | A | N3-C4-C5 | -9.71 | 120.01 | 126.80 |
| 31 | W | 204 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 1443 | A | N3-C4-C5 | -9.71 | 120.01 | 126.80 |
| 31 | W | 1503 | A | N3-C4-C5 | -9.71 | 120.01 | 126.80 |
| 1 | A | 2018 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 2406 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 2 | B | 55 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 683 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 1465 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 1929 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 2 | B | 27 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 2542 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 208 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 361 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 544 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 14 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1287 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 1721 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 1957 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 2295 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 491 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 1333 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 1470 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 139 | A | N3-C4-C5 | -9.69 | 120.01 | 126.80 |
| 1 | A | 1142 | A | N3-C4-C5 | -9.69 | 120.01 | 126.80 |
| 31 | W | 690 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 31 | W | 837 | A | N3-C4-C5 | -9.70 | 120.01 | 126.80 |
| 1 | A | 49 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 477 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 646 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 117 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 1488 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 677 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 389 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 1197 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 1434 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 2059 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 2661 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 206 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 786 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 1140 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 1541 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 2454 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 333 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 388 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 1308 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 1699 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 1797 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 1802 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 31 | W | 290 | A | N3-C4-C5 | -9.69 | 120.02 | 126.80 |
| 1 | A | 746 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 1277 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 1648 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 2297 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 31 | W | 1077 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 1540 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 1809 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 2787 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 230 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 31 | W | 367 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 1027 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 1266 | A | N3-C4-C5 | -9.68 | 120.02 | 126.80 |
| 1 | A | 572 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 1008 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 1119 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 1534 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 1791 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 2767 | A | N3-C4-C5 | -9.68 | 120.03 | 126.80 |
| 1 | A | 1325 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 2686 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 31 | W | 107 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 31 | W | 118 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 31 | W | 1205 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 1020 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 2875 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 2904 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 31 | W | 159 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 786 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 1161 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 31 | W | 757 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 31 | W | 928 | A | N3-C4-C5 | -9.67 | 120.03 | 126.80 |
| 1 | A | 1832 | A | N3-C4-C5 | -9.66 | 120.03 | 126.80 |
| 1 | A | 1014 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 2 | B | 39 | A | N3-C4-C5 | -9.66 | 120.03 | 126.80 |
| 31 | W | 344 | A | N3-C4-C5 | -9.66 | 120.03 | 126.80 |
| 31 | W | 382 | A | N3-C4-C5 | -9.66 | 120.03 | 126.80 |
| 31 | W | 669 | A | N3-C4-C5 | -9.66 | 120.03 | 126.80 |
| 31 | W | 823 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 31 | W | 266 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 1 | A | 67 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 31 | W | 1197 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 31 | W | 1248 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 31 | W | 831 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 1 | A | 519 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 1 | A | 1034 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 31 | W | 189 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 51 | y | 44 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 31 | W | 651 | A | N3-C4-C5 | -9.66 | 120.04 | 126.80 |
| 1 | A | 1593 | A | N3-C4-C5 | -9.65 | 120.04 | 126.80 |
| 1 | A | 1961 | A | N3-C4-C5 | -9.65 | 120.04 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1419 | A | N3-C4-C5 | -9.65 | 120.04 | 126.80 |
| 1 | A | 2364 | A | N3-C4-C5 | -9.65 | 120.04 | 126.80 |
| 1 | A | 702 | A | N3-C4-C5 | -9.65 | 120.05 | 126.80 |
| 1 | A | 821 | A | N3-C4-C5 | -9.65 | 120.05 | 126.80 |
| 1 | A | 2616 | A | N3-C4-C5 | -9.65 | 120.05 | 126.80 |
| 31 | W | 924 | A | N3-C4-C5 | -9.65 | 120.05 | 126.80 |
| 1 | A | 2383 | A | N3-C4-C5 | -9.65 | 120.05 | 126.80 |
| 1 | A | 268 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 1 | A | 325 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 296 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 306 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 1 | A | 1335 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 178 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 148 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 776 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 1102 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 1 | A | 1026 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 31 | W | 211 | A | N3-C4-C5 | -9.64 | 120.05 | 126.80 |
| 1 | A | 1722 | A | N3-C4-C5 | -9.64 | 120.06 | 126.80 |
| 1 | A | 421 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 1347 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 352 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 975 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 1713 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 459 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 474 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 1296 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 1339 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 1579 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 2482 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 287 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 568 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 1386 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 619 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 993 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 1504 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 2030 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 120 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 1207 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 5 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 31 | W | 438 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 1812 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1967 | A | N3-C4-C5 | -9.63 | 120.06 | 126.80 |
| 1 | A | 2296 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 1 | A | 2455 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 31 | W | 236 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 31 | W | 401 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 1 | A | 1517 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 1 | A | 2390 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 1 | A | 2398 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 1 | A | 2835 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 31 | W | 684 | A | N3-C4-C5 | -9.62 | 120.06 | 126.80 |
| 31 | W | 777 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 1 | A | 199 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 1 | A | 2595 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 31 | W | 730 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 31 | W | 1513 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 1 | A | 1941 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 1 | A | 2498 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 1 | A | 2375 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 31 | W | 10 | A | N3-C4-C5 | -9.62 | 120.07 | 126.80 |
| 31 | W | 142 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 84 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 2000 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 2298 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 2340 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 2807 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 31 | W | 1270 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 166 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 2330 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 1 | A | 448 | A | N3-C4-C5 | -9.61 | 120.07 | 126.80 |
| 31 | W | 28 | A | N3-C4-C5 | -9.61 | 120.08 | 126.80 |
| 1 | A | 1202 | A | N3-C4-C5 | -9.61 | 120.08 | 126.80 |
| 1 | A | 2770 | A | N3-C4-C5 | -9.61 | 120.08 | 126.80 |
| 31 | W | 151 | A | N3-C4-C5 | -9.61 | 120.08 | 126.80 |
| 31 | W | 1050 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 1 | A | 150 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 31 | W | 422 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 31 | W | 150 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 1 | A | 436 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 31 | W | 569 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 1 | A | 343 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 1 | A | 917 | A | N3-C4-C5 | -9.60 | 120.08 | 126.80 |
| 1 | A | 1948 | A | N3-C4-C5 | -9.59 | 120.08 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 659 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 1 | A | 1084 | A | N3-C4-C5 | -9.59 | 120.08 | 126.80 |
| 1 | A | 1314 | A | N3-C4-C5 | -9.59 | 120.08 | 126.80 |
| 1 | A | 2276 | A | N3-C4-C5 | -9.59 | 120.08 | 126.80 |
| 1 | A | 302 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 1 | A | 1157 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 1 | A | 2804 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 1 | A | 504 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 1 | A | 584 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 2 | B | 25 | A | N3-C4-C5 | -9.59 | 120.09 | 126.80 |
| 1 | A | 2387 | A | N3-C4-C5 | -9.58 | 120.09 | 126.80 |
| 31 | W | 583 | A | N3-C4-C5 | -9.58 | 120.09 | 126.80 |
| 31 | W | 501 | A | N3-C4-C5 | -9.58 | 120.09 | 126.80 |
| 31 | W | 386 | A | N3-C4-C5 | -9.57 | 120.10 | 126.80 |
| 31 | W | 457 | A | N3-C4-C5 | -9.57 | 120.10 | 126.80 |
| 31 | W | 592 | A | N3-C4-C5 | -9.57 | 120.10 | 126.80 |
| 31 | W | 910 | A | N3-C4-C5 | -9.57 | 120.10 | 126.80 |
| 31 | W | 1133 | A | N3-C4-C5 | -9.57 | 120.10 | 126.80 |
| 1 | A | 525 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 1 | A | 575 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 1 | A | 2262 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 2 | B | 17 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 1 | A | 561 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 31 | W | 1358 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 1 | A | 723 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 31 | W | 969 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 31 | W | 18 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 31 | W | 929 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 1 | A | 526 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 1 | A | 2088 | A | N3-C4-C5 | -9.56 | 120.11 | 126.80 |
| 31 | W | 713 | A | N3-C4-C5 | -9.55 | 120.11 | 126.80 |
| 1 | A | 991 | A | N3-C4-C5 | -9.55 | 120.11 | 126.80 |
| 1 | A | 1221 | A | N3-C4-C5 | -9.55 | 120.11 | 126.80 |
| 31 | W | 171 | A | N3-C4-C5 | -9.55 | 120.11 | 126.80 |
| 31 | W | 816 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 31 | W | 1225 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 31 | W | 1289 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 1 | A | 1123 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 1 | A | 1919 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 31 | W | 775 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 31 | W | 1254 | A | N3-C4-C5 | -9.55 | 120.12 | 126.80 |
| 1 | A | 475 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 904 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 1 | A | 2683 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 1 | A | 224 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 1 | A | 1784 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 31 | W | 879 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 1 | A | 1432 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 1 | A | 1905 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 31 | W | 925 | A | N3-C4-C5 | -9.54 | 120.12 | 126.80 |
| 31 | W | 1512 | A | N3-C4-C5 | -9.54 | 120.13 | 126.80 |
| 31 | W | 1466 | A | N3-C4-C5 | -9.53 | 120.13 | 126.80 |
| 1 | A | 64 | A | N3-C4-C5 | -9.53 | 120.13 | 126.80 |
| 31 | W | 1090 | A | N3-C4-C5 | -9.53 | 120.13 | 126.80 |
| 1 | A | 811 | A | N3-C4-C5 | -9.52 | 120.13 | 126.80 |
| 1 | A | 1966 | A | N3-C4-C5 | -9.52 | 120.14 | 126.80 |
| 31 | W | 1006 | A | N3-C4-C5 | -9.52 | 120.14 | 126.80 |
| 1 | A | 2810 | A | N3-C4-C5 | -9.52 | 120.14 | 126.80 |
| 1 | A | 828 | A | N3-C4-C5 | -9.52 | 120.14 | 126.80 |
| 31 | W | 500 | A | N3-C4-C5 | -9.51 | 120.14 | 126.80 |
| 1 | A | 1473 | A | N3-C4-C5 | -9.51 | 120.14 | 126.80 |
| 1 | A | 1302 | A | N3-C4-C5 | -9.51 | 120.14 | 126.80 |
| 31 | W | 415 | A | N3-C4-C5 | -9.51 | 120.14 | 126.80 |
| 31 | W | 1422 | A | N3-C4-C5 | -9.51 | 120.14 | 126.80 |
| 1 | A | 2908 | A | N3-C4-C5 | -9.50 | 120.15 | 126.80 |
| 1 | A | 1092 | A | N3-C4-C5 | -9.50 | 120.15 | 126.80 |
| 31 | W | 232 | A | N3-C4-C5 | -9.50 | 120.15 | 126.80 |
| 1 | A | 1149 | A | N3-C4-C5 | -9.50 | 120.15 | 126.80 |
| 1 | A | 2507 | A | N3-C4-C5 | -9.49 | 120.15 | 126.80 |
| 31 | W | 703 | A | N3-C4-C5 | -9.49 | 120.15 | 126.80 |
| 31 | W | 1407 | A | N3-C4-C5 | -9.49 | 120.16 | 126.80 |
| 31 | W | 1247 | A | N3-C4-C5 | -9.49 | 120.16 | 126.80 |
| 1 | A | 2898 | A | N3-C4-C5 | -9.49 | 120.16 | 126.80 |
| 1 | A | 118 | A | N3-C4-C5 | -9.48 | 120.16 | 126.80 |
| 1 | A | 1412 | A | N3-C4-C5 | -9.48 | 120.16 | 126.80 |
| 31 | W | 556 | A | N3-C4-C5 | -9.48 | 120.17 | 126.80 |
| 1 | A | 2618 | A | N3-C4-C5 | -9.47 | 120.17 | 126.80 |
| 1 | A | 1078 | A | N3-C4-C5 | -9.47 | 120.17 | 126.80 |
| 1 | A | 1815 | A | N3-C4-C5 | -9.47 | 120.17 | 126.80 |
| 1 | A | 202 | A | N3-C4-C5 | -9.47 | 120.17 | 126.80 |
| 1 | A | 847 | A | N3-C4-C5 | -9.47 | 120.17 | 126.80 |
| 1 | A | 1340 | A | N3-C4-C5 | -9.47 | 120.17 | 126.80 |
| 1 | A | 1555 | A | N3-C4-C5 | -9.46 | 120.18 | 126.80 |
| 31 | W | 899 | A | N3-C4-C5 | -9.46 | 120.18 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 1 | A | 244 | A | N3-C4-C5 | -9.45 | 120.19 | 126.80 |
| 1 | A | 2819 | A | N3-C4-C5 | -9.44 | 120.19 | 126.80 |
| 1 | A | 1844 | A | N3-C4-C5 | -9.44 | 120.19 | 126.80 |
| 1 | A | 354 | A | N3-C4-C5 | -9.43 | 120.20 | 126.80 |
| 1 | A | 494 | A | N3-C4-C5 | -9.43 | 120.20 | 126.80 |
| 1 | A | 1188 | A | N3-C4-C5 | -9.43 | 120.20 | 126.80 |
| 31 | W | 631 | A | N3-C4-C5 | -9.43 | 120.20 | 126.80 |
| 1 | A | 207 | A | N3-C4-C5 | -9.43 | 120.20 | 126.80 |
| 31 | W | 323 | A | N3-C4-C5 | -9.42 | 120.20 | 126.80 |
| 1 | A | 162 | A | N3-C4-C5 | -9.42 | 120.20 | 126.80 |
| 1 | A | 1061 | A | N3-C4-C5 | -9.42 | 120.20 | 126.80 |
| 1 | A | 1134 | A | N7-C8-N9 | -9.42 | 109.09 | 113.80 |
| 31 | W | 419 | A | N3-C4-C5 | -9.41 | 120.21 | 126.80 |
| 31 | W | 985 | A | N3-C4-C5 | -9.41 | 120.22 | 126.80 |
| 31 | W | 209 | A | N3-C4-C5 | -9.40 | 120.22 | 126.80 |
| 1 | A | 2670 | A | N3-C4-C5 | -9.40 | 120.22 | 126.80 |
| 1 | A | 2601 | A | N3-C4-C5 | -9.40 | 120.22 | 126.80 |
| 1 | A | 2916 | A | N3-C4-C5 | -9.40 | 120.22 | 126.80 |
| 31 | W | 988 | A | N3-C4-C5 | -9.39 | 120.22 | 126.80 |
| 1 | A | 2089 | A | N3-C4-C5 | -9.38 | 120.23 | 126.80 |
| 1 | A | 2777 | A | N3-C4-C5 | -9.38 | 120.23 | 126.80 |
| 1 | A | 126 | A | N3-C4-C5 | -9.38 | 120.23 | 126.80 |
| 1 | A | 374 | A | N3-C4-C5 | -9.36 | 120.25 | 126.80 |
| 1 | A | 2606 | A | N3-C4-C5 | -9.36 | 120.25 | 126.80 |
| 31 | W | 254 | A | N3-C4-C5 | -9.35 | 120.25 | 126.80 |
| 1 | A | 490 | A | N3-C4-C5 | -9.35 | 120.26 | 126.80 |
| 1 | A | 1814 | A | N3-C4-C5 | -9.34 | 120.26 | 126.80 |
| 1 | A | 1067 | A | N3-C4-C5 | -9.34 | 120.26 | 126.80 |
| 1 | A | 1305 | A | N3-C4-C5 | -9.33 | 120.27 | 126.80 |
| 1 | A | 2793 | A | N3-C4-C5 | -9.31 | 120.28 | 126.80 |
| 1 | A | 1417 | A | N3-C4-C5 | -9.31 | 120.28 | 126.80 |
| 31 | W | 862 | A | N3-C4-C5 | -9.29 | 120.30 | 126.80 |
| 1 | A | 1201 | A | N3-C4-C5 | -9.26 | 120.32 | 126.80 |
| 31 | W | 1355 | A | N3-C4-C5 | -9.26 | 120.32 | 126.80 |
| 1 | A | 647 | A | N3-C4-C5 | -9.26 | 120.32 | 126.80 |
| 1 | A | 2487 | U | C4'-C3'-O3' | 9.25 | 131.50 | 113.00 |
| 1 | A | 82 | G | C4'-C3'-O3' | -9.24 | 90.00 | 109.40 |
| 1 | A | 1003 | A | N3-C4-C5 | -9.24 | 120.33 | 126.80 |
| 1 | A | 1982 | A | N3-C4-C5 | -9.20 | 120.36 | 126.80 |
| 1 | A | 2062 | A | N3-C4-C5 | -9.20 | 120.36 | 126.80 |
| 1 | A | 183 | A | N3-C4-C5 | -9.19 | 120.37 | 126.80 |
| 1 | A | 501 | A | N3-C4-C5 | -9.06 | 120.45 | 126.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1372 | A | N3-C4-C5 | -9.02 | 120.48 | 126.80 |
| 1 | A | 501 | A | C5-N7-C8 | 8.95 | 108.38 | 103.90 |
| 1 | A | 2805 | A | C5-N7-C8 | 8.80 | 108.30 | 103.90 |
| 1 | A | 281 | A | C5-N7-C8 | 8.79 | 108.30 | 103.90 |
| 1 | A | 2049 | A | C5-N7-C8 | 8.76 | 108.28 | 103.90 |
| 31 | W | 508 | A | N3-C4-C5 | -8.74 | 120.68 | 126.80 |
| 31 | W | 57 | A | C5-N7-C8 | 8.71 | 108.26 | 103.90 |
| 1 | A | 527 | A | C5-N7-C8 | 8.67 | 108.23 | 103.90 |
| 1 | A | 1461 | A | C5-N7-C8 | 8.65 | 108.22 | 103.90 |
| 1 | A | 110 | A | C5-N7-C8 | 8.62 | 108.21 | 103.90 |
| 1 | A | 2364 | A | C5-N7-C8 | 8.59 | 108.20 | 103.90 |
| 1 | A | 1084 | A | C5-N7-C8 | 8.56 | 108.18 | 103.90 |
| 1 | A | 2837 | A | C5-N7-C8 | 8.55 | 108.17 | 103.90 |
| 1 | A | 1895 | A | C5-N7-C8 | 8.54 | 108.17 | 103.90 |
| 1 | A | 866 | A | C5-N7-C8 | 8.54 | 108.17 | 103.90 |
| 1 | A | 1998 | A | C5-N7-C8 | 8.54 | 108.17 | 103.90 |
| 1 | A | 2782 | A | C5-N7-C8 | 8.54 | 108.17 | 103.90 |
| 1 | A | 2770 | A | C5-N7-C8 | 8.53 | 108.17 | 103.90 |
| 31 | W | 768 | A | C5-N7-C8 | 8.53 | 108.17 | 103.90 |
| 31 | W | 10 | A | C5-N7-C8 | 8.51 | 108.16 | 103.90 |
| 1 | A | 449 | A | C5-N7-C8 | 8.51 | 108.16 | 103.90 |
| 1 | A | 1809 | A | C5-N7-C8 | 8.51 | 108.15 | 103.90 |
| 31 | W | 1510 | A | C5-N7-C8 | 8.50 | 108.15 | 103.90 |
| 1 | A | 538 | A | C5-N7-C8 | 8.49 | 108.15 | 103.90 |
| 1 | A | 1524 | A | C5-N7-C8 | 8.49 | 108.15 | 103.90 |
| 1 | A | 722 | A | C5-N7-C8 | 8.49 | 108.14 | 103.90 |
| 31 | W | 1222 | A | C5-N7-C8 | 8.49 | 108.14 | 103.90 |
| 1 | A | 1047 | A | C5-N7-C8 | 8.48 | 108.14 | 103.90 |
| 1 | A | 1961 | A | C5-N7-C8 | 8.48 | 108.14 | 103.90 |
| 31 | W | 31 | A | C5-N7-C8 | 8.47 | 108.14 | 103.90 |
| 1 | A | 526 | A | C5-N7-C8 | 8.47 | 108.14 | 103.90 |
| 31 | W | 790 | A | C5-N7-C8 | 8.47 | 108.14 | 103.90 |
| 1 | A | 584 | A | C5-N7-C8 | 8.47 | 108.14 | 103.90 |
| 31 | W | 532 | A | C5-N7-C8 | 8.47 | 108.14 | 103.90 |
| 31 | W | 1434 | A | C5-N7-C8 | 8.47 | 108.14 | 103.90 |
| 1 | A | 2923 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |
| 1 | A | 166 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |
| 1 | A | 2351 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |
| 31 | W | 206 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |
| 1 | A | 2670 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |
| 31 | W | 690 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |
| 31 | W | 1065 | A | C5-N7-C8 | 8.46 | 108.13 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2907 | A | C5-N7-C8 | 8.45 | 108.13 | 103.90 |
| 31 | W | 988 | A | C5-N7-C8 | 8.45 | 108.12 | 103.90 |
| 1 | A | 572 | A | C5-N7-C8 | 8.45 | 108.12 | 103.90 |
| 1 | A | 2618 | A | C5-N7-C8 | 8.45 | 108.12 | 103.90 |
| 1 | A | 1094 | A | C5-N7-C8 | 8.45 | 108.12 | 103.90 |
| 1 | A | 551 | A | C5-N7-C8 | 8.44 | 108.12 | 103.90 |
| 1 | A | 1287 | A | C5-N7-C8 | 8.44 | 108.12 | 103.90 |
| 1 | A | 140 | A | C5-N7-C8 | 8.44 | 108.12 | 103.90 |
| 1 | A | 1735 | A | C5-N7-C8 | 8.44 | 108.12 | 103.90 |
| 1 | A | 690 | A | C5-N7-C8 | 8.43 | 108.12 | 103.90 |
| 31 | W | 959 | A | C5-N7-C8 | 8.43 | 108.12 | 103.90 |
| 31 | W | 886 | A | C5-N7-C8 | 8.43 | 108.11 | 103.90 |
| 1 | A | 935 | A | C5-N7-C8 | 8.43 | 108.11 | 103.90 |
| 1 | A | 1115 | A | C5-N7-C8 | 8.43 | 108.11 | 103.90 |
| 1 | A | 2594 | A | C5-N7-C8 | 8.43 | 108.11 | 103.90 |
| 1 | A | 2100 | A | C5-N7-C8 | 8.43 | 108.11 | 103.90 |
| 1 | A | 52 | A | C5-N7-C8 | 8.42 | 108.11 | 103.90 |
| 1 | A | 835 | A | C5-N7-C8 | 8.42 | 108.11 | 103.90 |
| 1 | A | 1073 | A | C5-N7-C8 | 8.42 | 108.11 | 103.90 |
| 1 | A | 2673 | A | C5-N7-C8 | 8.41 | 108.11 | 103.90 |
| 31 | W | 364 | A | C5-N7-C8 | 8.41 | 108.11 | 103.90 |
| 31 | W | 1004 | A | C5-N7-C8 | 8.41 | 108.11 | 103.90 |
| 31 | W | 1147 | A | C5-N7-C8 | 8.41 | 108.11 | 103.90 |
| 1 | A | 418 | A | C5-N7-C8 | 8.41 | 108.10 | 103.90 |
| 1 | A | 1202 | A | C5-N7-C8 | 8.41 | 108.10 | 103.90 |
| 1 | A | 2807 | A | C5-N7-C8 | 8.41 | 108.10 | 103.90 |
| 31 | W | 923 | A | C5-N7-C8 | 8.41 | 108.10 | 103.90 |
| 1 | A | 353 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 1555 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 31 | W | 506 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 2369 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 518 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 1585 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 1918 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 1326 | A | C5-N7-C8 | 8.40 | 108.10 | 103.90 |
| 1 | A | 2417 | A | C5-N7-C8 | 8.39 | 108.10 | 103.90 |
| 31 | W | 456 | A | C5-N7-C8 | 8.39 | 108.10 | 103.90 |
| 31 | W | 475 | A | C5-N7-C8 | 8.39 | 108.10 | 103.90 |
| 31 | W | 1271 | A | C5-N7-C8 | 8.39 | 108.10 | 103.90 |
| 1 | A | 622 | A | C5-N7-C8 | 8.39 | 108.09 | 103.90 |
| 1 | A | 1686 | A | C5-N7-C8 | 8.39 | 108.09 | 103.90 |
| 1 | A | 2307 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 581 | A | C5-N7-C8 | 8.39 | 108.09 | 103.90 |
| 1 | A | 324 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |
| 1 | A | 2340 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |
| 31 | W | 1143 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |
| 31 | W | 266 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |
| 31 | W | 1178 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |
| 31 | W | 1488 | A | C5-N7-C8 | 8.38 | 108.09 | 103.90 |
| 1 | A | 2812 | A | C5-N7-C8 | 8.37 | 108.09 | 103.90 |
| 1 | A | 1813 | A | C5-N7-C8 | 8.37 | 108.08 | 103.90 |
| 1 | A | 2447 | A | C5-N7-C8 | 8.37 | 108.08 | 103.90 |
| 31 | W | 357 | A | C5-N7-C8 | 8.37 | 108.08 | 103.90 |
| 31 | W | 870 | A | C5-N7-C8 | 8.37 | 108.08 | 103.90 |
| 1 | A | 1210 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 204 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 1254 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 1313 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 824 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 947 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 1072 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 1553 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2464 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2694 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2700 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 1248 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 637 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2052 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2302 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 611 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 703 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2854 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 957 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 2317 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 2 | B | 17 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 31 | W | 1320 | A | C5-N7-C8 | 8.36 | 108.08 | 103.90 |
| 1 | A | 1685 | A | C5-N7-C8 | 8.35 | 108.08 | 103.90 |
| 1 | A | 278 | A | C5-N7-C8 | 8.35 | 108.08 | 103.90 |
| 1 | A | 125 | A | C5-N7-C8 | 8.35 | 108.07 | 103.90 |
| 31 | W | 251 | A | C5-N7-C8 | 8.35 | 108.07 | 103.90 |
| 31 | W | 440 | A | C5-N7-C8 | 8.35 | 108.07 | 103.90 |
| 31 | W | 496 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 1 | A | 345 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 2 | B | 27 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 2 | B | 97 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 31 | W | 460 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 31 | W | 1260 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 1 | A | 302 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 1 | A | 2390 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 1 | A | 530 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 31 | W | 1383 | A | C5-N7-C8 | 8.34 | 108.07 | 103.90 |
| 1 | A | 763 | A | C5-N7-C8 | 8.33 | 108.07 | 103.90 |
| 1 | A | 1593 | A | C5-N7-C8 | 8.33 | 108.07 | 103.90 |
| 1 | A | 2043 | A | C5-N7-C8 | 8.33 | 108.07 | 103.90 |
| 1 | A | 2477 | A | C5-N7-C8 | 8.33 | 108.07 | 103.90 |
| 31 | W | 1213 | A | C5-N7-C8 | 8.33 | 108.07 | 103.90 |
| 1 | A | 1445 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 1 | A | 1784 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 31 | W | 1493 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 51 | 1 | 58 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 1 | A | 71 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 1 | A | 194 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 1 | A | 2315 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 1 | A | 2750 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 31 | W | 234 | A | C5-N7-C8 | 8.33 | 108.06 | 103.90 |
| 1 | A | 1325 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 31 | W | 1266 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 31 | W | 422 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 229 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 991 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 1055 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 1745 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 1791 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 2683 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 2 | B | 76 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 553 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 821 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 1648 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 31 | W | 791 | A | C5-N7-C8 | 8.32 | 108.06 | 103.90 |
| 1 | A | 1302 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 1 | A | 1583 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 31 | W | 462 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 51 | 1 | 44 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 1 | A | 630 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 1 | A | 1224 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 1 | A | 1619 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1722 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 31 | W | 918 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 31 | W | 737 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 31 | W | 1442 | A | C5-N7-C8 | 8.31 | 108.06 | 103.90 |
| 1 | A | 1190 | A | C5-N7-C8 | 8.31 | 108.05 | 103.90 |
| 1 | A | 2846 | A | C5-N7-C8 | 8.31 | 108.05 | 103.90 |
| 1 | A | 2088 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 2668 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 31 | W | 1384 | A | C5-N7-C8 | 8.31 | 108.05 | 103.90 |
| 1 | A | 888 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 1516 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 31 | W | 287 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 31 | W | 452 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 31 | W | 1252 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 51 | 1 | 14 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 1161 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 2912 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 330 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 600 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 667 | A | C5-N7-C8 | 8.30 | 108.05 | 103.90 |
| 1 | A | 1174 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 1423 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 2276 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 31 | W | 159 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 31 | W | 500 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 31 | W | 803 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 31 | W | 1197 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 753 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 1346 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 2383 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 31 | W | 786 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 1233 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 475 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 1 | A | 2606 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 31 | W | 282 | A | C5-N7-C8 | 8.29 | 108.05 | 103.90 |
| 1 | A | 1243 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 1 | A | 1797 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 1 | A | 2658 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 31 | W | 128 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 31 | W | 397 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |
| 31 | W | 254 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 31 | W | 1513 | A | C5-N7-C8 | 8.29 | 108.04 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 206 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 1046 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 31 | W | 1205 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 31 | W | 1133 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 31 | W | 1422 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 236 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 677 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 752 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 987 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 1036 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 1375 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 1654 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 2835 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 31 | W | 669 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 31 | W | 725 | A | C5-N7-C8 | 8.28 | 108.04 | 103.90 |
| 1 | A | 275 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 1 | A | 2542 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 31 | W | 1349 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 1 | A | 770 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 1 | A | 2459 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 31 | W | 544 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 31 | W | 658 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 31 | W | 956 | A | C5-N7-C8 | 8.27 | 108.04 | 103.90 |
| 51 | y | 41 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 244 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 273 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 1189 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 31 | W | 321 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 31 | W | 978 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 31 | W | 1503 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 44 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 715 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 1663 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 2500 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 31 | W | 1359 | A | C5-N7-C8 | 8.27 | 108.03 | 103.90 |
| 1 | A | 993 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 31 | W | 684 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 225 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 1260 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 31 | W | 522 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 31 | W | 811 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 2032 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 225 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 31 | W | 1111 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 10 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 31 | W | 582 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 51 | y | 14 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 364 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 2830 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 2902 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 31 | W | 1225 | A | C5-N7-C8 | 8.26 | 108.03 | 103.90 |
| 1 | A | 355 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 1335 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 1608 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 2303 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 31 | W | 53 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 193 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 2834 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 31 | W | 776 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 31 | W | 801 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 31 | W | 1333 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 1157 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 31 | W | 281 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 31 | W | 1369 | A | C5-N7-C8 | 8.25 | 108.03 | 103.90 |
| 1 | A | 829 | A | C5-N7-C8 | 8.25 | 108.02 | 103.90 |
| 1 | A | 2330 | A | C5-N7-C8 | 8.25 | 108.02 | 103.90 |
| 31 | W | 240 | A | C5-N7-C8 | 8.25 | 108.02 | 103.90 |
| 31 | W | 630 | A | C5-N7-C8 | 8.25 | 108.02 | 103.90 |
| 31 | W | 816 | A | C5-N7-C8 | 8.25 | 108.02 | 103.90 |
| 31 | W | 170 | A | C5-N7-C8 | 8.25 | 108.02 | 103.90 |
| 1 | A | 1175 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 1286 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 31 | W | 651 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 31 | W | 1176 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 31 | W | 1437 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 1672 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 717 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 1034 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 1393 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 31 | W | 1024 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 1312 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 2026 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 31 | W | 704 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 28 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 727 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 51 | y | 21 | A | C5-N7-C8 | 8.24 | 108.02 | 103.90 |
| 1 | A | 1061 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 2777 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 2 | B | 102 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 31 | W | 139 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 31 | W | 569 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 31 | W | 659 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 31 | W | 985 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 325 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 947 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 1308 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 2462 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 2876 | A | C5-N7-C8 | 8.23 | 108.02 | 103.90 |
| 1 | A | 154 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 1 | A | 1066 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 31 | W | 210 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 31 | W | 1028 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 31 | W | 1128 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 31 | W | 1257 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 31 | W | 1296 | A | C5-N7-C8 | 8.23 | 108.01 | 103.90 |
| 1 | A | 500 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1134 | A | N3-C4-N9 | 8.22 | 133.98 | 127.40 |
| 1 | A | 1314 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 271 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 1254 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 1207 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 762 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 999 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1424 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 762 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 2845 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 556 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 1466 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 102 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 513 | A | C4-C5-C6 | 8.22 | 121.11 | 117.00 |
| 1 | A | 689 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1008 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1532 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1638 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1945 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 2 | B | 43 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 1425 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 2042 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 31 | W | 329 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 1540 | A | C5-N7-C8 | 8.22 | 108.01 | 103.90 |
| 1 | A | 219 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 1580 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 1631 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 1778 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 31 | W | 1121 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 51 | 1 | 70 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 337 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 470 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 2338 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 31 | W | 592 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 38 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 1636 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 2511 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 2629 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 1 | A | 2819 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 31 | W | 477 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 31 | W | 1160 | A | C5-N7-C8 | 8.21 | 108.01 | 103.90 |
| 31 | W | 529 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 1284 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 198 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 1699 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 31 | W | 1502 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 161 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 231 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 618 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 31 | W | 1348 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 1 | A | 1347 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 799 | A | C5-N7-C8 | 8.21 | 108.00 | 103.90 |
| 31 | W | 862 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 1185 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 1523 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 412 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 882 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 419 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 1541 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 13 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 740 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 2087 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2297 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 1479 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 84 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 354 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 867 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 1144 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 2398 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 2 | B | 39 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 189 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 672 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 1103 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 31 | W | 1490 | A | C5-N7-C8 | 8.20 | 108.00 | 103.90 |
| 1 | A | 322 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 1831 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 2362 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 2463 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 31 | W | 361 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 329 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 578 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 179 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 575 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 705 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 746 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 1 | A | 1025 | A | C5-N7-C8 | 8.19 | 108.00 | 103.90 |
| 31 | W | 203 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 456 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 646 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 851 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 31 | W | 423 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 31 | W | 1298 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 1709 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 31 | W | 202 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 31 | W | 389 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 31 | W | 1006 | A | C5-N7-C8 | 8.19 | 107.99 | 103.90 |
| 1 | A | 388 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 549 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1269 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1700 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 31 | W | 1092 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 31 | W | 1528 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1914 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 2547 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 769 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 31 | W | 568 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 786 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1473 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1627 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1818 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1948 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 2860 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 2924 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 2 | B | 37 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 51 | y | 44 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 652 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 661 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1132 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1483 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1788 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 1838 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 2381 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 2590 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 31 | W | 61 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 31 | W | 919 | A | C5-N7-C8 | 8.18 | 107.99 | 103.90 |
| 1 | A | 469 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 574 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 2262 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 559 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 2804 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 31 | W | 55 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 31 | W | 512 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 486 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 1141 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 1 | A | 1746 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 1 | A | 2111 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 31 | W | 925 | A | C5-N7-C8 | 8.17 | 107.99 | 103.90 |
| 1 | A | 2790 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 31 | W | 1427 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 51 | 1 | 24 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 1 | A | 220 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 1 | A | 274 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 1 | A | 318 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 1 | A | 2560 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 31 | W | 12 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |
| 31 | W | 301 | A | C5-N7-C8 | 8.17 | 107.98 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 376 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 1727 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 1103 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 2505 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 1357 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 1802 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 382 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 828 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 1451 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 673 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 889 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 74 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 724 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 1776 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 107 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 2 | B | 114 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 1017 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 1386 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 1617 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 2570 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 1 | A | 2722 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 777 | A | C5-N7-C8 | 8.16 | 107.98 | 103.90 |
| 31 | W | 94 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 2 | B | 44 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 31 | W | 541 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 31 | W | 771 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 1 | A | 5 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 1 | A | 390 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 1 | A | 896 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 1 | A | 428 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 1 | A | 1406 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 1 | A | 1815 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 31 | W | 148 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 31 | W | 190 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 31 | W | 211 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 31 | W | 367 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 31 | W | 1284 | A | C5-N7-C8 | 8.15 | 107.98 | 103.90 |
| 1 | A | 1059 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 31 | W | 1115 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 1 | A | 216 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 1 | A | 868 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 1 | A | 974 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2827 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 31 | W | 1403 | A | C5-N7-C8 | 8.15 | 107.97 | 103.90 |
| 1 | A | 171 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 178 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 1419 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 1245 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 1464 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 1677 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 1443 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 1653 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 117 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 924 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 51 | 1 | 41 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 389 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 619 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 847 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 1679 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 2395 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 1126 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 31 | W | 278 | A | C5-N7-C8 | 8.14 | 107.97 | 103.90 |
| 1 | A | 12 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 893 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 1253 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 2007 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 436 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 1014 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 1592 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 2900 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 183 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 1956 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 31 | W | 674 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 31 | W | 945 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 178 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 1 | A | 876 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 965 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 1 | A | 1504 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 1534 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 1 | A | 1982 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 1 | A | 2663 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 31 | W | 405 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 1 | A | 2769 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 31 | W | 35 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 1056 | A | C5-N7-C8 | 8.13 | 107.97 | 103.90 |
| 31 | W | 1407 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 1 | A | 421 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 507 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1405 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1575 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1913 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 1405 | A | C5-N7-C8 | 8.13 | 107.96 | 103.90 |
| 1 | A | 2787 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 81 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 124 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 230 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1026 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 433 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 685 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 548 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1490 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 130 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 582 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1392 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 838 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 1247 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 31 | W | 1355 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 314 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 543 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 2356 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 910 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 1 | A | 1235 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 1723 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 1 | A | 2601 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 2 | B | 51 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 31 | W | 160 | A | C5-N7-C8 | 8.12 | 107.96 | 103.90 |
| 1 | A | 207 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 1 | A | 1230 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 1 | A | 2889 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 31 | W | 679 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 31 | W | 1050 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 1 | A | 1812 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 2893 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 31 | W | 504 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 604 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 31 | W | 883 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 996 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 31 | W | 1179 | A | C5-N7-C8 | 8.11 | 107.96 | 103.90 |
| 1 | A | 1277 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 34 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 781 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 1480 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 228 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 463 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 459 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 902 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 917 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 374 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 702 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 925 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 1194 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 1615 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 2 | B | 11 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 501 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 2298 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 823 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 928 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 31 | W | 1288 | A | C5-N7-C8 | 8.11 | 107.95 | 103.90 |
| 1 | A | 1434 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 94 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 117 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 2027 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 2059 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 279 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 831 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 14 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 479 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 978 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 1078 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 1197 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 2089 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 401 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 650 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 671 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 721 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 1090 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 51 | 1 | 21 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 765 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2793 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 922 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 31 | W | 1512 | A | C5-N7-C8 | 8.10 | 107.95 | 103.90 |
| 1 | A | 943 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 1 | A | 2686 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 31 | W | 899 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 31 | W | 1256 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 1 | A | 1360 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 31 | W | 1259 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 51 | y | 58 | A | C5-N7-C8 | 8.09 | 107.95 | 103.90 |
| 1 | A | 168 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 307 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 519 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 1562 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 1316 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 2526 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 2662 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 404 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 518 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 844 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 1077 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 736 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 1499 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 1618 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 1989 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 2 | B | 18 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 258 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 1327 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 1435 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 1967 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 2329 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 72 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 31 | W | 1048 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 51 | y | 9 | A | C5-N7-C8 | 8.09 | 107.94 | 103.90 |
| 1 | A | 326 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 429 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 970 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2047 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2106 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2365 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 1478 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2619 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2767 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 975 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 305 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2018 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 195 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2517 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 2754 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 879 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 1054 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 18 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 62 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 232 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 259 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 268 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 1 | A | 1695 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 837 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 236 | A | C5-N7-C8 | 8.08 | 107.94 | 103.90 |
| 31 | W | 371 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 1456 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 438 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 476 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 1116 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 649 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 664 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 51 | y | 70 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 638 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 547 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 1339 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 1877 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 1556 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 2034 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 2875 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 542 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 913 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 31 | W | 1210 | A | C5-N7-C8 | 8.07 | 107.94 | 103.90 |
| 1 | A | 431 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 1 | A | 1130 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 1 | A | 2402 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 1 | A | 2762 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 31 | W | 618 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 31 | W | 1200 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 31 | W | 1486 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2497 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 1 | A | 2719 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 31 | W | 1455 | A | C5-N7-C8 | 8.07 | 107.93 | 103.90 |
| 1 | A | 964 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 1096 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 2062 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 2844 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 335 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 730 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 796 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 1140 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 1542 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 2295 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 2904 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 617 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 1234 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 1509 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 1328 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 199 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 459 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 2643 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 308 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 31 | W | 968 | A | C5-N7-C8 | 8.06 | 107.93 | 103.90 |
| 1 | A | 67 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 258 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 828 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 1404 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 1947 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 31 | W | 352 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 1258 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 1957 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 31 | W | 1102 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 150 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 2734 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 342 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 2436 | A | C5-N7-C8 | 8.05 | 107.93 | 103.90 |
| 1 | A | 2869 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 1839 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 2794 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 61 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 200 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 224 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 738 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 31 | W | 910 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 31 | W | 1308 | A | C5-N7-C8 | 8.05 | 107.92 | 103.90 |
| 1 | A | 1029 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 2270 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 67 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 1031 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 1981 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 49 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 333 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 537 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 1054 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 76 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 296 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 1529 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 139 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 343 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 1149 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 1520 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 2 | B | 71 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 2387 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 129 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 390 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 696 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 715 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 1760 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 270 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 31 | W | 757 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 51 | y | 23 | A | C5-N7-C8 | 8.04 | 107.92 | 103.90 |
| 1 | A | 373 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1999 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 185 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 894 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 2000 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1020 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1092 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1119 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1305 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1536 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1848 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 144 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 477 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 561 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 678 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1179 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 1888 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 2507 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 31 | W | 1341 | A | C5-N7-C8 | 8.03 | 107.92 | 103.90 |
| 1 | A | 1734 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 1906 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 1942 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 2316 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 2862 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 31 | W | 616 | A | C5-N7-C8 | 8.03 | 107.91 | 103.90 |
| 1 | A | 202 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 490 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 1477 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 2421 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 31 | W | 438 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 623 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 699 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 1100 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 2343 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 31 | W | 208 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 384 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 1123 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 369 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 1027 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 1724 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 1965 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 2407 | A | C5-N7-C8 | 8.02 | 107.91 | 103.90 |
| 1 | A | 173 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 1266 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 1569 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 1941 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 2066 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 2440 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 31 | W | 1112 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 31 | W | 1289 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 592 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 870 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 31 | W | 929 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 1221 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 1506 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 118 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 31 | W | 161 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 31 | W | 1014 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 31 | W | 1236 | A | C5-N7-C8 | 8.01 | 107.91 | 103.90 |
| 1 | A | 1222 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 31 | W | 1417 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 1201 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 1517 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 1743 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 2593 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 2661 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 31 | W | 415 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 2810 | A | C5-N7-C8 | 8.01 | 107.90 | 103.90 |
| 1 | A | 126 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 260 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 908 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 1845 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 2826 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 31 | W | 1206 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 952 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 1417 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 1885 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 2 | B | 25 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 2 | B | 105 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 31 | W | 1026 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 108 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 333 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 31 | W | 120 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 31 | W | 142 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 1426 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 1858 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 2375 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 2455 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 2461 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 31 | W | 705 | A | C5-N7-C8 | 8.00 | 107.90 | 103.90 |
| 1 | A | 1680 | A | C5-N7-C8 | 7.99 | 107.90 | 103.90 |
| 2 | B | 55 | A | C5-N7-C8 | 7.99 | 107.90 | 103.90 |
| 31 | W | 1463 | A | C5-N7-C8 | 7.99 | 107.90 | 103.90 |
| 1 | A | 525 | A | C5-N7-C8 | 7.99 | 107.90 | 103.90 |
| 1 | A | 593 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 1 | A | 2482 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 51 | 1 | 76 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 653 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 1 | A | 1588 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 1 | A | 2006 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 31 | W | 974 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 1 | A | 1768 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 2 | B | 56 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 31 | W | 677 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 31 | W | 555 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 31 | W | 1270 | A | C5-N7-C8 | 7.99 | 107.89 | 103.90 |
| 1 | A | 339 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 758 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 1323 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 1388 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 31 | W | 1120 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 31 | W | 306 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 51 | y | 24 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 41 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 162 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 517 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 51 | 1 | 9 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 31 | W | 1315 | A | C5-N7-C8 | 7.98 | 107.89 | 103.90 |
| 1 | A | 917 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 1456 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 2357 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 31 | W | 711 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 1832 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 1925 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 2851 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 31 | W | 381 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 65 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 1 | A | 808 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 1533 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 1 | A | 1844 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 1995 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 31 | W | 52 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 31 | W | 372 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 31 | W | 386 | A | C5-N7-C8 | 7.97 | 107.89 | 103.90 |
| 1 | A | 1442 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 1 | A | 2479 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 1 | A | 1005 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 31 | W | 209 | A | C5-N7-C8 | 7.97 | 107.88 | 103.90 |
| 1 | A | 1075 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 987 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 437 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 31 | W | 1470 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 2078 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 2 | B | 64 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 31 | W | 758 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 2 | B | 50 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 6 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 1929 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 2406 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 31 | W | 314 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 254 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 723 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 2071 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 2480 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 2779 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 31 | W | 1180 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 2441 | A | C5-N7-C8 | 7.96 | 107.88 | 103.90 |
| 1 | A | 1021 | A | C5-N7-C8 | 7.95 | 107.88 | 103.90 |
| 2 | B | 113 | A | C5-N7-C8 | 7.95 | 107.88 | 103.90 |
| 31 | W | 323 | A | C5-N7-C8 | 7.95 | 107.88 | 103.90 |
| 31 | W | 485 | A | C5-N7-C8 | 7.95 | 107.88 | 103.90 |
| 1 | A | 156 | A | C5-N7-C8 | 7.95 | 107.88 | 103.90 |
| 1 | A | 2532 | A | C5-N7-C8 | 7.95 | 107.88 | 103.90 |
| 31 | W | 474 | A | C5-N7-C8 | 7.95 | 107.87 | 103.90 |
| 1 | A | 1074 | A | C5-N7-C8 | 7.95 | 107.87 | 103.90 |
| 31 | W | 572 | A | C5-N7-C8 | 7.95 | 107.87 | 103.90 |
| 1 | A | 407 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 1541 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 2030 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 524 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 2405 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 31 | W | 775 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 31 | W | 984 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 2831 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 811 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 849 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 2708 | A | C5-N7-C8 | 7.94 | 107.87 | 103.90 |
| 1 | A | 64 | A | C5-N7-C8 | 7.93 | 107.87 | 103.90 |
| 1 | A | 504 | A | C5-N7-C8 | 7.93 | 107.87 | 103.90 |
| 1 | A | 1042 | A | C5-N7-C8 | 7.93 | 107.87 | 103.90 |
| 1 | A | 1721 | A | C5-N7-C8 | 7.93 | 107.87 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 793 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 1 | A | 1614 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 1 | A | 1966 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 31 | W | 28 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 1 | A | 948 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 31 | W | 979 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 1 | A | 91 | A | C5-N7-C8 | 7.93 | 107.86 | 103.90 |
| 1 | A | 782 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 1900 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2595 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 346 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 631 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2339 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2887 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 1155 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 1901 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2358 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 173 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 971 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 1283 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 1342 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2908 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 150 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2919 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 31 | W | 391 | A | C5-N7-C8 | 7.92 | 107.86 | 103.90 |
| 1 | A | 2389 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 1 | A | 2571 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 1 | A | 2740 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 31 | W | 882 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 1 | A | 683 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 1 | A | 1432 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 1 | A | 1905 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 1 | A | 913 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 2 | B | 20 | A | C5-N7-C8 | 7.91 | 107.86 | 103.90 |
| 31 | W | 1297 | A | C5-N7-C8 | 7.91 | 107.85 | 103.90 |
| 1 | A | 247 | A | C5-N7-C8 | 7.91 | 107.85 | 103.90 |
| 1 | A | 222 | A | C5-N7-C8 | 7.91 | 107.85 | 103.90 |
| 1 | A | 1713 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 1142 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 1265 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 391 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 1485 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1876 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 560 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 1291 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 1883 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 31 | W | 140 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 31 | W | 583 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 31 | W | 1261 | A | C5-N7-C8 | 7.90 | 107.85 | 103.90 |
| 1 | A | 2327 | A | C5-N7-C8 | 7.89 | 107.85 | 103.90 |
| 1 | A | 2735 | A | C5-N7-C8 | 7.89 | 107.85 | 103.90 |
| 31 | W | 337 | A | C5-N7-C8 | 7.89 | 107.85 | 103.90 |
| 31 | W | 1026 | A | C4-C5-C6 | 7.89 | 120.94 | 117.00 |
| 1 | A | 73 | A | C5-N7-C8 | 7.89 | 107.84 | 103.90 |
| 31 | W | 644 | A | C5-N7-C8 | 7.89 | 107.84 | 103.90 |
| 1 | A | 133 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 1465 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 2080 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 226 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 1675 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 448 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 1620 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 2 | B | 13 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 31 | W | 948 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 1 | A | 658 | A | C5-N7-C8 | 7.88 | 107.84 | 103.90 |
| 31 | W | 1161 | A | C5-N7-C8 | 7.87 | 107.84 | 103.90 |
| 1 | A | 1453 | A | C5-N7-C8 | 7.87 | 107.84 | 103.90 |
| 31 | W | 1022 | A | C5-N7-C8 | 7.87 | 107.84 | 103.90 |
| 1 | A | 1710 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 1 | A | 2898 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 31 | W | 1517 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 1 | A | 1882 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 1 | A | 1131 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 1 | A | 2044 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 31 | W | 605 | A | C5-N7-C8 | 7.87 | 107.83 | 103.90 |
| 1 | A | 176 | A | C5-N7-C8 | 7.86 | 107.83 | 103.90 |
| 1 | A | 1714 | A | C5-N7-C8 | 7.86 | 107.83 | 103.90 |
| 31 | W | 875 | A | C5-N7-C8 | 7.86 | 107.83 | 103.90 |
| 1 | A | 2498 | A | C5-N7-C8 | 7.86 | 107.83 | 103.90 |
| 1 | A | 692 | A | C5-N7-C8 | 7.86 | 107.83 | 103.90 |
| 2 | B | 46 | A | C5-N7-C8 | 7.86 | 107.83 | 103.90 |
| 1 | A | 956 | A | C5-N7-C8 | 7.85 | 107.83 | 103.90 |
| 31 | W | 1272 | A | C5-N7-C8 | 7.85 | 107.83 | 103.90 |
| 1 | A | 1421 | A | C5-N7-C8 | 7.85 | 107.83 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2091 | A | C5-N7-C8 | 7.85 | 107.83 | 103.90 |
| 31 | W | 290 | A | C5-N7-C8 | 7.85 | 107.83 | 103.90 |
| 31 | W | 724 | A | C5-N7-C8 | 7.85 | 107.82 | 103.90 |
| 1 | A | 1697 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 31 | W | 825 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 31 | W | 743 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 1 | A | 1667 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 1 | A | 265 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 31 | W | 874 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 1 | A | 904 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 31 | W | 171 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 31 | W | 548 | A | C5-N7-C8 | 7.84 | 107.82 | 103.90 |
| 1 | A | 2060 | A | C5-N7-C8 | 7.83 | 107.82 | 103.90 |
| 1 | A | 1003 | A | C5-N7-C8 | 7.83 | 107.82 | 103.90 |
| 1 | A | 1056 | A | C5-N7-C8 | 7.83 | 107.81 | 103.90 |
| 1 | A | 1850 | A | C5-N7-C8 | 7.83 | 107.82 | 103.90 |
| 1 | A | 2454 | A | C5-N7-C8 | 7.83 | 107.81 | 103.90 |
| 1 | A | 1381 | A | C5-N7-C8 | 7.83 | 107.81 | 103.90 |
| 31 | W | 344 | A | C5-N7-C8 | 7.83 | 107.81 | 103.90 |
| 1 | A | 2616 | A | C5-N7-C8 | 7.83 | 107.81 | 103.90 |
| 1 | A | 1113 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 1 | A | 2468 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 31 | W | 969 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 31 | W | 1189 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 1 | A | 790 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 31 | W | 1188 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 1 | A | 1928 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 1 | A | 2691 | A | C5-N7-C8 | 7.82 | 107.81 | 103.90 |
| 31 | W | 911 | A | C5-N7-C8 | 7.81 | 107.81 | 103.90 |
| 1 | A | 1767 | A | C5-N7-C8 | 7.81 | 107.80 | 103.90 |
| 1 | A | 616 | A | C5-N7-C8 | 7.80 | 107.80 | 103.90 |
| 1 | A | 2349 | A | C5-N7-C8 | 7.80 | 107.80 | 103.90 |
| 31 | W | 993 | A | C5-N7-C8 | 7.80 | 107.80 | 103.90 |
| 1 | A | 1606 | A | C5-N7-C8 | 7.80 | 107.80 | 103.90 |
| 1 | A | 659 | A | C5-N7-C8 | 7.80 | 107.80 | 103.90 |
| 1 | A | 1006 | A | C5-N7-C8 | 7.79 | 107.80 | 103.90 |
| 1 | A | 774 | A | C5-N7-C8 | 7.79 | 107.80 | 103.90 |
| 1 | A | 2885 | A | C5-N7-C8 | 7.79 | 107.80 | 103.90 |
| 31 | W | 727 | A | C5-N7-C8 | 7.79 | 107.79 | 103.90 |
| 1 | A | 210 | A | C5-N7-C8 | 7.78 | 107.79 | 103.90 |
| 1 | A | 1097 | A | C5-N7-C8 | 7.78 | 107.79 | 103.90 |
| 1 | A | 1930 | A | C5-N7-C8 | 7.78 | 107.79 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|------|-------------|----------|
| 1 | A | 21 | A | C5-N7-C8 | 7.78 | 107.79 | 103.90 |
| 1 | A | 2689 | A | C5-N7-C8 | 7.78 | 107.79 | 103.90 |
| 1 | A | 1173 | A | C5'-C4'-O4' | 7.77 | 118.43 | 109.10 |
| 31 | W | 151 | A | C5-N7-C8 | 7.77 | 107.78 | 103.90 |
| 31 | W | 1238 | A | C5-N7-C8 | 7.77 | 107.78 | 103.90 |
| 51 | 1 | 23 | A | C5-N7-C8 | 7.77 | 107.78 | 103.90 |
| 1 | A | 647 | A | C5-N7-C8 | 7.76 | 107.78 | 103.90 |
| 31 | W | 457 | A | C5-N7-C8 | 7.76 | 107.78 | 103.90 |
| 31 | W | 1294 | A | C5-N7-C8 | 7.76 | 107.78 | 103.90 |
| 31 | W | 491 | A | C5-N7-C8 | 7.76 | 107.78 | 103.90 |
| 1 | A | 462 | A | C5-N7-C8 | 7.76 | 107.78 | 103.90 |
| 1 | A | 1581 | A | C5-N7-C8 | 7.75 | 107.78 | 103.90 |
| 31 | W | 519 | A | C5-N7-C8 | 7.75 | 107.77 | 103.90 |
| 31 | W | 1166 | A | C5-N7-C8 | 7.75 | 107.78 | 103.90 |
| 1 | A | 2627 | A | C5-N7-C8 | 7.75 | 107.77 | 103.90 |
| 1 | A | 513 | A | C5-N7-C8 | 7.75 | 107.77 | 103.90 |
| 1 | A | 1789 | A | C5-N7-C8 | 7.74 | 107.77 | 103.90 |
| 31 | W | 1278 | A | C5-N7-C8 | 7.74 | 107.77 | 103.90 |
| 1 | A | 2083 | A | C5-N7-C8 | 7.74 | 107.77 | 103.90 |
| 1 | A | 1601 | A | C5-N7-C8 | 7.73 | 107.77 | 103.90 |
| 1 | A | 1019 | A | C5-N7-C8 | 7.73 | 107.76 | 103.90 |
| 1 | A | 1244 | A | C5-N7-C8 | 7.73 | 107.76 | 103.90 |
| 1 | A | 2778 | A | C5-N7-C8 | 7.73 | 107.76 | 103.90 |
| 31 | W | 508 | A | C5-N7-C8 | 7.73 | 107.76 | 103.90 |
| 1 | A | 2704 | A | C5-N7-C8 | 7.72 | 107.76 | 103.90 |
| 1 | A | 53 | A | C5-N7-C8 | 7.72 | 107.76 | 103.90 |
| 1 | A | 1814 | A | C5-N7-C8 | 7.72 | 107.76 | 103.90 |
| 1 | A | 1816 | A | C5-N7-C8 | 7.71 | 107.76 | 103.90 |
| 1 | A | 2296 | A | C5-N7-C8 | 7.71 | 107.75 | 103.90 |
| 1 | A | 830 | A | C5-N7-C8 | 7.70 | 107.75 | 103.90 |
| 1 | A | 1691 | A | C5-N7-C8 | 7.70 | 107.75 | 103.90 |
| 1 | A | 496 | A | C5-N7-C8 | 7.69 | 107.75 | 103.90 |
| 31 | W | 1358 | A | C5-N7-C8 | 7.68 | 107.74 | 103.90 |
| 1 | A | 90 | A | C5-N7-C8 | 7.68 | 107.74 | 103.90 |
| 1 | A | 958 | A | C5-N7-C8 | 7.67 | 107.74 | 103.90 |
| 1 | A | 1579 | A | C5-N7-C8 | 7.67 | 107.74 | 103.90 |
| 1 | A | 2916 | A | C5-N7-C8 | 7.67 | 107.73 | 103.90 |
| 31 | W | 1366 | A | C5-N7-C8 | 7.67 | 107.74 | 103.90 |
| 1 | A | 1655 | A | C5-N7-C8 | 7.67 | 107.73 | 103.90 |
| 1 | A | 56 | A | C5-N7-C8 | 7.67 | 107.73 | 103.90 |
| 1 | A | 1361 | A | C5-N7-C8 | 7.66 | 107.73 | 103.90 |
| 1 | A | 95 | A | C5-N7-C8 | 7.66 | 107.73 | 103.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|------|-------------|----------|
| 1 | A | 2848 | A | C5-N7-C8 | 7.66 | 107.73 | 103.90 |
| 31 | W | 114 | A | C5-N7-C8 | 7.66 | 107.73 | 103.90 |
| 1 | A | 1774 | A | C5-N7-C8 | 7.65 | 107.73 | 103.90 |
| 1 | A | 1412 | A | C5-N7-C8 | 7.64 | 107.72 | 103.90 |
| 31 | W | 933 | A | C5-N7-C8 | 7.64 | 107.72 | 103.90 |
| 31 | W | 1016 | A | C5-N7-C8 | 7.64 | 107.72 | 103.90 |
| 31 | W | 99 | A | C5-N7-C8 | 7.63 | 107.72 | 103.90 |
| 1 | A | 1714 | A | N3-C4-N9 | 7.63 | 133.51 | 127.40 |
| 1 | A | 118 | A | C5-N7-C8 | 7.62 | 107.71 | 103.90 |
| 1 | A | 1820 | A | C5-N7-C8 | 7.62 | 107.71 | 103.90 |
| 1 | A | 656 | A | C5-N7-C8 | 7.61 | 107.71 | 103.90 |
| 1 | A | 1691 | A | N3-C4-N9 | 7.61 | 133.49 | 127.40 |
| 1 | A | 679 | A | C5-N7-C8 | 7.60 | 107.70 | 103.90 |
| 1 | A | 2627 | A | C4-C5-C6 | 7.60 | 120.80 | 117.00 |
| 1 | A | 1491 | A | C5-N7-C8 | 7.59 | 107.69 | 103.90 |
| 1 | A | 634 | A | C5-N7-C8 | 7.59 | 107.69 | 103.90 |
| 1 | A | 1398 | A | C5-N7-C8 | 7.58 | 107.69 | 103.90 |
| 1 | A | 1919 | A | C5-N7-C8 | 7.57 | 107.69 | 103.90 |
| 31 | W | 507 | A | C5-N7-C8 | 7.57 | 107.68 | 103.90 |
| 1 | A | 2786 | A | C5-N7-C8 | 7.56 | 107.68 | 103.90 |
| 1 | A | 1134 | A | C4-C5-C6 | 7.55 | 120.78 | 117.00 |
| 1 | A | 1006 | A | C4-C5-C6 | 7.53 | 120.76 | 117.00 |
| 1 | A | 2885 | A | C4-C5-C6 | 7.52 | 120.76 | 117.00 |
| 31 | W | 1308 | A | N3-C4-N9 | 7.51 | 133.41 | 127.40 |
| 31 | W | 405 | A | N3-C4-N9 | 7.50 | 133.40 | 127.40 |
| 1 | A | 366 | A | C4'-C3'-O3' | 7.49 | 127.98 | 113.00 |
| 31 | W | 713 | A | C5-N7-C8 | 7.48 | 107.64 | 103.90 |
| 1 | A | 1134 | A | C5-N7-C8 | 7.48 | 107.64 | 103.90 |
| 31 | W | 1278 | A | C4-C5-C6 | 7.46 | 120.73 | 117.00 |
| 1 | A | 935 | A | C4-C5-C6 | 7.45 | 120.73 | 117.00 |
| 1 | A | 226 | A | N3-C4-N9 | 7.43 | 133.35 | 127.40 |
| 1 | A | 478 | U | C2-N1-C1' | 7.43 | 126.61 | 117.70 |
| 1 | A | 1340 | A | C5-N7-C8 | 7.40 | 107.60 | 103.90 |
| 2 | B | 99 | A | N3-C4-N9 | 7.40 | 133.32 | 127.40 |
| 1 | A | 494 | A | C5-N7-C8 | 7.40 | 107.60 | 103.90 |
| 31 | W | 439 | A | C5-N7-C8 | 7.40 | 107.60 | 103.90 |
| 1 | A | 527 | A | C4-C5-C6 | 7.40 | 120.70 | 117.00 |
| 31 | W | 1167 | C | C2-N1-C1' | 7.37 | 126.91 | 118.80 |
| 1 | A | 1067 | A | C5-N7-C8 | 7.34 | 107.57 | 103.90 |
| 31 | W | 1372 | A | C5-N7-C8 | 7.33 | 107.57 | 103.90 |
| 1 | A | 2407 | A | C4-C5-C6 | 7.32 | 120.66 | 117.00 |
| 31 | W | 993 | A | N3-C4-N9 | 7.31 | 133.25 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|------|-------------|----------|
| 1 | A | 1188 | A | C5-N7-C8 | 7.30 | 107.55 | 103.90 |
| 1 | A | 1352 | U | C2-N1-C1' | 7.27 | 126.43 | 117.70 |
| 31 | W | 391 | A | C4-C5-C6 | 7.27 | 120.63 | 117.00 |
| 1 | A | 1433 | U | C2-N1-C1' | 7.25 | 126.40 | 117.70 |
| 1 | A | 1352 | U | N1-C2-O2 | 7.24 | 127.86 | 122.80 |
| 31 | W | 308 | A | C4-C5-C6 | 7.22 | 120.61 | 117.00 |
| 31 | W | 99 | A | N3-C4-N9 | 7.18 | 133.14 | 127.40 |
| 1 | A | 527 | A | N3-C4-N9 | 7.14 | 133.11 | 127.40 |
| 2 | B | 99 | A | C5-N7-C8 | 7.13 | 107.47 | 103.90 |
| 2 | B | 99 | A | C4-C5-C6 | 7.12 | 120.56 | 117.00 |
| 1 | A | 913 | A | N3-C4-N9 | 7.10 | 133.08 | 127.40 |
| 1 | A | 559 | A | C4-C5-C6 | 7.08 | 120.54 | 117.00 |
| 31 | W | 572 | A | N3-C4-N9 | 7.05 | 133.04 | 127.40 |
| 1 | A | 2691 | A | C4-C5-C6 | 7.04 | 120.52 | 117.00 |
| 1 | A | 2786 | A | N3-C4-N9 | 7.03 | 133.02 | 127.40 |
| 1 | A | 1581 | A | N3-C4-N9 | 7.01 | 133.01 | 127.40 |
| 31 | W | 405 | A | C4-C5-C6 | 7.00 | 120.50 | 117.00 |
| 31 | W | 993 | A | C4-C5-C6 | 7.00 | 120.50 | 117.00 |
| 1 | A | 679 | A | C4-C5-C6 | 6.98 | 120.49 | 117.00 |
| 1 | A | 254 | A | C4-C5-C6 | 6.97 | 120.49 | 117.00 |
| 31 | W | 507 | A | C5-C6-N1 | 6.97 | 121.19 | 117.70 |
| 1 | A | 732 | A | C5-N7-C8 | 6.96 | 107.38 | 103.90 |
| 1 | A | 513 | A | N3-C4-N9 | 6.96 | 132.97 | 127.40 |
| 1 | A | 52 | A | C4-C5-C6 | 6.95 | 120.48 | 117.00 |
| 31 | W | 1065 | A | C4-C5-C6 | 6.95 | 120.48 | 117.00 |
| 31 | W | 1234 | A | N3-C4-N9 | 6.94 | 132.95 | 127.40 |
| 1 | A | 551 | A | C4-C5-C6 | 6.94 | 120.47 | 117.00 |
| 1 | A | 478 | U | N1-C2-O2 | 6.92 | 127.64 | 122.80 |
| 1 | A | 1691 | A | C4-C5-C6 | 6.90 | 120.45 | 117.00 |
| 31 | W | 911 | A | C4-C5-C6 | 6.90 | 120.45 | 117.00 |
| 51 | y | 9 | A | C4-C5-C6 | 6.89 | 120.44 | 117.00 |
| 1 | A | 2786 | A | C4-C5-C6 | 6.88 | 120.44 | 117.00 |
| 31 | W | 572 | A | C4-C5-C6 | 6.88 | 120.44 | 117.00 |
| 1 | A | 2106 | A | C4-C5-C6 | 6.88 | 120.44 | 117.00 |
| 31 | W | 790 | A | C4-C5-C6 | 6.87 | 120.44 | 117.00 |
| 1 | A | 1094 | A | C4-C5-C6 | 6.87 | 120.43 | 117.00 |
| 1 | A | 168 | A | C4-C5-C6 | 6.85 | 120.42 | 117.00 |
| 1 | A | 1433 | U | N1-C2-O2 | 6.84 | 127.59 | 122.80 |
| 1 | A | 2627 | A | N3-C4-N9 | 6.83 | 132.86 | 127.40 |
| 1 | A | 1618 | A | C4-C5-C6 | 6.82 | 120.41 | 117.00 |
| 1 | A | 1839 | A | C4-C5-C6 | 6.82 | 120.41 | 117.00 |
| 1 | A | 935 | A | N3-C4-N9 | 6.81 | 132.85 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 1026 | A | N3-C4-N9 | 6.81 | 132.84 | 127.40 |
| 1 | A | 2735 | A | C4-C5-C6 | 6.80 | 120.40 | 117.00 |
| 31 | W | 1167 | C | N1-C2-O2 | 6.80 | 122.98 | 118.90 |
| 1 | A | 1714 | A | C4-C5-C6 | 6.79 | 120.39 | 117.00 |
| 31 | W | 1384 | A | C4-C5-C6 | 6.79 | 120.39 | 117.00 |
| 51 | 1 | 9 | A | C4-C5-C6 | 6.79 | 120.39 | 117.00 |
| 1 | A | 679 | A | N3-C4-N9 | 6.78 | 132.82 | 127.40 |
| 1 | A | 1667 | A | N3-C4-N9 | 6.76 | 132.81 | 127.40 |
| 31 | W | 1166 | A | N3-C4-N9 | 6.75 | 132.80 | 127.40 |
| 31 | W | 1288 | A | N3-C4-N9 | 6.75 | 132.80 | 127.40 |
| 1 | A | 56 | A | N3-C4-N9 | 6.75 | 132.80 | 127.40 |
| 1 | A | 108 | A | N3-C4-N9 | 6.74 | 132.79 | 127.40 |
| 31 | W | 1234 | A | C4-C5-C6 | 6.73 | 120.36 | 117.00 |
| 1 | A | 390 | A | N3-C4-N9 | 6.72 | 132.78 | 127.40 |
| 1 | A | 661 | A | C4-C5-C6 | 6.72 | 120.36 | 117.00 |
| 1 | A | 1638 | A | C4-C5-C6 | 6.72 | 120.36 | 117.00 |
| 1 | A | 2407 | A | N3-C4-N9 | 6.72 | 132.77 | 127.40 |
| 1 | A | 736 | A | N3-C4-N9 | 6.71 | 132.77 | 127.40 |
| 31 | W | 308 | A | N3-C4-N9 | 6.71 | 132.77 | 127.40 |
| 1 | A | 226 | A | C4-C5-C6 | 6.71 | 120.36 | 117.00 |
| 1 | A | 1883 | A | C4-C5-C6 | 6.71 | 120.35 | 117.00 |
| 1 | A | 2735 | A | N3-C4-N9 | 6.70 | 132.76 | 127.40 |
| 1 | A | 2395 | A | C4-C5-C6 | 6.69 | 120.35 | 117.00 |
| 1 | A | 526 | A | N9-C4-C5 | 6.69 | 108.48 | 105.80 |
| 1 | A | 1619 | A | C4-C5-C6 | 6.69 | 120.34 | 117.00 |
| 31 | W | 987 | A | C4-C5-C6 | 6.67 | 120.33 | 117.00 |
| 1 | A | 2459 | A | N3-C4-N9 | 6.67 | 132.73 | 127.40 |
| 31 | W | 933 | A | C4-C5-C6 | 6.66 | 120.33 | 117.00 |
| 31 | W | 987 | A | N3-C4-N9 | 6.66 | 132.73 | 127.40 |
| 1 | A | 1667 | A | C4-C5-C6 | 6.66 | 120.33 | 117.00 |
| 1 | A | 390 | A | C4-C5-C6 | 6.66 | 120.33 | 117.00 |
| 31 | W | 1427 | A | C4-C5-C6 | 6.66 | 120.33 | 117.00 |
| 31 | W | 1166 | A | C4-C5-C6 | 6.65 | 120.33 | 117.00 |
| 31 | W | 1315 | A | C4-C5-C6 | 6.65 | 120.32 | 117.00 |
| 1 | A | 108 | A | C4-C5-C6 | 6.64 | 120.32 | 117.00 |
| 1 | A | 1778 | A | N3-C4-N9 | 6.64 | 132.72 | 127.40 |
| 1 | A | 2885 | A | N3-C4-N9 | 6.64 | 132.71 | 127.40 |
| 31 | W | 57 | A | C4-C5-C6 | 6.64 | 120.32 | 117.00 |
| 1 | A | 593 | A | N3-C4-N9 | 6.63 | 132.71 | 127.40 |
| 31 | W | 195 | A | N3-C4-N9 | 6.63 | 132.71 | 127.40 |
| 31 | W | 391 | A | N3-C4-N9 | 6.63 | 132.71 | 127.40 |
| 31 | W | 99 | A | C4-C5-C6 | 6.63 | 120.31 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 518 | A | C4-C5-C6 | 6.63 | 120.31 | 117.00 |
| 1 | A | 673 | A | C4-C5-C6 | 6.63 | 120.31 | 117.00 |
| 1 | A | 1006 | A | N3-C4-N9 | 6.62 | 132.70 | 127.40 |
| 1 | A | 538 | A | C4-C5-C6 | 6.62 | 120.31 | 117.00 |
| 1 | A | 1442 | A | N3-C4-N9 | 6.62 | 132.69 | 127.40 |
| 1 | A | 910 | A | C4-C5-C6 | 6.61 | 120.31 | 117.00 |
| 1 | A | 1816 | A | N3-C4-N9 | 6.61 | 132.69 | 127.40 |
| 31 | W | 727 | A | N3-C4-N9 | 6.61 | 132.68 | 127.40 |
| 1 | A | 2459 | A | C4-C5-C6 | 6.60 | 120.30 | 117.00 |
| 31 | W | 1308 | A | C4-C5-C6 | 6.60 | 120.30 | 117.00 |
| 1 | A | 948 | A | N3-C4-N9 | 6.60 | 132.68 | 127.40 |
| 1 | A | 2111 | A | N3-C4-N9 | 6.60 | 132.68 | 127.40 |
| 31 | W | 337 | A | C4-C5-C6 | 6.60 | 120.30 | 117.00 |
| 1 | A | 254 | A | N3-C4-N9 | 6.59 | 132.68 | 127.40 |
| 1 | A | 1831 | A | C4-C5-C6 | 6.59 | 120.30 | 117.00 |
| 31 | W | 1478 | A | C4-C5-C6 | 6.59 | 120.30 | 117.00 |
| 31 | W | 1288 | A | C4-C5-C6 | 6.59 | 120.29 | 117.00 |
| 31 | W | 1442 | A | C4-C5-C6 | 6.59 | 120.30 | 117.00 |
| 1 | A | 2402 | A | C4-C5-C6 | 6.59 | 120.29 | 117.00 |
| 1 | A | 95 | A | C4-C5-C6 | 6.58 | 120.29 | 117.00 |
| 1 | A | 774 | A | C8-N9-C4 | 6.58 | 108.43 | 105.80 |
| 1 | A | 910 | A | N3-C4-N9 | 6.58 | 132.66 | 127.40 |
| 1 | A | 974 | A | C4-C5-C6 | 6.57 | 120.28 | 117.00 |
| 1 | A | 1398 | A | N3-C4-N9 | 6.57 | 132.66 | 127.40 |
| 1 | A | 2844 | A | C4-C5-C6 | 6.57 | 120.28 | 117.00 |
| 1 | A | 1858 | A | C4-C5-C6 | 6.57 | 120.28 | 117.00 |
| 1 | A | 1491 | A | N3-C4-N9 | 6.56 | 132.65 | 127.40 |
| 31 | W | 508 | A | N9-C4-C5 | 6.56 | 108.42 | 105.80 |
| 1 | A | 258 | A | C4-C5-C6 | 6.56 | 120.28 | 117.00 |
| 1 | A | 948 | A | C4-C5-C6 | 6.56 | 120.28 | 117.00 |
| 1 | A | 1485 | A | C4-C5-C6 | 6.56 | 120.28 | 117.00 |
| 1 | A | 1352 | U | N3-C2-O2 | -6.55 | 117.61 | 122.20 |
| 2 | B | 97 | A | C4-C5-C6 | 6.55 | 120.28 | 117.00 |
| 1 | A | 1103 | A | N3-C4-N9 | 6.54 | 132.63 | 127.40 |
| 1 | A | 2862 | A | N3-C4-N9 | 6.54 | 132.63 | 127.40 |
| 31 | W | 507 | A | N3-C4-N9 | 6.54 | 132.63 | 127.40 |
| 1 | A | 437 | A | N3-C4-N9 | 6.54 | 132.63 | 127.40 |
| 31 | W | 705 | A | C4-C5-C6 | 6.54 | 120.27 | 117.00 |
| 1 | A | 2691 | A | N3-C4-N9 | 6.54 | 132.63 | 127.40 |
| 31 | W | 397 | A | N3-C4-N9 | 6.53 | 132.62 | 127.40 |
| 1 | A | 1075 | A | C4-C5-C6 | 6.53 | 120.27 | 117.00 |
| 1 | A | 1392 | A | C4-C5-C6 | 6.53 | 120.27 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|-------|-------------|----------|
| 1 | A | 2043 | A | C4-C5-C6 | 6.53 | 120.26 | 117.00 |
| 31 | W | 114 | A | C4-C5-C6 | 6.53 | 120.26 | 117.00 |
| 31 | W | 1341 | A | N3-C4-N9 | 6.53 | 132.62 | 127.40 |
| 1 | A | 1638 | A | N3-C4-N9 | 6.52 | 132.61 | 127.40 |
| 1 | A | 1709 | A | C4-C5-C6 | 6.51 | 120.25 | 117.00 |
| 1 | A | 2862 | A | C4-C5-C6 | 6.51 | 120.25 | 117.00 |
| 31 | W | 76 | A | C4-C5-C6 | 6.50 | 120.25 | 117.00 |
| 1 | A | 913 | A | C4-C5-C6 | 6.50 | 120.25 | 117.00 |
| 1 | A | 1618 | A | N3-C4-N9 | 6.50 | 132.60 | 127.40 |
| 1 | A | 1258 | A | C4-C5-C6 | 6.50 | 120.25 | 117.00 |
| 2 | B | 13 | A | C4-C5-C6 | 6.50 | 120.25 | 117.00 |
| 31 | W | 649 | A | N3-C4-N9 | 6.50 | 132.60 | 127.40 |
| 1 | A | 736 | A | C4-C5-C6 | 6.50 | 120.25 | 117.00 |
| 1 | A | 1360 | A | N3-C4-N9 | 6.49 | 132.59 | 127.40 |
| 31 | W | 128 | A | N3-C4-N9 | 6.49 | 132.59 | 127.40 |
| 1 | A | 722 | A | C4-C5-C6 | 6.49 | 120.24 | 117.00 |
| 1 | A | 1562 | A | C4-C5-C6 | 6.49 | 120.24 | 117.00 |
| 1 | A | 1562 | A | N3-C4-N9 | 6.49 | 132.59 | 127.40 |
| 1 | A | 964 | A | C4-C5-C6 | 6.48 | 120.24 | 117.00 |
| 51 | 1 | 9 | A | N3-C4-N9 | 6.48 | 132.59 | 127.40 |
| 51 | 1 | 24 | A | C4-C5-C6 | 6.48 | 120.24 | 117.00 |
| 1 | A | 866 | A | C4-C5-C6 | 6.47 | 120.24 | 117.00 |
| 1 | A | 1695 | A | C4-C5-C6 | 6.47 | 120.23 | 117.00 |
| 1 | A | 656 | A | C4-C5-C6 | 6.47 | 120.23 | 117.00 |
| 1 | A | 501 | A | C4-C5-N7 | -6.46 | 107.47 | 110.70 |
| 1 | A | 752 | A | C4-C5-C6 | 6.46 | 120.23 | 117.00 |
| 1 | A | 2339 | A | C4-C5-C6 | 6.46 | 120.23 | 117.00 |
| 1 | A | 2436 | A | N3-C4-N9 | 6.46 | 132.57 | 127.40 |
| 1 | A | 551 | A | N3-C4-N9 | 6.46 | 132.57 | 127.40 |
| 1 | A | 1536 | A | C4-C5-C6 | 6.46 | 120.23 | 117.00 |
| 1 | A | 478 | U | N3-C2-O2 | -6.46 | 117.68 | 122.20 |
| 1 | A | 2111 | A | C4-C5-C6 | 6.46 | 120.23 | 117.00 |
| 1 | A | 589 | G | P-O3'-C3' | 6.46 | 127.45 | 119.70 |
| 1 | A | 1653 | A | C4-C5-C6 | 6.46 | 120.23 | 117.00 |
| 1 | A | 1877 | A | C4-C5-C6 | 6.45 | 120.23 | 117.00 |
| 31 | W | 34 | A | C4-C5-C6 | 6.45 | 120.23 | 117.00 |
| 1 | A | 1820 | A | C4-C5-C6 | 6.45 | 120.22 | 117.00 |
| 1 | A | 2027 | A | C4-C5-C6 | 6.45 | 120.22 | 117.00 |
| 1 | A | 2844 | A | N3-C4-N9 | 6.45 | 132.56 | 127.40 |
| 1 | A | 1096 | A | C4-C5-C6 | 6.45 | 120.22 | 117.00 |
| 1 | A | 1222 | A | C4-C5-C6 | 6.45 | 120.22 | 117.00 |
| 1 | A | 1900 | A | C4-C5-C6 | 6.45 | 120.22 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|-------|-------------|----------|
| 31 | W | 790 | A | N3-C4-N9 | 6.45 | 132.56 | 127.40 |
| 1 | A | 1778 | A | C4-C5-C6 | 6.44 | 120.22 | 117.00 |
| 1 | A | 1999 | A | N3-C4-N9 | 6.44 | 132.55 | 127.40 |
| 1 | A | 559 | A | N3-C4-N9 | 6.44 | 132.55 | 127.40 |
| 31 | W | 397 | A | C4-C5-C6 | 6.44 | 120.22 | 117.00 |
| 1 | A | 1073 | A | N3-C4-N9 | 6.44 | 132.55 | 127.40 |
| 31 | W | 173 | A | C4-C5-C6 | 6.44 | 120.22 | 117.00 |
| 1 | A | 634 | A | N3-C4-N9 | 6.43 | 132.55 | 127.40 |
| 1 | A | 2694 | A | C4-C5-C6 | 6.43 | 120.22 | 117.00 |
| 1 | A | 456 | A | C4-C5-C6 | 6.43 | 120.22 | 117.00 |
| 1 | A | 1103 | A | C4-C5-C6 | 6.43 | 120.21 | 117.00 |
| 1 | A | 1901 | A | C4-C5-C6 | 6.43 | 120.21 | 117.00 |
| 1 | A | 2441 | A | C4-C5-C6 | 6.43 | 120.22 | 117.00 |
| 1 | A | 1485 | A | N3-C4-N9 | 6.43 | 132.54 | 127.40 |
| 1 | A | 1999 | A | C4-C5-C6 | 6.43 | 120.21 | 117.00 |
| 1 | A | 117 | A | C4-C5-C6 | 6.42 | 120.21 | 117.00 |
| 1 | A | 2402 | A | N3-C4-N9 | 6.42 | 132.54 | 127.40 |
| 31 | W | 811 | A | C4-C5-C6 | 6.42 | 120.21 | 117.00 |
| 1 | A | 2794 | A | N3-C4-N9 | 6.42 | 132.54 | 127.40 |
| 1 | A | 1073 | A | C4-C5-C6 | 6.42 | 120.21 | 117.00 |
| 1 | A | 168 | A | N3-C4-N9 | 6.42 | 132.53 | 127.40 |
| 2 | B | 11 | A | N3-C4-N9 | 6.42 | 132.54 | 127.40 |
| 2 | B | 13 | A | N3-C4-N9 | 6.42 | 132.53 | 127.40 |
| 31 | W | 1341 | A | C4-C5-C6 | 6.42 | 120.21 | 117.00 |
| 31 | W | 114 | A | N3-C4-N9 | 6.41 | 132.53 | 127.40 |
| 31 | W | 918 | A | C4-C5-C6 | 6.41 | 120.21 | 117.00 |
| 1 | A | 2329 | A | C4-C5-C6 | 6.41 | 120.21 | 117.00 |
| 1 | A | 590 | U | P-O5'-C5' | 6.41 | 131.16 | 120.90 |
| 31 | W | 844 | A | C4-C5-C6 | 6.41 | 120.20 | 117.00 |
| 31 | W | 933 | A | N3-C4-N9 | 6.41 | 132.53 | 127.40 |
| 1 | A | 275 | A | C4-C5-C6 | 6.40 | 120.20 | 117.00 |
| 1 | A | 690 | A | N3-C4-N9 | 6.40 | 132.52 | 127.40 |
| 1 | A | 38 | A | C4-C5-C6 | 6.40 | 120.20 | 117.00 |
| 1 | A | 1253 | A | C4-C5-C6 | 6.40 | 120.20 | 117.00 |
| 1 | A | 2805 | A | C4-C5-C6 | 6.40 | 120.20 | 117.00 |
| 1 | A | 1480 | A | N3-C4-N9 | 6.40 | 132.52 | 127.40 |
| 51 | y | 24 | A | N3-C4-N9 | 6.40 | 132.52 | 127.40 |
| 1 | A | 95 | A | N3-C4-N9 | 6.40 | 132.52 | 127.40 |
| 31 | W | 838 | A | N3-C4-N9 | 6.40 | 132.52 | 127.40 |
| 1 | A | 1816 | A | C4-C5-C6 | 6.39 | 120.20 | 117.00 |
| 1 | A | 1433 | U | N3-C2-O2 | -6.39 | 117.73 | 122.20 |
| 31 | W | 1493 | A | C4-C5-C6 | 6.39 | 120.20 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 882 | A | N3-C4-N9 | 6.39 | 132.51 | 127.40 |
| 1 | A | 1727 | A | C4-C5-C6 | 6.39 | 120.19 | 117.00 |
| 1 | A | 2919 | A | C4-C5-C6 | 6.39 | 120.19 | 117.00 |
| 1 | A | 526 | A | C4-C5-N7 | -6.38 | 107.51 | 110.70 |
| 1 | A | 2339 | A | N3-C4-N9 | 6.38 | 132.51 | 127.40 |
| 31 | W | 337 | A | N3-C4-N9 | 6.38 | 132.51 | 127.40 |
| 1 | A | 1839 | A | N3-C4-N9 | 6.38 | 132.50 | 127.40 |
| 31 | W | 1272 | A | C4-C5-C6 | 6.38 | 120.19 | 117.00 |
| 1 | A | 1361 | A | C4-C5-C6 | 6.38 | 120.19 | 117.00 |
| 1 | A | 689 | A | N3-C4-N9 | 6.38 | 132.50 | 127.40 |
| 1 | A | 866 | A | N3-C4-N9 | 6.38 | 132.50 | 127.40 |
| 1 | A | 2343 | A | C4-C5-C6 | 6.38 | 120.19 | 117.00 |
| 2 | B | 46 | A | C4-C5-C6 | 6.38 | 120.19 | 117.00 |
| 1 | A | 538 | A | N3-C4-N9 | 6.38 | 132.50 | 127.40 |
| 2 | B | 46 | A | N3-C4-N9 | 6.38 | 132.50 | 127.40 |
| 31 | W | 1297 | A | C4-C5-C6 | 6.38 | 120.19 | 117.00 |
| 1 | A | 265 | A | C4-C5-C6 | 6.37 | 120.19 | 117.00 |
| 1 | A | 1222 | A | N3-C4-N9 | 6.37 | 132.50 | 127.40 |
| 1 | A | 2689 | A | N3-C4-N9 | 6.37 | 132.50 | 127.40 |
| 1 | A | 673 | A | N3-C4-N9 | 6.37 | 132.50 | 127.40 |
| 1 | A | 678 | A | C4-C5-C6 | 6.37 | 120.19 | 117.00 |
| 31 | W | 844 | A | N3-C4-N9 | 6.37 | 132.50 | 127.40 |
| 1 | A | 1556 | A | C4-C5-C6 | 6.37 | 120.19 | 117.00 |
| 1 | A | 715 | A | N3-C4-N9 | 6.37 | 132.50 | 127.40 |
| 1 | A | 517 | A | C4-C5-C6 | 6.37 | 120.18 | 117.00 |
| 1 | A | 732 | A | N3-C4-N9 | 6.37 | 132.49 | 127.40 |
| 1 | A | 130 | A | C4-C5-C6 | 6.36 | 120.18 | 117.00 |
| 31 | W | 1143 | A | N3-C4-N9 | 6.36 | 132.49 | 127.40 |
| 1 | A | 376 | A | C4-C5-C6 | 6.36 | 120.18 | 117.00 |
| 1 | A | 1820 | A | N3-C4-N9 | 6.36 | 132.49 | 127.40 |
| 1 | A | 2532 | A | C4-C5-C6 | 6.36 | 120.18 | 117.00 |
| 1 | A | 1620 | A | C4-C5-C6 | 6.36 | 120.18 | 117.00 |
| 51 | 1 | 24 | A | N3-C4-N9 | 6.36 | 132.48 | 127.40 |
| 31 | W | 1133 | A | N9-C4-C5 | 6.35 | 108.34 | 105.80 |
| 1 | A | 1360 | A | C4-C5-C6 | 6.35 | 120.18 | 117.00 |
| 31 | W | 674 | A | N9-C4-C5 | 6.35 | 108.34 | 105.80 |
| 1 | A | 259 | A | C4-C5-C6 | 6.35 | 120.17 | 117.00 |
| 31 | W | 838 | A | C4-C5-C6 | 6.35 | 120.17 | 117.00 |
| 1 | A | 1581 | A | C4-C5-C6 | 6.35 | 120.17 | 117.00 |
| 31 | W | 1294 | A | C4-C5-C6 | 6.35 | 120.17 | 117.00 |
| 1 | A | 634 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 1 | A | 715 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1094 | A | N3-C4-N9 | 6.34 | 132.48 | 127.40 |
| 1 | A | 1442 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 1 | A | 2043 | A | N3-C4-N9 | 6.34 | 132.47 | 127.40 |
| 1 | A | 2571 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 1 | A | 2790 | A | N3-C4-N9 | 6.34 | 132.47 | 127.40 |
| 1 | A | 2794 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 1 | A | 1490 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 31 | W | 335 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 51 | y | 24 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 31 | W | 727 | A | C4-C5-C6 | 6.34 | 120.17 | 117.00 |
| 31 | W | 1278 | A | N3-C4-N9 | 6.34 | 132.47 | 127.40 |
| 1 | A | 2830 | A | C4-C5-C6 | 6.33 | 120.17 | 117.00 |
| 1 | A | 1945 | A | C4-C5-C6 | 6.33 | 120.17 | 117.00 |
| 1 | A | 2049 | A | C4-C5-C6 | 6.33 | 120.17 | 117.00 |
| 1 | A | 2827 | A | C4-C5-C6 | 6.33 | 120.17 | 117.00 |
| 31 | W | 1315 | A | N3-C4-N9 | 6.33 | 132.47 | 127.40 |
| 1 | A | 156 | A | C4-C5-C6 | 6.33 | 120.17 | 117.00 |
| 1 | A | 1767 | A | C4-C5-C6 | 6.33 | 120.17 | 117.00 |
| 31 | W | 649 | A | C4-C5-C6 | 6.33 | 120.16 | 117.00 |
| 31 | W | 1384 | A | N3-C4-N9 | 6.33 | 132.46 | 127.40 |
| 31 | W | 1256 | A | N3-C4-N9 | 6.33 | 132.46 | 127.40 |
| 31 | W | 1425 | A | C4-C5-C6 | 6.33 | 120.16 | 117.00 |
| 1 | A | 578 | A | N3-C4-N9 | 6.33 | 132.46 | 127.40 |
| 31 | W | 959 | A | C4-C5-C6 | 6.33 | 120.16 | 117.00 |
| 1 | A | 894 | A | C4-C5-C6 | 6.32 | 120.16 | 117.00 |
| 1 | A | 2026 | A | N3-C4-N9 | 6.32 | 132.46 | 127.40 |
| 31 | W | 1065 | A | N3-C4-N9 | 6.32 | 132.46 | 127.40 |
| 1 | A | 1096 | A | N3-C4-N9 | 6.32 | 132.46 | 127.40 |
| 1 | A | 1393 | A | C4-C5-C6 | 6.32 | 120.16 | 117.00 |
| 1 | A | 1858 | A | N3-C4-N9 | 6.32 | 132.46 | 127.40 |
| 1 | A | 1895 | A | C4-C5-C6 | 6.32 | 120.16 | 117.00 |
| 1 | A | 2924 | A | C4-C5-C6 | 6.32 | 120.16 | 117.00 |
| 1 | A | 1957 | A | C4-C5-C6 | 6.32 | 120.16 | 117.00 |
| 1 | A | 1286 | A | N3-C4-N9 | 6.32 | 132.45 | 127.40 |
| 1 | A | 2358 | A | N3-C4-N9 | 6.32 | 132.45 | 127.40 |
| 31 | W | 1252 | A | C4-C5-C6 | 6.32 | 120.16 | 117.00 |
| 1 | A | 501 | A | N9-C4-C5 | 6.31 | 108.33 | 105.80 |
| 1 | A | 661 | A | N3-C4-N9 | 6.31 | 132.45 | 127.40 |
| 31 | W | 793 | A | C4-C5-C6 | 6.31 | 120.16 | 117.00 |
| 1 | A | 1710 | A | C4-C5-C6 | 6.31 | 120.16 | 117.00 |
| 1 | A | 1506 | A | N3-C4-N9 | 6.31 | 132.45 | 127.40 |
| 1 | A | 2704 | A | C4-C5-C6 | 6.31 | 120.16 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 258 | A | N3-C4-N9 | 6.31 | 132.44 | 127.40 |
| 1 | A | 656 | A | N3-C4-N9 | 6.31 | 132.45 | 127.40 |
| 1 | A | 1947 | A | C4-C5-C6 | 6.31 | 120.15 | 117.00 |
| 31 | W | 548 | A | N3-C4-N9 | 6.31 | 132.44 | 127.40 |
| 1 | A | 623 | A | C4-C5-C6 | 6.31 | 120.15 | 117.00 |
| 1 | A | 724 | A | N3-C4-N9 | 6.30 | 132.44 | 127.40 |
| 1 | A | 1426 | A | N3-C4-N9 | 6.30 | 132.44 | 127.40 |
| 31 | W | 883 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 1 | A | 1190 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 1 | A | 2044 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 1 | A | 90 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 1 | A | 2831 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 31 | W | 984 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 31 | W | 1383 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 31 | W | 1478 | A | N3-C4-N9 | 6.30 | 132.44 | 127.40 |
| 1 | A | 1831 | A | N3-C4-N9 | 6.30 | 132.44 | 127.40 |
| 31 | W | 948 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 31 | W | 1016 | A | C4-C5-C6 | 6.30 | 120.15 | 117.00 |
| 31 | W | 1155 | A | N3-C4-N9 | 6.30 | 132.44 | 127.40 |
| 1 | A | 956 | A | N3-C4-N9 | 6.29 | 132.44 | 127.40 |
| 1 | A | 1480 | A | C4-C5-C6 | 6.29 | 120.15 | 117.00 |
| 1 | A | 2349 | A | C4-C5-C6 | 6.29 | 120.15 | 117.00 |
| 1 | A | 179 | A | C4-C5-C6 | 6.29 | 120.14 | 117.00 |
| 1 | A | 2329 | A | N3-C4-N9 | 6.29 | 132.43 | 127.40 |
| 31 | W | 862 | A | N9-C4-C5 | 6.29 | 108.31 | 105.80 |
| 1 | A | 260 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 1 | A | 1655 | A | N3-C4-N9 | 6.28 | 132.43 | 127.40 |
| 1 | A | 2365 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 1 | A | 2694 | A | N3-C4-N9 | 6.28 | 132.43 | 127.40 |
| 1 | A | 692 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 31 | W | 1160 | A | N3-C4-N9 | 6.28 | 132.43 | 127.40 |
| 31 | W | 1189 | A | N3-C4-N9 | 6.28 | 132.43 | 127.40 |
| 31 | W | 1366 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 1 | A | 1210 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 2 | B | 50 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 1 | A | 1477 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 1 | A | 1056 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 31 | W | 161 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 31 | W | 548 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 31 | W | 1349 | A | C4-C5-C6 | 6.28 | 120.14 | 117.00 |
| 51 | y | 9 | A | N3-C4-N9 | 6.28 | 132.42 | 127.40 |
| 1 | A | 2351 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 882 | A | N3-C4-N9 | 6.27 | 132.42 | 127.40 |
| 1 | A | 1885 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 31 | W | 996 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 31 | W | 1112 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 1 | A | 882 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 31 | W | 1222 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 1 | A | 1291 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 1 | A | 2026 | A | C4-C5-C6 | 6.27 | 120.14 | 117.00 |
| 1 | A | 2436 | A | C4-C5-C6 | 6.27 | 120.13 | 117.00 |
| 31 | W | 76 | A | N3-C4-N9 | 6.27 | 132.42 | 127.40 |
| 1 | A | 1025 | A | C4-C5-C6 | 6.27 | 120.13 | 117.00 |
| 1 | A | 1524 | A | N3-C4-N9 | 6.27 | 132.41 | 127.40 |
| 31 | W | 1517 | A | N3-C4-N9 | 6.27 | 132.41 | 127.40 |
| 1 | A | 185 | A | N3-C4-N9 | 6.26 | 132.41 | 127.40 |
| 1 | A | 1316 | A | N3-C4-N9 | 6.26 | 132.41 | 127.40 |
| 1 | A | 2100 | A | C4-C5-C6 | 6.26 | 120.13 | 117.00 |
| 31 | W | 1004 | A | N3-C4-N9 | 6.26 | 132.41 | 127.40 |
| 1 | A | 2089 | A | C8-N9-C4 | 6.26 | 108.31 | 105.80 |
| 31 | W | 711 | A | N3-C4-N9 | 6.26 | 132.41 | 127.40 |
| 31 | W | 1004 | A | C4-C5-C6 | 6.26 | 120.13 | 117.00 |
| 31 | W | 1238 | A | C4-C5-C6 | 6.26 | 120.13 | 117.00 |
| 51 | 1 | 70 | A | C4-C5-C6 | 6.26 | 120.13 | 117.00 |
| 1 | A | 1067 | A | N9-C4-C5 | 6.26 | 108.30 | 105.80 |
| 1 | A | 1888 | A | C4-C5-C6 | 6.26 | 120.13 | 117.00 |
| 1 | A | 1126 | A | N3-C4-N9 | 6.26 | 132.41 | 127.40 |
| 1 | A | 193 | A | C4-C5-C6 | 6.26 | 120.13 | 117.00 |
| 1 | A | 1877 | A | N3-C4-N9 | 6.26 | 132.41 | 127.40 |
| 1 | A | 2819 | A | C8-N9-C4 | 6.26 | 108.30 | 105.80 |
| 31 | W | 984 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 1 | A | 616 | A | C4-C5-C6 | 6.25 | 120.13 | 117.00 |
| 1 | A | 1776 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 1 | A | 2270 | A | C4-C5-C6 | 6.25 | 120.13 | 117.00 |
| 1 | A | 970 | A | C4-C5-C6 | 6.25 | 120.13 | 117.00 |
| 1 | A | 2790 | A | C4-C5-C6 | 6.25 | 120.13 | 117.00 |
| 1 | A | 1900 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 1 | A | 2302 | A | C4-C5-C6 | 6.25 | 120.12 | 117.00 |
| 1 | A | 2349 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 1 | A | 2395 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 31 | W | 74 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 1 | A | 1357 | A | C4-C5-C6 | 6.25 | 120.12 | 117.00 |
| 1 | A | 1709 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |
| 1 | A | 2027 | A | N3-C4-N9 | 6.25 | 132.40 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 391 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 1132 | A | N3-C4-N9 | 6.24 | 132.40 | 127.40 |
| 1 | A | 1194 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 1768 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 31 | W | 875 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 407 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 1 | A | 2052 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 1 | A | 752 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 31 | W | 57 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 156 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 438 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 1536 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 2916 | A | N9-C4-C5 | 6.24 | 108.30 | 105.80 |
| 2 | B | 18 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 31 | W | 463 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 31 | W | 685 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 31 | W | 711 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 31 | W | 911 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 31 | W | 1179 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 31 | W | 1372 | A | N9-C4-C5 | 6.24 | 108.30 | 105.80 |
| 1 | A | 41 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 2006 | A | C4-C5-C6 | 6.24 | 120.12 | 117.00 |
| 2 | B | 97 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 31 | W | 948 | A | N3-C4-N9 | 6.24 | 132.39 | 127.40 |
| 1 | A | 2358 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 31 | W | 512 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 1 | A | 431 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 1 | A | 1421 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 1 | A | 1426 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 1 | A | 2643 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 31 | W | 1517 | A | C4-C5-C6 | 6.23 | 120.12 | 117.00 |
| 1 | A | 1235 | A | C4-C5-C6 | 6.23 | 120.11 | 117.00 |
| 31 | W | 555 | A | C4-C5-C6 | 6.23 | 120.11 | 117.00 |
| 1 | A | 1042 | A | C4-C5-C6 | 6.23 | 120.11 | 117.00 |
| 1 | A | 1883 | A | N3-C4-N9 | 6.23 | 132.38 | 127.40 |
| 31 | W | 1236 | A | C4-C5-C6 | 6.23 | 120.11 | 117.00 |
| 1 | A | 2532 | A | N3-C4-N9 | 6.23 | 132.38 | 127.40 |
| 31 | W | 335 | A | N3-C4-N9 | 6.23 | 132.38 | 127.40 |
| 31 | W | 1427 | A | N3-C4-N9 | 6.23 | 132.38 | 127.40 |
| 31 | W | 882 | A | C4-C5-C6 | 6.23 | 120.11 | 117.00 |
| 31 | W | 996 | A | N3-C4-N9 | 6.23 | 132.38 | 127.40 |
| 31 | W | 1455 | A | C4-C5-C6 | 6.23 | 120.11 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1392 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 1393 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 2362 | A | C8-N9-C4 | 6.22 | 108.29 | 105.80 |
| 31 | W | 1256 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 2663 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 2826 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 31 | W | 1016 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 133 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 943 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 1845 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 2106 | A | N3-C4-N9 | 6.22 | 132.38 | 127.40 |
| 1 | A | 2663 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 2851 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 51 | 1 | 21 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 2689 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 549 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 1727 | A | N3-C4-N9 | 6.22 | 132.37 | 127.40 |
| 1 | A | 2338 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 31 | W | 956 | A | C4-C5-C6 | 6.22 | 120.11 | 117.00 |
| 1 | A | 689 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 1190 | A | N3-C4-N9 | 6.21 | 132.37 | 127.40 |
| 1 | A | 1406 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 1619 | A | N3-C4-N9 | 6.21 | 132.37 | 127.40 |
| 1 | A | 171 | A | N3-C4-N9 | 6.21 | 132.37 | 127.40 |
| 1 | A | 593 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 1054 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 2876 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 391 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 133 | A | N3-C4-N9 | 6.21 | 132.37 | 127.40 |
| 1 | A | 2316 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 31 | W | 433 | A | C4-C5-C6 | 6.21 | 120.11 | 117.00 |
| 1 | A | 724 | A | C4-C5-C6 | 6.21 | 120.10 | 117.00 |
| 31 | W | 978 | A | C4-C5-C6 | 6.21 | 120.10 | 117.00 |
| 51 | y | 70 | A | C4-C5-C6 | 6.21 | 120.10 | 117.00 |
| 1 | A | 265 | A | N3-C4-N9 | 6.21 | 132.37 | 127.40 |
| 1 | A | 1998 | A | C4-C5-C6 | 6.21 | 120.10 | 117.00 |
| 1 | A | 2590 | A | C4-C5-C6 | 6.21 | 120.10 | 117.00 |
| 2 | B | 11 | A | C4-C5-C6 | 6.21 | 120.10 | 117.00 |
| 1 | A | 2365 | A | N3-C4-N9 | 6.21 | 132.36 | 127.40 |
| 1 | A | 790 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 1714 | A | C5-C6-N1 | 6.20 | 120.80 | 117.70 |
| 1 | A | 1776 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 51 | y | 37 | A | N9-C4-C5 | 6.20 | 108.28 | 105.80 |
| 31 | W | 1435 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 958 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 2381 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 31 | W | 715 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 31 | W | 1155 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 51 | 1 | 41 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 52 | A | N3-C4-N9 | 6.20 | 132.36 | 127.40 |
| 1 | A | 1661 | A | N9-C4-C5 | 6.20 | 108.28 | 105.80 |
| 1 | A | 2826 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 2848 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 31 | W | 721 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 185 | A | C4-C5-C6 | 6.20 | 120.10 | 117.00 |
| 1 | A | 462 | A | N3-C4-N9 | 6.20 | 132.36 | 127.40 |
| 1 | A | 200 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 1 | A | 943 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 31 | W | 74 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 1 | A | 592 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 1 | A | 2570 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 1 | A | 2750 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 31 | W | 128 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 31 | W | 917 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 1 | A | 339 | A | C4-C5-C6 | 6.19 | 120.09 | 117.00 |
| 1 | A | 462 | A | C4-C5-C6 | 6.19 | 120.10 | 117.00 |
| 1 | A | 870 | A | N3-C4-N9 | 6.19 | 132.35 | 127.40 |
| 1 | A | 2805 | A | C8-N9-C4 | 6.19 | 108.28 | 105.80 |
| 1 | A | 2812 | A | N3-C4-N9 | 6.19 | 132.35 | 127.40 |
| 31 | W | 1160 | A | C4-C5-C6 | 6.19 | 120.09 | 117.00 |
| 1 | A | 61 | A | C4-C5-C6 | 6.19 | 120.09 | 117.00 |
| 1 | A | 1710 | A | N3-C4-N9 | 6.19 | 132.35 | 127.40 |
| 1 | A | 56 | A | C4-C5-C6 | 6.19 | 120.09 | 117.00 |
| 1 | A | 1074 | A | N3-C4-N9 | 6.19 | 132.35 | 127.40 |
| 1 | A | 1490 | A | N3-C4-N9 | 6.19 | 132.35 | 127.40 |
| 1 | A | 2845 | A | C4-C5-C6 | 6.19 | 120.09 | 117.00 |
| 31 | W | 129 | A | C4-C5-C6 | 6.19 | 120.09 | 117.00 |
| 31 | W | 282 | A | N3-C4-N9 | 6.19 | 132.35 | 127.40 |
| 1 | A | 496 | A | N3-C4-N9 | 6.18 | 132.35 | 127.40 |
| 1 | A | 1680 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 1685 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 31 | W | 278 | A | N3-C4-N9 | 6.18 | 132.35 | 127.40 |
| 1 | A | 91 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 699 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1254 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 1284 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 1520 | A | N3-C4-N9 | 6.18 | 132.34 | 127.40 |
| 1 | A | 1653 | A | N3-C4-N9 | 6.18 | 132.35 | 127.40 |
| 1 | A | 1850 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 31 | W | 519 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 2 | B | 37 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 31 | W | 1272 | A | N3-C4-N9 | 6.18 | 132.34 | 127.40 |
| 1 | A | 765 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 790 | A | N3-C4-N9 | 6.18 | 132.34 | 127.40 |
| 1 | A | 1918 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 41 | A | C4-C5-C6 | 6.18 | 120.09 | 117.00 |
| 1 | A | 407 | A | N3-C4-N9 | 6.18 | 132.34 | 127.40 |
| 1 | A | 1695 | A | N3-C4-N9 | 6.18 | 132.34 | 127.40 |
| 1 | A | 428 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 1 | A | 667 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 31 | W | 151 | A | N9-C4-C5 | 6.17 | 108.27 | 105.80 |
| 31 | W | 874 | A | N3-C4-N9 | 6.17 | 132.34 | 127.40 |
| 1 | A | 517 | A | N3-C4-N9 | 6.17 | 132.34 | 127.40 |
| 1 | A | 1675 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 1 | A | 2629 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 31 | W | 1284 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 1 | A | 1075 | A | N3-C4-N9 | 6.17 | 132.34 | 127.40 |
| 1 | A | 1876 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 1 | A | 2405 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 2461 | A | C4-C5-C6 | 6.17 | 120.09 | 117.00 |
| 2 | B | 64 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 31 | W | 1189 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 970 | A | N3-C4-N9 | 6.17 | 132.34 | 127.40 |
| 31 | W | 1128 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 1005 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 1398 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 31 | W | 55 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 130 | A | N3-C4-N9 | 6.17 | 132.33 | 127.40 |
| 1 | A | 144 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 353 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 549 | A | N3-C4-N9 | 6.17 | 132.33 | 127.40 |
| 1 | A | 2389 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 31 | W | 902 | A | C4-C5-C6 | 6.17 | 120.08 | 117.00 |
| 1 | A | 543 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 31 | W | 715 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 1 | A | 2517 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2662 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 31 | W | 72 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 31 | W | 1112 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 1 | A | 1606 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 1 | A | 2560 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 1 | A | 2779 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 31 | W | 55 | A | N3-C4-N9 | 6.16 | 132.33 | 127.40 |
| 1 | A | 574 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 1286 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 1174 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 1316 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 1323 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 1461 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 2066 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 2750 | A | C8-N9-C4 | 6.16 | 108.26 | 105.80 |
| 31 | W | 270 | A | C4-C5-C6 | 6.16 | 120.08 | 117.00 |
| 1 | A | 90 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 1 | A | 2854 | A | C4-C5-C6 | 6.15 | 120.08 | 117.00 |
| 1 | A | 2770 | A | C8-N9-C4 | 6.15 | 108.26 | 105.80 |
| 31 | W | 364 | A | C4-C5-C6 | 6.15 | 120.08 | 117.00 |
| 31 | W | 793 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 1 | A | 194 | A | C4-C5-C6 | 6.15 | 120.08 | 117.00 |
| 1 | A | 1998 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 1 | A | 469 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 1 | A | 753 | A | C4-C5-C6 | 6.15 | 120.08 | 117.00 |
| 1 | A | 2500 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 1 | A | 1230 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 1 | A | 1532 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 1 | A | 2846 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 31 | W | 301 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 31 | W | 650 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 31 | W | 879 | A | C8-N9-C4 | 6.15 | 108.26 | 105.80 |
| 31 | W | 1490 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 51 | y | 41 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 1 | A | 518 | A | N3-C4-N9 | 6.15 | 132.32 | 127.40 |
| 1 | A | 1745 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 31 | W | 1056 | A | C4-C5-C6 | 6.15 | 120.07 | 117.00 |
| 1 | A | 616 | A | N3-C4-N9 | 6.14 | 132.32 | 127.40 |
| 1 | A | 1405 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 2560 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 617 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 721 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1245 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 1 | A | 449 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 830 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 875 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 1348 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 1541 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 2542 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 190 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 605 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 56 | A | C8-N9-C4 | 6.14 | 108.26 | 105.80 |
| 31 | W | 1161 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 1442 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 1 | A | 592 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 1 | A | 722 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 1 | A | 1253 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 1 | A | 1575 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 1 | A | 1789 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 1848 | A | N3-C4-N9 | 6.14 | 132.31 | 127.40 |
| 2 | B | 113 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 31 | W | 140 | A | C4-C5-C6 | 6.14 | 120.07 | 117.00 |
| 1 | A | 326 | A | C4-C5-C6 | 6.13 | 120.07 | 117.00 |
| 1 | A | 692 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 1 | A | 2722 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 1 | A | 2812 | A | C4-C5-C6 | 6.13 | 120.07 | 117.00 |
| 2 | B | 20 | A | C4-C5-C6 | 6.13 | 120.07 | 117.00 |
| 31 | W | 617 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 51 | 1 | 21 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 1 | A | 219 | A | C4-C5-C6 | 6.13 | 120.07 | 117.00 |
| 1 | A | 1029 | A | C4-C5-C6 | 6.13 | 120.07 | 117.00 |
| 1 | A | 431 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 1 | A | 1424 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 31 | W | 605 | A | N3-C4-N9 | 6.13 | 132.31 | 127.40 |
| 1 | A | 1672 | A | N3-C4-N9 | 6.13 | 132.30 | 127.40 |
| 1 | A | 2302 | A | N3-C4-N9 | 6.13 | 132.30 | 127.40 |
| 1 | A | 2351 | A | N3-C4-N9 | 6.13 | 132.30 | 127.40 |
| 1 | A | 2827 | A | N3-C4-N9 | 6.13 | 132.30 | 127.40 |
| 31 | W | 496 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 31 | W | 862 | A | C4-C5-N7 | -6.13 | 107.64 | 110.70 |
| 1 | A | 206 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 1 | A | 231 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 1 | A | 574 | A | N3-C4-N9 | 6.13 | 132.30 | 127.40 |
| 1 | A | 690 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2083 | A | C8-N9-C4 | 6.13 | 108.25 | 105.80 |
| 1 | A | 2464 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 31 | W | 357 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 31 | W | 555 | A | N9-C4-C5 | 6.13 | 108.25 | 105.80 |
| 31 | W | 677 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 31 | W | 1247 | A | N9-C4-C5 | 6.13 | 108.25 | 105.80 |
| 31 | W | 1437 | A | C4-C5-C6 | 6.13 | 120.06 | 117.00 |
| 31 | W | 1493 | A | N3-C4-N9 | 6.13 | 132.30 | 127.40 |
| 1 | A | 774 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 1 | A | 1580 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 889 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 31 | W | 329 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 1434 | A | N9-C4-C5 | 6.12 | 108.25 | 105.80 |
| 1 | A | 2547 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 1 | A | 2848 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 31 | W | 81 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 31 | W | 743 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 31 | W | 811 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 1 | A | 2369 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 31 | W | 270 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 1 | A | 537 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 578 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 1735 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 1925 | A | N3-C4-N9 | 6.12 | 132.29 | 127.40 |
| 1 | A | 1995 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 31 | W | 346 | A | N3-C4-N9 | 6.12 | 132.30 | 127.40 |
| 31 | W | 743 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 31 | W | 1176 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 51 | 1 | 70 | A | N3-C4-N9 | 6.12 | 132.29 | 127.40 |
| 1 | A | 229 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 829 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 31 | W | 1297 | A | N3-C4-N9 | 6.12 | 132.29 | 127.40 |
| 1 | A | 429 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 896 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 1424 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 1663 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 1814 | A | N9-C4-C5 | 6.12 | 108.25 | 105.80 |
| 1 | A | 1882 | A | C4-C5-C6 | 6.12 | 120.06 | 117.00 |
| 1 | A | 318 | A | N3-C4-N9 | 6.11 | 132.29 | 127.40 |
| 1 | A | 1100 | A | N3-C4-N9 | 6.11 | 132.29 | 127.40 |
| 1 | A | 2007 | A | N3-C4-N9 | 6.11 | 132.29 | 127.40 |
| 31 | W | 203 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 630 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |
| 1 | A | 1357 | A | N3-C4-N9 | 6.11 | 132.29 | 127.40 |
| 1 | A | 1569 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |
| 1 | A | 1845 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |
| 1 | A | 2893 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |
| 31 | W | 234 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |
| 31 | W | 278 | A | C4-C5-C6 | 6.11 | 120.06 | 117.00 |
| 1 | A | 1258 | A | N3-C4-N9 | 6.11 | 132.29 | 127.40 |
| 1 | A | 2343 | A | N3-C4-N9 | 6.11 | 132.29 | 127.40 |
| 31 | W | 99 | A | C5-C6-N1 | 6.11 | 120.75 | 117.70 |
| 1 | A | 582 | A | C4-C5-C6 | 6.11 | 120.05 | 117.00 |
| 1 | A | 2032 | A | C4-C5-C6 | 6.11 | 120.05 | 117.00 |
| 1 | A | 560 | A | N3-C4-N9 | 6.11 | 132.28 | 127.40 |
| 1 | A | 2270 | A | N3-C4-N9 | 6.11 | 132.28 | 127.40 |
| 1 | A | 1774 | A | C4-C5-C6 | 6.10 | 120.05 | 117.00 |
| 51 | y | 70 | A | N3-C4-N9 | 6.10 | 132.28 | 127.40 |
| 2 | B | 99 | A | C5-C6-N1 | 6.10 | 120.75 | 117.70 |
| 1 | A | 870 | A | C4-C5-C6 | 6.10 | 120.05 | 117.00 |
| 31 | W | 301 | A | C4-C5-C6 | 6.10 | 120.05 | 117.00 |
| 1 | A | 1046 | A | N9-C4-C5 | 6.10 | 108.24 | 105.80 |
| 1 | A | 1461 | A | N3-C4-N9 | 6.10 | 132.28 | 127.40 |
| 31 | W | 210 | A | C4-C5-C6 | 6.10 | 120.05 | 117.00 |
| 31 | W | 883 | A | N3-C4-N9 | 6.10 | 132.28 | 127.40 |
| 31 | W | 1349 | A | N3-C4-N9 | 6.10 | 132.28 | 127.40 |
| 51 | 1 | 41 | A | N3-C4-N9 | 6.10 | 132.28 | 127.40 |
| 1 | A | 525 | A | C8-N9-C4 | 6.09 | 108.24 | 105.80 |
| 1 | A | 964 | A | N3-C4-N9 | 6.09 | 132.28 | 127.40 |
| 1 | A | 1100 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 1188 | A | N9-C4-C5 | 6.09 | 108.24 | 105.80 |
| 1 | A | 1575 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 2044 | A | N3-C4-N9 | 6.09 | 132.28 | 127.40 |
| 1 | A | 1956 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 2078 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 2497 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 31 | W | 1328 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 21 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 1 | A | 925 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 1 | A | 1620 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 1 | A | 1838 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 2722 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 2 | B | 50 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 31 | W | 314 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 31 | W | 1369 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 1 | A | 71 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 530 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 589 | G | C2'-C3'-O3' | -6.09 | 96.11 | 109.50 |
| 1 | A | 1655 | A | C4-C5-C6 | 6.09 | 120.05 | 117.00 |
| 1 | A | 1260 | A | C4-C5-C6 | 6.09 | 120.04 | 117.00 |
| 1 | A | 1404 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 1 | A | 1614 | A | N3-C4-N9 | 6.09 | 132.27 | 127.40 |
| 1 | A | 1724 | A | C4-C5-C6 | 6.09 | 120.04 | 117.00 |
| 1 | A | 868 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 1059 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 1126 | A | C8-N9-C4 | 6.08 | 108.23 | 105.80 |
| 1 | A | 1888 | A | N3-C4-N9 | 6.08 | 132.27 | 127.40 |
| 1 | A | 2719 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 2919 | A | N3-C4-N9 | 6.08 | 132.27 | 127.40 |
| 31 | W | 282 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 31 | W | 433 | A | N3-C4-N9 | 6.08 | 132.27 | 127.40 |
| 1 | A | 376 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 2317 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 2668 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 2700 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 31 | W | 271 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 31 | W | 790 | A | C8-N9-C4 | 6.08 | 108.23 | 105.80 |
| 1 | A | 1019 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 2662 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 31 | W | 671 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 623 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 1019 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 2517 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 2700 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 31 | W | 225 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 31 | W | 381 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 31 | W | 768 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 51 | 1 | 44 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 173 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 1483 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 849 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 1047 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 1066 | A | C8-N9-C4 | 6.08 | 108.23 | 105.80 |
| 1 | A | 1132 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 1 | A | 1477 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 1680 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1760 | A | C4-C5-C6 | 6.08 | 120.04 | 117.00 |
| 31 | W | 140 | A | N3-C4-N9 | 6.08 | 132.26 | 127.40 |
| 1 | A | 374 | A | C8-N9-C4 | 6.07 | 108.23 | 105.80 |
| 1 | A | 1375 | A | N3-C4-N9 | 6.07 | 132.26 | 127.40 |
| 1 | A | 1627 | A | C4-C5-C6 | 6.07 | 120.04 | 117.00 |
| 1 | A | 1677 | A | C4-C5-C6 | 6.07 | 120.04 | 117.00 |
| 31 | W | 129 | A | N3-C4-N9 | 6.07 | 132.26 | 127.40 |
| 31 | W | 1179 | A | N3-C4-N9 | 6.07 | 132.26 | 127.40 |
| 1 | A | 2383 | A | C4-C5-C6 | 6.07 | 120.04 | 117.00 |
| 1 | A | 2719 | A | N3-C4-N9 | 6.07 | 132.26 | 127.40 |
| 1 | A | 2831 | A | N3-C4-N9 | 6.07 | 132.26 | 127.40 |
| 31 | W | 1260 | A | C4-C5-C6 | 6.07 | 120.04 | 117.00 |
| 1 | A | 1445 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 1721 | A | C4-C5-C6 | 6.07 | 120.04 | 117.00 |
| 1 | A | 1895 | A | N3-C4-N9 | 6.07 | 132.26 | 127.40 |
| 1 | A | 1989 | A | C4-C5-C6 | 6.07 | 120.04 | 117.00 |
| 31 | W | 518 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 51 | 1 | 37 | A | N9-C4-C5 | 6.07 | 108.23 | 105.80 |
| 1 | A | 329 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 1202 | A | C8-N9-C4 | 6.07 | 108.23 | 105.80 |
| 1 | A | 437 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 851 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 1005 | A | N3-C4-N9 | 6.07 | 132.25 | 127.40 |
| 1 | A | 1542 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 31 | W | 1405 | A | N3-C4-N9 | 6.07 | 132.25 | 127.40 |
| 31 | W | 1417 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 305 | A | N3-C4-N9 | 6.07 | 132.25 | 127.40 |
| 1 | A | 318 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 896 | A | N3-C4-N9 | 6.07 | 132.25 | 127.40 |
| 1 | A | 1233 | A | N3-C4-N9 | 6.07 | 132.25 | 127.40 |
| 1 | A | 1533 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 2421 | A | N3-C4-N9 | 6.07 | 132.25 | 127.40 |
| 1 | A | 2769 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 31 | W | 803 | A | C4-C5-C6 | 6.07 | 120.03 | 117.00 |
| 1 | A | 438 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 956 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 1848 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 674 | A | C4-C5-N7 | -6.06 | 107.67 | 110.70 |
| 31 | W | 1103 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 1233 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 1388 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 1388 | A | N3-C4-N9 | 6.06 | 132.25 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1606 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 423 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 758 | A | N3-C4-N9 | 6.06 | 132.25 | 127.40 |
| 31 | W | 1048 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 278 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 947 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 952 | A | N3-C4-N9 | 6.06 | 132.25 | 127.40 |
| 1 | A | 1555 | A | C4-C5-N7 | -6.06 | 107.67 | 110.70 |
| 1 | A | 2060 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 801 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 1320 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 73 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 353 | A | N3-C4-N9 | 6.06 | 132.25 | 127.40 |
| 1 | A | 355 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 971 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 81 | A | N3-C4-N9 | 6.06 | 132.25 | 127.40 |
| 31 | W | 556 | A | C8-N9-C4 | 6.06 | 108.22 | 105.80 |
| 31 | W | 1143 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 1283 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 547 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 1697 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 2900 | A | N3-C4-N9 | 6.06 | 132.25 | 127.40 |
| 31 | W | 1266 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 1 | A | 705 | A | N3-C4-N9 | 6.06 | 132.24 | 127.40 |
| 51 | 1 | 58 | A | C4-C5-C6 | 6.06 | 120.03 | 117.00 |
| 31 | W | 975 | A | C4-C5-C6 | 6.05 | 120.03 | 117.00 |
| 1 | A | 1175 | A | C4-C5-C6 | 6.05 | 120.03 | 117.00 |
| 1 | A | 1346 | A | C4-C5-C6 | 6.05 | 120.03 | 117.00 |
| 1 | A | 2369 | A | C4-C5-C6 | 6.05 | 120.03 | 117.00 |
| 31 | W | 671 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 696 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 1238 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 1366 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 1425 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 1 | A | 1768 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 1 | A | 2441 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 404 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 529 | A | C4-C5-C6 | 6.05 | 120.03 | 117.00 |
| 31 | W | 913 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 1 | A | 2619 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 1 | A | 305 | A | C4-C5-C6 | 6.05 | 120.02 | 117.00 |
| 1 | A | 622 | A | C4-C5-C6 | 6.05 | 120.02 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|------|-------------|----------|
| 1 | A | 957 | A | C4-C5-C6 | 6.05 | 120.02 | 117.00 |
| 1 | A | 1608 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 2 | B | 105 | A | C4-C5-C6 | 6.05 | 120.02 | 117.00 |
| 31 | W | 618 | A | C4-C5-C6 | 6.05 | 120.02 | 117.00 |
| 31 | W | 918 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 31 | W | 1435 | A | N3-C4-N9 | 6.05 | 132.24 | 127.40 |
| 1 | A | 44 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 1615 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 324 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 1686 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 2080 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 31 | W | 604 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 31 | W | 611 | A | N3-C4-N9 | 6.04 | 132.24 | 127.40 |
| 1 | A | 364 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 369 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 412 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 524 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 1113 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 2105 | U | C2-N1-C1' | 6.04 | 124.95 | 117.70 |
| 1 | A | 2417 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 2734 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 2754 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 31 | W | 913 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 469 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 1265 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 1524 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 1925 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 456 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 1901 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 2047 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 2052 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 2381 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 2830 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 31 | W | 730 | A | C8-N9-C4 | 6.04 | 108.22 | 105.80 |
| 1 | A | 260 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 971 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 1254 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 1291 | A | C8-N9-C4 | 6.04 | 108.22 | 105.80 |
| 1 | A | 1464 | A | N3-C4-N9 | 6.04 | 132.23 | 127.40 |
| 1 | A | 1784 | A | C8-N9-C4 | 6.04 | 108.21 | 105.80 |
| 1 | A | 2018 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 2683 | A | C8-N9-C4 | 6.04 | 108.21 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 1 | A | 2708 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 31 | W | 462 | A | C4-C5-C6 | 6.04 | 120.02 | 117.00 |
| 1 | A | 1339 | A | C4-C5-C6 | 6.03 | 120.02 | 117.00 |
| 1 | A | 1592 | A | C4-C5-C6 | 6.03 | 120.02 | 117.00 |
| 1 | A | 1981 | A | C4-C5-C6 | 6.03 | 120.02 | 117.00 |
| 1 | A | 2080 | A | C4-C5-C6 | 6.03 | 120.02 | 117.00 |
| 1 | A | 2047 | A | N3-C4-N9 | 6.03 | 132.22 | 127.40 |
| 1 | A | 1224 | A | C4-C5-C6 | 6.03 | 120.02 | 117.00 |
| 1 | A | 2670 | A | C4-C5-N7 | -6.03 | 107.69 | 110.70 |
| 31 | W | 1327 | A | N3-C4-N9 | 6.03 | 132.22 | 127.40 |
| 1 | A | 273 | A | N9-C4-C5 | 6.03 | 108.21 | 105.80 |
| 1 | A | 1723 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 2488 | A | C5'-C4'-C3' | -6.03 | 106.35 | 116.00 |
| 31 | W | 160 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 781 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 876 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 888 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 1553 | A | C8-N9-C4 | 6.03 | 108.21 | 105.80 |
| 1 | A | 1832 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 2316 | A | N3-C4-N9 | 6.03 | 132.22 | 127.40 |
| 31 | W | 659 | A | N3-C4-N9 | 6.03 | 132.22 | 127.40 |
| 31 | W | 725 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 31 | W | 886 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 1361 | A | N3-C4-N9 | 6.03 | 132.22 | 127.40 |
| 1 | A | 2356 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 2 | B | 51 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 51 | y | 21 | A | C4-C5-C6 | 6.03 | 120.01 | 117.00 |
| 1 | A | 1812 | A | N9-C4-C5 | 6.02 | 108.21 | 105.80 |
| 31 | W | 512 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 31 | W | 1222 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 31 | W | 1510 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 2594 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 2616 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 893 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 1636 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 1913 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 2500 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 31 | W | 62 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 31 | W | 518 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 31 | W | 638 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 102 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 1 | A | 1700 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1813 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 31 | W | 631 | A | N9-C4-C5 | 6.02 | 108.21 | 105.80 |
| 1 | A | 1456 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 2511 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 2 | B | 114 | A | N3-C4-N9 | 6.02 | 132.22 | 127.40 |
| 31 | W | 161 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 31 | W | 364 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 31 | W | 462 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 31 | W | 917 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 31 | W | 956 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 31 | W | 1355 | A | C8-N9-C4 | 6.02 | 108.21 | 105.80 |
| 1 | A | 326 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 1 | A | 1284 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 2 | B | 64 | A | N3-C4-N9 | 6.02 | 132.21 | 127.40 |
| 31 | W | 1120 | A | C4-C5-C6 | 6.02 | 120.01 | 117.00 |
| 1 | A | 479 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 507 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 1269 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 1491 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 2298 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 2497 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 2805 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 2887 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 31 | W | 35 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 31 | W | 460 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 31 | W | 1261 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 849 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 876 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 908 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 2754 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 2 | B | 44 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 31 | W | 1022 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 31 | W | 1523 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 1 | A | 61 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 575 | A | C8-N9-C4 | 6.01 | 108.20 | 105.80 |
| 1 | A | 652 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 1174 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 1506 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 2904 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 31 | W | 870 | A | C4-C5-C6 | 6.01 | 120.01 | 117.00 |
| 31 | W | 1252 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 31 | W | 1541 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 507 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 2740 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 31 | W | 53 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 31 | W | 346 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 31 | W | 677 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 31 | W | 1260 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 31 | W | 1405 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 373 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 1131 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 51 | 1 | 76 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 110 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 647 | A | C8-N9-C4 | 6.01 | 108.20 | 105.80 |
| 1 | A | 1421 | A | N3-C4-N9 | 6.01 | 132.20 | 127.40 |
| 1 | A | 1685 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 1 | A | 1876 | A | N3-C4-N9 | 6.01 | 132.20 | 127.40 |
| 1 | A | 2869 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 2 | B | 43 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 31 | W | 1024 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 31 | W | 1115 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 31 | W | 1383 | A | N3-C4-N9 | 6.01 | 132.21 | 127.40 |
| 31 | W | 1509 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 51 | y | 58 | A | C4-C5-C6 | 6.01 | 120.00 | 117.00 |
| 1 | A | 1965 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 2477 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 31 | W | 945 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 140 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 1516 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 2 | B | 71 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 31 | W | 1092 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 65 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 369 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 459 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 1072 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 1947 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 31 | W | 10 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 31 | W | 381 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 31 | W | 644 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 71 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 1 | A | 952 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 1130 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 1885 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 31 | W | 1054 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 12 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 207 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 1 | A | 1406 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 1556 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 2875 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 31 | W | 1180 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 31 | W | 1266 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 31 | W | 1407 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 51 | y | 21 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 178 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 935 | A | C4-C5-N7 | -6.00 | 107.70 | 110.70 |
| 1 | A | 1404 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 1424 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 1 | A | 1906 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 2389 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 31 | W | 195 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 31 | W | 281 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 31 | W | 290 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 717 | A | C4-C5-C6 | 6.00 | 120.00 | 117.00 |
| 1 | A | 1445 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 1532 | A | C8-N9-C4 | 6.00 | 108.20 | 105.80 |
| 31 | W | 225 | A | N3-C4-N9 | 6.00 | 132.20 | 127.40 |
| 1 | A | 314 | A | C8-N9-C4 | 5.99 | 108.20 | 105.80 |
| 1 | A | 470 | A | C8-N9-C4 | 5.99 | 108.20 | 105.80 |
| 1 | A | 868 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 889 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 2066 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 2468 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 1 | A | 2769 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 2834 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 1 | A | 2851 | A | C8-N9-C4 | 5.99 | 108.20 | 105.80 |
| 31 | W | 679 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 31 | W | 1503 | A | C8-N9-C4 | 5.99 | 108.20 | 105.80 |
| 31 | W | 18 | A | C8-N9-C4 | 5.99 | 108.20 | 105.80 |
| 31 | W | 583 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 31 | W | 1188 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 1 | A | 1021 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 1 | A | 1473 | A | C8-N9-C4 | 5.99 | 108.20 | 105.80 |
| 1 | A | 2330 | A | N9-C4-C5 | 5.99 | 108.20 | 105.80 |
| 1 | A | 2462 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 1 | A | 231 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 525 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 530 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 1588 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 1818 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 1942 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 31 | W | 72 | A | C4-C5-C6 | 5.99 | 120.00 | 117.00 |
| 31 | W | 118 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 31 | W | 150 | A | N9-C4-C5 | 5.99 | 108.19 | 105.80 |
| 31 | W | 390 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 31 | W | 496 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 31 | W | 974 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 31 | W | 1333 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 230 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 630 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 1066 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 1905 | A | N9-C4-C5 | 5.99 | 108.19 | 105.80 |
| 31 | W | 1349 | A | C8-N9-C4 | 5.99 | 108.19 | 105.80 |
| 51 | y | 14 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 236 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 1144 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 1627 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 1813 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 2087 | A | C4-C5-C6 | 5.99 | 119.99 | 117.00 |
| 1 | A | 2505 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 2668 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 2851 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 2 | B | 18 | A | N9-C4-C5 | 5.99 | 108.19 | 105.80 |
| 2 | B | 51 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 31 | W | 1014 | A | N3-C4-N9 | 5.99 | 132.19 | 127.40 |
| 1 | A | 1617 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 2 | B | 71 | A | N3-C4-N9 | 5.98 | 132.19 | 127.40 |
| 31 | W | 204 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 824 | A | C8-N9-C4 | 5.98 | 108.19 | 105.80 |
| 1 | A | 230 | A | N3-C4-N9 | 5.98 | 132.19 | 127.40 |
| 1 | A | 659 | A | N3-C4-N9 | 5.98 | 132.19 | 127.40 |
| 1 | A | 1055 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 1672 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 630 | A | N3-C4-N9 | 5.98 | 132.19 | 127.40 |
| 1 | A | 38 | A | N3-C4-N9 | 5.98 | 132.18 | 127.40 |
| 1 | A | 171 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 220 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 225 | A | N3-C4-N9 | 5.98 | 132.18 | 127.40 |
| 1 | A | 307 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 922 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 1553 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 1636 | A | N3-C4-N9 | 5.98 | 132.19 | 127.40 |
| 1 | A | 1734 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 2778 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 786 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 1403 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 475 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 124 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 600 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 1302 | A | N9-C4-C5 | 5.98 | 108.19 | 105.80 |
| 1 | A | 2923 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 544 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 583 | A | N9-C4-C5 | 5.98 | 108.19 | 105.80 |
| 31 | W | 1147 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 144 | A | N3-C4-N9 | 5.98 | 132.18 | 127.40 |
| 1 | A | 1929 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 31 | W | 611 | A | C4-C5-C6 | 5.98 | 119.99 | 117.00 |
| 1 | A | 21 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 1 | A | 808 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 1 | A | 987 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 1 | A | 2100 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 1 | A | 2461 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 31 | W | 532 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 31 | W | 919 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 31 | W | 1284 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 31 | W | 1294 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 31 | W | 1333 | A | N9-C4-C5 | 5.97 | 108.19 | 105.80 |
| 31 | W | 1463 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 1 | A | 161 | A | N9-C4-C5 | 5.97 | 108.19 | 105.80 |
| 1 | A | 1499 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 1 | A | 2468 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 31 | W | 296 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 31 | W | 611 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 31 | W | 923 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 1 | A | 547 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 31 | W | 35 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 31 | W | 1257 | A | C4-C5-C6 | 5.97 | 119.99 | 117.00 |
| 51 | 1 | 76 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 1 | A | 10 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 330 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 727 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1520 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 2734 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 1 | A | 2860 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 31 | W | 1206 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 31 | W | 1328 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 1 | A | 630 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 1 | A | 722 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 1 | A | 1260 | A | N3-C4-N9 | 5.97 | 132.18 | 127.40 |
| 1 | A | 2083 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 31 | W | 1296 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 1 | A | 140 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 1 | A | 150 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 1 | A | 538 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 1 | A | 740 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 867 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 917 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 1405 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 1 | A | 1464 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 1541 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 1 | A | 2463 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 1 | A | 2601 | A | C8-N9-C4 | 5.97 | 108.19 | 105.80 |
| 31 | W | 34 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 31 | W | 504 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 31 | W | 1102 | A | C4-C5-C6 | 5.97 | 119.98 | 117.00 |
| 31 | W | 1188 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 51 | y | 58 | A | N3-C4-N9 | 5.97 | 132.17 | 127.40 |
| 1 | A | 774 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 1483 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 1928 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 2454 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 31 | W | 321 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 31 | W | 522 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 758 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 31 | W | 824 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 31 | W | 1369 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 31 | W | 1479 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 67 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 1116 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 1583 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 1743 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 2327 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 2708 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1348 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 1194 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 2049 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 2807 | A | N9-C4-C5 | 5.96 | 108.18 | 105.80 |
| 31 | W | 361 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 31 | W | 604 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 44 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 548 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 652 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 1347 | A | N9-C4-C5 | 5.96 | 108.18 | 105.80 |
| 1 | A | 1663 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 1956 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 2462 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 2889 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 2 | B | 20 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 31 | W | 419 | A | C8-N9-C4 | 5.96 | 108.18 | 105.80 |
| 31 | W | 1090 | A | C8-N9-C4 | 5.96 | 108.18 | 105.80 |
| 31 | W | 1403 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 705 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 769 | A | N3-C4-N9 | 5.96 | 132.17 | 127.40 |
| 1 | A | 2262 | A | N9-C4-C5 | 5.96 | 108.18 | 105.80 |
| 1 | A | 2454 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 31 | W | 61 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 31 | W | 404 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 31 | W | 638 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 31 | W | 799 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 31 | W | 1161 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 51 | y | 23 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 1 | A | 91 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 1 | A | 658 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 1588 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 1 | A | 2307 | A | C4-C5-C6 | 5.96 | 119.98 | 117.00 |
| 1 | A | 2767 | A | C8-N9-C4 | 5.96 | 108.18 | 105.80 |
| 31 | W | 251 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 31 | W | 1133 | A | C4-C5-N7 | -5.96 | 107.72 | 110.70 |
| 31 | W | 1236 | A | N3-C4-N9 | 5.96 | 132.16 | 127.40 |
| 1 | A | 765 | A | N9-C4-C5 | 5.95 | 108.18 | 105.80 |
| 1 | A | 1339 | A | C8-N9-C4 | 5.95 | 108.18 | 105.80 |
| 1 | A | 1453 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 1 | A | 1767 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 31 | W | 985 | A | C8-N9-C4 | 5.95 | 108.18 | 105.80 |
| 31 | W | 1463 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 51 | y | 41 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 139 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 1 | A | 2078 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 2327 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 1 | A | 2526 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 31 | W | 61 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 31 | W | 929 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 51 | 1 | 14 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 281 | A | C4-C5-N7 | -5.95 | 107.72 | 110.70 |
| 1 | A | 486 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 494 | A | N9-C4-C5 | 5.95 | 108.18 | 105.80 |
| 1 | A | 1727 | A | C8-N9-C4 | 5.95 | 108.18 | 105.80 |
| 1 | A | 2087 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 2440 | A | C4-C5-C6 | 5.95 | 119.98 | 117.00 |
| 1 | A | 2570 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 31 | W | 658 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 31 | W | 825 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 1298 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 31 | W | 1523 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 763 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 1 | A | 765 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 782 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 1901 | A | C8-N9-C4 | 5.95 | 108.18 | 105.80 |
| 1 | A | 2887 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 1 | A | 2898 | A | N9-C4-C5 | 5.95 | 108.18 | 105.80 |
| 31 | W | 107 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 234 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 31 | W | 659 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 696 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 1486 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 236 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 1121 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 1328 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 279 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 1 | A | 412 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 600 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 653 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 1 | A | 1059 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 1 | A | 1313 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 2 | B | 55 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 31 | W | 522 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |
| 31 | W | 771 | A | N3-C4-N9 | 5.95 | 132.16 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 968 | A | C4-C5-C6 | 5.95 | 119.97 | 117.00 |
| 1 | A | 275 | A | N3-C4-N9 | 5.94 | 132.16 | 127.40 |
| 31 | W | 1486 | A | N3-C4-N9 | 5.94 | 132.16 | 127.40 |
| 1 | A | 582 | A | C8-N9-C4 | 5.94 | 108.18 | 105.80 |
| 1 | A | 978 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 1265 | A | N3-C4-N9 | 5.94 | 132.16 | 127.40 |
| 1 | A | 1432 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 1555 | A | N9-C4-C5 | 5.94 | 108.18 | 105.80 |
| 1 | A | 1617 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 2787 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 31 | W | 12 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 31 | W | 240 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 31 | W | 705 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 31 | W | 724 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 31 | W | 1028 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 31 | W | 1031 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 31 | W | 1210 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 1269 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 1423 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 1534 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 1648 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 2447 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 2907 | A | C8-N9-C4 | 5.94 | 108.18 | 105.80 |
| 31 | W | 1455 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 166 | A | C8-N9-C4 | 5.94 | 108.18 | 105.80 |
| 1 | A | 1072 | A | C8-N9-C4 | 5.94 | 108.18 | 105.80 |
| 1 | A | 1456 | A | N9-C4-C5 | 5.94 | 108.18 | 105.80 |
| 1 | A | 2032 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 2047 | A | C8-N9-C4 | 5.94 | 108.18 | 105.80 |
| 1 | A | 2364 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 31 | W | 1056 | A | C8-N9-C4 | 5.94 | 108.18 | 105.80 |
| 31 | W | 1490 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 429 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 524 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 763 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 1020 | A | C8-N9-C4 | 5.94 | 108.17 | 105.80 |
| 1 | A | 2049 | A | C4-C5-N7 | -5.94 | 107.73 | 110.70 |
| 31 | W | 823 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 31 | W | 1014 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 31 | W | 1259 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 1614 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 1675 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 2511 | A | C4-C5-C6 | 5.94 | 119.97 | 117.00 |
| 1 | A | 2907 | A | N3-C4-N9 | 5.94 | 132.15 | 127.40 |
| 1 | A | 329 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 1735 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 1816 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 2 | B | 76 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 31 | W | 616 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 31 | W | 679 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 31 | W | 704 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 31 | W | 979 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 31 | W | 1509 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 330 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 374 | A | N9-C4-C5 | 5.93 | 108.17 | 105.80 |
| 1 | A | 618 | A | N9-C4-C5 | 5.93 | 108.17 | 105.80 |
| 1 | A | 904 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 1 | A | 1533 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 1 | A | 1608 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 1 | A | 1788 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 2034 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 1 | A | 2704 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 2 | B | 39 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 31 | W | 415 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 31 | W | 644 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 31 | W | 824 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 637 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 1 | A | 1553 | A | N3-C4-N9 | 5.93 | 132.15 | 127.40 |
| 1 | A | 71 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 1 | A | 102 | A | C4-C5-C6 | 5.93 | 119.96 | 117.00 |
| 1 | A | 343 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 1 | A | 835 | A | C4-C5-C6 | 5.93 | 119.96 | 117.00 |
| 2 | B | 43 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 31 | W | 1529 | A | C4-C5-C6 | 5.93 | 119.97 | 117.00 |
| 1 | A | 553 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 1 | A | 1686 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 1 | A | 1928 | A | C4-C5-C6 | 5.93 | 119.96 | 117.00 |
| 31 | W | 1528 | A | C4-C5-C6 | 5.93 | 119.96 | 117.00 |
| 1 | A | 6 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 1 | A | 259 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 1 | A | 547 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 1 | A | 2298 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 1 | A | 2498 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 1 | A | 2860 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 94 | A | C4-C5-C6 | 5.93 | 119.96 | 117.00 |
| 31 | W | 344 | A | N3-C4-N9 | 5.93 | 132.14 | 127.40 |
| 31 | W | 988 | A | C4-C5-C6 | 5.93 | 119.96 | 117.00 |
| 31 | W | 1327 | A | C8-N9-C4 | 5.93 | 108.17 | 105.80 |
| 1 | A | 2619 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 31 | W | 870 | A | N9-C4-C5 | 5.92 | 108.17 | 105.80 |
| 1 | A | 2845 | A | N9-C4-C5 | 5.92 | 108.17 | 105.80 |
| 31 | W | 228 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 31 | W | 529 | A | N3-C4-N9 | 5.92 | 132.14 | 127.40 |
| 1 | A | 14 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 194 | A | N3-C4-N9 | 5.92 | 132.14 | 127.40 |
| 1 | A | 808 | A | N3-C4-N9 | 5.92 | 132.14 | 127.40 |
| 1 | A | 1054 | A | N3-C4-N9 | 5.92 | 132.14 | 127.40 |
| 31 | W | 118 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 31 | W | 919 | A | N3-C4-N9 | 5.92 | 132.14 | 127.40 |
| 31 | W | 1140 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 2007 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 2807 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 31 | W | 923 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 1 | A | 278 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 1 | A | 325 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 500 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 1 | A | 1141 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 1961 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 1 | A | 2708 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 2 | B | 76 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 31 | W | 477 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 31 | W | 1248 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 31 | W | 1434 | A | C4-C5-N7 | -5.92 | 107.74 | 110.70 |
| 31 | W | 1529 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 1 | A | 13 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 1745 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 1 | A | 1925 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 31 | W | 31 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 31 | W | 266 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 31 | W | 738 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 31 | W | 762 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 31 | W | 768 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 31 | W | 899 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 1 | A | 384 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |
| 1 | A | 1034 | A | C8-N9-C4 | 5.92 | 108.17 | 105.80 |
| 1 | A | 2421 | A | C4-C5-C6 | 5.92 | 119.96 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2854 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 31 | W | 1270 | A | N3-C4-N9 | 5.92 | 132.13 | 127.40 |
| 1 | A | 28 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 53 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 470 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 1918 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 2390 | A | C8-N9-C4 | 5.91 | 108.17 | 105.80 |
| 31 | W | 771 | A | C4-C5-C6 | 5.91 | 119.96 | 117.00 |
| 31 | W | 796 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 12 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 337 | A | C4-C5-C6 | 5.91 | 119.96 | 117.00 |
| 1 | A | 2034 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 2317 | A | C4-C5-N7 | -5.91 | 107.74 | 110.70 |
| 1 | A | 2616 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 2740 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 2 | B | 114 | A | C4-C5-C6 | 5.91 | 119.96 | 117.00 |
| 31 | W | 1456 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 51 | 1 | 23 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 102 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 1 | A | 193 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 1788 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 2658 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 2889 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 2893 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 2 | B | 56 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 31 | W | 361 | A | C4-C5-C6 | 5.91 | 119.96 | 117.00 |
| 31 | W | 650 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 31 | W | 1128 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 307 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 421 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 753 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 762 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 829 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 1097 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 1312 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 1791 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 1961 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 2 | B | 25 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 31 | W | 389 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 31 | W | 724 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 31 | W | 737 | A | N9-C4-C5 | 5.91 | 108.16 | 105.80 |
| 31 | W | 1056 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 1283 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 1930 | A | N3-C4-N9 | 5.91 | 132.13 | 127.40 |
| 1 | A | 2406 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 31 | W | 617 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 31 | W | 1028 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 65 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 1 | A | 324 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 1 | A | 1945 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 1 | A | 2387 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 2658 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 2668 | A | C8-N9-C4 | 5.91 | 108.16 | 105.80 |
| 1 | A | 2846 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 31 | W | 251 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 31 | W | 382 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 31 | W | 650 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 31 | W | 799 | A | N3-C4-N9 | 5.91 | 132.12 | 127.40 |
| 31 | W | 1271 | A | C4-C5-C6 | 5.91 | 119.95 | 117.00 |
| 1 | A | 1014 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 1084 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 1291 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1631 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 31 | W | 333 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 31 | W | 796 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 31 | W | 1298 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 176 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 537 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1189 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 1201 | A | N9-C4-C5 | 5.90 | 108.16 | 105.80 |
| 1 | A | 2297 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 2593 | A | N9-C4-C5 | 5.90 | 108.16 | 105.80 |
| 31 | W | 139 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 31 | W | 568 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 31 | W | 658 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 31 | W | 1222 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 150 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 388 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 496 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 987 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1042 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 31 | W | 386 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 31 | W | 651 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 31 | W | 828 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 902 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 947 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1797 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 2406 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 2719 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 578 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 762 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 851 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1235 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1314 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 1 | A | 1326 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 1516 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1569 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1818 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 2317 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 2390 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 2606 | A | C4-C5-N7 | -5.90 | 107.75 | 110.70 |
| 2 | B | 25 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 31 | W | 173 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 31 | W | 762 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 31 | W | 777 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 31 | W | 1434 | A | C8-N9-C4 | 5.90 | 108.16 | 105.80 |
| 31 | W | 1513 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1197 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 1 | A | 1654 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 1746 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 1913 | A | N3-C4-N9 | 5.90 | 132.12 | 127.40 |
| 31 | W | 178 | A | C4-C5-C6 | 5.90 | 119.95 | 117.00 |
| 1 | A | 200 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 1 | A | 216 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 1 | A | 477 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 1 | A | 500 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 1 | A | 1194 | A | C8-N9-C4 | 5.89 | 108.16 | 105.80 |
| 1 | A | 2593 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 1 | A | 2770 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 31 | W | 139 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 31 | W | 532 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 31 | W | 664 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 31 | W | 1206 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 1 | A | 13 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 1 | A | 702 | A | C8-N9-C4 | 5.89 | 108.16 | 105.80 |
| 1 | A | 870 | A | C8-N9-C4 | 5.89 | 108.16 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 1126 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 1 | A | 1774 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 2338 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 31 | W | 94 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 31 | W | 685 | A | N3-C4-N9 | 5.89 | 132.12 | 127.40 |
| 31 | W | 738 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 31 | W | 1466 | A | C8-N9-C4 | 5.89 | 108.16 | 105.80 |
| 1 | A | 247 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 1 | A | 781 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 1314 | A | C4-C5-C6 | 5.89 | 119.95 | 117.00 |
| 1 | A | 2297 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 31 | W | 1147 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 31 | W | 1200 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 51 | 1 | 58 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 1305 | A | N9-C4-C5 | 5.89 | 108.16 | 105.80 |
| 1 | A | 1631 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 2893 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 31 | W | 776 | A | C4-C5-C6 | 5.89 | 119.94 | 117.00 |
| 31 | W | 1178 | A | C4-C5-C6 | 5.89 | 119.94 | 117.00 |
| 1 | A | 173 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 553 | A | C4-C5-C6 | 5.89 | 119.94 | 117.00 |
| 1 | A | 1003 | A | C8-N9-C4 | 5.89 | 108.15 | 105.80 |
| 1 | A | 1029 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 1056 | A | N9-C4-C5 | 5.89 | 108.16 | 105.80 |
| 1 | A | 1269 | A | C8-N9-C4 | 5.89 | 108.16 | 105.80 |
| 1 | A | 1453 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 2779 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 31 | W | 344 | A | C4-C5-C6 | 5.89 | 119.94 | 117.00 |
| 31 | W | 456 | A | C8-N9-C4 | 5.89 | 108.16 | 105.80 |
| 31 | W | 485 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 31 | W | 1024 | A | N3-C4-N9 | 5.89 | 132.11 | 127.40 |
| 1 | A | 1221 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 1882 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 1 | A | 1995 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 1 | A | 2447 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 1 | A | 2782 | A | N9-C4-C5 | 5.88 | 108.15 | 105.80 |
| 31 | W | 828 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 31 | W | 1185 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 51 | 1 | 21 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 1 | A | 1055 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 31 | W | 117 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 31 | W | 423 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 874 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 1 | A | 769 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 957 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 1131 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 1375 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 1533 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 1813 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 1 | A | 1942 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 2298 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 31 | W | 159 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 31 | W | 730 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 31 | W | 1205 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 31 | W | 1510 | A | N3-C4-N9 | 5.88 | 132.11 | 127.40 |
| 31 | W | 1528 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 2295 | A | N9-C4-C5 | 5.88 | 108.15 | 105.80 |
| 31 | W | 52 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 31 | W | 582 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 31 | W | 886 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 31 | W | 978 | A | N9-C4-C5 | 5.88 | 108.15 | 105.80 |
| 31 | W | 1180 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 154 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 384 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 459 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 637 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 1027 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 1243 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 1585 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 31 | W | 67 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 31 | W | 703 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 31 | W | 1266 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 31 | W | 1271 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 31 | W | 1434 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 94 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 436 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 1 | A | 1700 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 1 | A | 1734 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 2091 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 2330 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 2447 | A | C4-C5-N7 | -5.88 | 107.76 | 110.70 |
| 1 | A | 2482 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 31 | W | 117 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 31 | W | 474 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 31 | W | 568 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 1 | A | 6 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 519 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 2507 | A | C8-N9-C4 | 5.88 | 108.15 | 105.80 |
| 2 | B | 56 | A | N3-C4-N9 | 5.88 | 132.10 | 127.40 |
| 31 | W | 371 | A | C4-C5-C6 | 5.88 | 119.94 | 117.00 |
| 1 | A | 5 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 1008 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 1697 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 1743 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 1850 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 2357 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 31 | W | 254 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 31 | W | 382 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 31 | W | 504 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 31 | W | 768 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 31 | W | 1092 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 314 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 364 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 1179 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 1230 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 1405 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 1 | A | 1540 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 1721 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 2042 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 2498 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 2782 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 2834 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 2 | B | 39 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 31 | W | 240 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 31 | W | 281 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 31 | W | 452 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 31 | W | 679 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 31 | W | 947 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 31 | W | 959 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 31 | W | 1259 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 974 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 993 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 1266 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 1838 | A | N3-C4-N9 | 5.87 | 132.10 | 127.40 |
| 1 | A | 1895 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 1 | A | 2661 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 958 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 1074 | A | C4-C5-C6 | 5.87 | 119.93 | 117.00 |
| 1 | A | 1542 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 2060 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 2767 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 2804 | A | C4-C5-C6 | 5.87 | 119.93 | 117.00 |
| 31 | W | 975 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 31 | W | 1245 | A | C4-C5-C6 | 5.87 | 119.93 | 117.00 |
| 31 | W | 1327 | A | C4-C5-C6 | 5.87 | 119.94 | 117.00 |
| 1 | A | 333 | A | C4-C5-C6 | 5.87 | 119.93 | 117.00 |
| 1 | A | 412 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 1 | A | 475 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 1 | A | 876 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 1 | A | 1532 | A | C4-C5-C6 | 5.87 | 119.93 | 117.00 |
| 1 | A | 1746 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 31 | W | 672 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 1113 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 2629 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 1 | A | 2778 | A | N9-C4-C5 | 5.87 | 108.15 | 105.80 |
| 2 | B | 44 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 31 | W | 53 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 31 | W | 831 | A | C4-C5-C6 | 5.87 | 119.93 | 117.00 |
| 31 | W | 1115 | A | N3-C4-N9 | 5.87 | 132.09 | 127.40 |
| 31 | W | 1257 | A | C8-N9-C4 | 5.87 | 108.15 | 105.80 |
| 1 | A | 10 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 202 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 220 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 388 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 428 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 894 | A | N9-C4-C5 | 5.86 | 108.14 | 105.80 |
| 1 | A | 1014 | A | C8-N9-C4 | 5.86 | 108.15 | 105.80 |
| 1 | A | 1020 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 2059 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 31 | W | 57 | A | C4-C5-N7 | -5.86 | 107.77 | 110.70 |
| 31 | W | 120 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 31 | W | 874 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 678 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 31 | W | 287 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 31 | W | 1248 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 125 | A | N9-C4-C5 | 5.86 | 108.14 | 105.80 |
| 1 | A | 198 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 476 | A | N9-C4-C5 | 5.86 | 108.14 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 618 | A | C4-C5-N7 | -5.86 | 107.77 | 110.70 |
| 1 | A | 786 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 1036 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 1335 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 2477 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 1 | A | 2477 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 2673 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 31 | W | 947 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 31 | W | 988 | A | C4-C5-N7 | -5.86 | 107.77 | 110.70 |
| 31 | W | 1103 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 31 | W | 1437 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 281 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 622 | A | N9-C4-C5 | 5.86 | 108.14 | 105.80 |
| 1 | A | 677 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 1034 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 1142 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 2670 | A | N9-C4-C5 | 5.86 | 108.14 | 105.80 |
| 31 | W | 266 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 1 | A | 339 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 2924 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 2 | B | 64 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 31 | W | 129 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 31 | W | 306 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 31 | W | 333 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 31 | W | 440 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 31 | W | 1077 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 31 | W | 1451 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 993 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 1189 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 1308 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 1 | A | 1312 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 1381 | A | N3-C4-N9 | 5.86 | 132.09 | 127.40 |
| 1 | A | 1606 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 1 | A | 2447 | A | C8-N9-C4 | 5.86 | 108.14 | 105.80 |
| 31 | W | 67 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 31 | W | 333 | A | C4-C5-C6 | 5.86 | 119.93 | 117.00 |
| 1 | A | 199 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 1 | A | 765 | A | C4-C5-N7 | -5.85 | 107.77 | 110.70 |
| 1 | A | 925 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 31 | W | 440 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 64 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 1 | A | 179 | A | N9-C4-C5 | 5.85 | 108.14 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 302 | A | N9-C4-C5 | 5.85 | 108.14 | 105.80 |
| 1 | A | 758 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 1 | A | 821 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 1381 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 1 | A | 1982 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 2000 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 1 | A | 2505 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 31 | W | 690 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 31 | W | 928 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 31 | W | 1342 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 548 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 1 | A | 1445 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 1524 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 1648 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 1 | A | 2464 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 31 | W | 485 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 31 | W | 507 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 31 | W | 684 | A | C4-C5-C6 | 5.85 | 119.93 | 117.00 |
| 31 | W | 969 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 31 | W | 1121 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 84 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 179 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 2643 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 31 | W | 31 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 31 | W | 190 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 31 | W | 460 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 31 | W | 758 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 31 | W | 1502 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 51 | y | 44 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 73 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 281 | A | N9-C4-C5 | 5.85 | 108.14 | 105.80 |
| 1 | A | 835 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 1142 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 2062 | A | N9-C4-C5 | 5.85 | 108.14 | 105.80 |
| 1 | A | 2455 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 2526 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 2590 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 2807 | A | C4-C5-N7 | -5.85 | 107.78 | 110.70 |
| 31 | W | 314 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 108 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 1 | A | 770 | A | N3-C4-N9 | 5.85 | 132.08 | 127.40 |
| 1 | A | 1046 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1473 | A | C4-C5-N7 | -5.85 | 107.78 | 110.70 |
| 1 | A | 1593 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 31 | W | 757 | A | C8-N9-C4 | 5.85 | 108.14 | 105.80 |
| 31 | W | 762 | A | C4-C5-C6 | 5.85 | 119.92 | 117.00 |
| 1 | A | 139 | A | N3-C4-N9 | 5.84 | 132.08 | 127.40 |
| 1 | A | 835 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 1802 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 2052 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 31 | W | 491 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 1034 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 2303 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 2750 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 2 | B | 25 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 281 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 390 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 126 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 216 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 274 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 882 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 1277 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 2071 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 258 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 31 | W | 786 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 51 | y | 44 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 1 | A | 279 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 1097 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 1210 | A | N9-C4-C5 | 5.84 | 108.14 | 105.80 |
| 1 | A | 1580 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 1918 | A | C4-C5-N7 | -5.84 | 107.78 | 110.70 |
| 2 | B | 55 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 31 | W | 335 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 31 | W | 372 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 405 | A | C5-C6-N1 | 5.84 | 120.62 | 117.70 |
| 31 | W | 542 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 725 | A | N9-C4-C5 | 5.84 | 108.14 | 105.80 |
| 31 | W | 757 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 1405 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 31 | W | 1503 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 501 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 553 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 908 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 1 | A | 2479 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 1 | A | 659 | A | C8-N9-C4 | 5.84 | 108.13 | 105.80 |
| 1 | A | 782 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 1520 | A | C8-N9-C4 | 5.84 | 108.13 | 105.80 |
| 1 | A | 2417 | A | C8-N9-C4 | 5.84 | 108.13 | 105.80 |
| 31 | W | 12 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 31 | W | 28 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 232 | A | N9-C4-C5 | 5.84 | 108.13 | 105.80 |
| 31 | W | 757 | A | N3-C4-N9 | 5.84 | 132.07 | 127.40 |
| 31 | W | 1359 | A | C4-C5-C6 | 5.84 | 119.92 | 117.00 |
| 31 | W | 1384 | A | C8-N9-C4 | 5.84 | 108.14 | 105.80 |
| 1 | A | 1465 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 31 | W | 801 | A | N3-C4-N9 | 5.83 | 132.07 | 127.40 |
| 31 | W | 945 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 1 | A | 139 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 247 | A | N3-C4-N9 | 5.83 | 132.07 | 127.40 |
| 1 | A | 1398 | A | C5-C6-N1 | 5.83 | 120.62 | 117.70 |
| 1 | A | 1941 | A | N9-C4-C5 | 5.83 | 108.13 | 105.80 |
| 1 | A | 2421 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 2777 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 31 | W | 62 | A | N3-C4-N9 | 5.83 | 132.07 | 127.40 |
| 31 | W | 170 | A | N9-C4-C5 | 5.83 | 108.13 | 105.80 |
| 1 | A | 183 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 479 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 867 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 894 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 957 | A | N9-C4-C5 | 5.83 | 108.13 | 105.80 |
| 1 | A | 1224 | A | N3-C4-N9 | 5.83 | 132.07 | 127.40 |
| 1 | A | 1967 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 1 | A | 2042 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 1 | A | 2362 | A | N3-C4-N9 | 5.83 | 132.07 | 127.40 |
| 2 | B | 37 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 2 | B | 105 | A | N3-C4-N9 | 5.83 | 132.07 | 127.40 |
| 31 | W | 190 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 31 | W | 1225 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 31 | W | 1254 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 31 | W | 1257 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 1296 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 229 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 337 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 935 | A | N9-C4-C5 | 5.83 | 108.13 | 105.80 |
| 1 | A | 1115 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 31 | W | 459 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 738 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 144 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 619 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 1047 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 2276 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 1 | A | 2683 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 2770 | A | C4-C5-C6 | 5.83 | 119.92 | 117.00 |
| 1 | A | 2869 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 463 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 923 | A | C4-C5-N7 | -5.83 | 107.79 | 110.70 |
| 31 | W | 968 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 1185 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 1197 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 1320 | A | C4-C5-N7 | -5.83 | 107.79 | 110.70 |
| 1 | A | 273 | A | C4-C5-N7 | -5.83 | 107.79 | 110.70 |
| 1 | A | 653 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 692 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 746 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 1066 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 1483 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 1 | A | 2658 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 31 | W | 582 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 1090 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 31 | W | 1200 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 206 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 222 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 436 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 821 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 1583 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 1 | A | 2900 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 2919 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 2 | B | 102 | A | C8-N9-C4 | 5.83 | 108.13 | 105.80 |
| 31 | W | 618 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 879 | A | N3-C4-N9 | 5.83 | 132.06 | 127.40 |
| 31 | W | 1111 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 31 | W | 1270 | A | C4-C5-C6 | 5.83 | 119.91 | 117.00 |
| 1 | A | 110 | A | C4-C5-N7 | -5.82 | 107.79 | 110.70 |
| 1 | A | 176 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 260 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 322 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 477 | A | N9-C4-C5 | 5.82 | 108.13 | 105.80 |
| 1 | A | 486 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1464 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 1615 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 1 | A | 1722 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 1 | A | 2030 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 31 | W | 475 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 31 | W | 581 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 31 | W | 1176 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 31 | W | 491 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 31 | W | 541 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 1 | A | 314 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 470 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 475 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 1 | A | 782 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 1243 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 1679 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 2 | B | 50 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 2 | B | 97 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 31 | W | 31 | A | C4-C5-N7 | -5.82 | 107.79 | 110.70 |
| 31 | W | 352 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 31 | W | 542 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 31 | W | 870 | A | C4-C5-N7 | -5.82 | 107.79 | 110.70 |
| 31 | W | 883 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 31 | W | 978 | A | N3-C4-N9 | 5.82 | 132.06 | 127.40 |
| 1 | A | 678 | A | N9-C4-C5 | 5.82 | 108.13 | 105.80 |
| 1 | A | 156 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 236 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 504 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 2383 | A | C4-C5-N7 | -5.82 | 107.79 | 110.70 |
| 1 | A | 2547 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 2875 | A | N3-C4-N9 | 5.82 | 132.05 | 127.40 |
| 31 | W | 1386 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 210 | A | N3-C4-N9 | 5.82 | 132.05 | 127.40 |
| 1 | A | 389 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 504 | A | N9-C4-C5 | 5.82 | 108.13 | 105.80 |
| 1 | A | 770 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 1 | A | 1224 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 1791 | A | N3-C4-N9 | 5.82 | 132.05 | 127.40 |
| 1 | A | 1815 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |
| 1 | A | 1989 | A | N3-C4-N9 | 5.82 | 132.05 | 127.40 |
| 1 | A | 2262 | A | C4-C5-N7 | -5.82 | 107.79 | 110.70 |
| 1 | A | 2601 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 31 | W | 296 | A | C8-N9-C4 | 5.82 | 108.13 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 422 | A | C4-C5-C6 | 5.82 | 119.91 | 117.00 |
| 31 | W | 1260 | A | C4-C5-N7 | -5.82 | 107.79 | 110.70 |
| 1 | A | 178 | A | N9-C4-C5 | 5.81 | 108.13 | 105.80 |
| 1 | A | 342 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 490 | A | C8-N9-C4 | 5.81 | 108.13 | 105.80 |
| 1 | A | 1197 | A | C4-C5-C6 | 5.81 | 119.91 | 117.00 |
| 1 | A | 1346 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 1918 | A | C8-N9-C4 | 5.81 | 108.13 | 105.80 |
| 1 | A | 2000 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 2463 | A | N9-C4-C5 | 5.81 | 108.13 | 105.80 |
| 31 | W | 504 | A | C8-N9-C4 | 5.81 | 108.13 | 105.80 |
| 31 | W | 581 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 1456 | A | C4-C5-C6 | 5.81 | 119.91 | 117.00 |
| 1 | A | 44 | A | N9-C4-C5 | 5.81 | 108.12 | 105.80 |
| 1 | A | 125 | A | C4-C5-N7 | -5.81 | 107.79 | 110.70 |
| 1 | A | 1130 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 1308 | A | C4-C5-C6 | 5.81 | 119.91 | 117.00 |
| 1 | A | 1677 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 1722 | A | C4-C5-C6 | 5.81 | 119.91 | 117.00 |
| 1 | A | 1802 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 296 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 421 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 1008 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 1417 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 1 | A | 1672 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 1 | A | 2365 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 1 | A | 618 | A | C4-C5-C6 | 5.81 | 119.91 | 117.00 |
| 1 | A | 1210 | A | C4-C5-N7 | -5.81 | 107.80 | 110.70 |
| 1 | A | 1929 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 2091 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 271 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 346 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 31 | W | 592 | A | C4-C5-C6 | 5.81 | 119.91 | 117.00 |
| 31 | W | 837 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 979 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 1369 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 1 | A | 84 | A | N3-C4-N9 | 5.81 | 132.04 | 127.40 |
| 1 | A | 110 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 1 | A | 1845 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 1 | A | 2810 | A | C4-C5-C6 | 5.81 | 119.90 | 117.00 |
| 2 | B | 114 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 31 | W | 672 | A | C4-C5-C6 | 5.81 | 119.90 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1048 | A | N3-C4-N9 | 5.81 | 132.05 | 127.40 |
| 31 | W | 1502 | A | C4-C5-N7 | -5.81 | 107.80 | 110.70 |
| 1 | A | 374 | A | C4-C5-N7 | -5.81 | 107.80 | 110.70 |
| 1 | A | 1313 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 1 | A | 1967 | A | N3-C4-N9 | 5.81 | 132.04 | 127.40 |
| 1 | A | 2315 | A | C4-C5-N7 | -5.81 | 107.80 | 110.70 |
| 1 | A | 2390 | A | N3-C4-N9 | 5.81 | 132.04 | 127.40 |
| 31 | W | 189 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 31 | W | 206 | A | C8-N9-C4 | 5.81 | 108.12 | 105.80 |
| 31 | W | 452 | A | C4-C5-C6 | 5.81 | 119.90 | 117.00 |
| 31 | W | 506 | A | C4-C5-C6 | 5.81 | 119.90 | 117.00 |
| 31 | W | 704 | A | C4-C5-C6 | 5.81 | 119.90 | 117.00 |
| 1 | A | 325 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 449 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 727 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 746 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1014 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1116 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1210 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1335 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1499 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1965 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 2026 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 1 | A | 2902 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 52 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 189 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 209 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 211 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 389 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 1017 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 1 | A | 154 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 268 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 1 | A | 667 | A | N9-C4-C5 | 5.80 | 108.12 | 105.80 |
| 1 | A | 1592 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1734 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 1 | A | 2295 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 202 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 51 | 1 | 44 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 1 | A | 646 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1723 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 2860 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 204 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 882 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 31 | W | 1054 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 64 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 1 | A | 448 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 1 | A | 646 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 1 | A | 1302 | A | C4-C5-N7 | -5.80 | 107.80 | 110.70 |
| 1 | A | 1812 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 1 | A | 2837 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 2 | B | 102 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 170 | A | C4-C5-N7 | -5.80 | 107.80 | 110.70 |
| 31 | W | 899 | A | N9-C4-C5 | 5.80 | 108.12 | 105.80 |
| 31 | W | 1031 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 1210 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1406 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 31 | W | 371 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 372 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 978 | A | C4-C5-N7 | -5.80 | 107.80 | 110.70 |
| 1 | A | 94 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 117 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 274 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 1 | A | 770 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 1 | A | 1025 | A | N9-C4-C5 | 5.80 | 108.12 | 105.80 |
| 1 | A | 1287 | A | C4-C5-N7 | -5.80 | 107.80 | 110.70 |
| 1 | A | 1423 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1699 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 1 | A | 1724 | A | N3-C4-N9 | 5.80 | 132.04 | 127.40 |
| 31 | W | 278 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 31 | W | 771 | A | C8-N9-C4 | 5.80 | 108.12 | 105.80 |
| 31 | W | 791 | A | C4-C5-C6 | 5.80 | 119.90 | 117.00 |
| 31 | W | 1236 | A | N9-C4-C5 | 5.80 | 108.12 | 105.80 |
| 1 | A | 893 | A | N3-C4-N9 | 5.79 | 132.04 | 127.40 |
| 1 | A | 1553 | A | C4-C5-N7 | -5.79 | 107.80 | 110.70 |
| 31 | W | 1456 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 31 | W | 1503 | A | C4-C5-C6 | 5.79 | 119.90 | 117.00 |
| 1 | A | 124 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 418 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 1585 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 2315 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 31 | W | 204 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 31 | W | 459 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 31 | W | 1213 | A | C4-C5-N7 | -5.79 | 107.80 | 110.70 |
| 31 | W | 1296 | A | C4-C5-C6 | 5.79 | 119.90 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1488 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 179 | A | C4-C5-N7 | -5.79 | 107.80 | 110.70 |
| 1 | A | 418 | A | C4-C5-C6 | 5.79 | 119.90 | 117.00 |
| 1 | A | 828 | A | C4-C5-C6 | 5.79 | 119.90 | 117.00 |
| 1 | A | 1179 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 1844 | A | N9-C4-C5 | 5.79 | 108.12 | 105.80 |
| 1 | A | 2805 | A | C4-C5-N7 | -5.79 | 107.80 | 110.70 |
| 1 | A | 2837 | A | C4-C5-N7 | -5.79 | 107.80 | 110.70 |
| 31 | W | 658 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 31 | W | 1178 | A | N9-C4-C5 | 5.79 | 108.12 | 105.80 |
| 31 | W | 1247 | A | C4-C5-N7 | -5.79 | 107.81 | 110.70 |
| 31 | W | 1513 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 1 | A | 560 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 1 | A | 619 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 333 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 389 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 1 | A | 1221 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 1534 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 1966 | A | C8-N9-C4 | 5.79 | 108.11 | 105.80 |
| 1 | A | 2661 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 2767 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 1 | A | 2912 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 31 | W | 496 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 31 | W | 684 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 31 | W | 737 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 31 | W | 786 | A | C8-N9-C4 | 5.79 | 108.12 | 105.80 |
| 1 | A | 449 | A | C4-C5-N7 | -5.79 | 107.81 | 110.70 |
| 1 | A | 1123 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 2837 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 51 | 1 | 37 | A | N7-C8-N9 | -5.79 | 110.91 | 113.80 |
| 1 | A | 6 | A | C8-N9-C4 | 5.79 | 108.11 | 105.80 |
| 1 | A | 1141 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 1 | A | 1504 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 1 | A | 1713 | A | C8-N9-C4 | 5.79 | 108.11 | 105.80 |
| 1 | A | 2594 | A | C4-C5-N7 | -5.79 | 107.81 | 110.70 |
| 2 | B | 113 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 31 | W | 53 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 31 | W | 118 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 31 | W | 290 | A | N3-C4-N9 | 5.79 | 132.03 | 127.40 |
| 31 | W | 541 | A | C4-C5-C6 | 5.79 | 119.89 | 117.00 |
| 31 | W | 649 | A | C8-N9-C4 | 5.79 | 108.11 | 105.80 |
| 31 | W | 925 | A | C8-N9-C4 | 5.79 | 108.11 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1270 | A | C8-N9-C4 | 5.79 | 108.11 | 105.80 |
| 31 | W | 1320 | A | N9-C4-C5 | 5.79 | 108.11 | 105.80 |
| 1 | A | 28 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 1 | A | 274 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 1141 | A | C4-C5-N7 | -5.78 | 107.81 | 110.70 |
| 1 | A | 1202 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 1 | A | 1981 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 1 | A | 2740 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 31 | W | 160 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 31 | W | 306 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 31 | W | 730 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 1261 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 31 | W | 1479 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 1 | A | 1305 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 31 | W | 440 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 456 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 768 | A | C4-C5-N7 | -5.78 | 107.81 | 110.70 |
| 1 | A | 210 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 1 | A | 1244 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 1308 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 1555 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 2049 | A | N9-C4-C5 | 5.78 | 108.11 | 105.80 |
| 1 | A | 2303 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 2307 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 2480 | A | N3-C4-N9 | 5.78 | 132.03 | 127.40 |
| 1 | A | 2923 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 31 | W | 569 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 1120 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 51 | 1 | 14 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 1 | A | 418 | A | C4-C5-N7 | -5.78 | 107.81 | 110.70 |
| 1 | A | 1325 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 1 | A | 1831 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 2902 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 2594 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 2787 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 2 | B | 76 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 302 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 1 | A | 318 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 582 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 667 | A | C4-C5-N7 | -5.78 | 107.81 | 110.70 |
| 1 | A | 1412 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 1760 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2357 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 1 | A | 2417 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 31 | W | 240 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 31 | W | 357 | A | C4-C5-N7 | -5.78 | 107.81 | 110.70 |
| 31 | W | 415 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 616 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 825 | A | N3-C4-N9 | 5.78 | 132.02 | 127.40 |
| 31 | W | 1513 | A | C4-C5-C6 | 5.78 | 119.89 | 117.00 |
| 31 | W | 1523 | A | C8-N9-C4 | 5.78 | 108.11 | 105.80 |
| 1 | A | 14 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 1 | A | 1942 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 31 | W | 170 | A | C4-C5-C6 | 5.77 | 119.89 | 117.00 |
| 31 | W | 1320 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 1 | A | 49 | A | C4-C5-C6 | 5.77 | 119.89 | 117.00 |
| 1 | A | 1026 | A | C4-C5-C6 | 5.77 | 119.89 | 117.00 |
| 1 | A | 1119 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 1 | A | 1473 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |
| 31 | W | 120 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 31 | W | 386 | A | C4-C5-C6 | 5.77 | 119.89 | 117.00 |
| 31 | W | 975 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 31 | W | 1166 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 1 | A | 646 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 1 | A | 847 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |
| 1 | A | 1036 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 1 | A | 1517 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 1 | A | 1788 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 31 | W | 1017 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 31 | W | 1386 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 1 | A | 219 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |
| 1 | A | 448 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 2480 | A | C4-C5-C6 | 5.77 | 119.89 | 117.00 |
| 31 | W | 423 | A | C4-C5-N7 | -5.77 | 107.81 | 110.70 |
| 31 | W | 532 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 31 | W | 1140 | A | N3-C4-N9 | 5.77 | 132.02 | 127.40 |
| 31 | W | 1451 | A | C4-C5-C6 | 5.77 | 119.89 | 117.00 |
| 1 | A | 584 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 1 | A | 658 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 978 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 1078 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |
| 1 | A | 1713 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 1957 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |
| 1 | A | 2383 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2762 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 2 | B | 27 | A | C4-C5-C6 | 5.77 | 119.88 | 117.00 |
| 2 | B | 55 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 31 | W | 463 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80 |
| 31 | W | 669 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 31 | W | 959 | A | C4-C5-N7 | -5.77 | 107.82 | 110.70 |
| 31 | W | 1502 | A | N9-C4-C5 | 5.77 | 108.11 | 105.80 |
| 1 | A | 561 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 1027 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 2845 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 31 | W | 501 | A | C4-C5-C6 | 5.77 | 119.88 | 117.00 |
| 31 | W | 690 | A | N3-C4-N9 | 5.77 | 132.01 | 127.40 |
| 1 | A | 699 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 1 | A | 752 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 1 | A | 888 | A | C4-C5-N7 | -5.76 | 107.82 | 110.70 |
| 1 | A | 1026 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 1 | A | 1149 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 1 | A | 1654 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 1 | A | 1815 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 2018 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 1 | A | 2782 | A | C4-C5-N7 | -5.76 | 107.82 | 110.70 |
| 31 | W | 234 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 31 | W | 1022 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 31 | W | 1512 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 1 | A | 1074 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 31 | W | 386 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 664 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 1048 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 31 | W | 1359 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 1 | A | 150 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 999 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 1 | A | 1142 | A | C8-N9-C4 | 5.76 | 108.11 | 105.80 |
| 1 | A | 1809 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 1818 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 1 | A | 2362 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 2455 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 31 | W | 206 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 31 | W | 206 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 816 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 31 | W | 1111 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 1248 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 166 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 373 | A | N9-C4-C5 | 5.76 | 108.10 | 105.80 |
| 1 | A | 388 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 957 | A | C4-C5-N7 | -5.76 | 107.82 | 110.70 |
| 1 | A | 999 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 2330 | A | C4-C5-N7 | -5.76 | 107.82 | 110.70 |
| 1 | A | 2594 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 1 | A | 2923 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 142 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 677 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 31 | W | 1185 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 31 | W | 1213 | A | N9-C4-C5 | 5.76 | 108.10 | 105.80 |
| 31 | W | 1245 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 2 | B | 51 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 31 | W | 31 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 236 | A | N3-C4-N9 | 5.76 | 132.01 | 127.40 |
| 31 | W | 306 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 31 | W | 1470 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 222 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 325 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 1 | A | 355 | A | N3-C4-N9 | 5.76 | 132.00 | 127.40 |
| 1 | A | 584 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 1 | A | 683 | A | N3-C4-N9 | 5.76 | 132.00 | 127.40 |
| 1 | A | 690 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 1 | A | 1131 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 1 | A | 1277 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 1 | A | 1277 | A | N3-C4-N9 | 5.76 | 132.00 | 127.40 |
| 1 | A | 1699 | A | C4-C5-C6 | 5.76 | 119.88 | 117.00 |
| 31 | W | 357 | A | N9-C4-C5 | 5.76 | 108.10 | 105.80 |
| 31 | W | 803 | A | N3-C4-N9 | 5.76 | 132.00 | 127.40 |
| 31 | W | 1115 | A | C8-N9-C4 | 5.76 | 108.10 | 105.80 |
| 31 | W | 1333 | A | C4-C5-N7 | -5.76 | 107.82 | 110.70 |
| 1 | A | 1141 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1417 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2673 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 1205 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 1434 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 166 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 1233 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1464 | A | C4-C5-N7 | -5.75 | 107.82 | 110.70 |
| 1 | A | 1789 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 2000 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2924 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 232 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 31 | W | 651 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 669 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 31 | W | 799 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 823 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 31 | W | 823 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 910 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 1077 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 31 | W | 1502 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 44 | A | C4-C5-N7 | -5.75 | 107.82 | 110.70 |
| 1 | A | 389 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 421 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 723 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 830 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 1078 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 1 | A | 1115 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 1654 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1914 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1948 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1967 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2091 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2356 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2440 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 18 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 31 | W | 329 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 367 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 31 | W | 522 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 838 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 1225 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 1297 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 198 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 1809 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2694 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 258 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 1 | A | 49 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 428 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 436 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 763 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1347 | A | C4-C5-N7 | -5.75 | 107.83 | 110.70 |
| 1 | A | 1412 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 2315 | A | C4-C5-C6 | 5.75 | 119.87 | 117.00 |
| 1 | A | 2329 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2375 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 1 | A | 2762 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 1 | A | 2876 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 67 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 210 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 228 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 31 | W | 367 | A | C4-C5-C6 | 5.75 | 119.88 | 117.00 |
| 31 | W | 1102 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 572 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1593 | A | N3-C4-N9 | 5.75 | 132.00 | 127.40 |
| 1 | A | 2673 | A | C4-C5-N7 | -5.75 | 107.83 | 110.70 |
| 1 | A | 2908 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 10 | A | C4-C5-C6 | 5.75 | 119.87 | 117.00 |
| 31 | W | 811 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 1443 | A | C4-C5-C6 | 5.75 | 119.87 | 117.00 |
| 1 | A | 161 | A | C4-C5-N7 | -5.75 | 107.83 | 110.70 |
| 1 | A | 173 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 1161 | A | C4-C5-N7 | -5.75 | 107.83 | 110.70 |
| 1 | A | 1517 | A | C4-C5-C6 | 5.75 | 119.87 | 117.00 |
| 1 | A | 2276 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 31 | W | 142 | A | C4-C5-C6 | 5.75 | 119.87 | 117.00 |
| 31 | W | 519 | A | N9-C4-C5 | 5.75 | 108.10 | 105.80 |
| 31 | W | 1256 | A | C8-N9-C4 | 5.75 | 108.10 | 105.80 |
| 1 | A | 28 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 161 | A | C4-C5-C6 | 5.74 | 119.87 | 117.00 |
| 1 | A | 724 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 1601 | A | N3-C4-N9 | 5.74 | 132.00 | 127.40 |
| 1 | A | 1809 | A | N3-C4-N9 | 5.74 | 132.00 | 127.40 |
| 1 | A | 2571 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 2618 | A | C4-C5-N7 | -5.74 | 107.83 | 110.70 |
| 1 | A | 2862 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 31 | W | 228 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 31 | W | 924 | A | N3-C4-N9 | 5.74 | 132.00 | 127.40 |
| 31 | W | 1443 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 702 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 1026 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 5 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 67 | A | C4-C5-N7 | -5.74 | 107.83 | 110.70 |
| 1 | A | 117 | A | N9-C4-C5 | 5.74 | 108.10 | 105.80 |
| 1 | A | 171 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 717 | A | C4-C5-N7 | -5.74 | 107.83 | 110.70 |
| 1 | A | 1302 | A | C4-C5-C6 | 5.74 | 119.87 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1323 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 2317 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 2686 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 31 | W | 506 | A | C4-C5-N7 | -5.74 | 107.83 | 110.70 |
| 31 | W | 704 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 31 | W | 974 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 31 | W | 1284 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 183 | A | N9-C4-C5 | 5.74 | 108.09 | 105.80 |
| 1 | A | 244 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 1 | A | 922 | A | N9-C4-C5 | 5.74 | 108.09 | 105.80 |
| 1 | A | 2447 | A | N9-C4-C5 | 5.74 | 108.09 | 105.80 |
| 31 | W | 35 | A | C8-N9-C4 | 5.74 | 108.10 | 105.80 |
| 31 | W | 1419 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 1046 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 1434 | A | C4-C5-C6 | 5.74 | 119.87 | 117.00 |
| 31 | W | 57 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 31 | W | 506 | A | N9-C4-C5 | 5.74 | 108.09 | 105.80 |
| 31 | W | 605 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 31 | W | 837 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 1 | A | 140 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 1 | A | 847 | A | C4-C5-N7 | -5.74 | 107.83 | 110.70 |
| 1 | A | 922 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 1123 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 1 | A | 1375 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 1 | A | 1434 | A | C4-C5-N7 | -5.74 | 107.83 | 110.70 |
| 1 | A | 1465 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 1 | A | 1919 | A | N9-C4-C5 | 5.74 | 108.09 | 105.80 |
| 1 | A | 2071 | A | N9-C4-C5 | 5.74 | 108.09 | 105.80 |
| 1 | A | 2405 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 31 | W | 202 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 31 | W | 456 | A | N3-C4-N9 | 5.74 | 131.99 | 127.40 |
| 31 | W | 1022 | A | C8-N9-C4 | 5.74 | 108.09 | 105.80 |
| 31 | W | 1342 | A | C4-C5-C6 | 5.74 | 119.87 | 117.00 |
| 31 | W | 1386 | A | C4-C5-C6 | 5.74 | 119.87 | 117.00 |
| 1 | A | 965 | A | N3-C4-N9 | 5.73 | 131.99 | 127.40 |
| 1 | A | 1119 | A | C4-C5-C6 | 5.73 | 119.87 | 117.00 |
| 1 | A | 1119 | A | C4-C5-N7 | -5.73 | 107.83 | 110.70 |
| 1 | A | 1340 | A | N9-C4-C5 | 5.73 | 108.09 | 105.80 |
| 1 | A | 2595 | A | N3-C4-N9 | 5.73 | 131.99 | 127.40 |
| 1 | A | 449 | A | N9-C4-C5 | 5.73 | 108.09 | 105.80 |
| 1 | A | 717 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 840 | A | C5-C6-N1 | 5.73 | 120.57 | 117.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1061 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 1540 | A | N3-C4-N9 | 5.73 | 131.99 | 127.40 |
| 1 | A | 1929 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 2455 | A | N3-C4-N9 | 5.73 | 131.99 | 127.40 |
| 1 | A | 2876 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 2 | B | 17 | A | C4-C5-C6 | 5.73 | 119.87 | 117.00 |
| 31 | W | 211 | A | C4-C5-C6 | 5.73 | 119.87 | 117.00 |
| 31 | W | 947 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 31 | W | 1488 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 31 | W | 1529 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 51 | y | 14 | A | C4-C5-C6 | 5.73 | 119.87 | 117.00 |
| 1 | A | 1046 | A | C4-C5-N7 | -5.73 | 107.83 | 110.70 |
| 1 | A | 1094 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 1179 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 2700 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 31 | W | 474 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 31 | W | 519 | A | N3-C4-N9 | 5.73 | 131.99 | 127.40 |
| 1 | A | 736 | A | C5-C6-N1 | 5.73 | 120.56 | 117.70 |
| 1 | A | 1812 | A | C4-C5-N7 | -5.73 | 107.84 | 110.70 |
| 31 | W | 1006 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 206 | A | N9-C4-C5 | 5.73 | 108.09 | 105.80 |
| 1 | A | 219 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 1 | A | 345 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 1 | A | 572 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 1 | A | 740 | A | C4-C5-N7 | -5.73 | 107.84 | 110.70 |
| 1 | A | 1025 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 31 | W | 81 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 31 | W | 159 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 31 | W | 357 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 31 | W | 1490 | A | C8-N9-C4 | 5.73 | 108.09 | 105.80 |
| 1 | A | 543 | A | N9-C4-C5 | 5.73 | 108.09 | 105.80 |
| 1 | A | 888 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 1 | A | 2262 | A | C4-C5-C6 | 5.73 | 119.86 | 117.00 |
| 1 | A | 2571 | A | N9-C4-C5 | 5.73 | 108.09 | 105.80 |
| 2 | B | 18 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 31 | W | 170 | A | N3-C4-N9 | 5.73 | 131.98 | 127.40 |
| 31 | W | 266 | A | N9-C4-C5 | 5.73 | 108.09 | 105.80 |
| 1 | A | 830 | A | N9-C4-C5 | 5.72 | 108.09 | 105.80 |
| 1 | A | 987 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 1314 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 1 | A | 1998 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 2835 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|------------|-------|-------------|----------|
| 31 | W | 988 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 525 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 1287 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 1 | A | 1627 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 1930 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 2030 | A | N9-C4-C5 | 5.72 | 108.09 | 105.80 |
| 2 | B | 27 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 31 | W | 352 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 31 | W | 500 | A | C4-C5-N7 | -5.72 | 107.84 | 110.70 |
| 31 | W | 506 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 31 | W | 910 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 31 | W | 928 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 1 | A | 41 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 507 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 524 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 31 | W | 287 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 31 | W | 618 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 31 | W | 1541 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 1 | A | 281 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 1 | A | 548 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 786 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 1173 | A | N9-C1'-C2' | 5.72 | 121.44 | 114.00 |
| 1 | A | 1189 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 1 | A | 1966 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 2606 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 31 | W | 107 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 31 | W | 321 | A | N3-C4-N9 | 5.72 | 131.98 | 127.40 |
| 31 | W | 456 | A | C4-C5-N7 | -5.72 | 107.84 | 110.70 |
| 31 | W | 1298 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 51 | y | 58 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 1 | A | 622 | A | C4-C5-N7 | -5.72 | 107.84 | 110.70 |
| 1 | A | 1287 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 1686 | A | C4-C5-N7 | -5.72 | 107.84 | 110.70 |
| 1 | A | 1945 | A | N9-C4-C5 | 5.72 | 108.09 | 105.80 |
| 31 | W | 508 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 31 | W | 1197 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 991 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 2340 | A | N3-C4-N9 | 5.72 | 131.97 | 127.40 |
| 31 | W | 203 | A | N9-C4-C5 | 5.72 | 108.09 | 105.80 |
| 31 | W | 924 | A | C8-N9-C4 | 5.72 | 108.09 | 105.80 |
| 31 | W | 1090 | A | N3-C4-N9 | 5.72 | 131.97 | 127.40 |
| 31 | W | 1178 | A | N3-C4-N9 | 5.72 | 131.97 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1207 | A | C4-C5-C6 | 5.72 | 119.86 | 117.00 |
| 1 | A | 278 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 1 | A | 866 | A | C8-N9-C4 | 5.71 | 108.09 | 105.80 |
| 1 | A | 1025 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 1 | A | 1144 | A | N9-C4-C5 | 5.71 | 108.09 | 105.80 |
| 1 | A | 1149 | A | C4-C5-C6 | 5.71 | 119.86 | 117.00 |
| 1 | A | 1287 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 1580 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2454 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2643 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2810 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 2819 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 189 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 31 | W | 438 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 737 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 1188 | A | C8-N9-C4 | 5.71 | 108.09 | 105.80 |
| 31 | W | 1210 | A | C8-N9-C4 | 5.71 | 108.09 | 105.80 |
| 31 | W | 1417 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 199 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 225 | A | C4-C5-C6 | 5.71 | 119.86 | 117.00 |
| 1 | A | 322 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2006 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 202 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 321 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 1 | A | 216 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 224 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 1175 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 1601 | A | C4-C5-C6 | 5.71 | 119.86 | 117.00 |
| 1 | A | 1965 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2080 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2750 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 31 | W | 159 | A | C4-C5-C6 | 5.71 | 119.86 | 117.00 |
| 31 | W | 460 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 31 | W | 886 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 31 | W | 1077 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 1213 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 1271 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 31 | W | 1422 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 1244 | A | C4-C5-C6 | 5.71 | 119.86 | 117.00 |
| 1 | A | 1947 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2482 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 2498 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 2 | B | 71 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 31 | W | 491 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 31 | W | 737 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 1 | A | 1483 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 1 | A | 1838 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 1 | A | 1948 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 1966 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 2526 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 2819 | A | C4-C5-C6 | 5.71 | 119.85 | 117.00 |
| 31 | W | 10 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 31 | W | 10 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 329 | A | C4-C5-N7 | -5.71 | 107.84 | 110.70 |
| 31 | W | 422 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 31 | W | 923 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 1466 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 84 | A | C4-C5-C6 | 5.71 | 119.85 | 117.00 |
| 1 | A | 236 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 322 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 456 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 1 | A | 549 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 561 | A | C4-C5-C6 | 5.71 | 119.85 | 117.00 |
| 1 | A | 828 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 1461 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 1477 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 1 | A | 1579 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 1809 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 1 | A | 2088 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 2356 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 1 | A | 2364 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 1 | A | 2387 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 452 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 31 | W | 776 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 870 | A | N3-C4-N9 | 5.71 | 131.97 | 127.40 |
| 31 | W | 1050 | A | C4-C5-C6 | 5.71 | 119.85 | 117.00 |
| 31 | W | 1111 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 1 | A | 1254 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 1 | A | 1945 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |
| 1 | A | 2296 | A | N3-C4-N9 | 5.71 | 131.96 | 127.40 |
| 1 | A | 2507 | A | N3-C4-N9 | 5.71 | 131.96 | 127.40 |
| 31 | W | 28 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 31 | W | 208 | A | N3-C4-N9 | 5.71 | 131.96 | 127.40 |
| 31 | W | 508 | A | C4-C5-N7 | -5.71 | 107.85 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 651 | A | C8-N9-C4 | 5.71 | 108.08 | 105.80 |
| 31 | W | 1417 | A | N9-C4-C5 | 5.71 | 108.08 | 105.80 |
| 31 | W | 1512 | A | C4-C5-C6 | 5.71 | 119.85 | 117.00 |
| 1 | A | 475 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 1 | A | 1084 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 1119 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 1504 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 1638 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 2307 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 1 | A | 2315 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 2340 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 1 | A | 2480 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 2845 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 31 | W | 117 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 31 | W | 202 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 31 | W | 1358 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 847 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 2317 | A | N9-C4-C5 | 5.70 | 108.08 | 105.80 |
| 1 | A | 2779 | A | N9-C4-C5 | 5.70 | 108.08 | 105.80 |
| 2 | B | 17 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 736 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 1174 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 1 | A | 2686 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 31 | W | 401 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 31 | W | 1028 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 31 | W | 1147 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 1 | A | 67 | A | N9-C4-C5 | 5.70 | 108.08 | 105.80 |
| 1 | A | 456 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 1 | A | 519 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 1067 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 1 | A | 1161 | A | N9-C4-C5 | 5.70 | 108.08 | 105.80 |
| 1 | A | 2912 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 31 | W | 791 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 31 | W | 947 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 31 | W | 985 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 786 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 1326 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 1797 | A | C4-C5-N7 | -5.70 | 107.85 | 110.70 |
| 1 | A | 543 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |
| 1 | A | 910 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 1 | A | 1020 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 1 | A | 1679 | A | N3-C4-N9 | 5.70 | 131.96 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2296 | A | C4-C5-C6 | 5.70 | 119.85 | 117.00 |
| 1 | A | 2670 | A | C8-N9-C4 | 5.70 | 108.08 | 105.80 |
| 31 | W | 439 | A | N9-C4-C5 | 5.70 | 108.08 | 105.80 |
| 1 | A | 572 | A | C4-C5-C6 | 5.69 | 119.85 | 117.00 |
| 1 | A | 740 | A | N3-C4-N9 | 5.69 | 131.96 | 127.40 |
| 1 | A | 867 | A | N9-C4-C5 | 5.69 | 108.08 | 105.80 |
| 1 | A | 1284 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 1 | A | 1347 | A | C4-C5-C6 | 5.69 | 119.85 | 117.00 |
| 31 | W | 555 | A | N3-C4-N9 | 5.69 | 131.96 | 127.40 |
| 31 | W | 671 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 743 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 1004 | A | C4-C5-N7 | -5.69 | 107.85 | 110.70 |
| 1 | A | 811 | A | N9-C4-C5 | 5.69 | 108.08 | 105.80 |
| 1 | A | 829 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 1 | A | 1189 | A | C4-C5-N7 | -5.69 | 107.85 | 110.70 |
| 1 | A | 1305 | A | C4-C5-N7 | -5.69 | 107.85 | 110.70 |
| 1 | A | 2071 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 1 | A | 2276 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 31 | W | 423 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 460 | A | C4-C5-N7 | -5.69 | 107.85 | 110.70 |
| 31 | W | 568 | A | C4-C5-C6 | 5.69 | 119.85 | 117.00 |
| 31 | W | 886 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 1205 | A | C4-C5-C6 | 5.69 | 119.85 | 117.00 |
| 1 | A | 717 | A | N9-C4-C5 | 5.69 | 108.08 | 105.80 |
| 1 | A | 2907 | A | C4-C5-N7 | -5.69 | 107.86 | 110.70 |
| 31 | W | 544 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 31 | W | 969 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 31 | W | 1419 | A | C4-C5-C6 | 5.69 | 119.84 | 117.00 |
| 1 | A | 1144 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 1 | A | 1906 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 31 | W | 397 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 801 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 831 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 1 | A | 56 | A | C5-C6-N1 | 5.69 | 120.54 | 117.70 |
| 1 | A | 342 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 1 | A | 811 | A | C4-C5-C6 | 5.69 | 119.84 | 117.00 |
| 1 | A | 978 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 1 | A | 1426 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 1 | A | 1735 | A | C4-C5-N7 | -5.69 | 107.86 | 110.70 |
| 1 | A | 2088 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 1 | A | 2362 | A | C4-C5-N7 | -5.69 | 107.86 | 110.70 |
| 1 | A | 2381 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2826 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 94 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 438 | A | C8-N9-C4 | 5.69 | 108.08 | 105.80 |
| 31 | W | 959 | A | N9-C4-C5 | 5.69 | 108.08 | 105.80 |
| 31 | W | 1510 | A | C4-C5-N7 | -5.69 | 107.86 | 110.70 |
| 1 | A | 476 | A | C4-C5-C6 | 5.69 | 119.84 | 117.00 |
| 1 | A | 619 | A | C4-C5-C6 | 5.69 | 119.84 | 117.00 |
| 1 | A | 965 | A | C4-C5-C6 | 5.69 | 119.84 | 117.00 |
| 1 | A | 2463 | A | N3-C4-N9 | 5.69 | 131.95 | 127.40 |
| 1 | A | 2479 | A | C4-C5-C6 | 5.69 | 119.84 | 117.00 |
| 1 | A | 225 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 342 | A | C4-C5-C6 | 5.68 | 119.84 | 117.00 |
| 1 | A | 1021 | A | N3-C4-N9 | 5.68 | 131.95 | 127.40 |
| 1 | A | 1161 | A | C4-C5-C6 | 5.68 | 119.84 | 117.00 |
| 1 | A | 1914 | A | N3-C4-N9 | 5.68 | 131.95 | 127.40 |
| 1 | A | 1981 | A | N9-C4-C5 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2606 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2916 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 31 | W | 1197 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 1442 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 1 | A | 1175 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 1760 | A | N9-C4-C5 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2059 | A | N3-C4-N9 | 5.68 | 131.95 | 127.40 |
| 31 | W | 171 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 251 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 1252 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 31 | W | 1443 | A | N3-C4-N9 | 5.68 | 131.95 | 127.40 |
| 31 | W | 1528 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 732 | A | C5-C6-N1 | 5.68 | 120.54 | 117.70 |
| 1 | A | 1260 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 1 | A | 2006 | A | N9-C4-C5 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2479 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2542 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 31 | W | 282 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 302 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 1 | A | 1325 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 1 | A | 1593 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 1832 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 1 | A | 1838 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 31 | W | 232 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 31 | W | 501 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 31 | W | 690 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 31 | W | 1407 | A | C4-C5-C6 | 5.68 | 119.84 | 117.00 |
| 31 | W | 1466 | A | C4-C5-C6 | 5.68 | 119.84 | 117.00 |
| 1 | A | 125 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 31 | W | 1225 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 51 | y | 14 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 677 | A | C4-C5-C6 | 5.68 | 119.84 | 117.00 |
| 1 | A | 999 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 1 | A | 1361 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 1648 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2500 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 1 | A | 2618 | A | N9-C4-C5 | 5.68 | 108.07 | 105.80 |
| 2 | B | 44 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 195 | A | N9-C4-C5 | 5.68 | 108.07 | 105.80 |
| 31 | W | 202 | A | N9-C4-C5 | 5.68 | 108.07 | 105.80 |
| 31 | W | 210 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 31 | W | 672 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 777 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 801 | A | C4-C5-N7 | -5.68 | 107.86 | 110.70 |
| 31 | W | 974 | A | C8-N9-C4 | 5.68 | 108.07 | 105.80 |
| 31 | W | 1470 | A | N3-C4-N9 | 5.68 | 131.94 | 127.40 |
| 1 | A | 717 | A | N3-C4-N9 | 5.67 | 131.94 | 127.40 |
| 1 | A | 952 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 1047 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 1 | A | 1941 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 31 | W | 364 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 31 | W | 1065 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 31 | W | 1115 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 31 | W | 1254 | A | C4-C5-C6 | 5.67 | 119.84 | 117.00 |
| 1 | A | 1021 | A | N9-C4-C5 | 5.67 | 108.07 | 105.80 |
| 1 | A | 2658 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 31 | W | 1259 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 13 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 229 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 1130 | A | N9-C4-C5 | 5.67 | 108.07 | 105.80 |
| 1 | A | 2487 | U | C2'-C3'-O3' | -5.67 | 97.02 | 109.50 |
| 1 | A | 2511 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 2 | B | 18 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 31 | W | 713 | A | N3-C4-N9 | 5.67 | 131.94 | 127.40 |
| 31 | W | 1213 | A | C4-C5-C6 | 5.67 | 119.84 | 117.00 |
| 31 | W | 1419 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 575 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 1 | A | 622 | A | N3-C4-N9 | 5.67 | 131.94 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1326 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 31 | W | 592 | A | N3-C4-N9 | 5.67 | 131.94 | 127.40 |
| 1 | A | 140 | A | C4-C5-N7 | -5.67 | 107.87 | 110.70 |
| 1 | A | 781 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 1055 | A | C4-C5-N7 | -5.67 | 107.87 | 110.70 |
| 1 | A | 2315 | A | N9-C4-C5 | 5.67 | 108.07 | 105.80 |
| 31 | W | 170 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 31 | W | 189 | A | N9-C4-C5 | 5.67 | 108.07 | 105.80 |
| 31 | W | 581 | A | C4-C5-N7 | -5.67 | 107.86 | 110.70 |
| 1 | A | 178 | A | N3-C4-N9 | 5.67 | 131.93 | 127.40 |
| 1 | A | 345 | A | C4-C5-C6 | 5.67 | 119.83 | 117.00 |
| 1 | A | 1815 | A | N3-C4-N9 | 5.67 | 131.93 | 127.40 |
| 1 | A | 2405 | A | N9-C4-C5 | 5.67 | 108.07 | 105.80 |
| 1 | A | 2594 | A | N9-C4-C5 | 5.67 | 108.07 | 105.80 |
| 31 | W | 364 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 31 | W | 367 | A | C4-C5-N7 | -5.67 | 107.87 | 110.70 |
| 31 | W | 422 | A | C4-C5-N7 | -5.67 | 107.87 | 110.70 |
| 31 | W | 616 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 183 | A | C4-C5-N7 | -5.67 | 107.87 | 110.70 |
| 1 | A | 324 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 2904 | A | N3-C4-N9 | 5.67 | 131.93 | 127.40 |
| 31 | W | 206 | A | C4-C5-N7 | -5.67 | 107.87 | 110.70 |
| 31 | W | 438 | A | C4-C5-C6 | 5.67 | 119.83 | 117.00 |
| 31 | W | 1103 | A | C8-N9-C4 | 5.67 | 108.07 | 105.80 |
| 1 | A | 118 | A | N9-C4-C5 | 5.66 | 108.07 | 105.80 |
| 1 | A | 268 | A | N9-C4-C5 | 5.66 | 108.07 | 105.80 |
| 1 | A | 278 | A | C8-N9-C4 | 5.66 | 108.07 | 105.80 |
| 1 | A | 888 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1746 | A | C8-N9-C4 | 5.66 | 108.07 | 105.80 |
| 1 | A | 2364 | A | N3-C4-N9 | 5.66 | 131.93 | 127.40 |
| 1 | A | 2417 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 31 | W | 440 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 31 | W | 452 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 31 | W | 910 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 1092 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 1407 | A | N3-C4-N9 | 5.66 | 131.93 | 127.40 |
| 31 | W | 1488 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 1 | A | 501 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 1 | A | 572 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 1 | A | 652 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 964 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1266 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1797 | A | N3-C4-N9 | 5.66 | 131.93 | 127.40 |
| 1 | A | 1876 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 31 | W | 120 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 777 | A | N3-C4-N9 | 5.66 | 131.93 | 127.40 |
| 31 | W | 1050 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 1455 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1312 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 2907 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 2 | B | 76 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 31 | W | 457 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 31 | W | 1222 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 1 | A | 154 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1029 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1072 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 1 | A | 1516 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1679 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 1 | A | 1914 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 1 | A | 2668 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 2 | B | 37 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 148 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 31 | W | 462 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 500 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 31 | W | 1207 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 1422 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 51 | y | 44 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 329 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1115 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 1 | A | 1404 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1677 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 1 | A | 2777 | A | C4-C5-C6 | 5.66 | 119.83 | 117.00 |
| 2 | B | 27 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 1 | A | 12 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 373 | A | N3-C4-N9 | 5.66 | 131.93 | 127.40 |
| 1 | A | 917 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 1 | A | 978 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1157 | A | N9-C4-C5 | 5.66 | 108.06 | 105.80 |
| 1 | A | 1201 | A | C4-C5-N7 | -5.66 | 107.87 | 110.70 |
| 31 | W | 323 | A | N3-C4-N9 | 5.66 | 131.93 | 127.40 |
| 31 | W | 1451 | A | C8-N9-C4 | 5.66 | 108.06 | 105.80 |
| 31 | W | 361 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 485 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 1422 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 835 | A | C4-C5-N7 | -5.65 | 107.87 | 110.70 |
| 1 | A | 847 | A | C4-C5-C6 | 5.65 | 119.83 | 117.00 |
| 1 | A | 974 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1056 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 1 | A | 1313 | A | C4-C5-C6 | 5.65 | 119.83 | 117.00 |
| 1 | A | 1456 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 1 | A | 1914 | A | C4-C5-N7 | -5.65 | 107.87 | 110.70 |
| 1 | A | 2601 | A | C4-C5-N7 | -5.65 | 107.87 | 110.70 |
| 1 | A | 2673 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 31 | W | 150 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 544 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 1510 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 199 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 769 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1326 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1654 | A | C4-C5-N7 | -5.65 | 107.87 | 110.70 |
| 1 | A | 2375 | A | C4-C5-C6 | 5.65 | 119.83 | 117.00 |
| 1 | A | 2547 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 439 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 31 | W | 477 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 31 | W | 669 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 816 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 31 | W | 1111 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 31 | W | 1143 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 1358 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 1 | A | 418 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 31 | W | 582 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 1 | A | 231 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 1 | A | 337 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 384 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 1 | A | 702 | A | C4-C5-C6 | 5.65 | 119.82 | 117.00 |
| 1 | A | 987 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 1 | A | 999 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1161 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1339 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1517 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 2062 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 2398 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 1 | A | 2662 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 1 | A | 2793 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 1 | A | 2830 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 2 | B | 105 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 151 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 31 | W | 236 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 321 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 31 | W | 604 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 879 | A | C4-C5-C6 | 5.65 | 119.82 | 117.00 |
| 31 | W | 1403 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 51 | y | 23 | A | C5-C6-N1 | 5.65 | 120.52 | 117.70 |
| 1 | A | 991 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 1 | A | 1202 | A | C4-C5-C6 | 5.65 | 119.82 | 117.00 |
| 1 | A | 1789 | A | C8-N9-C4 | 5.65 | 108.06 | 105.80 |
| 31 | W | 18 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 31 | W | 254 | A | N9-C4-C5 | 5.65 | 108.06 | 105.80 |
| 31 | W | 1207 | A | N3-C4-N9 | 5.65 | 131.92 | 127.40 |
| 31 | W | 1349 | A | C4-C5-N7 | -5.65 | 107.88 | 110.70 |
| 1 | A | 176 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 202 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 917 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |
| 1 | A | 2402 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 2 | B | 113 | A | N9-C4-C5 | 5.64 | 108.06 | 105.80 |
| 31 | W | 1112 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 31 | W | 1254 | A | N3-C4-N9 | 5.64 | 131.92 | 127.40 |
| 1 | A | 53 | A | C4-C5-C6 | 5.64 | 119.82 | 117.00 |
| 1 | A | 584 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |
| 1 | A | 1685 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 1700 | A | C4-C5-C6 | 5.64 | 119.82 | 117.00 |
| 1 | A | 2560 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 2854 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 31 | W | 266 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 31 | W | 696 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 31 | W | 816 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 31 | W | 886 | A | N9-C4-C5 | 5.64 | 108.06 | 105.80 |
| 1 | A | 1003 | A | C4-C5-C6 | 5.64 | 119.82 | 117.00 |
| 1 | A | 1005 | A | N9-C4-C5 | 5.64 | 108.06 | 105.80 |
| 31 | W | 270 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 31 | W | 791 | A | N9-C4-C5 | 5.64 | 108.06 | 105.80 |
| 1 | A | 206 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 418 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 637 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 1381 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 2087 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 2900 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 31 | W | 148 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 240 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 31 | W | 1050 | A | N9-C4-C5 | 5.64 | 108.06 | 105.80 |
| 31 | W | 1077 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 31 | W | 1213 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 31 | W | 1372 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 71 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 677 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 904 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |
| 1 | A | 1266 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |
| 1 | A | 1802 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 2295 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 117 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 161 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |
| 1 | A | 230 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 993 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 1325 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 1406 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 1540 | A | C8-N9-C4 | 5.64 | 108.06 | 105.80 |
| 1 | A | 1784 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 1 | A | 1814 | A | C4-C5-N7 | -5.64 | 107.88 | 110.70 |
| 31 | W | 203 | A | N3-C4-N9 | 5.64 | 131.91 | 127.40 |
| 1 | A | 210 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 1149 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2034 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 31 | W | 107 | A | C4-C5-N7 | -5.63 | 107.88 | 110.70 |
| 31 | W | 171 | A | N3-C4-N9 | 5.63 | 131.91 | 127.40 |
| 31 | W | 703 | A | C4-C5-N7 | -5.63 | 107.88 | 110.70 |
| 31 | W | 1443 | A | C4-C5-N7 | -5.63 | 107.88 | 110.70 |
| 1 | A | 699 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 1 | A | 821 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 1 | A | 1254 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 1423 | A | C4-C5-N7 | -5.63 | 107.88 | 110.70 |
| 1 | A | 1791 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2351 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2606 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 31 | W | 801 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 31 | W | 803 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 31 | W | 1355 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 51 | 1 | 23 | A | C4-C5-C6 | 5.63 | 119.82 | 117.00 |
| 1 | A | 343 | A | N3-C4-N9 | 5.63 | 131.90 | 127.40 |
| 1 | A | 527 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 592 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 999 | A | C4-C5-N7 | -5.63 | 107.88 | 110.70 |
| 1 | A | 1132 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2542 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 2 | B | 17 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 31 | W | 142 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 31 | W | 506 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 31 | W | 1102 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 52 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 448 | A | C4-C5-C6 | 5.63 | 119.81 | 117.00 |
| 1 | A | 1585 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 1685 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 1961 | A | C4-C5-C6 | 5.63 | 119.81 | 117.00 |
| 1 | A | 2088 | A | C4-C5-C6 | 5.63 | 119.81 | 117.00 |
| 31 | W | 704 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 10 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 893 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 1130 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 1230 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2111 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2364 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 2762 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 31 | W | 178 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 31 | W | 875 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 31 | W | 1422 | A | C4-C5-C6 | 5.63 | 119.81 | 117.00 |
| 1 | A | 469 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 518 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 543 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 1269 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 1 | A | 1913 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 1948 | A | C4-C5-C6 | 5.63 | 119.81 | 117.00 |
| 1 | A | 2542 | A | C4-C5-N7 | -5.63 | 107.89 | 110.70 |
| 31 | W | 929 | A | N9-C4-C5 | 5.63 | 108.05 | 105.80 |
| 31 | W | 1006 | A | N3-C4-N9 | 5.63 | 131.90 | 127.40 |
| 51 | y | 21 | A | C8-N9-C4 | 5.63 | 108.05 | 105.80 |
| 1 | A | 705 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 821 | A | N3-C4-N9 | 5.62 | 131.90 | 127.40 |
| 1 | A | 1084 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 31 | W | 837 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 1 | A | 364 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1797 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2902 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 31 | W | 178 | A | N3-C4-N9 | 5.62 | 131.90 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 210 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 31 | W | 477 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 31 | W | 1403 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 219 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 355 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 1 | A | 762 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1047 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1575 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1709 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2043 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2593 | A | N3-C4-N9 | 5.62 | 131.90 | 127.40 |
| 1 | A | 2618 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 31 | W | 862 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 31 | W | 1289 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 1 | A | 2769 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 31 | W | 209 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 31 | W | 381 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 31 | W | 569 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 51 | 1 | 58 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 314 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 1 | A | 1504 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1580 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 1 | A | 2302 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2835 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 1 | A | 2835 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2854 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2908 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 31 | W | 258 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 31 | W | 401 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 31 | W | 501 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 31 | W | 713 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 31 | W | 862 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 31 | W | 1358 | A | C5-C6-N1 | 5.62 | 120.51 | 117.70 |
| 31 | W | 1434 | A | N3-C4-N9 | 5.62 | 131.90 | 127.40 |
| 31 | W | 1528 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 51 | 1 | 24 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 130 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2398 | A | C4-C5-C6 | 5.62 | 119.81 | 117.00 |
| 1 | A | 2700 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 1 | A | 2778 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 31 | W | 582 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 31 | W | 1443 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1470 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 1 | A | 384 | A | N9-C4-C5 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1042 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 1325 | A | C8-N9-C4 | 5.62 | 108.05 | 105.80 |
| 1 | A | 2340 | A | C4-C5-N7 | -5.62 | 107.89 | 110.70 |
| 1 | A | 2398 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 1 | A | 2804 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 31 | W | 189 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 31 | W | 775 | A | N3-C4-N9 | 5.62 | 131.89 | 127.40 |
| 1 | A | 166 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 1 | A | 355 | A | C8-N9-C4 | 5.61 | 108.05 | 105.80 |
| 1 | A | 2683 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 2 | B | 39 | A | C4-C5-C6 | 5.61 | 119.81 | 117.00 |
| 31 | W | 251 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 31 | W | 529 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 31 | W | 1383 | A | C8-N9-C4 | 5.61 | 108.05 | 105.80 |
| 1 | A | 517 | A | C8-N9-C4 | 5.61 | 108.05 | 105.80 |
| 1 | A | 2505 | A | C8-N9-C4 | 5.61 | 108.05 | 105.80 |
| 1 | A | 2887 | A | C8-N9-C4 | 5.61 | 108.05 | 105.80 |
| 1 | A | 200 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 1084 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 1 | A | 1097 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 1326 | A | N9-C4-C5 | 5.61 | 108.05 | 105.80 |
| 1 | A | 1541 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2007 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2062 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 1 | A | 2338 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 1 | A | 2338 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2405 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 1 | A | 2782 | A | N3-C4-N9 | 5.61 | 131.89 | 127.40 |
| 1 | A | 2835 | A | N3-C4-N9 | 5.61 | 131.89 | 127.40 |
| 1 | A | 2837 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 31 | W | 34 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 31 | W | 423 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 31 | W | 1355 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 31 | W | 1425 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 51 | 1 | 44 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 575 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 1092 | A | N3-C4-N9 | 5.61 | 131.89 | 127.40 |
| 1 | A | 1161 | A | N3-C4-N9 | 5.61 | 131.89 | 127.40 |
| 1 | A | 1906 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2297 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|-------|-------------|----------|
| 1 | A | 2542 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2704 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2923 | A | C4-C5-N7 | -5.61 | 107.89 | 110.70 |
| 31 | W | 401 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 31 | W | 556 | A | C4-C5-N7 | -5.61 | 107.90 | 110.70 |
| 1 | A | 268 | A | N3-C4-N9 | 5.61 | 131.88 | 127.40 |
| 1 | A | 683 | A | C4-C5-C6 | 5.61 | 119.80 | 117.00 |
| 1 | A | 808 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 1253 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2398 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 2683 | A | N3-C4-N9 | 5.61 | 131.89 | 127.40 |
| 31 | W | 62 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 31 | W | 160 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 31 | W | 642 | U | C2-N1-C1' | 5.61 | 124.43 | 117.70 |
| 31 | W | 1437 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 49 | A | N3-C4-N9 | 5.61 | 131.88 | 127.40 |
| 1 | A | 110 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 200 | A | C8-N9-C4 | 5.61 | 108.04 | 105.80 |
| 1 | A | 888 | A | N9-C4-C5 | 5.61 | 108.04 | 105.80 |
| 1 | A | 1619 | A | C4-C5-N7 | -5.61 | 107.90 | 110.70 |
| 31 | W | 323 | A | C4-C5-C6 | 5.61 | 119.80 | 117.00 |
| 31 | W | 1121 | A | C4-C5-N7 | -5.61 | 107.90 | 110.70 |
| 1 | A | 1745 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 31 | W | 902 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 31 | W | 1147 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 31 | W | 1160 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 67 | A | N3-C4-N9 | 5.60 | 131.88 | 127.40 |
| 1 | A | 496 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1055 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1339 | A | N3-C4-N9 | 5.60 | 131.88 | 127.40 |
| 1 | A | 1423 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1432 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1483 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1746 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 2059 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 2593 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 34 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 329 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 31 | W | 816 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 919 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 31 | W | 923 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 1 | A | 723 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 500 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 740 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1061 | A | C4-C5-C6 | 5.60 | 119.80 | 117.00 |
| 1 | A | 1201 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1677 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 1745 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 1957 | A | N3-C4-N9 | 5.60 | 131.88 | 127.40 |
| 1 | A | 2006 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 178 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 1055 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1224 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 1316 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1442 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 1 | A | 1735 | A | C8-N9-C4 | 5.60 | 108.04 | 105.80 |
| 31 | W | 160 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 522 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 705 | A | N9-C4-C5 | 5.60 | 108.04 | 105.80 |
| 31 | W | 1266 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 31 | W | 1488 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 829 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 1021 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 2570 | A | C4-C5-N7 | -5.60 | 107.90 | 110.70 |
| 1 | A | 124 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 1 | A | 376 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 1 | A | 723 | A | C4-C5-C6 | 5.59 | 119.80 | 117.00 |
| 1 | A | 1357 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 1 | A | 1848 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 31 | W | 1425 | A | C4-C5-N7 | -5.59 | 107.90 | 110.70 |
| 1 | A | 1175 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 1 | A | 1663 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 31 | W | 367 | A | N3-C4-N9 | 5.59 | 131.88 | 127.40 |
| 31 | W | 422 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 31 | W | 725 | A | N3-C4-N9 | 5.59 | 131.87 | 127.40 |
| 31 | W | 776 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 1 | A | 231 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 1 | A | 667 | A | N3-C4-N9 | 5.59 | 131.87 | 127.40 |
| 1 | A | 1524 | A | C4-C5-N7 | -5.59 | 107.90 | 110.70 |
| 1 | A | 1679 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 31 | W | 55 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 31 | W | 62 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 31 | W | 148 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 31 | W | 173 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 51 | y | 23 | A | C4-C5-C6 | 5.59 | 119.80 | 117.00 |
| 1 | A | 219 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 231 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 1 | A | 354 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 1 | A | 548 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 1116 | A | C8-N9-C4 | 5.59 | 108.04 | 105.80 |
| 1 | A | 1813 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 1877 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 1 | A | 1905 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 2338 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 31 | W | 208 | A | C4-C5-C6 | 5.59 | 119.80 | 117.00 |
| 31 | W | 266 | A | N3-C4-N9 | 5.59 | 131.87 | 127.40 |
| 31 | W | 371 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 31 | W | 544 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 31 | W | 569 | A | N3-C4-N9 | 5.59 | 131.87 | 127.40 |
| 31 | W | 690 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 31 | W | 1014 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 51 | y | 41 | A | N9-C4-C5 | 5.59 | 108.04 | 105.80 |
| 1 | A | 229 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 1157 | A | C4-C5-C6 | 5.59 | 119.79 | 117.00 |
| 1 | A | 1461 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 2904 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 1 | A | 94 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 1 | A | 124 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 1 | A | 193 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 1 | A | 345 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 1 | A | 678 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 1174 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 1 | A | 1339 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 1 | A | 1774 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 1 | A | 2042 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 1 | A | 2059 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 1 | A | 2398 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 1 | A | 2517 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 31 | W | 31 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 31 | W | 171 | A | C4-C5-C6 | 5.59 | 119.79 | 117.00 |
| 31 | W | 321 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 31 | W | 529 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 31 | W | 824 | A | C4-C5-N7 | -5.59 | 107.91 | 110.70 |
| 31 | W | 988 | A | N9-C4-C5 | 5.59 | 108.03 | 105.80 |
| 31 | W | 1200 | A | C8-N9-C4 | 5.59 | 108.03 | 105.80 |
| 1 | A | 64 | A | N3-C4-N9 | 5.58 | 131.87 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1556 | A | N9-C4-C5 | 5.58 | 108.03 | 105.80 |
| 1 | A | 1784 | A | N3-C4-N9 | 5.58 | 131.87 | 127.40 |
| 31 | W | 225 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 631 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 685 | A | N9-C4-C5 | 5.58 | 108.03 | 105.80 |
| 51 | 1 | 21 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 530 | A | N9-C4-C5 | 5.58 | 108.03 | 105.80 |
| 1 | A | 1174 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 1941 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2670 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 1 | A | 2787 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 2 | B | 17 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 508 | A | C5-C6-N1 | 5.58 | 120.49 | 117.70 |
| 31 | W | 703 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 31 | W | 703 | A | N3-C4-N9 | 5.58 | 131.87 | 127.40 |
| 31 | W | 925 | A | N3-C4-N9 | 5.58 | 131.87 | 127.40 |
| 31 | W | 1050 | A | N3-C4-N9 | 5.58 | 131.87 | 127.40 |
| 1 | A | 746 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 1286 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2389 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2834 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2869 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 2893 | A | N9-C4-C5 | 5.58 | 108.03 | 105.80 |
| 2 | B | 43 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 28 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 618 | A | N3-C4-N9 | 5.58 | 131.86 | 127.40 |
| 1 | A | 991 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 31 | W | 924 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 31 | W | 925 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 224 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 1 | A | 342 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 437 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 584 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 653 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 1914 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2032 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2464 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 204 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 1120 | A | N9-C4-C5 | 5.58 | 108.03 | 105.80 |
| 31 | W | 1259 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 1541 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 51 | 1 | 41 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 51 | 1 | 58 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 65 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 274 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 1405 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 2507 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 1 | A | 2924 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 2 | B | 102 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 357 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 125 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 1 | A | 412 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 600 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 1115 | A | N9-C4-C5 | 5.58 | 108.03 | 105.80 |
| 1 | A | 1957 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 1 | A | 2340 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 2807 | A | C4-C5-C6 | 5.58 | 119.79 | 117.00 |
| 31 | W | 74 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 371 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 31 | W | 542 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 31 | W | 556 | A | N3-C4-N9 | 5.58 | 131.86 | 127.40 |
| 31 | W | 1180 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 31 | W | 1417 | A | C4-C5-N7 | -5.58 | 107.91 | 110.70 |
| 31 | W | 1470 | A | C8-N9-C4 | 5.58 | 108.03 | 105.80 |
| 1 | A | 194 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 1190 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 1243 | A | C4-C5-N7 | -5.57 | 107.91 | 110.70 |
| 1 | A | 2295 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 2464 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 31 | W | 281 | A | C4-C5-N7 | -5.57 | 107.91 | 110.70 |
| 31 | W | 715 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 31 | W | 725 | A | C4-C5-N7 | -5.57 | 107.91 | 110.70 |
| 31 | W | 828 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 31 | W | 1006 | A | C4-C5-C6 | 5.57 | 119.79 | 117.00 |
| 31 | W | 1289 | A | N3-C4-N9 | 5.57 | 131.86 | 127.40 |
| 51 | 1 | 23 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 224 | A | N3-C4-N9 | 5.57 | 131.86 | 127.40 |
| 1 | A | 476 | A | N3-C4-N9 | 5.57 | 131.86 | 127.40 |
| 1 | A | 1888 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 2083 | A | C5-C6-N1 | 5.57 | 120.49 | 117.70 |
| 1 | A | 2601 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 2834 | A | C4-C5-N7 | -5.57 | 107.91 | 110.70 |
| 31 | W | 658 | A | C4-C5-N7 | -5.57 | 107.91 | 110.70 |
| 1 | A | 459 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 477 | A | C4-C5-N7 | -5.57 | 107.91 | 110.70 |
| 1 | A | 526 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 821 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 893 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 1100 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 1432 | A | N3-C4-N9 | 5.57 | 131.86 | 127.40 |
| 1 | A | 1608 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 2661 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 2 | B | 44 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 31 | W | 685 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 31 | W | 956 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 31 | W | 1512 | A | N3-C4-N9 | 5.57 | 131.86 | 127.40 |
| 51 | y | 23 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 51 | y | 37 | A | N7-C8-N9 | -5.57 | 111.02 | 113.80 |
| 1 | A | 133 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 500 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 1325 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 1784 | A | C4-C5-C6 | 5.57 | 119.78 | 117.00 |
| 1 | A | 2089 | A | N3-C4-N9 | 5.57 | 131.86 | 127.40 |
| 31 | W | 899 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 31 | W | 1115 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 31 | W | 1366 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 124 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 185 | A | C5-C6-N1 | 5.57 | 120.48 | 117.70 |
| 1 | A | 259 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 429 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 477 | A | N3-C4-N9 | 5.57 | 131.85 | 127.40 |
| 1 | A | 518 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 530 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 1188 | A | C4-C5-C6 | 5.57 | 119.78 | 117.00 |
| 1 | A | 1516 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 2083 | A | C4-C5-C6 | 5.57 | 119.78 | 117.00 |
| 1 | A | 2351 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 2463 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 2480 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 2912 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 31 | W | 556 | A | C4-C5-C6 | 5.57 | 119.78 | 117.00 |
| 31 | W | 825 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 31 | W | 1176 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 273 | A | C4-C5-C6 | 5.57 | 119.78 | 117.00 |
| 1 | A | 333 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 1 | A | 490 | A | C4-C5-C6 | 5.57 | 119.78 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 893 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 1066 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 1175 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 1 | A | 1456 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 31 | W | 34 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 31 | W | 301 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 31 | W | 344 | A | C8-N9-C4 | 5.57 | 108.03 | 105.80 |
| 31 | W | 419 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 31 | W | 463 | A | C4-C5-N7 | -5.57 | 107.92 | 110.70 |
| 31 | W | 1252 | A | N9-C4-C5 | 5.57 | 108.03 | 105.80 |
| 1 | A | 224 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 1 | A | 275 | A | N9-C4-C5 | 5.56 | 108.03 | 105.80 |
| 1 | A | 553 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 1 | A | 575 | A | C4-C5-C6 | 5.56 | 119.78 | 117.00 |
| 1 | A | 575 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 1 | A | 2030 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 31 | W | 925 | A | C4-C5-C6 | 5.56 | 119.78 | 117.00 |
| 31 | W | 1320 | A | C8-N9-C4 | 5.56 | 108.03 | 105.80 |
| 51 | 1 | 9 | A | C8-N9-C4 | 5.56 | 108.03 | 105.80 |
| 1 | A | 324 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 1 | A | 1157 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 1 | A | 2364 | A | N9-C4-C5 | 5.56 | 108.03 | 105.80 |
| 1 | A | 2734 | A | C8-N9-C4 | 5.56 | 108.03 | 105.80 |
| 1 | A | 2902 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 31 | W | 208 | A | N9-C4-C5 | 5.56 | 108.03 | 105.80 |
| 1 | A | 2570 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 31 | W | 415 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 1 | A | 202 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 1 | A | 339 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 1 | A | 354 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 1 | A | 1661 | A | N7-C8-N9 | -5.56 | 111.02 | 113.80 |
| 1 | A | 1734 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 1 | A | 2735 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 31 | W | 208 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 31 | W | 1289 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 51 | y | 41 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 1 | A | 162 | A | C4-C5-C6 | 5.56 | 119.78 | 117.00 |
| 1 | A | 244 | A | N3-C4-N9 | 5.56 | 131.84 | 127.40 |
| 1 | A | 1585 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 1 | A | 2270 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 1 | A | 2383 | A | N3-C4-N9 | 5.56 | 131.85 | 127.40 |
| 1 | A | 2834 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2902 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 31 | W | 419 | A | C4-C5-C6 | 5.56 | 119.78 | 117.00 |
| 31 | W | 529 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 31 | W | 592 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 31 | W | 1065 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 31 | W | 1207 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 1 | A | 224 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 1 | A | 1832 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 1 | A | 2032 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 31 | W | 452 | A | N9-C4-C5 | 5.56 | 108.02 | 105.80 |
| 31 | W | 844 | A | C8-N9-C4 | 5.56 | 108.02 | 105.80 |
| 31 | W | 1048 | A | C4-C5-N7 | -5.56 | 107.92 | 110.70 |
| 1 | A | 67 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 908 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 1034 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 2643 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 2812 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 31 | W | 139 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 254 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 433 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 31 | W | 544 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 811 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 1435 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 727 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 1092 | A | C4-C5-C6 | 5.55 | 119.78 | 117.00 |
| 1 | A | 1540 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 1947 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 2461 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 2 | B | 17 | A | N3-C4-N9 | 5.55 | 131.84 | 127.40 |
| 31 | W | 28 | A | N3-C4-N9 | 5.55 | 131.84 | 127.40 |
| 31 | W | 159 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 974 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 1054 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 658 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1113 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1406 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1432 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1877 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 2042 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 1 | A | 2629 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 31 | W | 329 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 31 | W | 532 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 803 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 929 | A | N3-C4-N9 | 5.55 | 131.84 | 127.40 |
| 31 | W | 1178 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 1254 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 1294 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 462 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 727 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 758 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1003 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1695 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 2049 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 2406 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 2440 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 31 | W | 271 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 31 | W | 685 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 31 | W | 721 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 791 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 1176 | A | C4-C5-N7 | -5.55 | 107.92 | 110.70 |
| 31 | W | 1417 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 391 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1417 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 1 | A | 1585 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 2769 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 1 | A | 2804 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 2830 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 31 | W | 786 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 31 | W | 1028 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 1 | A | 126 | A | N3-C4-N9 | 5.55 | 131.84 | 127.40 |
| 1 | A | 275 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 1 | A | 278 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1961 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 1 | A | 1989 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 2276 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 31 | W | 364 | A | N9-C4-C5 | 5.55 | 108.02 | 105.80 |
| 31 | W | 422 | A | N3-C4-N9 | 5.55 | 131.84 | 127.40 |
| 31 | W | 500 | A | C4-C5-C6 | 5.55 | 119.77 | 117.00 |
| 31 | W | 1050 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 31 | W | 1435 | A | C4-C5-N7 | -5.55 | 107.93 | 110.70 |
| 31 | W | 1493 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 51 | 1 | 14 | A | C8-N9-C4 | 5.55 | 108.02 | 105.80 |
| 1 | A | 1005 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1144 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1592 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1832 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 2295 | A | N3-C4-N9 | 5.54 | 131.84 | 127.40 |
| 1 | A | 2875 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 211 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 913 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 1512 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 38 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 322 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 330 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 355 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 476 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 868 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1636 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 1713 | A | C4-C5-C6 | 5.54 | 119.77 | 117.00 |
| 1 | A | 1941 | A | C4-C5-C6 | 5.54 | 119.77 | 117.00 |
| 1 | A | 2060 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2307 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2369 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2673 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2722 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 457 | A | N3-C4-N9 | 5.54 | 131.83 | 127.40 |
| 1 | A | 345 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 623 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 732 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1189 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1392 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1588 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2343 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2497 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 2770 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 31 | W | 210 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 271 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 31 | W | 352 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 1185 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 194 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 1103 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1982 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 543 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 677 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 1965 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 2375 | A | N3-C4-N9 | 5.54 | 131.83 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 337 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 382 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 541 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 31 | W | 956 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 31 | W | 1189 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 1425 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 31 | W | 1442 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 947 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1617 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 569 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 179 | A | C8-N9-C4 | 5.54 | 108.01 | 105.80 |
| 1 | A | 659 | A | C4-C5-C6 | 5.54 | 119.77 | 117.00 |
| 1 | A | 1141 | A | N9-C4-C5 | 5.54 | 108.02 | 105.80 |
| 1 | A | 1230 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 1 | A | 1235 | A | N9-C4-C5 | 5.54 | 108.01 | 105.80 |
| 1 | A | 1323 | A | N9-C4-C5 | 5.54 | 108.01 | 105.80 |
| 1 | A | 1956 | A | C4-C5-N7 | -5.54 | 107.93 | 110.70 |
| 31 | W | 456 | A | N9-C4-C5 | 5.54 | 108.01 | 105.80 |
| 31 | W | 518 | A | C8-N9-C4 | 5.54 | 108.02 | 105.80 |
| 31 | W | 1348 | A | C8-N9-C4 | 5.54 | 108.01 | 105.80 |
| 1 | A | 265 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1627 | A | C4-C5-N7 | -5.53 | 107.93 | 110.70 |
| 1 | A | 1654 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1743 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1895 | A | C4-C5-N7 | -5.53 | 107.93 | 110.70 |
| 1 | A | 2078 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 31 | W | 404 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 31 | W | 917 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 31 | W | 1147 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 31 | W | 1342 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 343 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 593 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 991 | A | N3-C4-N9 | 5.53 | 131.83 | 127.40 |
| 1 | A | 1335 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2357 | A | C4-C5-N7 | -5.53 | 107.93 | 110.70 |
| 1 | A | 2923 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 2 | B | 71 | A | C4-C5-N7 | -5.53 | 107.93 | 110.70 |
| 31 | W | 62 | A | C4-C5-N7 | -5.53 | 107.93 | 110.70 |
| 31 | W | 99 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 428 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 494 | A | C4-C5-C6 | 5.53 | 119.77 | 117.00 |
| 1 | A | 1008 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1144 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1579 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1995 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2619 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2777 | A | N3-C4-N9 | 5.53 | 131.82 | 127.40 |
| 2 | B | 27 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 31 | W | 522 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 31 | W | 581 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 31 | W | 919 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 1437 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 222 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1119 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1230 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1608 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 1850 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1995 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2869 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2893 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 2 | B | 27 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 31 | W | 776 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 799 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 1437 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 198 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 561 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1784 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2629 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 1056 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 1236 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 1271 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 345 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 1287 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 1556 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 1746 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2052 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 2316 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 1 | A | 2369 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 1 | A | 2663 | A | C8-N9-C4 | 5.53 | 108.01 | 105.80 |
| 31 | W | 203 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 31 | W | 1128 | A | N9-C4-C5 | 5.53 | 108.01 | 105.80 |
| 31 | W | 1359 | A | C4-C5-N7 | -5.53 | 107.94 | 110.70 |
| 51 | 1 | 23 | A | C5-C6-N1 | 5.53 | 120.46 | 117.70 |
| 1 | A | 279 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1061 | A | N3-C4-N9 | 5.52 | 131.82 | 127.40 |
| 1 | A | 1202 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 2034 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 831 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 31 | W | 1077 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 31 | W | 1509 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 207 | A | N3-C4-N9 | 5.52 | 131.82 | 127.40 |
| 1 | A | 549 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 1593 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 2754 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 2854 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 31 | W | 53 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 507 | A | C4-C5-C6 | 5.52 | 119.76 | 117.00 |
| 31 | W | 582 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 31 | W | 618 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 959 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 31 | W | 1260 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 1 | A | 1617 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 2 | B | 113 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 148 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 925 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 31 | W | 956 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 325 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 1312 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 2027 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 2100 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 2375 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 2694 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 2846 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 31 | W | 1478 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 479 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 763 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 965 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 1 | A | 1078 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 2479 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 1 | A | 2804 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 31 | W | 150 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 190 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 415 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 31 | W | 771 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 31 | W | 1121 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 31 | W | 1128 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1407 | A | C4-C5-N7 | -5.52 | 107.94 | 110.70 |
| 1 | A | 469 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 1 | A | 1197 | A | C8-N9-C4 | 5.52 | 108.01 | 105.80 |
| 1 | A | 1269 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 1 | A | 1735 | A | N9-C4-C5 | 5.52 | 108.01 | 105.80 |
| 1 | A | 244 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 479 | A | N9-C4-C5 | 5.51 | 108.01 | 105.80 |
| 1 | A | 965 | A | C8-N9-C4 | 5.51 | 108.01 | 105.80 |
| 1 | A | 1490 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1999 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 2 | B | 11 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 31 | W | 630 | A | N9-C4-C5 | 5.51 | 108.01 | 105.80 |
| 31 | W | 775 | A | C8-N9-C4 | 5.51 | 108.01 | 105.80 |
| 31 | W | 902 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 31 | W | 968 | A | N9-C4-C5 | 5.51 | 108.01 | 105.80 |
| 31 | W | 1257 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 126 | A | C4-C5-C6 | 5.51 | 119.76 | 117.00 |
| 1 | A | 438 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1157 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1346 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1357 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 1424 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 1743 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 31 | W | 76 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 31 | W | 228 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 428 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 574 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 652 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 770 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 1393 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1592 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1789 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 2 | B | 114 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 31 | W | 611 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 31 | W | 777 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 31 | W | 1541 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 21 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1499 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1533 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 1942 | A | C4-C5-N7 | -5.51 | 107.94 | 110.70 |
| 1 | A | 1981 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 1 | A | 2042 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2482 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 31 | W | 762 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 31 | W | 974 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 31 | W | 1207 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 1 | A | 254 | A | C5-C6-N1 | 5.51 | 120.45 | 117.70 |
| 1 | A | 330 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 582 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 600 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1115 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 2356 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 31 | W | 107 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 31 | W | 672 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 31 | W | 721 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 31 | W | 777 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 31 | W | 1252 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 781 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 1 | A | 1036 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1221 | A | C8-N9-C4 | 5.51 | 108.00 | 105.80 |
| 1 | A | 1663 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 1 | A | 1839 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 1 | A | 2750 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 31 | W | 195 | A | C5-C6-N1 | 5.51 | 120.45 | 117.70 |
| 31 | W | 240 | A | N9-C4-C5 | 5.51 | 108.00 | 105.80 |
| 51 | 1 | 44 | A | C4-C5-N7 | -5.51 | 107.95 | 110.70 |
| 1 | A | 64 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2804 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 2835 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 31 | W | 271 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 200 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 530 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 811 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 908 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 917 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1723 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2790 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2793 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 2 | B | 37 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 208 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 705 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 803 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 918 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 1289 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 353 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 1388 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1412 | A | C4-C5-C6 | 5.50 | 119.75 | 117.00 |
| 1 | A | 1465 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2066 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2375 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 664 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 1470 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 102 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 637 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 699 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 1092 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1583 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 1601 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1675 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 31 | W | 139 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 31 | W | 979 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 1120 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 1348 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 162 | A | N3-C4-N9 | 5.50 | 131.80 | 127.40 |
| 1 | A | 220 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 449 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 519 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1941 | A | N3-C4-N9 | 5.50 | 131.80 | 127.40 |
| 31 | W | 173 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 31 | W | 290 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 31 | W | 947 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 1261 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 31 | W | 1486 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 723 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 867 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 1653 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1677 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2357 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2560 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2769 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2837 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2876 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 389 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 475 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 651 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 1333 | A | N3-C4-N9 | 5.50 | 131.80 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1517 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 1005 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 1 | A | 2006 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 2303 | A | N9-C4-C5 | 5.50 | 108.00 | 105.80 |
| 31 | W | 475 | A | C4-C5-N7 | -5.50 | 107.95 | 110.70 |
| 31 | W | 831 | A | C8-N9-C4 | 5.50 | 108.00 | 105.80 |
| 1 | A | 5 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 154 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 1190 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 1260 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 1555 | A | C4-C5-C6 | 5.49 | 119.75 | 117.00 |
| 1 | A | 1699 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 1906 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 2595 | A | C4-C5-C6 | 5.49 | 119.75 | 117.00 |
| 1 | A | 2812 | A | C5-C6-N1 | 5.49 | 120.45 | 117.70 |
| 2 | B | 44 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 31 | W | 228 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 31 | W | 500 | A | N3-C4-N9 | 5.49 | 131.80 | 127.40 |
| 31 | W | 542 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 31 | W | 638 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 31 | W | 638 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 31 | W | 1004 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 31 | W | 1422 | A | N3-C4-N9 | 5.49 | 131.79 | 127.40 |
| 1 | A | 162 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 1 | A | 220 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 1 | A | 1056 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 2876 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 2908 | A | C4-C5-C6 | 5.49 | 119.75 | 117.00 |
| 31 | W | 928 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 244 | A | C4-C5-C6 | 5.49 | 119.75 | 117.00 |
| 1 | A | 273 | A | N3-C4-N9 | 5.49 | 131.79 | 127.40 |
| 1 | A | 584 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 1 | A | 922 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 1014 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 1631 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 2387 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 2436 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 2898 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 31 | W | 61 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 31 | W | 389 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 31 | W | 419 | A | N3-C4-N9 | 5.49 | 131.79 | 127.40 |
| 31 | W | 419 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 439 | A | C5-C6-N1 | 5.49 | 120.44 | 117.70 |
| 31 | W | 1419 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 31 | W | 1455 | A | C4-C5-N7 | -5.49 | 107.95 | 110.70 |
| 1 | A | 73 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 1 | A | 154 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 225 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 1 | A | 551 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 1 | A | 723 | A | N3-C4-N9 | 5.49 | 131.79 | 127.40 |
| 1 | A | 1073 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 1 | A | 1347 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 1615 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 1615 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 1 | A | 1727 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 1 | A | 2570 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 2 | B | 43 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 2 | B | 46 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 31 | W | 107 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 31 | W | 178 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 31 | W | 548 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 31 | W | 1176 | A | N9-C4-C5 | 5.49 | 108.00 | 105.80 |
| 1 | A | 431 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 1097 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 31 | W | 984 | A | C8-N9-C4 | 5.49 | 108.00 | 105.80 |
| 1 | A | 178 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 1 | A | 781 | A | N9-C4-C5 | 5.49 | 107.99 | 105.80 |
| 1 | A | 811 | A | N3-C4-N9 | 5.49 | 131.79 | 127.40 |
| 1 | A | 1019 | A | N9-C4-C5 | 5.49 | 107.99 | 105.80 |
| 1 | A | 1132 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 1 | A | 1956 | A | C8-N9-C4 | 5.49 | 107.99 | 105.80 |
| 1 | A | 2356 | A | C8-N9-C4 | 5.49 | 107.99 | 105.80 |
| 1 | A | 2830 | A | N9-C4-C5 | 5.49 | 107.99 | 105.80 |
| 31 | W | 462 | A | C4-C5-N7 | -5.49 | 107.96 | 110.70 |
| 31 | W | 996 | A | C8-N9-C4 | 5.49 | 107.99 | 105.80 |
| 31 | W | 1031 | A | N9-C4-C5 | 5.49 | 107.99 | 105.80 |
| 1 | A | 198 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 1346 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 2590 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 2683 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 31 | W | 323 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 258 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 500 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 618 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 851 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 1029 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 1697 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 1919 | A | N3-C4-N9 | 5.48 | 131.79 | 127.40 |
| 31 | W | 638 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 31 | W | 724 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 31 | W | 796 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 504 | A | N3-C4-N9 | 5.48 | 131.78 | 127.40 |
| 1 | A | 572 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 619 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 732 | A | C4-C5-C6 | 5.48 | 119.74 | 117.00 |
| 1 | A | 849 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 978 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 1465 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 1579 | A | C4-C5-C6 | 5.48 | 119.74 | 117.00 |
| 1 | A | 1636 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 1885 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 2307 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 2912 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 31 | W | 160 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 31 | W | 415 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 31 | W | 477 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 31 | W | 674 | A | N3-C4-N9 | 5.48 | 131.78 | 127.40 |
| 31 | W | 979 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 31 | W | 1024 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 31 | W | 1048 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 31 | W | 1103 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 31 | W | 1359 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 31 | W | 1523 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 51 | y | 41 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 51 | 1 | 41 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 1918 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 2441 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 364 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 578 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 1260 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |
| 1 | A | 1876 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 2477 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 31 | W | 837 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 753 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 957 | A | C8-N9-C4 | 5.48 | 107.99 | 105.80 |
| 1 | A | 1540 | A | N9-C4-C5 | 5.48 | 107.99 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2071 | A | C4-C5-N7 | -5.48 | 107.96 | 110.70 |
| 1 | A | 470 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 490 | A | N3-C4-N9 | 5.47 | 131.78 | 127.40 |
| 1 | A | 582 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 705 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 1078 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1679 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1967 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 31 | W | 18 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 31 | W | 35 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 31 | W | 1200 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 91 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1760 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 1839 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 2767 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 2810 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 31 | W | 52 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 139 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 775 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 1278 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 1503 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 1906 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 2480 | A | C4-C5-N7 | -5.47 | 107.96 | 110.70 |
| 1 | A | 2629 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 287 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 31 | W | 928 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 51 | 1 | 58 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 1 | A | 314 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 1 | A | 876 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 1 | A | 943 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 2087 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 1 | A | 2831 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 401 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 31 | W | 721 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1233 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 1 | A | 1710 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 2071 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 31 | W | 658 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 1056 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 1248 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 31 | W | 1493 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 1 | A | 118 | A | N3-C4-N9 | 5.47 | 131.77 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 486 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 647 | A | N3-C4-N9 | 5.47 | 131.77 | 127.40 |
| 1 | A | 896 | A | C8-N9-C4 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1361 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1423 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 1 | A | 1499 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 1 | A | 2461 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 2 | B | 102 | A | C4-C5-C6 | 5.47 | 119.73 | 117.00 |
| 31 | W | 159 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 541 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 768 | A | N9-C4-C5 | 5.47 | 107.99 | 105.80 |
| 31 | W | 929 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 31 | W | 1541 | A | C4-C5-N7 | -5.47 | 107.97 | 110.70 |
| 1 | A | 91 | A | N9-C4-C5 | 5.46 | 107.99 | 105.80 |
| 1 | A | 307 | A | C8-N9-C4 | 5.46 | 107.99 | 105.80 |
| 1 | A | 889 | A | C8-N9-C4 | 5.46 | 107.99 | 105.80 |
| 1 | A | 1313 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 2595 | A | C8-N9-C4 | 5.46 | 107.99 | 105.80 |
| 31 | W | 140 | A | C8-N9-C4 | 5.46 | 107.99 | 105.80 |
| 31 | W | 569 | A | C8-N9-C4 | 5.46 | 107.99 | 105.80 |
| 31 | W | 928 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 31 | W | 1512 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 38 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 302 | A | N3-C4-N9 | 5.46 | 131.77 | 127.40 |
| 1 | A | 354 | A | C4-C5-C6 | 5.46 | 119.73 | 117.00 |
| 1 | A | 1054 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 31 | W | 1289 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 31 | W | 1479 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 51 | y | 23 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 318 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 407 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 456 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 593 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 683 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 925 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 991 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 1036 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 1499 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1722 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1882 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 31 | W | 236 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 31 | W | 254 | A | C4-C5-C6 | 5.46 | 119.73 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 504 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 1224 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1956 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 31 | W | 314 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 31 | W | 791 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 324 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 616 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1059 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1123 | A | C4-C5-C6 | 5.46 | 119.73 | 117.00 |
| 1 | A | 1243 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1553 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1788 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 1982 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 2088 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 2 | B | 55 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 31 | W | 203 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 31 | W | 1017 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 51 | 1 | 41 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 353 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 507 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 1 | A | 519 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 1421 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 2100 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 2327 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 2560 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 31 | W | 664 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 31 | W | 1238 | A | C8-N9-C4 | 5.46 | 107.98 | 105.80 |
| 1 | A | 229 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 389 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 31 | W | 53 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 31 | W | 55 | A | C4-C5-N7 | -5.46 | 107.97 | 110.70 |
| 31 | W | 1261 | A | N9-C4-C5 | 5.46 | 107.98 | 105.80 |
| 1 | A | 13 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 337 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 746 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 1277 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 1809 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 1815 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 1818 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 2846 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 2 | B | 105 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 31 | W | 225 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 371 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 31 | W | 440 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 31 | W | 504 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 31 | W | 738 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 31 | W | 776 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 31 | W | 1259 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 207 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 389 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 1244 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 2618 | A | N3-C4-N9 | 5.45 | 131.76 | 127.40 |
| 31 | W | 945 | A | C8-N9-C4 | 5.45 | 107.98 | 105.80 |
| 31 | W | 1205 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 49 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 202 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 965 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 1347 | A | N3-C4-N9 | 5.45 | 131.76 | 127.40 |
| 1 | A | 1767 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 2590 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 2618 | A | C8-N9-C4 | 5.45 | 107.98 | 105.80 |
| 31 | W | 12 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 31 | W | 12 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 31 | W | 512 | A | C8-N9-C4 | 5.45 | 107.98 | 105.80 |
| 31 | W | 669 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 51 | y | 21 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 10 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 364 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 894 | A | C4-C5-N7 | -5.45 | 107.98 | 110.70 |
| 1 | A | 1116 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 2389 | A | C4-C5-N7 | -5.45 | 107.97 | 110.70 |
| 1 | A | 2762 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 2912 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 31 | W | 433 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 31 | W | 703 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 1617 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 2 | B | 37 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 110 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 438 | A | C4-C5-N7 | -5.45 | 107.98 | 110.70 |
| 1 | A | 956 | A | C8-N9-C4 | 5.45 | 107.98 | 105.80 |
| 1 | A | 1375 | A | C4-C5-N7 | -5.45 | 107.98 | 110.70 |
| 1 | A | 1618 | A | C8-N9-C4 | 5.45 | 107.98 | 105.80 |
| 1 | A | 2018 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 2091 | A | C4-C5-N7 | -5.45 | 107.98 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2417 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 1 | A | 2686 | A | N9-C4-C5 | 5.45 | 107.98 | 105.80 |
| 31 | W | 630 | A | C4-C5-N7 | -5.45 | 107.98 | 110.70 |
| 31 | W | 758 | A | C8-N9-C4 | 5.45 | 107.98 | 105.80 |
| 31 | W | 790 | A | C4-C5-N7 | -5.45 | 107.98 | 110.70 |
| 1 | A | 1504 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1686 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1791 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 2643 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 171 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 31 | W | 979 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 1161 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 646 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 970 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1541 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 1601 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1686 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 2459 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 2497 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 2619 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 2754 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 2904 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 31 | W | 61 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 31 | W | 541 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 924 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 31 | W | 1210 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 94 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 326 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 948 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 1061 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1116 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1126 | A | C5-C6-N1 | 5.44 | 120.42 | 117.70 |
| 1 | A | 1619 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 2708 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 2827 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 31 | W | 72 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 234 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 31 | W | 367 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 401 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 474 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 1024 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 31 | W | 1197 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1386 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 31 | W | 1479 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 740 | A | C8-N9-C4 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1047 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1254 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 1592 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 1631 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 2532 | A | N9-C4-C5 | 5.44 | 107.98 | 105.80 |
| 1 | A | 2601 | A | N3-C4-N9 | 5.44 | 131.75 | 127.40 |
| 1 | A | 118 | A | C4-C5-C6 | 5.44 | 119.72 | 117.00 |
| 1 | A | 339 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 479 | A | C8-N9-C4 | 5.44 | 107.97 | 105.80 |
| 1 | A | 947 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 974 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 1258 | A | N9-C4-C5 | 5.44 | 107.97 | 105.80 |
| 1 | A | 1579 | A | N9-C4-C5 | 5.44 | 107.97 | 105.80 |
| 31 | W | 128 | A | C8-N9-C4 | 5.44 | 107.97 | 105.80 |
| 31 | W | 463 | A | N9-C4-C5 | 5.44 | 107.97 | 105.80 |
| 31 | W | 831 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 376 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 1 | A | 1473 | A | N3-C4-N9 | 5.44 | 131.75 | 127.40 |
| 1 | A | 2479 | A | C4-C5-N7 | -5.44 | 107.98 | 110.70 |
| 51 | 1 | 76 | A | C8-N9-C4 | 5.44 | 107.97 | 105.80 |
| 1 | A | 322 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1113 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1464 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1631 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1767 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 1802 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 1913 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 2462 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 2526 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 18 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 287 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 31 | W | 433 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 690 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 879 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 902 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 118 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 279 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 390 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 1061 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1277 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1580 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1588 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1724 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1900 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2296 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2343 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2390 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 2482 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2904 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 2 | B | 97 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 556 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 583 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 618 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 684 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 828 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 31 | W | 985 | A | C4-C5-C6 | 5.43 | 119.72 | 117.00 |
| 1 | A | 207 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 1542 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 2889 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 31 | W | 190 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 684 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 31 | W | 705 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 31 | W | 793 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 31 | W | 1358 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1858 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2105 | U | N1-C2-O2 | 5.43 | 126.60 | 122.80 |
| 1 | A | 2686 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2762 | A | C4-C5-N7 | -5.43 | 107.98 | 110.70 |
| 1 | A | 2807 | A | N3-C4-N9 | 5.43 | 131.74 | 127.40 |
| 31 | W | 1200 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 1359 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1157 | A | C4-C5-N7 | -5.43 | 107.99 | 110.70 |
| 1 | A | 1323 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1850 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 206 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 210 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 904 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 1930 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 1 | A | 2060 | A | N9-C4-C5 | 5.43 | 107.97 | 105.80 |
| 31 | W | 757 | A | C4-C5-N7 | -5.43 | 107.99 | 110.70 |
| 31 | W | 988 | A | N3-C4-N9 | 5.43 | 131.74 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1054 | A | C4-C5-N7 | -5.43 | 107.99 | 110.70 |
| 31 | W | 1502 | A | C8-N9-C4 | 5.43 | 107.97 | 105.80 |
| 1 | A | 851 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1130 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1516 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1534 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1982 | A | C4-C5-C6 | 5.42 | 119.71 | 117.00 |
| 1 | A | 2819 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 1054 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1369 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 2066 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 2462 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 31 | W | 12 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1383 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 1451 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 14 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 547 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 753 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 811 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1346 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1648 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1844 | A | C4-C5-C6 | 5.42 | 119.71 | 117.00 |
| 1 | A | 2668 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 2793 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 2 | B | 102 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1272 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1294 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 51 | 1 | 14 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 384 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 524 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 31 | W | 296 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 333 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 438 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1451 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 65 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 244 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 683 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 790 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1042 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1323 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1405 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1477 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1743 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1882 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1947 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 31 | W | 209 | A | N3-C4-N9 | 5.42 | 131.74 | 127.40 |
| 31 | W | 306 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 1128 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 51 | y | 9 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 354 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 559 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 690 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 1025 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 1340 | A | N3-C4-N9 | 5.42 | 131.73 | 127.40 |
| 1 | A | 1381 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 2087 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 2297 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 2316 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 1 | A | 2421 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 209 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 604 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 870 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 31 | W | 968 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 1254 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1419 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 51 | y | 24 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 1 | A | 431 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 2 | B | 39 | A | C4-C5-N7 | -5.42 | 107.99 | 110.70 |
| 31 | W | 232 | A | C8-N9-C4 | 5.42 | 107.97 | 105.80 |
| 31 | W | 1140 | A | N9-C4-C5 | 5.42 | 107.97 | 105.80 |
| 1 | A | 762 | A | C4-C5-N7 | -5.41 | 107.99 | 110.70 |
| 1 | A | 808 | A | C4-C5-N7 | -5.41 | 107.99 | 110.70 |
| 1 | A | 829 | A | N9-C4-C5 | 5.41 | 107.97 | 105.80 |
| 1 | A | 1434 | A | N3-C4-N9 | 5.41 | 131.73 | 127.40 |
| 1 | A | 1948 | A | C4-C5-N7 | -5.41 | 107.99 | 110.70 |
| 1 | A | 2330 | A | N3-C4-N9 | 5.41 | 131.73 | 127.40 |
| 1 | A | 2571 | A | C4-C5-N7 | -5.41 | 107.99 | 110.70 |
| 1 | A | 2779 | A | C4-C5-N7 | -5.41 | 107.99 | 110.70 |
| 31 | W | 352 | A | N9-C4-C5 | 5.41 | 107.97 | 105.80 |
| 31 | W | 372 | A | N9-C4-C5 | 5.41 | 107.97 | 105.80 |
| 31 | W | 679 | A | C4-C5-N7 | -5.41 | 107.99 | 110.70 |
| 31 | W | 918 | A | C8-N9-C4 | 5.41 | 107.97 | 105.80 |
| 1 | A | 1776 | A | C8-N9-C4 | 5.41 | 107.97 | 105.80 |
| 31 | W | 287 | A | N9-C4-C5 | 5.41 | 107.97 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1031 | A | C8-N9-C4 | 5.41 | 107.97 | 105.80 |
| 1 | A | 49 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 1 | A | 281 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 1 | A | 373 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 1072 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 1179 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 2100 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 1 | A | 2383 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 1 | A | 2827 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 2 | B | 56 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 31 | W | 10 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 31 | W | 28 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 31 | W | 713 | A | C4-C5-C6 | 5.41 | 119.71 | 117.00 |
| 31 | W | 758 | A | C5-C6-N1 | 5.41 | 120.41 | 117.70 |
| 31 | W | 1006 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 553 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 1812 | A | N3-C4-N9 | 5.41 | 131.73 | 127.40 |
| 1 | A | 2034 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 31 | W | 142 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 31 | W | 501 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 31 | W | 592 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 31 | W | 592 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 31 | W | 793 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 31 | W | 1017 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 31 | W | 1090 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 31 | W | 1120 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 31 | W | 1328 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 1302 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 31 | W | 816 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 94 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 247 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 329 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 490 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 519 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 1314 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 1453 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 1 | A | 1723 | A | C4-C5-N7 | -5.41 | 108.00 | 110.70 |
| 1 | A | 2052 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 1 | A | 2276 | A | N9-C4-C5 | 5.41 | 107.96 | 105.80 |
| 31 | W | 150 | A | N3-C4-N9 | 5.41 | 131.72 | 127.40 |
| 31 | W | 659 | A | C8-N9-C4 | 5.41 | 107.96 | 105.80 |
| 1 | A | 73 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 91 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 130 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 199 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1092 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1745 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 2704 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 404 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 659 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 1210 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 31 | W | 1528 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 51 | y | 9 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 199 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 326 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 574 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1027 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1078 | A | N3-C4-N9 | 5.40 | 131.72 | 127.40 |
| 1 | A | 1235 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 1335 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 1593 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1844 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 2302 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 61 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 1 | A | 193 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 330 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 634 | A | C5-C6-N1 | 5.40 | 120.40 | 117.70 |
| 1 | A | 702 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 847 | A | N3-C4-N9 | 5.40 | 131.72 | 127.40 |
| 1 | A | 1222 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1788 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1998 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 74 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 31 | W | 501 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 674 | A | C4-C5-C6 | 5.40 | 119.70 | 117.00 |
| 31 | W | 1479 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 786 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 868 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 2089 | A | C4-C5-C6 | 5.40 | 119.70 | 117.00 |
| 31 | W | 799 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 31 | W | 824 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 31 | W | 924 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 31 | W | 1006 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 139 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 275 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 1 | A | 342 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1506 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1517 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 1542 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1663 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 2047 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 2 | B | 51 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 2 | B | 76 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 31 | W | 1435 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 31 | W | 1486 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 31 | W | 1510 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 52 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 176 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 1 | A | 661 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 1 | A | 974 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 1 | A | 1583 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 1 | A | 2339 | A | N9-C4-C5 | 5.40 | 107.96 | 105.80 |
| 31 | W | 161 | A | C8-N9-C4 | 5.40 | 107.96 | 105.80 |
| 31 | W | 1180 | A | C4-C5-N7 | -5.40 | 108.00 | 110.70 |
| 1 | A | 524 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 560 | A | C5-C6-N1 | 5.39 | 120.40 | 117.70 |
| 1 | A | 917 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 1036 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1066 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1253 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 2908 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 2 | B | 64 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 81 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 232 | A | N3-C4-N9 | 5.39 | 131.72 | 127.40 |
| 31 | W | 258 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 314 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 31 | W | 474 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 31 | W | 583 | A | N3-C4-N9 | 5.39 | 131.72 | 127.40 |
| 31 | W | 737 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 31 | W | 1031 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 125 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 600 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 652 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 715 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1724 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1928 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 2007 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 148 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 31 | W | 477 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 31 | W | 512 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 651 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 31 | W | 664 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 738 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 31 | W | 1166 | A | C5-C6-N1 | 5.39 | 120.40 | 117.70 |
| 1 | A | 144 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 469 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1995 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 2032 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 2262 | A | N3-C4-N9 | 5.39 | 131.71 | 127.40 |
| 31 | W | 390 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 31 | W | 460 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 64 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 307 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 354 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 592 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 630 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 715 | A | C5-C6-N1 | 5.39 | 120.39 | 117.70 |
| 1 | A | 727 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1286 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 1308 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1312 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1699 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 1 | A | 1722 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 2700 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 31 | W | 57 | A | N9-C4-C5 | 5.39 | 107.96 | 105.80 |
| 31 | W | 1247 | A | C8-N9-C4 | 5.39 | 107.96 | 105.80 |
| 51 | y | 14 | A | C4-C5-N7 | -5.39 | 108.00 | 110.70 |
| 1 | A | 448 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 1465 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 2018 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 31 | W | 1112 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 31 | W | 1179 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 207 | A | C4-C5-C6 | 5.39 | 119.69 | 117.00 |
| 1 | A | 305 | A | C8-N9-C4 | 5.39 | 107.95 | 105.80 |
| 1 | A | 667 | A | C8-N9-C4 | 5.39 | 107.95 | 105.80 |
| 1 | A | 2106 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 2303 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 1 | A | 2340 | A | N9-C4-C5 | 5.39 | 107.95 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|-------|-------------|----------|
| 1 | A | 2785 | U | P-O3'-C3' | 5.39 | 126.16 | 119.70 |
| 31 | W | 195 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 31 | W | 225 | A | C8-N9-C4 | 5.39 | 107.95 | 105.80 |
| 31 | W | 258 | A | N9-C4-C5 | 5.39 | 107.95 | 105.80 |
| 31 | W | 1260 | A | C8-N9-C4 | 5.39 | 107.95 | 105.80 |
| 31 | W | 1456 | A | C4-C5-N7 | -5.39 | 108.01 | 110.70 |
| 31 | W | 1509 | A | N9-C4-C5 | 5.39 | 107.95 | 105.80 |
| 1 | A | 259 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 943 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 947 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1074 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 1541 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1685 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1900 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 2919 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 372 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 31 | W | 518 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 1348 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1096 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 2059 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 28 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 1024 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 193 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 470 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1532 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 1913 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 2869 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 31 | W | 630 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 31 | W | 671 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 796 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 1092 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 1121 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 31 | W | 1490 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 653 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 2661 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 2 | B | 105 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 204 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 51 | 1 | 9 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 337 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 560 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 835 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 964 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1084 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1381 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1533 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1989 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 2846 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 14 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 95 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 369 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 904 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1244 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1930 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1942 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 2027 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 2387 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 2455 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 2526 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 290 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 555 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 568 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 669 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 713 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 1455 | A | C8-N9-C4 | 5.38 | 107.95 | 105.80 |
| 31 | W | 1466 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 1 | A | 307 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 1 | A | 1059 | A | C4-C5-N7 | -5.38 | 108.01 | 110.70 |
| 31 | W | 704 | A | N9-C4-C5 | 5.38 | 107.95 | 105.80 |
| 31 | W | 899 | A | N3-C4-N9 | 5.38 | 131.70 | 127.40 |
| 1 | A | 260 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 1 | A | 702 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 1 | A | 808 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 889 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 1 | A | 1340 | A | C4-C5-C6 | 5.37 | 119.69 | 117.00 |
| 1 | A | 1421 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 1948 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2389 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2455 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2511 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 31 | W | 1102 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 51 | y | 23 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 51 | 1 | 70 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 185 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 333 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 429 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 948 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 1445 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 1506 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 1 | A | 1636 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 1776 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 1 | A | 1957 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2066 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2106 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 31 | W | 278 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 31 | W | 1017 | A | C4-C5-N7 | -5.37 | 108.01 | 110.70 |
| 31 | W | 1488 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 537 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 715 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 1583 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 31 | W | 512 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 31 | W | 649 | A | C5-C6-N1 | 5.37 | 120.39 | 117.70 |
| 1 | A | 12 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 851 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 913 | A | C5-C6-N1 | 5.37 | 120.39 | 117.70 |
| 1 | A | 1713 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 2262 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2606 | A | N3-C4-N9 | 5.37 | 131.69 | 127.40 |
| 1 | A | 2875 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 31 | W | 1315 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 421 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 1919 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2722 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2860 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 31 | W | 1342 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 5 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 222 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 1 | A | 1020 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 1 | A | 1542 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2590 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 2595 | A | N9-C4-C5 | 5.37 | 107.95 | 105.80 |
| 31 | W | 94 | A | C4-C5-N7 | -5.37 | 108.02 | 110.70 |
| 31 | W | 711 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 31 | W | 796 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 31 | W | 825 | A | C8-N9-C4 | 5.37 | 107.95 | 105.80 |
| 1 | A | 1709 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 2 | B | 11 | A | C8-N9-C4 | 5.36 | 107.95 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 314 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 671 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 1028 | A | N9-C4-C5 | 5.36 | 107.95 | 105.80 |
| 31 | W | 1140 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 31 | W | 1179 | A | N9-C4-C5 | 5.36 | 107.95 | 105.80 |
| 31 | W | 1298 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 1442 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 51 | y | 44 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1029 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 1675 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 2018 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 2343 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 1103 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 61 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 407 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 634 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 653 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 673 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 1844 | A | N3-C4-N9 | 5.36 | 131.69 | 127.40 |
| 1 | A | 1850 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 2030 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 2777 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 31 | W | 94 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 31 | W | 120 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 254 | A | N3-C4-N9 | 5.36 | 131.69 | 127.40 |
| 31 | W | 474 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 1140 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 216 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1113 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1699 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 2089 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 2387 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 31 | W | 270 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 674 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 31 | W | 1405 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 185 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 259 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 279 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 1059 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 1361 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1768 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 2062 | A | C4-C5-C6 | 5.36 | 119.68 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1180 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 31 | W | 1247 | A | C4-C5-C6 | 5.36 | 119.68 | 117.00 |
| 31 | W | 1349 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 73 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 429 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 646 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 840 | A | C6-N1-C2 | -5.36 | 115.39 | 118.60 |
| 1 | A | 896 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1026 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1092 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1534 | A | N9-C4-C5 | 5.36 | 107.94 | 105.80 |
| 1 | A | 1588 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 1 | A | 1882 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 2026 | A | C5-C6-N1 | 5.36 | 120.38 | 117.70 |
| 31 | W | 282 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 572 | A | C4-C5-N7 | -5.36 | 108.02 | 110.70 |
| 31 | W | 1111 | A | C8-N9-C4 | 5.36 | 107.94 | 105.80 |
| 1 | A | 412 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1697 | A | C4-C5-N7 | -5.35 | 108.02 | 110.70 |
| 1 | A | 1929 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 31 | W | 150 | A | C4-C5-C6 | 5.35 | 119.68 | 117.00 |
| 1 | A | 326 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 500 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1291 | A | C4-C5-N7 | -5.35 | 108.02 | 110.70 |
| 1 | A | 1485 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 2329 | A | C5-C6-N1 | 5.35 | 120.38 | 117.70 |
| 31 | W | 74 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 31 | W | 372 | A | C4-C5-N7 | -5.35 | 108.02 | 110.70 |
| 31 | W | 404 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 31 | W | 715 | A | C4-C5-N7 | -5.35 | 108.02 | 110.70 |
| 31 | W | 1206 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 490 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 1905 | A | N3-C4-N9 | 5.35 | 131.68 | 127.40 |
| 31 | W | 1092 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 28 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 168 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 210 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 475 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 762 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1536 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 31 | W | 542 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 31 | W | 837 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1206 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 31 | W | 1257 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1243 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1667 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1778 | A | C8-N9-C4 | 5.35 | 107.94 | 105.80 |
| 1 | A | 1989 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 2000 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 2500 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 31 | W | 211 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 31 | W | 969 | A | N9-C4-C5 | 5.35 | 107.94 | 105.80 |
| 1 | A | 333 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 952 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 1724 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 2722 | A | C4-C5-N7 | -5.35 | 108.03 | 110.70 |
| 1 | A | 71 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 849 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 971 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 1 | A | 1258 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 1 | A | 1284 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2826 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2862 | A | C5-C6-N1 | 5.34 | 120.37 | 117.70 |
| 1 | A | 2898 | A | C5-C6-N1 | 5.34 | 120.37 | 117.70 |
| 31 | W | 1266 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 12 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 623 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2044 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 1 | A | 2919 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 31 | W | 1004 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 51 | y | 58 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 173 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 722 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 1421 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 1562 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 1734 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 1797 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 1 | A | 1885 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2402 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2812 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 31 | W | 389 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 31 | W | 438 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 31 | W | 519 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 31 | W | 919 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1384 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 51 | 1 | 14 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 274 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 1314 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 2027 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 2505 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2777 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 2 | B | 113 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 31 | W | 581 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 1 | A | 889 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 1767 | A | C8-N9-C4 | 5.34 | 107.94 | 105.80 |
| 1 | A | 2362 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 31 | W | 496 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 5 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 65 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 486 | A | C5-C6-N1 | 5.34 | 120.37 | 117.70 |
| 1 | A | 746 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 1 | A | 828 | A | C8-N9-C4 | 5.34 | 107.93 | 105.80 |
| 1 | A | 1266 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 1929 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 1 | A | 2329 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 31 | W | 251 | A | N9-C4-C5 | 5.34 | 107.94 | 105.80 |
| 31 | W | 457 | A | C4-C5-N7 | -5.34 | 108.03 | 110.70 |
| 31 | W | 775 | A | C4-C5-C6 | 5.34 | 119.67 | 117.00 |
| 31 | W | 1372 | A | C8-N9-C4 | 5.34 | 107.93 | 105.80 |
| 1 | A | 329 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1026 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1524 | A | C5-C6-N1 | 5.33 | 120.37 | 117.70 |
| 1 | A | 1721 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1816 | A | C5-C6-N1 | 5.33 | 120.37 | 117.70 |
| 2 | B | 13 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 1 | A | 130 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 1 | A | 882 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 1 | A | 970 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 1 | A | 1919 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 2 | B | 11 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 31 | W | 55 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 31 | W | 67 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 151 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 31 | W | 171 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 825 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 883 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1133 | A | C4-C5-C6 | 5.33 | 119.67 | 117.00 |
| 31 | W | 1185 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 51 | y | 9 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 51 | y | 70 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 51 | 1 | 21 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 268 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 1 | A | 1302 | A | N3-C4-N9 | 5.33 | 131.66 | 127.40 |
| 1 | A | 2844 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 775 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 978 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 31 | W | 1308 | A | C5-C6-N1 | 5.33 | 120.36 | 117.70 |
| 31 | W | 1509 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 1 | A | 948 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 1 | A | 987 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1258 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 129 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 173 | A | C4-C5-N7 | -5.33 | 108.03 | 110.70 |
| 31 | W | 1403 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 10 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1504 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 1 | A | 2898 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 31 | W | 352 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 31 | W | 1490 | A | C5-C6-N1 | 5.33 | 120.36 | 117.70 |
| 1 | A | 1393 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 1 | A | 2477 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 2898 | A | N3-C4-N9 | 5.33 | 131.66 | 127.40 |
| 31 | W | 491 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 31 | W | 1294 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 407 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 547 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1284 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 1 | A | 1615 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 1 | A | 1620 | A | C8-N9-C4 | 5.33 | 107.93 | 105.80 |
| 1 | A | 2482 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 1 | A | 2793 | A | N3-C4-N9 | 5.33 | 131.66 | 127.40 |
| 1 | A | 2908 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 31 | W | 118 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 31 | W | 236 | A | N9-C4-C5 | 5.33 | 107.93 | 105.80 |
| 31 | W | 987 | A | C4-C5-N7 | -5.33 | 108.04 | 110.70 |
| 1 | A | 90 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 958 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1096 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1283 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 31 | W | 1298 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 51 | y | 24 | A | C5-C6-N1 | 5.32 | 120.36 | 117.70 |
| 1 | A | 216 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 770 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1697 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1713 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1802 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 2462 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 2 | B | 43 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 31 | W | 1016 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 31 | W | 1523 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 51 | y | 21 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 126 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 388 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 486 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 559 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 913 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1265 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1392 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 2358 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 2719 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 31 | W | 333 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 162 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 758 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 1075 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1536 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 2845 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 2 | B | 18 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 2 | B | 56 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 867 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 922 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1316 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 1569 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 31 | W | 52 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 31 | W | 151 | A | N3-C4-N9 | 5.32 | 131.65 | 127.40 |
| 31 | W | 644 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 31 | W | 948 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 31 | W | 1513 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 144 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 161 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 265 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 437 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 753 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 782 | A | C4-C5-N7 | -5.32 | 108.04 | 110.70 |
| 1 | A | 1434 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 1 | A | 1490 | A | C5-C6-N1 | 5.32 | 120.36 | 117.70 |
| 1 | A | 2616 | A | C8-N9-C4 | 5.32 | 107.93 | 105.80 |
| 31 | W | 975 | A | N9-C4-C5 | 5.32 | 107.93 | 105.80 |
| 1 | A | 925 | A | C8-N9-C4 | 5.31 | 107.93 | 105.80 |
| 1 | A | 2369 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 2661 | A | C4-C5-N7 | -5.31 | 108.04 | 110.70 |
| 1 | A | 2734 | A | C4-C5-N7 | -5.31 | 108.04 | 110.70 |
| 1 | A | 2740 | A | C4-C5-N7 | -5.31 | 108.04 | 110.70 |
| 1 | A | 2848 | A | C8-N9-C4 | 5.31 | 107.93 | 105.80 |
| 1 | A | 53 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 391 | A | C4-C5-N7 | -5.31 | 108.04 | 110.70 |
| 1 | A | 1042 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 1188 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 1235 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 1453 | A | C4-C5-N7 | -5.31 | 108.04 | 110.70 |
| 1 | A | 2395 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 2754 | A | C4-C5-N7 | -5.31 | 108.04 | 110.70 |
| 31 | W | 1328 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 830 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1008 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 306 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 1283 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 1463 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 166 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 1003 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1003 | A | N3-C4-N9 | 5.31 | 131.65 | 127.40 |
| 1 | A | 1094 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1134 | A | C5-C6-N1 | 5.31 | 120.36 | 117.70 |
| 1 | A | 1844 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 2088 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 2619 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 793 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 918 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 1327 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 31 | W | 1386 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 1529 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 202 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 247 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1210 | A | C8-N9-C4 | 5.31 | 107.92 | 105.80 |
| 1 | A | 1265 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1426 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1695 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1818 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 2907 | A | C5-C6-N1 | 5.31 | 120.35 | 117.70 |
| 2 | B | 56 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 2 | B | 64 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 677 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 84 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 616 | A | C4-C5-N7 | -5.31 | 108.05 | 110.70 |
| 1 | A | 1392 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 31 | W | 1271 | A | N9-C4-C5 | 5.31 | 107.92 | 105.80 |
| 1 | A | 198 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 683 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1534 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 2327 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 31 | W | 120 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 142 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 644 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 31 | W | 762 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 1503 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 176 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 1357 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1813 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 2078 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 1342 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 173 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 222 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 459 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 1555 | A | N3-C4-N9 | 5.30 | 131.64 | 127.40 |
| 1 | A | 1680 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1791 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 2329 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 2500 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 2812 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 390 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 975 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 31 | W | 987 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 206 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 436 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 496 | A | C5-C6-N1 | 5.30 | 120.35 | 117.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1014 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1601 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 2517 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 31 | W | 128 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 31 | W | 771 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 929 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 31 | W | 1179 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1008 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 1930 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 2670 | A | N3-C4-N9 | 5.30 | 131.64 | 127.40 |
| 1 | A | 2827 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 236 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 339 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 925 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 970 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1244 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 1517 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 1 | A | 1885 | A | C8-N9-C4 | 5.30 | 107.92 | 105.80 |
| 1 | A | 2532 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 31 | W | 650 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 672 | A | N9-C4-C5 | 5.30 | 107.92 | 105.80 |
| 31 | W | 730 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 31 | W | 1225 | A | C4-C5-N7 | -5.30 | 108.05 | 110.70 |
| 1 | A | 2351 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 2 | B | 55 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 31 | W | 659 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 31 | W | 1283 | A | C8-N9-C4 | 5.29 | 107.92 | 105.80 |
| 51 | 1 | 24 | A | C5-C6-N1 | 5.29 | 120.35 | 117.70 |
| 1 | A | 14 | A | C4-C5-N7 | -5.29 | 108.05 | 110.70 |
| 1 | A | 1490 | A | C4-C5-N7 | -5.29 | 108.05 | 110.70 |
| 1 | A | 1710 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 2889 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 31 | W | 151 | A | C4-C5-C6 | 5.29 | 119.65 | 117.00 |
| 31 | W | 209 | A | C8-N9-C4 | 5.29 | 107.92 | 105.80 |
| 31 | W | 828 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 108 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 431 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 548 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 637 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 1266 | A | C8-N9-C4 | 5.29 | 107.92 | 105.80 |
| 1 | A | 2440 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 2851 | A | C4-C5-N7 | -5.29 | 108.05 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 2 | B | 46 | A | C5-C6-N1 | 5.29 | 120.35 | 117.70 |
| 2 | B | 114 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 31 | W | 67 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 31 | W | 117 | A | C4-C5-N7 | -5.29 | 108.05 | 110.70 |
| 51 | y | 70 | A | C8-N9-C4 | 5.29 | 107.92 | 105.80 |
| 1 | A | 1680 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 156 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 194 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 1073 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 1 | A | 1432 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 1473 | A | C4-C5-C6 | 5.29 | 119.64 | 117.00 |
| 1 | A | 2875 | A | N9-C4-C5 | 5.29 | 107.92 | 105.80 |
| 31 | W | 386 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 31 | W | 616 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 31 | W | 1102 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 95 | A | C5-C6-N1 | 5.29 | 120.34 | 117.70 |
| 1 | A | 908 | A | C8-N9-C4 | 5.29 | 107.92 | 105.80 |
| 1 | A | 1073 | A | C8-N9-C4 | 5.29 | 107.92 | 105.80 |
| 31 | W | 1355 | A | N3-C4-N9 | 5.29 | 131.63 | 127.40 |
| 1 | A | 518 | A | N9-C4-C5 | 5.29 | 107.91 | 105.80 |
| 1 | A | 1360 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 1838 | A | C8-N9-C4 | 5.29 | 107.91 | 105.80 |
| 1 | A | 2089 | A | N9-C4-C5 | 5.29 | 107.91 | 105.80 |
| 1 | A | 2270 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 1 | A | 2349 | A | C8-N9-C4 | 5.29 | 107.91 | 105.80 |
| 31 | W | 917 | A | C4-C5-N7 | -5.29 | 108.06 | 110.70 |
| 31 | W | 945 | A | C5-C6-N1 | 5.29 | 120.34 | 117.70 |
| 31 | W | 1407 | A | N9-C4-C5 | 5.29 | 107.91 | 105.80 |
| 1 | A | 247 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 273 | A | C8-N9-C4 | 5.28 | 107.91 | 105.80 |
| 1 | A | 1265 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 1638 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 2298 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 2595 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 61 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 305 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 724 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 1536 | A | C8-N9-C4 | 5.28 | 107.91 | 105.80 |
| 1 | A | 1579 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 1675 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 1695 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 1982 | A | N3-C4-N9 | 5.28 | 131.62 | 127.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|-------|-------------|----------|
| 1 | A | 2924 | A | C8-N9-C4 | 5.28 | 107.91 | 105.80 |
| 1 | A | 53 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 343 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 538 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 1233 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 1308 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 1506 | A | C8-N9-C4 | 5.28 | 107.91 | 105.80 |
| 1 | A | 2505 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 2810 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 183 | A | C4-C5-C6 | 5.28 | 119.64 | 117.00 |
| 1 | A | 2078 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 2916 | A | C5-C6-N1 | 5.28 | 120.34 | 117.70 |
| 31 | W | 617 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 31 | W | 1167 | C | C6-N1-C1' | -5.28 | 114.47 | 120.80 |
| 1 | A | 373 | A | C8-N9-C4 | 5.28 | 107.91 | 105.80 |
| 1 | A | 494 | A | N3-C4-N9 | 5.28 | 131.62 | 127.40 |
| 1 | A | 1520 | A | C5-C6-N1 | 5.28 | 120.34 | 117.70 |
| 1 | A | 1858 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 2844 | A | C5-C6-N1 | 5.28 | 120.34 | 117.70 |
| 2 | B | 50 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 31 | W | 301 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 139 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 162 | A | C8-N9-C4 | 5.28 | 107.91 | 105.80 |
| 1 | A | 448 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 993 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 1 | A | 1222 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 2497 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 2790 | A | C4-C5-N7 | -5.28 | 108.06 | 110.70 |
| 31 | W | 786 | A | N9-C4-C5 | 5.28 | 107.91 | 105.80 |
| 1 | A | 1774 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 1 | A | 1848 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 1 | A | 376 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 551 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 2907 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 31 | W | 1189 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 51 | 1 | 70 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 1 | A | 647 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1831 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 1 | A | 6 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 325 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 619 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1142 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1190 | A | C5-C6-N1 | 5.27 | 120.33 | 117.70 |
| 1 | A | 1404 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 1 | A | 1556 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 2043 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 1 | A | 2406 | A | C4-C5-N7 | -5.27 | 108.06 | 110.70 |
| 31 | W | 308 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 866 | A | C4-C5-N7 | -5.27 | 108.07 | 110.70 |
| 1 | A | 1142 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1201 | A | C4-C5-C6 | 5.27 | 119.63 | 117.00 |
| 1 | A | 1360 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1398 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1569 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 2047 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 2691 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 1 | A | 2794 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 31 | W | 459 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 31 | W | 475 | A | C8-N9-C4 | 5.27 | 107.91 | 105.80 |
| 31 | W | 985 | A | C4-C5-N7 | -5.27 | 108.07 | 110.70 |
| 31 | W | 1222 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 31 | W | 1466 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1335 | A | N9-C4-C5 | 5.27 | 107.91 | 105.80 |
| 1 | A | 1417 | A | N3-C4-N9 | 5.27 | 131.61 | 127.40 |
| 1 | A | 1054 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 1126 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 2060 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 2083 | A | N9-C4-C5 | 5.26 | 107.91 | 105.80 |
| 1 | A | 2887 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 31 | W | 439 | A | C4-C5-C6 | 5.26 | 119.63 | 117.00 |
| 31 | W | 1486 | A | C8-N9-C4 | 5.26 | 107.91 | 105.80 |
| 1 | A | 260 | A | N9-C4-C5 | 5.26 | 107.91 | 105.80 |
| 1 | A | 1222 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 41 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 117 | A | C8-N9-C4 | 5.26 | 107.91 | 105.80 |
| 1 | A | 1581 | A | C5-C6-N1 | 5.26 | 120.33 | 117.70 |
| 1 | A | 1710 | A | C5-C6-N1 | 5.26 | 120.33 | 117.70 |
| 1 | A | 1723 | A | C8-N9-C4 | 5.26 | 107.91 | 105.80 |
| 1 | A | 2826 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 81 | A | N9-C4-C5 | 5.26 | 107.91 | 105.80 |
| 31 | W | 140 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 485 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 684 | A | N9-C4-C5 | 5.26 | 107.91 | 105.80 |
| 31 | W | 899 | A | C4-C5-C6 | 5.26 | 119.63 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1014 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 436 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 486 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 952 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 1188 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 1627 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 1901 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 2303 | A | C8-N9-C4 | 5.26 | 107.90 | 105.80 |
| 1 | A | 2381 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 2461 | A | C8-N9-C4 | 5.26 | 107.90 | 105.80 |
| 31 | W | 390 | A | C8-N9-C4 | 5.26 | 107.90 | 105.80 |
| 31 | W | 518 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 933 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 318 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 623 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 1123 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 1291 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 35 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 72 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 51 | 1 | 24 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 705 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 1 | A | 1700 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 1700 | A | C5-C6-N1 | 5.26 | 120.33 | 117.70 |
| 1 | A | 1814 | A | C5-C6-N1 | 5.26 | 120.33 | 117.70 |
| 1 | A | 2507 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 2571 | A | C8-N9-C4 | 5.26 | 107.90 | 105.80 |
| 31 | W | 604 | A | N9-C4-C5 | 5.26 | 107.90 | 105.80 |
| 31 | W | 631 | A | C8-N9-C4 | 5.26 | 107.90 | 105.80 |
| 31 | W | 1284 | A | C4-C5-N7 | -5.26 | 108.07 | 110.70 |
| 1 | A | 1814 | A | C8-N9-C4 | 5.25 | 107.90 | 105.80 |
| 31 | W | 211 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 537 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 2 | B | 50 | A | C4-C5-N7 | -5.25 | 108.07 | 110.70 |
| 31 | W | 114 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 281 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 296 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 572 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 171 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 910 | A | C4-C5-N7 | -5.25 | 108.07 | 110.70 |
| 1 | A | 1614 | A | C8-N9-C4 | 5.25 | 107.90 | 105.80 |
| 1 | A | 2694 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 234 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 31 | W | 459 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 31 | W | 711 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 281 | A | C5-C6-N1 | 5.25 | 120.33 | 117.70 |
| 1 | A | 560 | A | C8-N9-C4 | 5.25 | 107.90 | 105.80 |
| 1 | A | 828 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 2296 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 2658 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 2 | B | 20 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 494 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 630 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 656 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 715 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 1179 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 1388 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 2517 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 44 | A | C8-N9-C4 | 5.25 | 107.90 | 105.80 |
| 1 | A | 459 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 1966 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 2547 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 2740 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 911 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 1197 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 51 | 1 | 76 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 1 | A | 44 | A | C5-C6-N1 | 5.25 | 120.32 | 117.70 |
| 1 | A | 592 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 31 | W | 381 | A | C4-C5-N7 | -5.25 | 108.08 | 110.70 |
| 31 | W | 1112 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 51 | 1 | 70 | A | N9-C4-C5 | 5.25 | 107.90 | 105.80 |
| 1 | A | 13 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 758 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 904 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 1 | A | 1294 | A | C4'-C3'-O3' | -5.24 | 98.39 | 109.40 |
| 1 | A | 2402 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 2464 | A | C8-N9-C4 | 5.24 | 107.90 | 105.80 |
| 31 | W | 757 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 31 | W | 1261 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 31 | W | 1383 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 51 | 1 | 23 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 1 | A | 1202 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 31 | W | 1090 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 477 | A | C8-N9-C4 | 5.24 | 107.90 | 105.80 |
| 1 | A | 525 | A | C5-C6-N1 | 5.24 | 120.32 | 117.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 616 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 647 | A | C5-C6-N1 | 5.24 | 120.32 | 117.70 |
| 1 | A | 828 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 1815 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 2754 | A | C5-C6-N1 | 5.24 | 120.32 | 117.70 |
| 31 | W | 631 | A | N3-C4-N9 | 5.24 | 131.59 | 127.40 |
| 31 | W | 1155 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 31 | W | 1161 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 31 | W | 1247 | A | N3-C4-N9 | 5.24 | 131.59 | 127.40 |
| 31 | W | 1333 | A | C8-N9-C4 | 5.24 | 107.90 | 105.80 |
| 51 | y | 70 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 51 | 1 | 24 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 1 | A | 61 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 1 | A | 677 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 1096 | A | N9-C4-C5 | 5.24 | 107.90 | 105.80 |
| 1 | A | 2358 | A | C5-C6-N1 | 5.24 | 120.32 | 117.70 |
| 1 | A | 2844 | A | C8-N9-C4 | 5.24 | 107.89 | 105.80 |
| 2 | B | 20 | A | C8-N9-C4 | 5.24 | 107.89 | 105.80 |
| 31 | W | 644 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 31 | W | 679 | A | N9-C4-C5 | 5.24 | 107.89 | 105.80 |
| 1 | A | 421 | A | N9-C4-C5 | 5.24 | 107.89 | 105.80 |
| 1 | A | 504 | A | C4-C5-C6 | 5.24 | 119.62 | 117.00 |
| 1 | A | 2395 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 31 | W | 910 | A | N9-C4-C5 | 5.24 | 107.89 | 105.80 |
| 1 | A | 171 | A | C5-C6-N1 | 5.24 | 120.32 | 117.70 |
| 1 | A | 1442 | A | C5-C6-N1 | 5.24 | 120.32 | 117.70 |
| 1 | A | 1760 | A | C8-N9-C4 | 5.24 | 107.89 | 105.80 |
| 1 | A | 1966 | A | C4-C5-N7 | -5.24 | 108.08 | 110.70 |
| 31 | W | 457 | A | C4-C5-C6 | 5.24 | 119.62 | 117.00 |
| 1 | A | 782 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 958 | A | C8-N9-C4 | 5.23 | 107.89 | 105.80 |
| 1 | A | 1054 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 1967 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 31 | W | 910 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 790 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 1569 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 1999 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 2357 | A | C8-N9-C4 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2778 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 2810 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2844 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 31 | W | 290 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 724 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 31 | W | 811 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 31 | W | 1143 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 220 | A | C8-N9-C4 | 5.23 | 107.89 | 105.80 |
| 1 | A | 1653 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 2106 | A | C8-N9-C4 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2794 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 31 | W | 945 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 31 | W | 1160 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 31 | W | 1178 | A | C8-N9-C4 | 5.23 | 107.89 | 105.80 |
| 1 | A | 1888 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 31 | W | 1297 | A | C4-C5-N7 | -5.23 | 108.08 | 110.70 |
| 1 | A | 1721 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2026 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 1 | A | 2390 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2686 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 1 | A | 2831 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 31 | W | 382 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 31 | W | 532 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 31 | W | 844 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 31 | W | 993 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 31 | W | 993 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 1895 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2007 | A | N9-C4-C5 | 5.23 | 107.89 | 105.80 |
| 1 | A | 2436 | A | C5-C6-N1 | 5.23 | 120.31 | 117.70 |
| 1 | A | 2662 | A | C4-C5-N7 | -5.23 | 108.09 | 110.70 |
| 1 | A | 254 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 388 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 504 | A | C5-C6-N1 | 5.22 | 120.31 | 117.70 |
| 1 | A | 593 | A | C5-C6-N1 | 5.22 | 120.31 | 117.70 |
| 1 | A | 896 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 1453 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 1480 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 1778 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 1845 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 31 | W | 491 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 31 | W | 1315 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 31 | W | 1493 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 1619 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 31 | W | 650 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 31 | W | 1206 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 51 | 1 | 23 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 126 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 254 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 31 | W | 984 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 31 | W | 1427 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 140 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 305 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 374 | A | N3-C4-N9 | 5.22 | 131.58 | 127.40 |
| 1 | A | 868 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 2296 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 1 | A | 2441 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 2916 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 31 | W | 52 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 31 | W | 911 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 31 | W | 1296 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 1305 | A | N3-C4-N9 | 5.22 | 131.57 | 127.40 |
| 1 | A | 1905 | A | C4-C5-C6 | 5.22 | 119.61 | 117.00 |
| 31 | W | 129 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 31 | W | 386 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 31 | W | 504 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 150 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 1067 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 1221 | A | C4-C5-N7 | -5.22 | 108.09 | 110.70 |
| 1 | A | 1722 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 1858 | A | N9-C4-C5 | 5.22 | 107.89 | 105.80 |
| 1 | A | 2030 | A | C8-N9-C4 | 5.22 | 107.89 | 105.80 |
| 1 | A | 2790 | A | C5-C6-N1 | 5.22 | 120.31 | 117.70 |
| 31 | W | 74 | A | C5-C6-N1 | 5.22 | 120.31 | 117.70 |
| 1 | A | 1672 | A | C4-C5-N7 | -5.21 | 108.09 | 110.70 |
| 1 | A | 1778 | A | C5-C6-N1 | 5.21 | 120.31 | 117.70 |
| 1 | A | 2662 | A | C5-C6-N1 | 5.21 | 120.31 | 117.70 |
| 2 | B | 46 | A | N9-C4-C5 | 5.21 | 107.89 | 105.80 |
| 31 | W | 459 | A | C8-N9-C4 | 5.21 | 107.89 | 105.80 |
| 31 | W | 1478 | A | C4-C5-N7 | -5.21 | 108.09 | 110.70 |
| 1 | A | 849 | A | C8-N9-C4 | 5.21 | 107.88 | 105.80 |
| 1 | A | 1034 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 1 | A | 2468 | A | C8-N9-C4 | 5.21 | 107.89 | 105.80 |
| 31 | W | 397 | A | C4-C5-N7 | -5.21 | 108.09 | 110.70 |
| 31 | W | 844 | A | C5-C6-N1 | 5.21 | 120.31 | 117.70 |
| 51 | y | 14 | A | N9-C4-C5 | 5.21 | 107.89 | 105.80 |
| 1 | A | 391 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 1 | A | 2440 | A | C8-N9-C4 | 5.21 | 107.88 | 105.80 |
| 1 | A | 2889 | A | C4-C5-N7 | -5.21 | 108.09 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 605 | A | C4-C5-N7 | -5.21 | 108.09 | 110.70 |
| 1 | A | 6 | A | C4-C5-N7 | -5.21 | 108.10 | 110.70 |
| 1 | A | 658 | A | C4-C5-N7 | -5.21 | 108.10 | 110.70 |
| 1 | A | 1131 | A | C4-C5-N7 | -5.21 | 108.09 | 110.70 |
| 31 | W | 715 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 1 | A | 84 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 1 | A | 168 | A | C4-C5-N7 | -5.21 | 108.10 | 110.70 |
| 1 | A | 1188 | A | N3-C4-N9 | 5.21 | 131.56 | 127.40 |
| 1 | A | 1316 | A | C5-C6-N1 | 5.21 | 120.30 | 117.70 |
| 1 | A | 1388 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 1 | A | 2405 | A | C8-N9-C4 | 5.21 | 107.88 | 105.80 |
| 1 | A | 2708 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 2 | B | 51 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 31 | W | 117 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 31 | W | 1065 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 31 | W | 1225 | A | N9-C4-C5 | 5.21 | 107.88 | 105.80 |
| 1 | A | 226 | A | C5-C6-N1 | 5.21 | 120.30 | 117.70 |
| 1 | A | 689 | A | C8-N9-C4 | 5.21 | 107.88 | 105.80 |
| 1 | A | 1820 | A | C8-N9-C4 | 5.20 | 107.88 | 105.80 |
| 1 | A | 2507 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 31 | W | 282 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 125 | A | C5-C6-N1 | 5.20 | 120.30 | 117.70 |
| 1 | A | 2900 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 677 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 561 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 790 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 1006 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 1490 | A | C8-N9-C4 | 5.20 | 107.88 | 105.80 |
| 1 | A | 2663 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 1016 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 1278 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 51 | y | 44 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 369 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 549 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 964 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 971 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 2339 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 2421 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 31 | W | 76 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 1575 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 485 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 1160 | A | C5-C6-N1 | 5.20 | 120.30 | 117.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1529 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 517 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 561 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 574 | A | C8-N9-C4 | 5.20 | 107.88 | 105.80 |
| 1 | A | 786 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 1020 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 1905 | A | C8-N9-C4 | 5.20 | 107.88 | 105.80 |
| 1 | A | 2459 | A | C8-N9-C4 | 5.20 | 107.88 | 105.80 |
| 1 | A | 2719 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 1 | A | 2767 | A | N9-C4-C5 | 5.20 | 107.88 | 105.80 |
| 31 | W | 439 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 823 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 31 | W | 838 | A | C4-C5-N7 | -5.20 | 108.10 | 110.70 |
| 1 | A | 1614 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 1 | A | 1928 | A | C4-C5-N7 | -5.19 | 108.10 | 110.70 |
| 1 | A | 2000 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 1 | A | 769 | A | C4-C5-N7 | -5.19 | 108.10 | 110.70 |
| 1 | A | 1027 | A | C4-C5-N7 | -5.19 | 108.10 | 110.70 |
| 1 | A | 1480 | A | C4-C5-N7 | -5.19 | 108.10 | 110.70 |
| 31 | W | 161 | A | C4-C5-N7 | -5.19 | 108.10 | 110.70 |
| 31 | W | 433 | A | C5-C6-N1 | 5.19 | 120.30 | 117.70 |
| 31 | W | 1133 | A | N3-C4-N9 | 5.19 | 131.56 | 127.40 |
| 31 | W | 1456 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 1 | A | 1253 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 1 | A | 1710 | A | C4-C5-N7 | -5.19 | 108.11 | 110.70 |
| 1 | A | 1945 | A | C8-N9-C4 | 5.19 | 107.88 | 105.80 |
| 1 | A | 2349 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 31 | W | 308 | A | C4-C5-N7 | -5.19 | 108.11 | 110.70 |
| 31 | W | 1161 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 31 | W | 1238 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 1 | A | 2316 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 1 | A | 2365 | A | C4-C5-N7 | -5.19 | 108.11 | 110.70 |
| 1 | A | 2407 | A | C8-N9-C4 | 5.19 | 107.88 | 105.80 |
| 1 | A | 2787 | A | C4-C5-N7 | -5.19 | 108.11 | 110.70 |
| 31 | W | 462 | A | N9-C4-C5 | 5.19 | 107.88 | 105.80 |
| 31 | W | 1256 | A | C4-C5-N7 | -5.19 | 108.11 | 110.70 |
| 1 | A | 374 | A | C4-C5-C6 | 5.19 | 119.59 | 117.00 |
| 1 | A | 1655 | A | C8-N9-C4 | 5.19 | 107.87 | 105.80 |
| 31 | W | 838 | A | C5-C6-N1 | 5.19 | 120.29 | 117.70 |
| 1 | A | 1848 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 2805 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 31 | W | 917 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 945 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 31 | W | 1270 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 31 | W | 1463 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 108 | A | C5-C6-N1 | 5.18 | 120.29 | 117.70 |
| 1 | A | 689 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 1 | A | 1021 | A | C8-N9-C4 | 5.18 | 107.87 | 105.80 |
| 1 | A | 1789 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 31 | W | 270 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 1161 | A | C5-C6-N1 | 5.18 | 120.29 | 117.70 |
| 1 | A | 1194 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 2 | B | 46 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 1 | A | 353 | A | C8-N9-C4 | 5.18 | 107.87 | 105.80 |
| 1 | A | 1360 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 1375 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 1506 | A | C5-C6-N1 | 5.18 | 120.29 | 117.70 |
| 1 | A | 2441 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 2511 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 31 | W | 323 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 31 | W | 933 | A | C5-C6-N1 | 5.18 | 120.29 | 117.70 |
| 1 | A | 1709 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 31 | W | 548 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 31 | W | 1248 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 1 | A | 1774 | A | C8-N9-C4 | 5.18 | 107.87 | 105.80 |
| 1 | A | 2851 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 31 | W | 282 | A | C5-C6-N1 | 5.18 | 120.29 | 117.70 |
| 31 | W | 323 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 31 | W | 616 | A | N9-C4-C5 | 5.18 | 107.87 | 105.80 |
| 31 | W | 911 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 31 | W | 1155 | A | C4-C5-N7 | -5.18 | 108.11 | 110.70 |
| 1 | A | 183 | A | N3-C4-N9 | 5.17 | 131.54 | 127.40 |
| 1 | A | 1075 | A | C4-C5-N7 | -5.17 | 108.11 | 110.70 |
| 31 | W | 1014 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 31 | W | 1288 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 476 | A | C8-N9-C4 | 5.17 | 107.87 | 105.80 |
| 1 | A | 1461 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 1485 | A | C4-C5-N7 | -5.17 | 108.11 | 110.70 |
| 1 | A | 2330 | A | C8-N9-C4 | 5.17 | 107.87 | 105.80 |
| 31 | W | 1167 | C | N3-C2-O2 | -5.17 | 118.28 | 121.90 |
| 31 | W | 1490 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 236 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 971 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 1074 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1340 | A | C4-C5-N7 | -5.17 | 108.11 | 110.70 |
| 31 | W | 1427 | A | C4-C5-N7 | -5.17 | 108.11 | 110.70 |
| 1 | A | 526 | A | C4-C5-C6 | 5.17 | 119.58 | 117.00 |
| 1 | A | 673 | A | C4-C5-N7 | -5.17 | 108.11 | 110.70 |
| 1 | A | 1524 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 2454 | A | C4-C5-N7 | -5.17 | 108.11 | 110.70 |
| 1 | A | 876 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 2704 | A | C8-N9-C4 | 5.17 | 107.87 | 105.80 |
| 2 | B | 39 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 31 | W | 382 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 31 | W | 1026 | A | C4-C5-N7 | -5.17 | 108.12 | 110.70 |
| 1 | A | 507 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 1019 | A | C4-C5-N7 | -5.17 | 108.12 | 110.70 |
| 1 | A | 1149 | A | C4-C5-N7 | -5.17 | 108.12 | 110.70 |
| 1 | A | 1672 | A | C5-C6-N1 | 5.17 | 120.28 | 117.70 |
| 1 | A | 1768 | A | C4-C5-N7 | -5.17 | 108.12 | 110.70 |
| 1 | A | 2297 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 31 | W | 1341 | A | C8-N9-C4 | 5.17 | 107.87 | 105.80 |
| 1 | A | 1006 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 1606 | A | C4-C5-N7 | -5.17 | 108.12 | 110.70 |
| 1 | A | 2406 | A | N9-C4-C5 | 5.17 | 107.87 | 105.80 |
| 1 | A | 118 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 1 | A | 1286 | A | C5-C6-N1 | 5.16 | 120.28 | 117.70 |
| 31 | W | 1160 | A | N9-C4-C5 | 5.16 | 107.87 | 105.80 |
| 1 | A | 2270 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 31 | W | 140 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 1 | A | 6 | A | C5-C6-N1 | 5.16 | 120.28 | 117.70 |
| 1 | A | 133 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 1 | A | 185 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 1 | A | 390 | A | C8-N9-C4 | 5.16 | 107.86 | 105.80 |
| 1 | A | 690 | A | C5-C6-N1 | 5.16 | 120.28 | 117.70 |
| 1 | A | 1197 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 1 | A | 1876 | A | C8-N9-C4 | 5.16 | 107.86 | 105.80 |
| 31 | W | 605 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 31 | W | 672 | A | C5-C6-N1 | 5.16 | 120.28 | 117.70 |
| 31 | W | 1327 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 1 | A | 1614 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 1 | A | 1883 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 31 | W | 605 | A | C5-C6-N1 | 5.16 | 120.28 | 117.70 |
| 31 | W | 913 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 31 | W | 969 | A | C8-N9-C4 | 5.16 | 107.86 | 105.80 |
| 31 | W | 1205 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 53 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 1 | A | 1562 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 1 | A | 2734 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 31 | W | 649 | A | C4-C5-N7 | -5.16 | 108.12 | 110.70 |
| 1 | A | 1201 | A | N3-C4-N9 | 5.16 | 131.52 | 127.40 |
| 1 | A | 2042 | A | C5-C6-N1 | 5.16 | 120.28 | 117.70 |
| 31 | W | 1272 | A | N9-C4-C5 | 5.16 | 107.86 | 105.80 |
| 1 | A | 870 | A | C4-C5-N7 | -5.15 | 108.12 | 110.70 |
| 1 | A | 1680 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 1700 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 1839 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 2887 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 31 | W | 996 | A | C4-C5-N7 | -5.15 | 108.12 | 110.70 |
| 1 | A | 551 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 870 | A | C5-C6-N1 | 5.15 | 120.28 | 117.70 |
| 1 | A | 2351 | A | C5-C6-N1 | 5.15 | 120.28 | 117.70 |
| 31 | W | 696 | A | C4-C5-N7 | -5.15 | 108.12 | 110.70 |
| 31 | W | 1369 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 1655 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 2083 | A | C4-C5-N7 | -5.15 | 108.13 | 110.70 |
| 31 | W | 391 | A | C4-C5-N7 | -5.15 | 108.12 | 110.70 |
| 1 | A | 156 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 31 | W | 278 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 31 | W | 1234 | A | C4-C5-N7 | -5.15 | 108.13 | 110.70 |
| 31 | W | 1341 | A | C4-C5-N7 | -5.15 | 108.13 | 110.70 |
| 1 | A | 1103 | A | C5-C6-N1 | 5.15 | 120.27 | 117.70 |
| 1 | A | 1313 | A | N9-C4-C5 | 5.15 | 107.86 | 105.80 |
| 1 | A | 1520 | A | C4-C5-N7 | -5.15 | 108.13 | 110.70 |
| 1 | A | 752 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 1 | A | 1776 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 1 | A | 133 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 1 | A | 970 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 1 | A | 1941 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 1 | A | 2468 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 1 | A | 2663 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 1 | A | 2860 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 31 | W | 721 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 31 | W | 969 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 31 | W | 361 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 31 | W | 844 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 1 | A | 273 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 1 | A | 526 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1883 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 1 | A | 2848 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 31 | W | 457 | A | C8-N9-C4 | 5.14 | 107.86 | 105.80 |
| 31 | W | 1355 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 1 | A | 841 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 31 | W | 1016 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 31 | W | 1234 | A | N9-C4-C5 | 5.14 | 107.86 | 105.80 |
| 31 | W | 1256 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 1 | A | 656 | A | C8-N9-C4 | 5.14 | 107.85 | 105.80 |
| 1 | A | 1100 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 1 | A | 2662 | A | N9-C4-C5 | 5.14 | 107.85 | 105.80 |
| 1 | A | 2793 | A | C5-C6-N1 | 5.14 | 120.27 | 117.70 |
| 31 | W | 114 | A | C4-C5-N7 | -5.14 | 108.13 | 110.70 |
| 31 | W | 611 | A | N9-C4-C5 | 5.14 | 107.85 | 105.80 |
| 1 | A | 769 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 1 | A | 1221 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 2 | B | 71 | A | C8-N9-C4 | 5.13 | 107.85 | 105.80 |
| 31 | W | 337 | A | C4-C5-N7 | -5.13 | 108.13 | 110.70 |
| 1 | A | 537 | A | C4-C5-N7 | -5.13 | 108.13 | 110.70 |
| 1 | A | 2302 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 1 | A | 2793 | A | C4-C5-C6 | 5.13 | 119.57 | 117.00 |
| 1 | A | 53 | A | C5-C6-N1 | 5.13 | 120.27 | 117.70 |
| 1 | A | 369 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 1 | A | 1123 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 1 | A | 1417 | A | C5-C6-N1 | 5.13 | 120.27 | 117.70 |
| 31 | W | 507 | A | C5-C6-N6 | -5.13 | 119.59 | 123.70 |
| 31 | W | 617 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 1 | A | 21 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 1 | A | 258 | A | C4-C5-N7 | -5.13 | 108.14 | 110.70 |
| 1 | A | 302 | A | C8-N9-C4 | 5.13 | 107.85 | 105.80 |
| 1 | A | 265 | A | C4-C5-N7 | -5.13 | 108.14 | 110.70 |
| 1 | A | 560 | A | C4-C5-N7 | -5.13 | 108.14 | 110.70 |
| 1 | A | 2663 | A | C5-C6-N1 | 5.13 | 120.27 | 117.70 |
| 31 | W | 711 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 31 | W | 381 | A | N9-C4-C5 | 5.13 | 107.85 | 105.80 |
| 31 | W | 1022 | A | C5-C6-N1 | 5.13 | 120.26 | 117.70 |
| 1 | A | 2062 | A | N3-C4-N9 | 5.12 | 131.50 | 127.40 |
| 1 | A | 763 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 1 | A | 1100 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 1 | A | 1131 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 1 | A | 1477 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 31 | W | 1288 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1190 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 1 | A | 1608 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 31 | W | 1188 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 31 | W | 1245 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 1 | A | 2848 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 1 | A | 622 | A | C8-N9-C4 | 5.12 | 107.85 | 105.80 |
| 1 | A | 692 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 1 | A | 1417 | A | C4-C5-C6 | 5.12 | 119.56 | 117.00 |
| 1 | A | 1814 | A | N3-C4-N9 | 5.12 | 131.50 | 127.40 |
| 1 | A | 1919 | A | C4-C5-C6 | 5.12 | 119.56 | 117.00 |
| 1 | A | 2339 | A | C8-N9-C4 | 5.12 | 107.85 | 105.80 |
| 31 | W | 724 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 31 | W | 1238 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 1 | A | 1491 | A | C8-N9-C4 | 5.12 | 107.85 | 105.80 |
| 1 | A | 2080 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 31 | W | 344 | A | C4-C5-N7 | -5.12 | 108.14 | 110.70 |
| 51 | y | 58 | A | N9-C4-C5 | 5.12 | 107.85 | 105.80 |
| 1 | A | 1404 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 1620 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 1721 | A | C4-C5-N7 | -5.11 | 108.14 | 110.70 |
| 1 | A | 2735 | A | C5-C6-N1 | 5.11 | 120.26 | 117.70 |
| 2 | B | 25 | A | C4-C5-N7 | -5.11 | 108.14 | 110.70 |
| 31 | W | 948 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 225 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 318 | A | C5-C6-N1 | 5.11 | 120.26 | 117.70 |
| 1 | A | 993 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 1286 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 31 | W | 713 | A | C4-C5-N7 | -5.11 | 108.14 | 110.70 |
| 51 | 1 | 44 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 390 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 1532 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 15 | O | 22 | LEU | CA-CB-CG | 5.11 | 127.06 | 115.30 |
| 1 | A | 2837 | A | C5-C6-N1 | 5.11 | 120.25 | 117.70 |
| 31 | W | 1463 | A | C4-C5-N7 | -5.11 | 108.14 | 110.70 |
| 1 | A | 1008 | A | C5-C6-N1 | 5.11 | 120.25 | 117.70 |
| 1 | A | 1074 | A | C5-C6-N1 | 5.11 | 120.25 | 117.70 |
| 1 | A | 2327 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 31 | W | 1188 | A | C4-C5-N7 | -5.11 | 108.15 | 110.70 |
| 1 | A | 462 | A | N9-C4-C5 | 5.11 | 107.84 | 105.80 |
| 1 | A | 1480 | A | C8-N9-C4 | 5.11 | 107.84 | 105.80 |
| 1 | A | 1638 | A | C5-C6-N1 | 5.11 | 120.25 | 117.70 |
| 1 | A | 2862 | A | C4-C5-N7 | -5.11 | 108.15 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 230 | A | C4-C5-N7 | -5.10 | 108.15 | 110.70 |
| 1 | A | 630 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 1 | A | 1653 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 1 | A | 1981 | A | C8-N9-C4 | 5.10 | 107.84 | 105.80 |
| 1 | A | 2407 | A | C4-C5-N7 | -5.10 | 108.15 | 110.70 |
| 1 | A | 2916 | A | N3-C4-N9 | 5.10 | 131.48 | 127.40 |
| 31 | W | 72 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 51 | 1 | 76 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 1 | A | 133 | A | C5-C6-N1 | 5.10 | 120.25 | 117.70 |
| 1 | A | 1776 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 31 | W | 568 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 31 | W | 758 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 31 | W | 1358 | A | C4-C5-N7 | -5.10 | 108.15 | 110.70 |
| 31 | W | 1405 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 31 | W | 1486 | A | C5-C6-N1 | 5.10 | 120.25 | 117.70 |
| 1 | A | 102 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 1 | A | 1900 | A | C8-N9-C4 | 5.10 | 107.84 | 105.80 |
| 31 | W | 1366 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 51 | 1 | 9 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 1 | A | 1412 | A | N9-C4-C5 | 5.10 | 107.84 | 105.80 |
| 31 | W | 933 | A | C4-C5-N7 | -5.10 | 108.15 | 110.70 |
| 1 | A | 656 | A | C5-C6-N1 | 5.09 | 120.25 | 117.70 |
| 1 | A | 692 | A | N9-C4-C5 | 5.09 | 107.84 | 105.80 |
| 1 | A | 2066 | A | C5-C6-N1 | 5.09 | 120.25 | 117.70 |
| 31 | W | 1517 | A | C5-C6-N1 | 5.09 | 120.25 | 117.70 |
| 1 | A | 1925 | A | C4-C5-N7 | -5.09 | 108.15 | 110.70 |
| 1 | A | 2819 | A | N9-C4-C5 | 5.09 | 107.84 | 105.80 |
| 31 | W | 669 | A | C5-C6-N1 | 5.09 | 120.25 | 117.70 |
| 1 | A | 1727 | A | N9-C4-C5 | 5.09 | 107.84 | 105.80 |
| 1 | A | 2831 | A | C8-N9-C4 | 5.09 | 107.84 | 105.80 |
| 31 | W | 758 | A | C4-C5-N7 | -5.09 | 108.16 | 110.70 |
| 31 | W | 1297 | A | N9-C4-C5 | 5.09 | 107.84 | 105.80 |
| 1 | A | 882 | A | N9-C4-C5 | 5.09 | 107.83 | 105.80 |
| 1 | A | 943 | A | N9-C4-C5 | 5.09 | 107.84 | 105.80 |
| 1 | A | 1149 | A | N9-C4-C5 | 5.09 | 107.84 | 105.80 |
| 31 | W | 161 | A | N9-C4-C5 | 5.09 | 107.83 | 105.80 |
| 1 | A | 527 | A | C8-N9-C4 | 5.09 | 107.83 | 105.80 |
| 1 | A | 619 | A | C5-C6-N1 | 5.09 | 120.24 | 117.70 |
| 1 | A | 658 | A | C8-N9-C4 | 5.09 | 107.83 | 105.80 |
| 1 | A | 1672 | A | N9-C4-C5 | 5.09 | 107.83 | 105.80 |
| 1 | A | 774 | A | C4-C5-N7 | -5.09 | 108.16 | 110.70 |
| 1 | A | 1020 | A | C5-C6-N1 | 5.09 | 120.24 | 117.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1244 | A | C5-C6-N1 | 5.09 | 120.24 | 117.70 |
| 1 | A | 2270 | A | C5-C6-N1 | 5.09 | 120.24 | 117.70 |
| 1 | A | 2402 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 1 | A | 2463 | A | C8-N9-C4 | 5.08 | 107.83 | 105.80 |
| 31 | W | 439 | A | C8-N9-C4 | 5.08 | 107.83 | 105.80 |
| 1 | A | 150 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 1 | A | 236 | A | C5-C6-N6 | -5.08 | 119.63 | 123.70 |
| 1 | A | 647 | A | C4-C5-C6 | 5.08 | 119.54 | 117.00 |
| 1 | A | 724 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 1 | A | 1197 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 1 | A | 2907 | A | C5-C6-N6 | -5.08 | 119.64 | 123.70 |
| 31 | W | 1259 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 31 | W | 1341 | A | N9-C4-C5 | 5.08 | 107.83 | 105.80 |
| 1 | A | 2500 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 1 | A | 2619 | A | C5-C6-N6 | -5.08 | 119.64 | 123.70 |
| 31 | W | 452 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 1 | A | 1027 | A | C8-N9-C4 | 5.08 | 107.83 | 105.80 |
| 31 | W | 335 | A | C4-C5-N7 | -5.08 | 108.16 | 110.70 |
| 1 | A | 699 | A | C8-N9-C4 | 5.08 | 107.83 | 105.80 |
| 1 | A | 1305 | A | C4-C5-C6 | 5.08 | 119.54 | 117.00 |
| 31 | W | 617 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 31 | W | 775 | A | C5-C6-N1 | 5.08 | 120.24 | 117.70 |
| 51 | y | 24 | A | C4-C5-N7 | -5.08 | 108.16 | 110.70 |
| 1 | A | 268 | A | C8-N9-C4 | 5.07 | 107.83 | 105.80 |
| 1 | A | 841 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 1 | A | 956 | A | C5-C6-N1 | 5.07 | 120.24 | 117.70 |
| 1 | A | 1636 | A | C5-C6-N1 | 5.07 | 120.24 | 117.70 |
| 1 | A | 1655 | A | C4-C5-N7 | -5.07 | 108.16 | 110.70 |
| 1 | A | 2898 | A | C4-C5-C6 | 5.07 | 119.54 | 117.00 |
| 1 | A | 1316 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 1 | A | 1562 | A | C8-N9-C4 | 5.07 | 107.83 | 105.80 |
| 1 | A | 1638 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 31 | W | 301 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 31 | W | 659 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 1 | A | 1456 | A | C8-N9-C4 | 5.07 | 107.83 | 105.80 |
| 1 | A | 2619 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 31 | W | 730 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 51 | 1 | 58 | A | C5-C6-N6 | -5.07 | 119.64 | 123.70 |
| 1 | A | 500 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 1 | A | 958 | A | C4-C5-N7 | -5.07 | 108.17 | 110.70 |
| 1 | A | 1832 | A | C8-N9-C4 | 5.07 | 107.83 | 105.80 |
| 2 | B | 20 | A | C4-C5-N7 | -5.07 | 108.17 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1284 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 31 | W | 1369 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 1 | A | 38 | A | C8-N9-C4 | 5.07 | 107.83 | 105.80 |
| 1 | A | 736 | A | C4-C5-N7 | -5.07 | 108.17 | 110.70 |
| 1 | A | 1648 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 1 | A | 2027 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 1 | A | 2782 | A | C8-N9-C4 | 5.07 | 107.83 | 105.80 |
| 1 | A | 2786 | A | N9-C4-C5 | 5.07 | 107.83 | 105.80 |
| 31 | W | 94 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 31 | W | 278 | A | C5-C6-N1 | 5.07 | 120.23 | 117.70 |
| 1 | A | 1340 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 1 | A | 1340 | A | C8-N9-C4 | 5.06 | 107.83 | 105.80 |
| 1 | A | 2047 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 31 | W | 837 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 31 | W | 985 | A | N9-C4-C5 | 5.06 | 107.83 | 105.80 |
| 1 | A | 1412 | A | C4-C5-N7 | -5.06 | 108.17 | 110.70 |
| 1 | A | 2358 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 31 | W | 301 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 475 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 1097 | A | C8-N9-C4 | 5.06 | 107.82 | 105.80 |
| 1 | A | 1961 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 2505 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 1 | A | 2616 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 2722 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 1 | A | 2762 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 31 | W | 496 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 51 | y | 24 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 2298 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 2369 | A | C5-C6-N1 | 5.06 | 120.23 | 117.70 |
| 31 | W | 344 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 2026 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 1 | A | 2787 | A | N9-C4-C5 | 5.06 | 107.82 | 105.80 |
| 31 | W | 364 | A | C5-C6-N1 | 5.05 | 120.23 | 117.70 |
| 1 | A | 1442 | A | C4-C5-N7 | -5.05 | 108.17 | 110.70 |
| 1 | A | 1925 | A | N9-C4-C5 | 5.05 | 107.82 | 105.80 |
| 1 | A | 2091 | A | C8-N9-C4 | 5.05 | 107.82 | 105.80 |
| 31 | W | 361 | A | N9-C4-C5 | 5.05 | 107.82 | 105.80 |
| 31 | W | 968 | A | C8-N9-C4 | 5.05 | 107.82 | 105.80 |
| 31 | W | 1133 | A | C8-N9-C4 | 5.05 | 107.82 | 105.80 |
| 1 | A | 391 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 1 | A | 1075 | A | N9-C4-C5 | 5.05 | 107.82 | 105.80 |
| 1 | A | 1103 | A | C4-C5-N7 | -5.05 | 108.17 | 110.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 1 | A | 1243 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 1 | A | 2790 | A | N9-C4-C5 | 5.05 | 107.82 | 105.80 |
| 2 | B | 11 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 31 | W | 72 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 31 | W | 674 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 31 | W | 1272 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 1 | A | 2885 | A | C4-C5-N7 | -5.05 | 108.18 | 110.70 |
| 1 | A | 2887 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 1 | A | 1768 | A | N9-C4-C5 | 5.05 | 107.82 | 105.80 |
| 1 | A | 2080 | A | N9-C4-C5 | 5.05 | 107.82 | 105.80 |
| 31 | W | 390 | A | C5-C6-N1 | 5.05 | 120.22 | 117.70 |
| 1 | A | 1812 | A | C8-N9-C4 | 5.04 | 107.82 | 105.80 |
| 1 | A | 948 | A | C5-C6-N1 | 5.04 | 120.22 | 117.70 |
| 1 | A | 956 | A | C4-C5-N7 | -5.04 | 108.18 | 110.70 |
| 1 | A | 1067 | A | N3-C4-N9 | 5.04 | 131.44 | 127.40 |
| 1 | A | 1691 | A | C5-C6-N1 | 5.04 | 120.22 | 117.70 |
| 31 | W | 405 | A | C8-N9-C4 | 5.04 | 107.82 | 105.80 |
| 31 | W | 879 | A | N9-C4-C5 | 5.04 | 107.82 | 105.80 |
| 1 | A | 530 | A | C5-C6-N1 | 5.04 | 120.22 | 117.70 |
| 1 | A | 647 | A | C4-C5-N7 | -5.04 | 108.18 | 110.70 |
| 1 | A | 894 | A | C8-N9-C4 | 5.04 | 107.82 | 105.80 |
| 1 | A | 1614 | A | C5-C6-N1 | 5.04 | 120.22 | 117.70 |
| 1 | A | 2900 | A | N9-C4-C5 | 5.04 | 107.82 | 105.80 |
| 1 | A | 1655 | A | C5-C6-N6 | -5.04 | 119.67 | 123.70 |
| 1 | A | 1667 | A | C4-C5-N7 | -5.04 | 108.18 | 110.70 |
| 1 | A | 2454 | A | N9-C4-C5 | 5.04 | 107.82 | 105.80 |
| 1 | A | 1197 | A | C4-C5-N7 | -5.04 | 108.18 | 110.70 |
| 1 | A | 2827 | A | C5-C6-N6 | -5.04 | 119.67 | 123.70 |
| 31 | W | 838 | A | N9-C4-C5 | 5.04 | 107.81 | 105.80 |
| 31 | W | 1513 | A | N9-C4-C5 | 5.04 | 107.82 | 105.80 |
| 1 | A | 168 | A | N9-C4-C5 | 5.04 | 107.81 | 105.80 |
| 1 | A | 437 | A | N9-C4-C5 | 5.04 | 107.81 | 105.80 |
| 1 | A | 1914 | A | C5-C6-N1 | 5.04 | 120.22 | 117.70 |
| 1 | A | 2547 | A | N9-C4-C5 | 5.04 | 107.81 | 105.80 |
| 31 | W | 875 | A | C5-C6-N1 | 5.04 | 120.22 | 117.70 |
| 31 | W | 823 | A | N9-C4-C5 | 5.04 | 107.81 | 105.80 |
| 1 | A | 21 | A | C4-C5-N7 | -5.03 | 108.18 | 110.70 |
| 31 | W | 948 | A | C4-C5-N7 | -5.03 | 108.18 | 110.70 |
| 31 | W | 984 | A | N9-C4-C5 | 5.03 | 107.81 | 105.80 |
| 31 | W | 1155 | A | C8-N9-C4 | 5.03 | 107.81 | 105.80 |
| 1 | A | 661 | A | C4-C5-N7 | -5.03 | 108.18 | 110.70 |
| 1 | A | 1814 | A | C4-C5-C6 | 5.03 | 119.52 | 117.00 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 1315 | A | N9-C4-C5 | 5.03 | 107.81 | 105.80 |
| 1 | A | 207 | A | C5-C6-N1 | 5.03 | 120.22 | 117.70 |
| 1 | A | 790 | A | C5-C6-N1 | 5.03 | 120.22 | 117.70 |
| 1 | A | 1131 | A | C5-C6-N1 | 5.03 | 120.22 | 117.70 |
| 1 | A | 2908 | A | C5-C6-N1 | 5.03 | 120.22 | 117.70 |
| 31 | W | 1272 | A | C4-C5-N7 | -5.03 | 108.18 | 110.70 |
| 1 | A | 161 | A | C5-C6-N1 | 5.03 | 120.22 | 117.70 |
| 1 | A | 2468 | A | C4-C5-N7 | -5.03 | 108.19 | 110.70 |
| 31 | W | 371 | A | C5-C6-N1 | 5.03 | 120.21 | 117.70 |
| 31 | W | 725 | A | C8-N9-C4 | 5.03 | 107.81 | 105.80 |
| 31 | W | 883 | A | N9-C4-C5 | 5.03 | 107.81 | 105.80 |
| 1 | A | 1132 | A | C8-N9-C4 | 5.03 | 107.81 | 105.80 |
| 1 | A | 1423 | A | C5-C6-N6 | -5.03 | 119.68 | 123.70 |
| 1 | A | 1812 | A | C5-C6-N1 | 5.03 | 120.21 | 117.70 |
| 1 | A | 2395 | A | N9-C4-C5 | 5.03 | 107.81 | 105.80 |
| 31 | W | 996 | A | N9-C4-C5 | 5.03 | 107.81 | 105.80 |
| 31 | W | 151 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 1 | A | 517 | A | N9-C4-C5 | 5.02 | 107.81 | 105.80 |
| 1 | A | 659 | A | C5-C6-N6 | -5.02 | 119.68 | 123.70 |
| 1 | A | 1305 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 1 | A | 1424 | A | N9-C4-C5 | 5.02 | 107.81 | 105.80 |
| 1 | A | 1982 | A | C5-C6-N6 | -5.02 | 119.68 | 123.70 |
| 1 | A | 2629 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 1 | A | 2673 | A | C5-C6-N6 | -5.02 | 119.68 | 123.70 |
| 1 | A | 2770 | A | N9-C4-C5 | 5.02 | 107.81 | 105.80 |
| 1 | A | 1619 | A | C5-C6-N6 | -5.02 | 119.68 | 123.70 |
| 1 | A | 2689 | A | C8-N9-C4 | 5.02 | 107.81 | 105.80 |
| 1 | A | 6 | A | C5-C6-N6 | -5.02 | 119.69 | 123.70 |
| 1 | A | 53 | A | C5-C6-N6 | -5.02 | 119.69 | 123.70 |
| 1 | A | 438 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 1 | A | 1620 | A | C4-C5-N7 | -5.02 | 108.19 | 110.70 |
| 31 | W | 874 | A | C4-C5-N7 | -5.02 | 108.19 | 110.70 |
| 31 | W | 928 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 31 | W | 1206 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 1 | A | 178 | A | C8-N9-C4 | 5.02 | 107.81 | 105.80 |
| 1 | A | 345 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 1 | A | 526 | A | N3-C4-N9 | 5.02 | 131.41 | 127.40 |
| 1 | A | 2111 | A | C4-C5-N7 | -5.02 | 108.19 | 110.70 |
| 31 | W | 1358 | A | C4-C5-C6 | 5.02 | 119.51 | 117.00 |
| 1 | A | 1888 | A | N9-C4-C5 | 5.02 | 107.81 | 105.80 |
| 1 | A | 1961 | A | C5-C6-N1 | 5.02 | 120.21 | 117.70 |
| 31 | W | 76 | A | N9-C4-C5 | 5.02 | 107.81 | 105.80 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|-------|-------------|----------|
| 31 | W | 541 | A | C5-C6-N6 | -5.02 | 119.69 | 123.70 |
| 1 | A | 494 | A | C8-N9-C4 | 5.01 | 107.81 | 105.80 |
| 1 | A | 1844 | A | C5-C6-N1 | 5.01 | 120.21 | 117.70 |
| 1 | A | 1901 | A | N9-C4-C5 | 5.01 | 107.81 | 105.80 |
| 31 | W | 727 | A | C8-N9-C4 | 5.01 | 107.81 | 105.80 |
| 31 | W | 925 | A | C5-C6-N1 | 5.01 | 120.21 | 117.70 |
| 31 | W | 1006 | A | C5-C6-N6 | -5.01 | 119.69 | 123.70 |
| 1 | A | 1312 | A | C5-C6-N6 | -5.01 | 119.69 | 123.70 |
| 1 | A | 1445 | A | N9-C4-C5 | 5.01 | 107.81 | 105.80 |
| 1 | A | 1714 | A | C8-N9-C4 | 5.01 | 107.81 | 105.80 |
| 1 | A | 2381 | A | N9-C4-C5 | 5.01 | 107.80 | 105.80 |
| 1 | A | 2627 | A | C4-C5-N7 | -5.01 | 108.19 | 110.70 |
| 31 | W | 74 | A | C5-C6-N6 | -5.01 | 119.69 | 123.70 |
| 1 | A | 559 | A | N9-C4-C5 | 5.01 | 107.80 | 105.80 |
| 1 | A | 1308 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 1 | A | 1426 | A | N9-C4-C5 | 5.01 | 107.80 | 105.80 |
| 1 | A | 2719 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 31 | W | 346 | A | C4-C5-N7 | -5.01 | 108.20 | 110.70 |
| 31 | W | 1327 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 31 | W | 1503 | A | C5-C6-N6 | -5.01 | 119.69 | 123.70 |
| 31 | W | 913 | A | N9-C4-C5 | 5.01 | 107.80 | 105.80 |
| 1 | A | 171 | A | N9-C4-C5 | 5.01 | 107.80 | 105.80 |
| 1 | A | 769 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 1 | A | 1072 | A | N9-C4-C5 | 5.01 | 107.80 | 105.80 |
| 1 | A | 1480 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 1 | A | 1483 | A | C5-C6-N6 | -5.01 | 119.69 | 123.70 |
| 1 | A | 2358 | A | C4-C5-N7 | -5.01 | 108.20 | 110.70 |
| 2 | B | 102 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 31 | W | 664 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 31 | W | 1245 | A | C5-C6-N1 | 5.01 | 120.20 | 117.70 |
| 1 | A | 41 | A | C5-C6-N1 | 5.00 | 120.20 | 117.70 |
| 1 | A | 110 | A | C5-C6-N6 | -5.00 | 119.70 | 123.70 |
| 1 | A | 705 | A | C5-C6-N6 | -5.00 | 119.70 | 123.70 |
| 1 | A | 1026 | A | C5-C6-N6 | -5.00 | 119.70 | 123.70 |
| 1 | A | 38 | A | C5-C6-N1 | 5.00 | 120.20 | 117.70 |
| 1 | A | 517 | A | C5-C6-N6 | -5.00 | 119.70 | 123.70 |
| 1 | A | 634 | A | C4-C5-N7 | -5.00 | 108.20 | 110.70 |
| 1 | A | 1506 | A | C5-C6-N6 | -5.00 | 119.70 | 123.70 |
| 1 | A | 1618 | A | C4-C5-N7 | -5.00 | 108.20 | 110.70 |
| 31 | W | 1470 | A | C5-C6-N1 | 5.00 | 120.20 | 117.70 |

There are no chirality outliers.

All (125) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|------|------|-----------|
| 51 | 1 | 37 | A | Sidechain |
| 51 | 1 | 9 | A | Sidechain |
| 1 | A | 1006 | A | Sidechain |
| 1 | A | 1042 | A | Sidechain |
| 1 | A | 1075 | A | Sidechain |
| 1 | A | 1078 | A | Sidechain |
| 1 | A | 1094 | A | Sidechain |
| 1 | A | 1097 | A | Sidechain |
| 1 | A | 1172 | A | Sidechain |
| 1 | A | 1173 | A | Sidechain |
| 1 | A | 1253 | A | Sidechain |
| 1 | A | 126 | A | Sidechain |
| 1 | A | 1293 | A | Sidechain |
| 1 | A | 1294 | A | Sidechain |
| 1 | A | 1302 | A | Sidechain |
| 1 | A | 1393 | A | Sidechain |
| 1 | A | 1555 | A | Sidechain |
| 1 | A | 1618 | A | Sidechain |
| 1 | A | 1619 | A | Sidechain |
| 1 | A | 1659 | A | Sidechain |
| 1 | A | 1661 | A | Sidechain |
| 1 | A | 168 | A | Sidechain |
| 1 | A | 1686 | A | Sidechain |
| 1 | A | 1724 | A | Sidechain |
| 1 | A | 183 | A | Sidechain |
| 1 | A | 1831 | A | Sidechain |
| 1 | A | 1839 | A | Sidechain |
| 1 | A | 1848 | A | Sidechain |
| 1 | A | 1883 | A | Sidechain |
| 1 | A | 1888 | A | Sidechain |
| 1 | A | 1957 | A | Sidechain |
| 1 | A | 1998 | A | Sidechain |
| 1 | A | 1999 | A | Sidechain |
| 1 | A | 2006 | A | Sidechain |
| 1 | A | 2010 | A | Sidechain |
| 1 | A | 2062 | A | Sidechain |
| 1 | A | 2111 | A | Sidechain |
| 1 | A | 2262 | A | Sidechain |
| 1 | A | 2316 | A | Sidechain |
| 1 | A | 2364 | A | Sidechain |
| 1 | A | 2383 | A | Sidechain |
| 1 | A | 2395 | A | Sidechain |

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| Mol | Chain | Res | Type | Group |
|------------|--------------|------------|-------------|--------------|
| 1 | A | 2407 | A | Sidechain |
| 1 | A | 2488 | A | Sidechain |
| 1 | A | 259 | A | Sidechain |
| 1 | A | 2601 | A | Sidechain |
| 1 | A | 2606 | A | Sidechain |
| 1 | A | 2616 | A | Sidechain |
| 1 | A | 2627 | A | Sidechain |
| 1 | A | 2631 | A | Sidechain |
| 1 | A | 2670 | A | Sidechain |
| 1 | A | 2691 | A | Sidechain |
| 1 | A | 2708 | A | Sidechain |
| 1 | A | 2805 | A | Sidechain |
| 1 | A | 2819 | A | Sidechain |
| 1 | A | 2827 | A | Sidechain |
| 1 | A | 2885 | A | Sidechain |
| 1 | A | 366 | A | Sidechain |
| 1 | A | 477 | A | Sidechain |
| 1 | A | 501 | A | Sidechain |
| 1 | A | 513 | A | Sidechain |
| 1 | A | 517 | A | Sidechain |
| 1 | A | 518 | A | Sidechain |
| 1 | A | 52 | A | Sidechain |
| 1 | A | 538 | A | Sidechain |
| 1 | A | 551 | A | Sidechain |
| 1 | A | 559 | A | Sidechain |
| 1 | A | 64 | A | Sidechain |
| 1 | A | 661 | A | Sidechain |
| 1 | A | 67 | A | Sidechain |
| 1 | A | 679 | A | Sidechain |
| 1 | A | 692 | A | Sidechain |
| 1 | A | 699 | A | Sidechain |
| 1 | A | 752 | A | Sidechain |
| 1 | A | 765 | A | Sidechain |
| 1 | A | 796 | A | Sidechain |
| 1 | A | 797 | A | Sidechain |
| 1 | A | 798 | A | Sidechain |
| 1 | A | 799 | A | Sidechain |
| 1 | A | 836 | A | Sidechain |
| 1 | A | 841 | A | Sidechain |
| 1 | A | 866 | A | Sidechain |
| 1 | A | 904 | A | Sidechain |
| 2 | B | 55 | A | Sidechain |

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| Mol | Chain | Res | Type | Group |
|------------|--------------|------------|-------------|--------------|
| 2 | B | 97 | A | Sidechain |
| 5 | E | 66 | ARG | Sidechain |
| 19 | S | 86 | ARG | Sidechain |
| 19 | S | 88 | ARG | Sidechain |
| 31 | W | 1026 | A | Sidechain |
| 31 | W | 1065 | A | Sidechain |
| 31 | W | 1207 | A | Sidechain |
| 31 | W | 1261 | A | Sidechain |
| 31 | W | 1278 | A | Sidechain |
| 31 | W | 1297 | A | Sidechain |
| 31 | W | 1384 | A | Sidechain |
| 31 | W | 1407 | A | Sidechain |
| 31 | W | 1427 | A | Sidechain |
| 31 | W | 1442 | A | Sidechain |
| 31 | W | 1478 | A | Sidechain |
| 31 | W | 209 | A | Sidechain |
| 31 | W | 308 | A | Sidechain |
| 31 | W | 335 | A | Sidechain |
| 31 | W | 391 | A | Sidechain |
| 31 | W | 401 | A | Sidechain |
| 31 | W | 415 | A | Sidechain |
| 31 | W | 419 | A | Sidechain |
| 31 | W | 496 | A | Sidechain |
| 31 | W | 500 | A | Sidechain |
| 31 | W | 53 | A | Sidechain |
| 31 | W | 532 | A | Sidechain |
| 31 | W | 583 | A | Sidechain |
| 31 | W | 696 | A | Sidechain |
| 31 | W | 76 | A | Sidechain |
| 31 | W | 790 | A | Sidechain |
| 31 | W | 811 | A | Sidechain |
| 31 | W | 862 | A | Sidechain |
| 31 | W | 883 | A | Sidechain |
| 31 | W | 911 | A | Sidechain |
| 31 | W | 918 | A | Sidechain |
| 31 | W | 929 | A | Sidechain |
| 31 | W | 969 | A | Sidechain |
| 31 | W | 975 | A | Sidechain |
| 31 | W | 988 | A | Sidechain |
| 51 | y | 37 | A | Sidechain |
| 51 | y | 9 | A | Sidechain |

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles |
|-----|-------|---------------|-----------|----------|----------|-------------|
| 3 | C | 273/277 (99%) | 264 (97%) | 8 (3%) | 1 (0%) | 34 72 |
| 4 | D | 205/208 (99%) | 189 (92%) | 11 (5%) | 5 (2%) | 6 33 |
| 5 | E | 203/207 (98%) | 184 (91%) | 16 (8%) | 3 (2%) | 10 45 |
| 6 | F | 176/179 (98%) | 154 (88%) | 18 (10%) | 4 (2%) | 6 34 |
| 7 | G | 173/179 (97%) | 164 (95%) | 8 (5%) | 1 (1%) | 25 65 |
| 8 | H | 121/166 (73%) | 97 (80%) | 14 (12%) | 10 (8%) | 1 12 |
| 9 | I | 131/141 (93%) | 122 (93%) | 7 (5%) | 2 (2%) | 10 45 |
| 10 | J | 140/145 (97%) | 130 (93%) | 9 (6%) | 1 (1%) | 22 62 |
| 11 | K | 120/122 (98%) | 112 (93%) | 6 (5%) | 2 (2%) | 9 41 |
| 12 | L | 144/146 (99%) | 132 (92%) | 10 (7%) | 2 (1%) | 11 45 |
| 13 | M | 136/144 (94%) | 129 (95%) | 7 (5%) | 0 | 100 100 |
| 14 | N | 117/120 (98%) | 109 (93%) | 7 (6%) | 1 (1%) | 17 56 |
| 15 | O | 118/120 (98%) | 106 (90%) | 7 (6%) | 5 (4%) | 3 22 |
| 16 | P | 112/115 (97%) | 100 (89%) | 12 (11%) | 0 | 100 100 |
| 17 | Q | 115/119 (97%) | 112 (97%) | 3 (3%) | 0 | 100 100 |
| 18 | R | 99/102 (97%) | 82 (83%) | 15 (15%) | 2 (2%) | 7 37 |
| 19 | S | 107/113 (95%) | 96 (90%) | 8 (8%) | 3 (3%) | 5 30 |
| 20 | T | 91/95 (96%) | 86 (94%) | 5 (6%) | 0 | 100 100 |
| 21 | U | 98/103 (95%) | 87 (89%) | 8 (8%) | 3 (3%) | 4 27 |
| 22 | V | 80/94 (85%) | 77 (96%) | 3 (4%) | 0 | 100 100 |
| 23 | Y | 56/62 (90%) | 53 (95%) | 1 (2%) | 2 (4%) | 3 25 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 24 | Z | 63/66 (96%) | 60 (95%) | 3 (5%) | 0 | 100 | 100 |
| 25 | a | 56/59 (95%) | 54 (96%) | 1 (2%) | 1 (2%) | 8 | 40 |
| 26 | b | 52/59 (88%) | 47 (90%) | 4 (8%) | 1 (2%) | 8 | 38 |
| 27 | c | 46/49 (94%) | 44 (96%) | 2 (4%) | 0 | 100 | 100 |
| 28 | d | 42/44 (96%) | 41 (98%) | 1 (2%) | 0 | 100 | 100 |
| 29 | e | 62/66 (94%) | 56 (90%) | 5 (8%) | 1 (2%) | 9 | 43 |
| 30 | f | 34/37 (92%) | 33 (97%) | 1 (3%) | 0 | 100 | 100 |
| 32 | X | 222/246 (90%) | 204 (92%) | 13 (6%) | 5 (2%) | 6 | 34 |
| 33 | g | 208/218 (95%) | 193 (93%) | 14 (7%) | 1 (0%) | 29 | 69 |
| 34 | h | 197/200 (98%) | 191 (97%) | 4 (2%) | 2 (1%) | 15 | 54 |
| 35 | i | 163/166 (98%) | 150 (92%) | 9 (6%) | 4 (2%) | 5 | 32 |
| 36 | j | 93/95 (98%) | 88 (95%) | 3 (3%) | 2 (2%) | 6 | 35 |
| 37 | k | 151/156 (97%) | 144 (95%) | 6 (4%) | 1 (1%) | 22 | 62 |
| 38 | l | 129/132 (98%) | 123 (95%) | 5 (4%) | 1 (1%) | 19 | 59 |
| 39 | m | 128/130 (98%) | 113 (88%) | 10 (8%) | 5 (4%) | 3 | 23 |
| 40 | n | 100/102 (98%) | 88 (88%) | 8 (8%) | 4 (4%) | 3 | 23 |
| 41 | o | 116/131 (88%) | 106 (91%) | 9 (8%) | 1 (1%) | 17 | 56 |
| 42 | p | 135/138 (98%) | 118 (87%) | 10 (7%) | 7 (5%) | 2 | 19 |
| 43 | q | 117/121 (97%) | 94 (80%) | 13 (11%) | 10 (8%) | 1 | 11 |
| 44 | r | 58/61 (95%) | 51 (88%) | 4 (7%) | 3 (5%) | 2 | 19 |
| 45 | s | 86/89 (97%) | 82 (95%) | 2 (2%) | 2 (2%) | 6 | 34 |
| 46 | t | 87/90 (97%) | 82 (94%) | 3 (3%) | 2 (2%) | 6 | 34 |
| 47 | u | 84/87 (97%) | 78 (93%) | 6 (7%) | 0 | 100 | 100 |
| 48 | v | 69/79 (87%) | 64 (93%) | 2 (3%) | 3 (4%) | 2 | 22 |
| 49 | w | 82/92 (89%) | 75 (92%) | 5 (6%) | 2 (2%) | 6 | 33 |
| 50 | x | 84/88 (96%) | 77 (92%) | 6 (7%) | 1 (1%) | 13 | 49 |
| All | All | 5479/5758 (95%) | 5041 (92%) | 332 (6%) | 106 (2%) | 11 | 38 |

All (106) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 8 | H | 93 | ALA |
| 9 | I | 19 | ASN |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 15 | O | 26 | ALA |
| 21 | U | 87 | ASP |
| 35 | i | 4 | ILE |
| 36 | j | 70 | ALA |
| 42 | p | 127 | ARG |
| 43 | q | 101 | ASN |
| 4 | D | 18 | GLU |
| 4 | D | 78 | ARG |
| 4 | D | 90 | ALA |
| 4 | D | 99 | VAL |
| 6 | F | 42 | ASP |
| 8 | H | 48 | ALA |
| 8 | H | 72 | LEU |
| 8 | H | 89 | VAL |
| 8 | H | 108 | ILE |
| 8 | H | 124 | LYS |
| 15 | O | 68 | THR |
| 15 | O | 91 | SER |
| 19 | S | 8 | ARG |
| 32 | X | 18 | HIS |
| 32 | X | 36 | ASN |
| 32 | X | 104 | PHE |
| 35 | i | 163 | GLU |
| 36 | j | 54 | ASP |
| 37 | k | 54 | THR |
| 38 | l | 71 | GLU |
| 39 | m | 106 | ARG |
| 39 | m | 122 | ARG |
| 42 | p | 38 | VAL |
| 43 | q | 41 | GLU |
| 43 | q | 46 | ARG |
| 43 | q | 65 | VAL |
| 43 | q | 102 | SER |
| 43 | q | 112 | PRO |
| 5 | E | 4 | VAL |
| 8 | H | 55 | TYR |
| 8 | H | 90 | VAL |
| 8 | H | 113 | ILE |
| 11 | K | 89 | ASP |
| 15 | O | 63 | LEU |
| 18 | R | 28 | GLU |
| 19 | S | 41 | ARG |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 19 | S | 65 | ASP |
| 21 | U | 74 | LYS |
| 21 | U | 89 | LYS |
| 29 | e | 31 | HIS |
| 33 | g | 60 | ALA |
| 34 | h | 5 | THR |
| 39 | m | 57 | THR |
| 40 | n | 35 | SER |
| 42 | p | 32 | LYS |
| 42 | p | 39 | SER |
| 42 | p | 115 | LEU |
| 43 | q | 42 | ASP |
| 43 | q | 66 | GLU |
| 45 | s | 88 | ARG |
| 49 | w | 84 | ALA |
| 3 | C | 245 | SER |
| 4 | D | 54 | ASP |
| 5 | E | 128 | ASP |
| 6 | F | 112 | ARG |
| 6 | F | 147 | THR |
| 7 | G | 13 | SER |
| 11 | K | 34 | ASN |
| 15 | O | 71 | THR |
| 25 | a | 29 | LYS |
| 26 | b | 45 | ALA |
| 32 | X | 37 | GLY |
| 34 | h | 142 | ARG |
| 40 | n | 44 | THR |
| 42 | p | 25 | ASN |
| 43 | q | 10 | PRO |
| 46 | t | 44 | ALA |
| 46 | t | 47 | ALA |
| 48 | v | 28 | TYR |
| 5 | E | 89 | VAL |
| 8 | H | 107 | GLU |
| 10 | J | 22 | ALA |
| 12 | L | 107 | ALA |
| 14 | N | 110 | ASP |
| 18 | R | 52 | THR |
| 23 | Y | 44 | PRO |
| 40 | n | 36 | VAL |
| 42 | p | 16 | VAL |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 44 | r | 31 | HIS |
| 44 | r | 56 | VAL |
| 48 | v | 16 | CYS |
| 49 | w | 30 | VAL |
| 23 | Y | 40 | VAL |
| 35 | i | 162 | GLU |
| 39 | m | 104 | LEU |
| 39 | m | 107 | ASP |
| 41 | o | 120 | HIS |
| 50 | x | 69 | LYS |
| 35 | i | 109 | GLY |
| 12 | L | 88 | GLY |
| 43 | q | 84 | GLY |
| 44 | r | 51 | GLY |
| 40 | n | 80 | THR |
| 45 | s | 24 | SER |
| 48 | v | 23 | ILE |
| 32 | X | 201 | PRO |
| 6 | F | 25 | VAL |
| 9 | I | 24 | VAL |

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|---------------|------------|----------|-------------|-----|
| 3 | C | 223/225 (99%) | 223 (100%) | 0 | 100 | 100 |
| 4 | D | 168/169 (99%) | 168 (100%) | 0 | 100 | 100 |
| 5 | E | 169/170 (99%) | 168 (99%) | 1 (1%) | 86 | 91 |
| 6 | F | 153/154 (99%) | 153 (100%) | 0 | 100 | 100 |
| 7 | G | 148/151 (98%) | 148 (100%) | 0 | 100 | 100 |
| 8 | H | 105/139 (76%) | 105 (100%) | 0 | 100 | 100 |
| 9 | I | 103/110 (94%) | 103 (100%) | 0 | 100 | 100 |
| 10 | J | 120/123 (98%) | 120 (100%) | 0 | 100 | 100 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|-------------|----------|-------------|-----|
| 11 | K | 101/101 (100%) | 101 (100%) | 0 | 100 | 100 |
| 12 | L | 110/110 (100%) | 110 (100%) | 0 | 100 | 100 |
| 13 | M | 111/116 (96%) | 111 (100%) | 0 | 100 | 100 |
| 14 | N | 99/100 (99%) | 99 (100%) | 0 | 100 | 100 |
| 15 | O | 93/93 (100%) | 93 (100%) | 0 | 100 | 100 |
| 16 | P | 99/100 (99%) | 99 (100%) | 0 | 100 | 100 |
| 17 | Q | 96/98 (98%) | 96 (100%) | 0 | 100 | 100 |
| 18 | R | 83/84 (99%) | 83 (100%) | 0 | 100 | 100 |
| 19 | S | 90/93 (97%) | 89 (99%) | 1 (1%) | 73 | 84 |
| 20 | T | 84/85 (99%) | 84 (100%) | 0 | 100 | 100 |
| 21 | U | 84/87 (97%) | 84 (100%) | 0 | 100 | 100 |
| 22 | V | 64/74 (86%) | 64 (100%) | 0 | 100 | 100 |
| 23 | Y | 47/50 (94%) | 47 (100%) | 0 | 100 | 100 |
| 24 | Z | 56/57 (98%) | 56 (100%) | 0 | 100 | 100 |
| 25 | a | 52/53 (98%) | 52 (100%) | 0 | 100 | 100 |
| 26 | b | 48/53 (91%) | 48 (100%) | 0 | 100 | 100 |
| 27 | c | 46/47 (98%) | 46 (100%) | 0 | 100 | 100 |
| 28 | d | 39/39 (100%) | 39 (100%) | 0 | 100 | 100 |
| 29 | e | 54/56 (96%) | 54 (100%) | 0 | 100 | 100 |
| 30 | f | 34/35 (97%) | 34 (100%) | 0 | 100 | 100 |
| All | All | 2679/2772 (97%) | 2677 (100%) | 2 (0%) | 93 | 97 |

All (2) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 5 | E | 66 | ARG |
| 19 | S | 90 | MET |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (38) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 3 | C | 194 | GLN |
| 3 | C | 199 | GLN |
| 3 | C | 264 | ASN |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 4 | D | 50 | GLN |
| 4 | D | 152 | ASN |
| 4 | D | 172 | GLN |
| 4 | D | 191 | ASN |
| 5 | E | 29 | ASN |
| 5 | E | 67 | GLN |
| 5 | E | 82 | GLN |
| 6 | F | 37 | ASN |
| 7 | G | 62 | HIS |
| 7 | G | 107 | ASN |
| 9 | I | 93 | ASN |
| 10 | J | 59 | ASN |
| 12 | L | 38 | GLN |
| 12 | L | 78 | ASN |
| 14 | N | 27 | ASN |
| 16 | P | 15 | GLN |
| 16 | P | 80 | HIS |
| 17 | Q | 37 | GLN |
| 17 | Q | 91 | ASN |
| 18 | R | 65 | GLN |
| 19 | S | 60 | HIS |
| 19 | S | 102 | HIS |
| 21 | U | 2 | HIS |
| 21 | U | 39 | ASN |
| 21 | U | 64 | HIS |
| 22 | V | 37 | GLN |
| 23 | Y | 23 | ASN |
| 25 | a | 37 | HIS |
| 25 | a | 40 | ASN |
| 26 | b | 40 | HIS |
| 27 | c | 25 | ASN |
| 28 | d | 9 | ASN |
| 29 | e | 31 | HIS |
| 29 | e | 35 | ASN |
| 30 | f | 36 | GLN |

5.3.3 RNA

| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1 | A | 2922/2928 (99%) | 817 (27%) | 83 (2%) |
| 2 | B | 111/119 (93%) | 32 (28%) | 4 (3%) |

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| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 31 | W | 1543/1555 (99%) | 235 (15%) | 17 (1%) |
| 51 | 1 | 76/77 (98%) | 15 (19%) | 1 (1%) |
| 51 | y | 76/77 (98%) | 18 (23%) | 0 |
| All | All | 4728/4756 (99%) | 1117 (23%) | 105 (2%) |

All (1117) RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 8 | U |
| 1 | A | 9 | U |
| 1 | A | 10 | A |
| 1 | A | 13 | A |
| 1 | A | 27 | G |
| 1 | A | 28 | A |
| 1 | A | 31 | C |
| 1 | A | 34 | U |
| 1 | A | 35 | G |
| 1 | A | 38 | A |
| 1 | A | 44 | A |
| 1 | A | 45 | G |
| 1 | A | 46 | C |
| 1 | A | 48 | G |
| 1 | A | 49 | A |
| 1 | A | 51 | G |
| 1 | A | 55 | G |
| 1 | A | 59 | G |
| 1 | A | 60 | G |
| 1 | A | 61 | A |
| 1 | A | 63 | G |
| 1 | A | 70 | G |
| 1 | A | 71 | A |
| 1 | A | 75 | G |
| 1 | A | 76 | C |
| 1 | A | 84 | A |
| 1 | A | 87 | U |
| 1 | A | 90 | A |
| 1 | A | 91 | A |
| 1 | A | 94 | A |
| 1 | A | 101 | G |
| 1 | A | 102 | A |
| 1 | A | 109 | G |
| 1 | A | 118 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 119 | U |
| 1 | A | 124 | A |
| 1 | A | 125 | A |
| 1 | A | 126 | A |
| 1 | A | 127 | C |
| 1 | A | 130 | A |
| 1 | A | 133 | A |
| 1 | A | 156 | A |
| 1 | A | 161 | A |
| 1 | A | 162 | A |
| 1 | A | 163 | U |
| 1 | A | 164 | U |
| 1 | A | 176 | A |
| 1 | A | 177 | G |
| 1 | A | 179 | A |
| 1 | A | 183 | A |
| 1 | A | 184 | G |
| 1 | A | 185 | A |
| 1 | A | 188 | C |
| 1 | A | 199 | A |
| 1 | A | 202 | A |
| 1 | A | 203 | U |
| 1 | A | 207 | A |
| 1 | A | 208 | G |
| 1 | A | 215 | G |
| 1 | A | 216 | A |
| 1 | A | 217 | G |
| 1 | A | 218 | G |
| 1 | A | 219 | A |
| 1 | A | 225 | A |
| 1 | A | 226 | A |
| 1 | A | 227 | G |
| 1 | A | 230 | A |
| 1 | A | 231 | A |
| 1 | A | 232 | U |
| 1 | A | 233 | G |
| 1 | A | 236 | A |
| 1 | A | 245 | G |
| 1 | A | 248 | G |
| 1 | A | 251 | G |
| 1 | A | 252 | C |
| 1 | A | 253 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 258 | A |
| 1 | A | 267 | C |
| 1 | A | 268 | A |
| 1 | A | 272 | C |
| 1 | A | 275 | A |
| 1 | A | 282 | G |
| 1 | A | 283 | G |
| 1 | A | 289 | C |
| 1 | A | 290 | U |
| 1 | A | 291 | C |
| 1 | A | 299 | U |
| 1 | A | 300 | G |
| 1 | A | 301 | U |
| 1 | A | 302 | A |
| 1 | A | 310 | C |
| 1 | A | 312 | G |
| 1 | A | 313 | U |
| 1 | A | 314 | A |
| 1 | A | 315 | C |
| 1 | A | 321 | U |
| 1 | A | 322 | A |
| 1 | A | 324 | A |
| 1 | A | 326 | A |
| 1 | A | 327 | G |
| 1 | A | 328 | G |
| 1 | A | 337 | A |
| 1 | A | 338 | G |
| 1 | A | 345 | A |
| 1 | A | 346 | G |
| 1 | A | 349 | C |
| 1 | A | 354 | A |
| 1 | A | 355 | A |
| 1 | A | 360 | C |
| 1 | A | 367 | G |
| 1 | A | 368 | G |
| 1 | A | 373 | A |
| 1 | A | 375 | C |
| 1 | A | 376 | A |
| 1 | A | 378 | C |
| 1 | A | 379 | C |
| 1 | A | 380 | C |
| 1 | A | 387 | C |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 390 | A |
| 1 | A | 393 | U |
| 1 | A | 394 | U |
| 1 | A | 405 | U |
| 1 | A | 406 | G |
| 1 | A | 407 | A |
| 1 | A | 411 | G |
| 1 | A | 418 | A |
| 1 | A | 419 | G |
| 1 | A | 420 | U |
| 1 | A | 430 | C |
| 1 | A | 433 | G |
| 1 | A | 434 | U |
| 1 | A | 435 | G |
| 1 | A | 438 | A |
| 1 | A | 453 | G |
| 1 | A | 459 | A |
| 1 | A | 474 | U |
| 1 | A | 478 | U |
| 1 | A | 481 | U |
| 1 | A | 485 | U |
| 1 | A | 489 | G |
| 1 | A | 490 | A |
| 1 | A | 494 | A |
| 1 | A | 502 | C |
| 1 | A | 503 | C |
| 1 | A | 504 | A |
| 1 | A | 525 | A |
| 1 | A | 526 | A |
| 1 | A | 527 | A |
| 1 | A | 528 | G |
| 1 | A | 537 | A |
| 1 | A | 538 | A |
| 1 | A | 544 | G |
| 1 | A | 548 | A |
| 1 | A | 550 | G |
| 1 | A | 551 | A |
| 1 | A | 553 | A |
| 1 | A | 555 | C |
| 1 | A | 556 | C |
| 1 | A | 558 | G |
| 1 | A | 559 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 561 | A |
| 1 | A | 562 | C |
| 1 | A | 564 | G |
| 1 | A | 575 | A |
| 1 | A | 576 | G |
| 1 | A | 577 | U |
| 1 | A | 578 | A |
| 1 | A | 589 | G |
| 1 | A | 591 | U |
| 1 | A | 592 | A |
| 1 | A | 594 | C |
| 1 | A | 595 | G |
| 1 | A | 599 | G |
| 1 | A | 606 | U |
| 1 | A | 607 | G |
| 1 | A | 616 | A |
| 1 | A | 618 | A |
| 1 | A | 619 | A |
| 1 | A | 634 | A |
| 1 | A | 637 | A |
| 1 | A | 647 | A |
| 1 | A | 648 | G |
| 1 | A | 649 | G |
| 1 | A | 650 | U |
| 1 | A | 651 | U |
| 1 | A | 655 | C |
| 1 | A | 656 | A |
| 1 | A | 657 | G |
| 1 | A | 658 | A |
| 1 | A | 660 | G |
| 1 | A | 663 | G |
| 1 | A | 664 | C |
| 1 | A | 665 | G |
| 1 | A | 666 | G |
| 1 | A | 667 | A |
| 1 | A | 668 | G |
| 1 | A | 673 | A |
| 1 | A | 674 | G |
| 1 | A | 684 | G |
| 1 | A | 691 | U |
| 1 | A | 692 | A |
| 1 | A | 698 | C |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 700 | U |
| 1 | A | 711 | U |
| 1 | A | 718 | C |
| 1 | A | 732 | A |
| 1 | A | 733 | U |
| 1 | A | 734 | C |
| 1 | A | 736 | A |
| 1 | A | 746 | A |
| 1 | A | 764 | C |
| 1 | A | 769 | A |
| 1 | A | 774 | A |
| 1 | A | 775 | G |
| 1 | A | 777 | C |
| 1 | A | 785 | C |
| 1 | A | 786 | A |
| 1 | A | 787 | C |
| 1 | A | 788 | G |
| 1 | A | 794 | U |
| 1 | A | 795 | G |
| 1 | A | 799 | A |
| 1 | A | 811 | A |
| 1 | A | 812 | G |
| 1 | A | 822 | G |
| 1 | A | 823 | G |
| 1 | A | 829 | A |
| 1 | A | 830 | A |
| 1 | A | 831 | U |
| 1 | A | 832 | G |
| 1 | A | 836 | A |
| 1 | A | 837 | U |
| 1 | A | 838 | C |
| 1 | A | 840 | A |
| 1 | A | 841 | A |
| 1 | A | 843 | C |
| 1 | A | 847 | A |
| 1 | A | 848 | G |
| 1 | A | 851 | A |
| 1 | A | 852 | G |
| 1 | A | 853 | C |
| 1 | A | 858 | U |
| 1 | A | 859 | C |
| 1 | A | 866 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 872 | C |
| 1 | A | 874 | U |
| 1 | A | 875 | U |
| 1 | A | 878 | G |
| 1 | A | 880 | C |
| 1 | A | 882 | A |
| 1 | A | 892 | U |
| 1 | A | 893 | A |
| 1 | A | 894 | A |
| 1 | A | 895 | G |
| 1 | A | 896 | A |
| 1 | A | 900 | U |
| 1 | A | 908 | A |
| 1 | A | 910 | A |
| 1 | A | 912 | C |
| 1 | A | 913 | A |
| 1 | A | 914 | C |
| 1 | A | 915 | U |
| 1 | A | 916 | G |
| 1 | A | 924 | U |
| 1 | A | 925 | A |
| 1 | A | 928 | G |
| 1 | A | 931 | C |
| 1 | A | 932 | C |
| 1 | A | 933 | C |
| 1 | A | 934 | U |
| 1 | A | 935 | A |
| 1 | A | 937 | C |
| 1 | A | 942 | U |
| 1 | A | 943 | A |
| 1 | A | 944 | C |
| 1 | A | 948 | A |
| 1 | A | 952 | A |
| 1 | A | 956 | A |
| 1 | A | 957 | A |
| 1 | A | 959 | C |
| 1 | A | 964 | A |
| 1 | A | 970 | A |
| 1 | A | 972 | U |
| 1 | A | 974 | A |
| 1 | A | 976 | U |
| 1 | A | 977 | U |

Continued on next page...

Continued from previous page...

| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 978 | A |
| 1 | A | 981 | C |
| 1 | A | 987 | A |
| 1 | A | 992 | G |
| 1 | A | 998 | G |
| 1 | A | 1005 | A |
| 1 | A | 1007 | G |
| 1 | A | 1019 | A |
| 1 | A | 1020 | A |
| 1 | A | 1025 | A |
| 1 | A | 1027 | A |
| 1 | A | 1030 | G |
| 1 | A | 1031 | C |
| 1 | A | 1034 | A |
| 1 | A | 1035 | G |
| 1 | A | 1037 | C |
| 1 | A | 1042 | A |
| 1 | A | 1055 | A |
| 1 | A | 1058 | U |
| 1 | A | 1059 | A |
| 1 | A | 1063 | G |
| 1 | A | 1067 | A |
| 1 | A | 1068 | G |
| 1 | A | 1071 | G |
| 1 | A | 1072 | A |
| 1 | A | 1073 | A |
| 1 | A | 1079 | U |
| 1 | A | 1093 | G |
| 1 | A | 1096 | A |
| 1 | A | 1097 | A |
| 1 | A | 1100 | A |
| 1 | A | 1102 | G |
| 1 | A | 1103 | A |
| 1 | A | 1104 | U |
| 1 | A | 1107 | U |
| 1 | A | 1108 | G |
| 1 | A | 1111 | U |
| 1 | A | 1113 | A |
| 1 | A | 1115 | A |
| 1 | A | 1116 | A |
| 1 | A | 1117 | G |
| 1 | A | 1118 | C |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1121 | C |
| 1 | A | 1122 | C |
| 1 | A | 1123 | A |
| 1 | A | 1124 | C |
| 1 | A | 1126 | A |
| 1 | A | 1128 | U |
| 1 | A | 1129 | U |
| 1 | A | 1130 | A |
| 1 | A | 1131 | A |
| 1 | A | 1134 | A |
| 1 | A | 1135 | G |
| 1 | A | 1136 | U |
| 1 | A | 1138 | C |
| 1 | A | 1139 | G |
| 1 | A | 1141 | A |
| 1 | A | 1145 | G |
| 1 | A | 1148 | C |
| 1 | A | 1150 | C |
| 1 | A | 1152 | G |
| 1 | A | 1158 | G |
| 1 | A | 1177 | G |
| 1 | A | 1178 | U |
| 1 | A | 1179 | A |
| 1 | A | 1181 | C |
| 1 | A | 1182 | G |
| 1 | A | 1188 | A |
| 1 | A | 1189 | A |
| 1 | A | 1194 | A |
| 1 | A | 1197 | A |
| 1 | A | 1201 | A |
| 1 | A | 1202 | A |
| 1 | A | 1209 | G |
| 1 | A | 1218 | U |
| 1 | A | 1219 | C |
| 1 | A | 1220 | G |
| 1 | A | 1222 | A |
| 1 | A | 1236 | G |
| 1 | A | 1244 | A |
| 1 | A | 1246 | G |
| 1 | A | 1247 | G |
| 1 | A | 1248 | C |
| 1 | A | 1249 | U |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1250 | G |
| 1 | A | 1251 | U |
| 1 | A | 1268 | G |
| 1 | A | 1269 | A |
| 1 | A | 1278 | G |
| 1 | A | 1286 | A |
| 1 | A | 1289 | U |
| 1 | A | 1293 | A |
| 1 | A | 1295 | U |
| 1 | A | 1296 | G |
| 1 | A | 1305 | A |
| 1 | A | 1306 | G |
| 1 | A | 1312 | A |
| 1 | A | 1313 | A |
| 1 | A | 1314 | A |
| 1 | A | 1315 | G |
| 1 | A | 1319 | G |
| 1 | A | 1327 | U |
| 1 | A | 1339 | A |
| 1 | A | 1340 | A |
| 1 | A | 1341 | U |
| 1 | A | 1344 | C |
| 1 | A | 1345 | U |
| 1 | A | 1346 | A |
| 1 | A | 1352 | U |
| 1 | A | 1360 | A |
| 1 | A | 1363 | G |
| 1 | A | 1364 | C |
| 1 | A | 1375 | A |
| 1 | A | 1376 | G |
| 1 | A | 1380 | U |
| 1 | A | 1381 | A |
| 1 | A | 1382 | G |
| 1 | A | 1384 | C |
| 1 | A | 1388 | A |
| 1 | A | 1404 | A |
| 1 | A | 1417 | A |
| 1 | A | 1418 | U |
| 1 | A | 1423 | A |
| 1 | A | 1424 | A |
| 1 | A | 1426 | A |
| 1 | A | 1432 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1433 | U |
| 1 | A | 1434 | A |
| 1 | A | 1435 | U |
| 1 | A | 1436 | U |
| 1 | A | 1439 | U |
| 1 | A | 1441 | U |
| 1 | A | 1442 | A |
| 1 | A | 1450 | C |
| 1 | A | 1456 | A |
| 1 | A | 1459 | U |
| 1 | A | 1460 | G |
| 1 | A | 1464 | A |
| 1 | A | 1473 | A |
| 1 | A | 1474 | C |
| 1 | A | 1495 | C |
| 1 | A | 1496 | G |
| 1 | A | 1497 | G |
| 1 | A | 1498 | U |
| 1 | A | 1499 | A |
| 1 | A | 1504 | A |
| 1 | A | 1507 | U |
| 1 | A | 1513 | U |
| 1 | A | 1516 | A |
| 1 | A | 1517 | A |
| 1 | A | 1519 | C |
| 1 | A | 1520 | A |
| 1 | A | 1521 | G |
| 1 | A | 1523 | U |
| 1 | A | 1524 | A |
| 1 | A | 1528 | U |
| 1 | A | 1529 | G |
| 1 | A | 1530 | G |
| 1 | A | 1536 | A |
| 1 | A | 1539 | C |
| 1 | A | 1543 | U |
| 1 | A | 1553 | A |
| 1 | A | 1555 | A |
| 1 | A | 1558 | C |
| 1 | A | 1561 | G |
| 1 | A | 1562 | A |
| 1 | A | 1572 | G |
| 1 | A | 1573 | C |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1578 | G |
| 1 | A | 1581 | A |
| 1 | A | 1582 | U |
| 1 | A | 1583 | A |
| 1 | A | 1584 | U |
| 1 | A | 1585 | A |
| 1 | A | 1596 | U |
| 1 | A | 1600 | G |
| 1 | A | 1601 | A |
| 1 | A | 1607 | C |
| 1 | A | 1608 | A |
| 1 | A | 1615 | A |
| 1 | A | 1617 | A |
| 1 | A | 1626 | U |
| 1 | A | 1631 | A |
| 1 | A | 1632 | G |
| 1 | A | 1638 | A |
| 1 | A | 1640 | G |
| 1 | A | 1647 | U |
| 1 | A | 1648 | A |
| 1 | A | 1651 | G |
| 1 | A | 1652 | C |
| 1 | A | 1653 | A |
| 1 | A | 1655 | A |
| 1 | A | 1657 | C |
| 1 | A | 1658 | G |
| 1 | A | 1660 | C |
| 1 | A | 1667 | A |
| 1 | A | 1674 | G |
| 1 | A | 1679 | A |
| 1 | A | 1680 | A |
| 1 | A | 1688 | G |
| 1 | A | 1691 | A |
| 1 | A | 1693 | C |
| 1 | A | 1695 | A |
| 1 | A | 1696 | G |
| 1 | A | 1697 | A |
| 1 | A | 1707 | U |
| 1 | A | 1708 | U |
| 1 | A | 1712 | G |
| 1 | A | 1713 | A |
| 1 | A | 1719 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1727 | A |
| 1 | A | 1728 | C |
| 1 | A | 1739 | C |
| 1 | A | 1744 | G |
| 1 | A | 1745 | A |
| 1 | A | 1752 | G |
| 1 | A | 1756 | U |
| 1 | A | 1757 | G |
| 1 | A | 1758 | U |
| 1 | A | 1759 | U |
| 1 | A | 1767 | A |
| 1 | A | 1769 | G |
| 1 | A | 1771 | C |
| 1 | A | 1774 | A |
| 1 | A | 1776 | A |
| 1 | A | 1777 | G |
| 1 | A | 1778 | A |
| 1 | A | 1780 | C |
| 1 | A | 1781 | C |
| 1 | A | 1782 | G |
| 1 | A | 1785 | G |
| 1 | A | 1787 | G |
| 1 | A | 1788 | A |
| 1 | A | 1790 | U |
| 1 | A | 1791 | A |
| 1 | A | 1792 | G |
| 1 | A | 1793 | G |
| 1 | A | 1796 | C |
| 1 | A | 1802 | A |
| 1 | A | 1810 | G |
| 1 | A | 1811 | C |
| 1 | A | 1814 | A |
| 1 | A | 1829 | C |
| 1 | A | 1830 | G |
| 1 | A | 1831 | A |
| 1 | A | 1832 | A |
| 1 | A | 1834 | C |
| 1 | A | 1839 | A |
| 1 | A | 1858 | A |
| 1 | A | 1862 | C |
| 1 | A | 1876 | A |
| 1 | A | 1877 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1882 | A |
| 1 | A | 1897 | C |
| 1 | A | 1900 | A |
| 1 | A | 1901 | A |
| 1 | A | 1902 | G |
| 1 | A | 1910 | G |
| 1 | A | 1912 | G |
| 1 | A | 1913 | A |
| 1 | A | 1916 | U |
| 1 | A | 1918 | A |
| 1 | A | 1919 | A |
| 1 | A | 1925 | A |
| 1 | A | 1930 | A |
| 1 | A | 1935 | G |
| 1 | A | 1942 | A |
| 1 | A | 1943 | C |
| 1 | A | 1944 | U |
| 1 | A | 1948 | A |
| 1 | A | 1954 | C |
| 1 | A | 1959 | G |
| 1 | A | 1960 | U |
| 1 | A | 1966 | A |
| 1 | A | 1967 | A |
| 1 | A | 1968 | U |
| 1 | A | 1969 | U |
| 1 | A | 1972 | U |
| 1 | A | 1981 | A |
| 1 | A | 1984 | U |
| 1 | A | 1992 | C |
| 1 | A | 1995 | A |
| 1 | A | 1996 | C |
| 1 | A | 1999 | A |
| 1 | A | 2000 | A |
| 1 | A | 2001 | G |
| 1 | A | 2010 | A |
| 1 | A | 2011 | U |
| 1 | A | 2012 | C |
| 1 | A | 2020 | U |
| 1 | A | 2024 | U |
| 1 | A | 2026 | A |
| 1 | A | 2027 | A |
| 1 | A | 2033 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 2042 | A |
| 1 | A | 2047 | A |
| 1 | A | 2052 | A |
| 1 | A | 2059 | A |
| 1 | A | 2060 | A |
| 1 | A | 2062 | A |
| 1 | A | 2072 | C |
| 1 | A | 2084 | C |
| 1 | A | 2085 | G |
| 1 | A | 2088 | A |
| 1 | A | 2089 | A |
| 1 | A | 2090 | G |
| 1 | A | 2091 | A |
| 1 | A | 2092 | C |
| 1 | A | 2098 | G |
| 1 | A | 2111 | A |
| 1 | A | 2115 | U |
| 1 | A | 2116 | G |
| 1 | A | 2118 | U |
| 1 | A | 2119 | A |
| 1 | A | 2121 | U |
| 1 | A | 2122 | G |
| 1 | A | 2124 | A |
| 1 | A | 2125 | U |
| 1 | A | 2126 | G |
| 1 | A | 2130 | G |
| 1 | A | 2131 | U |
| 1 | A | 2132 | A |
| 1 | A | 2140 | U |
| 1 | A | 2142 | C |
| 1 | A | 2143 | A |
| 1 | A | 2145 | G |
| 1 | A | 2147 | U |
| 1 | A | 2149 | G |
| 1 | A | 2151 | U |
| 1 | A | 2155 | A |
| 1 | A | 2156 | G |
| 1 | A | 2157 | C |
| 1 | A | 2160 | U |
| 1 | A | 2161 | G |
| 1 | A | 2162 | G |
| 1 | A | 2166 | C |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 2167 | C |
| 1 | A | 2173 | G |
| 1 | A | 2174 | C |
| 1 | A | 2175 | C |
| 1 | A | 2176 | A |
| 1 | A | 2177 | G |
| 1 | A | 2187 | A |
| 1 | A | 2190 | C |
| 1 | A | 2195 | G |
| 1 | A | 2196 | U |
| 1 | A | 2197 | G |
| 1 | A | 2198 | G |
| 1 | A | 2199 | G |
| 1 | A | 2200 | A |
| 1 | A | 2201 | U |
| 1 | A | 2202 | A |
| 1 | A | 2203 | C |
| 1 | A | 2213 | U |
| 1 | A | 2218 | U |
| 1 | A | 2222 | C |
| 1 | A | 2227 | A |
| 1 | A | 2229 | C |
| 1 | A | 2230 | C |
| 1 | A | 2231 | C |
| 1 | A | 2232 | G |
| 1 | A | 2233 | C |
| 1 | A | 2239 | U |
| 1 | A | 2240 | U |
| 1 | A | 2241 | A |
| 1 | A | 2242 | U |
| 1 | A | 2243 | C |
| 1 | A | 2244 | G |
| 1 | A | 2245 | G |
| 1 | A | 2246 | G |
| 1 | A | 2247 | C |
| 1 | A | 2248 | G |
| 1 | A | 2249 | G |
| 1 | A | 2250 | G |
| 1 | A | 2252 | A |
| 1 | A | 2254 | A |
| 1 | A | 2255 | C |
| 1 | A | 2258 | U |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 2259 | G |
| 1 | A | 2267 | G |
| 1 | A | 2268 | G |
| 1 | A | 2279 | G |
| 1 | A | 2295 | A |
| 1 | A | 2296 | A |
| 1 | A | 2308 | G |
| 1 | A | 2312 | C |
| 1 | A | 2315 | A |
| 1 | A | 2333 | G |
| 1 | A | 2334 | U |
| 1 | A | 2335 | U |
| 1 | A | 2336 | G |
| 1 | A | 2337 | G |
| 1 | A | 2339 | A |
| 1 | A | 2340 | A |
| 1 | A | 2343 | A |
| 1 | A | 2345 | U |
| 1 | A | 2346 | C |
| 1 | A | 2347 | G |
| 1 | A | 2348 | C |
| 1 | A | 2349 | A |
| 1 | A | 2350 | G |
| 1 | A | 2351 | A |
| 1 | A | 2352 | G |
| 1 | A | 2356 | A |
| 1 | A | 2357 | A |
| 1 | A | 2362 | A |
| 1 | A | 2363 | C |
| 1 | A | 2364 | A |
| 1 | A | 2369 | A |
| 1 | A | 2376 | C |
| 1 | A | 2377 | U |
| 1 | A | 2379 | C |
| 1 | A | 2387 | A |
| 1 | A | 2390 | A |
| 1 | A | 2400 | G |
| 1 | A | 2411 | G |
| 1 | A | 2412 | G |
| 1 | A | 2414 | C |
| 1 | A | 2420 | G |
| 1 | A | 2421 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 2431 | U |
| 1 | A | 2435 | C |
| 1 | A | 2453 | C |
| 1 | A | 2454 | A |
| 1 | A | 2455 | A |
| 1 | A | 2456 | C |
| 1 | A | 2458 | G |
| 1 | A | 2459 | A |
| 1 | A | 2460 | U |
| 1 | A | 2463 | A |
| 1 | A | 2464 | A |
| 1 | A | 2468 | A |
| 1 | A | 2469 | C |
| 1 | A | 2470 | C |
| 1 | A | 2477 | A |
| 1 | A | 2483 | G |
| 1 | A | 2505 | A |
| 1 | A | 2513 | G |
| 1 | A | 2523 | G |
| 1 | A | 2528 | C |
| 1 | A | 2531 | G |
| 1 | A | 2532 | A |
| 1 | A | 2533 | U |
| 1 | A | 2534 | G |
| 1 | A | 2536 | C |
| 1 | A | 2541 | C |
| 1 | A | 2542 | A |
| 1 | A | 2543 | U |
| 1 | A | 2546 | C |
| 1 | A | 2547 | A |
| 1 | A | 2558 | G |
| 1 | A | 2569 | C |
| 1 | A | 2570 | A |
| 1 | A | 2571 | A |
| 1 | A | 2572 | G |
| 1 | A | 2575 | U |
| 1 | A | 2576 | U |
| 1 | A | 2583 | U |
| 1 | A | 2594 | A |
| 1 | A | 2595 | A |
| 1 | A | 2596 | G |
| 1 | A | 2601 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 2602 | C |
| 1 | A | 2610 | G |
| 1 | A | 2611 | G |
| 1 | A | 2614 | U |
| 1 | A | 2619 | A |
| 1 | A | 2630 | C |
| 1 | A | 2631 | A |
| 1 | A | 2638 | U |
| 1 | A | 2639 | C |
| 1 | A | 2642 | U |
| 1 | A | 2648 | U |
| 1 | A | 2658 | A |
| 1 | A | 2661 | A |
| 1 | A | 2663 | A |
| 1 | A | 2668 | A |
| 1 | A | 2680 | C |
| 1 | A | 2683 | A |
| 1 | A | 2684 | G |
| 1 | A | 2711 | G |
| 1 | A | 2714 | G |
| 1 | A | 2717 | G |
| 1 | A | 2718 | U |
| 1 | A | 2720 | C |
| 1 | A | 2730 | U |
| 1 | A | 2731 | G |
| 1 | A | 2743 | G |
| 1 | A | 2754 | A |
| 1 | A | 2755 | U |
| 1 | A | 2766 | G |
| 1 | A | 2773 | G |
| 1 | A | 2779 | A |
| 1 | A | 2780 | G |
| 1 | A | 2784 | C |
| 1 | A | 2785 | U |
| 1 | A | 2786 | A |
| 1 | A | 2787 | A |
| 1 | A | 2790 | A |
| 1 | A | 2794 | A |
| 1 | A | 2795 | G |
| 1 | A | 2797 | C |
| 1 | A | 2798 | C |
| 1 | A | 2800 | C |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 2804 | A |
| 1 | A | 2807 | A |
| 1 | A | 2808 | U |
| 1 | A | 2809 | G |
| 1 | A | 2813 | U |
| 1 | A | 2818 | C |
| 1 | A | 2819 | A |
| 1 | A | 2820 | U |
| 1 | A | 2825 | C |
| 1 | A | 2826 | A |
| 1 | A | 2843 | G |
| 1 | A | 2855 | G |
| 1 | A | 2858 | U |
| 1 | A | 2859 | G |
| 1 | A | 2860 | A |
| 1 | A | 2869 | A |
| 1 | A | 2873 | G |
| 1 | A | 2874 | G |
| 1 | A | 2892 | G |
| 1 | A | 2897 | G |
| 1 | A | 2898 | A |
| 1 | A | 2899 | C |
| 1 | A | 2902 | A |
| 1 | A | 2905 | C |
| 1 | A | 2909 | U |
| 1 | A | 2918 | G |
| 1 | A | 2919 | A |
| 2 | B | 10 | G |
| 2 | B | 11 | A |
| 2 | B | 12 | U |
| 2 | B | 13 | A |
| 2 | B | 20 | A |
| 2 | B | 23 | U |
| 2 | B | 28 | C |
| 2 | B | 37 | A |
| 2 | B | 39 | A |
| 2 | B | 40 | C |
| 2 | B | 41 | C |
| 2 | B | 42 | G |
| 2 | B | 46 | A |
| 2 | B | 48 | G |
| 2 | B | 49 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 2 | B | 50 | A |
| 2 | B | 51 | A |
| 2 | B | 55 | A |
| 2 | B | 59 | U |
| 2 | B | 60 | C |
| 2 | B | 61 | U |
| 2 | B | 63 | C |
| 2 | B | 64 | A |
| 2 | B | 81 | G |
| 2 | B | 85 | U |
| 2 | B | 86 | U |
| 2 | B | 87 | U |
| 2 | B | 88 | C |
| 2 | B | 96 | G |
| 2 | B | 97 | A |
| 2 | B | 107 | G |
| 2 | B | 110 | G |
| 31 | W | 10 | A |
| 31 | W | 11 | G |
| 31 | W | 34 | A |
| 31 | W | 41 | G |
| 31 | W | 49 | C |
| 31 | W | 50 | C |
| 31 | W | 52 | A |
| 31 | W | 53 | A |
| 31 | W | 83 | C |
| 31 | W | 85 | U |
| 31 | W | 87 | C |
| 31 | W | 88 | U |
| 31 | W | 99 | A |
| 31 | W | 114 | A |
| 31 | W | 118 | A |
| 31 | W | 119 | C |
| 31 | W | 120 | A |
| 31 | W | 127 | U |
| 31 | W | 129 | A |
| 31 | W | 130 | C |
| 31 | W | 140 | A |
| 31 | W | 142 | A |
| 31 | W | 143 | C |
| 31 | W | 151 | A |
| 31 | W | 158 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 31 | W | 162 | C |
| 31 | W | 163 | C |
| 31 | W | 182 | U |
| 31 | W | 183 | U |
| 31 | W | 194 | C |
| 31 | W | 195 | A |
| 31 | W | 197 | G |
| 31 | W | 210 | A |
| 31 | W | 222 | G |
| 31 | W | 249 | G |
| 31 | W | 255 | G |
| 31 | W | 258 | A |
| 31 | W | 259 | G |
| 31 | W | 274 | G |
| 31 | W | 275 | C |
| 31 | W | 287 | A |
| 31 | W | 288 | C |
| 31 | W | 297 | G |
| 31 | W | 336 | C |
| 31 | W | 337 | A |
| 31 | W | 338 | C |
| 31 | W | 340 | G |
| 31 | W | 355 | G |
| 31 | W | 360 | C |
| 31 | W | 362 | G |
| 31 | W | 375 | U |
| 31 | W | 380 | C |
| 31 | W | 405 | A |
| 31 | W | 414 | G |
| 31 | W | 419 | A |
| 31 | W | 420 | U |
| 31 | W | 421 | G |
| 31 | W | 422 | A |
| 31 | W | 429 | U |
| 31 | W | 430 | C |
| 31 | W | 432 | G |
| 31 | W | 437 | U |
| 31 | W | 456 | A |
| 31 | W | 457 | A |
| 31 | W | 460 | A |
| 31 | W | 472 | C |
| 31 | W | 474 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 31 | W | 475 | A |
| 31 | W | 476 | U |
| 31 | W | 477 | A |
| 31 | W | 488 | U |
| 31 | W | 490 | G |
| 31 | W | 491 | A |
| 31 | W | 494 | G |
| 31 | W | 506 | A |
| 31 | W | 507 | A |
| 31 | W | 518 | A |
| 31 | W | 520 | C |
| 31 | W | 527 | C |
| 31 | W | 528 | C |
| 31 | W | 533 | G |
| 31 | W | 536 | G |
| 31 | W | 541 | A |
| 31 | W | 556 | A |
| 31 | W | 568 | A |
| 31 | W | 572 | A |
| 31 | W | 581 | A |
| 31 | W | 582 | A |
| 31 | W | 585 | G |
| 31 | W | 586 | G |
| 31 | W | 605 | A |
| 31 | W | 642 | U |
| 31 | W | 643 | C |
| 31 | W | 651 | A |
| 31 | W | 662 | U |
| 31 | W | 674 | A |
| 31 | W | 696 | A |
| 31 | W | 704 | A |
| 31 | W | 711 | A |
| 31 | W | 727 | A |
| 31 | W | 728 | C |
| 31 | W | 729 | C |
| 31 | W | 730 | A |
| 31 | W | 732 | U |
| 31 | W | 740 | G |
| 31 | W | 741 | C |
| 31 | W | 756 | U |
| 31 | W | 757 | A |
| 31 | W | 764 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 31 | W | 786 | A |
| 31 | W | 793 | A |
| 31 | W | 802 | U |
| 31 | W | 803 | A |
| 31 | W | 823 | A |
| 31 | W | 824 | A |
| 31 | W | 826 | C |
| 31 | W | 830 | G |
| 31 | W | 837 | A |
| 31 | W | 838 | A |
| 31 | W | 843 | U |
| 31 | W | 849 | G |
| 31 | W | 856 | C |
| 31 | W | 865 | G |
| 31 | W | 874 | A |
| 31 | W | 880 | U |
| 31 | W | 881 | U |
| 31 | W | 882 | A |
| 31 | W | 883 | A |
| 31 | W | 924 | A |
| 31 | W | 936 | G |
| 31 | W | 944 | C |
| 31 | W | 945 | A |
| 31 | W | 948 | A |
| 31 | W | 970 | U |
| 31 | W | 974 | A |
| 31 | W | 979 | A |
| 31 | W | 981 | G |
| 31 | W | 984 | A |
| 31 | W | 985 | A |
| 31 | W | 986 | G |
| 31 | W | 987 | A |
| 31 | W | 992 | U |
| 31 | W | 993 | A |
| 31 | W | 1003 | G |
| 31 | W | 1004 | A |
| 31 | W | 1012 | U |
| 31 | W | 1014 | A |
| 31 | W | 1018 | U |
| 31 | W | 1027 | U |
| 31 | W | 1028 | A |
| 31 | W | 1033 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 31 | W | 1036 | C |
| 31 | W | 1040 | U |
| 31 | W | 1042 | G |
| 31 | W | 1044 | G |
| 31 | W | 1046 | G |
| 31 | W | 1053 | G |
| 31 | W | 1054 | A |
| 31 | W | 1060 | G |
| 31 | W | 1064 | C |
| 31 | W | 1075 | U |
| 31 | W | 1104 | G |
| 31 | W | 1105 | U |
| 31 | W | 1111 | A |
| 31 | W | 1112 | A |
| 31 | W | 1143 | A |
| 31 | W | 1148 | G |
| 31 | W | 1149 | U |
| 31 | W | 1150 | U |
| 31 | W | 1151 | G |
| 31 | W | 1155 | A |
| 31 | W | 1161 | A |
| 31 | W | 1168 | U |
| 31 | W | 1169 | G |
| 31 | W | 1170 | C |
| 31 | W | 1177 | C |
| 31 | W | 1191 | G |
| 31 | W | 1192 | U |
| 31 | W | 1193 | G |
| 31 | W | 1200 | A |
| 31 | W | 1205 | A |
| 31 | W | 1206 | A |
| 31 | W | 1210 | A |
| 31 | W | 1211 | U |
| 31 | W | 1221 | U |
| 31 | W | 1222 | A |
| 31 | W | 1223 | U |
| 31 | W | 1230 | G |
| 31 | W | 1237 | C |
| 31 | W | 1247 | A |
| 31 | W | 1250 | G |
| 31 | W | 1266 | A |
| 31 | W | 1269 | G |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 31 | W | 1289 | A |
| 31 | W | 1295 | C |
| 31 | W | 1296 | A |
| 31 | W | 1308 | A |
| 31 | W | 1313 | G |
| 31 | W | 1314 | G |
| 31 | W | 1326 | C |
| 31 | W | 1329 | C |
| 31 | W | 1331 | C |
| 31 | W | 1332 | G |
| 31 | W | 1341 | A |
| 31 | W | 1343 | G |
| 31 | W | 1345 | U |
| 31 | W | 1346 | G |
| 31 | W | 1355 | A |
| 31 | W | 1373 | U |
| 31 | W | 1377 | G |
| 31 | W | 1407 | A |
| 31 | W | 1435 | A |
| 31 | W | 1451 | A |
| 31 | W | 1452 | G |
| 31 | W | 1455 | A |
| 31 | W | 1461 | U |
| 31 | W | 1462 | U |
| 31 | W | 1463 | A |
| 31 | W | 1464 | G |
| 31 | W | 1490 | A |
| 31 | W | 1502 | A |
| 31 | W | 1503 | A |
| 31 | W | 1504 | G |
| 31 | W | 1509 | A |
| 31 | W | 1513 | A |
| 31 | W | 1515 | G |
| 31 | W | 1516 | U |
| 31 | W | 1527 | G |
| 31 | W | 1539 | G |
| 31 | W | 1540 | G |
| 31 | W | 1541 | A |
| 31 | W | 1544 | A |
| 31 | W | 1545 | C |
| 31 | W | 1547 | U |
| 31 | W | 1548 | C |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 51 | y | 9 | A |
| 51 | y | 18 | G |
| 51 | y | 19 | U |
| 51 | y | 21 | A |
| 51 | y | 34 | G |
| 51 | y | 35 | U |
| 51 | y | 36 | C |
| 51 | y | 48 | C |
| 51 | y | 49 | G |
| 51 | y | 55 | U |
| 51 | y | 56 | C |
| 51 | y | 57 | G |
| 51 | y | 70 | A |
| 51 | y | 72 | C |
| 51 | y | 73 | G |
| 51 | y | 74 | C |
| 51 | y | 75 | C |
| 51 | y | 76 | A |
| 51 | 1 | 9 | A |
| 51 | 1 | 18 | G |
| 51 | 1 | 19 | U |
| 51 | 1 | 21 | A |
| 51 | 1 | 34 | G |
| 51 | 1 | 35 | U |
| 51 | 1 | 36 | C |
| 51 | 1 | 48 | C |
| 51 | 1 | 49 | G |
| 51 | 1 | 55 | U |
| 51 | 1 | 56 | C |
| 51 | 1 | 57 | G |
| 51 | 1 | 70 | A |
| 51 | 1 | 73 | G |
| 51 | 1 | 76 | A |

All (105) RNA pucker outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 43 | G |
| 1 | A | 58 | G |
| 1 | A | 90 | A |
| 1 | A | 118 | A |
| 1 | A | 124 | A |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 163 | U |
| 1 | A | 175 | G |
| 1 | A | 183 | A |
| 1 | A | 207 | A |
| 1 | A | 229 | A |
| 1 | A | 252 | C |
| 1 | A | 271 | C |
| 1 | A | 288 | C |
| 1 | A | 298 | U |
| 1 | A | 366 | A |
| 1 | A | 377 | G |
| 1 | A | 405 | U |
| 1 | A | 419 | G |
| 1 | A | 526 | A |
| 1 | A | 549 | A |
| 1 | A | 647 | A |
| 1 | A | 649 | G |
| 1 | A | 666 | G |
| 1 | A | 683 | A |
| 1 | A | 717 | A |
| 1 | A | 785 | C |
| 1 | A | 837 | U |
| 1 | A | 847 | A |
| 1 | A | 934 | U |
| 1 | A | 936 | C |
| 1 | A | 1019 | A |
| 1 | A | 1066 | A |
| 1 | A | 1092 | A |
| 1 | A | 1103 | A |
| 1 | A | 1107 | U |
| 1 | A | 1117 | G |
| 1 | A | 1173 | A |
| 1 | A | 1245 | G |
| 1 | A | 1250 | G |
| 1 | A | 1305 | A |
| 1 | A | 1339 | A |
| 1 | A | 1351 | U |
| 1 | A | 1434 | A |
| 1 | A | 1438 | C |
| 1 | A | 1455 | C |
| 1 | A | 1527 | C |
| 1 | A | 1535 | U |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | A | 1581 | A |
| 1 | A | 1595 | U |
| 1 | A | 1630 | G |
| 1 | A | 1652 | C |
| 1 | A | 1679 | A |
| 1 | A | 1755 | C |
| 1 | A | 1779 | G |
| 1 | A | 1784 | A |
| 1 | A | 1813 | A |
| 1 | A | 1876 | A |
| 1 | A | 1965 | A |
| 1 | A | 2121 | U |
| 1 | A | 2155 | A |
| 1 | A | 2199 | G |
| 1 | A | 2231 | C |
| 1 | A | 2245 | G |
| 1 | A | 2254 | A |
| 1 | A | 2267 | G |
| 1 | A | 2278 | U |
| 1 | A | 2295 | A |
| 1 | A | 2334 | U |
| 1 | A | 2348 | C |
| 1 | A | 2351 | A |
| 1 | A | 2454 | A |
| 1 | A | 2468 | A |
| 1 | A | 2504 | C |
| 1 | A | 2595 | A |
| 1 | A | 2631 | A |
| 1 | A | 2683 | A |
| 1 | A | 2710 | C |
| 1 | A | 2716 | U |
| 1 | A | 2779 | A |
| 1 | A | 2784 | C |
| 1 | A | 2785 | U |
| 1 | A | 2807 | A |
| 1 | A | 2812 | A |
| 2 | B | 38 | U |
| 2 | B | 47 | C |
| 2 | B | 54 | U |
| 2 | B | 59 | U |
| 31 | W | 98 | U |
| 31 | W | 113 | G |

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| Mol | Chain | Res | Type |
|-----|-------|------|------|
| 31 | W | 119 | C |
| 31 | W | 126 | G |
| 31 | W | 436 | G |
| 31 | W | 641 | G |
| 31 | W | 842 | U |
| 31 | W | 848 | G |
| 31 | W | 855 | G |
| 31 | W | 864 | U |
| 31 | W | 873 | U |
| 31 | W | 1111 | A |
| 31 | W | 1154 | C |
| 31 | W | 1210 | A |
| 31 | W | 1461 | U |
| 31 | W | 1501 | G |
| 31 | W | 1544 | A |
| 51 | 1 | 47 | U |

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

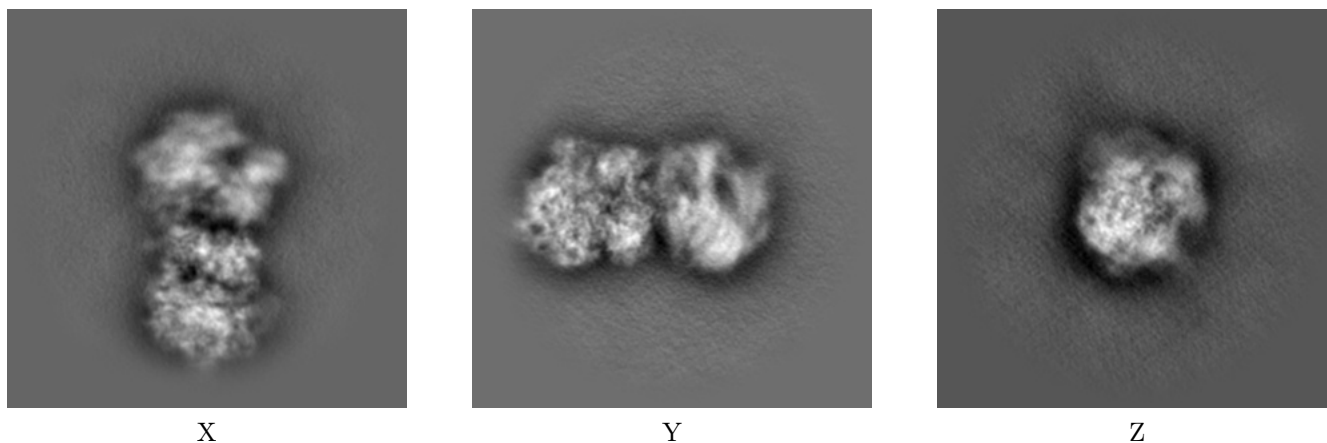
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-13961. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

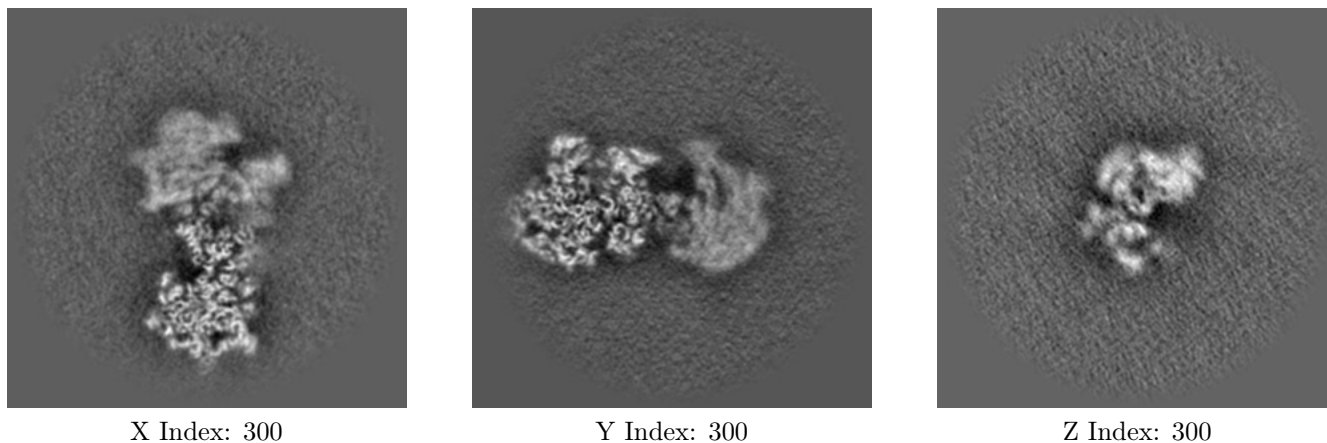
6.1.1 Primary map



The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

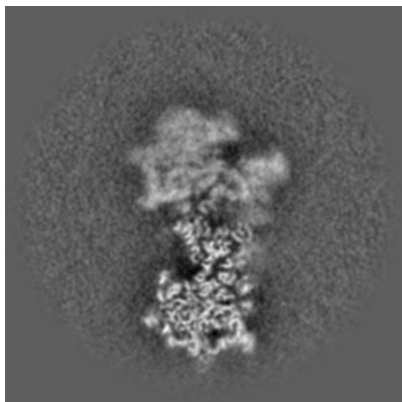
6.2.1 Primary map



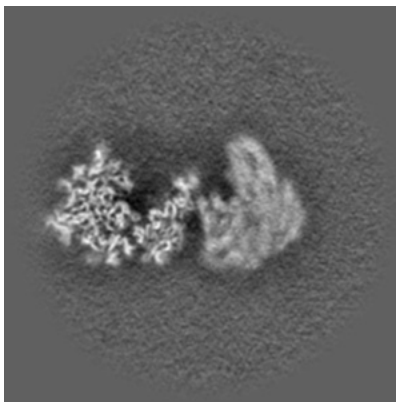
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

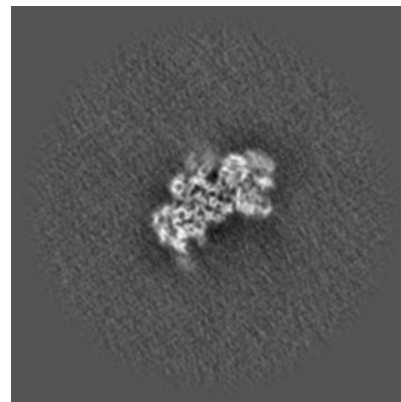
6.3.1 Primary map



X Index: 299



Y Index: 273

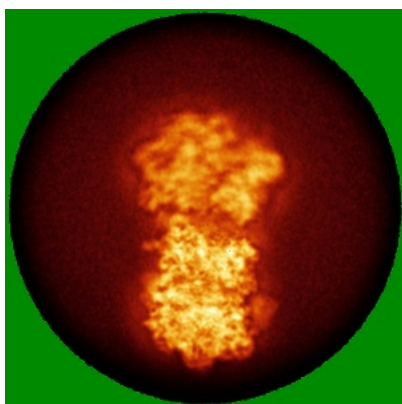


Z Index: 236

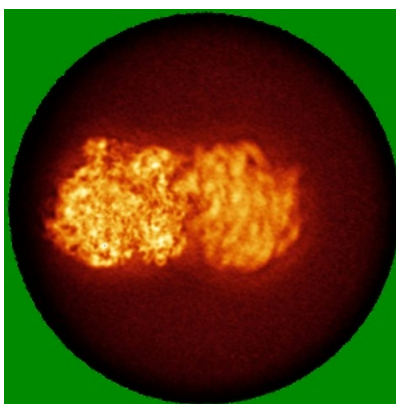
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

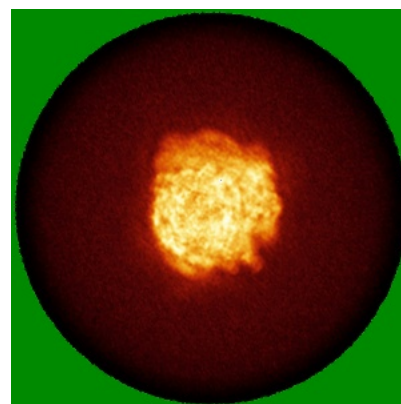
6.4.1 Primary map



X



Y

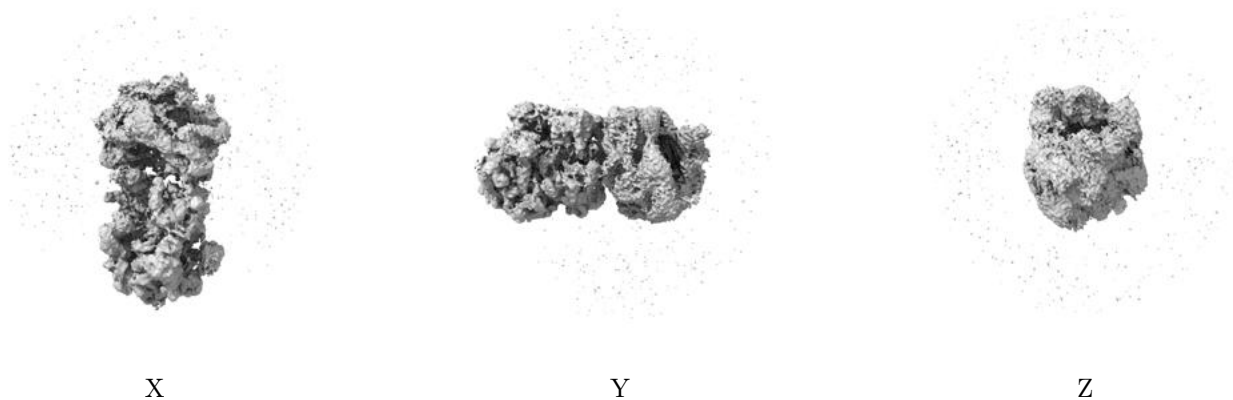


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.22. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

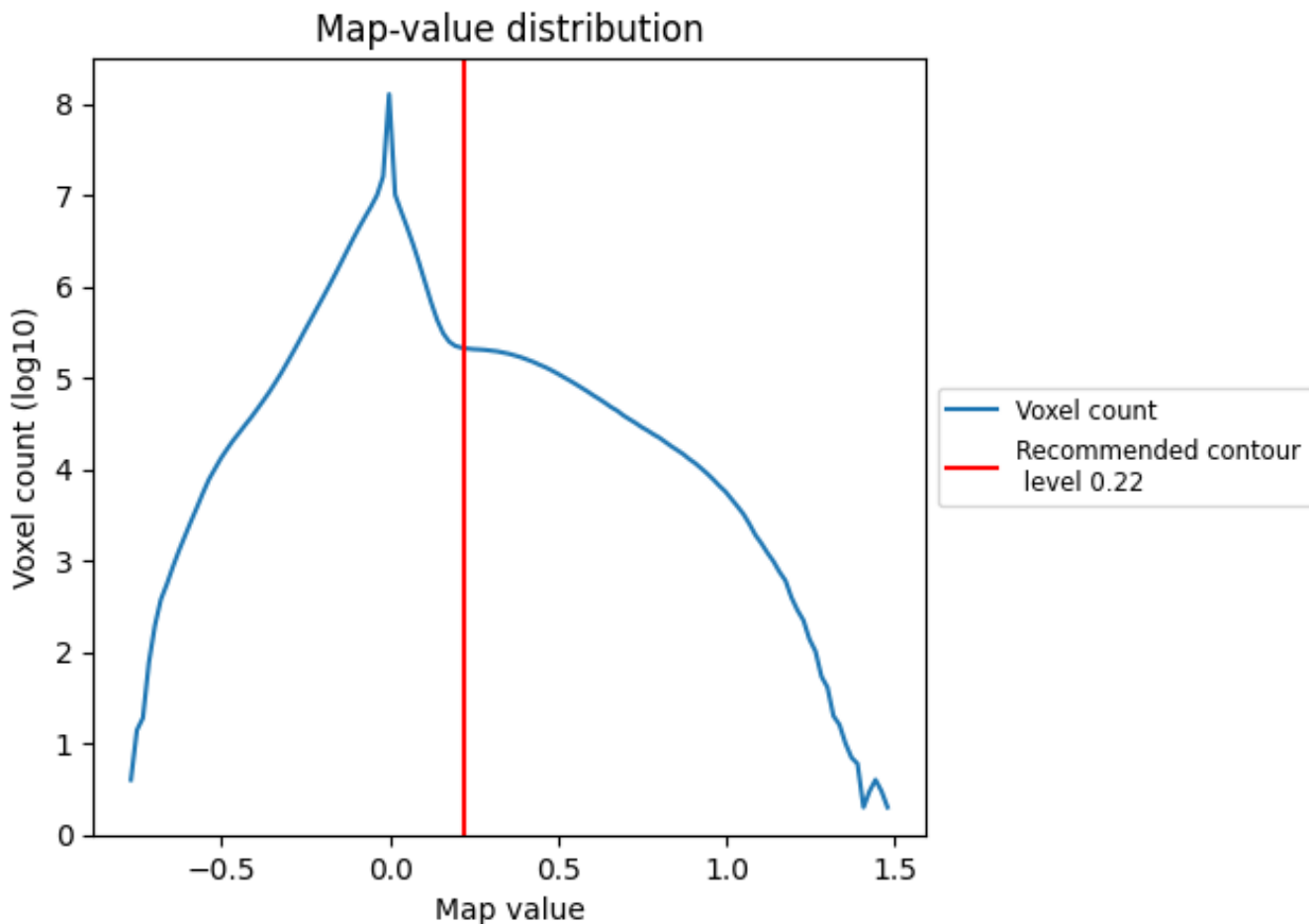
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

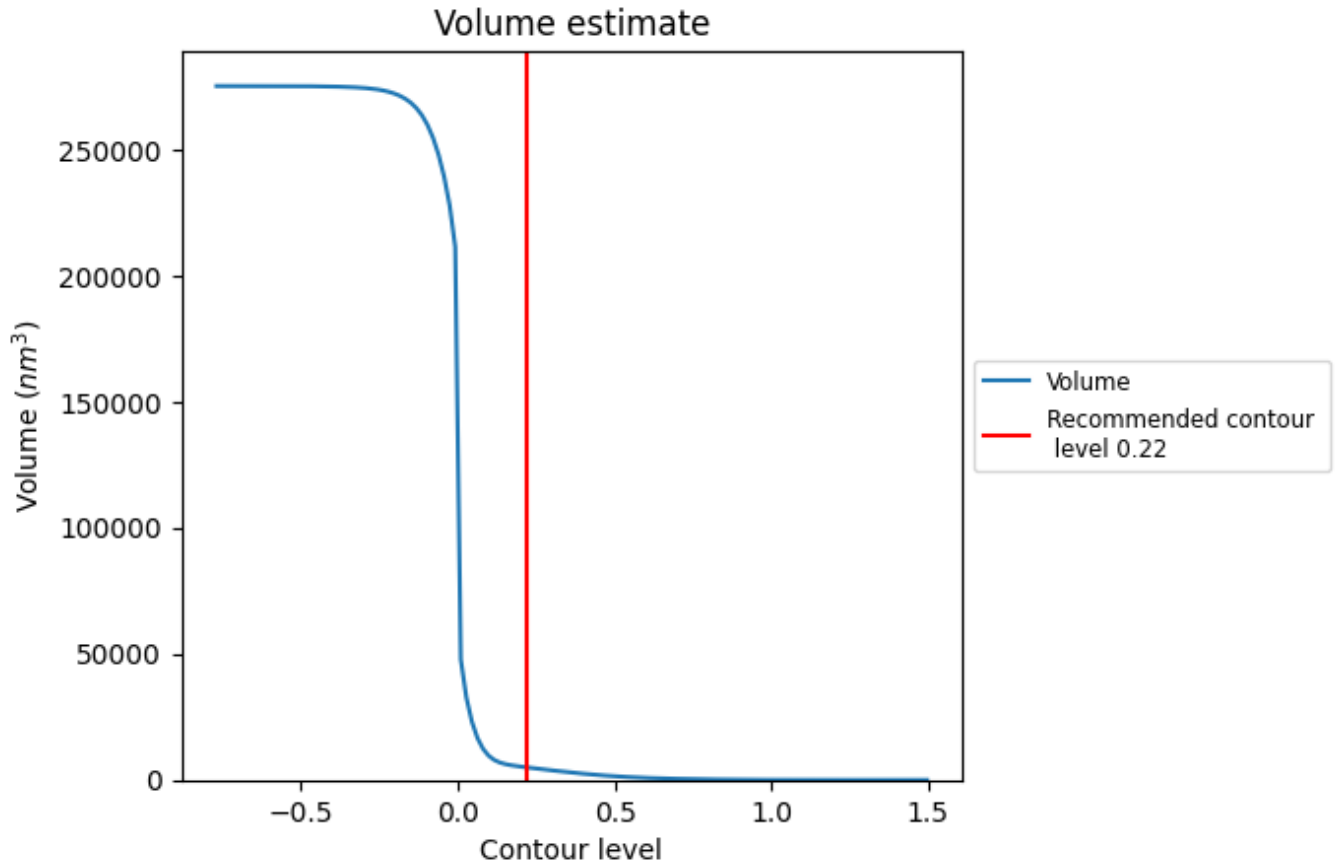
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

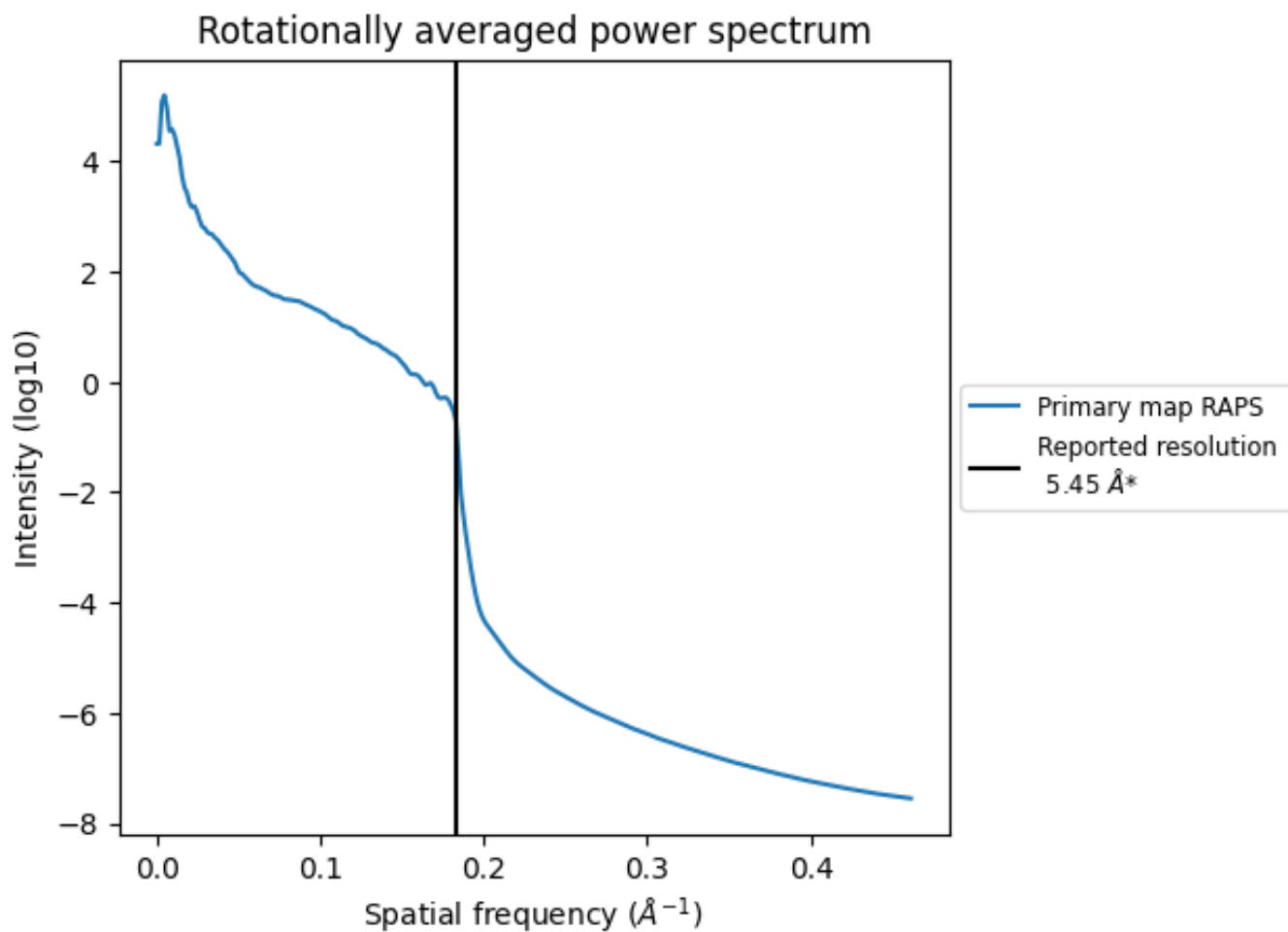
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4985 nm^3 ; this corresponds to an approximate mass of 4503 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum i



*Reported resolution corresponds to spatial frequency of 0.183 Å⁻¹

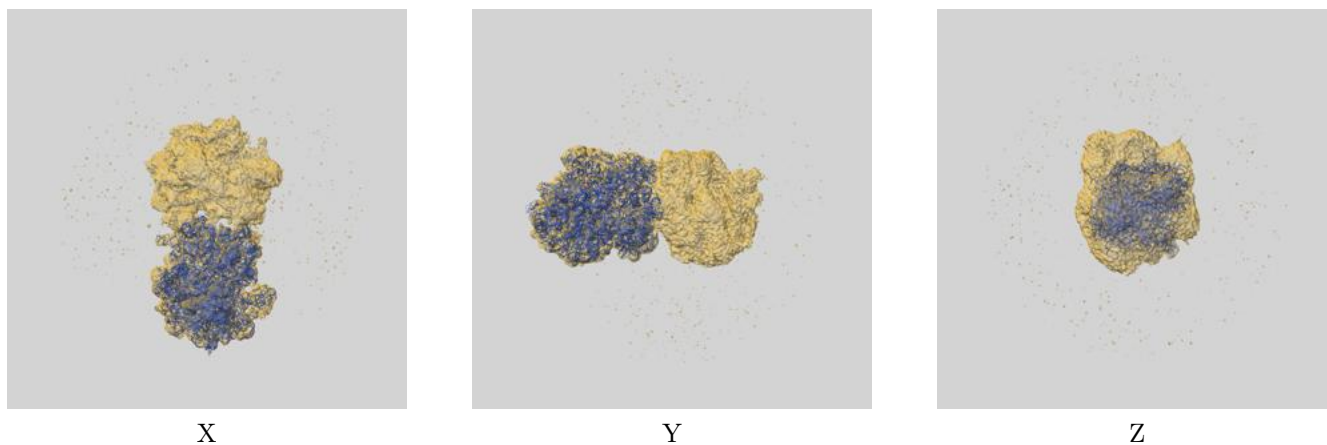
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

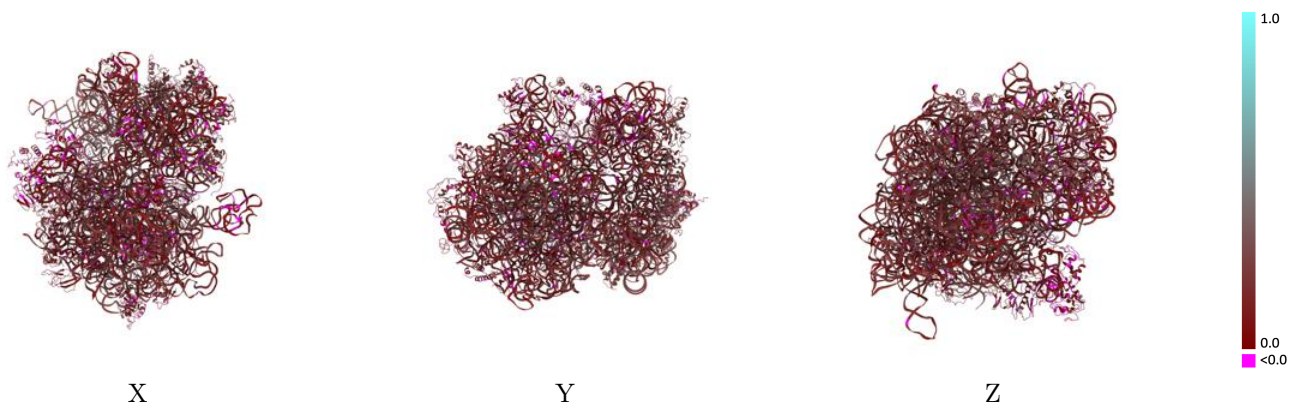
This section contains information regarding the fit between EMDB map EMD-13961 and PDB model 7QH4. Per-residue inclusion information can be found in section 3 on page 13.

9.1 Map-model overlay [i](#)



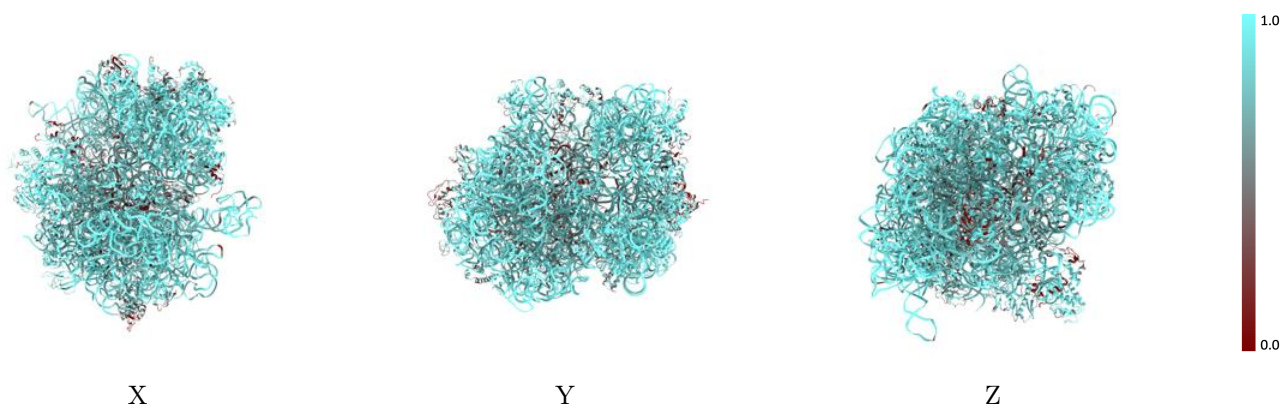
The images above show the 3D surface view of the map at the recommended contour level 0.22 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



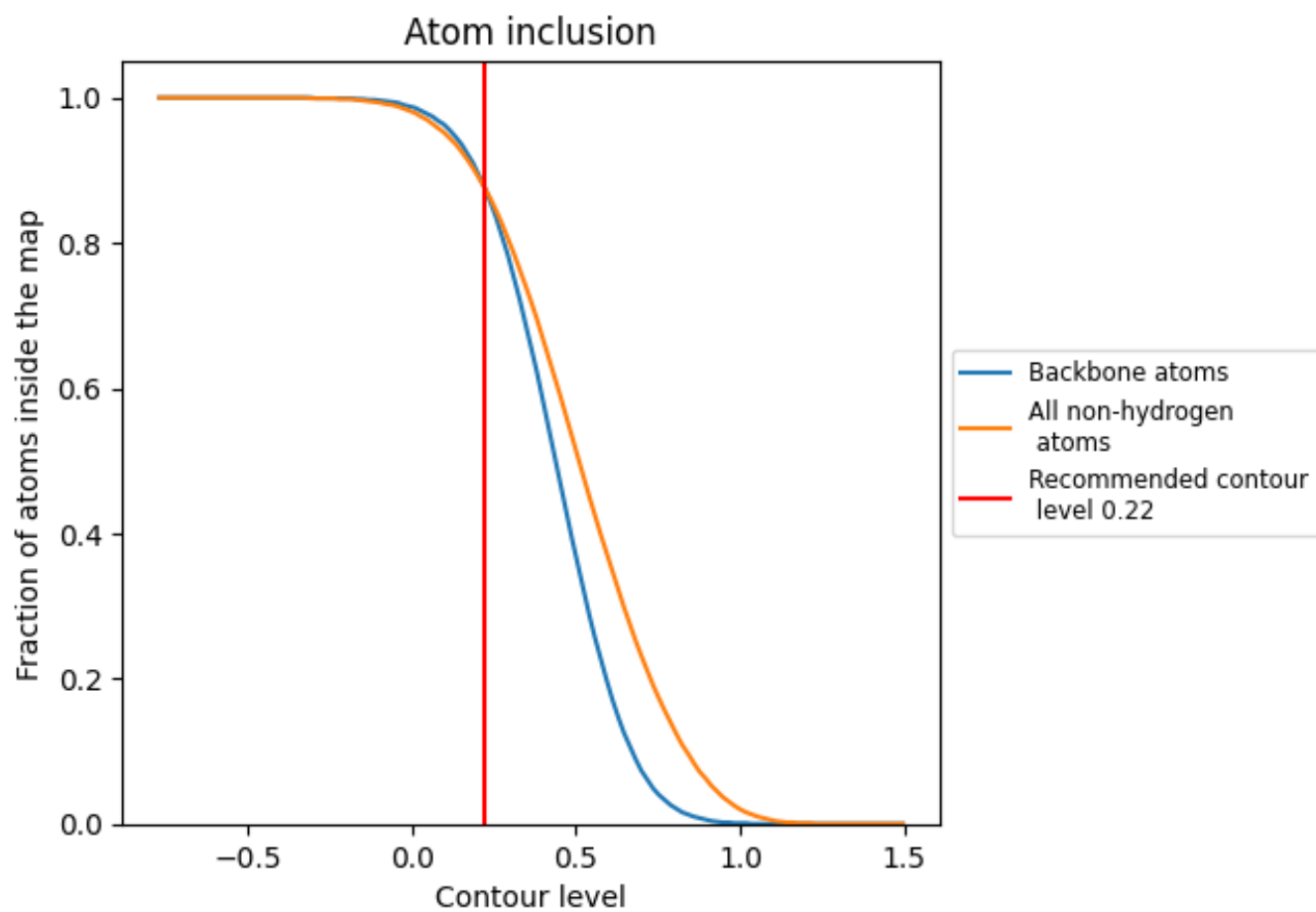
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.22).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 88% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary





































The table lists the average atom inclusion at the recommended contour level (0.22) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion | Q-score |
|-------|--|--|
| All |  0.8780 |  0.1680 |
| 1 |  0.6760 |  0.1600 |
| A |  0.9390 |  0.1840 |
| B |  0.9520 |  0.1650 |
| C |  0.5980 |  0.1140 |
| D |  0.7070 |  0.1130 |
| E |  0.4760 |  0.1250 |
| F |  0.6730 |  0.0990 |
| G |  0.8240 |  0.1160 |
| H |  0.8940 |  0.0720 |
| I |  0.5550 |  0.0520 |
| J |  0.7630 |  0.1250 |
| K |  0.5610 |  0.1310 |
| L |  0.6660 |  0.0960 |
| M |  0.5690 |  0.1140 |
| N |  0.8380 |  0.1160 |
| O |  0.8340 |  0.0880 |
| P |  0.7070 |  0.1370 |
| Q |  0.8000 |  0.1090 |
| R |  0.8330 |  0.1260 |
| S |  0.6950 |  0.1250 |
| T |  0.7780 |  0.1180 |
| U |  0.7400 |  0.1070 |
| V |  0.6720 |  0.0670 |
| W |  0.9460 |  0.1760 |
| X |  0.8000 |  0.2430 |
| Y |  0.5720 |  0.0820 |
| Z |  0.7940 |  0.1240 |
| a |  0.7980 |  0.1210 |
| b |  0.6930 |  0.1170 |
| c |  0.6820 |  0.1240 |
| d |  0.5250 |  0.0910 |
| e |  0.6070 |  0.0990 |
| f |  0.7770 |  0.0850 |
| g |  0.7330 |  0.2560 |



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| Chain | Atom inclusion | Q-score |
|-------|---|---|
| h |  0.4820 |  0.1830 |
| i |  0.6810 |  0.2470 |
| j |  0.8710 |  0.1880 |
| k |  0.8400 |  0.1880 |
| l |  0.9240 |  0.2310 |
| m |  0.9190 |  0.1480 |
| n |  0.8440 |  0.1840 |
| o |  0.7030 |  0.1710 |
| p |  0.6320 |  0.1890 |
| q |  0.8300 |  0.1190 |
| r |  0.9210 |  0.1960 |
| s |  0.9460 |  0.2380 |
| t |  0.9440 |  0.2470 |
| u |  0.8870 |  0.1770 |
| v |  0.8700 |  0.1880 |
| w |  0.8720 |  0.1060 |
| x |  0.8640 |  0.2110 |
| y |  0.5150 |  0.1260 |