# Full wwPDB EM Validation Report ⓘ

Dec 22, 2025 – 07:06 PM JST

| | | |
|---|---|---|
| PDB ID | : | 9KZ9 / pdb_00009kz9 |
| EMDB ID | : | EMD-62656 |
| Title | : | Cryo-EM structure of PSI-ACPI from Rhodomonas sp. NIES-2332 at 2.08 angstroms resolution |
| Authors | : | Zhang, W.Y.; Akita, F.; Shen, J.R. |
| Deposited on | : | 2024-12-10 |
| Resolution | : | 2.08 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:

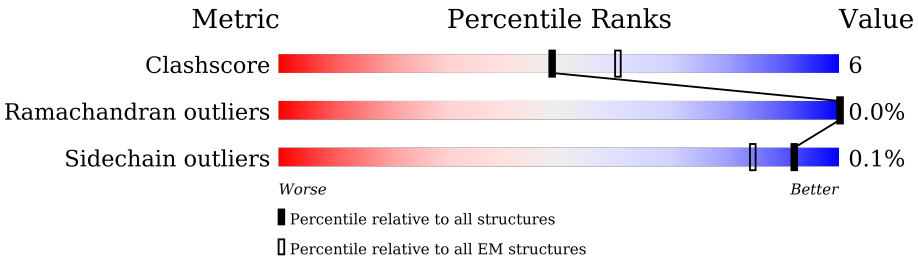
| | | |
|---|---|---|
| EMDB validation analysis | : | 0.0.1.dev129 |
| Mogul | : | 1.8.5 (274361), CSD as541be (2020) |
| MolProbity | : | 4-5-2 with Phenix2.0 |
| buster-report | : | 1.1.7 (2018) |
| Percentile statistics | : | 20231227.v01 (using entries in the PDB archive December 27th 2023) |
| EM percentile statistics | : | 202505.v01 (Using data in the EMDB archive up until May 2025) |
| MapQ | : | 1.9.13 |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | 2.47 |

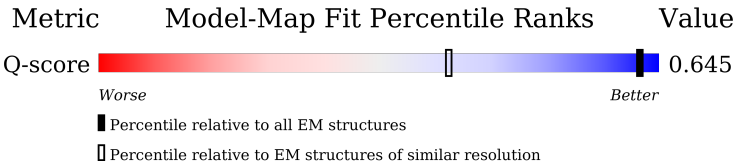
# 1 Overall quality at a glance

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

The reported resolution of this entry is 2.08 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) | Similar EM resolution (#Entries, resolution range(Å)) |
|---|---|---|---|
| Clashscore | 210492 | 15764 | - |
| Ramachandran outliers | 207382 | 16835 | - |
| Sidechain outliers | 206894 | 16415 | - |
| Q-score | - | 25397 | 1976 ( 1.58 - 2.58 ) |

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 <=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 | 752 | 87% 11% • |
| 2 | B | 734 | 88% 11% |
| 3 | C | 81 | 91% 7% • |
| 4 | D | 141 | 87% 11% • |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Length | Quality of chain |
|---|---|---|---|
| 5 | E | 64 | 94% 6% |
| 6 | F | 188 | 79% 7% 14% |
| 7 | I | 33 | 91% 9% |
| 8 | J | 42 | 79% 21% |
| 9 | L | 153 | 89% 9% |
| 10 | M | 30 | 90% 10% |
| 11 | O | 153 | 56% 5% 38% |
| 12 | K | 86 | 70% 9% 21% |
| 13 | s | 302 | 49% 49% |
| 14 | c | 215 | 67% 12% 21% |
| 15 | a | 217 | 71% 8% 21% |
| 16 | b | 236 | 65% 10% 25% |
| 17 | h | 229 | 66% 29% |
| 18 | f | 212 | 76% 6% 18% |
| 18 | j | 212 | 70% 11% 18% |
| 18 | m | 212 | 79% 18% |
| 19 | e | 210 | 72% 7% 21% |
| 20 | l | 175 | 87% 13% |
| 21 | k | 232 | 72% 9% 19% |
| 22 | i | 200 | 78% 11% 10% |
| 23 | d | 219 | 67% 9% 24% |
| 24 | g | 216 | 86% 14% |
| 25 | R | 135 | 61% 6% 33% |
| 26 | n | 220 | 70% 13% 18% |
| 27 | Q | 233 | 59% 39% |

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 28 | CL0 | A | 801 | X | - | - | - |
| 29 | CLA | A | 802 | X | - | - | - |
| 29 | CLA | A | 803 | X | - | - | - |
| 29 | CLA | A | 804 | X | - | - | - |
| 29 | CLA | A | 805 | X | - | - | - |
| 29 | CLA | A | 806 | X | - | - | - |
| 29 | CLA | A | 807 | X | - | - | - |
| 29 | CLA | A | 808 | X | - | - | - |
| 29 | CLA | A | 809 | X | - | - | - |
| 29 | CLA | A | 810 | X | - | - | - |
| 29 | CLA | A | 811 | X | - | - | - |
| 29 | CLA | A | 812 | X | - | - | - |
| 29 | CLA | A | 813 | X | - | - | - |
| 29 | CLA | A | 814 | X | - | - | - |
| 29 | CLA | A | 815 | X | - | - | - |
| 29 | CLA | A | 816 | X | - | - | - |
| 29 | CLA | A | 817 | X | - | - | - |
| 29 | CLA | A | 818 | X | - | - | - |
| 29 | CLA | A | 819 | X | - | - | - |
| 29 | CLA | A | 820 | X | - | - | - |
| 29 | CLA | A | 821 | X | - | - | - |
| 29 | CLA | A | 822 | X | - | - | - |
| 29 | CLA | A | 823 | X | - | - | - |
| 29 | CLA | A | 824 | X | - | - | - |
| 29 | CLA | A | 825 | X | - | - | - |
| 29 | CLA | A | 826 | X | - | - | - |
| 29 | CLA | A | 827 | X | - | - | - |
| 29 | CLA | A | 828 | X | - | - | - |
| 29 | CLA | A | 829 | X | - | - | - |
| 29 | CLA | A | 830 | X | - | - | - |
| 29 | CLA | A | 831 | X | - | - | - |
| 29 | CLA | A | 832 | X | - | - | - |
| 29 | CLA | A | 833 | X | - | - | - |
| 29 | CLA | A | 834 | X | - | - | - |
| 29 | CLA | A | 835 | X | - | - | - |
| 29 | CLA | A | 836 | X | - | - | - |
| 29 | CLA | A | 837 | X | - | - | - |
| 29 | CLA | A | 838 | X | - | - | - |
| 29 | CLA | A | 839 | X | - | - | - |
| 29 | CLA | A | 840 | X | - | - | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 29 | CLA | A | 850 | X | - | - | - |
| 29 | CLA | A | 851 | X | - | - | - |
| 29 | CLA | B | 801 | X | - | - | - |
| 29 | CLA | B | 802 | X | - | - | - |
| 29 | CLA | B | 803 | X | - | - | - |
| 29 | CLA | B | 804 | X | - | - | - |
| 29 | CLA | B | 805 | X | - | - | - |
| 29 | CLA | B | 806 | X | - | - | - |
| 29 | CLA | B | 807 | X | - | - | - |
| 29 | CLA | B | 808 | X | - | - | - |
| 29 | CLA | B | 809 | X | - | - | - |
| 29 | CLA | B | 810 | X | - | - | - |
| 29 | CLA | B | 811 | X | - | - | - |
| 29 | CLA | B | 812 | X | - | - | - |
| 29 | CLA | B | 813 | X | - | - | - |
| 29 | CLA | B | 814 | X | - | - | - |
| 29 | CLA | B | 815 | X | - | - | - |
| 29 | CLA | B | 816 | X | - | - | - |
| 29 | CLA | B | 817 | X | - | - | - |
| 29 | CLA | B | 818 | X | - | - | - |
| 29 | CLA | B | 819 | X | - | - | - |
| 29 | CLA | B | 820 | X | - | - | - |
| 29 | CLA | B | 821 | X | - | - | - |
| 29 | CLA | B | 822 | X | - | - | - |
| 29 | CLA | B | 823 | X | - | - | - |
| 29 | CLA | B | 824 | X | - | - | - |
| 29 | CLA | B | 825 | X | - | - | - |
| 29 | CLA | B | 826 | X | - | - | - |
| 29 | CLA | B | 827 | X | - | - | - |
| 29 | CLA | B | 828 | X | - | - | - |
| 29 | CLA | B | 829 | X | - | - | - |
| 29 | CLA | B | 830 | X | - | - | - |
| 29 | CLA | B | 831 | X | - | - | - |
| 29 | CLA | B | 832 | X | - | - | - |
| 29 | CLA | B | 833 | X | - | - | - |
| 29 | CLA | B | 834 | X | - | - | - |
| 29 | CLA | B | 835 | X | - | - | - |
| 29 | CLA | B | 836 | X | - | - | - |
| 29 | CLA | B | 837 | X | - | - | - |
| 29 | CLA | B | 838 | X | - | - | - |
| 29 | CLA | B | 839 | X | - | - | - |
| 29 | CLA | B | 840 | X | - | - | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 29 | CLA | B | 841 | X | - | - | - |
| 29 | CLA | B | 842 | X | - | - | - |
| 29 | CLA | F | 201 | X | - | - | - |
| 29 | CLA | F | 202 | X | - | - | - |
| 29 | CLA | F | 203 | X | - | - | - |
| 29 | CLA | J | 102 | X | - | - | - |
| 29 | CLA | K | 101 | X | - | - | - |
| 29 | CLA | K | 102 | X | - | - | - |
| 29 | CLA | L | 202 | X | - | - | - |
| 29 | CLA | L | 203 | X | - | - | - |
| 29 | CLA | L | 204 | X | - | - | - |
| 29 | CLA | L | 207 | X | - | - | - |
| 29 | CLA | O | 201 | X | - | - | - |
| 29 | CLA | O | 202 | X | - | - | - |
| 29 | CLA | O | 206 | X | - | - | - |
| 29 | CLA | Q | 302 | X | - | - | - |
| 29 | CLA | R | 203 | X | - | - | - |
| 29 | CLA | a | 302 | X | - | - | - |
| 29 | CLA | a | 303 | X | - | - | - |
| 29 | CLA | a | 304 | X | - | - | - |
| 29 | CLA | a | 305 | X | - | - | - |
| 29 | CLA | a | 306 | X | - | - | - |
| 29 | CLA | a | 307 | X | - | - | - |
| 29 | CLA | a | 308 | X | - | - | - |
| 29 | CLA | a | 309 | X | - | - | - |
| 29 | CLA | a | 310 | X | - | - | - |
| 29 | CLA | a | 311 | X | - | - | - |
| 29 | CLA | a | 312 | X | - | - | - |
| 29 | CLA | b | 302 | X | - | - | - |
| 29 | CLA | b | 303 | X | - | - | - |
| 29 | CLA | b | 304 | X | - | - | - |
| 29 | CLA | b | 305 | X | - | - | - |
| 29 | CLA | b | 306 | X | - | - | - |
| 29 | CLA | b | 307 | X | - | - | - |
| 29 | CLA | b | 308 | X | - | - | - |
| 29 | CLA | b | 309 | X | - | - | - |
| 29 | CLA | b | 310 | X | - | - | - |
| 29 | CLA | b | 311 | X | - | - | - |
| 29 | CLA | b | 312 | X | - | - | - |
| 29 | CLA | b | 313 | X | - | - | - |
| 29 | CLA | c | 301 | X | - | - | - |
| 29 | CLA | c | 302 | X | - | - | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 29 | CLA | c | 303 | X | - | - | - |
| 29 | CLA | c | 304 | X | - | - | - |
| 29 | CLA | c | 305 | X | - | - | - |
| 29 | CLA | c | 306 | X | - | - | - |
| 29 | CLA | c | 307 | X | - | - | - |
| 29 | CLA | c | 308 | X | - | - | - |
| 29 | CLA | c | 309 | X | - | - | - |
| 29 | CLA | c | 312 | X | - | - | - |
| 29 | CLA | d | 302 | X | - | - | - |
| 29 | CLA | d | 303 | X | - | - | - |
| 29 | CLA | d | 304 | X | - | - | - |
| 29 | CLA | d | 305 | X | - | - | - |
| 29 | CLA | d | 306 | X | - | - | - |
| 29 | CLA | d | 307 | X | - | - | - |
| 29 | CLA | d | 308 | X | - | - | - |
| 29 | CLA | d | 309 | X | - | - | - |
| 29 | CLA | d | 310 | X | - | - | - |
| 29 | CLA | d | 313 | X | - | - | - |
| 29 | CLA | d | 318 | X | - | - | - |
| 29 | CLA | e | 301 | X | - | - | - |
| 29 | CLA | e | 302 | X | - | - | - |
| 29 | CLA | e | 303 | X | - | - | - |
| 29 | CLA | e | 304 | X | - | - | - |
| 29 | CLA | e | 305 | X | - | - | - |
| 29 | CLA | e | 306 | X | - | - | - |
| 29 | CLA | e | 307 | X | - | - | - |
| 29 | CLA | e | 308 | X | - | - | - |
| 29 | CLA | e | 310 | X | - | - | - |
| 29 | CLA | e | 311 | X | - | - | - |
| 29 | CLA | f | 601 | X | - | - | - |
| 29 | CLA | f | 602 | X | - | - | - |
| 29 | CLA | f | 603 | X | - | - | - |
| 29 | CLA | f | 604 | X | - | - | - |
| 29 | CLA | f | 605 | X | - | - | - |
| 29 | CLA | f | 606 | X | - | - | - |
| 29 | CLA | f | 607 | X | - | - | - |
| 29 | CLA | f | 608 | X | - | - | - |
| 29 | CLA | f | 609 | X | - | - | - |
| 29 | CLA | f | 610 | X | - | - | - |
| 29 | CLA | f | 612 | X | - | - | - |
| 29 | CLA | f | 613 | X | - | - | - |
| 29 | CLA | g | 302 | X | - | - | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 29 | CLA | g | 303 | X | - | - | - |
| 29 | CLA | g | 304 | X | - | - | - |
| 29 | CLA | g | 305 | X | - | - | - |
| 29 | CLA | g | 306 | X | - | - | - |
| 29 | CLA | g | 307 | X | - | - | - |
| 29 | CLA | g | 308 | X | - | - | - |
| 29 | CLA | g | 309 | X | - | - | - |
| 29 | CLA | g | 310 | X | - | - | - |
| 29 | CLA | g | 311 | X | - | - | - |
| 29 | CLA | g | 312 | X | - | - | - |
| 29 | CLA | g | 316 | X | - | - | - |
| 29 | CLA | g | 323 | X | - | - | - |
| 29 | CLA | h | 301 | X | - | - | - |
| 29 | CLA | h | 302 | X | - | - | - |
| 29 | CLA | h | 303 | X | - | - | - |
| 29 | CLA | h | 304 | X | - | - | - |
| 29 | CLA | h | 305 | X | - | - | - |
| 29 | CLA | h | 306 | X | - | - | - |
| 29 | CLA | h | 307 | X | - | - | - |
| 29 | CLA | h | 312 | X | - | - | - |
| 29 | CLA | i | 302 | X | - | - | - |
| 29 | CLA | i | 303 | X | - | - | - |
| 29 | CLA | i | 304 | X | - | - | - |
| 29 | CLA | i | 306 | X | - | - | - |
| 29 | CLA | i | 307 | X | - | - | - |
| 29 | CLA | i | 308 | X | - | - | - |
| 29 | CLA | i | 309 | X | - | - | - |
| 29 | CLA | i | 311 | X | - | - | - |
| 29 | CLA | i | 312 | X | - | - | - |
| 29 | CLA | j | 302 | X | - | - | - |
| 29 | CLA | j | 303 | X | - | - | - |
| 29 | CLA | j | 304 | X | - | - | - |
| 29 | CLA | j | 305 | X | - | - | - |
| 29 | CLA | j | 306 | X | - | - | - |
| 29 | CLA | j | 307 | X | - | - | - |
| 29 | CLA | j | 308 | X | - | - | - |
| 29 | CLA | j | 309 | X | - | - | - |
| 29 | CLA | j | 310 | X | - | - | - |
| 29 | CLA | j | 311 | X | - | - | - |
| 29 | CLA | j | 313 | X | - | - | - |
| 29 | CLA | j | 314 | X | - | - | - |
| 29 | CLA | k | 601 | X | - | - | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 29 | CLA | k | 602 | X | - | - | - |
| 29 | CLA | k | 603 | X | - | - | - |
| 29 | CLA | k | 604 | X | - | - | - |
| 29 | CLA | k | 605 | X | - | - | - |
| 29 | CLA | k | 606 | X | - | - | - |
| 29 | CLA | k | 607 | X | - | - | - |
| 29 | CLA | k | 608 | X | - | - | - |
| 29 | CLA | k | 609 | X | - | - | - |
| 29 | CLA | k | 610 | X | - | - | - |
| 29 | CLA | k | 614 | X | - | - | - |
| 29 | CLA | l | 301 | X | - | - | - |
| 29 | CLA | l | 303 | X | - | - | - |
| 29 | CLA | l | 304 | X | - | - | - |
| 29 | CLA | l | 305 | X | - | - | - |
| 29 | CLA | l | 306 | X | - | - | - |
| 29 | CLA | l | 307 | X | - | - | - |
| 29 | CLA | l | 308 | X | - | - | - |
| 29 | CLA | l | 309 | X | - | - | - |
| 29 | CLA | l | 310 | X | - | - | - |
| 29 | CLA | l | 312 | X | - | - | - |
| 29 | CLA | m | 601 | X | - | - | - |
| 29 | CLA | m | 602 | X | - | - | - |
| 29 | CLA | m | 603 | X | - | - | - |
| 29 | CLA | m | 604 | X | - | - | - |
| 29 | CLA | m | 605 | X | - | - | - |
| 29 | CLA | m | 606 | X | - | - | - |
| 29 | CLA | m | 607 | X | - | - | - |
| 29 | CLA | m | 608 | X | - | - | - |
| 29 | CLA | m | 609 | X | - | - | - |
| 29 | CLA | m | 610 | X | - | - | - |
| 29 | CLA | m | 612 | X | - | - | - |
| 29 | CLA | m | 613 | X | - | - | - |
| 29 | CLA | n | 601 | X | - | - | - |
| 29 | CLA | n | 602 | X | - | - | - |
| 29 | CLA | n | 603 | X | - | - | - |
| 29 | CLA | n | 604 | X | - | - | - |
| 29 | CLA | n | 605 | X | - | - | - |
| 29 | CLA | n | 606 | X | - | - | - |
| 29 | CLA | n | 607 | X | - | - | - |
| 29 | CLA | n | 608 | X | - | - | - |
| 29 | CLA | n | 609 | X | - | - | - |
| 29 | CLA | n | 610 | X | - | - | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|---|---|---|---|---|---|---|---|
| 29 | CLA | n | 613 | X | - | - | - |
| 29 | CLA | s | 402 | X | - | - | - |
| 29 | CLA | s | 403 | X | - | - | - |
| 29 | CLA | s | 406 | X | - | - | - |
| 32 | WVN | A | 844 | - | X | - | - |
| 32 | WVN | A | 845 | - | X | - | - |
| 32 | WVN | A | 846 | - | X | - | - |
| 32 | WVN | A | 847 | - | X | - | - |
| 32 | WVN | A | 854 | - | X | - | - |
| 32 | WVN | B | 847 | - | X | - | - |
| 32 | WVN | B | 848 | - | X | - | - |
| 32 | WVN | B | 849 | - | X | - | - |
| 32 | WVN | F | 204 | - | X | - | - |
| 32 | WVN | F | 205 | - | X | - | - |
| 32 | WVN | F | 207 | - | X | - | - |
| 32 | WVN | I | 101 | - | X | - | - |
| 32 | WVN | J | 101 | - | X | - | - |
| 32 | WVN | K | 103 | - | X | - | - |
| 32 | WVN | L | 201 | - | X | - | - |
| 32 | WVN | L | 205 | - | X | - | - |
| 32 | WVN | L | 206 | - | X | - | - |
| 32 | WVN | M | 101 | - | X | - | - |
| 32 | WVN | R | 201 | - | X | - | - |
| 32 | WVN | R | 202 | - | X | - | - |
| 32 | WVN | e | 315 | - | X | - | - |
| 32 | WVN | h | 308 | - | X | - | - |
| 32 | WVN | i | 315 | - | X | - | - |
| 32 | WVN | l | 302 | - | X | - | - |
| 32 | WVN | l | 316 | - | X | - | - |
| 32 | WVN | s | 407 | - | X | - | - |
| 38 | II0 | h | 309 | - | X | - | - |

# 2 Entry composition

There are 41 unique types of molecules in this entry. The entry contains 61938 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 protein called Photosystem I P700 chlorophyll a apoprotein A1.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 1 | A | 742 | Total | C | N | O | S | 0 | 0 |
| | | | 5826 | 3805 | 994 | 999 | 28 | | |

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 2 | B | 732 | Total | C | N | O | S | 2 | 0 |
| | | | 5832 | 3849 | 982 | 987 | 14 | | |

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 3 | C | 80 | Total | C | N | O | S | 0 | 0 |
| | | | 592 | 361 | 103 | 116 | 12 | | |

- Molecule 4 is a protein called Photosystem I reaction center subunit II.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 4 | D | 138 | Total | C | N | O | S | 0 | 0 |
| | | | 1075 | 687 | 185 | 200 | 3 | | |

- Molecule 5 is a protein called Photosystem I reaction center subunit IV.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|
| 5 | E | 60 | Total | C | N | O | 0 | 0 |
| | | | 484 | 309 | 84 | 91 | | |

- Molecule 6 is a protein called Photosystem I reaction center subunit III.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 6 | F | 161 | Total | C | N | O | S | 0 | 0 |
| | | | 1257 | 818 | 213 | 224 | 2 | | |

- Molecule 7 is a protein called Photosystem I reaction center subunit VIII.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 7 | I | 33 | Total | C | N | O | S | 0 | 0 |
| | | | 255 | 177 | 34 | 42 | 2 | | |

- Molecule 8 is a protein called Photosystem I reaction center subunit IX.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 8 | J | 42 | Total | C | N | O | S | 0 | 0 |
| | | | 351 | 240 | 49 | 59 | 3 | | |

- Molecule 9 is a protein called Photosystem I reaction center subunit XI.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 9 | L | 151 | Total | C | N | O | S | 1 | 0 |
| | | | 1158 | 763 | 183 | 209 | 3 | | |

- Molecule 10 is a protein called Photosystem I reaction center subunit XII.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 10 | M | 30 | Total | C | N | O | S | 0 | 0 |
| | | | 232 | 155 | 38 | 38 | 1 | | |

- Molecule 11 is a protein called PsaO.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 11 | O | 95 | Total | C | N | O | S | 0 | 0 |
| | | | 714 | 480 | 107 | 124 | 3 | | |

- Molecule 12 is a protein called Photosystem I reaction center subunit PsaK.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 12 | K | 68 | Total | C | N | O | S | 0 | 0 |
| | | | 482 | 316 | 79 | 85 | 2 | | |

- Molecule 13 is a protein called ACPI-s.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 13 | s | 154 | Total | C | N | O | S | 0 | 0 |
| | | | 1146 | 725 | 195 | 219 | 7 | | |

- Molecule 14 is a protein called ACPI-c.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 14 | c | 170 | Total | C | N | O | S | 0 | 0 |
| | | | 1362 | 899 | 222 | 238 | 3 | | |

- Molecule 15 is a protein called ACPI-a.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 15 | a | 172 | Total | C | N | O | S | 0 | 0 |
| | | | 1331 | 865 | 213 | 242 | 11 | | |

- Molecule 16 is a protein called ACPI-b.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 16 | b | 178 | Total | C | N | O | S | 0 | 0 |
| | | | 1332 | 847 | 234 | 238 | 13 | | |

- Molecule 17 is a protein called ACPI-h.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 17 | h | 162 | Total | C | N | O | S | 0 | 0 |
| | | | 1201 | 779 | 202 | 214 | 6 | | |

- Molecule 18 is a protein called ACPI-m,f,j.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 18 | m | 174 | Total | C | N | O | S | 0 | 0 |
| | | | 1313 | 850 | 217 | 238 | 8 | | |
| 18 | f | 174 | Total | C | N | O | S | 0 | 0 |
| | | | 1306 | 846 | 215 | 237 | 8 | | |
| 18 | j | 173 | Total | C | N | O | S | 0 | 0 |
| | | | 1302 | 841 | 216 | 237 | 8 | | |

- Molecule 19 is a protein called ACPI-e.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 19 | e | 166 | Total | C | N | O | S | 0 | 0 |
| | | | 1268 | 822 | 209 | 228 | 9 | | |

- Molecule 20 is a protein called ACPI-l.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 20 | l | 175 | Total | C | N | O | S | 0 | 0 |
| | | | 1333 | 859 | 227 | 239 | 8 | | |

- Molecule 21 is a protein called ACPI-k.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 21 | k | 189 | Total | C | N | O | S | 0 | 0 |
| | | | 1412 | 916 | 241 | 246 | 9 | | |

- Molecule 22 is a protein called ACPI-i.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 22 | i | 180 | Total | C | N | O | S | 0 | 0 |
| | | | 1363 | 874 | 231 | 247 | 11 | | |

- Molecule 23 is a protein called ACPI-d.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 23 | d | 166 | Total | C | N | O | S | 0 | 0 |
| | | | 1231 | 788 | 210 | 220 | 13 | | |

- Molecule 24 is a protein called ACPI-g.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 24 | g | 216 | Total | C | N | O | S | 0 | 0 |
| | | | 1608 | 1047 | 265 | 285 | 11 | | |

- Molecule 25 is a protein called PsaR.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 25 | R | 90 | Total | C | N | O | S | 0 | 0 |
| | | | 666 | 434 | 105 | 125 | 2 | | |

- Molecule 26 is a protein called ACPI-n.

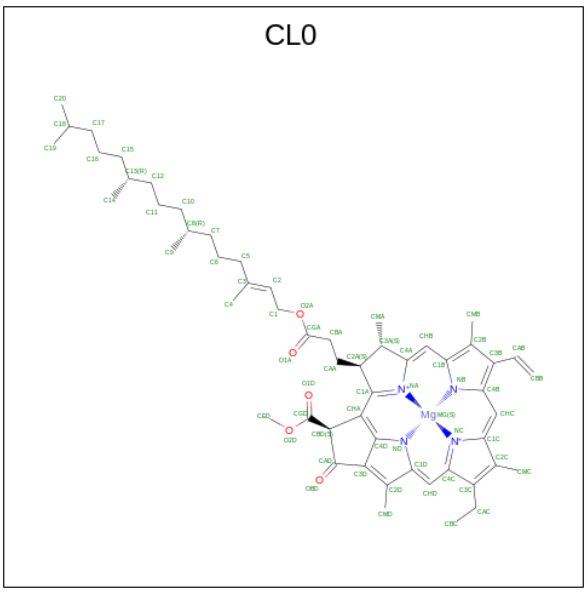
| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 26 | n | 181 | Total | C | N | O | S | 0 | 0 |
| | | | 1343 | 862 | 226 | 245 | 10 | | |

- Molecule 27 is a protein called PsaQ.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 27 | Q | 143 | Total | C | N | O | S | 0 | 0 |
| | | | 1041 | 654 | 179 | 203 | 5 | | |

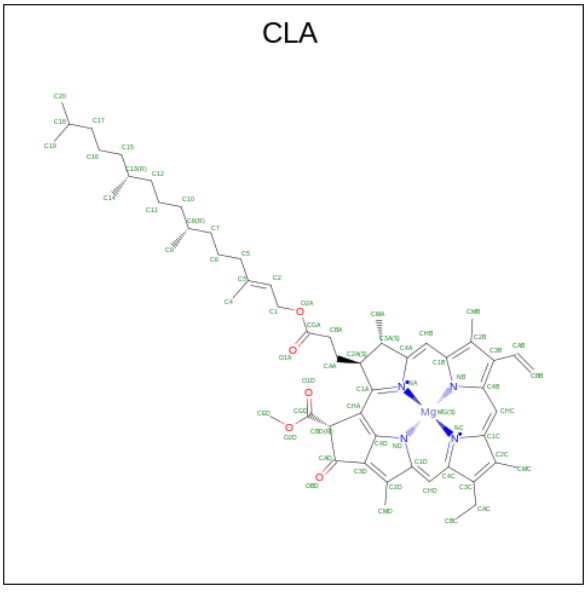
- Molecule 28 is CHLOROPHYLL A ISOMER (CCD ID: CL0) (formula: $C_{55}H_{72}MgN_4O_5$)

(labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 28 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

- Molecule 29 is CHLOROPHYLL A (CCD ID: CLA) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 62 | 52 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | A | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 53 | 43 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 64 | 54 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 57 | 47 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | B | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | F | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | F | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | F | 1 | Total | C | Mg | N | O | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | |
| 29 | J | 1 | Total | C | Mg | N | O | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | |
| 29 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | |
| 29 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | O | 1 | Total | C | Mg | N | O | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | |
| 29 | O | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | O | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | K | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | K | 1 | Total | C | Mg | N | O | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | |
| 29 | s | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | s | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | s | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 62 | 52 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | c | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 48 | 38 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | a | 1 | Total | C | Mg | N | O | 0 |
| | | | 48 | 38 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 61 | 51 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 64 | 54 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | b | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 57 | 47 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | h | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 59 | 49 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | m | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | e | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 57 | 47 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 61 | 51 | 1 | 4 | 5 | |
| 29 | l | 1 | Total | C | Mg | N | O | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 57 | 47 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | k | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | f | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 61 | 51 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | i | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 61 | 51 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | j | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 62 | 52 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | d | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

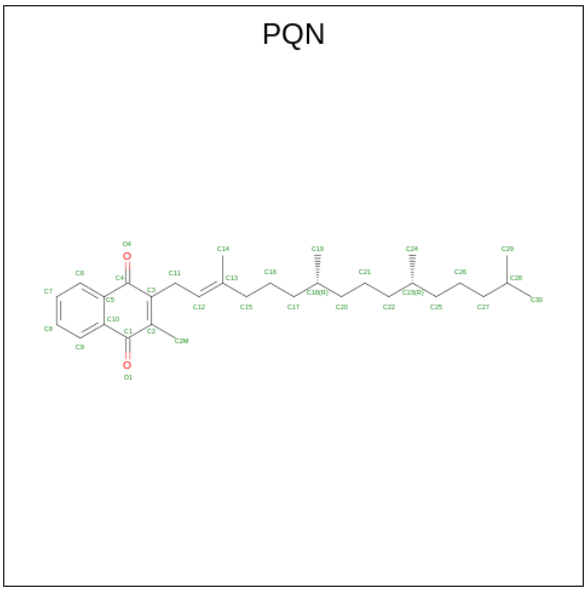
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 57 | 47 | 1 | 4 | 5 | |
| 29 | g | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | R | 1 | Total | C | Mg | N | O | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | |

*Continued on next page...*

*Continued from previous page...*

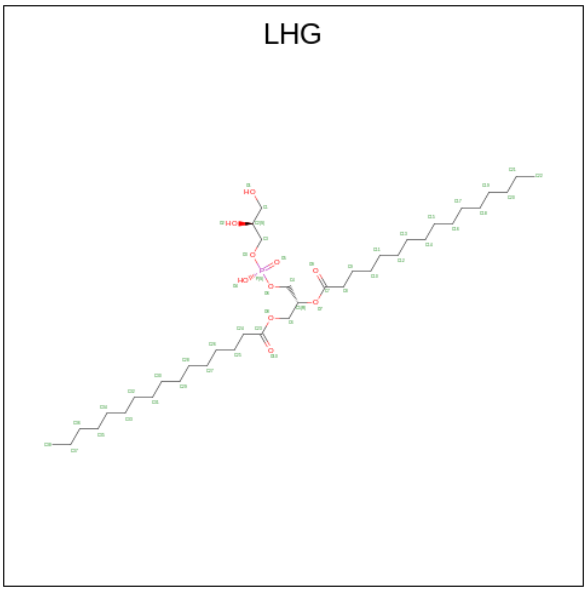
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 29 | n | 1 | Total | C | Mg | N | O | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | |
| 29 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

- Molecule 30 is PHYLLOQUINONE (CCD ID: PQN) (formula: $C_{31}H_{46}O_2$) (labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | | | AltConf |
|---|---|---|---|---|---|---|
| 30 | A | 1 | Total | C | O | 0 |
| | | | 33 | 31 | 2 | |
| 30 | B | 1 | Total | C | O | 0 |
| | | | 33 | 31 | 2 | |

- Molecule 31 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$) (labeled as "Ligand of Interest" by depositor).



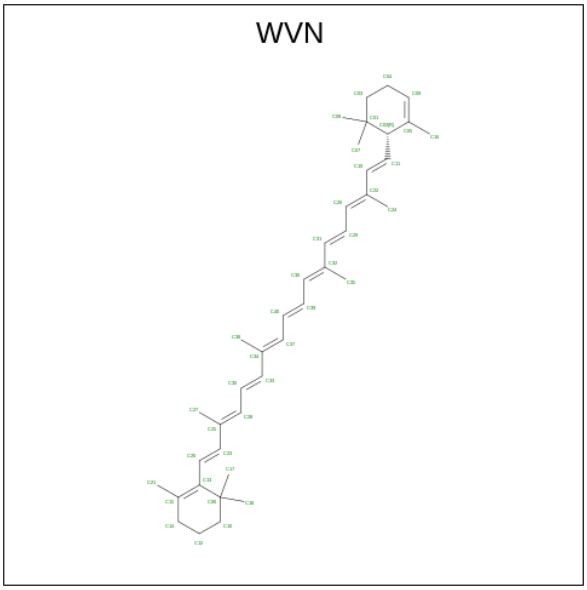

| Mol | Chain | Residues | Atoms | | | | AltConf |
|---|---|---|---|---|---|---|---|
| 31 | A | 1 | Total | C | O | P | 0 |
| | | | 48 | 37 | 10 | 1 | |
| 31 | A | 1 | Total | C | O | P | 0 |
| | | | 27 | 16 | 10 | 1 | |
| 31 | A | 1 | Total | C | O | P | 0 |
| | | | 27 | 20 | 6 | 1 | |
| 31 | J | 1 | Total | C | O | P | 0 |
| | | | 33 | 22 | 10 | 1 | |
| 31 | L | 1 | Total | C | O | P | 0 |
| | | | 47 | 36 | 10 | 1 | |
| 31 | L | 1 | Total | C | O | P | 0 |
| | | | 36 | 25 | 10 | 1 | |
| 31 | s | 1 | Total | C | O | P | 0 |
| | | | 33 | 24 | 8 | 1 | |
| 31 | c | 1 | Total | C | O | P | 0 |
| | | | 37 | 26 | 10 | 1 | |
| 31 | c | 1 | Total | C | O | P | 0 |
| | | | 49 | 38 | 10 | 1 | |
| 31 | a | 1 | Total | C | O | P | 0 |
| | | | 49 | 38 | 10 | 1 | |
| 31 | a | 1 | Total | C | O | P | 0 |
| | | | 49 | 38 | 10 | 1 | |
| 31 | b | 1 | Total | C | O | P | 0 |
| | | | 49 | 38 | 10 | 1 | |
| 31 | m | 1 | Total | C | O | P | 0 |
| | | | 37 | 26 | 10 | 1 | |
| 31 | e | 1 | Total | C | O | P | 0 |
| | | | 37 | 26 | 10 | 1 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | AltConf |
|---|---|---|---|---|---|---|---|
| 31 | l | 1 | Total | C | O | P | 0 |
| | | | 32 | 21 | 10 | 1 | |
| 31 | f | 1 | Total | C | O | P | 0 |
| | | | 49 | 38 | 10 | 1 | |
| 31 | f | 1 | Total | C | O | P | 0 |
| | | | 37 | 26 | 10 | 1 | |
| 31 | i | 1 | Total | C | O | P | 0 |
| | | | 37 | 26 | 10 | 1 | |
| 31 | j | 1 | Total | C | O | P | 0 |
| | | | 30 | 19 | 10 | 1 | |
| 31 | g | 1 | Total | C | O | P | 0 |
| | | | 45 | 34 | 10 | 1 | |
| 31 | g | 1 | Total | C | O | P | 0 |
| | | | 37 | 26 | 10 | 1 | |
| 31 | n | 1 | Total | C | O | P | 0 |
| | | | 43 | 32 | 10 | 1 | |

- Molecule 32 is 1,3,3-trimethyl-2-[(1E,3E,5E,7E,9E,11E,13E,15E,17E)-3,7,12,16-tetramethyl-18-[(1R)-2,6,6-trimethylcyclohex-2-en-1-yl]octadeca-1,3,5,7,9,11,13,15,17-nonaenyl]cyclohexene (CCD ID: WVN) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | | AltConf |
|---|---|---|---|---|---|
| 32 | A | 1 | Total | C | 0 |
| | | | 40 | 40 | |
| 32 | A | 1 | Total | C | 0 |
| | | | 40 | 40 | |

*Continued on next page...*

*Continued from previous page...*

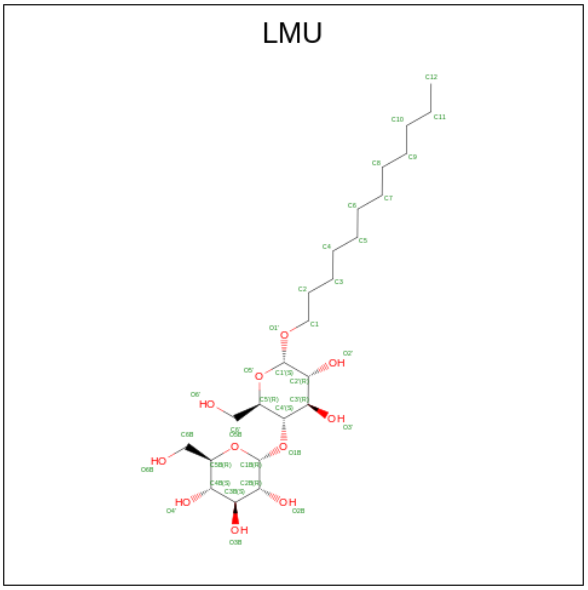
| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 32 | A | 1 | Total C<br>40 40 | 0 |
| 32 | A | 1 | Total C<br>40 40 | 0 |
| 32 | A | 1 | Total C<br>40 40 | 0 |
| 32 | B | 1 | Total C<br>40 40 | 0 |
| 32 | B | 1 | Total C<br>40 40 | 0 |
| 32 | B | 1 | Total C<br>40 40 | 0 |
| 32 | B | 1 | Total C<br>40 40 | 0 |
| 32 | B | 1 | Total C<br>40 40 | 0 |
| 32 | F | 1 | Total C<br>40 40 | 0 |
| 32 | F | 1 | Total C<br>40 40 | 0 |
| 32 | F | 1 | Total C<br>40 40 | 0 |
| 32 | I | 1 | Total C<br>40 40 | 0 |
| 32 | J | 1 | Total C<br>40 40 | 0 |
| 32 | L | 1 | Total C<br>40 40 | 0 |
| 32 | L | 1 | Total C<br>40 40 | 0 |
| 32 | L | 1 | Total C<br>40 40 | 0 |
| 32 | M | 1 | Total C<br>40 40 | 0 |
| 32 | K | 1 | Total C<br>40 40 | 0 |
| 32 | s | 1 | Total C<br>40 40 | 0 |
| 32 | s | 1 | Total C<br>40 40 | 0 |
| 32 | h | 1 | Total C<br>40 40 | 0 |

*Continued on next page...*

*Continued from previous page...*

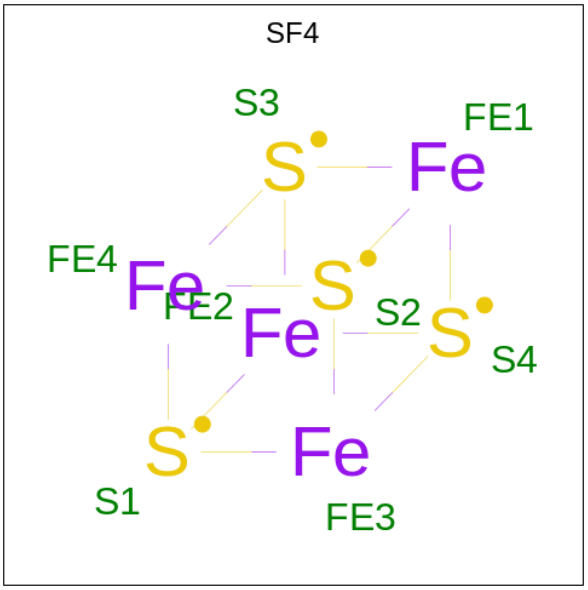
| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 32 | e | 1 | Total C<br>40 40 | 0 |
| 32 | l | 1 | Total C<br>40 40 | 0 |
| 32 | l | 1 | Total C<br>40 40 | 0 |
| 32 | i | 1 | Total C<br>40 40 | 0 |
| 32 | R | 1 | Total C<br>40 40 | 0 |
| 32 | R | 1 | Total C<br>40 40 | 0 |

- Molecule 33 is DODECYL-ALPHA-D-MALTOSIDE (CCD ID: LMU) (formula: $C_{24}H_{46}O_{11}$) (labeled as "Ligand of Interest" by depositor).



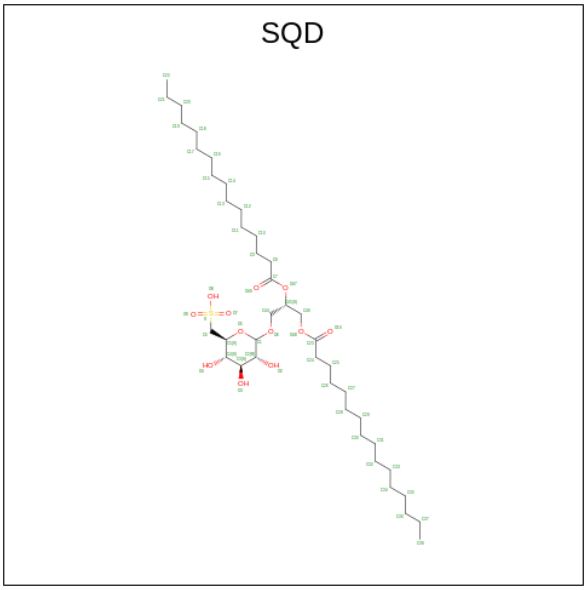

| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 33 | A | 1 | Total C O<br>35 24 11 | 0 |
| 33 | A | 1 | Total C O<br>34 23 11 | 0 |
| 33 | B | 1 | Total C O<br>35 24 11 | 0 |
| 33 | a | 1 | Total C O<br>35 24 11 | 0 |
| 33 | i | 1 | Total C O<br>35 24 11 | 0 |

- Molecule 34 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: $Fe_4S_4$).



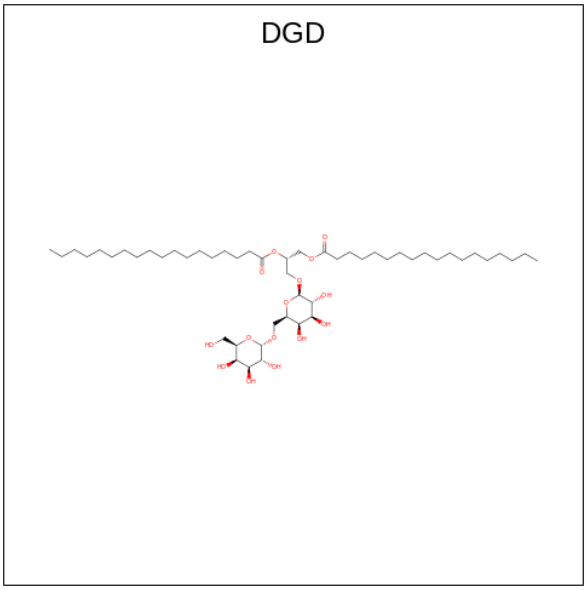

| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 34 | A | 1 | Total Fe S<br>8 4 4 | 0 |
| 34 | C | 1 | Total Fe S<br>8 4 4 | 0 |
| 34 | C | 1 | Total Fe S<br>8 4 4 | 0 |

- Molecule 35 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: $C_{41}H_{78}O_{12}S$) (labeled as "Ligand of Interest" by depositor).



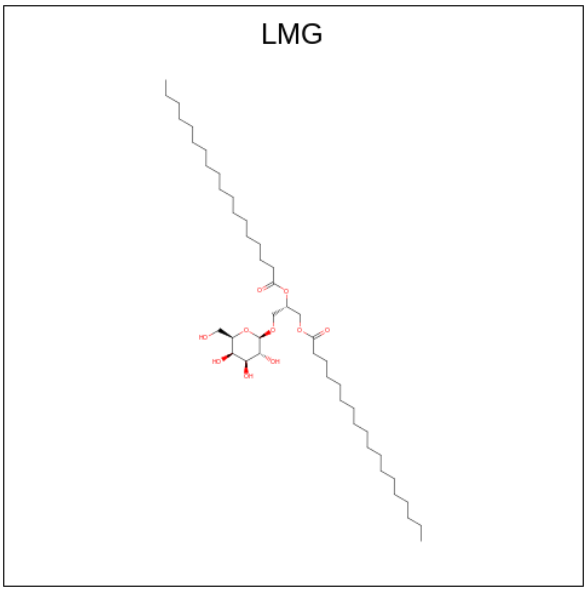
| Mol | Chain | Residues | Atoms | | | | AltConf |
|---|---|---|---|---|---|---|---|
| 35 | A | 1 | Total | C | O | S | 0 |
| | | | 54 | 41 | 12 | 1 | |

- Molecule 36 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$) (labeled as "Ligand of Interest" by depositor).



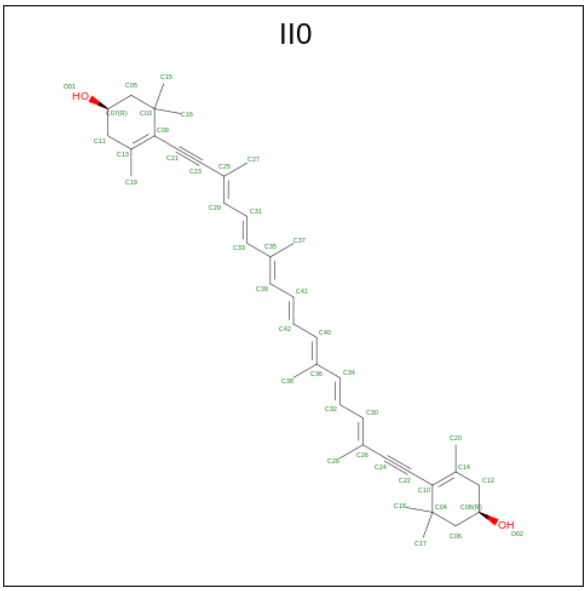

| Mol | Chain | Residues | Atoms | | | AltConf |
|---|---|---|---|---|---|---|
| 36 | B | 1 | Total | C | O | 0 |
| | | | 66 | 51 | 15 | |
| 36 | j | 1 | Total | C | O | 0 |
| | | | 62 | 47 | 15 | |

- Molecule 37 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$) (labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 37 | F | 1 | Total C O<br>53 43 10 | 0 |
| 37 | F | 1 | Total C O<br>41 31 10 | 0 |
| 37 | L | 1 | Total C O<br>45 35 10 | 0 |
| 37 | O | 1 | Total C O<br>26 16 10 | 0 |
| 37 | c | 1 | Total C O<br>55 45 10 | 0 |
| 37 | c | 1 | Total C O<br>43 33 10 | 0 |
| 37 | b | 1 | Total C O<br>42 32 10 | 0 |
| 37 | n | 1 | Total C O<br>51 41 10 | 0 |
| 37 | Q | 1 | Total C O<br>38 28 10 | 0 |

- Molecule 38 is (1 {R})-3,5,5-trimethyl-4-[(3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {E})-3,7,12,16-tetramethyl-18-[(4 {R})-2,6,6-trimethyl-4-oxidanyl-cyclohexen-1-yl]octadeca-3,5,7,9,11,13,15-heptaen-1,17-diynyl]cyclohex-3-en-1-ol (CCD ID: II0) (formula: $C_{40}H_{52}O_2$) (labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | | | AltConf |
|---|---|---|---|---|---|---|
| 38 | J | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | O | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | c | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | c | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | a | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | a | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | a | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | a | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | b | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | b | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | b | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | b | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |
| 38 | h | 1 | Total | C | O | 0 |
| | | | 28 | 27 | 1 | |
| 38 | h | 1 | Total | C | O | 0 |
| | | | 42 | 40 | 2 | |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 38 | h | 1 | Total C O<br>42 40 2 | 0 |
| 38 | m | 1 | Total C O<br>42 40 2 | 0 |
| 38 | m | 1 | Total C O<br>42 40 2 | 0 |
| 38 | m | 1 | Total C O<br>42 40 2 | 0 |
| 38 | m | 1 | Total C O<br>42 40 2 | 0 |
| 38 | e | 1 | Total C O<br>42 40 2 | 0 |
| 38 | e | 1 | Total C O<br>42 40 2 | 0 |
| 38 | e | 1 | Total C O<br>42 40 2 | 0 |
| 38 | e | 1 | Total C O<br>42 40 2 | 0 |
| 38 | l | 1 | Total C O<br>42 40 2 | 0 |
| 38 | l | 1 | Total C O<br>42 40 2 | 0 |
| 38 | l | 1 | Total C O<br>42 40 2 | 0 |
| 38 | l | 1 | Total C O<br>42 40 2 | 0 |
| 38 | k | 1 | Total C O<br>42 40 2 | 0 |
| 38 | k | 1 | Total C O<br>42 40 2 | 0 |
| 38 | k | 1 | Total C O<br>42 40 2 | 0 |
| 38 | k | 1 | Total C O<br>42 40 2 | 0 |
| 38 | k | 1 | Total C O<br>42 40 2 | 0 |
| 38 | k | 1 | Total C O<br>42 40 2 | 0 |
| 38 | f | 1 | Total C O<br>42 40 2 | 0 |
| 38 | f | 1 | Total C O<br>42 40 2 | 0 |

*Continued on next page...*

*Continued from previous page...*

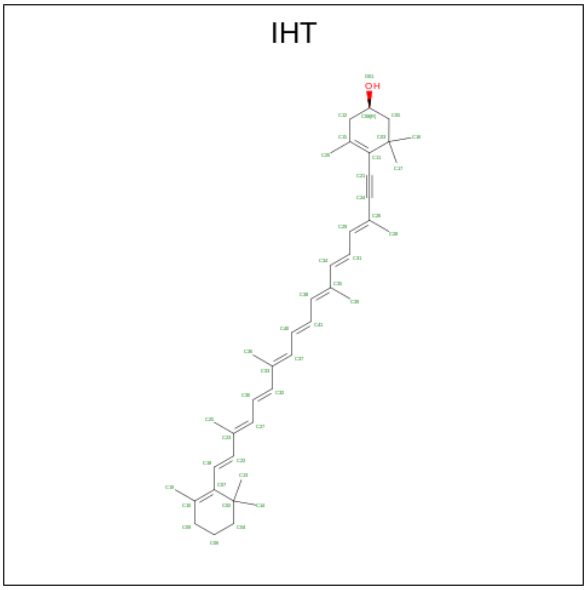
| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 38 | f | 1 | Total C O<br>42 40 2 | 0 |
| 38 | f | 1 | Total C O<br>42 40 2 | 0 |
| 38 | i | 1 | Total C O<br>42 40 2 | 0 |
| 38 | i | 1 | Total C O<br>42 40 2 | 0 |
| 38 | i | 1 | Total C O<br>42 40 2 | 0 |
| 38 | i | 1 | Total C O<br>42 40 2 | 0 |
| 38 | j | 1 | Total C O<br>42 40 2 | 0 |
| 38 | j | 1 | Total C O<br>42 40 2 | 0 |
| 38 | j | 1 | Total C O<br>42 40 2 | 0 |
| 38 | d | 1 | Total C O<br>42 40 2 | 0 |
| 38 | d | 1 | Total C O<br>42 40 2 | 0 |
| 38 | d | 1 | Total C O<br>42 40 2 | 0 |
| 38 | d | 1 | Total C O<br>42 40 2 | 0 |
| 38 | d | 1 | Total C O<br>42 40 2 | 0 |
| 38 | d | 1 | Total C O<br>42 40 2 | 0 |
| 38 | g | 1 | Total C O<br>42 40 2 | 0 |
| 38 | g | 1 | Total C O<br>42 40 2 | 0 |
| 38 | g | 1 | Total C O<br>42 40 2 | 0 |
| 38 | g | 1 | Total C O<br>42 40 2 | 0 |
| 38 | n | 1 | Total C O<br>42 40 2 | 0 |
| 38 | n | 1 | Total C O<br>42 40 2 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 38 | n | 1 | Total C O<br>42 40 2 | 0 |
| 38 | n | 1 | Total C O<br>42 40 2 | 0 |

- Molecule 39 is (1 {R})-3,5,5-trimethyl-4-[(3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {E},17 {E})-3,7,12,16-tetramethyl-18-(2,6,6-trimethylcyclohexen-1-yl)octadeca-3,5,7,9,11,13,15,17-octaen-1-ynyl]cyclohex-3-en-1-ol (CCD ID: IHT) (formula: $C_{40}H_{54}O$) (labeled as "Ligand of Interest" by depositor).



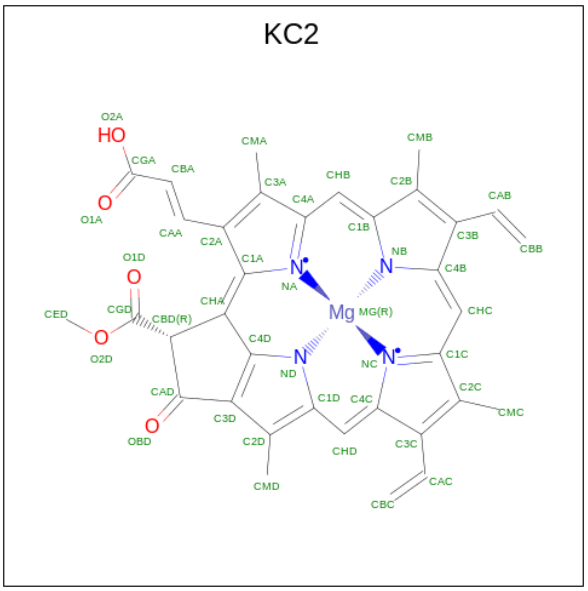

| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 39 | O | 1 | Total C O<br>41 40 1 | 0 |
| 39 | c | 1 | Total C O<br>41 40 1 | 0 |
| 39 | c | 1 | Total C O<br>41 40 1 | 0 |
| 39 | a | 1 | Total C O<br>41 40 1 | 0 |
| 39 | b | 1 | Total C O<br>41 40 1 | 0 |
| 39 | m | 1 | Total C O<br>41 40 1 | 0 |
| 39 | f | 1 | Total C O<br>41 40 1 | 0 |
| 39 | j | 1 | Total C O<br>41 40 1 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 39 | g | 1 | Total C O<br>41 40 1 | 0 |
| 39 | g | 1 | Total C O<br>41 40 1 | 0 |
| 39 | R | 1 | Total C O<br>41 40 1 | 0 |
| 39 | n | 1 | Total C O<br>41 40 1 | 0 |

- Molecule 40 is Chlorophyll c2 (CCD ID: KC2) (formula: $C_{35}H_{28}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).




| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 40 | s | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |
| 40 | s | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |
| 40 | c | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |
| 40 | m | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |
| 40 | e | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |
| 40 | l | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |
| 40 | k | 1 | Total C Mg N O<br>45 35 1 4 5 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Residues | Atoms | | | | | AltConf |
|---|---|---|---|---|---|---|---|---|
| 40 | k | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | k | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | f | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | i | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | i | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | j | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | d | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | d | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | g | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | g | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | g | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | n | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |
| 40 | n | 1 | Total<br>45 | C<br>35 | Mg<br>1 | N<br>4 | O<br>5 | 0 |

- Molecule 41 is water.

| Mol | Chain | Residues | Atoms | | AltConf |
|---|---|---|---|---|---|
| 41 | A | 126 | Total<br>126 | O<br>126 | 0 |
| 41 | B | 150 | Total<br>150 | O<br>150 | 0 |
| 41 | C | 22 | Total<br>22 | O<br>22 | 0 |
| 41 | D | 15 | Total<br>15 | O<br>15 | 0 |
| 41 | E | 6 | Total<br>6 | O<br>6 | 0 |
| 41 | F | 14 | Total<br>14 | O<br>14 | 0 |

*Continued on next page...*

*Continued from previous page...*

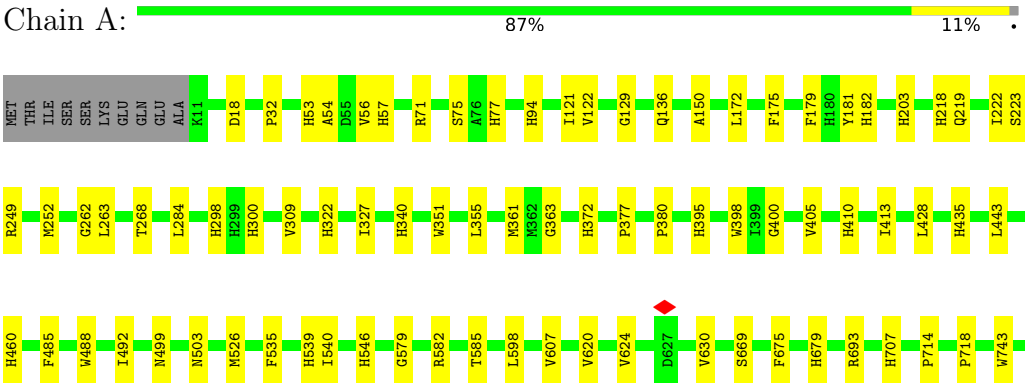
| Mol | Chain | Residues | Atoms | AltConf |
|---|---|---|---|---|
| 41 | J | 2 | Total O<br>2 2 | 0 |
| 41 | L | 15 | Total O<br>15 15 | 0 |
| 41 | M | 2 | Total O<br>2 2 | 0 |
| 41 | O | 5 | Total O<br>5 5 | 0 |
| 41 | K | 2 | Total O<br>2 2 | 0 |
| 41 | s | 7 | Total O<br>7 7 | 0 |
| 41 | c | 2 | Total O<br>2 2 | 0 |
| 41 | a | 16 | Total O<br>16 16 | 0 |
| 41 | b | 21 | Total O<br>21 21 | 0 |
| 41 | h | 9 | Total O<br>9 9 | 0 |
| 41 | m | 1 | Total O<br>1 1 | 0 |
| 41 | e | 3 | Total O<br>3 3 | 0 |
| 41 | f | 1 | Total O<br>1 1 | 0 |
| 41 | g | 1 | Total O<br>1 1 | 0 |
| 41 | R | 1 | Total O<br>1 1 | 0 |
| 41 | n | 1 | Total O<br>1 1 | 0 |

# 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.

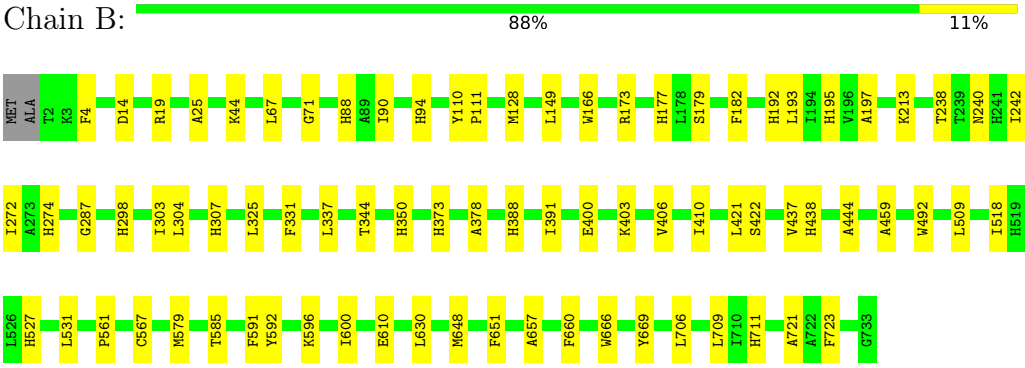
• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

Chain A:



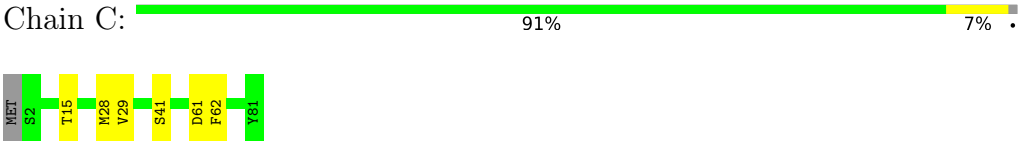

• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

Chain B:



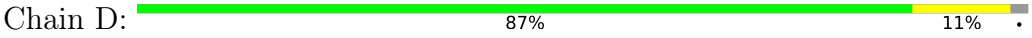

• Molecule 3: Photosystem I iron-sulfur center

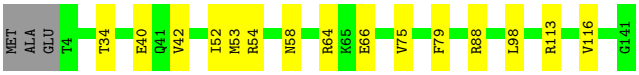
Chain C:




• Molecule 4: Photosystem I reaction center subunit II

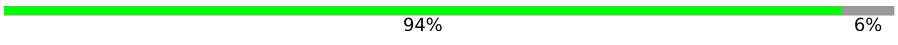
Chain D:

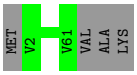





• Molecule 5: Photosystem I reaction center subunit IV

Chain E:

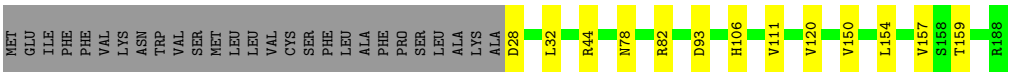



• Molecule 6: Photosystem I reaction center subunit III

Chain F:

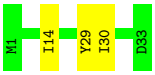



• Molecule 7: Photosystem I reaction center subunit VIII

Chain I:

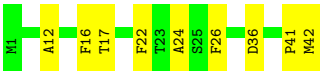



• Molecule 8: Photosystem I reaction center subunit IX

Chain J:




• Molecule 9: Photosystem I reaction center subunit XI

Chain L:



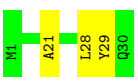




• Molecule 10: Photosystem I reaction center subunit XII

Chain M:

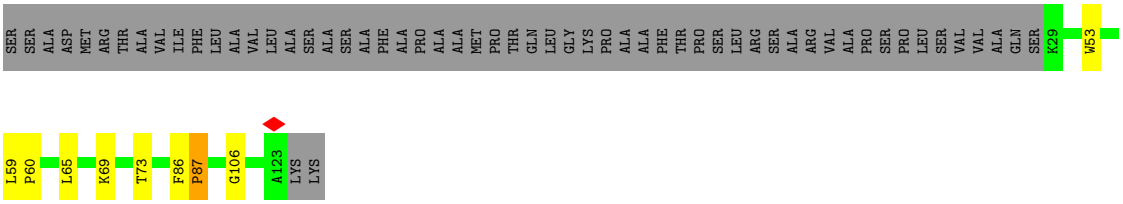



• Molecule 11: PsaO

Chain O:





• Molecule 12: Photosystem I reaction center subunit PsaK

Chain K:

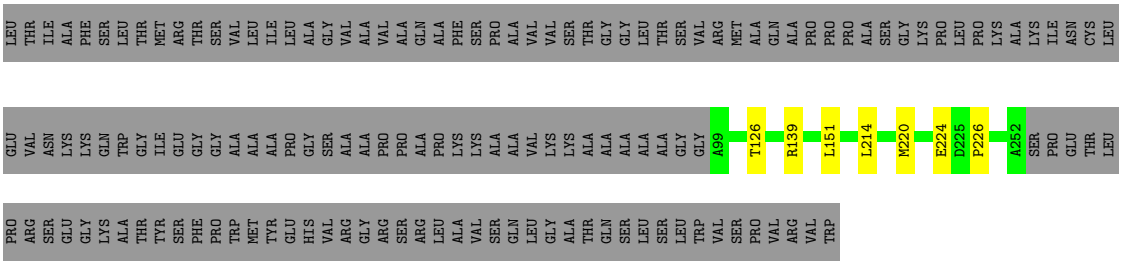





• Molecule 13: ACPI-s

Chain s:

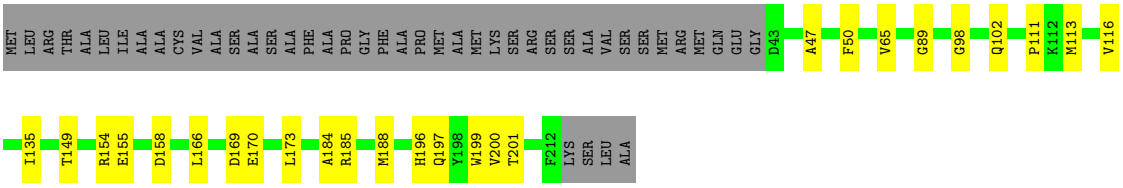


• Molecule 14: ACPI-c

Chain c:

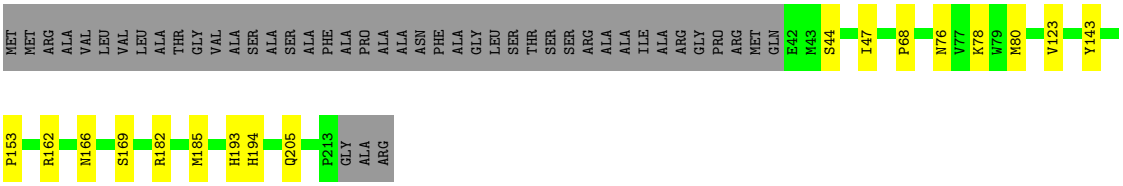


• Molecule 15: ACPI-a

Chain a:

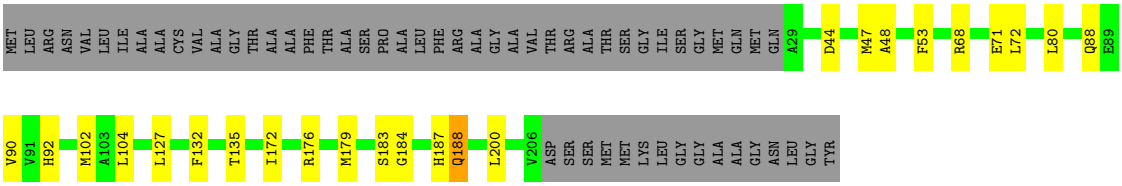


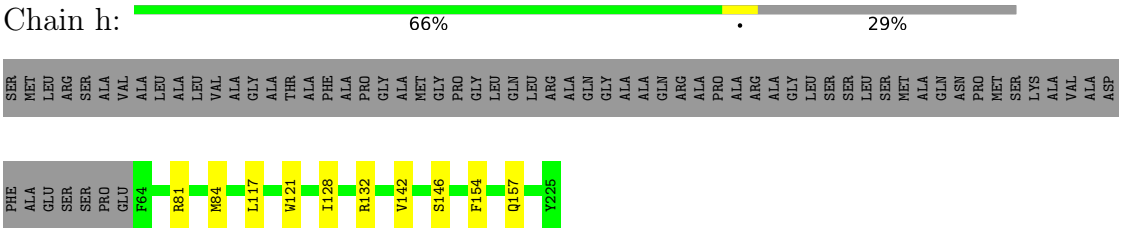
• Molecule 16: ACPI-b

Chain b:

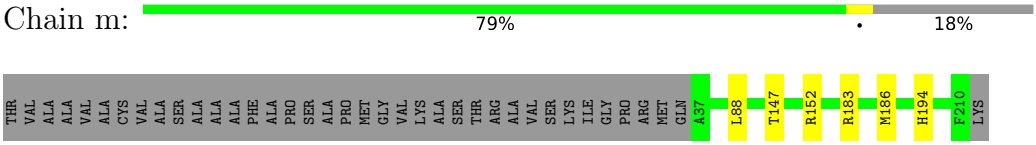




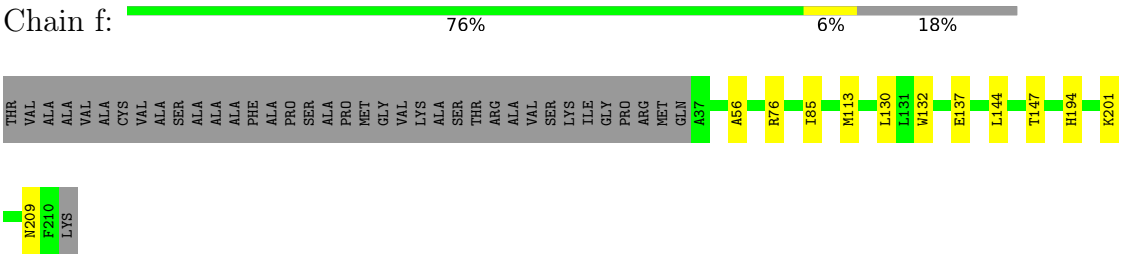

• Molecule 17: ACPI-h



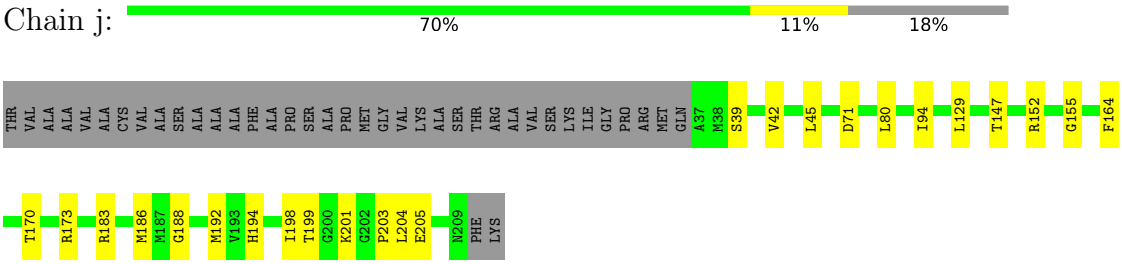

• Molecule 18: ACPI-m,f,j



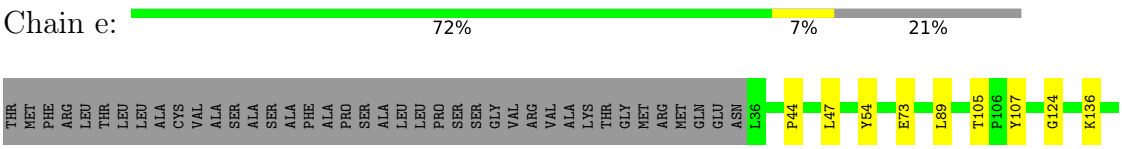

• Molecule 18: ACPI-m,f,j

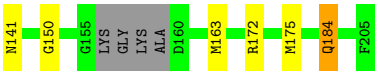



• Molecule 18: ACPI-m,f,j




• Molecule 19: ACPI-e

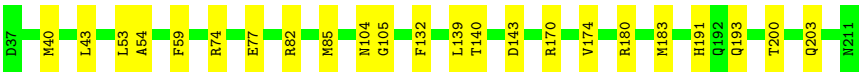





• Molecule 20: ACPI-l

Chain l:

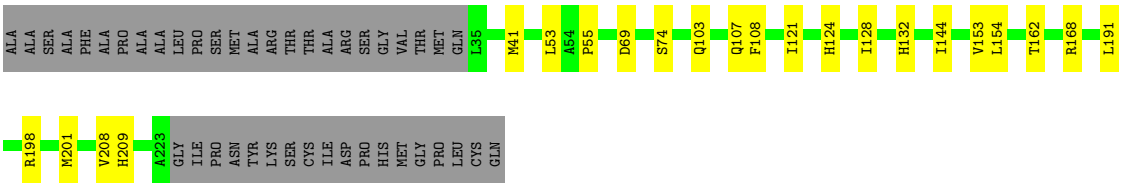



• Molecule 21: ACPI-k

Chain k:

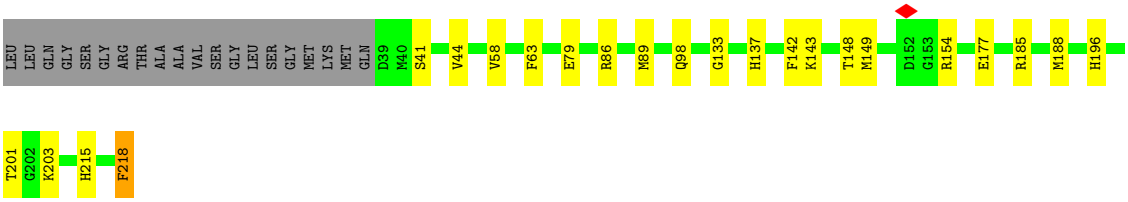



• Molecule 22: ACPI-i

Chain i:

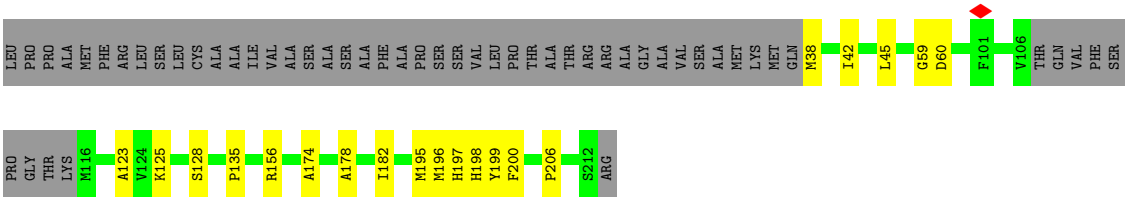



• Molecule 23: ACPI-d

Chain d:




• Molecule 24: ACPI-g

Chain g:

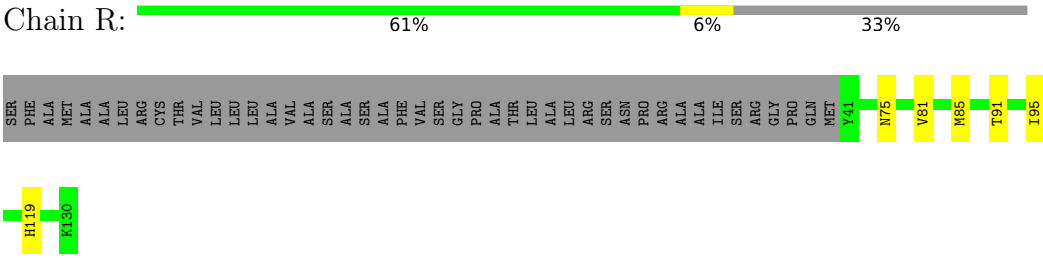






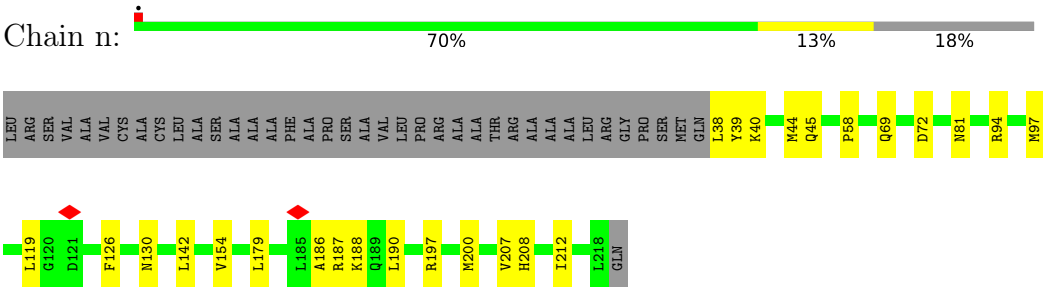
• Molecule 25: PsaR

Chain R:



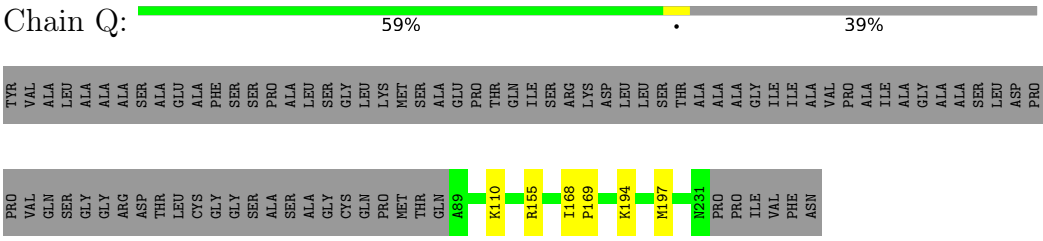

• Molecule 26: ACPI-n

Chain n:




• Molecule 27: PsaQ

Chain Q:



# 4 Experimental information (i)

| Property | Value | Source |
|---|---|---|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, C1 | Depositor |
| Number of particles used | 38563 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | PHASE FLIPPING AND AMPLITUDE CORRECTION | Depositor |
| Microscope | TFS KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/Å^2$) | 50.0 | Depositor |
| Minimum defocus (nm) | 200 | Depositor |
| Maximum defocus (nm) | 1000 | Depositor |
| Magnification | Not provided | |
| Image detector | FEI FALCON IV (4k x 4k) | Depositor |
| Maximum map value | 0.439 | Depositor |
| Minimum map value | -0.155 | Depositor |
| Average map value | 0.000 | Depositor |
| Map value standard deviation | 0.011 | Depositor |
| Recommended contour level | 0.032 | Depositor |
| Map size (Å) | 436.2, 436.2, 436.2 | wwPDB |
| Map dimensions | 600, 600, 600 | wwPDB |
| Map angles (°) | 90.0, 90.0, 90.0 | wwPDB |
| Pixel spacing (Å) | 0.727, 0.727, 0.727 | Depositor |

# 5 Model quality (i)

## 5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: II0, WVN, SQD, DGD, KC2, SF4, LMU, LMG, CLA, CL0, LHG, IHT, PQN

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 | 0.24 | 0/6020 | 0.46 | 0/8205 |
| 2 | B | 0.25 | 0/6055 | 0.50 | 0/8266 |
| 3 | C | 0.17 | 0/601 | 0.48 | 0/813 |
| 4 | D | 0.16 | 0/1100 | 0.43 | 0/1488 |
| 5 | E | 0.16 | 0/492 | 0.34 | 0/666 |
| 6 | F | 0.22 | 0/1291 | 0.43 | 0/1750 |
| 7 | I | 0.25 | 0/262 | 0.55 | 0/358 |
| 8 | J | 0.21 | 0/364 | 0.48 | 0/495 |
| 9 | L | 0.22 | 0/1188 | 0.46 | 0/1616 |
| 10 | M | 0.17 | 0/233 | 0.37 | 0/315 |
| 11 | O | 0.23 | 0/741 | 0.49 | 0/1016 |
| 12 | K | 0.22 | 0/489 | 0.48 | 0/664 |
| 13 | s | 0.17 | 0/1177 | 0.42 | 0/1591 |
| 14 | c | 0.23 | 0/1401 | 0.48 | 0/1896 |
| 15 | a | 0.22 | 0/1372 | 0.42 | 0/1858 |
| 16 | b | 0.27 | 0/1360 | 0.49 | 0/1834 |
| 17 | h | 0.20 | 0/1228 | 0.44 | 0/1671 |
| 18 | f | 0.24 | 0/1334 | 0.51 | 1/1797 (0.1%) |
| 18 | j | 0.24 | 0/1329 | 0.49 | 0/1789 |
| 18 | m | 0.21 | 0/1341 | 0.44 | 0/1805 |
| 19 | e | 0.20 | 0/1303 | 0.48 | 0/1764 |
| 20 | l | 0.21 | 0/1365 | 0.44 | 0/1845 |
| 21 | k | 0.24 | 0/1445 | 0.55 | 0/1954 |
| 22 | i | 0.28 | 0/1400 | 0.56 | 0/1891 |
| 23 | d | 0.27 | 0/1259 | 0.57 | 0/1700 |
| 24 | g | 0.25 | 0/1650 | 0.51 | 0/2238 |
| 25 | R | 0.22 | 0/687 | 0.49 | 0/940 |
| 26 | n | 0.21 | 0/1371 | 0.52 | 0/1847 |
| 27 | Q | 0.21 | 0/1053 | 0.46 | 0/1418 |
| All | All | 0.23 | 0/40911 | 0.48 | 1/55490 (0.0%) |

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 |
|---|---|---|---|
| 2 | B | 0 | 1 |
| 3 | C | 0 | 1 |
| 11 | O | 0 | 1 |
| 16 | b | 0 | 1 |
| All | All | 0 | 4 |

There are no bond length outliers.

All (1) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 18 | f | 113 | MET | CB-CA-C | -5.69 | 109.49 | 117.23 |

There are no chirality outliers.

All (4) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|---|---|---|---|---|
| 2 | B | 666 | TRP | Peptide |
| 3 | C | 61 | ASP | Peptide |
| 11 | O | 86 | PHE | Peptide |
| 16 | b | 188 | GLN | Sidechain |

## 5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|---|---|---|---|---|---|---|
| 1 | A | 5826 | 0 | 5682 | 74 | 0 |
| 2 | B | 5832 | 0 | 5643 | 71 | 0 |
| 3 | C | 592 | 0 | 567 | 3 | 0 |
| 4 | D | 1075 | 0 | 1074 | 9 | 0 |
| 5 | E | 484 | 0 | 486 | 0 | 0 |
| 6 | F | 1257 | 0 | 1266 | 11 | 0 |
| 7 | I | 255 | 0 | 270 | 4 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|---|---|---|---|---|---|---|
| 8 | J | 351 | 0 | 344 | 8 | 0 |
| 9 | L | 1158 | 0 | 1170 | 13 | 0 |
| 10 | M | 232 | 0 | 265 | 4 | 0 |
| 11 | O | 714 | 0 | 703 | 6 | 0 |
| 12 | K | 482 | 0 | 511 | 6 | 0 |
| 13 | s | 1146 | 0 | 1095 | 6 | 0 |
| 14 | c | 1362 | 0 | 1338 | 17 | 0 |
| 15 | a | 1331 | 0 | 1284 | 13 | 0 |
| 16 | b | 1332 | 0 | 1336 | 21 | 0 |
| 17 | h | 1201 | 0 | 1228 | 7 | 0 |
| 18 | f | 1306 | 0 | 1311 | 9 | 0 |
| 18 | j | 1302 | 0 | 1316 | 17 | 0 |
| 18 | m | 1313 | 0 | 1326 | 6 | 0 |
| 19 | e | 1268 | 0 | 1244 | 12 | 0 |
| 20 | l | 1333 | 0 | 1311 | 17 | 0 |
| 21 | k | 1412 | 0 | 1429 | 17 | 0 |
| 22 | i | 1363 | 0 | 1322 | 16 | 0 |
| 23 | d | 1231 | 0 | 1237 | 14 | 0 |
| 24 | g | 1608 | 0 | 1638 | 21 | 0 |
| 25 | R | 666 | 0 | 655 | 6 | 0 |
| 26 | n | 1343 | 0 | 1356 | 22 | 0 |
| 27 | Q | 1041 | 0 | 1071 | 7 | 0 |
| 28 | A | 65 | 0 | 72 | 5 | 0 |
| 29 | A | 2533 | 0 | 2645 | 83 | 0 |
| 29 | B | 2592 | 0 | 2717 | 81 | 0 |
| 29 | F | 182 | 0 | 187 | 5 | 0 |
| 29 | J | 42 | 0 | 31 | 0 | 0 |
| 29 | K | 107 | 0 | 103 | 3 | 0 |
| 29 | L | 225 | 0 | 208 | 6 | 0 |
| 29 | O | 182 | 0 | 187 | 2 | 0 |
| 29 | Q | 65 | 0 | 72 | 1 | 0 |
| 29 | R | 55 | 0 | 49 | 5 | 0 |
| 29 | a | 638 | 0 | 629 | 19 | 0 |
| 29 | b | 724 | 0 | 735 | 30 | 0 |
| 29 | c | 607 | 0 | 560 | 15 | 0 |
| 29 | d | 529 | 0 | 417 | 7 | 0 |
| 29 | e | 587 | 0 | 588 | 15 | 0 |
| 29 | f | 700 | 0 | 695 | 14 | 0 |
| 29 | g | 765 | 0 | 763 | 22 | 0 |
| 29 | h | 454 | 0 | 429 | 10 | 0 |
| 29 | i | 608 | 0 | 622 | 10 | 0 |
| 29 | j | 669 | 0 | 623 | 15 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|---|---|---|---|---|---|---|
| 29 | k | 603 | 0 | 548 | 12 | 0 |
| 29 | l | 597 | 0 | 601 | 11 | 0 |
| 29 | m | 680 | 0 | 655 | 20 | 0 |
| 29 | n | 614 | 0 | 570 | 22 | 0 |
| 29 | s | 195 | 0 | 216 | 4 | 0 |
| 30 | A | 33 | 0 | 46 | 4 | 0 |
| 30 | B | 33 | 0 | 46 | 1 | 0 |
| 31 | A | 102 | 0 | 128 | 3 | 0 |
| 31 | J | 33 | 0 | 36 | 3 | 0 |
| 31 | L | 83 | 0 | 108 | 2 | 0 |
| 31 | a | 98 | 0 | 148 | 3 | 0 |
| 31 | b | 49 | 0 | 72 | 1 | 0 |
| 31 | c | 86 | 0 | 118 | 4 | 0 |
| 31 | e | 37 | 0 | 44 | 0 | 0 |
| 31 | f | 86 | 0 | 118 | 3 | 0 |
| 31 | g | 82 | 0 | 104 | 1 | 0 |
| 31 | i | 37 | 0 | 44 | 2 | 0 |
| 31 | j | 30 | 0 | 28 | 0 | 0 |
| 31 | l | 32 | 0 | 34 | 0 | 0 |
| 31 | m | 37 | 0 | 44 | 1 | 0 |
| 31 | n | 43 | 0 | 59 | 3 | 0 |
| 31 | s | 33 | 0 | 40 | 3 | 0 |
| 32 | A | 200 | 0 | 0 | 0 | 0 |
| 32 | B | 200 | 0 | 0 | 1 | 0 |
| 32 | F | 120 | 0 | 0 | 0 | 0 |
| 32 | I | 40 | 0 | 0 | 0 | 0 |
| 32 | J | 40 | 0 | 0 | 0 | 0 |
| 32 | K | 40 | 0 | 0 | 0 | 0 |
| 32 | L | 120 | 0 | 0 | 0 | 0 |
| 32 | M | 40 | 0 | 0 | 0 | 0 |
| 32 | R | 80 | 0 | 0 | 0 | 0 |
| 32 | e | 40 | 0 | 0 | 0 | 0 |
| 32 | h | 40 | 0 | 0 | 0 | 0 |
| 32 | i | 40 | 0 | 0 | 0 | 0 |
| 32 | l | 80 | 0 | 0 | 0 | 0 |
| 32 | s | 80 | 0 | 0 | 0 | 0 |
| 33 | A | 69 | 0 | 87 | 3 | 0 |
| 33 | B | 35 | 0 | 46 | 1 | 0 |
| 33 | a | 35 | 0 | 46 | 0 | 0 |
| 33 | i | 35 | 0 | 46 | 0 | 0 |
| 34 | A | 8 | 0 | 0 | 0 | 0 |
| 34 | C | 16 | 0 | 0 | 0 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|---|---|---|---|---|---|---|
| 35 | A | 54 | 0 | 78 | 0 | 0 |
| 36 | B | 66 | 0 | 96 | 4 | 0 |
| 36 | j | 62 | 0 | 84 | 3 | 0 |
| 37 | F | 94 | 0 | 134 | 4 | 0 |
| 37 | L | 45 | 0 | 61 | 0 | 0 |
| 37 | O | 26 | 0 | 22 | 0 | 0 |
| 37 | Q | 38 | 0 | 46 | 4 | 0 |
| 37 | b | 42 | 0 | 54 | 2 | 0 |
| 37 | c | 98 | 0 | 141 | 4 | 0 |
| 37 | n | 51 | 0 | 75 | 2 | 0 |
| 38 | J | 42 | 0 | 0 | 0 | 0 |
| 38 | O | 42 | 0 | 0 | 0 | 0 |
| 38 | a | 168 | 0 | 0 | 0 | 0 |
| 38 | b | 168 | 0 | 0 | 2 | 0 |
| 38 | c | 84 | 0 | 0 | 0 | 0 |
| 38 | d | 252 | 0 | 0 | 0 | 0 |
| 38 | e | 168 | 0 | 0 | 0 | 0 |
| 38 | f | 168 | 0 | 0 | 0 | 0 |
| 38 | g | 168 | 0 | 0 | 2 | 0 |
| 38 | h | 112 | 0 | 0 | 0 | 0 |
| 38 | i | 168 | 0 | 0 | 0 | 0 |
| 38 | j | 126 | 0 | 0 | 0 | 0 |
| 38 | k | 252 | 0 | 0 | 1 | 0 |
| 38 | l | 168 | 0 | 0 | 0 | 0 |
| 38 | m | 168 | 0 | 0 | 0 | 0 |
| 38 | n | 168 | 0 | 0 | 4 | 0 |
| 39 | O | 41 | 0 | 0 | 0 | 0 |
| 39 | R | 41 | 0 | 0 | 0 | 0 |
| 39 | a | 41 | 0 | 0 | 0 | 0 |
| 39 | b | 41 | 0 | 0 | 1 | 0 |
| 39 | c | 82 | 0 | 0 | 0 | 0 |
| 39 | f | 41 | 0 | 0 | 0 | 0 |
| 39 | g | 82 | 0 | 0 | 5 | 0 |
| 39 | j | 41 | 0 | 0 | 0 | 0 |
| 39 | m | 41 | 0 | 0 | 0 | 0 |
| 39 | n | 41 | 0 | 0 | 1 | 0 |
| 40 | c | 45 | 0 | 0 | 0 | 0 |
| 40 | d | 90 | 0 | 0 | 1 | 0 |
| 40 | e | 45 | 0 | 0 | 0 | 0 |
| 40 | f | 45 | 0 | 0 | 1 | 0 |
| 40 | g | 135 | 0 | 0 | 5 | 0 |
| 40 | i | 90 | 0 | 0 | 2 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|---|---|---|---|---|---|---|
| 40 | j | 45 | 0 | 0 | 0 | 0 |
| 40 | k | 135 | 0 | 0 | 0 | 0 |
| 40 | l | 45 | 0 | 0 | 3 | 0 |
| 40 | m | 45 | 0 | 0 | 0 | 0 |
| 40 | n | 90 | 0 | 0 | 1 | 0 |
| 40 | s | 90 | 0 | 0 | 2 | 0 |
| 41 | A | 126 | 0 | 0 | 1 | 0 |
| 41 | B | 150 | 0 | 0 | 1 | 0 |
| 41 | C | 22 | 0 | 0 | 0 | 0 |
| 41 | D | 15 | 0 | 0 | 0 | 0 |
| 41 | E | 6 | 0 | 0 | 0 | 0 |
| 41 | F | 14 | 0 | 0 | 0 | 0 |
| 41 | J | 2 | 0 | 0 | 0 | 0 |
| 41 | K | 2 | 0 | 0 | 0 | 0 |
| 41 | L | 15 | 0 | 0 | 0 | 0 |
| 41 | M | 2 | 0 | 0 | 0 | 0 |
| 41 | O | 5 | 0 | 0 | 0 | 0 |
| 41 | R | 1 | 0 | 0 | 0 | 0 |
| 41 | a | 16 | 0 | 0 | 1 | 0 |
| 41 | b | 21 | 0 | 0 | 0 | 0 |
| 41 | c | 2 | 0 | 0 | 0 | 0 |
| 41 | e | 3 | 0 | 0 | 0 | 0 |
| 41 | f | 1 | 0 | 0 | 0 | 0 |
| 41 | g | 1 | 0 | 0 | 0 | 0 |
| 41 | h | 9 | 0 | 0 | 0 | 0 |
| 41 | m | 1 | 0 | 0 | 0 | 0 |
| 41 | n | 1 | 0 | 0 | 0 | 0 |
| 41 | s | 7 | 0 | 0 | 0 | 0 |
| All | All | 61938 | 0 | 56633 | 661 | 0 |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 6.

All (661) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 22:i:218:PHE:CE1 | 22:i:218:PHE:CE2 | 2.33 | 1.07 |
| 29:g:316:CLA:H111 | 39:g:324:IHT:C36 | 2.07 | 0.84 |
| 14:c:98:GLY:O | 14:c:102:GLN:HB3 | 1.79 | 0.83 |
| 2:B:373:HIS:HE1 | 29:B:825:CLA:ND | 1.77 | 0.81 |
| 1:A:410:HIS:HE1 | 29:A:829:CLA:NA | 1.80 | 0.78 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 1:A:395:HIS:HE1 | 29:A:827:CLA:ND | 1.81 | 0.76 |
| 20:l:174:VAL:HG11 | 40:l:311:KC2:CAA | 2.17 | 0.74 |
| 29:B:842:CLA:HBB2 | 29:R:203:CLA:H11 | 1.68 | 0.73 |
| 1:A:53:HIS:HE1 | 29:A:840:CLA:ND | 1.89 | 0.71 |
| 29:g:316:CLA:C11 | 39:g:324:IHT:C36 | 2.69 | 0.70 |
| 2:B:438:HIS:HE1 | 29:B:830:CLA:NA | 1.90 | 0.70 |
| 29:g:316:CLA:C12 | 39:g:324:IHT:C36 | 2.70 | 0.69 |
| 2:B:388:HIS:HE1 | 29:B:827:CLA:NA | 1.91 | 0.69 |
| 29:c:303:CLA:HAC1 | 29:c:306:CLA:HAB | 1.74 | 0.69 |
| 29:g:304:CLA:H62 | 29:g:305:CLA:HHB | 1.75 | 0.68 |
| 9:L:151:MET:HB3 | 11:O:87:PRO:HG3 | 1.74 | 0.68 |
| 29:b:313:CLA:HAA1 | 31:b:318:LHG:HC62 | 1.74 | 0.68 |
| 14:c:197:GLN:OE1 | 29:c:311:CLA:NA | 2.28 | 0.67 |
| 29:h:306:CLA:HBB2 | 29:h:307:CLA:HBB2 | 1.76 | 0.67 |
| 1:A:94:HIS:HE1 | 29:A:806:CLA:NA | 1.94 | 0.65 |
| 1:A:443:LEU:HD22 | 29:A:836:CLA:HBB1 | 1.79 | 0.65 |
| 18:m:183:ARG:HB3 | 29:m:602:CLA:HBC3 | 1.79 | 0.65 |
| 1:A:446:ILE:HD11 | 29:A:835:CLA:HBB2 | 1.77 | 0.64 |
| 1:A:460:HIS:HE1 | 29:A:832:CLA:NA | 1.93 | 0.64 |
| 29:n:609:CLA:HAB | 38:n:614:II0:C32 | 2.28 | 0.64 |
| 20:l:53:LEU:HB3 | 20:l:74:ARG:HH21 | 1.62 | 0.63 |
| 29:j:309:CLA:HED2 | 29:j:309:CLA:H2A | 1.79 | 0.62 |
| 21:k:103:GLN:OE1 | 29:k:604:CLA:NA | 2.32 | 0.62 |
| 21:k:74:SER:HB3 | 29:k:602:CLA:HBA1 | 1.81 | 0.62 |
| 29:B:840:CLA:H2 | 29:B:840:CLA:HED2 | 1.80 | 0.62 |
| 20:l:54:ALA:O | 20:l:74:ARG:NH2 | 2.33 | 0.61 |
| 7:I:29:TYR:HH | 10:M:29:TYR:HH | 1.48 | 0.60 |
| 15:a:162:ARG:NH2 | 21:k:53:LEU:O | 2.33 | 0.60 |
| 18:j:129:LEU:HB2 | 29:j:308:CLA:HBC1 | 1.83 | 0.60 |
| 26:n:179:LEU:HD22 | 29:n:609:CLA:H2 | 1.84 | 0.60 |
| 29:l:310:CLA:H142 | 40:l:311:KC2:CMA | 2.32 | 0.60 |
| 16:b:68:ARG:NH1 | 16:b:71:GLU:OE1 | 2.35 | 0.59 |
| 29:b:309:CLA:H193 | 29:m:613:CLA:H121 | 1.85 | 0.59 |
| 26:n:142:LEU:HD23 | 37:n:620:LMG:H291 | 1.85 | 0.58 |
| 13:s:126:THR:OG1 | 13:s:139:ARG:NH1 | 2.37 | 0.58 |
| 4:D:42:VAL:HG22 | 4:D:52:ILE:HG12 | 1.85 | 0.58 |
| 29:B:821:CLA:HAB | 29:B:828:CLA:HMD2 | 1.84 | 0.58 |
| 1:A:693:ARG:H | 2:B:567:CYS:HB2 | 1.67 | 0.58 |
| 6:F:120:VAL:HG13 | 29:F:202:CLA:HAA1 | 1.83 | 0.58 |
| 12:K:22:ALA:HB1 | 29:e:311:CLA:H142 | 1.86 | 0.58 |
| 2:B:182:PHE:HZ | 29:B:822:CLA:H11 | 1.70 | 0.57 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 22:i:79:GLU:HG2 | 22:i:149:MET:HE1 | 1.84 | 0.57 |
| 18:j:71:ASP:HB2 | 36:j:319:DGD:HD3 | 1.87 | 0.57 |
| 2:B:192:HIS:HE1 | 29:B:813:CLA:NA | 1.95 | 0.57 |
| 26:n:126:PHE:O | 26:n:130:ASN:ND2 | 2.37 | 0.56 |
| 29:n:610:CLA:HBA2 | 29:n:610:CLA:HED2 | 1.86 | 0.56 |
| 1:A:435:HIS:CE1 | 29:A:830:CLA:ND | 2.72 | 0.56 |
| 29:A:850:CLA:H91 | 29:B:804:CLA:H101 | 1.87 | 0.56 |
| 9:L:44:LEU:HD23 | 24:g:71:PRO:HD3 | 1.86 | 0.56 |
| 19:e:124:GLY:HA3 | 29:e:305:CLA:HBC2 | 1.86 | 0.56 |
| 23:d:135:PRO:HG2 | 29:d:306:CLA:HBC2 | 1.85 | 0.56 |
| 16:b:48:ALA:O | 16:b:68:ARG:NH2 | 2.39 | 0.56 |
| 4:D:40:GLU:HG2 | 4:D:54:ARG:HA | 1.87 | 0.56 |
| 1:A:57:HIS:HE1 | 29:A:803:CLA:NC | 2.04 | 0.56 |
| 2:B:307:HIS:HE1 | 29:B:820:CLA:ND | 2.03 | 0.56 |
| 1:A:222:ILE:HD12 | 1:A:242:PRO:HB3 | 1.88 | 0.56 |
| 31:L:208:LHG:H252 | 29:g:302:CLA:C4D | 2.09 | 0.56 |
| 24:g:66:VAL:HG11 | 29:g:304:CLA:H42 | 1.87 | 0.56 |
| 8:J:42:MET:HA | 31:J:104:LHG:HC11 | 1.89 | 0.55 |
| 1:A:262:GLY:HA3 | 29:A:814:CLA:H42 | 1.88 | 0.55 |
| 1:A:707:HIS:HE1 | 29:A:851:CLA:ND | 2.04 | 0.55 |
| 2:B:67:LEU:HD12 | 2:B:71:GLY:HA3 | 1.88 | 0.55 |
| 20:l:191:HIS:CD2 | 29:l:301:CLA:NA | 2.73 | 0.55 |
| 29:a:302:CLA:H51 | 29:a:309:CLA:HBB2 | 1.88 | 0.55 |
| 29:l:305:CLA:H2 | 29:l:305:CLA:HED2 | 1.87 | 0.55 |
| 2:B:14:ASP:HB3 | 2:B:19:ARG:HB2 | 1.88 | 0.55 |
| 29:B:817:CLA:H192 | 29:B:831:CLA:H11 | 1.87 | 0.55 |
| 16:b:102:MET:HE3 | 16:b:104:LEU:HB2 | 1.87 | 0.55 |
| 29:A:837:CLA:H101 | 8:J:17:THR:HG23 | 1.89 | 0.55 |
| 9:L:64:LYS:HE2 | 31:L:209:LHG:HC61 | 1.89 | 0.55 |
| 29:b:310:CLA:H152 | 29:m:602:CLA:H121 | 1.87 | 0.55 |
| 20:l:74:ARG:NH1 | 20:l:77:GLU:OE1 | 2.40 | 0.55 |
| 6:F:159:THR:HG22 | 16:b:135:THR:HB | 1.89 | 0.55 |
| 22:i:196:HIS:CD2 | 29:i:312:CLA:NA | 2.75 | 0.55 |
| 4:D:34:THR:HA | 4:D:58:ASN:O | 2.07 | 0.54 |
| 19:e:136:LYS:HB3 | 19:e:141:ASN:HB3 | 1.89 | 0.54 |
| 29:A:824:CLA:HBA1 | 29:A:828:CLA:H193 | 1.89 | 0.54 |
| 18:j:147:THR:OG1 | 18:j:152:ARG:NH1 | 2.37 | 0.54 |
| 1:A:340:HIS:CD2 | 29:A:823:CLA:ND | 2.75 | 0.54 |
| 16:b:88:GLN:OE1 | 29:b:305:CLA:NA | 2.41 | 0.54 |
| 29:A:835:CLA:H191 | 29:L:203:CLA:H71 | 1.90 | 0.54 |
| 20:l:203:GLN:NE2 | 29:l:312:CLA:O1D | 2.41 | 0.54 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 24:g:115:VAL:HB | 24:g:119:SER:HB3 | 1.89 | 0.54 |
| 23:d:174:ALA:O | 23:d:178:ALA:N | 2.38 | 0.54 |
| 24:g:244:VAL:HA | 24:g:248:LEU:HB2 | 1.89 | 0.54 |
| 2:B:610:GLU:OE1 | 6:F:44:ARG:NH2 | 2.41 | 0.54 |
| 2:B:721:ALA:HB2 | 29:B:825:CLA:HBB1 | 1.90 | 0.54 |
| 18:j:192:MET:HG2 | 18:j:203:PRO:HB3 | 1.90 | 0.54 |
| 26:n:197:ARG:HA | 26:n:200:MET:HE3 | 1.89 | 0.54 |
| 21:k:144:ILE:HB | 29:k:607:CLA:HBC1 | 1.89 | 0.54 |
| 18:f:194:HIS:CD2 | 29:f:613:CLA:NA | 2.75 | 0.54 |
| 14:c:196:HIS:CD2 | 29:c:312:CLA:NA | 2.76 | 0.53 |
| 29:a:302:CLA:H161 | 29:l:301:CLA:H121 | 1.89 | 0.53 |
| 2:B:238:THR:HG22 | 2:B:240:ASN:H | 1.74 | 0.53 |
| 26:n:187:ARG:HH22 | 40:n:611:KC2:CAD | 2.20 | 0.53 |
| 29:B:828:CLA:HAB | 29:B:835:CLA:HBB2 | 1.91 | 0.53 |
| 33:B:850:LMU:H123 | 29:j:309:CLA:HAC2 | 1.91 | 0.53 |
| 18:m:194:HIS:CD2 | 29:m:613:CLA:NA | 2.75 | 0.53 |
| 27:Q:168:ILE:HG22 | 37:Q:301:LMG:H292 | 1.91 | 0.53 |
| 21:k:209:HIS:CD2 | 29:k:614:CLA:NA | 2.75 | 0.53 |
| 2:B:298:HIS:HB3 | 2:B:303:ILE:HD11 | 1.90 | 0.53 |
| 22:i:185:ARG:HA | 22:i:188:MET:HE3 | 1.90 | 0.53 |
| 1:A:56:VAL:HG21 | 29:A:803:CLA:C2D | 2.38 | 0.53 |
| 29:A:840:CLA:HMA1 | 29:A:840:CLA:H2 | 1.91 | 0.53 |
| 22:i:215:HIS:HA | 29:j:306:CLA:CAA | 2.39 | 0.53 |
| 4:D:40:GLU:HA | 4:D:53:MET:O | 2.09 | 0.52 |
| 29:h:304:CLA:HMA2 | 29:h:305:CLA:HBC1 | 1.91 | 0.52 |
| 18:f:56:ALA:O | 18:f:76:ARG:NH2 | 2.41 | 0.52 |
| 24:g:156:ILE:HG22 | 29:g:310:CLA:H42 | 1.91 | 0.52 |
| 29:A:822:CLA:HBB2 | 29:A:836:CLA:H18 | 1.91 | 0.52 |
| 2:B:523:ALA:HB2 | 29:B:834:CLA:HMA1 | 1.92 | 0.52 |
| 24:g:206:VAL:HG11 | 39:g:320:IHT:C29 | 2.39 | 0.52 |
| 1:A:675:PHE:O | 1:A:679:HIS:ND1 | 2.36 | 0.52 |
| 29:A:840:CLA:H11 | 30:A:841:PQN:H211 | 1.91 | 0.52 |
| 2:B:173:ARG:HB2 | 29:B:812:CLA:HBC2 | 1.92 | 0.52 |
| 29:B:834:CLA:H191 | 6:F:111:VAL:HG13 | 1.92 | 0.52 |
| 29:B:842:CLA:HMC2 | 29:R:203:CLA:H3A | 1.91 | 0.52 |
| 1:A:395:HIS:HE1 | 29:A:827:CLA:C1D | 2.23 | 0.52 |
| 6:F:28:ASP:N | 6:F:32:LEU:O | 2.43 | 0.52 |
| 18:j:201:LYS:HE3 | 18:j:205:GLU:HG2 | 1.91 | 0.52 |
| 29:A:850:CLA:H143 | 29:B:840:CLA:HBC3 | 1.92 | 0.52 |
| 2:B:195:HIS:HE1 | 29:B:814:CLA:NA | 2.03 | 0.52 |
| 13:s:220:MET:HE1 | 29:m:607:CLA:H2A | 1.92 | 0.52 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 20:l:170:ARG:NH2 | 40:l:311:KC2:O2A | 2.44 | 0.51 |
| 29:a:307:CLA:H111 | 29:a:307:CLA:H171 | 1.91 | 0.51 |
| 24:g:227:LYS:HE2 | 40:g:315:KC2:O1A | 2.09 | 0.51 |
| 2:B:657:ALA:O | 2:B:660:PHE:HB2 | 2.11 | 0.51 |
| 17:h:142:VAL:O | 17:h:146:SER:OG | 2.22 | 0.51 |
| 29:A:851:CLA:H162 | 29:F:201:CLA:H52 | 1.91 | 0.51 |
| 19:e:163:MET:HG3 | 29:e:307:CLA:HHB | 1.92 | 0.51 |
| 1:A:485:PHE:HB3 | 29:A:834:CLA:H2 | 1.91 | 0.51 |
| 2:B:94:HIS:HE1 | 29:B:840:CLA:NB | 2.03 | 0.51 |
| 20:l:40:MET:HG3 | 20:l:43:LEU:HD12 | 1.91 | 0.51 |
| 1:A:225:PRO:HD3 | 1:A:252:MET:HE1 | 1.93 | 0.51 |
| 29:n:610:CLA:H72 | 29:n:610:CLA:HAA1 | 1.93 | 0.51 |
| 14:c:50:PHE:HB2 | 23:d:156:ARG:HD2 | 1.91 | 0.51 |
| 25:R:81:VAL:HG12 | 25:R:85:MET:HE2 | 1.91 | 0.51 |
| 14:c:111:PRO:HG2 | 14:c:113:MET:HE1 | 1.92 | 0.51 |
| 20:l:104:ASN:ND2 | 20:l:105:GLY:O | 2.44 | 0.51 |
| 21:k:128:ILE:O | 21:k:132:HIS:N | 2.43 | 0.51 |
| 6:F:82:ARG:HH21 | 8:J:36:ASP:HB2 | 1.75 | 0.51 |
| 1:A:182:HIS:HE1 | 29:A:810:CLA:NA | 2.08 | 0.51 |
| 14:c:89:GLY:HA3 | 14:c:184:ALA:HB1 | 1.93 | 0.50 |
| 2:B:527:HIS:CD2 | 29:B:835:CLA:NB | 2.80 | 0.50 |
| 26:n:39:TYR:HA | 26:n:186:ALA:HB3 | 1.94 | 0.50 |
| 18:m:147:THR:OG1 | 18:m:152:ARG:NH1 | 2.44 | 0.50 |
| 19:e:73:GLU:OE1 | 19:e:150:GLY:N | 2.45 | 0.50 |
| 26:n:81:ASN:ND2 | 31:n:619:LHG:O4 | 2.42 | 0.50 |
| 29:A:803:CLA:HBD | 29:A:810:CLA:H2 | 1.94 | 0.50 |
| 2:B:388:HIS:HA | 2:B:391:ILE:HD12 | 1.94 | 0.50 |
| 2:B:421:LEU:HD13 | 2:B:531:LEU:HA | 1.94 | 0.50 |
| 2:B:648:MET:O | 2:B:651:PHE:HB3 | 2.12 | 0.50 |
| 29:d:302:CLA:H151 | 29:d:313:CLA:HBB2 | 1.94 | 0.50 |
| 29:A:829:CLA:H102 | 29:A:837:CLA:HAA2 | 1.93 | 0.50 |
| 18:j:39:SER:OG | 18:j:42:VAL:O | 2.28 | 0.50 |
| 24:g:190:LYS:O | 24:g:194:ASN:ND2 | 2.33 | 0.50 |
| 2:B:177:HIS:CD2 | 29:B:812:CLA:NB | 2.79 | 0.50 |
| 1:A:32:PRO:HB3 | 29:A:840:CLA:HAC1 | 1.94 | 0.50 |
| 1:A:459:ILE:HG22 | 29:A:832:CLA:HBC2 | 1.94 | 0.50 |
| 29:B:829:CLA:HAB | 29:B:841:CLA:H203 | 1.93 | 0.50 |
| 2:B:579:MET:HG3 | 2:B:709:LEU:HD21 | 1.92 | 0.50 |
| 31:s:408:LHG:H272 | 29:m:607:CLA:HMB1 | 1.94 | 0.50 |
| 29:F:202:CLA:H101 | 29:F:202:CLA:H2 | 1.93 | 0.50 |
| 18:j:194:HIS:CD2 | 29:j:314:CLA:NA | 2.79 | 0.50 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 1:A:624:VAL:HG22 | 1:A:630:VAL:HG22 | 1.94 | 0.49 |
| 2:B:337:LEU:HD21 | 29:B:827:CLA:HAB | 1.94 | 0.49 |
| 31:c:320:LHG:H272 | 29:b:312:CLA:HBA1 | 1.94 | 0.49 |
| 15:a:182:ARG:HA | 15:a:185:MET:HE3 | 1.94 | 0.49 |
| 2:B:4:PHE:HB2 | 7:I:30:ILE:HA | 1.93 | 0.49 |
| 2:B:437:VAL:HG12 | 29:B:830:CLA:HAC1 | 1.94 | 0.49 |
| 19:e:47:LEU:HB3 | 19:e:54:TYR:HE1 | 1.77 | 0.49 |
| 29:B:808:CLA:HAB | 29:B:809:CLA:HAA2 | 1.92 | 0.49 |
| 1:A:57:HIS:HE1 | 29:A:803:CLA:C1C | 2.26 | 0.49 |
| 3:C:29:VAL:HG12 | 4:D:113:ARG:HB3 | 1.94 | 0.49 |
| 23:d:60:ASP:OD1 | 23:d:60:ASP:N | 2.46 | 0.49 |
| 29:k:602:CLA:HBA2 | 29:k:602:CLA:H3A | 1.54 | 0.49 |
| 23:d:198:HIS:NE2 | 40:d:312:KC2:NA | 2.61 | 0.49 |
| 18:m:183:ARG:HA | 18:m:186:MET:HE3 | 1.94 | 0.49 |
| 29:l:304:CLA:H2A | 29:l:304:CLA:HED2 | 1.95 | 0.49 |
| 15:a:194:HIS:HE1 | 29:a:311:CLA:NB | 2.09 | 0.49 |
| 37:c:318:LMG:H182 | 29:b:311:CLA:H13 | 1.95 | 0.49 |
| 16:b:47:MET:HB3 | 16:b:68:ARG:HH21 | 1.78 | 0.48 |
| 29:f:607:CLA:H3A | 29:f:607:CLA:HBA2 | 1.46 | 0.48 |
| 29:d:302:CLA:HBA2 | 29:d:302:CLA:H3A | 1.48 | 0.48 |
| 2:B:25:ALA:HB2 | 36:B:844:DGD:HA52 | 1.95 | 0.48 |
| 37:c:318:LMG:H111 | 29:b:311:CLA:H203 | 1.95 | 0.48 |
| 29:f:610:CLA:H92 | 40:f:611:KC2:CED | 2.43 | 0.48 |
| 27:Q:155:ARG:NH2 | 37:Q:301:LMG:O2 | 2.46 | 0.48 |
| 1:A:77:HIS:CE1 | 29:A:804:CLA:ND | 2.81 | 0.48 |
| 1:A:372:HIS:CD2 | 29:A:826:CLA:NC | 2.80 | 0.48 |
| 1:A:460:HIS:HE1 | 29:A:832:CLA:C1A | 2.26 | 0.48 |
| 2:B:213:LYS:HD3 | 27:Q:169:PRO:HB3 | 1.95 | 0.48 |
| 20:l:40:MET:HE1 | 20:l:59:PHE:HA | 1.96 | 0.48 |
| 29:j:309:CLA:H3A | 29:j:309:CLA:HBA2 | 1.62 | 0.48 |
| 1:A:203:HIS:CD2 | 29:A:812:CLA:NB | 2.81 | 0.48 |
| 1:A:669:SER:HB2 | 2:B:444:ALA:HB1 | 1.95 | 0.48 |
| 31:s:408:LHG:H261 | 29:m:607:CLA:H2 | 1.96 | 0.48 |
| 24:g:123:THR:HG22 | 24:g:127:MET:HE2 | 1.96 | 0.48 |
| 1:A:179:PHE:CE1 | 33:A:855:LMU:H6E | 2.49 | 0.48 |
| 20:l:139:LEU:HG | 29:l:308:CLA:HMA1 | 1.96 | 0.48 |
| 29:i:302:CLA:H43 | 31:i:317:LHG:H262 | 1.94 | 0.48 |
| 1:A:351:TRP:HB3 | 29:A:804:CLA:HAC1 | 1.95 | 0.48 |
| 29:B:826:CLA:H143 | 32:B:845:WVN:C40 | 2.42 | 0.48 |
| 18:j:94:ILE:HG23 | 18:j:204:LEU:HD11 | 1.96 | 0.48 |
| 8:J:12:ALA:O | 8:J:16:PHE:HB2 | 2.14 | 0.48 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 13:s:224:GLU:OE2 | 16:b:92:HIS:NE2 | 2.47 | 0.48 |
| 1:A:218:HIS:HE1 | 29:A:813:CLA:NA | 2.02 | 0.48 |
| 29:B:824:CLA:H191 | 29:B:842:CLA:H152 | 1.95 | 0.48 |
| 9:L:57[B]:PHE:HZ | 29:L:203:CLA:HBB1 | 1.77 | 0.48 |
| 9:L:90:VAL:HG21 | 9:L:124:LEU:HD13 | 1.95 | 0.48 |
| 18:f:137:GLU:HG2 | 29:f:608:CLA:C4B | 2.44 | 0.48 |
| 29:c:308:CLA:H3A | 29:c:308:CLA:HBA2 | 1.56 | 0.48 |
| 29:f:601:CLA:H3A | 29:f:601:CLA:HBA2 | 1.57 | 0.48 |
| 29:A:811:CLA:HBB2 | 29:A:819:CLA:H141 | 1.96 | 0.48 |
| 29:B:817:CLA:H3A | 29:B:817:CLA:HBA2 | 1.64 | 0.48 |
| 6:F:154:LEU:HA | 6:F:157:VAL:HG22 | 1.96 | 0.48 |
| 14:c:200:VAL:HG23 | 14:c:201:THR:HG23 | 1.95 | 0.48 |
| 29:b:305:CLA:H101 | 29:b:306:CLA:H172 | 1.96 | 0.48 |
| 27:Q:169:PRO:HG3 | 37:Q:301:LMG:HC2 | 1.95 | 0.48 |
| 2:B:88:HIS:CD2 | 29:B:808:CLA:NA | 2.82 | 0.47 |
| 2:B:706:LEU:HD23 | 36:B:844:DGD:HA21 | 1.96 | 0.47 |
| 15:a:44:SER:OG | 15:a:47:ILE:O | 2.30 | 0.47 |
| 19:e:105:THR:HG22 | 19:e:107:TYR:H | 1.77 | 0.47 |
| 18:f:132:TRP:CZ2 | 29:f:606:CLA:HBB1 | 2.49 | 0.47 |
| 29:f:613:CLA:H62 | 29:f:613:CLA:H41 | 1.63 | 0.47 |
| 1:A:219:GLN:HA | 1:A:223:SER:HB2 | 1.95 | 0.47 |
| 1:A:546:HIS:CD2 | 29:A:836:CLA:NB | 2.82 | 0.47 |
| 29:A:816:CLA:H62 | 29:A:816:CLA:H41 | 1.54 | 0.47 |
| 29:A:817:CLA:HAC1 | 29:A:833:CLA:H42 | 1.95 | 0.47 |
| 29:B:807:CLA:H12 | 7:I:14:ILE:HG13 | 1.96 | 0.47 |
| 37:F:206:LMG:H432 | 31:J:104:LHG:H262 | 1.95 | 0.47 |
| 22:i:133:GLY:O | 22:i:137:HIS:ND1 | 2.32 | 0.47 |
| 29:i:302:CLA:HBA2 | 29:i:302:CLA:H3A | 1.43 | 0.47 |
| 23:d:197:HIS:O | 23:d:200:PHE:HB2 | 2.14 | 0.47 |
| 29:n:609:CLA:H93 | 38:n:614:II0:C30 | 2.44 | 0.47 |
| 29:B:801:CLA:H41 | 29:B:801:CLA:H61 | 1.55 | 0.47 |
| 14:c:169:ASP:OD1 | 14:c:169:ASP:N | 2.46 | 0.47 |
| 29:c:302:CLA:H3A | 29:c:302:CLA:HBA2 | 1.55 | 0.47 |
| 21:k:41:MET:HG2 | 21:k:191:LEU:HD21 | 1.95 | 0.47 |
| 23:d:123:ALA:HB1 | 23:d:128:SER:HB3 | 1.95 | 0.47 |
| 26:n:200:MET:SD | 29:n:602:CLA:HAB | 2.54 | 0.47 |
| 1:A:361:MET:HG3 | 29:A:824:CLA:HHB | 1.96 | 0.47 |
| 29:j:310:CLA:H3A | 29:j:310:CLA:HBA2 | 1.49 | 0.47 |
| 29:d:304:CLA:H3A | 29:d:304:CLA:HBA2 | 1.62 | 0.47 |
| 1:A:363:GLY:HA2 | 1:A:400:GLY:HA2 | 1.97 | 0.47 |
| 31:J:104:LHG:H112 | 29:b:313:CLA:HBC1 | 1.96 | 0.47 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 29:f:610:CLA:H3A | 29:f:610:CLA:HBA2 | 1.55 | 0.47 |
| 29:g:304:CLA:H3A | 29:g:304:CLA:HBA2 | 1.61 | 0.47 |
| 2:B:518:ILE:HD13 | 29:B:803:CLA:H141 | 1.97 | 0.47 |
| 29:B:831:CLA:H61 | 29:B:831:CLA:H2 | 1.60 | 0.47 |
| 29:c:311:CLA:HBA2 | 29:c:311:CLA:H3A | 1.38 | 0.47 |
| 19:e:172:ARG:HB3 | 29:e:302:CLA:HBC3 | 1.96 | 0.47 |
| 23:d:195:MET:HB3 | 23:d:206:PRO:HG3 | 1.97 | 0.47 |
| 29:g:316:CLA:NA | 39:g:324:IHT:C39 | 2.78 | 0.47 |
| 1:A:309:VAL:HG11 | 29:A:816:CLA:H162 | 1.96 | 0.47 |
| 29:h:305:CLA:H61 | 29:h:305:CLA:H2 | 1.64 | 0.47 |
| 29:l:309:CLA:H2A | 29:l:309:CLA:HED3 | 1.96 | 0.47 |
| 29:g:304:CLA:H151 | 29:g:304:CLA:H111 | 1.61 | 0.47 |
| 29:A:851:CLA:HAA2 | 29:B:829:CLA:HMB1 | 1.96 | 0.47 |
| 23:d:125:LYS:HD2 | 23:d:125:LYS:HA | 1.73 | 0.47 |
| 30:A:841:PQN:H171 | 29:F:201:CLA:HAB | 1.97 | 0.47 |
| 20:l:193:GLN:NE2 | 20:l:200:THR:OG1 | 2.41 | 0.47 |
| 23:d:38:MET:SD | 23:d:38:MET:N | 2.88 | 0.47 |
| 1:A:54:ALA:HB2 | 31:A:842:LHG:HC82 | 1.96 | 0.47 |
| 28:A:801:CL0:H29 | 28:A:801:CL0:H40 | 1.96 | 0.47 |
| 2:B:509:LEU:HD22 | 2:B:600:ILE:HD13 | 1.96 | 0.47 |
| 29:g:311:CLA:H3A | 29:g:311:CLA:HBA2 | 1.78 | 0.47 |
| 8:J:41:PRO:HG2 | 29:b:313:CLA:HMD3 | 1.96 | 0.46 |
| 21:k:198:ARG:HA | 21:k:201:MET:HE3 | 1.97 | 0.46 |
| 23:d:197:HIS:CD2 | 29:d:313:CLA:NA | 2.82 | 0.46 |
| 1:A:535:PHE:HA | 29:A:835:CLA:HED1 | 1.96 | 0.46 |
| 14:c:166:LEU:HD13 | 29:c:308:CLA:H42 | 1.96 | 0.46 |
| 21:k:103:GLN:O | 21:k:107:GLN:NE2 | 2.46 | 0.46 |
| 24:g:128:GLU:HG2 | 24:g:136:ALA:HA | 1.96 | 0.46 |
| 26:n:101:ALA:HB2 | 38:n:614:II0:C38 | 2.44 | 0.46 |
| 1:A:540:ILE:HD12 | 28:A:801:CL0:H63 | 1.96 | 0.46 |
| 29:A:818:CLA:HAB | 29:A:818:CLA:H8 | 1.96 | 0.46 |
| 2:B:373:HIS:HE1 | 29:B:825:CLA:C1D | 2.28 | 0.46 |
| 29:L:204:CLA:H43 | 29:L:207:CLA:HBA1 | 1.97 | 0.46 |
| 2:B:110:TYR:HB3 | 17:h:121:TRP:HB3 | 1.97 | 0.46 |
| 29:B:814:CLA:H161 | 29:B:814:CLA:H122 | 1.71 | 0.46 |
| 15:a:143:TYR:HE2 | 31:a:301:LHG:H112 | 1.79 | 0.46 |
| 15:a:166:ASN:HB3 | 15:a:169:SER:HB2 | 1.97 | 0.46 |
| 29:d:307:CLA:HBA1 | 29:d:307:CLA:H3A | 1.59 | 0.46 |
| 24:g:196:ARG:HA | 24:g:199:MET:HE3 | 1.98 | 0.46 |
| 29:n:608:CLA:H11 | 31:n:619:LHG:H102 | 1.97 | 0.46 |
| 29:B:821:CLA:H2A | 29:B:821:CLA:HED3 | 1.98 | 0.46 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 15:a:78:LYS:HG3 | 15:a:153:PRO:HG3 | 1.97 | 0.46 |
| 29:e:307:CLA:H162 | 29:e:307:CLA:H141 | 1.75 | 0.46 |
| 24:g:251:ILE:HG21 | 40:g:315:KC2:OBD | 2.15 | 0.46 |
| 2:B:438:HIS:HE1 | 29:B:830:CLA:C1A | 2.28 | 0.46 |
| 29:F:203:CLA:HBA1 | 29:F:203:CLA:H3A | 1.52 | 0.46 |
| 14:c:185:ARG:HA | 14:c:188:MET:HE3 | 1.96 | 0.46 |
| 18:f:85:ILE:HD12 | 29:f:608:CLA:HMD3 | 1.98 | 0.46 |
| 18:j:199:THR:HB | 18:j:201:LYS:HG3 | 1.97 | 0.46 |
| 29:j:311:CLA:H3A | 29:j:311:CLA:HBA2 | 1.50 | 0.46 |
| 26:n:69:GLN:NE2 | 38:n:616:II0:O02 | 2.46 | 0.46 |
| 29:B:806:CLA:H112 | 29:B:806:CLA:H152 | 1.76 | 0.46 |
| 17:h:117:LEU:HD13 | 29:h:301:CLA:H92 | 1.97 | 0.46 |
| 17:h:157:GLN:NE2 | 29:h:304:CLA:OBD | 2.48 | 0.46 |
| 29:e:302:CLA:H203 | 31:f:619:LHG:H161 | 1.97 | 0.46 |
| 22:i:142:PHE:HB3 | 40:i:318:KC2:CBC | 2.46 | 0.46 |
| 26:n:207:VAL:HG11 | 39:n:617:IHT:C29 | 2.46 | 0.46 |
| 29:e:307:CLA:H3A | 29:e:307:CLA:H2 | 1.98 | 0.46 |
| 29:i:307:CLA:H3A | 29:i:307:CLA:HBA2 | 1.65 | 0.46 |
| 1:A:284:LEU:HD21 | 1:A:377:PRO:HD2 | 1.98 | 0.45 |
| 2:B:350:HIS:CD2 | 29:B:824:CLA:NC | 2.84 | 0.45 |
| 29:B:819:CLA:H92 | 25:R:75:ASN:HB3 | 1.97 | 0.45 |
| 14:c:47:ALA:HB2 | 14:c:65:VAL:HB | 1.98 | 0.45 |
| 16:b:176:ARG:HA | 16:b:179:MET:HE3 | 1.98 | 0.45 |
| 29:c:308:CLA:H142 | 29:c:308:CLA:H111 | 1.85 | 0.45 |
| 15:a:123:VAL:HG21 | 29:a:305:CLA:HAA2 | 1.97 | 0.45 |
| 29:b:307:CLA:H143 | 29:b:312:CLA:HAB | 1.98 | 0.45 |
| 18:j:188:GLY:HA2 | 29:j:313:CLA:HBB1 | 1.98 | 0.45 |
| 29:A:822:CLA:HAB | 29:O:201:CLA:HAB | 1.98 | 0.45 |
| 2:B:596:LYS:NZ | 41:B:928:HOH:O | 2.49 | 0.45 |
| 12:K:83:VAL:HG23 | 12:K:85:VAL:HG23 | 1.97 | 0.45 |
| 29:c:312:CLA:H62 | 29:c:312:CLA:H2 | 1.72 | 0.45 |
| 29:e:305:CLA:H2 | 29:e:305:CLA:H62 | 1.78 | 0.45 |
| 29:i:304:CLA:HBC1 | 29:i:307:CLA:H122 | 1.97 | 0.45 |
| 29:i:312:CLA:H102 | 29:i:312:CLA:H62 | 1.76 | 0.45 |
| 29:A:823:CLA:HMB1 | 31:A:843:LHG:HC41 | 1.98 | 0.45 |
| 24:g:214:LYS:HB3 | 24:g:218:GLN:HB2 | 1.97 | 0.45 |
| 29:a:302:CLA:H41 | 29:a:302:CLA:H62 | 1.55 | 0.45 |
| 37:b:319:LMG:H361 | 29:m:608:CLA:HMB1 | 1.97 | 0.45 |
| 21:k:154:LEU:HD13 | 29:j:302:CLA:HBC1 | 1.98 | 0.45 |
| 29:j:314:CLA:H61 | 29:j:314:CLA:H2 | 1.67 | 0.45 |
| 29:n:607:CLA:H122 | 29:n:607:CLA:H8 | 1.72 | 0.45 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 29:A:808:CLA:HAB | 29:B:830:CLA:HMD2 | 1.98 | 0.45 |
| 2:B:307:HIS:HE1 | 29:B:820:CLA:C4D | 2.30 | 0.45 |
| 4:D:64:ARG:NH2 | 4:D:66:GLU:OE1 | 2.47 | 0.45 |
| 21:k:124:HIS:HE1 | 29:k:607:CLA:NA | 2.15 | 0.45 |
| 1:A:18:ASP:OD2 | 1:A:71:ARG:NH2 | 2.46 | 0.45 |
| 2:B:179:SER:HB3 | 2:B:287:GLY:HA3 | 1.98 | 0.45 |
| 29:B:841:CLA:H2 | 29:B:841:CLA:H62 | 1.74 | 0.45 |
| 3:C:41:SER:HB2 | 4:D:116:VAL:H | 1.81 | 0.45 |
| 40:s:404:KC2:CBC | 29:a:309:CLA:HAB | 2.46 | 0.45 |
| 2:B:192:HIS:HE1 | 29:B:813:CLA:C1A | 2.29 | 0.45 |
| 2:B:630:LEU:HD22 | 2:B:723:PHE:HA | 1.98 | 0.45 |
| 29:c:308:CLA:H61 | 29:c:308:CLA:H41 | 1.58 | 0.45 |
| 27:Q:169:PRO:HD3 | 37:Q:301:LMG:HC92 | 1.99 | 0.45 |
| 1:A:582:ARG:NH1 | 41:A:916:HOH:O | 2.50 | 0.45 |
| 4:D:75:VAL:HA | 4:D:79:PHE:HD2 | 1.81 | 0.45 |
| 29:b:312:CLA:H3A | 29:b:312:CLA:HBA2 | 1.37 | 0.45 |
| 2:B:256:PHE:HD2 | 2:B:492:TRP:HB3 | 1.83 | 0.44 |
| 29:B:807:CLA:H93 | 29:B:807:CLA:H61 | 1.85 | 0.44 |
| 29:B:840:CLA:H143 | 29:h:301:CLA:HBB2 | 1.99 | 0.44 |
| 29:s:402:CLA:H141 | 29:s:402:CLA:H161 | 1.81 | 0.44 |
| 14:c:116:VAL:HG11 | 14:c:199:TRP:HE1 | 1.82 | 0.44 |
| 1:A:322:HIS:HB3 | 1:A:327:ILE:HD11 | 1.98 | 0.44 |
| 2:B:193:LEU:HA | 2:B:197:ALA:HB3 | 1.99 | 0.44 |
| 2:B:520:HIS:HE1 | 29:B:834:CLA:ND | 2.15 | 0.44 |
| 29:a:307:CLA:H171 | 29:a:307:CLA:H91 | 1.99 | 0.44 |
| 18:f:130:LEU:HD11 | 29:f:608:CLA:H172 | 1.99 | 0.44 |
| 24:g:128:GLU:OE1 | 24:g:139:HIS:ND1 | 2.45 | 0.44 |
| 29:n:610:CLA:H62 | 29:n:610:CLA:H41 | 1.77 | 0.44 |
| 1:A:582:ARG:HH11 | 1:A:585:THR:HG21 | 1.82 | 0.44 |
| 2:B:195:HIS:HE1 | 29:B:814:CLA:C1A | 2.30 | 0.44 |
| 2:B:242:ILE:HG23 | 2:B:263[A]:GLN:HE22 | 1.82 | 0.44 |
| 2:B:525:ALA:HB1 | 2:B:585:THR:HB | 1.99 | 0.44 |
| 29:B:805:CLA:HBA1 | 29:B:805:CLA:H3A | 1.58 | 0.44 |
| 3:C:15:THR:HG22 | 3:C:28:MET:HG3 | 2.00 | 0.44 |
| 22:i:143:LYS:HB3 | 22:i:148:THR:HG22 | 1.98 | 0.44 |
| 24:g:239:TRP:NE1 | 29:g:302:CLA:OBD | 2.45 | 0.44 |
| 1:A:499:ASN:HD21 | 11:O:65:LEU:HB2 | 1.83 | 0.44 |
| 12:K:26:LEU:HD22 | 29:e:311:CLA:H121 | 1.98 | 0.44 |
| 29:b:312:CLA:H102 | 29:b:312:CLA:H62 | 1.73 | 0.44 |
| 29:m:602:CLA:H3A | 29:m:602:CLA:HBA2 | 1.54 | 0.44 |
| 26:n:208:HIS:CD2 | 29:n:613:CLA:NA | 2.85 | 0.44 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 29:n:607:CLA:H61 | 29:n:607:CLA:H41 | 1.59 | 0.44 |
| 29:B:823:CLA:C2B | 29:B:835:CLA:H3A | 2.47 | 0.44 |
| 4:D:88:ARG:HB2 | 4:D:98:LEU:HD11 | 1.99 | 0.44 |
| 29:a:311:CLA:H102 | 29:b:306:CLA:HBB1 | 1.99 | 0.44 |
| 29:b:309:CLA:H43 | 26:n:154:VAL:HG11 | 2.00 | 0.44 |
| 29:b:312:CLA:H62 | 29:b:312:CLA:H2 | 1.69 | 0.44 |
| 29:e:304:CLA:H161 | 29:e:304:CLA:H122 | 1.79 | 0.44 |
| 26:n:119:LEU:HD21 | 29:n:604:CLA:HAA1 | 1.99 | 0.44 |
| 29:B:838:CLA:H52 | 29:B:838:CLA:H11 | 1.72 | 0.44 |
| 12:K:33:VAL:HG21 | 29:e:306:CLA:H43 | 1.98 | 0.44 |
| 25:R:91:THR:O | 25:R:95:ILE:HG12 | 2.18 | 0.44 |
| 1:A:121:ILE:HG13 | 1:A:122:VAL:HG13 | 2.00 | 0.44 |
| 1:A:175:PHE:CE2 | 33:A:855:LMU:H71 | 2.52 | 0.44 |
| 29:A:826:CLA:HED1 | 29:A:833:CLA:HAB | 1.99 | 0.44 |
| 29:A:840:CLA:H41 | 29:A:840:CLA:H62 | 1.79 | 0.44 |
| 37:c:318:LMG:HC71 | 29:b:302:CLA:HBD | 2.00 | 0.44 |
| 29:a:307:CLA:H2A | 29:a:307:CLA:HED2 | 2.00 | 0.44 |
| 21:k:108:PHE:HE2 | 29:k:604:CLA:H42 | 1.82 | 0.44 |
| 24:g:74:GLY:O | 24:g:77:LYS:HB2 | 2.18 | 0.44 |
| 2:B:406:VAL:O | 2:B:410:ILE:HG12 | 2.17 | 0.44 |
| 29:h:306:CLA:H2 | 29:h:306:CLA:H61 | 1.67 | 0.44 |
| 29:m:602:CLA:H61 | 29:m:602:CLA:H41 | 1.56 | 0.44 |
| 20:l:40:MET:HG2 | 20:l:43:LEU:HB2 | 2.00 | 0.44 |
| 29:f:602:CLA:H143 | 29:f:602:CLA:H162 | 1.84 | 0.44 |
| 29:f:602:CLA:H3A | 29:f:602:CLA:HBA2 | 1.53 | 0.44 |
| 26:n:188:LYS:HA | 26:n:188:LYS:HD3 | 1.86 | 0.44 |
| 1:A:268:THR:HB | 12:K:16:TRP:HB2 | 1.98 | 0.44 |
| 29:A:817:CLA:HBA2 | 29:A:817:CLA:H3A | 1.56 | 0.44 |
| 29:B:820:CLA:H122 | 29:B:820:CLA:H162 | 1.73 | 0.44 |
| 16:b:80:LEU:HD13 | 29:b:305:CLA:H91 | 2.00 | 0.44 |
| 29:l:308:CLA:HBA2 | 29:l:308:CLA:H3A | 1.61 | 0.44 |
| 29:k:602:CLA:H202 | 29:k:602:CLA:H162 | 1.83 | 0.44 |
| 29:B:807:CLA:HHB | 29:B:808:CLA:HMB3 | 1.99 | 0.43 |
| 7:I:29:TYR:OH | 10:M:29:TYR:OH | 2.24 | 0.43 |
| 20:l:82:ARG:HA | 20:l:85:MET:HE3 | 1.98 | 0.43 |
| 2:B:711:HIS:HE1 | 29:B:837:CLA:C4D | 2.31 | 0.43 |
| 29:a:307:CLA:HAB | 29:R:203:CLA:H61 | 1.99 | 0.43 |
| 29:m:603:CLA:HBA1 | 29:m:603:CLA:H3A | 1.67 | 0.43 |
| 22:i:41:SER:OG | 22:i:44:VAL:O | 2.35 | 0.43 |
| 2:B:669:TYR:OH | 29:B:804:CLA:OBD | 2.28 | 0.43 |
| 40:s:401:KC2:C4C | 40:s:404:KC2:CMA | 2.96 | 0.43 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 15:a:205:GLN:NE2 | 41:a:404:HOH:O | 2.51 | 0.43 |
| 29:i:306:CLA:HBA2 | 29:i:306:CLA:H3A | 1.47 | 0.43 |
| 1:A:300:HIS:HE1 | 29:A:818:CLA:NA | 2.14 | 0.43 |
| 29:A:818:CLA:H3A | 29:A:818:CLA:HBA2 | 1.67 | 0.43 |
| 2:B:128:MET:HE3 | 29:B:813:CLA:HMA2 | 2.01 | 0.43 |
| 37:F:206:LMG:H331 | 16:b:127:LEU:HD22 | 2.00 | 0.43 |
| 13:s:151:LEU:HD23 | 37:b:319:LMG:H342 | 2.00 | 0.43 |
| 14:c:135:ILE:HG21 | 29:c:307:CLA:HBC2 | 2.00 | 0.43 |
| 29:b:309:CLA:H102 | 29:n:608:CLA:H203 | 2.00 | 0.43 |
| 22:i:98:GLN:OE1 | 29:i:305:CLA:NA | 2.51 | 0.43 |
| 29:n:607:CLA:H141 | 31:n:619:LHG:H331 | 1.99 | 0.43 |
| 1:A:263:LEU:HD12 | 29:A:814:CLA:H12 | 2.01 | 0.43 |
| 1:A:298:HIS:HE1 | 29:A:816:CLA:C4D | 2.32 | 0.43 |
| 29:m:613:CLA:H2A | 29:m:613:CLA:HED2 | 2.00 | 0.43 |
| 19:e:172:ARG:HA | 19:e:175:MET:HE3 | 2.01 | 0.43 |
| 29:e:301:CLA:H3A | 29:e:301:CLA:HBA2 | 1.51 | 0.43 |
| 20:l:132:PHE:HA | 20:l:139:LEU:HD11 | 2.00 | 0.43 |
| 29:f:613:CLA:H43 | 29:g:323:CLA:H3A | 1.99 | 0.43 |
| 22:i:58:VAL:HG11 | 22:i:177:GLU:HB3 | 2.01 | 0.43 |
| 18:j:183:ARG:HA | 18:j:186:MET:HE3 | 2.00 | 0.43 |
| 26:n:38:LEU:HB3 | 26:n:39:TYR:H | 1.76 | 0.43 |
| 26:n:212:ILE:HG22 | 29:n:613:CLA:HED3 | 1.99 | 0.43 |
| 1:A:410:HIS:HA | 1:A:413:ILE:HD12 | 2.00 | 0.43 |
| 9:L:43:PRO:HB3 | 9:L:110:LEU:HD23 | 2.00 | 0.43 |
| 26:n:94:ARG:HA | 26:n:97:MET:HE3 | 2.00 | 0.43 |
| 29:Q:302:CLA:H162 | 29:Q:302:CLA:H121 | 1.87 | 0.43 |
| 1:A:179:PHE:HE1 | 33:A:855:LMU:H6E | 1.82 | 0.43 |
| 2:B:256:PHE:CD1 | 29:B:816:CLA:HBB1 | 2.54 | 0.43 |
| 2:B:591:PHE:HE2 | 29:B:803:CLA:H72 | 1.84 | 0.43 |
| 29:c:308:CLA:H112 | 29:c:308:CLA:H71 | 1.85 | 0.43 |
| 29:a:302:CLA:HBC2 | 16:b:132:PHE:HZ | 1.83 | 0.43 |
| 18:j:80:LEU:HD13 | 18:j:155:GLY:HA3 | 2.01 | 0.43 |
| 29:n:610:CLA:H91 | 29:n:610:CLA:H111 | 1.86 | 0.43 |
| 2:B:400:GLU:HA | 2:B:403:LYS:HE3 | 2.00 | 0.43 |
| 26:n:58:PRO:HG3 | 26:n:72:ASP:HB3 | 2.01 | 0.43 |
| 29:B:815:CLA:H93 | 25:R:107:ILE:HG13 | 2.00 | 0.43 |
| 29:B:817:CLA:H142 | 29:B:817:CLA:H112 | 1.78 | 0.43 |
| 29:a:307:CLA:H111 | 29:a:307:CLA:H91 | 1.75 | 0.43 |
| 29:b:303:CLA:HBA2 | 29:b:303:CLA:H3A | 1.54 | 0.43 |
| 29:k:608:CLA:H93 | 29:k:608:CLA:H111 | 1.90 | 0.43 |
| 18:j:164:PHE:HD2 | 29:j:310:CLA:H11 | 1.83 | 0.43 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 6:F:78:ASN:OD1 | 6:F:82:ARG:NH1 | 2.52 | 0.43 |
| 13:s:226:PRO:HG3 | 16:b:90:VAL:HG22 | 2.00 | 0.43 |
| 31:a:301:LHG:HC92 | 29:a:307:CLA:HBA1 | 2.01 | 0.43 |
| 20:l:180:ARG:HA | 20:l:183:MET:HE3 | 2.00 | 0.43 |
| 21:k:121:ILE:HD11 | 21:k:208:VAL:HG22 | 1.99 | 0.43 |
| 1:A:607:VAL:HG21 | 28:A:801:CL0:H69 | 2.00 | 0.42 |
| 29:A:838:CLA:H43 | 29:K:101:CLA:H71 | 2.00 | 0.42 |
| 29:B:838:CLA:H8 | 29:B:838:CLA:H122 | 1.69 | 0.42 |
| 15:a:143:TYR:HH | 31:a:301:LHG:H02 | 1.55 | 0.42 |
| 29:b:306:CLA:H171 | 38:b:317:II0:C40 | 2.49 | 0.42 |
| 1:A:526:MET:HG2 | 1:A:620:VAL:HG13 | 2.00 | 0.42 |
| 2:B:274:HIS:HE1 | 29:B:815:CLA:C4D | 2.32 | 0.42 |
| 6:F:150:VAL:HG21 | 37:F:208:LMG:H112 | 2.01 | 0.42 |
| 29:a:308:CLA:H192 | 29:a:308:CLA:H161 | 1.87 | 0.42 |
| 29:m:603:CLA:H61 | 29:m:603:CLA:H2 | 1.77 | 0.42 |
| 29:A:835:CLA:H51 | 29:A:835:CLA:H11 | 1.81 | 0.42 |
| 2:B:44:LYS:HD2 | 10:M:28:LEU:HD23 | 2.01 | 0.42 |
| 9:L:57[B]:PHE:CZ | 29:L:203:CLA:HBB1 | 2.54 | 0.42 |
| 9:L:140:ASN:HB3 | 29:g:309:CLA:HAA2 | 2.01 | 0.42 |
| 29:K:101:CLA:H11 | 29:K:101:CLA:H51 | 1.91 | 0.42 |
| 31:s:408:LHG:H242 | 29:m:607:CLA:HMB3 | 2.01 | 0.42 |
| 14:c:197:GLN:HA | 14:c:200:VAL:HG22 | 2.01 | 0.42 |
| 31:c:320:LHG:H152 | 31:c:320:LHG:H182 | 1.85 | 0.42 |
| 29:b:305:CLA:H143 | 29:b:305:CLA:H161 | 1.90 | 0.42 |
| 19:e:184:GLN:HE21 | 19:e:184:GLN:HB2 | 1.69 | 0.42 |
| 2:B:304:LEU:HD11 | 29:B:822:CLA:HMC3 | 2.01 | 0.42 |
| 6:F:106:HIS:HA | 8:J:42:MET:HE1 | 2.01 | 0.42 |
| 17:h:154:PHE:HB2 | 17:h:157:GLN:HB2 | 2.00 | 0.42 |
| 29:k:603:CLA:H3A | 29:k:603:CLA:HBA1 | 1.75 | 0.42 |
| 23:d:42:ILE:HD12 | 23:d:45:LEU:HD13 | 2.00 | 0.42 |
| 29:A:802:CLA:H3A | 29:A:802:CLA:C2 | 2.50 | 0.42 |
| 29:A:822:CLA:H62 | 29:A:822:CLA:H41 | 1.73 | 0.42 |
| 16:b:88:GLN:HG2 | 29:b:305:CLA:C1D | 2.50 | 0.42 |
| 17:h:81:ARG:HA | 17:h:84:MET:HE3 | 2.01 | 0.42 |
| 18:f:201:LYS:NZ | 18:f:209:ASN:O | 2.48 | 0.42 |
| 1:A:405:VAL:HG11 | 1:A:598:LEU:HG | 2.02 | 0.42 |
| 2:B:325:LEU:HD13 | 2:B:331:PHE:HD2 | 1.84 | 0.42 |
| 29:B:816:CLA:H3A | 29:B:816:CLA:HBA2 | 1.45 | 0.42 |
| 29:s:402:CLA:H142 | 29:s:402:CLA:H61 | 2.02 | 0.42 |
| 29:c:305:CLA:C4B | 29:b:311:CLA:H2 | 2.50 | 0.42 |
| 29:a:303:CLA:H102 | 29:a:303:CLA:H62 | 1.81 | 0.42 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 19:e:175:MET:SD | 29:e:302:CLA:HAB | 2.59 | 0.42 |
| 18:f:144:LEU:HA | 18:f:147:THR:HG22 | 2.01 | 0.42 |
| 18:j:45:LEU:HD23 | 18:j:45:LEU:HA | 1.90 | 0.42 |
| 29:g:304:CLA:H91 | 29:g:304:CLA:H112 | 1.86 | 0.42 |
| 1:A:398:TRP:HB3 | 29:A:827:CLA:HMC3 | 2.02 | 0.42 |
| 1:A:428:LEU:HD13 | 29:A:823:CLA:C1C | 2.50 | 0.42 |
| 1:A:579:GLY:HA2 | 2:B:561:PRO:HD3 | 2.01 | 0.42 |
| 29:A:827:CLA:H122 | 29:A:827:CLA:H8 | 1.85 | 0.42 |
| 29:A:837:CLA:H171 | 8:J:24:ALA:HB2 | 2.01 | 0.42 |
| 2:B:325:LEU:HD13 | 2:B:331:PHE:CD2 | 2.54 | 0.42 |
| 2:B:518:ILE:HG12 | 2:B:592:TYR:HB2 | 2.01 | 0.42 |
| 29:s:406:CLA:H43 | 29:m:613:CLA:H112 | 2.02 | 0.42 |
| 29:m:610:CLA:H41 | 29:m:610:CLA:H62 | 1.70 | 0.42 |
| 22:i:63:PHE:HE1 | 29:i:302:CLA:HBC3 | 1.84 | 0.42 |
| 22:i:149:MET:HE3 | 22:i:154:ARG:HH22 | 1.84 | 0.42 |
| 36:j:319:DGD:HBN1 | 36:j:319:DGD:HBG2 | 1.79 | 0.42 |
| 2:B:90:ILE:HB | 2:B:111:PRO:HB2 | 2.01 | 0.42 |
| 9:L:149:MET:HE3 | 9:L:149:MET:HB3 | 1.94 | 0.42 |
| 29:c:301:CLA:H2 | 31:c:316:LHG:HC61 | 2.00 | 0.42 |
| 29:h:301:CLA:H143 | 29:h:301:CLA:H161 | 1.91 | 0.42 |
| 29:l:306:CLA:H111 | 29:l:306:CLA:H152 | 1.88 | 0.42 |
| 29:g:312:CLA:HBD | 40:g:313:KC2:OBD | 2.19 | 0.42 |
| 27:Q:194:LYS:O | 27:Q:197:MET:HB2 | 2.19 | 0.42 |
| 29:B:806:CLA:H192 | 29:B:806:CLA:H161 | 1.88 | 0.42 |
| 29:B:822:CLA:H62 | 29:B:822:CLA:H41 | 1.77 | 0.42 |
| 11:O:59:LEU:HA | 11:O:60:PRO:HD3 | 1.93 | 0.42 |
| 13:s:214:LEU:HD21 | 29:b:306:CLA:H61 | 2.01 | 0.42 |
| 16:b:72:LEU:HD23 | 16:b:72:LEU:HA | 1.91 | 0.42 |
| 29:l:301:CLA:H12 | 29:l:301:CLA:H52 | 1.79 | 0.42 |
| 24:g:88:ARG:HA | 24:g:91:MET:HE3 | 2.01 | 0.42 |
| 28:A:801:CL0:H49 | 28:A:801:CL0:H41 | 1.77 | 0.42 |
| 29:A:838:CLA:H112 | 29:A:838:CLA:H91 | 1.81 | 0.42 |
| 29:A:851:CLA:OBD | 2:B:422:SER:OG | 2.29 | 0.42 |
| 29:B:825:CLA:HBC3 | 36:B:844:DGD:HBV2 | 2.01 | 0.42 |
| 9:L:135:TYR:O | 9:L:139:SER:OG | 2.29 | 0.42 |
| 29:h:312:CLA:H62 | 29:h:312:CLA:H41 | 1.87 | 0.42 |
| 29:e:302:CLA:H3A | 29:e:302:CLA:HBA2 | 1.42 | 0.42 |
| 31:f:619:LHG:H152 | 31:f:619:LHG:H121 | 1.79 | 0.42 |
| 22:i:137:HIS:NE2 | 40:i:318:KC2:NA | 2.68 | 0.42 |
| 1:A:503:ASN:HB2 | 29:A:838:CLA:HED2 | 2.01 | 0.41 |
| 29:B:834:CLA:H91 | 29:B:834:CLA:H111 | 1.73 | 0.41 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 18:m:186:MET:SD | 29:m:602:CLA:HAB | 2.60 | 0.41 |
| 31:m:619:LHG:H241 | 31:m:619:LHG:H271 | 1.83 | 0.41 |
| 26:n:40:LYS:HB2 | 26:n:44:MET:HB2 | 2.02 | 0.41 |
| 30:B:843:PQN:H222 | 30:B:843:PQN:H261 | 1.81 | 0.41 |
| 37:F:206:LMG:H132 | 15:a:68:PRO:HB2 | 2.03 | 0.41 |
| 14:c:149:THR:OG1 | 14:c:154:ARG:NH1 | 2.50 | 0.41 |
| 15:a:193:HIS:CD2 | 29:a:312:CLA:NA | 2.87 | 0.41 |
| 18:m:88:LEU:HB3 | 29:m:604:CLA:HAB | 2.01 | 0.41 |
| 20:l:140:THR:OG1 | 20:l:143:ASP:OD1 | 2.28 | 0.41 |
| 18:f:132:TRP:CH2 | 29:f:606:CLA:HBB1 | 2.55 | 0.41 |
| 29:g:305:CLA:HBA1 | 29:g:305:CLA:H3A | 1.86 | 0.41 |
| 29:g:312:CLA:H11 | 29:g:312:CLA:H51 | 1.85 | 0.41 |
| 1:A:488:TRP:CE2 | 1:A:492:ILE:HD11 | 2.54 | 0.41 |
| 29:B:812:CLA:H2 | 29:B:812:CLA:H62 | 1.69 | 0.41 |
| 29:B:840:CLA:H141 | 29:B:840:CLA:H161 | 1.83 | 0.41 |
| 9:L:144:LEU:HD11 | 31:g:301:LHG:HC91 | 2.02 | 0.41 |
| 29:O:202:CLA:H143 | 29:O:202:CLA:H111 | 1.83 | 0.41 |
| 1:A:75:SER:OG | 1:A:181:TYR:HB2 | 2.20 | 0.41 |
| 1:A:129:GLY:O | 1:A:136:GLN:HA | 2.19 | 0.41 |
| 1:A:428:LEU:HB3 | 29:A:823:CLA:HMC2 | 2.01 | 0.41 |
| 1:A:453:HIS:HE1 | 29:A:831:CLA:NA | 2.12 | 0.41 |
| 30:A:841:PQN:H262 | 30:A:841:PQN:H222 | 1.71 | 0.41 |
| 29:B:819:CLA:H41 | 29:B:819:CLA:H62 | 1.75 | 0.41 |
| 11:O:73:THR:HG22 | 31:f:619:LHG:H241 | 2.02 | 0.41 |
| 29:s:403:CLA:H142 | 29:s:403:CLA:H111 | 1.83 | 0.41 |
| 16:b:53:PHE:HE1 | 29:b:302:CLA:HBC3 | 1.85 | 0.41 |
| 29:g:311:CLA:H143 | 29:g:311:CLA:H161 | 1.91 | 0.41 |
| 29:n:603:CLA:HMC3 | 29:n:607:CLA:HBB2 | 2.01 | 0.41 |
| 1:A:150:ALA:HB2 | 1:A:380:PRO:HD2 | 2.02 | 0.41 |
| 1:A:539:HIS:HE1 | 29:A:835:CLA:ND | 2.16 | 0.41 |
| 1:A:743:TRP:NE1 | 29:A:827:CLA:O1A | 2.43 | 0.41 |
| 11:O:69:LYS:HB3 | 11:O:73:THR:OG1 | 2.20 | 0.41 |
| 29:k:609:CLA:HBA2 | 29:k:609:CLA:H3A | 1.58 | 0.41 |
| 23:d:196:MET:O | 23:d:199:TYR:HB3 | 2.20 | 0.41 |
| 1:A:355:LEU:HD11 | 29:A:829:CLA:HBB1 | 2.02 | 0.41 |
| 29:A:832:CLA:H2A | 29:A:832:CLA:HED2 | 2.01 | 0.41 |
| 14:c:170:GLU:O | 14:c:173:LEU:N | 2.53 | 0.41 |
| 16:b:187:HIS:HB2 | 29:b:311:CLA:HBC3 | 2.02 | 0.41 |
| 29:b:310:CLA:HBB1 | 38:b:314:II0:C42 | 2.50 | 0.41 |
| 29:d:313:CLA:H2A | 29:d:313:CLA:HED2 | 2.02 | 0.41 |
| 2:B:272:ILE:HG23 | 29:B:817:CLA:HMA3 | 2.02 | 0.41 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 2:B:459:ALA:HB1 | 29:B:833:CLA:HBD | 2.03 | 0.41 |
| 29:B:819:CLA:H3A | 29:B:819:CLA:HBA2 | 1.58 | 0.41 |
| 16:b:184:GLY:O | 16:b:188:GLN:HG3 | 2.20 | 0.41 |
| 19:e:44:PRO:HG2 | 19:e:47:LEU:HD22 | 2.02 | 0.41 |
| 24:g:247:VAL:HG11 | 29:g:302:CLA:H12 | 2.02 | 0.41 |
| 29:A:804:CLA:HBA1 | 29:A:804:CLA:H3A | 1.79 | 0.41 |
| 6:F:93:ASP:OD1 | 6:F:93:ASP:N | 2.52 | 0.41 |
| 29:c:303:CLA:H52 | 29:c:303:CLA:HED3 | 2.02 | 0.41 |
| 17:h:128:ILE:HD11 | 17:h:132:ARG:HG2 | 2.03 | 0.41 |
| 31:i:317:LHG:HC82 | 31:i:317:LHG:H111 | 1.93 | 0.41 |
| 29:R:203:CLA:H11 | 29:R:203:CLA:H51 | 1.85 | 0.41 |
| 1:A:172:LEU:HD23 | 1:A:172:LEU:HA | 1.96 | 0.41 |
| 1:A:714:PRO:HG2 | 1:A:718:PRO:HD3 | 2.02 | 0.41 |
| 29:A:804:CLA:H152 | 29:A:804:CLA:H111 | 1.93 | 0.41 |
| 29:A:833:CLA:H61 | 29:A:833:CLA:H41 | 1.85 | 0.41 |
| 29:B:825:CLA:H141 | 36:B:844:DGD:HAV1 | 2.02 | 0.41 |
| 9:L:45:LEU:HD13 | 24:g:70:LEU:HD21 | 2.03 | 0.41 |
| 11:O:53:TRP:CH2 | 11:O:106:GLY:HA3 | 2.56 | 0.41 |
| 14:c:155:GLU:HB2 | 14:c:158:ASP:HB2 | 2.03 | 0.41 |
| 37:c:317:LMG:H212 | 31:c:320:LHG:H341 | 2.03 | 0.41 |
| 29:m:610:CLA:H3A | 29:m:610:CLA:HBA2 | 1.71 | 0.41 |
| 21:k:208:VAL:HG21 | 38:k:618:II0:C28 | 2.51 | 0.41 |
| 29:i:308:CLA:H3A | 29:i:308:CLA:HBA2 | 1.70 | 0.41 |
| 18:j:198:ILE:HG13 | 29:j:314:CLA:HED3 | 2.03 | 0.41 |
| 24:g:174:ASP:OD1 | 38:g:317:II0:O01 | 2.39 | 0.41 |
| 24:g:208:HIS:NE2 | 40:g:314:KC2:NA | 2.69 | 0.41 |
| 25:R:116:TRP:HE1 | 29:R:203:CLA:C3B | 2.34 | 0.41 |
| 29:n:608:CLA:HBB2 | 37:n:620:LMG:H342 | 2.03 | 0.41 |
| 27:Q:110:LYS:HD2 | 27:Q:110:LYS:HA | 1.79 | 0.41 |
| 29:A:803:CLA:H61 | 29:A:803:CLA:H41 | 1.85 | 0.41 |
| 29:A:810:CLA:H91 | 29:A:810:CLA:H111 | 1.82 | 0.41 |
| 30:A:841:PQN:H112 | 30:A:841:PQN:H142 | 1.86 | 0.41 |
| 2:B:166:TRP:CZ2 | 29:B:810:CLA:HHB | 2.55 | 0.41 |
| 2:B:344:THR:HG23 | 2:B:378:ALA:HB2 | 2.03 | 0.41 |
| 29:B:819:CLA:H193 | 21:k:153:VAL:HG11 | 2.02 | 0.41 |
| 12:K:12:GLN:NE2 | 12:K:13:THR:O | 2.54 | 0.41 |
| 19:e:89:LEU:HD23 | 19:e:89:LEU:HA | 1.88 | 0.41 |
| 1:A:94:HIS:HE1 | 29:A:806:CLA:C1A | 2.33 | 0.40 |
| 1:A:249:ARG:HH22 | 29:A:814:CLA:H2 | 1.86 | 0.40 |
| 29:a:305:CLA:H161 | 29:a:305:CLA:H141 | 1.90 | 0.40 |
| 16:b:200:LEU:HD23 | 16:b:200:LEU:HA | 1.95 | 0.40 |

*Continued on next page...*

*Continued from previous page...*

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---|---|---|---|
| 29:b:312:CLA:H162 | 29:b:312:CLA:H141 | 1.87 | 0.40 |
| 29:h:305:CLA:HBA2 | 29:h:305:CLA:H3A | 1.73 | 0.40 |
| 29:n:609:CLA:H143 | 29:n:609:CLA:H111 | 1.91 | 0.40 |
| 29:A:820:CLA:H102 | 29:A:820:CLA:H61 | 1.86 | 0.40 |
| 2:B:298:HIS:HE1 | 29:B:819:CLA:C4A | 2.35 | 0.40 |
| 8:J:22:PHE:CZ | 8:J:26:PHE:HE2 | 2.39 | 0.40 |
| 29:K:101:CLA:H143 | 29:K:101:CLA:H161 | 1.90 | 0.40 |
| 16:b:71:GLU:HG2 | 16:b:172:ILE:HD11 | 2.04 | 0.40 |
| 22:i:201:THR:HB | 22:i:203:LYS:HD2 | 2.03 | 0.40 |
| 26:n:115:ALA:HA | 29:n:605:CLA:HBC3 | 2.02 | 0.40 |
| 9:L:54:HIS:HE1 | 29:L:203:CLA:C4D | 2.34 | 0.40 |
| 29:L:202:CLA:HED2 | 29:L:202:CLA:H2A | 2.03 | 0.40 |
| 29:b:310:CLA:H171 | 29:m:602:CLA:H101 | 2.04 | 0.40 |
| 21:k:162:THR:OG1 | 21:k:168:ARG:NH1 | 2.45 | 0.40 |
| 25:R:116:TRP:HA | 25:R:119:HIS:HD1 | 1.85 | 0.40 |
| 29:A:835:CLA:H112 | 29:A:835:CLA:H151 | 1.92 | 0.40 |
| 2:B:149:LEU:HD22 | 10:M:21:ALA:HA | 2.03 | 0.40 |
| 29:B:831:CLA:H101 | 29:B:832:CLA:HBB1 | 2.02 | 0.40 |
| 29:a:308:CLA:H101 | 29:a:310:CLA:H8 | 2.04 | 0.40 |
| 29:e:306:CLA:H71 | 29:e:306:CLA:H111 | 1.82 | 0.40 |
| 23:d:59:GLY:HA3 | 23:d:182:ILE:HG21 | 2.03 | 0.40 |
| 29:g:304:CLA:H41 | 29:g:305:CLA:HBA1 | 2.03 | 0.40 |
| 40:g:314:KC2:CAA | 40:g:315:KC2:C1C | 2.99 | 0.40 |
| 29:n:608:CLA:H3A | 29:n:608:CLA:HBA2 | 1.54 | 0.40 |
| 28:A:801:CL0:H70 | 28:A:801:CL0:H61 | 1.92 | 0.40 |
| 29:A:827:CLA:H142 | 29:A:829:CLA:H162 | 2.04 | 0.40 |
| 29:A:838:CLA:H141 | 29:A:838:CLA:H162 | 1.95 | 0.40 |
| 31:A:848:LHG:H111 | 31:A:848:LHG:H142 | 1.81 | 0.40 |
| 15:a:76:ASN:O | 15:a:80:MET:HG2 | 2.21 | 0.40 |
| 16:b:44:ASP:N | 16:b:44:ASP:OD1 | 2.53 | 0.40 |
| 16:b:183:SER:HB3 | 39:b:316:IHT:C40 | 2.52 | 0.40 |
| 21:k:55:PRO:HD2 | 21:k:69:ASP:HB3 | 2.03 | 0.40 |
| 29:k:610:CLA:H3A | 29:k:610:CLA:HBA2 | 1.40 | 0.40 |
| 22:i:86:ARG:HA | 22:i:89:MET:HE3 | 2.04 | 0.40 |
| 18:j:42:VAL:HG11 | 18:j:45:LEU:HD12 | 2.04 | 0.40 |
| 18:j:170:THR:HG22 | 18:j:173:ARG:HH21 | 1.86 | 0.40 |
| 29:j:304:CLA:H12 | 36:j:319:DGD:HG12 | 2.04 | 0.40 |
| 29:j:304:CLA:HBA1 | 29:j:304:CLA:H3A | 1.83 | 0.40 |
| 29:g:306:CLA:H92 | 38:g:321:II0:C33 | 2.51 | 0.40 |
| 26:n:45:GLN:NE2 | 26:n:190:LEU:HD22 | 2.37 | 0.40 |
| 29:n:604:CLA:H41 | 29:n:604:CLA:H62 | 1.72 | 0.40 |

There are no symmetry-related clashes.

## 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 | |
|---|---|---|---|---|---|---|---|
| 1 | A | 740/752 (98%) | 740 (100%) | 0 | 0 | 100 | 100 |
| 2 | B | 732/734 (100%) | 730 (100%) | 2 (0%) | 0 | 100 | 100 |
| 3 | C | 78/81 (96%) | 77 (99%) | 0 | 1 (1%) | 10 | 6 |
| 4 | D | 136/141 (96%) | 136 (100%) | 0 | 0 | 100 | 100 |
| 5 | E | 58/64 (91%) | 58 (100%) | 0 | 0 | 100 | 100 |
| 6 | F | 159/188 (85%) | 159 (100%) | 0 | 0 | 100 | 100 |
| 7 | I | 31/33 (94%) | 31 (100%) | 0 | 0 | 100 | 100 |
| 8 | J | 40/42 (95%) | 40 (100%) | 0 | 0 | 100 | 100 |
| 9 | L | 150/153 (98%) | 150 (100%) | 0 | 0 | 100 | 100 |
| 10 | M | 28/30 (93%) | 28 (100%) | 0 | 0 | 100 | 100 |
| 11 | O | 93/153 (61%) | 92 (99%) | 0 | 1 (1%) | 12 | 7 |
| 12 | K | 64/86 (74%) | 64 (100%) | 0 | 0 | 100 | 100 |
| 13 | s | 152/302 (50%) | 151 (99%) | 1 (1%) | 0 | 100 | 100 |
| 14 | c | 168/215 (78%) | 168 (100%) | 0 | 0 | 100 | 100 |
| 15 | a | 170/217 (78%) | 170 (100%) | 0 | 0 | 100 | 100 |
| 16 | b | 176/236 (75%) | 176 (100%) | 0 | 0 | 100 | 100 |
| 17 | h | 160/229 (70%) | 160 (100%) | 0 | 0 | 100 | 100 |
| 18 | f | 172/212 (81%) | 171 (99%) | 1 (1%) | 0 | 100 | 100 |
| 18 | j | 171/212 (81%) | 170 (99%) | 1 (1%) | 0 | 100 | 100 |
| 18 | m | 172/212 (81%) | 171 (99%) | 1 (1%) | 0 | 100 | 100 |
| 19 | e | 162/210 (77%) | 162 (100%) | 0 | 0 | 100 | 100 |
| 20 | l | 173/175 (99%) | 173 (100%) | 0 | 0 | 100 | 100 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|---|---|---|---|---|---|---|---|
| 21 | k | 187/232 (81%) | 185 (99%) | 2 (1%) | 0 | 100 | 100 |
| 22 | i | 178/200 (89%) | 177 (99%) | 1 (1%) | 0 | 100 | 100 |
| 23 | d | 162/219 (74%) | 161 (99%) | 1 (1%) | 0 | 100 | 100 |
| 24 | g | 214/216 (99%) | 214 (100%) | 0 | 0 | 100 | 100 |
| 25 | R | 88/135 (65%) | 88 (100%) | 0 | 0 | 100 | 100 |
| 26 | n | 179/220 (81%) | 179 (100%) | 0 | 0 | 100 | 100 |
| 27 | Q | 141/233 (60%) | 140 (99%) | 1 (1%) | 0 | 100 | 100 |
| All | All | 5134/6132 (84%) | 5121 (100%) | 11 (0%) | 2 (0%) | 100 | 100 |

All (2) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|---|---|---|---|
| 3 | C | 62 | PHE |
| 11 | O | 87 | PRO |

### 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 | |
|---|---|---|---|---|---|---|
| 1 | A | 605/614 (98%) | 605 (100%) | 0 | 100 | 100 |
| 2 | B | 595/594 (100%) | 595 (100%) | 0 | 100 | 100 |
| 3 | C | 67/68 (98%) | 67 (100%) | 0 | 100 | 100 |
| 4 | D | 115/117 (98%) | 115 (100%) | 0 | 100 | 100 |
| 5 | E | 54/58 (93%) | 54 (100%) | 0 | 100 | 100 |
| 6 | F | 132/156 (85%) | 132 (100%) | 0 | 100 | 100 |
| 7 | I | 27/27 (100%) | 27 (100%) | 0 | 100 | 100 |
| 8 | J | 39/39 (100%) | 39 (100%) | 0 | 100 | 100 |
| 9 | L | 125/126 (99%) | 123 (98%) | 2 (2%) | 58 | 64 |
| 10 | M | 25/25 (100%) | 25 (100%) | 0 | 100 | 100 |
| 11 | O | 74/117 (63%) | 74 (100%) | 0 | 100 | 100 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|---|---|---|---|---|---|---|
| 12 | K | 51/65 (78%) | 51 (100%) | 0 | 100 | 100 |
| 13 | s | 119/228 (52%) | 119 (100%) | 0 | 100 | 100 |
| 14 | c | 139/171 (81%) | 139 (100%) | 0 | 100 | 100 |
| 15 | a | 139/167 (83%) | 139 (100%) | 0 | 100 | 100 |
| 16 | b | 136/174 (78%) | 136 (100%) | 0 | 100 | 100 |
| 17 | h | 124/167 (74%) | 124 (100%) | 0 | 100 | 100 |
| 18 | f | 134/161 (83%) | 134 (100%) | 0 | 100 | 100 |
| 18 | j | 135/161 (84%) | 135 (100%) | 0 | 100 | 100 |
| 18 | m | 136/161 (84%) | 136 (100%) | 0 | 100 | 100 |
| 19 | e | 130/164 (79%) | 129 (99%) | 1 (1%) | 79 | 83 |
| 20 | l | 136/137 (99%) | 136 (100%) | 0 | 100 | 100 |
| 21 | k | 143/178 (80%) | 143 (100%) | 0 | 100 | 100 |
| 22 | i | 142/156 (91%) | 141 (99%) | 1 (1%) | 81 | 86 |
| 23 | d | 125/165 (76%) | 125 (100%) | 0 | 100 | 100 |
| 24 | g | 169/170 (99%) | 169 (100%) | 0 | 100 | 100 |
| 25 | R | 72/104 (69%) | 72 (100%) | 0 | 100 | 100 |
| 26 | n | 141/167 (84%) | 141 (100%) | 0 | 100 | 100 |
| 27 | Q | 106/169 (63%) | 106 (100%) | 0 | 100 | 100 |
| All | All | 4135/4806 (86%) | 4131 (100%) | 4 (0%) | 92 | 95 |

All (4) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|---|---|---|---|
| 9 | L | 57[A] | PHE |
| 9 | L | 57[B] | PHE |
| 19 | e | 184 | GLN |
| 22 | i | 218 | PHE |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (33) such sidechains are listed below:

| Mol | Chain | Res | Type |
|---|---|---|---|
| 1 | A | 640 | GLN |
| 2 | B | 40 | ASN |
| 2 | B | 75 | GLN |
| 2 | B | 486 | ASN |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type |
|---|---|---|---|
| 2 | B | 490 | ASN |
| 3 | C | 16 | GLN |
| 5 | E | 19 | GLN |
| 13 | s | 138 | HIS |
| 13 | s | 141 | ASN |
| 13 | s | 146 | HIS |
| 13 | s | 170 | GLN |
| 13 | s | 240 | HIS |
| 15 | a | 166 | ASN |
| 16 | b | 100 | GLN |
| 18 | m | 175 | GLN |
| 18 | m | 181 | ASN |
| 19 | e | 65 | ASN |
| 20 | l | 193 | GLN |
| 20 | l | 198 | GLN |
| 20 | l | 211 | ASN |
| 18 | f | 175 | GLN |
| 18 | f | 181 | ASN |
| 22 | i | 183 | ASN |
| 22 | i | 216 | GLN |
| 18 | j | 181 | ASN |
| 24 | g | 80 | GLN |
| 24 | g | 135 | GLN |
| 24 | g | 218 | GLN |
| 26 | n | 50 | ASN |
| 26 | n | 195 | ASN |
| 27 | Q | 109 | ASN |
| 27 | Q | 220 | GLN |
| 27 | Q | 231 | ASN |

### 5.3.3 RNA

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains

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

## 5.5 Carbohydrates

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry (i)

419 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\| > 2$ | Counts | RMSZ | $\#\|Z\| > 2$ |
| 29 | CLA | A | 820 | 41 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.47 | 6 (7%) |
| 29 | CLA | l | 307 | 20 | 65,73,73 | 1.49 | 5 (7%) | 76,113,113 | 1.44 | 8 (10%) |
| 29 | CLA | B | 819 | 2 | 65,73,73 | 1.53 | 7 (10%) | 76,113,113 | 1.64 | 10 (13%) |
| 31 | LHG | L | 209 | - | 35,35,48 | 0.68 | 0 | 38,41,54 | 1.27 | 4 (10%) |
| 29 | CLA | a | 312 | 15 | 48,56,73 | 1.72 | 6 (12%) | 55,92,113 | 1.58 | 6 (10%) |
| 29 | CLA | B | 820 | 2 | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.38 | 8 (10%) |
| 29 | CLA | j | 310 | 18 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.42 | 6 (7%) |
| 29 | CLA | L | 202 | 9 | 49,57,73 | 1.69 | 6 (12%) | 55,93,113 | 1.58 | 6 (10%) |
| 29 | CLA | A | 824 | 41 | 65,73,73 | 1.44 | 6 (9%) | 76,113,113 | 1.47 | 10 (13%) |
| 29 | CLA | i | 306 | 22 | 51,59,73 | 1.68 | 6 (11%) | 59,96,113 | 1.56 | 7 (11%) |
| 29 | CLA | l | 301 | 20 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.43 | 8 (10%) |
| 38 | II0 | e | 314 | - | 39,43,43 | 6.43 | 22 (56%) | 50,60,60 | 6.92 | 30 (60%) |
| 29 | CLA | g | 305 | 39,24 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.47 | 6 (7%) |
| 32 | WVN | R | 201 | - | 40,41,41 | 5.60 | 19 (47%) | 50,56,56 | 6.21 | 34 (68%) |
| 37 | LMG | n | 620 | - | 51,51,55 | 0.87 | 2 (3%) | 59,59,63 | 1.24 | 5 (8%) |
| 29 | CLA | c | 301 | 14 | 51,59,73 | 1.66 | 5 (9%) | 59,96,113 | 1.57 | 6 (10%) |
| 29 | CLA | g | 303 | 24 | 42,50,73 | 1.83 | 6 (14%) | 48,85,113 | 1.61 | 7 (14%) |
| 31 | LHG | a | 318 | 29 | 48,48,48 | 0.63 | 0 | 51,54,54 | 1.25 | 6 (11%) |
| 29 | CLA | g | 302 | - | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.45 | 8 (10%) |
| 29 | CLA | B | 832 | 41 | 45,53,73 | 1.79 | 7 (15%) | 52,89,113 | 1.65 | 6 (11%) |
| 38 | II0 | g | 319 | - | 39,43,43 | 6.12 | 22 (56%) | 50,60,60 | 6.94 | 29 (58%) |
| 40 | KC2 | g | 313 | - | 48,53,53 | 3.39 | 23 (47%) | 54,89,89 | 3.87 | 29 (53%) |
| 39 | IHT | O | 204 | - | 40,42,42 | 0.22 | 0 | 53,58,58 | 0.31 | 0 |
| 29 | CLA | a | 309 | 31 | 48,56,73 | 1.70 | 7 (14%) | 55,92,113 | 1.57 | 6 (10%) |
| 40 | KC2 | j | 312 | 18 | 48,53,53 | 3.39 | 21 (43%) | 54,89,89 | 3.95 | 30 (55%) |
| 29 | CLA | l | 312 | 20 | 56,64,73 | 1.59 | 7 (12%) | 65,102,113 | 1.51 | 7 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 38 | II0 | g | 321 | - | 39,43,43 | 0.23 | 0 | 50,60,60 | 0.47 | 0 |
| 29 | CLA | A | 804 | 1 | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.56 | 10 (13%) |
| 29 | CLA | g | 316 | 24 | 57,65,73 | 1.62 | 6 (10%) | 66,103,113 | 1.40 | 7 (10%) |
| 29 | CLA | B | 836 | 41 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.38 | 7 (9%) |
| 32 | WVN | L | 206 | - | 40,41,41 | 5.58 | 20 (50%) | 50,56,56 | 6.50 | 31 (62%) |
| 29 | CLA | k | 604 | 21 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.46 | 8 (10%) |
| 38 | II0 | k | 620 | - | 39,43,43 | 6.13 | 21 (53%) | 50,60,60 | 6.85 | 28 (56%) |
| 39 | IHT | c | 315 | - | 40,42,42 | 0.20 | 0 | 53,58,58 | 0.79 | 2 (3%) |
| 31 | LHG | f | 620 | 29 | 36,36,48 | 0.70 | 1 (2%) | 39,42,54 | 1.19 | 4 (10%) |
| 38 | II0 | a | 313 | - | 39,43,43 | 6.29 | 21 (53%) | 50,60,60 | 6.71 | 29 (58%) |
| 29 | CLA | B | 827 | 2 | 51,59,73 | 1.68 | 7 (13%) | 59,96,113 | 1.71 | 8 (13%) |
| 32 | WVN | e | 315 | - | 40,41,41 | 5.74 | 19 (47%) | 50,56,56 | 6.26 | 31 (62%) |
| 37 | LMG | O | 205 | - | 26,26,55 | 1.07 | 1 (3%) | 34,34,63 | 1.30 | 6 (17%) |
| 29 | CLA | m | 607 | 18 | 51,59,73 | 1.71 | 8 (15%) | 59,96,113 | 1.46 | 8 (13%) |
| 29 | CLA | h | 306 | 17 | 57,65,73 | 1.58 | 5 (8%) | 66,103,113 | 1.48 | 8 (12%) |
| 29 | CLA | B | 823 | 41 | 64,72,73 | 1.45 | 6 (9%) | 74,111,113 | 1.44 | 10 (13%) |
| 34 | SF4 | C | 101 | 3 | 0,12,12 | - | - | - | | |
| 29 | CLA | i | 302 | 22 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.43 | 8 (10%) |
| 32 | WVN | R | 202 | - | 40,41,41 | 5.74 | 19 (47%) | 50,56,56 | 6.39 | 32 (64%) |
| 38 | II0 | c | 313 | - | 39,43,43 | 6.30 | 21 (53%) | 50,60,60 | 6.91 | 29 (58%) |
| 29 | CLA | a | 304 | 15 | 51,59,73 | 1.64 | 6 (11%) | 59,96,113 | 1.54 | 6 (10%) |
| 31 | LHG | a | 301 | 29 | 48,48,48 | 0.61 | 0 | 51,54,54 | 1.23 | 6 (11%) |
| 29 | CLA | A | 810 | 1 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.33 | 7 (9%) |
| 32 | WVN | s | 407 | - | 40,41,41 | 5.72 | 19 (47%) | 50,56,56 | 6.53 | 32 (64%) |
| 38 | II0 | d | 316 | - | 39,43,43 | 6.43 | 22 (56%) | 50,60,60 | 6.81 | 30 (60%) |
| 32 | WVN | B | 849 | - | 40,41,41 | 5.67 | 20 (50%) | 50,56,56 | 6.02 | 31 (62%) |
| 29 | CLA | A | 834 | 1 | 60,68,73 | 1.48 | 6 (10%) | 70,107,113 | 1.53 | 7 (10%) |
| 29 | CLA | i | 311 | - | 60,68,73 | 1.53 | 6 (10%) | 70,107,113 | 1.43 | 7 (10%) |
| 38 | II0 | m | 618 | - | 39,43,43 | 6.48 | 21 (53%) | 50,60,60 | 6.77 | 30 (60%) |
| 29 | CLA | c | 311 | 14 | 45,53,73 | 1.78 | 6 (13%) | 52,89,113 | 1.75 | 8 (15%) |
| 29 | CLA | i | 304 | 22 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.43 | 7 (9%) |
| 29 | CLA | h | 304 | 17 | 51,59,73 | 1.62 | 6 (11%) | 59,96,113 | 1.59 | 7 (11%) |
| 29 | CLA | B | 814 | 2 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.41 | 7 (9%) |
| 32 | WVN | I | 101 | - | 40,41,41 | 5.69 | 19 (47%) | 50,56,56 | 6.28 | 32 (64%) |
| 32 | WVN | B | 848 | - | 40,41,41 | 5.58 | 19 (47%) | 50,56,56 | 6.31 | 34 (68%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 37 | LMG | F | 208 | - | 41,41,55 | 0.89 | 0 | 49,49,63 | 1.26 | 3 (6%) |
| 38 | II0 | n | 618 | - | 39,43,43 | 6.47 | 22 (56%) | 50,60,60 | 6.73 | 33 (66%) |
| 29 | CLA | b | 312 | 16 | 65,73,73 | 1.50 | 5 (7%) | 76,113,113 | 1.34 | 7 (9%) |
| 29 | CLA | n | 605 | 26 | 51,59,73 | 1.66 | 6 (11%) | 59,96,113 | 1.59 | 7 (11%) |
| 29 | CLA | A | 837 | 1 | 65,73,73 | 1.52 | 7 (10%) | 76,113,113 | 1.36 | 7 (9%) |
| 40 | KC2 | k | 612 | 21 | 48,53,53 | 1.70 | 10 (20%) | 54,89,89 | 0.94 | 1 (1%) |
| 29 | CLA | B | 818 | 41 | 65,73,73 | 1.51 | 8 (12%) | 76,113,113 | 1.38 | 8 (10%) |
| 29 | CLA | e | 306 | 19 | 65,73,73 | 1.44 | 6 (9%) | 76,113,113 | 1.40 | 7 (9%) |
| 29 | CLA | A | 811 | 1 | 54,62,73 | 1.65 | 7 (12%) | 62,99,113 | 1.44 | 6 (9%) |
| 29 | CLA | i | 308 | 22 | 65,73,73 | 1.42 | 6 (9%) | 76,113,113 | 1.45 | 6 (7%) |
| 29 | CLA | e | 310 | 41 | 55,63,73 | 1.57 | 6 (10%) | 64,101,113 | 1.59 | 7 (10%) |
| 29 | CLA | h | 312 | 41 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.38 | 7 (9%) |
| 29 | CLA | d | 310 | 23 | 41,49,73 | 1.89 | 6 (14%) | 47,84,113 | 1.70 | 9 (19%) |
| 29 | CLA | s | 402 | 13 | 65,73,73 | 1.52 | 6 (9%) | 76,113,113 | 1.46 | 12 (15%) |
| 29 | CLA | n | 603 | 26 | 51,59,73 | 1.69 | 8 (15%) | 59,96,113 | 1.48 | 7 (11%) |
| 29 | CLA | f | 604 | 18 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.59 | 9 (11%) |
| 29 | CLA | B | 824 | 2 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.43 | 7 (9%) |
| 29 | CLA | m | 613 | 18 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.38 | 7 (9%) |
| 32 | WVN | B | 846 | - | 40,41,41 | 5.64 | 20 (50%) | 50,56,56 | 6.25 | 29 (58%) |
| 29 | CLA | A | 823 | 1 | 55,63,73 | 1.61 | 7 (12%) | 64,101,113 | 1.58 | 9 (14%) |
| 29 | CLA | F | 201 | 41 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.35 | 7 (9%) |
| 29 | CLA | a | 311 | 15 | 65,73,73 | 1.51 | 7 (10%) | 76,113,113 | 1.40 | 7 (9%) |
| 29 | CLA | B | 840 | 2 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.47 | 9 (11%) |
| 29 | CLA | B | 833 | 2 | 55,63,73 | 1.58 | 6 (10%) | 64,101,113 | 1.55 | 6 (9%) |
| 29 | CLA | A | 822 | 1 | 56,64,73 | 1.59 | 6 (10%) | 65,102,113 | 1.47 | 9 (13%) |
| 38 | II0 | n | 614 | - | 39,43,43 | 0.28 | 0 | 50,60,60 | 0.88 | 3 (6%) |
| 29 | CLA | m | 605 | 18 | 42,50,73 | 1.81 | 5 (11%) | 48,85,113 | 1.72 | 8 (16%) |
| 40 | KC2 | k | 613 | - | 48,53,53 | 1.67 | 10 (20%) | 54,89,89 | 1.00 | 1 (1%) |
| 29 | CLA | A | 809 | 1 | 56,64,73 | 1.58 | 7 (12%) | 65,102,113 | 1.42 | 7 (10%) |
| 31 | LHG | A | 843 | 29 | 26,26,48 | 0.89 | 1 (3%) | 29,32,54 | 1.32 | 3 (10%) |
| 31 | LHG | j | 318 | 29 | 29,29,48 | 0.80 | 1 (3%) | 32,35,54 | 1.28 | 3 (9%) |
| 29 | CLA | b | 311 | 16 | 64,72,73 | 1.49 | 5 (7%) | 74,111,113 | 1.64 | 7 (9%) |
| 38 | II0 | j | 315 | - | 39,43,43 | 6.20 | 22 (56%) | 50,60,60 | 6.96 | 30 (60%) |
| 29 | CLA | F | 202 | 41 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.32 | 6 (7%) |
| 38 | II0 | k | 615 | - | 39,43,43 | 6.42 | 22 (56%) | 50,60,60 | 6.71 | 31 (62%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 29 | CLA | j | 305 | 18 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.51 | 9 (11%) |
| 29 | CLA | K | 101 | 41 | 65,73,73 | 1.43 | 5 (7%) | 76,113,113 | 1.50 | 10 (13%) |
| 29 | CLA | k | 605 | 21 | 45,53,73 | 1.77 | 5 (11%) | 52,89,113 | 1.72 | 8 (15%) |
| 29 | CLA | b | 306 | 41 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.45 | 9 (11%) |
| 29 | CLA | d | 303 | 23 | 51,59,73 | 1.62 | 7 (13%) | 59,96,113 | 1.66 | 7 (11%) |
| 29 | CLA | e | 308 | 31 | 46,54,73 | 1.74 | 6 (13%) | 53,90,113 | 1.56 | 6 (11%) |
| 29 | CLA | l | 310 | 31 | 61,69,73 | 1.54 | 5 (8%) | 71,108,113 | 1.40 | 7 (9%) |
| 38 | II0 | b | 317 | - | 39,43,43 | 0.22 | 0 | 50,60,60 | 0.91 | 2 (4%) |
| 29 | CLA | B | 837 | 2 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.40 | 7 (9%) |
| 29 | CLA | B | 803 | 2 | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.34 | 7 (9%) |
| 29 | CLA | i | 312 | 22 | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.49 | 9 (11%) |
| 37 | LMG | Q | 301 | - | 38,38,55 | 0.88 | 0 | 46,46,63 | 1.22 | 3 (6%) |
| 29 | CLA | j | 314 | 18 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.42 | 9 (11%) |
| 39 | IHT | f | 617 | - | 40,42,42 | 0.21 | 0 | 53,58,58 | 0.70 | 2 (3%) |
| 29 | CLA | g | 304 | 24 | 65,73,73 | 1.50 | 8 (12%) | 76,113,113 | 1.37 | 6 (7%) |
| 29 | CLA | b | 304 | 16 | 52,60,73 | 1.61 | 6 (11%) | 60,97,113 | 1.60 | 7 (11%) |
| 29 | CLA | b | 303 | 16 | 55,63,73 | 1.53 | 7 (12%) | 64,101,113 | 1.62 | 9 (14%) |
| 29 | CLA | A | 802 | - | 65,73,73 | 1.43 | 7 (10%) | 76,113,113 | 1.52 | 8 (10%) |
| 29 | CLA | b | 313 | 31 | 51,59,73 | 1.65 | 6 (11%) | 59,96,113 | 1.65 | 11 (18%) |
| 29 | CLA | g | 307 | 24 | 51,59,73 | 1.68 | 6 (11%) | 59,96,113 | 1.56 | 8 (13%) |
| 29 | CLA | L | 203 | 9 | 65,73,73 | 1.44 | 6 (9%) | 76,113,113 | 1.47 | 10 (13%) |
| 39 | IHT | g | 320 | - | 40,42,42 | 0.17 | 0 | 53,58,58 | 0.57 | 2 (3%) |
| 29 | CLA | A | 839 | 1 | 60,68,73 | 1.49 | 6 (10%) | 70,107,113 | 1.52 | 8 (11%) |
| 29 | CLA | j | 303 | 18 | 54,62,73 | 1.55 | 6 (11%) | 62,99,113 | 1.58 | 8 (12%) |
| 40 | KC2 | m | 611 | 18 | 48,53,53 | 3.40 | 20 (41%) | 54,89,89 | 3.89 | 28 (51%) |
| 29 | CLA | a | 307 | 15 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.43 | 7 (9%) |
| 29 | CLA | m | 601 | 18 | 42,50,73 | 1.83 | 6 (14%) | 48,85,113 | 1.63 | 8 (16%) |
| 29 | CLA | d | 308 | 23 | 46,54,73 | 1.74 | 5 (10%) | 53,90,113 | 1.48 | 6 (11%) |
| 29 | CLA | A | 826 | 1 | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.45 | 8 (10%) |
| 29 | CLA | f | 605 | 18 | 45,53,73 | 1.80 | 6 (13%) | 52,89,113 | 1.64 | 9 (17%) |
| 29 | CLA | c | 308 | 14 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.42 | 8 (10%) |
| 29 | CLA | g | 310 | 24 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.40 | 7 (9%) |
| 37 | LMG | F | 206 | - | 53,53,55 | 0.75 | 0 | 61,61,63 | 1.33 | 7 (11%) |
| 29 | CLA | k | 601 | 21 | 51,59,73 | 1.67 | 6 (11%) | 59,96,113 | 1.60 | 9 (15%) |
| 32 | WVN | L | 201 | - | 40,41,41 | 5.71 | 19 (47%) | 50,56,56 | 6.23 | 32 (64%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 29 | CLA | B | 830 | 2 | 50,58,73 | 1.66 | 7 (14%) | 58,95,113 | 1.58 | 10 (17%) |
| 32 | WVN | K | 103 | - | 40,41,41 | 5.63 | 19 (47%) | 50,56,56 | 6.57 | 33 (66%) |
| 39 | IHT | b | 316 | - | 40,42,42 | 0.21 | 0 | 53,58,58 | 0.78 | 1 (1%) |
| 31 | LHG | g | 301 | 29 | 44,44,48 | 0.63 | 0 | 47,50,54 | 1.25 | 5 (10%) |
| 31 | LHG | J | 104 | 29 | 32,32,48 | 0.75 | 2 (6%) | 35,38,54 | 1.24 | 3 (8%) |
| 38 | II0 | l | 317 | - | 39,43,43 | 0.21 | 0 | 50,60,60 | 0.40 | 0 |
| 38 | II0 | f | 615 | - | 39,43,43 | 6.35 | 22 (56%) | 50,60,60 | 6.70 | 29 (58%) |
| 38 | II0 | g | 317 | - | 39,43,43 | 6.51 | 21 (53%) | 50,60,60 | 6.92 | 29 (58%) |
| 29 | CLA | B | 801 | 41 | 65,73,73 | 1.52 | 8 (12%) | 76,113,113 | 1.34 | 7 (9%) |
| 31 | LHG | b | 318 | - | 48,48,48 | 0.64 | 1 (2%) | 51,54,54 | 1.25 | 6 (11%) |
| 29 | CLA | A | 830 | 1 | 60,68,73 | 1.55 | 6 (10%) | 70,107,113 | 1.46 | 8 (11%) |
| 29 | CLA | g | 312 | 31 | 54,62,73 | 1.62 | 6 (11%) | 62,99,113 | 1.49 | 6 (9%) |
| 38 | II0 | f | 614 | - | 39,43,43 | 6.26 | 22 (56%) | 50,60,60 | 6.82 | 28 (56%) |
| 29 | CLA | j | 304 | 18 | 51,59,73 | 1.65 | 7 (13%) | 59,96,113 | 1.65 | 6 (10%) |
| 40 | KC2 | i | 310 | 22 | 48,53,53 | 3.43 | 23 (47%) | 54,89,89 | 4.00 | 27 (50%) |
| 29 | CLA | f | 613 | 18 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.53 | 8 (10%) |
| 32 | WVN | J | 101 | - | 40,41,41 | 5.70 | 19 (47%) | 50,56,56 | 6.24 | 29 (58%) |
| 29 | CLA | c | 305 | 14 | 65,73,73 | 1.52 | 7 (10%) | 76,113,113 | 1.35 | 6 (7%) |
| 31 | LHG | l | 318 | 29 | 31,31,48 | 0.76 | 0 | 34,37,54 | 1.27 | 4 (11%) |
| 29 | CLA | l | 303 | 20 | 47,55,73 | 1.72 | 5 (10%) | 54,91,113 | 1.55 | 7 (12%) |
| 38 | II0 | j | 301 | - | 39,43,43 | 6.34 | 21 (53%) | 50,60,60 | 6.89 | 28 (56%) |
| 33 | LMU | B | 850 | - | 36,36,36 | 0.21 | 0 | 47,47,47 | 0.40 | 0 |
| 29 | CLA | B | 826 | 2 | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.39 | 8 (10%) |
| 32 | WVN | A | 844 | - | 40,41,41 | 5.76 | 20 (50%) | 50,56,56 | 6.18 | 33 (66%) |
| 38 | II0 | k | 618 | - | 39,43,43 | 0.27 | 0 | 50,60,60 | 0.76 | 1 (2%) |
| 30 | PQN | A | 841 | - | 34,34,34 | 2.80 | 10 (29%) | 42,45,45 | 1.98 | 5 (11%) |
| 31 | LHG | L | 208 | - | 46,46,48 | 0.66 | 2 (4%) | 49,52,54 | 1.35 | 7 (14%) |
| 29 | CLA | B | 828 | 2 | 50,58,73 | 1.69 | 8 (16%) | 58,95,113 | 1.47 | 7 (12%) |
| 31 | LHG | g | 322 | 29 | 36,36,48 | 0.73 | 1 (2%) | 39,42,54 | 1.23 | 4 (10%) |
| 38 | II0 | f | 616 | - | 39,43,43 | 6.35 | 20 (51%) | 50,60,60 | 6.73 | 28 (56%) |
| 38 | II0 | d | 315 | - | 39,43,43 | 6.50 | 22 (56%) | 50,60,60 | 6.45 | 29 (58%) |
| 29 | CLA | m | 603 | 18 | 59,67,73 | 1.51 | 6 (10%) | 68,105,113 | 1.52 | 6 (8%) |
| 40 | KC2 | c | 310 | 14 | 48,53,53 | 3.33 | 22 (45%) | 54,89,89 | 3.93 | 27 (50%) |
| 29 | CLA | B | 811 | 2 | 55,63,73 | 1.61 | 7 (12%) | 64,101,113 | 1.46 | 7 (10%) |
| 40 | KC2 | n | 612 | 26 | 48,53,53 | 1.69 | 10 (20%) | 54,89,89 | 0.96 | 1 (1%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 38 | II0 | i | 313 | - | 39,43,43 | 6.26 | 21 (53%) | 50,60,60 | 7.02 | 30 (60%) |
| 29 | CLA | n | 604 | 26 | 60,68,73 | 1.53 | 5 (8%) | 70,107,113 | 1.62 | 10 (14%) |
| 39 | IHT | a | 316 | - | 40,42,42 | 0.20 | 0 | 53,58,58 | 0.51 | 0 |
| 29 | CLA | d | 309 | 23 | 41,49,73 | 1.82 | 7 (17%) | 47,84,113 | 1.73 | 8 (17%) |
| 29 | CLA | A | 825 | 41 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.43 | 10 (13%) |
| 29 | CLA | j | 311 | 31 | 61,69,73 | 1.52 | 6 (9%) | 71,108,113 | 1.41 | 7 (9%) |
| 38 | II0 | k | 617 | - | 39,43,43 | 0.27 | 0 | 50,60,60 | 0.77 | 2 (4%) |
| 29 | CLA | A | 829 | 1 | 65,73,73 | 1.52 | 8 (12%) | 76,113,113 | 1.38 | 7 (9%) |
| 29 | CLA | B | 834 | 2 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.49 | 8 (10%) |
| 29 | CLA | d | 306 | 23 | 51,59,73 | 1.70 | 6 (11%) | 59,96,113 | 1.53 | 8 (13%) |
| 29 | CLA | B | 835 | 2 | 47,55,73 | 1.78 | 7 (14%) | 54,91,113 | 1.53 | 8 (14%) |
| 29 | CLA | B | 802 | 41 | 65,73,73 | 1.44 | 5 (7%) | 76,113,113 | 1.45 | 8 (10%) |
| 29 | CLA | k | 614 | 21 | 51,59,73 | 1.72 | 6 (11%) | 59,96,113 | 1.61 | 10 (16%) |
| 38 | II0 | d | 314 | - | 39,43,43 | 0.21 | 0 | 50,60,60 | 0.72 | 1 (2%) |
| 29 | CLA | A | 828 | 1 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.39 | 8 (10%) |
| 32 | WVN | A | 847 | - | 40,41,41 | 5.79 | 19 (47%) | 50,56,56 | 5.80 | 32 (64%) |
| 31 | LHG | f | 619 | - | 48,48,48 | 0.60 | 0 | 51,54,54 | 1.23 | 6 (11%) |
| 38 | II0 | j | 316 | - | 39,43,43 | 6.31 | 22 (56%) | 50,60,60 | 6.74 | 30 (60%) |
| 29 | CLA | h | 307 | 17 | 51,59,73 | 1.68 | 6 (11%) | 59,96,113 | 1.57 | 9 (15%) |
| 29 | CLA | Q | 302 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.38 | 6 (7%) |
| 29 | CLA | A | 832 | 1 | 65,73,73 | 1.47 | 5 (7%) | 76,113,113 | 1.39 | 9 (11%) |
| 29 | CLA | B | 842 | 31 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.43 | 7 (9%) |
| 38 | II0 | n | 616 | - | 39,43,43 | 6.27 | 21 (53%) | 50,60,60 | 6.97 | 30 (60%) |
| 29 | CLA | j | 307 | 18 | 51,59,73 | 1.66 | 6 (11%) | 59,96,113 | 1.56 | 7 (11%) |
| 39 | IHT | n | 617 | - | 40,42,42 | 0.18 | 0 | 53,58,58 | 0.58 | 0 |
| 31 | LHG | s | 408 | - | 32,32,48 | 0.80 | 2 (6%) | 36,37,54 | 1.61 | 4 (11%) |
| 34 | SF4 | C | 102 | 3 | 0,12,12 | - | - | - | | |
| 29 | CLA | B | 809 | 2 | 65,73,73 | 1.51 | 7 (10%) | 76,113,113 | 1.46 | 6 (7%) |
| 29 | CLA | B | 810 | 2 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.33 | 9 (11%) |
| 38 | II0 | b | 301 | - | 39,43,43 | 6.40 | 22 (56%) | 50,60,60 | 6.77 | 29 (58%) |
| 29 | CLA | m | 612 | 41 | 51,59,73 | 1.65 | 6 (11%) | 59,96,113 | 1.61 | 10 (16%) |
| 38 | II0 | k | 616 | - | 39,43,43 | 6.42 | 22 (56%) | 50,60,60 | 6.80 | 30 (60%) |
| 29 | CLA | k | 603 | 21 | 51,59,73 | 1.66 | 7 (13%) | 59,96,113 | 1.58 | 7 (11%) |
| 29 | CLA | n | 606 | 26 | 51,59,73 | 1.67 | 6 (11%) | 59,96,113 | 1.52 | 7 (11%) |
| 29 | CLA | l | 306 | 20 | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.42 | 7 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 39 | IHT | j | 317 | - | 40,42,42 | 0.27 | 0 | 53,58,58 | 0.78 | 3 (5%) |
| 40 | KC2 | d | 311 | - | 48,53,53 | 3.44 | 22 (45%) | 54,89,89 | 3.86 | 30 (55%) |
| 29 | CLA | g | 306 | 24 | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.71 | 13 (17%) |
| 38 | II0 | l | 313 | - | 39,43,43 | 6.31 | 21 (53%) | 50,60,60 | 6.85 | 30 (60%) |
| 39 | IHT | c | 319 | - | 40,42,42 | 0.20 | 0 | 53,58,58 | 0.69 | 1 (1%) |
| 29 | CLA | f | 610 | 31 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.37 | 6 (7%) |
| 29 | CLA | d | 302 | 23 | 62,70,73 | 1.48 | 6 (9%) | 72,109,113 | 1.47 | 7 (9%) |
| 29 | CLA | A | 827 | 1 | 62,70,73 | 1.50 | 6 (9%) | 72,109,113 | 1.56 | 8 (11%) |
| 29 | CLA | B | 831 | 41 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.40 | 8 (10%) |
| 29 | CLA | A | 821 | 1 | 49,57,73 | 1.68 | 5 (10%) | 55,93,113 | 1.62 | 7 (12%) |
| 29 | CLA | c | 306 | 14 | 52,60,73 | 1.66 | 8 (15%) | 60,97,113 | 1.50 | 7 (11%) |
| 29 | CLA | n | 610 | - | 60,68,73 | 1.57 | 5 (8%) | 70,107,113 | 1.49 | 9 (12%) |
| 32 | WVN | F | 207 | - | 40,41,41 | 5.72 | 20 (50%) | 50,56,56 | 6.18 | 29 (58%) |
| 29 | CLA | l | 304 | 20 | 65,73,73 | 1.41 | 6 (9%) | 76,113,113 | 1.53 | 8 (10%) |
| 29 | CLA | n | 609 | 26 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.41 | 8 (10%) |
| 29 | CLA | F | 203 | 6 | 52,60,73 | 1.66 | 6 (11%) | 60,97,113 | 1.51 | 7 (11%) |
| 40 | KC2 | e | 309 | - | 48,53,53 | 3.47 | 22 (45%) | 54,89,89 | 3.84 | 28 (51%) |
| 38 | II0 | k | 619 | - | 39,43,43 | 6.21 | 22 (56%) | 50,60,60 | 6.96 | 28 (56%) |
| 29 | CLA | k | 609 | 21 | 57,65,73 | 1.62 | 7 (12%) | 66,103,113 | 1.46 | 6 (9%) |
| 29 | CLA | A | 816 | 1 | 65,73,73 | 1.42 | 7 (10%) | 76,113,113 | 1.56 | 9 (11%) |
| 29 | CLA | e | 303 | 19 | 51,59,73 | 1.63 | 6 (11%) | 59,96,113 | 1.64 | 6 (10%) |
| 38 | II0 | e | 313 | - | 39,43,43 | 6.27 | 21 (53%) | 50,60,60 | 6.65 | 30 (60%) |
| 29 | CLA | i | 303 | 22 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.42 | 8 (10%) |
| 34 | SF4 | A | 852 | 2,1 | 0,12,12 | - | - | - | | |
| 29 | CLA | c | 304 | 14 | 62,70,73 | 1.49 | 6 (9%) | 72,109,113 | 1.52 | 7 (9%) |
| 40 | KC2 | l | 311 | - | 48,53,53 | 3.47 | 24 (50%) | 54,89,89 | 3.74 | 26 (48%) |
| 38 | II0 | e | 312 | - | 39,43,43 | 6.22 | 22 (56%) | 50,60,60 | 6.80 | 30 (60%) |
| 29 | CLA | B | 806 | 2 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.38 | 7 (9%) |
| 29 | CLA | A | 808 | 1 | 65,73,73 | 1.48 | 8 (12%) | 76,113,113 | 1.40 | 8 (10%) |
| 32 | WVN | B | 845 | - | 40,41,41 | 0.36 | 0 | 50,56,56 | 1.10 | 4 (8%) |
| 29 | CLA | B | 816 | 2 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.53 | 11 (14%) |
| 32 | WVN | h | 308 | - | 40,41,41 | 5.77 | 20 (50%) | 50,56,56 | 6.26 | 34 (68%) |
| 29 | CLA | A | 851 | 1 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.44 | 8 (10%) |
| 39 | IHT | m | 617 | - | 40,42,42 | 0.18 | 0 | 53,58,58 | 0.43 | 1 (1%) |
| 38 | II0 | i | 319 | - | 39,43,43 | 6.38 | 21 (53%) | 50,60,60 | 6.55 | 30 (60%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 29 | CLA | g | 308 | 24 | 51,59,73 | 1.68 | 6 (11%) | 59,96,113 | 1.50 | 9 (15%) |
| 38 | II0 | a | 315 | - | 39,43,43 | 6.15 | 21 (53%) | 50,60,60 | 7.01 | 31 (62%) |
| 29 | CLA | B | 825 | 2 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.43 | 9 (11%) |
| 29 | CLA | B | 812 | 2 | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.45 | 8 (10%) |
| 29 | CLA | A | 807 | 1 | 65,73,73 | 1.42 | 6 (9%) | 76,113,113 | 1.46 | 6 (7%) |
| 38 | II0 | d | 301 | - | 39,43,43 | 6.16 | 22 (56%) | 50,60,60 | 6.99 | 29 (58%) |
| 29 | CLA | a | 302 | 15 | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.50 | 7 (9%) |
| 31 | LHG | A | 848 | - | 26,26,48 | 0.68 | 0 | 28,29,54 | 1.44 | 4 (14%) |
| 35 | SQD | A | 853 | - | 53,54,54 | 0.92 | 4 (7%) | 62,65,65 | 1.74 | 12 (19%) |
| 29 | CLA | A | 850 | 41 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.44 | 7 (9%) |
| 29 | CLA | e | 301 | 19 | 45,53,73 | 1.77 | 6 (13%) | 52,89,113 | 1.58 | 6 (11%) |
| 38 | II0 | n | 615 | - | 39,43,43 | 6.32 | 22 (56%) | 50,60,60 | 6.86 | 28 (56%) |
| 29 | CLA | O | 206 | 11 | 65,73,73 | 1.48 | 8 (12%) | 76,113,113 | 1.39 | 6 (7%) |
| 29 | CLA | c | 302 | 14 | 60,68,73 | 1.50 | 6 (10%) | 70,107,113 | 1.49 | 7 (10%) |
| 33 | LMU | a | 319 | - | 36,36,36 | 0.15 | 0 | 47,47,47 | 0.25 | 0 |
| 29 | CLA | A | 806 | 1 | 60,68,73 | 1.55 | 6 (10%) | 70,107,113 | 1.43 | 8 (11%) |
| 32 | WVN | A | 845 | - | 40,41,41 | 5.63 | 20 (50%) | 50,56,56 | 6.71 | 32 (64%) |
| 29 | CLA | m | 606 | 18 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.40 | 8 (10%) |
| 29 | CLA | g | 309 | 24 | 65,73,73 | 1.42 | 7 (10%) | 76,113,113 | 1.52 | 7 (9%) |
| 29 | CLA | c | 309 | 31 | 45,53,73 | 1.77 | 5 (11%) | 52,89,113 | 1.61 | 7 (13%) |
| 38 | II0 | f | 618 | - | 39,43,43 | 6.44 | 20 (51%) | 50,60,60 | 6.82 | 32 (64%) |
| 29 | CLA | b | 305 | 16 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.43 | 6 (7%) |
| 31 | LHG | c | 316 | 29 | 36,36,48 | 0.73 | 1 (2%) | 39,42,54 | 1.25 | 5 (12%) |
| 29 | CLA | A | 805 | 1 | 65,73,73 | 1.43 | 6 (9%) | 76,113,113 | 1.44 | 6 (7%) |
| 29 | CLA | i | 305 | 22 | 65,73,73 | 1.51 | 6 (9%) | 76,113,113 | 1.46 | 8 (10%) |
| 29 | CLA | a | 303 | 15 | 56,64,73 | 1.52 | 6 (10%) | 65,102,113 | 1.52 | 7 (10%) |
| 38 | II0 | h | 311 | - | 39,43,43 | 6.31 | 22 (56%) | 50,60,60 | 6.75 | 27 (54%) |
| 29 | CLA | L | 204 | 41 | 60,68,73 | 1.52 | 6 (10%) | 70,107,113 | 1.51 | 7 (10%) |
| 29 | CLA | f | 608 | 18 | 65,73,73 | 1.52 | 6 (9%) | 76,113,113 | 1.49 | 6 (7%) |
| 29 | CLA | f | 603 | 18 | 51,59,73 | 1.63 | 7 (13%) | 59,96,113 | 1.64 | 6 (10%) |
| 29 | CLA | A | 815 | 41 | 45,53,73 | 1.72 | 6 (13%) | 52,89,113 | 1.81 | 8 (15%) |
| 29 | CLA | m | 608 | 18 | 65,73,73 | 1.49 | 7 (10%) | 76,113,113 | 1.37 | 7 (9%) |
| 29 | CLA | b | 302 | 16 | 51,59,73 | 1.66 | 6 (11%) | 59,96,113 | 1.56 | 7 (11%) |
| 29 | CLA | l | 309 | 20 | 57,65,73 | 1.55 | 6 (10%) | 66,103,113 | 1.51 | 7 (10%) |
| 29 | CLA | b | 310 | 16 | 65,73,73 | 1.51 | 7 (10%) | 76,113,113 | 1.32 | 7 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 29 | CLA | A | 813 | 1 | 56,64,73 | 1.61 | 6 (10%) | 65,102,113 | 1.58 | 10 (15%) |
| 29 | CLA | n | 601 | 26 | 45,53,73 | 1.77 | 6 (13%) | 52,89,113 | 1.59 | 6 (11%) |
| 40 | KC2 | g | 315 | 40 | 48,53,53 | 3.44 | 22 (45%) | 54,89,89 | 3.86 | 29 (53%) |
| 29 | CLA | m | 604 | 18 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.51 | 7 (9%) |
| 32 | WVN | l | 316 | - | 40,41,41 | 5.84 | 19 (47%) | 50,56,56 | 6.14 | 31 (62%) |
| 37 | LMG | c | 317 | - | 55,55,55 | 0.72 | 0 | 63,63,63 | 1.41 | 7 (11%) |
| 38 | II0 | J | 103 | - | 39,43,43 | 6.12 | 21 (53%) | 50,60,60 | 6.85 | 30 (60%) |
| 29 | CLA | B | 821 | 2 | 53,61,73 | 1.64 | 7 (13%) | 61,98,113 | 1.47 | 8 (13%) |
| 29 | CLA | f | 607 | 18 | 65,73,73 | 1.51 | 7 (10%) | 76,113,113 | 1.29 | 8 (10%) |
| 29 | CLA | c | 303 | 14 | 51,59,73 | 1.65 | 7 (13%) | 59,96,113 | 1.63 | 7 (11%) |
| 29 | CLA | A | 833 | 1 | 65,73,73 | 1.49 | 7 (10%) | 76,113,113 | 1.38 | 6 (7%) |
| 29 | CLA | J | 102 | 8 | 42,50,73 | 1.82 | 6 (14%) | 48,85,113 | 1.63 | 7 (14%) |
| 29 | CLA | A | 819 | 1 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.48 | 13 (17%) |
| 38 | II0 | m | 615 | - | 39,43,43 | 6.44 | 21 (53%) | 50,60,60 | 6.66 | 33 (66%) |
| 28 | CL0 | A | 801 | - | 65,73,73 | 1.50 | 8 (12%) | 76,113,113 | 0.80 | 3 (3%) |
| 32 | WVN | F | 204 | - | 40,41,41 | 5.61 | 19 (47%) | 50,56,56 | 6.18 | 33 (66%) |
| 29 | CLA | A | 814 | 1 | 50,58,73 | 1.63 | 6 (12%) | 58,95,113 | 1.62 | 7 (12%) |
| 38 | II0 | l | 314 | - | 39,43,43 | 6.44 | 22 (56%) | 50,60,60 | 6.69 | 26 (52%) |
| 32 | WVN | L | 205 | - | 40,41,41 | 5.72 | 19 (47%) | 50,56,56 | 6.10 | 31 (62%) |
| 37 | LMG | L | 210 | - | 45,45,55 | 0.82 | 0 | 53,53,63 | 1.24 | 3 (5%) |
| 38 | II0 | a | 314 | - | 39,43,43 | 6.39 | 21 (53%) | 50,60,60 | 6.58 | 27 (54%) |
| 29 | CLA | A | 835 | 1 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.40 | 8 (10%) |
| 29 | CLA | k | 606 | 21 | 51,59,73 | 1.68 | 6 (11%) | 59,96,113 | 1.52 | 8 (13%) |
| 29 | CLA | A | 818 | 1 | 65,73,73 | 1.49 | 8 (12%) | 76,113,113 | 1.54 | 9 (11%) |
| 29 | CLA | a | 308 | 15 | 65,73,73 | 1.43 | 6 (9%) | 76,113,113 | 1.46 | 6 (7%) |
| 38 | II0 | i | 316 | - | 39,43,43 | 6.26 | 21 (53%) | 50,60,60 | 6.93 | 30 (60%) |
| 32 | WVN | B | 847 | - | 40,41,41 | 5.69 | 20 (50%) | 50,56,56 | 6.11 | 31 (62%) |
| 29 | CLA | i | 307 | 22 | 61,69,73 | 1.56 | 6 (9%) | 71,108,113 | 1.31 | 7 (9%) |
| 36 | DGD | j | 319 | - | 63,63,67 | 1.01 | 5 (7%) | 77,77,81 | 1.57 | 11 (14%) |
| 40 | KC2 | s | 404 | - | 48,53,53 | 3.39 | 22 (45%) | 54,89,89 | 3.76 | 27 (50%) |
| 38 | II0 | O | 203 | - | 39,43,43 | 0.19 | 0 | 50,60,60 | 1.05 | 4 (8%) |
| 29 | CLA | A | 817 | 1 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.45 | 8 (10%) |
| 29 | CLA | k | 610 | - | 51,59,73 | 1.67 | 6 (11%) | 59,96,113 | 1.62 | 10 (16%) |
| 29 | CLA | n | 613 | 26 | 51,59,73 | 1.71 | 6 (11%) | 59,96,113 | 1.47 | 10 (16%) |
| 29 | CLA | k | 608 | 21 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.35 | 7 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 30 | PQN | B | 843 | - | 34,34,34 | 2.81 | 9 (26%) | 42,45,45 | 1.94 | 4 (9%) |
| 29 | CLA | j | 308 | 18 | 51,59,73 | 1.63 | 7 (13%) | 59,96,113 | 1.60 | 10 (16%) |
| 32 | WVN | F | 205 | - | 40,41,41 | 5.26 | 16 (40%) | 50,56,56 | 6.25 | 36 (72%) |
| 39 | IHT | R | 204 | - | 40,42,42 | 0.21 | 0 | 53,58,58 | 0.52 | 1 (1%) |
| 29 | CLA | B | 807 | 2 | 65,73,73 | 1.42 | 7 (10%) | 76,113,113 | 1.44 | 7 (9%) |
| 32 | WVN | l | 302 | - | 40,41,41 | 5.67 | 19 (47%) | 50,56,56 | 6.11 | 31 (62%) |
| 40 | KC2 | f | 611 | - | 48,53,53 | 3.35 | 21 (43%) | 54,89,89 | 3.92 | 29 (53%) |
| 33 | LMU | A | 855 | - | 35,35,36 | 0.17 | 0 | 46,46,47 | 0.29 | 0 |
| 29 | CLA | l | 308 | 20 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.41 | 7 (9%) |
| 29 | CLA | c | 307 | 14 | 46,54,73 | 1.71 | 6 (13%) | 53,90,113 | 1.60 | 7 (13%) |
| 29 | CLA | f | 606 | 18 | 51,59,73 | 1.67 | 5 (9%) | 59,96,113 | 1.52 | 8 (13%) |
| 31 | LHG | n | 619 | - | 42,42,48 | 0.65 | 0 | 45,48,54 | 1.20 | 4 (8%) |
| 38 | II0 | i | 314 | - | 39,43,43 | 6.60 | 22 (56%) | 50,60,60 | 6.55 | 28 (56%) |
| 40 | KC2 | g | 314 | 40,24 | 48,53,53 | 3.43 | 24 (50%) | 54,89,89 | 3.73 | 29 (53%) |
| 29 | CLA | s | 403 | 13 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.50 | 8 (10%) |
| 29 | CLA | m | 602 | 18 | 60,68,73 | 1.51 | 7 (11%) | 70,107,113 | 1.67 | 14 (20%) |
| 29 | CLA | f | 609 | 18 | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.46 | 8 (10%) |
| 29 | CLA | h | 302 | 17 | 50,58,73 | 1.66 | 7 (14%) | 58,95,113 | 1.64 | 7 (12%) |
| 29 | CLA | n | 602 | 26 | 50,58,73 | 1.64 | 6 (12%) | 58,95,113 | 1.59 | 7 (12%) |
| 29 | CLA | f | 601 | 18 | 47,55,73 | 1.73 | 6 (12%) | 54,91,113 | 1.59 | 6 (11%) |
| 29 | CLA | g | 323 | 31 | 55,63,73 | 1.62 | 6 (10%) | 64,101,113 | 1.58 | 10 (15%) |
| 29 | CLA | B | 805 | 2 | 65,73,73 | 1.44 | 6 (9%) | 76,113,113 | 1.50 | 7 (9%) |
| 29 | CLA | d | 304 | 23 | 45,53,73 | 1.79 | 6 (13%) | 52,89,113 | 1.75 | 7 (13%) |
| 29 | CLA | j | 309 | 18 | 45,53,73 | 1.78 | 6 (13%) | 52,89,113 | 1.59 | 7 (13%) |
| 29 | CLA | h | 303 | 17 | 50,58,73 | 1.69 | 6 (12%) | 58,95,113 | 1.59 | 9 (15%) |
| 31 | LHG | A | 842 | - | 47,47,48 | 0.66 | 1 (2%) | 50,53,54 | 1.25 | 5 (10%) |
| 29 | CLA | c | 312 | 14 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.36 | 6 (7%) |
| 29 | CLA | B | 839 | 2 | 57,65,73 | 1.58 | 6 (10%) | 66,103,113 | 1.44 | 7 (10%) |
| 29 | CLA | s | 406 | 41 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.49 | 9 (11%) |
| 32 | WVN | A | 854 | - | 40,41,41 | 5.69 | 19 (47%) | 50,56,56 | 6.32 | 33 (66%) |
| 29 | CLA | h | 301 | 41 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 3.38 | 10 (13%) |
| 29 | CLA | a | 305 | 41 | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.48 | 8 (10%) |
| 33 | LMU | i | 301 | - | 36,36,36 | 1.75 | 12 (33%) | 47,47,47 | 0.93 | 1 (2%) |
| 29 | CLA | O | 201 | 31 | 52,60,73 | 1.60 | 7 (13%) | 60,97,113 | 1.55 | 7 (11%) |
| 29 | CLA | a | 306 | 15 | 45,53,73 | 1.77 | 6 (13%) | 52,89,113 | 1.70 | 10 (19%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 29 | CLA | R | 203 | 25 | 55,63,73 | 1.65 | 6 (10%) | 64,101,113 | 1.67 | 12 (18%) |
| 29 | CLA | b | 308 | 16 | 65,73,73 | 1.43 | 6 (9%) | 76,113,113 | 1.45 | 7 (9%) |
| 29 | CLA | a | 310 | 15 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.42 | 6 (7%) |
| 29 | CLA | i | 309 | 31 | 46,54,73 | 1.74 | 6 (13%) | 53,90,113 | 1.61 | 6 (11%) |
| 29 | CLA | A | 831 | 1 | 65,73,73 | 1.49 | 7 (10%) | 76,113,113 | 1.37 | 7 (9%) |
| 29 | CLA | A | 812 | 1 | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.43 | 6 (7%) |
| 29 | CLA | n | 607 | 26 | 65,73,73 | 1.49 | 8 (12%) | 76,113,113 | 1.34 | 8 (10%) |
| 29 | CLA | d | 313 | 23 | 51,59,73 | 1.67 | 6 (11%) | 59,96,113 | 1.63 | 12 (20%) |
| 38 | II0 | c | 314 | - | 39,43,43 | 0.21 | 0 | 50,60,60 | 0.55 | 1 (2%) |
| 39 | IHT | g | 324 | 29 | 40,42,42 | 0.17 | 0 | 53,58,58 | 0.79 | 2 (3%) |
| 29 | CLA | k | 607 | 21 | 51,59,73 | 1.67 | 6 (11%) | 59,96,113 | 1.59 | 11 (18%) |
| 29 | CLA | L | 207 | 41 | 51,59,73 | 1.68 | 7 (13%) | 59,96,113 | 1.51 | 7 (11%) |
| 32 | WVN | i | 315 | - | 40,41,41 | 5.77 | 20 (50%) | 50,56,56 | 6.06 | 31 (62%) |
| 38 | II0 | b | 315 | - | 39,43,43 | 6.18 | 19 (48%) | 50,60,60 | 6.52 | 27 (54%) |
| 29 | CLA | h | 305 | 17 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.44 | 7 (9%) |
| 29 | CLA | k | 602 | 21 | 65,73,73 | 1.46 | 8 (12%) | 76,113,113 | 1.38 | 6 (7%) |
| 32 | WVN | A | 846 | - | 40,41,41 | 5.64 | 19 (47%) | 50,56,56 | 6.45 | 32 (64%) |
| 29 | CLA | e | 304 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.47 | 8 (10%) |
| 38 | II0 | m | 614 | - | 39,43,43 | 6.42 | 22 (56%) | 50,60,60 | 6.79 | 28 (56%) |
| 29 | CLA | j | 302 | 18 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.40 | 6 (7%) |
| 29 | CLA | B | 817 | 2 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.36 | 8 (10%) |
| 29 | CLA | f | 612 | 41 | 51,59,73 | 1.61 | 6 (11%) | 59,96,113 | 1.58 | 7 (11%) |
| 29 | CLA | l | 305 | 20 | 51,59,73 | 1.62 | 7 (13%) | 59,96,113 | 1.68 | 7 (11%) |
| 29 | CLA | d | 307 | 23 | 45,53,73 | 1.80 | 6 (13%) | 52,89,113 | 1.56 | 8 (15%) |
| 40 | KC2 | d | 312 | 23 | 48,53,53 | 1.70 | 10 (20%) | 54,89,89 | 1.04 | 4 (7%) |
| 29 | CLA | b | 309 | 37 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.41 | 6 (7%) |
| 38 | II0 | e | 316 | - | 39,43,43 | 0.22 | 0 | 50,60,60 | 0.78 | 2 (4%) |
| 38 | II0 | h | 310 | - | 39,43,43 | 6.09 | 21 (53%) | 50,60,60 | 6.91 | 29 (58%) |
| 29 | CLA | O | 202 | 41 | 65,73,73 | 1.45 | 6 (9%) | 76,113,113 | 1.43 | 7 (9%) |
| 29 | CLA | B | 804 | - | 65,73,73 | 1.43 | 7 (10%) | 76,113,113 | 1.69 | 9 (11%) |
| 29 | CLA | e | 307 | 19 | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.39 | 7 (9%) |
| 29 | CLA | B | 829 | 2 | 65,73,73 | 1.46 | 5 (7%) | 76,113,113 | 1.52 | 10 (13%) |
| 29 | CLA | j | 313 | - | 51,59,73 | 1.66 | 7 (13%) | 59,96,113 | 1.53 | 6 (10%) |
| 29 | CLA | m | 609 | 18 | 60,68,73 | 1.49 | 6 (10%) | 70,107,113 | 1.46 | 7 (10%) |
| 31 | LHG | c | 320 | - | 48,48,48 | 0.59 | 0 | 51,54,54 | 1.25 | 6 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 38 | II0 | d | 317 | - | 39,43,43 | 6.40 | 21 (53%) | 50,60,60 | 6.75 | 27 (54%) |
| 38 | II0 | m | 616 | - | 39,43,43 | 6.40 | 22 (56%) | 50,60,60 | 6.76 | 31 (62%) |
| 31 | LHG | e | 317 | 29 | 36,36,48 | 0.71 | 1 (2%) | 39,42,54 | 1.21 | 4 (10%) |
| 29 | CLA | b | 307 | 16 | 61,69,73 | 1.52 | 6 (9%) | 71,108,113 | 1.39 | 7 (9%) |
| 29 | CLA | A | 803 | 1 | 55,63,73 | 1.67 | 6 (10%) | 64,101,113 | 1.48 | 8 (12%) |
| 29 | CLA | j | 306 | 18 | 45,53,73 | 1.79 | 7 (15%) | 52,89,113 | 1.75 | 8 (15%) |
| 29 | CLA | B | 841 | 2 | 65,73,73 | 1.53 | 7 (10%) | 76,113,113 | 1.40 | 10 (13%) |
| 29 | CLA | e | 311 | 19 | 65,73,73 | 1.50 | 6 (9%) | 76,113,113 | 1.39 | 9 (11%) |
| 40 | KC2 | s | 401 | 13 | 48,53,53 | 3.31 | 22 (45%) | 54,89,89 | 3.82 | 29 (53%) |
| 29 | CLA | A | 836 | 1 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.49 | 9 (11%) |
| 29 | CLA | f | 602 | 18 | 65,73,73 | 1.41 | 7 (10%) | 76,113,113 | 1.53 | 7 (9%) |
| 40 | KC2 | i | 318 | 22 | 48,53,53 | 3.53 | 23 (47%) | 54,89,89 | 3.84 | 28 (51%) |
| 29 | CLA | B | 822 | 41 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.64 | 11 (14%) |
| 29 | CLA | A | 840 | 1 | 65,73,73 | 1.43 | 6 (9%) | 76,113,113 | 1.48 | 8 (10%) |
| 40 | KC2 | n | 611 | - | 48,53,53 | 3.42 | 22 (45%) | 54,89,89 | 3.91 | 27 (50%) |
| 38 | II0 | l | 315 | - | 39,43,43 | 6.55 | 22 (56%) | 50,60,60 | 6.79 | 33 (66%) |
| 38 | II0 | a | 317 | - | 39,43,43 | 6.38 | 20 (51%) | 50,60,60 | 6.83 | 31 (62%) |
| 29 | CLA | m | 610 | 31 | 55,63,73 | 1.61 | 5 (9%) | 64,101,113 | 1.48 | 7 (10%) |
| 40 | KC2 | k | 611 | - | 48,53,53 | 3.48 | 22 (45%) | 54,89,89 | 3.89 | 29 (53%) |
| 31 | LHG | m | 619 | 29 | 36,36,48 | 0.70 | 0 | 39,42,54 | 1.22 | 4 (10%) |
| 38 | II0 | g | 318 | - | 39,43,43 | 6.34 | 21 (53%) | 50,60,60 | 6.66 | 30 (60%) |
| 37 | LMG | c | 318 | 29 | 43,43,55 | 0.91 | 0 | 51,51,63 | 1.23 | 5 (9%) |
| 38 | II0 | b | 314 | - | 39,43,43 | 6.12 | 19 (48%) | 50,60,60 | 6.77 | 29 (58%) |
| 32 | WVN | M | 101 | - | 40,41,41 | 5.76 | 19 (47%) | 50,56,56 | 6.44 | 33 (66%) |
| 29 | CLA | B | 815 | 2 | 55,63,73 | 1.56 | 7 (12%) | 64,101,113 | 1.57 | 7 (10%) |
| 29 | CLA | K | 102 | 12 | 42,50,73 | 1.80 | 6 (14%) | 48,85,113 | 1.69 | 10 (20%) |
| 29 | CLA | A | 838 | 1 | 65,73,73 | 1.50 | 7 (10%) | 76,113,113 | 1.42 | 8 (10%) |
| 29 | CLA | d | 318 | - | 45,53,73 | 1.80 | 6 (13%) | 52,89,113 | 1.65 | 8 (15%) |
| 29 | CLA | B | 813 | 2 | 60,68,73 | 1.52 | 7 (11%) | 70,107,113 | 1.52 | 7 (10%) |
| 29 | CLA | e | 305 | 19 | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.37 | 7 (9%) |
| 38 | II0 | d | 319 | - | 39,43,43 | 0.21 | 0 | 50,60,60 | 0.76 | 1 (2%) |
| 29 | CLA | B | 808 | 2 | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.52 | 9 (11%) |
| 29 | CLA | d | 305 | 23 | 51,59,73 | 1.69 | 5 (9%) | 59,96,113 | 1.57 | 8 (13%) |
| 38 | II0 | h | 309 | - | 26,28,43 | 6.25 | 13 (50%) | 31,37,60 | 6.82 | 19 (61%) |
| 36 | DGD | B | 844 | - | 67,67,67 | 0.89 | 4 (5%) | 81,81,81 | 1.43 | 9 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Counts | RMSZ | $\#\|Z\|>2$ | Counts | RMSZ | $\#\|Z\|>2$ |
| 29 | CLA | B | 838 | 2 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.44 | 8 (10%) |
| 33 | LMU | A | 849 | - | 36,36,36 | 1.75 | 11 (30%) | 47,47,47 | 1.02 | 4 (8%) |
| 37 | LMG | b | 319 | - | 42,42,55 | 0.89 | 2 (4%) | 50,50,63 | 1.21 | 4 (8%) |
| 29 | CLA | n | 608 | 26 | 65,73,73 | 1.49 | 5 (7%) | 76,113,113 | 1.36 | 8 (10%) |
| 29 | CLA | g | 311 | 24 | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.56 | 9 (11%) |
| 32 | WVN | s | 405 | - | 40,41,41 | 5.67 | 19 (47%) | 50,56,56 | 6.29 | 29 (58%) |
| 31 | LHG | i | 317 | 29 | 36,36,48 | 0.66 | 0 | 39,42,54 | 1.22 | 4 (10%) |
| 29 | CLA | e | 302 | 19 | 65,73,73 | 1.43 | 6 (9%) | 76,113,113 | 1.42 | 8 (10%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | A | 820 | 41 | 1/1/15/20 | 7/37/115/115 | - |
| 29 | CLA | l | 307 | 20 | 1/1/15/20 | 5/37/115/115 | - |
| 29 | CLA | B | 819 | 2 | 1/1/15/20 | 18/37/115/115 | - |
| 31 | LHG | L | 209 | - | - | 23/40/40/53 | - |
| 29 | CLA | a | 312 | 15 | 1/1/11/20 | 6/17/95/115 | - |
| 29 | CLA | B | 820 | 2 | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | j | 310 | 18 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | L | 202 | 9 | 1/1/11/20 | 6/18/96/115 | - |
| 29 | CLA | A | 824 | 41 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | i | 306 | 22 | 1/1/12/20 | 7/21/99/115 | - |
| 29 | CLA | l | 301 | 20 | 1/1/15/20 | 11/37/115/115 | - |
| 38 | II0 | e | 314 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | g | 305 | 39,24 | 1/1/15/20 | 5/37/115/115 | - |
| 32 | WVN | R | 201 | - | - | 18/29/63/63 | 0/2/2/2 |
| 37 | LMG | n | 620 | - | - | 18/46/66/70 | 0/1/1/1 |
| 29 | CLA | c | 301 | 14 | 1/1/12/20 | 9/21/99/115 | - |
| 29 | CLA | g | 303 | 24 | 1/1/10/20 | 5/10/88/115 | - |
| 31 | LHG | a | 318 | 29 | - | 27/53/53/53 | - |
| 29 | CLA | g | 302 | - | 1/1/15/20 | 17/37/115/115 | - |
| 29 | CLA | B | 832 | 41 | 1/1/11/20 | 2/13/91/115 | - |
| 38 | II0 | g | 319 | - | - | 13/21/67/67 | 0/2/2/2 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 40 | KC2 | g | 313 | - | - | 8/15/71/71 | - |
| 39 | IHT | O | 204 | - | - | 4/25/65/65 | 0/2/2/2 |
| 29 | CLA | a | 309 | 31 | 1/1/11/20 | 5/17/95/115 | - |
| 40 | KC2 | j | 312 | 18 | - | 8/15/71/71 | - |
| 29 | CLA | l | 312 | 20 | 1/1/13/20 | 8/27/105/115 | - |
| 38 | II0 | g | 321 | - | - | 3/21/67/67 | 0/2/2/2 |
| 29 | CLA | A | 804 | 1 | 1/1/15/20 | 5/37/115/115 | - |
| 29 | CLA | g | 316 | 24 | 1/1/13/20 | 8/28/106/115 | - |
| 29 | CLA | B | 836 | 41 | 1/1/15/20 | 13/37/115/115 | - |
| 32 | WVN | L | 206 | - | - | 17/29/63/63 | 0/2/2/2 |
| 29 | CLA | k | 604 | 21 | 1/1/15/20 | 12/37/115/115 | - |
| 38 | II0 | k | 620 | - | - | 13/21/67/67 | 0/2/2/2 |
| 39 | IHT | c | 315 | - | - | 6/25/65/65 | 0/2/2/2 |
| 31 | LHG | f | 620 | 29 | - | 21/41/41/53 | - |
| 38 | II0 | a | 313 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 827 | 2 | 1/1/12/20 | 5/21/99/115 | - |
| 32 | WVN | e | 315 | - | - | 16/29/63/63 | 0/2/2/2 |
| 37 | LMG | O | 205 | - | - | 10/21/41/70 | 0/1/1/1 |
| 29 | CLA | m | 607 | 18 | 1/1/12/20 | 1/21/99/115 | - |
| 29 | CLA | h | 306 | 17 | 1/1/13/20 | 10/28/106/115 | - |
| 29 | CLA | B | 823 | 41 | 1/1/14/20 | 6/36/114/115 | - |
| 34 | SF4 | C | 101 | 3 | - | - | 0/6/5/5 |
| 29 | CLA | i | 302 | 22 | 1/1/15/20 | 18/37/115/115 | - |
| 32 | WVN | R | 202 | - | - | 15/29/63/63 | 0/2/2/2 |
| 38 | II0 | c | 313 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | a | 304 | 15 | 1/1/12/20 | 1/21/99/115 | - |
| 31 | LHG | a | 301 | 29 | - | 22/53/53/53 | - |
| 29 | CLA | A | 810 | 1 | 1/1/15/20 | 17/37/115/115 | - |
| 32 | WVN | s | 407 | - | - | 14/29/63/63 | 0/2/2/2 |
| 38 | II0 | d | 316 | - | - | 11/21/67/67 | 0/2/2/2 |
| 32 | WVN | B | 849 | - | - | 14/29/63/63 | 0/2/2/2 |
| 29 | CLA | A | 834 | 1 | 1/1/14/20 | 8/31/109/115 | - |
| 29 | CLA | i | 311 | - | 1/1/14/20 | 11/31/109/115 | - |
| 38 | II0 | m | 618 | - | - | 13/21/67/67 | 0/2/2/2 |
| 29 | CLA | c | 311 | 14 | - | 7/13/91/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | i | 304 | 22 | 1/1/15/20 | 5/37/115/115 | - |
| 29 | CLA | h | 304 | 17 | 1/1/12/20 | 6/21/99/115 | - |
| 29 | CLA | B | 814 | 2 | 1/1/15/20 | 10/37/115/115 | - |
| 32 | WVN | I | 101 | - | - | 18/29/63/63 | 0/2/2/2 |
| 32 | WVN | B | 848 | - | - | 15/29/63/63 | 0/2/2/2 |
| 37 | LMG | F | 208 | - | - | 13/36/56/70 | 0/1/1/1 |
| 38 | II0 | n | 618 | - | - | 10/21/67/67 | 0/2/2/2 |
| 29 | CLA | b | 312 | 16 | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | n | 605 | 26 | 1/1/12/20 | 9/21/99/115 | - |
| 29 | CLA | A | 837 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 40 | KC2 | k | 612 | 21 | - | 9/15/71/71 | - |
| 29 | CLA | B | 818 | 41 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | e | 306 | 19 | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | A | 811 | 1 | 1/1/12/20 | 5/24/102/115 | - |
| 29 | CLA | i | 308 | 22 | 1/1/15/20 | 19/37/115/115 | - |
| 29 | CLA | e | 310 | 41 | 1/1/13/20 | 9/25/103/115 | - |
| 29 | CLA | h | 312 | 41 | 1/1/15/20 | 6/37/115/115 | - |
| 29 | CLA | d | 310 | 23 | 1/1/10/20 | 4/8/86/115 | - |
| 29 | CLA | s | 402 | 13 | 1/1/15/20 | 21/37/115/115 | - |
| 29 | CLA | n | 603 | 26 | 1/1/12/20 | 9/21/99/115 | - |
| 29 | CLA | f | 604 | 18 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | B | 824 | 2 | 1/1/15/20 | 3/37/115/115 | - |
| 29 | CLA | m | 613 | 18 | 1/1/15/20 | 15/37/115/115 | - |
| 32 | WVN | B | 846 | - | - | 15/29/63/63 | 0/2/2/2 |
| 29 | CLA | A | 823 | 1 | 1/1/13/20 | 9/25/103/115 | - |
| 29 | CLA | F | 201 | 41 | 1/1/15/20 | 14/37/115/115 | - |
| 29 | CLA | a | 311 | 15 | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | B | 840 | 2 | 1/1/15/20 | 5/37/115/115 | - |
| 29 | CLA | B | 833 | 2 | 1/1/13/20 | 5/25/103/115 | - |
| 29 | CLA | A | 822 | 1 | 1/1/13/20 | 13/27/105/115 | - |
| 38 | II0 | n | 614 | - | - | 10/21/67/67 | 0/2/2/2 |
| 29 | CLA | m | 605 | 18 | 1/1/10/20 | 5/10/88/115 | - |
| 40 | KC2 | k | 613 | - | - | 9/15/71/71 | - |
| 29 | CLA | A | 809 | 1 | 1/1/13/20 | 9/27/105/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 31 | LHG | A | 843 | 29 | - | 6/31/31/53 | - |
| 31 | LHG | j | 318 | 29 | - | 13/34/34/53 | - |
| 29 | CLA | b | 311 | 16 | 1/1/14/20 | 12/36/114/115 | - |
| 38 | II0 | j | 315 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | F | 202 | 41 | 1/1/15/20 | 15/37/115/115 | - |
| 38 | II0 | k | 615 | - | - | 14/21/67/67 | 0/2/2/2 |
| 29 | CLA | j | 305 | 18 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | K | 101 | 41 | 1/1/15/20 | 17/37/115/115 | - |
| 29 | CLA | k | 605 | 21 | 1/1/11/20 | 5/13/91/115 | - |
| 29 | CLA | b | 306 | 41 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | d | 303 | 23 | 1/1/12/20 | 7/21/99/115 | - |
| 29 | CLA | e | 308 | 31 | 1/1/11/20 | 1/15/93/115 | - |
| 29 | CLA | l | 310 | 31 | 1/1/14/20 | 12/33/111/115 | - |
| 38 | II0 | b | 317 | - | - | 9/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 837 | 2 | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | B | 803 | 2 | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | i | 312 | 22 | 1/1/15/20 | 14/37/115/115 | - |
| 37 | LMG | Q | 301 | - | - | 16/33/53/70 | 0/1/1/1 |
| 29 | CLA | j | 314 | 18 | 1/1/15/20 | 12/37/115/115 | - |
| 39 | IHT | f | 617 | - | - | 2/25/65/65 | 0/2/2/2 |
| 29 | CLA | g | 304 | 24 | 1/1/15/20 | 18/37/115/115 | - |
| 29 | CLA | b | 304 | 16 | 1/1/12/20 | 2/22/100/115 | - |
| 29 | CLA | b | 303 | 16 | 1/1/13/20 | 11/25/103/115 | - |
| 29 | CLA | A | 802 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | b | 313 | 31 | 1/1/12/20 | 5/21/99/115 | - |
| 29 | CLA | g | 307 | 24 | 1/1/12/20 | 11/21/99/115 | - |
| 29 | CLA | L | 203 | 9 | 1/1/15/20 | 5/37/115/115 | - |
| 39 | IHT | g | 320 | - | - | 5/25/65/65 | 0/2/2/2 |
| 29 | CLA | A | 839 | 1 | 1/1/14/20 | 3/31/109/115 | - |
| 29 | CLA | j | 303 | 18 | 1/1/12/20 | 9/24/102/115 | - |
| 40 | KC2 | m | 611 | 18 | - | 7/15/71/71 | - |
| 29 | CLA | a | 307 | 15 | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | m | 601 | 18 | 1/1/10/20 | 5/10/88/115 | - |
| 29 | CLA | d | 308 | 23 | 1/1/11/20 | 7/15/93/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | A | 826 | 1 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | f | 605 | 18 | 1/1/11/20 | 4/13/91/115 | - |
| 29 | CLA | c | 308 | 14 | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | g | 310 | 24 | 1/1/15/20 | 14/37/115/115 | - |
| 37 | LMG | F | 206 | - | - | 31/48/68/70 | 0/1/1/1 |
| 29 | CLA | k | 601 | 21 | 1/1/12/20 | 5/21/99/115 | - |
| 32 | WVN | L | 201 | - | - | 22/29/63/63 | 0/2/2/2 |
| 29 | CLA | B | 830 | 2 | 1/1/12/20 | 5/19/97/115 | - |
| 32 | WVN | K | 103 | - | - | 14/29/63/63 | 0/2/2/2 |
| 39 | IHT | b | 316 | - | - | 8/25/65/65 | 0/2/2/2 |
| 31 | LHG | g | 301 | 29 | - | 24/49/49/53 | - |
| 31 | LHG | J | 104 | 29 | - | 16/37/37/53 | - |
| 38 | II0 | l | 317 | - | - | 1/21/67/67 | 0/2/2/2 |
| 38 | II0 | f | 615 | - | - | 12/21/67/67 | 0/2/2/2 |
| 38 | II0 | g | 317 | - | - | 9/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 801 | 41 | 1/1/15/20 | 15/37/115/115 | - |
| 31 | LHG | b | 318 | - | - | 27/53/53/53 | - |
| 29 | CLA | A | 830 | 1 | 1/1/14/20 | 5/31/109/115 | - |
| 29 | CLA | g | 312 | 31 | 1/1/12/20 | 3/24/102/115 | - |
| 38 | II0 | f | 614 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | j | 304 | 18 | 1/1/12/20 | 6/21/99/115 | - |
| 40 | KC2 | i | 310 | 22 | - | 10/15/71/71 | - |
| 29 | CLA | f | 613 | 18 | 1/1/15/20 | 16/37/115/115 | - |
| 32 | WVN | J | 101 | - | - | 17/29/63/63 | 0/2/2/2 |
| 29 | CLA | c | 305 | 14 | 1/1/15/20 | 5/37/115/115 | - |
| 31 | LHG | l | 318 | 29 | - | 12/36/36/53 | - |
| 29 | CLA | l | 303 | 20 | 1/1/11/20 | 6/16/94/115 | - |
| 38 | II0 | j | 301 | - | - | 14/21/67/67 | 0/2/2/2 |
| 33 | LMU | B | 850 | - | - | 4/21/61/61 | 0/2/2/2 |
| 29 | CLA | B | 826 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 32 | WVN | A | 844 | - | - | 18/29/63/63 | 0/2/2/2 |
| 38 | II0 | k | 618 | - | - | 5/21/67/67 | 0/2/2/2 |
| 30 | PQN | A | 841 | - | - | 10/23/43/43 | 0/2/2/2 |
| 31 | LHG | L | 208 | - | - | 19/51/51/53 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | B | 828 | 2 | 1/1/12/20 | 8/19/97/115 | - |
| 31 | LHG | g | 322 | 29 | - | 17/41/41/53 | - |
| 38 | II0 | f | 616 | - | - | 12/21/67/67 | 0/2/2/2 |
| 38 | II0 | d | 315 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | m | 603 | 18 | 1/1/13/20 | 7/30/108/115 | - |
| 40 | KC2 | c | 310 | 14 | - | 10/15/71/71 | - |
| 29 | CLA | B | 811 | 2 | 1/1/13/20 | 3/25/103/115 | - |
| 40 | KC2 | n | 612 | 26 | - | 12/15/71/71 | - |
| 38 | II0 | i | 313 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | n | 604 | 26 | 1/1/14/20 | 11/31/109/115 | - |
| 39 | IHT | a | 316 | - | - | 5/25/65/65 | 0/2/2/2 |
| 29 | CLA | d | 309 | 23 | 1/1/10/20 | 2/8/86/115 | - |
| 29 | CLA | A | 825 | 41 | 1/1/15/20 | 6/37/115/115 | - |
| 29 | CLA | j | 311 | 31 | 1/1/14/20 | 13/33/111/115 | - |
| 38 | II0 | k | 617 | - | - | 4/21/67/67 | 0/2/2/2 |
| 29 | CLA | A | 829 | 1 | 1/1/15/20 | 6/37/115/115 | - |
| 29 | CLA | B | 834 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | d | 306 | 23 | 1/1/12/20 | 6/21/99/115 | - |
| 29 | CLA | B | 835 | 2 | 1/1/11/20 | 1/16/94/115 | - |
| 29 | CLA | B | 802 | 41 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | k | 614 | 21 | 1/1/12/20 | 11/21/99/115 | - |
| 38 | II0 | d | 314 | - | - | 3/21/67/67 | 0/2/2/2 |
| 29 | CLA | A | 828 | 1 | 1/1/15/20 | 7/37/115/115 | - |
| 32 | WVN | A | 847 | - | - | 18/29/63/63 | 0/2/2/2 |
| 31 | LHG | f | 619 | - | - | 18/53/53/53 | - |
| 38 | II0 | j | 316 | - | - | 13/21/67/67 | 0/2/2/2 |
| 29 | CLA | h | 307 | 17 | 1/1/12/20 | 5/21/99/115 | - |
| 29 | CLA | Q | 302 | - | 1/1/15/20 | 19/37/115/115 | - |
| 29 | CLA | A | 832 | 1 | 1/1/15/20 | 6/37/115/115 | - |
| 29 | CLA | B | 842 | 31 | 1/1/15/20 | 5/37/115/115 | - |
| 38 | II0 | n | 616 | - | - | 10/21/67/67 | 0/2/2/2 |
| 29 | CLA | j | 307 | 18 | 1/1/12/20 | 3/21/99/115 | - |
| 39 | IHT | n | 617 | - | - | 6/25/65/65 | 0/2/2/2 |
| 31 | LHG | s | 408 | - | - | 12/34/34/53 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 34 | SF4 | C | 102 | 3 | - | - | 0/6/5/5 |
| 29 | CLA | B | 809 | 2 | 1/1/15/20 | 7/37/115/115 | - |
| 29 | CLA | B | 810 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 38 | II0 | b | 301 | - | - | 13/21/67/67 | 0/2/2/2 |
| 29 | CLA | m | 612 | 41 | 1/1/12/20 | 9/21/99/115 | - |
| 38 | II0 | k | 616 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | k | 603 | 21 | 1/1/12/20 | 0/21/99/115 | - |
| 29 | CLA | n | 606 | 26 | 1/1/12/20 | 3/21/99/115 | - |
| 29 | CLA | l | 306 | 20 | 1/1/15/20 | 17/37/115/115 | - |
| 39 | IHT | j | 317 | - | - | 2/25/65/65 | 0/2/2/2 |
| 40 | KC2 | d | 311 | - | - | 12/15/71/71 | - |
| 29 | CLA | g | 306 | 24 | 1/1/15/20 | 12/37/115/115 | - |
| 38 | II0 | l | 313 | - | - | 12/21/67/67 | 0/2/2/2 |
| 39 | IHT | c | 319 | - | - | 8/25/65/65 | 0/2/2/2 |
| 29 | CLA | f | 610 | 31 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | d | 302 | 23 | 1/1/14/20 | 17/34/112/115 | - |
| 29 | CLA | A | 827 | 1 | 1/1/14/20 | 7/34/112/115 | - |
| 29 | CLA | B | 831 | 41 | 1/1/15/20 | 7/37/115/115 | - |
| 29 | CLA | A | 821 | 1 | 1/1/11/20 | 6/18/96/115 | - |
| 29 | CLA | c | 306 | 14 | 1/1/12/20 | 7/22/100/115 | - |
| 29 | CLA | n | 610 | - | 1/1/14/20 | 14/31/109/115 | - |
| 32 | WVN | F | 207 | - | - | 18/29/63/63 | 0/2/2/2 |
| 29 | CLA | l | 304 | 20 | 1/1/15/20 | 14/37/115/115 | - |
| 29 | CLA | n | 609 | 26 | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | F | 203 | 6 | 1/1/12/20 | 9/22/100/115 | - |
| 40 | KC2 | e | 309 | - | - | 9/15/71/71 | - |
| 38 | II0 | k | 619 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | k | 609 | 21 | 1/1/13/20 | 9/28/106/115 | - |
| 29 | CLA | A | 816 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | e | 303 | 19 | 1/1/12/20 | 6/21/99/115 | - |
| 38 | II0 | e | 313 | - | - | 13/21/67/67 | 0/2/2/2 |
| 29 | CLA | i | 303 | 22 | 1/1/15/20 | 16/37/115/115 | - |
| 34 | SF4 | A | 852 | 2,1 | - | - | 0/6/5/5 |
| 29 | CLA | c | 304 | 14 | 1/1/14/20 | 15/34/112/115 | - |
| 40 | KC2 | l | 311 | - | - | 6/15/71/71 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 38 | II0 | e | 312 | - | - | 14/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 806 | 2 | 1/1/15/20 | 14/37/115/115 | - |
| 29 | CLA | A | 808 | 1 | 1/1/15/20 | 8/37/115/115 | - |
| 32 | WVN | B | 845 | - | - | 6/29/63/63 | 0/2/2/2 |
| 29 | CLA | B | 816 | 2 | 1/1/15/20 | 17/37/115/115 | - |
| 32 | WVN | h | 308 | - | - | 18/29/63/63 | 0/2/2/2 |
| 29 | CLA | A | 851 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 39 | IHT | m | 617 | - | - | 2/25/65/65 | 0/2/2/2 |
| 38 | II0 | i | 319 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | g | 308 | 24 | 1/1/12/20 | 5/21/99/115 | - |
| 38 | II0 | a | 315 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 825 | 2 | 1/1/15/20 | 18/37/115/115 | - |
| 29 | CLA | B | 812 | 2 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | A | 807 | 1 | 1/1/15/20 | 7/37/115/115 | - |
| 38 | II0 | d | 301 | - | - | 14/21/67/67 | 0/2/2/2 |
| 29 | CLA | a | 302 | 15 | 1/1/15/20 | 11/37/115/115 | - |
| 31 | LHG | A | 848 | - | - | 14/27/27/53 | - |
| 35 | SQD | A | 853 | - | - | 19/49/69/69 | 0/1/1/1 |
| 29 | CLA | A | 850 | 41 | 1/1/15/20 | 3/37/115/115 | - |
| 29 | CLA | e | 301 | 19 | 1/1/11/20 | 8/13/91/115 | - |
| 38 | II0 | n | 615 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | O | 206 | 11 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | c | 302 | 14 | 1/1/14/20 | 16/31/109/115 | - |
| 33 | LMU | a | 319 | - | - | 13/21/61/61 | 0/2/2/2 |
| 29 | CLA | A | 806 | 1 | 1/1/14/20 | 5/31/109/115 | - |
| 32 | WVN | A | 845 | - | - | 17/29/63/63 | 0/2/2/2 |
| 29 | CLA | m | 606 | 18 | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | g | 309 | 24 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | c | 309 | 31 | 1/1/11/20 | 4/13/91/115 | - |
| 38 | II0 | f | 618 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | b | 305 | 16 | 1/1/15/20 | 13/37/115/115 | - |
| 31 | LHG | c | 316 | 29 | - | 19/41/41/53 | - |
| 29 | CLA | A | 805 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | i | 305 | 22 | - | 13/37/115/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | a | 303 | 15 | 1/1/13/20 | 5/27/105/115 | - |
| 38 | II0 | h | 311 | - | - | 12/21/67/67 | 0/2/2/2 |
| 29 | CLA | L | 204 | 41 | 1/1/14/20 | 4/31/109/115 | - |
| 29 | CLA | f | 603 | 18 | 1/1/12/20 | 6/21/99/115 | - |
| 29 | CLA | f | 608 | 18 | 1/1/15/20 | 7/37/115/115 | - |
| 29 | CLA | A | 815 | 41 | 1/1/11/20 | 7/13/91/115 | - |
| 29 | CLA | m | 608 | 18 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | b | 302 | 16 | 1/1/12/20 | 4/21/99/115 | - |
| 29 | CLA | l | 309 | 20 | 1/1/13/20 | 8/28/106/115 | - |
| 29 | CLA | b | 310 | 16 | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | A | 813 | 1 | 1/1/13/20 | 9/27/105/115 | - |
| 29 | CLA | n | 601 | 26 | 1/1/11/20 | 5/13/91/115 | - |
| 40 | KC2 | g | 315 | 40 | - | 7/15/71/71 | - |
| 29 | CLA | m | 604 | 18 | 1/1/15/20 | 12/37/115/115 | - |
| 32 | WVN | l | 316 | - | - | 19/29/63/63 | 0/2/2/2 |
| 37 | LMG | c | 317 | - | - | 21/50/70/70 | 0/1/1/1 |
| 38 | II0 | J | 103 | - | - | 14/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 821 | 2 | 1/1/12/20 | 5/23/101/115 | - |
| 29 | CLA | f | 607 | 18 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | c | 303 | 14 | 1/1/12/20 | 6/21/99/115 | - |
| 29 | CLA | A | 833 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | J | 102 | 8 | 1/1/10/20 | 3/10/88/115 | - |
| 29 | CLA | A | 819 | 1 | 1/1/15/20 | 19/37/115/115 | - |
| 38 | II0 | m | 615 | - | - | 12/21/67/67 | 0/2/2/2 |
| 28 | CL0 | A | 801 | - | 2/2/20/25 | 9/37/135/135 | - |
| 32 | WVN | F | 204 | - | - | 14/29/63/63 | 0/2/2/2 |
| 29 | CLA | A | 814 | 1 | 1/1/12/20 | 8/19/97/115 | - |
| 38 | II0 | l | 314 | - | - | 11/21/67/67 | 0/2/2/2 |
| 32 | WVN | L | 205 | - | - | 16/29/63/63 | 0/2/2/2 |
| 37 | LMG | L | 210 | - | - | 20/40/60/70 | 0/1/1/1 |
| 38 | II0 | a | 314 | - | - | 10/21/67/67 | 0/2/2/2 |
| 29 | CLA | A | 835 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | k | 606 | 21 | 1/1/12/20 | 5/21/99/115 | - |
| 29 | CLA | A | 818 | 1 | 1/1/15/20 | 15/37/115/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | a | 308 | 15 | 1/1/15/20 | 11/37/115/115 | - |
| 38 | II0 | i | 316 | - | - | 12/21/67/67 | 0/2/2/2 |
| 32 | WVN | B | 847 | - | - | 14/29/63/63 | 0/2/2/2 |
| 29 | CLA | i | 307 | 22 | 1/1/14/20 | 9/33/111/115 | - |
| 36 | DGD | j | 319 | - | - | 23/51/91/95 | 0/2/2/2 |
| 40 | KC2 | s | 404 | - | - | 2/15/71/71 | - |
| 38 | II0 | O | 203 | - | - | 4/21/67/67 | 0/2/2/2 |
| 29 | CLA | A | 817 | 1 | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | k | 610 | - | 1/1/12/20 | 8/21/99/115 | - |
| 29 | CLA | n | 613 | 26 | 1/1/12/20 | 8/21/99/115 | - |
| 29 | CLA | k | 608 | 21 | 1/1/15/20 | 9/37/115/115 | - |
| 30 | PQN | B | 843 | - | - | 8/23/43/43 | 0/2/2/2 |
| 29 | CLA | j | 308 | 18 | 1/1/12/20 | 9/21/99/115 | - |
| 32 | WVN | F | 205 | - | - | 21/29/63/63 | 0/2/2/2 |
| 39 | IHT | R | 204 | - | - | 1/25/65/65 | 0/2/2/2 |
| 29 | CLA | B | 807 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 32 | WVN | l | 302 | - | - | 16/29/63/63 | 0/2/2/2 |
| 40 | KC2 | f | 611 | - | - | 8/15/71/71 | - |
| 33 | LMU | A | 855 | - | - | 17/20/60/61 | 0/2/2/2 |
| 29 | CLA | l | 308 | 20 | 1/1/15/20 | 6/37/115/115 | - |
| 29 | CLA | c | 307 | 14 | 1/1/11/20 | 9/15/93/115 | - |
| 29 | CLA | f | 606 | 18 | 1/1/12/20 | 4/21/99/115 | - |
| 31 | LHG | n | 619 | - | - | 20/47/47/53 | - |
| 38 | II0 | i | 314 | - | - | 10/21/67/67 | 0/2/2/2 |
| 40 | KC2 | g | 314 | 40,24 | - | 10/15/71/71 | - |
| 29 | CLA | s | 403 | 13 | 1/1/15/20 | 8/37/115/115 | - |
| 29 | CLA | m | 602 | 18 | 1/1/14/20 | 13/31/109/115 | - |
| 29 | CLA | f | 609 | 18 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | h | 302 | 17 | 1/1/12/20 | 6/19/97/115 | - |
| 29 | CLA | n | 602 | 26 | 1/1/12/20 | 5/19/97/115 | - |
| 29 | CLA | f | 601 | 18 | 1/1/11/20 | 4/16/94/115 | - |
| 29 | CLA | g | 323 | 31 | 1/1/13/20 | 7/25/103/115 | - |
| 29 | CLA | B | 805 | 2 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | d | 304 | 23 | 1/1/11/20 | 8/13/91/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | j | 309 | 18 | 1/1/11/20 | 4/13/91/115 | - |
| 29 | CLA | h | 303 | 17 | 1/1/12/20 | 6/19/97/115 | - |
| 31 | LHG | A | 842 | - | - | 23/52/52/53 | - |
| 29 | CLA | c | 312 | 14 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | B | 839 | 2 | 1/1/13/20 | 8/28/106/115 | - |
| 29 | CLA | s | 406 | 41 | 1/1/15/20 | 12/37/115/115 | - |
| 32 | WVN | A | 854 | - | - | 19/29/63/63 | 0/2/2/2 |
| 29 | CLA | h | 301 | 41 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | a | 305 | 41 | 1/1/15/20 | 8/37/115/115 | - |
| 33 | LMU | i | 301 | - | - | 13/21/61/61 | 0/2/2/2 |
| 29 | CLA | O | 201 | 31 | 1/1/12/20 | 9/22/100/115 | - |
| 29 | CLA | a | 306 | 15 | 1/1/11/20 | 7/13/91/115 | - |
| 29 | CLA | R | 203 | 25 | 1/1/13/20 | 5/25/103/115 | - |
| 29 | CLA | b | 308 | 16 | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | a | 310 | 15 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | i | 309 | 31 | 1/1/11/20 | 6/15/93/115 | - |
| 29 | CLA | A | 831 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | A | 812 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | n | 607 | 26 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | d | 313 | 23 | 1/1/12/20 | 8/21/99/115 | - |
| 38 | II0 | c | 314 | - | - | 4/21/67/67 | 0/2/2/2 |
| 39 | IHT | g | 324 | 29 | - | 7/25/65/65 | 0/2/2/2 |
| 29 | CLA | k | 607 | 21 | 1/1/12/20 | 6/21/99/115 | - |
| 29 | CLA | L | 207 | 41 | 1/1/12/20 | 8/21/99/115 | - |
| 32 | WVN | i | 315 | - | - | 18/29/63/63 | 0/2/2/2 |
| 38 | II0 | b | 315 | - | - | 10/21/67/67 | 0/2/2/2 |
| 29 | CLA | h | 305 | 17 | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | k | 602 | 21 | 1/1/15/20 | 17/37/115/115 | - |
| 32 | WVN | A | 846 | - | - | 15/29/63/63 | 0/2/2/2 |
| 29 | CLA | e | 304 | - | 1/1/15/20 | 14/37/115/115 | - |
| 38 | II0 | m | 614 | - | - | 13/21/67/67 | 0/2/2/2 |
| 29 | CLA | j | 302 | 18 | 1/1/15/20 | 14/37/115/115 | - |
| 29 | CLA | B | 817 | 2 | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | f | 612 | 41 | 1/1/12/20 | 10/21/99/115 | - |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 29 | CLA | l | 305 | 20 | 1/1/12/20 | 0/21/99/115 | - |
| 29 | CLA | d | 307 | 23 | 1/1/11/20 | 6/13/91/115 | - |
| 40 | KC2 | d | 312 | 23 | - | 12/15/71/71 | - |
| 29 | CLA | b | 309 | 37 | 1/1/15/20 | 3/37/115/115 | - |
| 38 | II0 | e | 316 | - | - | 13/21/67/67 | 0/2/2/2 |
| 38 | II0 | h | 310 | - | - | 11/21/67/67 | 0/2/2/2 |
| 29 | CLA | O | 202 | 41 | 1/1/15/20 | 8/37/115/115 | - |
| 29 | CLA | B | 804 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | e | 307 | 19 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | B | 829 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 29 | CLA | j | 313 | - | 1/1/12/20 | 10/21/99/115 | - |
| 29 | CLA | m | 609 | 18 | 1/1/14/20 | 15/31/109/115 | - |
| 31 | LHG | c | 320 | - | - | 23/53/53/53 | - |
| 38 | II0 | d | 317 | - | - | 13/21/67/67 | 0/2/2/2 |
| 38 | II0 | m | 616 | - | - | 11/21/67/67 | 0/2/2/2 |
| 31 | LHG | e | 317 | 29 | - | 21/41/41/53 | - |
| 29 | CLA | b | 307 | 16 | 1/1/14/20 | 6/33/111/115 | - |
| 29 | CLA | A | 803 | 1 | 1/1/13/20 | 7/25/103/115 | - |
| 29 | CLA | j | 306 | 18 | 1/1/11/20 | 8/13/91/115 | - |
| 29 | CLA | B | 841 | 2 | 1/1/15/20 | 20/37/115/115 | - |
| 29 | CLA | e | 311 | 19 | 1/1/15/20 | 16/37/115/115 | - |
| 40 | KC2 | s | 401 | 13 | - | 7/15/71/71 | - |
| 29 | CLA | A | 836 | 1 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | f | 602 | 18 | 1/1/15/20 | 18/37/115/115 | - |
| 40 | KC2 | i | 318 | 22 | - | 8/15/71/71 | - |
| 29 | CLA | B | 822 | 41 | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | A | 840 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 40 | KC2 | n | 611 | - | - | 5/15/71/71 | - |
| 38 | II0 | l | 315 | - | - | 11/21/67/67 | 0/2/2/2 |
| 38 | II0 | a | 317 | - | - | 13/21/67/67 | 0/2/2/2 |
| 29 | CLA | m | 610 | 31 | 1/1/13/20 | 16/25/103/115 | - |
| 40 | KC2 | k | 611 | - | - | 8/15/71/71 | - |
| 31 | LHG | m | 619 | 29 | - | 13/41/41/53 | - |
| 38 | II0 | g | 318 | - | - | 13/21/67/67 | 0/2/2/2 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|---|---|---|---|---|---|---|---|
| 37 | LMG | c | 318 | 29 | - | 21/38/58/70 | 0/1/1/1 |
| 38 | II0 | b | 314 | - | - | 13/21/67/67 | 0/2/2/2 |
| 32 | WVN | M | 101 | - | - | 17/29/63/63 | 0/2/2/2 |
| 29 | CLA | B | 815 | 2 | 1/1/13/20 | 3/25/103/115 | - |
| 29 | CLA | K | 102 | 12 | 1/1/10/20 | 4/10/88/115 | - |
| 29 | CLA | A | 838 | 1 | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | d | 318 | - | 1/1/11/20 | 6/13/91/115 | - |
| 29 | CLA | B | 813 | 2 | 1/1/14/20 | 13/31/109/115 | - |
| 29 | CLA | e | 305 | 19 | 1/1/15/20 | 8/37/115/115 | - |
| 38 | II0 | d | 319 | - | - | 7/21/67/67 | 0/2/2/2 |
| 29 | CLA | B | 808 | 2 | 1/1/15/20 | 5/37/115/115 | - |
| 29 | CLA | d | 305 | 23 | 1/1/12/20 | 5/21/99/115 | - |
| 38 | II0 | h | 309 | - | - | 12/17/40/67 | 0/1/1/2 |
| 36 | DGD | B | 844 | - | - | 28/55/95/95 | 0/2/2/2 |
| 29 | CLA | B | 838 | 2 | 1/1/15/20 | 13/37/115/115 | - |
| 33 | LMU | A | 849 | - | - | 16/21/61/61 | 0/2/2/2 |
| 37 | LMG | b | 319 | - | - | 17/37/57/70 | 0/1/1/1 |
| 29 | CLA | n | 608 | 26 | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | g | 311 | 24 | 1/1/15/20 | 19/37/115/115 | - |
| 32 | WVN | s | 405 | - | - | 14/29/63/63 | 0/2/2/2 |
| 31 | LHG | i | 317 | 29 | - | 16/41/41/53 | - |
| 29 | CLA | e | 302 | 19 | 1/1/15/20 | 17/37/115/115 | - |

All (3619) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | k | 615 | II0 | C14-C10 | 20.53 | 1.57 | 1.34 |
| 38 | g | 317 | II0 | C13-C09 | 20.15 | 1.57 | 1.34 |
| 38 | l | 315 | II0 | C13-C09 | 20.10 | 1.57 | 1.34 |
| 38 | d | 315 | II0 | C14-C10 | 19.87 | 1.57 | 1.34 |
| 38 | e | 314 | II0 | C13-C09 | 19.81 | 1.57 | 1.34 |
| 38 | h | 311 | II0 | C13-C09 | 19.74 | 1.56 | 1.34 |
| 38 | a | 313 | II0 | C13-C09 | 19.69 | 1.56 | 1.34 |
| 38 | h | 309 | II0 | C13-C09 | 19.61 | 1.56 | 1.34 |
| 38 | f | 616 | II0 | C13-C09 | 19.58 | 1.56 | 1.34 |
| 38 | b | 301 | II0 | C14-C10 | 19.57 | 1.56 | 1.34 |
| 38 | a | 314 | II0 | C13-C09 | 19.55 | 1.56 | 1.34 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | i | 314 | II0 | C14-C10 | 19.48 | 1.56 | 1.34 |
| 38 | n | 618 | II0 | C13-C09 | 19.41 | 1.56 | 1.34 |
| 38 | m | 614 | II0 | C13-C09 | 19.39 | 1.56 | 1.34 |
| 38 | d | 317 | II0 | C14-C10 | 19.36 | 1.56 | 1.34 |
| 38 | f | 615 | II0 | C14-C10 | 19.33 | 1.56 | 1.34 |
| 38 | n | 615 | II0 | C13-C09 | 19.29 | 1.56 | 1.34 |
| 38 | i | 314 | II0 | C13-C09 | 19.29 | 1.56 | 1.34 |
| 38 | m | 615 | II0 | C14-C10 | 19.20 | 1.56 | 1.34 |
| 38 | f | 618 | II0 | C13-C09 | 19.15 | 1.56 | 1.34 |
| 38 | j | 316 | II0 | C14-C10 | 19.13 | 1.56 | 1.34 |
| 38 | d | 316 | II0 | C14-C10 | 19.13 | 1.56 | 1.34 |
| 38 | k | 616 | II0 | C14-C10 | 19.12 | 1.56 | 1.34 |
| 38 | n | 616 | II0 | C14-C10 | 19.11 | 1.56 | 1.34 |
| 38 | m | 618 | II0 | C13-C09 | 19.07 | 1.56 | 1.34 |
| 38 | g | 318 | II0 | C14-C10 | 19.06 | 1.56 | 1.34 |
| 38 | m | 618 | II0 | C14-C10 | 19.05 | 1.56 | 1.34 |
| 38 | f | 618 | II0 | C14-C10 | 18.98 | 1.56 | 1.34 |
| 38 | l | 314 | II0 | C14-C10 | 18.96 | 1.56 | 1.34 |
| 38 | m | 616 | II0 | C14-C10 | 18.94 | 1.56 | 1.34 |
| 38 | n | 618 | II0 | C14-C10 | 18.94 | 1.56 | 1.34 |
| 38 | a | 317 | II0 | C13-C09 | 18.90 | 1.56 | 1.34 |
| 38 | i | 313 | II0 | C14-C10 | 18.87 | 1.56 | 1.34 |
| 38 | m | 614 | II0 | C14-C10 | 18.87 | 1.55 | 1.34 |
| 38 | m | 615 | II0 | C13-C09 | 18.85 | 1.55 | 1.34 |
| 38 | d | 316 | II0 | C13-C09 | 18.84 | 1.55 | 1.34 |
| 38 | l | 315 | II0 | C14-C10 | 18.83 | 1.55 | 1.34 |
| 38 | a | 317 | II0 | C14-C10 | 18.79 | 1.55 | 1.34 |
| 38 | j | 315 | II0 | C13-C09 | 18.79 | 1.55 | 1.34 |
| 38 | g | 317 | II0 | C14-C10 | 18.77 | 1.55 | 1.34 |
| 38 | j | 301 | II0 | C14-C10 | 18.69 | 1.55 | 1.34 |
| 38 | j | 301 | II0 | C13-C09 | 18.65 | 1.55 | 1.34 |
| 38 | e | 312 | II0 | C13-C09 | 18.58 | 1.55 | 1.34 |
| 38 | i | 319 | II0 | C13-C09 | 18.57 | 1.55 | 1.34 |
| 38 | m | 616 | II0 | C13-C09 | 18.56 | 1.55 | 1.34 |
| 38 | e | 314 | II0 | C14-C10 | 18.53 | 1.55 | 1.34 |
| 38 | d | 315 | II0 | C13-C09 | 18.51 | 1.55 | 1.34 |
| 38 | i | 316 | II0 | C14-C10 | 18.50 | 1.55 | 1.34 |
| 38 | b | 301 | II0 | C13-C09 | 18.49 | 1.55 | 1.34 |
| 38 | f | 614 | II0 | C14-C10 | 18.40 | 1.55 | 1.34 |
| 38 | l | 313 | II0 | C14-C10 | 18.38 | 1.55 | 1.34 |
| 38 | e | 313 | II0 | C14-C10 | 18.36 | 1.55 | 1.34 |
| 38 | c | 313 | II0 | C14-C10 | 18.35 | 1.55 | 1.34 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | d | 301 | II0 | C14-C10 | 18.30 | 1.55 | 1.34 |
| 38 | k | 616 | II0 | C13-C09 | 18.15 | 1.55 | 1.34 |
| 38 | a | 315 | II0 | C14-C10 | 18.12 | 1.55 | 1.34 |
| 38 | k | 619 | II0 | C13-C09 | 18.07 | 1.55 | 1.34 |
| 38 | c | 313 | II0 | C13-C09 | 17.95 | 1.54 | 1.34 |
| 38 | i | 316 | II0 | C13-C09 | 17.91 | 1.54 | 1.34 |
| 38 | i | 319 | II0 | C14-C10 | 17.79 | 1.54 | 1.34 |
| 38 | h | 310 | II0 | C13-C09 | 17.76 | 1.54 | 1.34 |
| 38 | l | 314 | II0 | C13-C09 | 17.74 | 1.54 | 1.34 |
| 38 | d | 301 | II0 | C13-C09 | 17.68 | 1.54 | 1.34 |
| 38 | k | 619 | II0 | C14-C10 | 17.65 | 1.54 | 1.34 |
| 38 | b | 314 | II0 | C13-C09 | 17.61 | 1.54 | 1.34 |
| 38 | f | 614 | II0 | C13-C09 | 17.59 | 1.54 | 1.34 |
| 38 | f | 615 | II0 | C13-C09 | 17.55 | 1.54 | 1.34 |
| 38 | k | 620 | II0 | C14-C10 | 17.55 | 1.54 | 1.34 |
| 38 | b | 315 | II0 | C13-C09 | 17.54 | 1.54 | 1.34 |
| 38 | g | 318 | II0 | C13-C09 | 17.53 | 1.54 | 1.34 |
| 38 | h | 311 | II0 | C14-C10 | 17.52 | 1.54 | 1.34 |
| 38 | g | 319 | II0 | C13-C09 | 17.51 | 1.54 | 1.34 |
| 38 | n | 616 | II0 | C13-C09 | 17.51 | 1.54 | 1.34 |
| 38 | J | 103 | II0 | C13-C09 | 17.50 | 1.54 | 1.34 |
| 38 | e | 313 | II0 | C13-C09 | 17.48 | 1.54 | 1.34 |
| 38 | k | 615 | II0 | C13-C09 | 17.44 | 1.54 | 1.34 |
| 38 | i | 313 | II0 | C13-C09 | 17.43 | 1.54 | 1.34 |
| 38 | k | 620 | II0 | C13-C09 | 17.41 | 1.54 | 1.34 |
| 38 | l | 313 | II0 | C13-C09 | 17.40 | 1.54 | 1.34 |
| 38 | d | 317 | II0 | C13-C09 | 17.39 | 1.54 | 1.34 |
| 38 | n | 615 | II0 | C14-C10 | 17.36 | 1.54 | 1.34 |
| 38 | b | 315 | II0 | C14-C10 | 17.33 | 1.54 | 1.34 |
| 38 | j | 316 | II0 | C13-C09 | 17.28 | 1.54 | 1.34 |
| 38 | a | 315 | II0 | C13-C09 | 17.21 | 1.54 | 1.34 |
| 38 | j | 315 | II0 | C14-C10 | 17.20 | 1.54 | 1.34 |
| 38 | J | 103 | II0 | C14-C10 | 17.16 | 1.54 | 1.34 |
| 38 | b | 314 | II0 | C14-C10 | 17.16 | 1.54 | 1.34 |
| 38 | a | 314 | II0 | C14-C10 | 17.13 | 1.54 | 1.34 |
| 38 | g | 319 | II0 | C14-C10 | 17.12 | 1.54 | 1.34 |
| 38 | h | 310 | II0 | C14-C10 | 17.09 | 1.54 | 1.34 |
| 38 | f | 616 | II0 | C14-C10 | 17.08 | 1.54 | 1.34 |
| 38 | e | 312 | II0 | C14-C10 | 17.06 | 1.53 | 1.34 |
| 38 | a | 313 | II0 | C14-C10 | 17.04 | 1.53 | 1.34 |
| 32 | e | 315 | WVN | C26-C22 | 15.44 | 1.56 | 1.35 |
| 32 | M | 101 | WVN | C26-C22 | 15.43 | 1.56 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | A | 847 | WVN | C26-C22 | 15.39 | 1.56 | 1.35 |
| 32 | h | 308 | WVN | C26-C22 | 15.36 | 1.56 | 1.35 |
| 32 | L | 205 | WVN | C26-C22 | 15.23 | 1.56 | 1.35 |
| 32 | l | 316 | WVN | C26-C22 | 15.17 | 1.55 | 1.35 |
| 32 | s | 407 | WVN | C26-C22 | 15.10 | 1.55 | 1.35 |
| 32 | i | 315 | WVN | C26-C22 | 15.06 | 1.55 | 1.35 |
| 38 | i | 314 | II0 | C40-C36 | 15.02 | 1.55 | 1.35 |
| 32 | A | 844 | WVN | C26-C22 | 15.00 | 1.55 | 1.35 |
| 32 | L | 201 | WVN | C26-C22 | 14.97 | 1.55 | 1.35 |
| 32 | s | 405 | WVN | C26-C22 | 14.96 | 1.55 | 1.35 |
| 38 | a | 314 | II0 | C40-C36 | 14.89 | 1.55 | 1.35 |
| 32 | J | 101 | WVN | C26-C22 | 14.88 | 1.55 | 1.35 |
| 38 | l | 314 | II0 | C40-C36 | 14.85 | 1.55 | 1.35 |
| 32 | A | 854 | WVN | C26-C22 | 14.85 | 1.55 | 1.35 |
| 32 | B | 849 | WVN | C26-C22 | 14.85 | 1.55 | 1.35 |
| 32 | B | 847 | WVN | C26-C22 | 14.84 | 1.55 | 1.35 |
| 32 | R | 202 | WVN | C26-C22 | 14.82 | 1.55 | 1.35 |
| 32 | K | 103 | WVN | C26-C22 | 14.81 | 1.55 | 1.35 |
| 32 | l | 302 | WVN | C26-C22 | 14.77 | 1.55 | 1.35 |
| 32 | R | 201 | WVN | C26-C22 | 14.77 | 1.55 | 1.35 |
| 32 | I | 101 | WVN | C26-C22 | 14.75 | 1.55 | 1.35 |
| 32 | B | 848 | WVN | C26-C22 | 14.71 | 1.55 | 1.35 |
| 32 | A | 846 | WVN | C26-C22 | 14.68 | 1.55 | 1.35 |
| 38 | d | 317 | II0 | C40-C36 | 14.60 | 1.55 | 1.35 |
| 32 | F | 207 | WVN | C26-C22 | 14.58 | 1.55 | 1.35 |
| 32 | L | 206 | WVN | C26-C22 | 14.55 | 1.55 | 1.35 |
| 32 | A | 845 | WVN | C26-C22 | 14.55 | 1.55 | 1.35 |
| 38 | i | 319 | II0 | C40-C36 | 14.54 | 1.55 | 1.35 |
| 38 | k | 616 | II0 | C40-C36 | 14.46 | 1.55 | 1.35 |
| 32 | l | 316 | WVN | C37-C34 | 14.43 | 1.54 | 1.35 |
| 32 | F | 204 | WVN | C26-C22 | 14.43 | 1.54 | 1.35 |
| 38 | g | 318 | II0 | C40-C36 | 14.42 | 1.54 | 1.35 |
| 38 | e | 313 | II0 | C40-C36 | 14.40 | 1.54 | 1.35 |
| 38 | d | 315 | II0 | C40-C36 | 14.38 | 1.54 | 1.35 |
| 38 | l | 313 | II0 | C40-C36 | 14.35 | 1.54 | 1.35 |
| 38 | c | 313 | II0 | C40-C36 | 14.32 | 1.54 | 1.35 |
| 38 | m | 615 | II0 | C40-C36 | 14.32 | 1.54 | 1.35 |
| 32 | B | 846 | WVN | C26-C22 | 14.32 | 1.54 | 1.35 |
| 38 | m | 618 | II0 | C40-C36 | 14.31 | 1.54 | 1.35 |
| 38 | i | 313 | II0 | C40-C36 | 14.29 | 1.54 | 1.35 |
| 38 | f | 614 | II0 | C40-C36 | 14.27 | 1.54 | 1.35 |
| 38 | h | 309 | II0 | C40-C36 | 14.27 | 1.54 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | f | 616 | II0 | C40-C36 | 14.25 | 1.54 | 1.35 |
| 38 | e | 312 | II0 | C40-C36 | 14.22 | 1.54 | 1.35 |
| 38 | m | 616 | II0 | C40-C36 | 14.21 | 1.54 | 1.35 |
| 38 | n | 618 | II0 | C40-C36 | 14.20 | 1.54 | 1.35 |
| 32 | s | 407 | WVN | C37-C34 | 14.19 | 1.54 | 1.35 |
| 38 | g | 317 | II0 | C40-C36 | 14.18 | 1.54 | 1.35 |
| 32 | A | 847 | WVN | C37-C34 | 14.18 | 1.54 | 1.35 |
| 32 | R | 202 | WVN | C37-C34 | 14.16 | 1.54 | 1.35 |
| 38 | J | 103 | II0 | C40-C36 | 14.16 | 1.54 | 1.35 |
| 38 | j | 316 | II0 | C40-C36 | 14.16 | 1.54 | 1.35 |
| 38 | a | 313 | II0 | C40-C36 | 14.16 | 1.54 | 1.35 |
| 38 | f | 615 | II0 | C40-C36 | 14.15 | 1.54 | 1.35 |
| 38 | i | 316 | II0 | C40-C36 | 14.13 | 1.54 | 1.35 |
| 32 | e | 315 | WVN | C37-C34 | 14.12 | 1.54 | 1.35 |
| 38 | l | 314 | II0 | C39-C35 | 14.11 | 1.54 | 1.35 |
| 32 | B | 846 | WVN | C37-C34 | 14.11 | 1.54 | 1.35 |
| 38 | b | 315 | II0 | C40-C36 | 14.10 | 1.54 | 1.35 |
| 38 | n | 616 | II0 | C40-C36 | 14.10 | 1.54 | 1.35 |
| 32 | M | 101 | WVN | C37-C34 | 14.09 | 1.54 | 1.35 |
| 38 | g | 319 | II0 | C40-C36 | 14.09 | 1.54 | 1.35 |
| 32 | A | 846 | WVN | C37-C34 | 14.09 | 1.54 | 1.35 |
| 32 | F | 207 | WVN | C36-C32 | 14.08 | 1.54 | 1.35 |
| 32 | I | 101 | WVN | C37-C34 | 14.08 | 1.54 | 1.35 |
| 32 | L | 201 | WVN | C37-C34 | 14.08 | 1.54 | 1.35 |
| 32 | A | 854 | WVN | C37-C34 | 14.07 | 1.54 | 1.35 |
| 32 | F | 204 | WVN | C36-C32 | 14.07 | 1.54 | 1.35 |
| 38 | a | 317 | II0 | C40-C36 | 14.06 | 1.54 | 1.35 |
| 32 | R | 202 | WVN | C36-C32 | 14.05 | 1.54 | 1.35 |
| 32 | e | 315 | WVN | C36-C32 | 14.05 | 1.54 | 1.35 |
| 32 | K | 103 | WVN | C37-C34 | 14.04 | 1.54 | 1.35 |
| 38 | b | 301 | II0 | C40-C36 | 14.03 | 1.54 | 1.35 |
| 38 | n | 615 | II0 | C40-C36 | 14.02 | 1.54 | 1.35 |
| 32 | l | 316 | WVN | C36-C32 | 14.00 | 1.54 | 1.35 |
| 32 | s | 405 | WVN | C37-C34 | 13.99 | 1.54 | 1.35 |
| 38 | l | 315 | II0 | C40-C36 | 13.98 | 1.54 | 1.35 |
| 38 | a | 315 | II0 | C40-C36 | 13.98 | 1.54 | 1.35 |
| 38 | b | 314 | II0 | C40-C36 | 13.98 | 1.54 | 1.35 |
| 38 | f | 618 | II0 | C40-C36 | 13.98 | 1.54 | 1.35 |
| 38 | k | 620 | II0 | C40-C36 | 13.98 | 1.54 | 1.35 |
| 32 | J | 101 | WVN | C37-C34 | 13.96 | 1.54 | 1.35 |
| 32 | F | 207 | WVN | C37-C34 | 13.96 | 1.54 | 1.35 |
| 38 | h | 311 | II0 | C40-C36 | 13.96 | 1.54 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | A | 847 | WVN | C36-C32 | 13.96 | 1.54 | 1.35 |
| 38 | e | 314 | II0 | C40-C36 | 13.95 | 1.54 | 1.35 |
| 32 | M | 101 | WVN | C36-C32 | 13.95 | 1.54 | 1.35 |
| 32 | A | 846 | WVN | C28-C25 | 13.90 | 1.54 | 1.35 |
| 32 | h | 308 | WVN | C37-C34 | 13.90 | 1.54 | 1.35 |
| 38 | d | 316 | II0 | C40-C36 | 13.89 | 1.54 | 1.35 |
| 32 | l | 316 | WVN | C28-C25 | 13.88 | 1.54 | 1.35 |
| 38 | k | 615 | II0 | C40-C36 | 13.88 | 1.54 | 1.35 |
| 38 | j | 301 | II0 | C40-C36 | 13.87 | 1.54 | 1.35 |
| 32 | L | 205 | WVN | C37-C34 | 13.87 | 1.54 | 1.35 |
| 32 | A | 854 | WVN | C36-C32 | 13.86 | 1.54 | 1.35 |
| 38 | h | 310 | II0 | C40-C36 | 13.86 | 1.54 | 1.35 |
| 32 | B | 846 | WVN | C28-C25 | 13.85 | 1.54 | 1.35 |
| 38 | j | 315 | II0 | C40-C36 | 13.84 | 1.54 | 1.35 |
| 32 | B | 847 | WVN | C37-C34 | 13.84 | 1.54 | 1.35 |
| 32 | L | 205 | WVN | C36-C32 | 13.83 | 1.54 | 1.35 |
| 32 | A | 844 | WVN | C37-C34 | 13.83 | 1.54 | 1.35 |
| 38 | m | 614 | II0 | C40-C36 | 13.83 | 1.54 | 1.35 |
| 32 | i | 315 | WVN | C36-C32 | 13.81 | 1.54 | 1.35 |
| 32 | s | 405 | WVN | C36-C32 | 13.81 | 1.54 | 1.35 |
| 38 | a | 314 | II0 | C39-C35 | 13.81 | 1.54 | 1.35 |
| 32 | F | 204 | WVN | C37-C34 | 13.80 | 1.54 | 1.35 |
| 32 | i | 315 | WVN | C37-C34 | 13.80 | 1.54 | 1.35 |
| 32 | F | 205 | WVN | C37-C34 | 13.79 | 1.54 | 1.35 |
| 32 | A | 845 | WVN | C37-C34 | 13.79 | 1.54 | 1.35 |
| 32 | l | 302 | WVN | C37-C34 | 13.79 | 1.54 | 1.35 |
| 32 | A | 844 | WVN | C36-C32 | 13.78 | 1.54 | 1.35 |
| 32 | B | 849 | WVN | C37-C34 | 13.77 | 1.54 | 1.35 |
| 32 | I | 101 | WVN | C36-C32 | 13.77 | 1.54 | 1.35 |
| 38 | g | 318 | II0 | C39-C35 | 13.77 | 1.54 | 1.35 |
| 38 | d | 316 | II0 | C39-C35 | 13.76 | 1.54 | 1.35 |
| 32 | R | 201 | WVN | C36-C32 | 13.75 | 1.54 | 1.35 |
| 32 | h | 308 | WVN | C36-C32 | 13.74 | 1.54 | 1.35 |
| 38 | k | 619 | II0 | C40-C36 | 13.73 | 1.54 | 1.35 |
| 38 | m | 615 | II0 | C39-C35 | 13.73 | 1.54 | 1.35 |
| 38 | j | 316 | II0 | C39-C35 | 13.73 | 1.54 | 1.35 |
| 32 | B | 848 | WVN | C36-C32 | 13.72 | 1.54 | 1.35 |
| 38 | b | 315 | II0 | C39-C35 | 13.72 | 1.54 | 1.35 |
| 32 | A | 845 | WVN | C36-C32 | 13.70 | 1.53 | 1.35 |
| 32 | l | 302 | WVN | C28-C25 | 13.69 | 1.53 | 1.35 |
| 32 | L | 206 | WVN | C37-C34 | 13.69 | 1.53 | 1.35 |
| 32 | R | 201 | WVN | C37-C34 | 13.69 | 1.53 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | A | 846 | WVN | C36-C32 | 13.68 | 1.53 | 1.35 |
| 38 | f | 615 | II0 | C39-C35 | 13.67 | 1.53 | 1.35 |
| 32 | R | 202 | WVN | C28-C25 | 13.67 | 1.53 | 1.35 |
| 38 | i | 314 | II0 | C39-C35 | 13.67 | 1.53 | 1.35 |
| 32 | s | 407 | WVN | C36-C32 | 13.67 | 1.53 | 1.35 |
| 32 | K | 103 | WVN | C36-C32 | 13.66 | 1.53 | 1.35 |
| 32 | I | 101 | WVN | C28-C25 | 13.65 | 1.53 | 1.35 |
| 32 | F | 205 | WVN | C36-C32 | 13.64 | 1.53 | 1.35 |
| 32 | B | 849 | WVN | C36-C32 | 13.63 | 1.53 | 1.35 |
| 32 | i | 315 | WVN | C28-C25 | 13.62 | 1.53 | 1.35 |
| 32 | L | 201 | WVN | C36-C32 | 13.61 | 1.53 | 1.35 |
| 32 | B | 847 | WVN | C28-C25 | 13.59 | 1.53 | 1.35 |
| 32 | L | 201 | WVN | C28-C25 | 13.58 | 1.53 | 1.35 |
| 38 | c | 313 | II0 | C39-C35 | 13.58 | 1.53 | 1.35 |
| 32 | A | 847 | WVN | C28-C25 | 13.58 | 1.53 | 1.35 |
| 32 | B | 848 | WVN | C37-C34 | 13.57 | 1.53 | 1.35 |
| 32 | B | 847 | WVN | C36-C32 | 13.57 | 1.53 | 1.35 |
| 38 | k | 616 | II0 | C39-C35 | 13.57 | 1.53 | 1.35 |
| 38 | d | 301 | II0 | C40-C36 | 13.56 | 1.53 | 1.35 |
| 38 | a | 313 | II0 | C39-C35 | 13.55 | 1.53 | 1.35 |
| 32 | s | 407 | WVN | C28-C25 | 13.54 | 1.53 | 1.35 |
| 32 | h | 308 | WVN | C28-C25 | 13.53 | 1.53 | 1.35 |
| 32 | J | 101 | WVN | C36-C32 | 13.52 | 1.53 | 1.35 |
| 38 | m | 614 | II0 | C39-C35 | 13.52 | 1.53 | 1.35 |
| 38 | n | 615 | II0 | C39-C35 | 13.51 | 1.53 | 1.35 |
| 32 | F | 205 | WVN | C28-C25 | 13.51 | 1.53 | 1.35 |
| 38 | b | 314 | II0 | C39-C35 | 13.50 | 1.53 | 1.35 |
| 38 | m | 616 | II0 | C39-C35 | 13.50 | 1.53 | 1.35 |
| 38 | e | 312 | II0 | C39-C35 | 13.47 | 1.53 | 1.35 |
| 38 | f | 614 | II0 | C39-C35 | 13.47 | 1.53 | 1.35 |
| 38 | f | 618 | II0 | C39-C35 | 13.47 | 1.53 | 1.35 |
| 32 | A | 844 | WVN | C28-C25 | 13.46 | 1.53 | 1.35 |
| 32 | l | 302 | WVN | C36-C32 | 13.46 | 1.53 | 1.35 |
| 32 | A | 854 | WVN | C28-C25 | 13.46 | 1.53 | 1.35 |
| 32 | F | 207 | WVN | C28-C25 | 13.44 | 1.53 | 1.35 |
| 38 | e | 313 | II0 | C39-C35 | 13.44 | 1.53 | 1.35 |
| 38 | i | 319 | II0 | C39-C35 | 13.43 | 1.53 | 1.35 |
| 32 | F | 205 | WVN | C26-C22 | 13.42 | 1.53 | 1.35 |
| 38 | J | 103 | II0 | C39-C35 | 13.42 | 1.53 | 1.35 |
| 38 | d | 317 | II0 | C39-C35 | 13.41 | 1.53 | 1.35 |
| 38 | k | 620 | II0 | C39-C35 | 13.39 | 1.53 | 1.35 |
| 32 | J | 101 | WVN | C28-C25 | 13.39 | 1.53 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | s | 405 | WVN | C28-C25 | 13.39 | 1.53 | 1.35 |
| 38 | l | 315 | II0 | C39-C35 | 13.39 | 1.53 | 1.35 |
| 38 | a | 317 | II0 | C39-C35 | 13.38 | 1.53 | 1.35 |
| 38 | f | 616 | II0 | C39-C35 | 13.37 | 1.53 | 1.35 |
| 32 | B | 849 | WVN | C28-C25 | 13.35 | 1.53 | 1.35 |
| 38 | g | 317 | II0 | C39-C35 | 13.35 | 1.53 | 1.35 |
| 32 | e | 315 | WVN | C28-C25 | 13.34 | 1.53 | 1.35 |
| 38 | g | 319 | II0 | C39-C35 | 13.33 | 1.53 | 1.35 |
| 38 | l | 313 | II0 | C39-C35 | 13.32 | 1.53 | 1.35 |
| 38 | e | 314 | II0 | C39-C35 | 13.32 | 1.53 | 1.35 |
| 38 | k | 619 | II0 | C39-C35 | 13.32 | 1.53 | 1.35 |
| 32 | A | 844 | WVN | C15-C13 | 13.31 | 1.57 | 1.34 |
| 32 | L | 206 | WVN | C36-C32 | 13.31 | 1.53 | 1.35 |
| 32 | B | 846 | WVN | C36-C32 | 13.30 | 1.53 | 1.35 |
| 38 | n | 618 | II0 | C39-C35 | 13.30 | 1.53 | 1.35 |
| 38 | m | 618 | II0 | C39-C35 | 13.29 | 1.53 | 1.35 |
| 38 | d | 315 | II0 | C39-C35 | 13.29 | 1.53 | 1.35 |
| 32 | M | 101 | WVN | C28-C25 | 13.28 | 1.53 | 1.35 |
| 38 | i | 313 | II0 | C39-C35 | 13.27 | 1.53 | 1.35 |
| 32 | A | 845 | WVN | C28-C25 | 13.27 | 1.53 | 1.35 |
| 32 | L | 205 | WVN | C28-C25 | 13.25 | 1.53 | 1.35 |
| 38 | b | 301 | II0 | C39-C35 | 13.25 | 1.53 | 1.35 |
| 38 | k | 615 | II0 | C39-C35 | 13.24 | 1.53 | 1.35 |
| 38 | n | 616 | II0 | C39-C35 | 13.22 | 1.53 | 1.35 |
| 32 | K | 103 | WVN | C28-C25 | 13.22 | 1.53 | 1.35 |
| 38 | j | 301 | II0 | C39-C35 | 13.20 | 1.53 | 1.35 |
| 38 | h | 311 | II0 | C39-C35 | 13.20 | 1.53 | 1.35 |
| 38 | j | 315 | II0 | C39-C35 | 13.18 | 1.53 | 1.35 |
| 38 | h | 310 | II0 | C39-C35 | 13.15 | 1.53 | 1.35 |
| 32 | R | 201 | WVN | C28-C25 | 13.12 | 1.53 | 1.35 |
| 32 | B | 848 | WVN | C28-C25 | 13.10 | 1.53 | 1.35 |
| 32 | F | 204 | WVN | C28-C25 | 13.09 | 1.53 | 1.35 |
| 38 | d | 301 | II0 | C39-C35 | 13.07 | 1.53 | 1.35 |
| 32 | L | 206 | WVN | C28-C25 | 13.07 | 1.53 | 1.35 |
| 38 | a | 315 | II0 | C39-C35 | 13.06 | 1.53 | 1.35 |
| 38 | i | 316 | II0 | C39-C35 | 13.03 | 1.53 | 1.35 |
| 32 | B | 849 | WVN | C15-C13 | 12.88 | 1.56 | 1.34 |
| 32 | F | 207 | WVN | C15-C13 | 12.83 | 1.56 | 1.34 |
| 38 | h | 309 | II0 | C39-C35 | 12.82 | 1.52 | 1.35 |
| 32 | L | 201 | WVN | C15-C13 | 12.80 | 1.56 | 1.34 |
| 32 | i | 315 | WVN | C15-C13 | 12.61 | 1.56 | 1.34 |
| 32 | h | 308 | WVN | C15-C13 | 12.59 | 1.56 | 1.34 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | B | 847 | WVN | C15-C13 | 12.49 | 1.56 | 1.34 |
| 32 | A | 847 | WVN | C15-C13 | 12.48 | 1.56 | 1.34 |
| 32 | A | 854 | WVN | C15-C13 | 12.46 | 1.56 | 1.34 |
| 32 | l | 302 | WVN | C15-C13 | 12.36 | 1.55 | 1.34 |
| 32 | M | 101 | WVN | C15-C13 | 12.36 | 1.55 | 1.34 |
| 32 | R | 202 | WVN | C15-C13 | 12.24 | 1.55 | 1.34 |
| 32 | L | 205 | WVN | C15-C13 | 12.23 | 1.55 | 1.34 |
| 32 | l | 316 | WVN | C15-C13 | 12.20 | 1.55 | 1.34 |
| 32 | B | 846 | WVN | C15-C13 | 12.17 | 1.55 | 1.34 |
| 32 | s | 407 | WVN | C15-C13 | 12.16 | 1.55 | 1.34 |
| 32 | A | 845 | WVN | C15-C13 | 12.10 | 1.55 | 1.34 |
| 32 | R | 201 | WVN | C15-C13 | 12.08 | 1.55 | 1.34 |
| 32 | J | 101 | WVN | C15-C13 | 12.04 | 1.55 | 1.34 |
| 32 | L | 206 | WVN | C15-C13 | 12.01 | 1.55 | 1.34 |
| 32 | B | 848 | WVN | C15-C13 | 11.95 | 1.55 | 1.34 |
| 32 | s | 405 | WVN | C15-C13 | 11.95 | 1.55 | 1.34 |
| 32 | A | 846 | WVN | C15-C13 | 11.91 | 1.55 | 1.34 |
| 32 | e | 315 | WVN | C15-C13 | 11.90 | 1.55 | 1.34 |
| 32 | K | 103 | WVN | C15-C13 | 11.70 | 1.54 | 1.34 |
| 32 | F | 204 | WVN | C15-C13 | 11.57 | 1.54 | 1.34 |
| 32 | R | 201 | WVN | C09-C05 | 11.55 | 1.55 | 1.32 |
| 32 | L | 206 | WVN | C09-C05 | 11.54 | 1.55 | 1.32 |
| 32 | J | 101 | WVN | C09-C05 | 11.41 | 1.55 | 1.32 |
| 32 | I | 101 | WVN | C09-C05 | 11.40 | 1.55 | 1.32 |
| 32 | L | 205 | WVN | C09-C05 | 11.38 | 1.55 | 1.32 |
| 32 | F | 207 | WVN | C09-C05 | 11.34 | 1.55 | 1.32 |
| 32 | F | 204 | WVN | C09-C05 | 11.32 | 1.55 | 1.32 |
| 32 | l | 316 | WVN | C09-C05 | 11.32 | 1.55 | 1.32 |
| 32 | A | 844 | WVN | C09-C05 | 11.30 | 1.55 | 1.32 |
| 32 | K | 103 | WVN | C09-C05 | 11.28 | 1.54 | 1.32 |
| 32 | A | 847 | WVN | C09-C05 | 11.27 | 1.54 | 1.32 |
| 32 | B | 848 | WVN | C09-C05 | 11.27 | 1.54 | 1.32 |
| 32 | l | 302 | WVN | C09-C05 | 11.26 | 1.54 | 1.32 |
| 32 | B | 849 | WVN | C09-C05 | 11.26 | 1.54 | 1.32 |
| 32 | h | 308 | WVN | C09-C05 | 11.24 | 1.54 | 1.32 |
| 32 | I | 101 | WVN | C15-C13 | 11.22 | 1.53 | 1.34 |
| 32 | s | 405 | WVN | C09-C05 | 11.21 | 1.54 | 1.32 |
| 32 | i | 315 | WVN | C09-C05 | 11.20 | 1.54 | 1.32 |
| 32 | M | 101 | WVN | C09-C05 | 11.09 | 1.54 | 1.32 |
| 32 | B | 847 | WVN | C09-C05 | 11.07 | 1.54 | 1.32 |
| 32 | B | 846 | WVN | C09-C05 | 11.05 | 1.54 | 1.32 |
| 32 | e | 315 | WVN | C09-C05 | 11.01 | 1.54 | 1.32 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | s | 407 | WVN | C09-C05 | 10.99 | 1.54 | 1.32 |
| 32 | A | 845 | WVN | C09-C05 | 10.99 | 1.54 | 1.32 |
| 32 | A | 854 | WVN | C09-C05 | 10.96 | 1.54 | 1.32 |
| 32 | R | 202 | WVN | C09-C05 | 10.91 | 1.54 | 1.32 |
| 32 | F | 205 | WVN | C15-C13 | 10.90 | 1.53 | 1.34 |
| 32 | L | 201 | WVN | C09-C05 | 10.87 | 1.54 | 1.32 |
| 32 | F | 205 | WVN | C09-C05 | 10.59 | 1.53 | 1.32 |
| 32 | A | 846 | WVN | C09-C05 | 10.50 | 1.53 | 1.32 |
| 40 | i | 318 | KC2 | C1D-ND | 10.22 | 1.44 | 1.35 |
| 40 | e | 309 | KC2 | C1D-ND | 9.82 | 1.44 | 1.35 |
| 40 | k | 611 | KC2 | C1D-ND | 9.62 | 1.43 | 1.35 |
| 40 | d | 311 | KC2 | C1D-ND | 9.57 | 1.43 | 1.35 |
| 40 | m | 611 | KC2 | C1D-ND | 9.45 | 1.43 | 1.35 |
| 40 | g | 315 | KC2 | C1D-ND | 9.37 | 1.43 | 1.35 |
| 40 | i | 310 | KC2 | C1D-ND | 9.33 | 1.43 | 1.35 |
| 40 | j | 312 | KC2 | C1D-ND | 9.32 | 1.43 | 1.35 |
| 40 | l | 311 | KC2 | C1D-ND | 9.29 | 1.43 | 1.35 |
| 40 | n | 611 | KC2 | C1D-ND | 9.11 | 1.43 | 1.35 |
| 40 | f | 611 | KC2 | C1D-ND | 9.04 | 1.43 | 1.35 |
| 40 | g | 313 | KC2 | C1D-ND | 9.04 | 1.43 | 1.35 |
| 38 | l | 314 | II0 | C29-C25 | 8.79 | 1.55 | 1.37 |
| 38 | k | 619 | II0 | C29-C25 | 8.74 | 1.55 | 1.37 |
| 40 | s | 404 | KC2 | C1D-ND | 8.74 | 1.43 | 1.35 |
| 38 | i | 314 | II0 | C29-C25 | 8.74 | 1.55 | 1.37 |
| 38 | l | 314 | II0 | C30-C26 | 8.70 | 1.55 | 1.37 |
| 38 | n | 618 | II0 | C29-C25 | 8.69 | 1.55 | 1.37 |
| 40 | c | 310 | KC2 | C1D-ND | 8.68 | 1.43 | 1.35 |
| 38 | a | 314 | II0 | C29-C25 | 8.64 | 1.55 | 1.37 |
| 38 | i | 319 | II0 | C29-C25 | 8.64 | 1.55 | 1.37 |
| 38 | l | 313 | II0 | C29-C25 | 8.63 | 1.55 | 1.37 |
| 38 | d | 317 | II0 | C29-C25 | 8.63 | 1.55 | 1.37 |
| 38 | m | 616 | II0 | C29-C25 | 8.62 | 1.55 | 1.37 |
| 38 | g | 317 | II0 | C29-C25 | 8.62 | 1.55 | 1.37 |
| 38 | f | 615 | II0 | C29-C25 | 8.62 | 1.55 | 1.37 |
| 38 | l | 313 | II0 | C30-C26 | 8.61 | 1.55 | 1.37 |
| 40 | s | 404 | KC2 | C2A-C3A | 8.61 | 1.54 | 1.37 |
| 38 | e | 314 | II0 | C29-C25 | 8.59 | 1.55 | 1.37 |
| 38 | n | 615 | II0 | C29-C25 | 8.59 | 1.55 | 1.37 |
| 38 | i | 316 | II0 | C29-C25 | 8.58 | 1.55 | 1.37 |
| 38 | j | 315 | II0 | C29-C25 | 8.57 | 1.55 | 1.37 |
| 38 | f | 616 | II0 | C21-C09 | 8.57 | 1.60 | 1.42 |
| 38 | m | 614 | II0 | C29-C25 | 8.55 | 1.55 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | c | 313 | II0 | C29-C25 | 8.55 | 1.55 | 1.37 |
| 38 | l | 315 | II0 | C29-C25 | 8.55 | 1.54 | 1.37 |
| 38 | f | 618 | II0 | C29-C25 | 8.53 | 1.54 | 1.37 |
| 38 | g | 318 | II0 | C29-C25 | 8.53 | 1.54 | 1.37 |
| 38 | h | 310 | II0 | C29-C25 | 8.52 | 1.54 | 1.37 |
| 40 | g | 314 | KC2 | C2A-C3A | 8.51 | 1.54 | 1.37 |
| 38 | j | 316 | II0 | C29-C25 | 8.51 | 1.54 | 1.37 |
| 38 | a | 313 | II0 | C29-C25 | 8.50 | 1.54 | 1.37 |
| 38 | k | 616 | II0 | C29-C25 | 8.50 | 1.54 | 1.37 |
| 40 | s | 401 | KC2 | C1D-ND | 8.50 | 1.42 | 1.35 |
| 38 | m | 618 | II0 | C29-C25 | 8.49 | 1.54 | 1.37 |
| 38 | f | 614 | II0 | C29-C25 | 8.47 | 1.54 | 1.37 |
| 40 | g | 314 | KC2 | C1D-ND | 8.46 | 1.42 | 1.35 |
| 38 | d | 317 | II0 | C30-C26 | 8.46 | 1.54 | 1.37 |
| 38 | m | 615 | II0 | C29-C25 | 8.45 | 1.54 | 1.37 |
| 38 | m | 618 | II0 | C30-C26 | 8.45 | 1.54 | 1.37 |
| 38 | f | 618 | II0 | C30-C26 | 8.45 | 1.54 | 1.37 |
| 38 | d | 315 | II0 | C30-C26 | 8.43 | 1.54 | 1.37 |
| 38 | m | 615 | II0 | C30-C26 | 8.43 | 1.54 | 1.37 |
| 38 | a | 317 | II0 | C29-C25 | 8.41 | 1.54 | 1.37 |
| 38 | k | 615 | II0 | C30-C26 | 8.41 | 1.54 | 1.37 |
| 38 | b | 301 | II0 | C30-C26 | 8.41 | 1.54 | 1.37 |
| 38 | f | 615 | II0 | C30-C26 | 8.41 | 1.54 | 1.37 |
| 38 | k | 619 | II0 | C30-C26 | 8.41 | 1.54 | 1.37 |
| 38 | e | 312 | II0 | C30-C26 | 8.40 | 1.54 | 1.37 |
| 38 | j | 316 | II0 | C30-C26 | 8.40 | 1.54 | 1.37 |
| 38 | m | 616 | II0 | C30-C26 | 8.40 | 1.54 | 1.37 |
| 38 | f | 614 | II0 | C30-C26 | 8.39 | 1.54 | 1.37 |
| 38 | n | 616 | II0 | C30-C26 | 8.38 | 1.54 | 1.37 |
| 38 | g | 319 | II0 | C30-C26 | 8.38 | 1.54 | 1.37 |
| 38 | c | 313 | II0 | C30-C26 | 8.36 | 1.54 | 1.37 |
| 38 | j | 301 | II0 | C29-C25 | 8.36 | 1.54 | 1.37 |
| 38 | d | 315 | II0 | C29-C25 | 8.36 | 1.54 | 1.37 |
| 38 | g | 319 | II0 | C29-C25 | 8.35 | 1.54 | 1.37 |
| 38 | a | 315 | II0 | C29-C25 | 8.35 | 1.54 | 1.37 |
| 30 | B | 843 | PQN | C12-C13 | 8.35 | 1.53 | 1.33 |
| 30 | A | 841 | PQN | C12-C13 | 8.34 | 1.53 | 1.33 |
| 38 | J | 103 | II0 | C29-C25 | 8.34 | 1.54 | 1.37 |
| 38 | b | 315 | II0 | C29-C25 | 8.34 | 1.54 | 1.37 |
| 38 | h | 311 | II0 | C30-C26 | 8.33 | 1.54 | 1.37 |
| 38 | a | 315 | II0 | C30-C26 | 8.33 | 1.54 | 1.37 |
| 38 | i | 313 | II0 | C30-C26 | 8.33 | 1.54 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | i | 319 | II0 | C30-C26 | 8.33 | 1.54 | 1.37 |
| 38 | m | 614 | II0 | C30-C26 | 8.33 | 1.54 | 1.37 |
| 38 | g | 317 | II0 | C30-C26 | 8.32 | 1.54 | 1.37 |
| 38 | b | 314 | II0 | C30-C26 | 8.32 | 1.54 | 1.37 |
| 38 | n | 615 | II0 | C30-C26 | 8.31 | 1.54 | 1.37 |
| 38 | d | 316 | II0 | C30-C26 | 8.30 | 1.54 | 1.37 |
| 38 | i | 313 | II0 | C29-C25 | 8.30 | 1.54 | 1.37 |
| 38 | a | 317 | II0 | C30-C26 | 8.30 | 1.54 | 1.37 |
| 38 | f | 616 | II0 | C30-C26 | 8.30 | 1.54 | 1.37 |
| 38 | g | 318 | II0 | C30-C26 | 8.30 | 1.54 | 1.37 |
| 38 | l | 315 | II0 | C21-C09 | 8.28 | 1.59 | 1.42 |
| 38 | J | 103 | II0 | C30-C26 | 8.27 | 1.54 | 1.37 |
| 38 | k | 620 | II0 | C29-C25 | 8.27 | 1.54 | 1.37 |
| 38 | b | 314 | II0 | C29-C25 | 8.27 | 1.54 | 1.37 |
| 38 | k | 620 | II0 | C30-C26 | 8.27 | 1.54 | 1.37 |
| 38 | h | 311 | II0 | C29-C25 | 8.26 | 1.54 | 1.37 |
| 38 | i | 316 | II0 | C30-C26 | 8.26 | 1.54 | 1.37 |
| 38 | n | 618 | II0 | C30-C26 | 8.25 | 1.54 | 1.37 |
| 38 | d | 316 | II0 | C29-C25 | 8.25 | 1.54 | 1.37 |
| 38 | b | 315 | II0 | C30-C26 | 8.25 | 1.54 | 1.37 |
| 38 | l | 315 | II0 | C30-C26 | 8.24 | 1.54 | 1.37 |
| 38 | a | 314 | II0 | C30-C26 | 8.23 | 1.54 | 1.37 |
| 38 | i | 314 | II0 | C30-C26 | 8.22 | 1.54 | 1.37 |
| 38 | n | 616 | II0 | C29-C25 | 8.21 | 1.54 | 1.37 |
| 38 | e | 314 | II0 | C30-C26 | 8.21 | 1.54 | 1.37 |
| 38 | h | 310 | II0 | C30-C26 | 8.21 | 1.54 | 1.37 |
| 38 | j | 301 | II0 | C30-C26 | 8.20 | 1.54 | 1.37 |
| 38 | d | 301 | II0 | C30-C26 | 8.19 | 1.54 | 1.37 |
| 38 | k | 616 | II0 | C30-C26 | 8.17 | 1.54 | 1.37 |
| 38 | b | 301 | II0 | C29-C25 | 8.17 | 1.54 | 1.37 |
| 38 | a | 313 | II0 | C30-C26 | 8.16 | 1.54 | 1.37 |
| 38 | e | 312 | II0 | C29-C25 | 8.15 | 1.54 | 1.37 |
| 38 | j | 315 | II0 | C30-C26 | 8.14 | 1.54 | 1.37 |
| 38 | e | 313 | II0 | C30-C26 | 8.13 | 1.54 | 1.37 |
| 38 | k | 615 | II0 | C29-C25 | 8.11 | 1.54 | 1.37 |
| 40 | l | 311 | KC2 | C2A-C3A | 8.10 | 1.53 | 1.37 |
| 38 | f | 616 | II0 | C29-C25 | 8.08 | 1.54 | 1.37 |
| 29 | A | 803 | CLA | C4B-NB | 8.08 | 1.42 | 1.35 |
| 38 | d | 301 | II0 | C29-C25 | 8.08 | 1.54 | 1.37 |
| 38 | e | 313 | II0 | C29-C25 | 8.08 | 1.53 | 1.37 |
| 38 | k | 615 | II0 | C22-C10 | 8.07 | 1.59 | 1.42 |
| 40 | k | 611 | KC2 | C2A-C3A | 8.07 | 1.53 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | h | 309 | II0 | C29-C25 | 8.05 | 1.53 | 1.37 |
| 29 | A | 837 | CLA | C4B-NB | 7.97 | 1.42 | 1.35 |
| 30 | B | 843 | PQN | O1-C1 | 7.94 | 1.40 | 1.23 |
| 29 | B | 841 | CLA | C4B-NB | 7.94 | 1.42 | 1.35 |
| 38 | d | 315 | II0 | C22-C10 | 7.89 | 1.59 | 1.42 |
| 40 | i | 318 | KC2 | C2A-C3A | 7.88 | 1.53 | 1.37 |
| 30 | B | 843 | PQN | O4-C4 | 7.84 | 1.39 | 1.23 |
| 40 | n | 611 | KC2 | C2A-C3A | 7.83 | 1.53 | 1.37 |
| 30 | A | 841 | PQN | O4-C4 | 7.83 | 1.39 | 1.23 |
| 29 | b | 310 | CLA | C4B-NB | 7.83 | 1.42 | 1.35 |
| 29 | i | 307 | CLA | C4B-NB | 7.82 | 1.42 | 1.35 |
| 30 | A | 841 | PQN | O1-C1 | 7.82 | 1.39 | 1.23 |
| 29 | f | 608 | CLA | C4B-NB | 7.81 | 1.42 | 1.35 |
| 29 | B | 835 | CLA | C4B-NB | 7.81 | 1.42 | 1.35 |
| 29 | g | 316 | CLA | C4B-NB | 7.78 | 1.42 | 1.35 |
| 29 | k | 609 | CLA | C4B-NB | 7.72 | 1.42 | 1.35 |
| 29 | i | 305 | CLA | C4B-NB | 7.71 | 1.42 | 1.35 |
| 29 | k | 614 | CLA | C4B-NB | 7.69 | 1.42 | 1.35 |
| 29 | n | 610 | CLA | C4B-NB | 7.64 | 1.42 | 1.35 |
| 29 | b | 312 | CLA | C4B-NB | 7.62 | 1.42 | 1.35 |
| 29 | R | 203 | CLA | C4B-NB | 7.62 | 1.42 | 1.35 |
| 29 | s | 402 | CLA | C4B-NB | 7.61 | 1.42 | 1.35 |
| 29 | b | 305 | CLA | C4B-NB | 7.60 | 1.42 | 1.35 |
| 29 | d | 310 | CLA | C4B-NB | 7.60 | 1.42 | 1.35 |
| 40 | d | 311 | KC2 | C2A-C3A | 7.60 | 1.52 | 1.37 |
| 29 | l | 301 | CLA | C4B-NB | 7.59 | 1.42 | 1.35 |
| 40 | g | 313 | KC2 | C2A-C3A | 7.59 | 1.52 | 1.37 |
| 29 | F | 203 | CLA | C4B-NB | 7.58 | 1.42 | 1.35 |
| 29 | d | 305 | CLA | C4B-NB | 7.57 | 1.42 | 1.35 |
| 29 | a | 307 | CLA | C4B-NB | 7.57 | 1.42 | 1.35 |
| 29 | e | 311 | CLA | C4B-NB | 7.56 | 1.42 | 1.35 |
| 29 | d | 306 | CLA | C4B-NB | 7.55 | 1.41 | 1.35 |
| 29 | n | 603 | CLA | C4B-NB | 7.55 | 1.41 | 1.35 |
| 29 | e | 305 | CLA | C4B-NB | 7.55 | 1.41 | 1.35 |
| 29 | A | 806 | CLA | C4B-NB | 7.54 | 1.41 | 1.35 |
| 29 | a | 311 | CLA | C4B-NB | 7.54 | 1.41 | 1.35 |
| 29 | A | 838 | CLA | C4B-NB | 7.53 | 1.41 | 1.35 |
| 38 | k | 616 | II0 | C21-C09 | 7.52 | 1.58 | 1.42 |
| 29 | f | 605 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 29 | B | 820 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 29 | A | 813 | CLA | C4B-NB | 7.51 | 1.41 | 1.35 |
| 29 | B | 801 | CLA | C4B-NB | 7.50 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | j | 312 | KC2 | C2A-C3A | 7.50 | 1.52 | 1.37 |
| 29 | B | 827 | CLA | C4B-NB | 7.49 | 1.41 | 1.35 |
| 29 | A | 811 | CLA | C4B-NB | 7.49 | 1.41 | 1.35 |
| 29 | c | 305 | CLA | C4B-NB | 7.49 | 1.41 | 1.35 |
| 29 | d | 307 | CLA | C4B-NB | 7.49 | 1.41 | 1.35 |
| 29 | n | 613 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 29 | L | 207 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 29 | A | 829 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 29 | j | 314 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 29 | g | 308 | CLA | C4B-NB | 7.47 | 1.41 | 1.35 |
| 29 | a | 312 | CLA | C4B-NB | 7.47 | 1.41 | 1.35 |
| 29 | d | 304 | CLA | C4B-NB | 7.47 | 1.41 | 1.35 |
| 29 | m | 601 | CLA | C4B-NB | 7.47 | 1.41 | 1.35 |
| 40 | i | 310 | KC2 | C2A-C3A | 7.47 | 1.52 | 1.37 |
| 29 | b | 302 | CLA | C4B-NB | 7.47 | 1.41 | 1.35 |
| 29 | B | 819 | CLA | C4B-NB | 7.46 | 1.41 | 1.35 |
| 29 | l | 310 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | k | 603 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | g | 303 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | B | 810 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | n | 608 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | c | 301 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | d | 318 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | B | 839 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | B | 837 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | i | 306 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 38 | i | 319 | II0 | C22-C10 | 7.43 | 1.58 | 1.42 |
| 40 | m | 611 | KC2 | C2A-C3A | 7.43 | 1.52 | 1.37 |
| 29 | c | 312 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 29 | d | 308 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 29 | B | 834 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | h | 301 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | g | 302 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | e | 301 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | l | 303 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | j | 306 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | B | 832 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | d | 313 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 40 | e | 309 | KC2 | C2A-C3A | 7.41 | 1.52 | 1.37 |
| 29 | f | 606 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | A | 822 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | h | 303 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | Q | 302 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 40 | g | 315 | KC2 | C2A-C3A | 7.40 | 1.52 | 1.37 |
| 29 | F | 202 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | B | 811 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | j | 304 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | j | 313 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | f | 601 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | m | 613 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | k | 606 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | f | 604 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | h | 307 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | i | 302 | CLA | C4B-NB | 7.38 | 1.41 | 1.35 |
| 29 | g | 307 | CLA | C4B-NB | 7.38 | 1.41 | 1.35 |
| 29 | n | 604 | CLA | C4B-NB | 7.38 | 1.41 | 1.35 |
| 29 | k | 605 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | O | 206 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | g | 312 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | g | 323 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | l | 306 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | c | 309 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | g | 305 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | j | 302 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | A | 831 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | i | 311 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | n | 606 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | j | 309 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | B | 818 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | e | 308 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | j | 311 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | c | 303 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | J | 102 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | B | 813 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | n | 601 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | A | 835 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | F | 201 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | B | 838 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | A | 809 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | m | 607 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | A | 830 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | c | 311 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | f | 603 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | A | 836 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | l | 307 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |
| 38 | b | 315 | II0 | C22-C10 | 7.32 | 1.57 | 1.42 |
| 29 | A | 833 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |
| 29 | s | 406 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | A | 810 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | B | 809 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | n | 605 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | A | 832 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | k | 610 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | h | 306 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | g | 304 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | B | 828 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | f | 607 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | A | 851 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | b | 307 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | c | 306 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | L | 202 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | b | 311 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | m | 606 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | m | 610 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | l | 312 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | f | 613 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | B | 815 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | m | 605 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | A | 808 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | B | 817 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | A | 821 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | i | 304 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | s | 403 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | a | 306 | CLA | C4B-NB | 7.25 | 1.41 | 1.35 |
| 29 | j | 305 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | j | 307 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 40 | f | 611 | KC2 | C2A-C3A | 7.24 | 1.51 | 1.37 |
| 29 | m | 612 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | k | 608 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | e | 303 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | A | 827 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | h | 302 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | B | 814 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | A | 828 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | i | 312 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | h | 305 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | j | 310 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | f | 610 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | b | 306 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | A | 818 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | k | 607 | CLA | C4B-NB | 7.21 | 1.41 | 1.35 |
| 38 | i | 314 | II0 | C22-C10 | 7.21 | 1.57 | 1.42 |
| 29 | a | 304 | CLA | C4B-NB | 7.21 | 1.41 | 1.35 |
| 38 | m | 618 | II0 | C22-C10 | 7.20 | 1.57 | 1.42 |
| 29 | e | 304 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | n | 607 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 32 | i | 315 | WVN | C02-C11 | 7.20 | 1.60 | 1.50 |
| 29 | A | 819 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | A | 804 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | A | 820 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | A | 823 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | m | 608 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 38 | i | 314 | II0 | C21-C09 | 7.19 | 1.57 | 1.42 |
| 29 | B | 840 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | h | 312 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | k | 601 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | B | 830 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 38 | d | 317 | II0 | C22-C10 | 7.18 | 1.57 | 1.42 |
| 29 | l | 305 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | A | 825 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | i | 309 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | d | 309 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | A | 816 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | B | 829 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | a | 309 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | e | 307 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | B | 808 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | a | 305 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | k | 604 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | g | 310 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | a | 310 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | B | 842 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | B | 826 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | B | 805 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | B | 836 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | n | 609 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | B | 802 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | B | 821 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | l | 309 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | g | 311 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 29 | c | 304 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 29 | b | 313 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 29 | e | 306 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | L | 204 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | c | 308 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | l | 308 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 38 | e | 313 | II0 | C22-C10 | 7.12 | 1.57 | 1.42 |
| 29 | b | 304 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 29 | A | 824 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | a | 302 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | A | 814 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | B | 831 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | m | 603 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | A | 850 | CLA | C4B-NB | 7.10 | 1.41 | 1.35 |
| 29 | c | 307 | CLA | C4B-NB | 7.10 | 1.41 | 1.35 |
| 29 | B | 806 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 29 | A | 802 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 29 | m | 604 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 38 | g | 318 | II0 | C22-C10 | 7.08 | 1.57 | 1.42 |
| 29 | A | 840 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | B | 825 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | i | 303 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 38 | b | 301 | II0 | C22-C10 | 7.08 | 1.57 | 1.42 |
| 38 | n | 618 | II0 | C22-C10 | 7.07 | 1.57 | 1.42 |
| 29 | B | 823 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 29 | K | 101 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 38 | k | 616 | II0 | C22-C10 | 7.07 | 1.57 | 1.42 |
| 29 | B | 822 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 32 | l | 316 | WVN | C02-C11 | 7.06 | 1.60 | 1.50 |
| 29 | L | 203 | CLA | C4B-NB | 7.06 | 1.41 | 1.35 |
| 29 | A | 839 | CLA | C4B-NB | 7.06 | 1.41 | 1.35 |
| 29 | f | 612 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 29 | O | 202 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 29 | k | 602 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 29 | B | 803 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | e | 310 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 38 | j | 301 | II0 | C22-C10 | 7.03 | 1.57 | 1.42 |
| 29 | B | 833 | CLA | C4B-NB | 7.03 | 1.41 | 1.35 |
| 29 | d | 302 | CLA | C4B-NB | 7.03 | 1.41 | 1.35 |
| 29 | A | 817 | CLA | C4B-NB | 7.02 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | m | 615 | II0 | C22-C10 | 7.02 | 1.57 | 1.42 |
| 38 | g | 317 | II0 | C21-C09 | 7.02 | 1.57 | 1.42 |
| 38 | l | 315 | II0 | C22-C10 | 7.01 | 1.57 | 1.42 |
| 29 | A | 815 | CLA | C4B-NB | 7.00 | 1.41 | 1.35 |
| 29 | c | 302 | CLA | C4B-NB | 7.00 | 1.41 | 1.35 |
| 38 | l | 313 | II0 | C22-C10 | 7.00 | 1.57 | 1.42 |
| 29 | m | 602 | CLA | C4B-NB | 7.00 | 1.41 | 1.35 |
| 29 | a | 308 | CLA | C4B-NB | 7.00 | 1.41 | 1.35 |
| 38 | f | 618 | II0 | C22-C10 | 6.98 | 1.57 | 1.42 |
| 38 | d | 316 | II0 | C22-C10 | 6.98 | 1.57 | 1.42 |
| 29 | A | 805 | CLA | C4B-NB | 6.98 | 1.41 | 1.35 |
| 32 | I | 101 | WVN | C02-C11 | 6.98 | 1.60 | 1.50 |
| 29 | b | 308 | CLA | C4B-NB | 6.97 | 1.41 | 1.35 |
| 29 | A | 812 | CLA | C4B-NB | 6.94 | 1.41 | 1.35 |
| 32 | A | 844 | WVN | C02-C11 | 6.94 | 1.60 | 1.50 |
| 29 | b | 309 | CLA | C4B-NB | 6.93 | 1.41 | 1.35 |
| 29 | d | 303 | CLA | C4B-NB | 6.93 | 1.41 | 1.35 |
| 29 | B | 816 | CLA | C4B-NB | 6.93 | 1.41 | 1.35 |
| 29 | n | 602 | CLA | C4B-NB | 6.92 | 1.41 | 1.35 |
| 29 | e | 302 | CLA | C4B-NB | 6.92 | 1.41 | 1.35 |
| 38 | l | 314 | II0 | C24-C26 | 6.91 | 1.55 | 1.42 |
| 29 | K | 102 | CLA | C4B-NB | 6.91 | 1.41 | 1.35 |
| 29 | h | 304 | CLA | C4B-NB | 6.90 | 1.41 | 1.35 |
| 29 | O | 201 | CLA | C4B-NB | 6.89 | 1.41 | 1.35 |
| 38 | n | 616 | II0 | C22-C10 | 6.89 | 1.56 | 1.42 |
| 40 | c | 310 | KC2 | C2A-C3A | 6.89 | 1.51 | 1.37 |
| 29 | B | 824 | CLA | C4B-NB | 6.88 | 1.41 | 1.35 |
| 29 | m | 609 | CLA | C4B-NB | 6.88 | 1.41 | 1.35 |
| 38 | i | 313 | II0 | C22-C10 | 6.88 | 1.56 | 1.42 |
| 38 | g | 317 | II0 | C22-C10 | 6.87 | 1.56 | 1.42 |
| 29 | j | 308 | CLA | C4B-NB | 6.87 | 1.41 | 1.35 |
| 38 | f | 615 | II0 | C22-C10 | 6.87 | 1.56 | 1.42 |
| 38 | e | 314 | II0 | C22-C10 | 6.86 | 1.56 | 1.42 |
| 38 | a | 317 | II0 | C22-C10 | 6.86 | 1.56 | 1.42 |
| 29 | A | 826 | CLA | C4B-NB | 6.86 | 1.41 | 1.35 |
| 32 | h | 308 | WVN | C02-C11 | 6.86 | 1.60 | 1.50 |
| 38 | e | 314 | II0 | C21-C09 | 6.85 | 1.56 | 1.42 |
| 38 | m | 616 | II0 | C22-C10 | 6.84 | 1.56 | 1.42 |
| 29 | j | 303 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 29 | B | 807 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 38 | m | 618 | II0 | C21-C09 | 6.83 | 1.56 | 1.42 |
| 38 | a | 315 | II0 | C22-C10 | 6.83 | 1.56 | 1.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | s | 401 | KC2 | C2A-C3A | 6.83 | 1.51 | 1.37 |
| 29 | B | 804 | CLA | C4B-NB | 6.83 | 1.41 | 1.35 |
| 29 | f | 609 | CLA | C4B-NB | 6.83 | 1.41 | 1.35 |
| 38 | j | 316 | II0 | C22-C10 | 6.83 | 1.56 | 1.42 |
| 29 | a | 303 | CLA | C4B-NB | 6.82 | 1.41 | 1.35 |
| 38 | d | 301 | II0 | C22-C10 | 6.81 | 1.56 | 1.42 |
| 29 | f | 602 | CLA | C4B-NB | 6.81 | 1.41 | 1.35 |
| 38 | l | 314 | II0 | C22-C10 | 6.80 | 1.56 | 1.42 |
| 32 | A | 847 | WVN | C02-C11 | 6.80 | 1.60 | 1.50 |
| 38 | m | 614 | II0 | C22-C10 | 6.80 | 1.56 | 1.42 |
| 29 | A | 807 | CLA | C4B-NB | 6.79 | 1.41 | 1.35 |
| 38 | l | 313 | II0 | C24-C26 | 6.79 | 1.55 | 1.42 |
| 29 | i | 308 | CLA | C4B-NB | 6.79 | 1.41 | 1.35 |
| 38 | h | 311 | II0 | C24-C26 | 6.79 | 1.55 | 1.42 |
| 29 | B | 812 | CLA | C4B-NB | 6.79 | 1.41 | 1.35 |
| 38 | f | 618 | II0 | C21-C09 | 6.79 | 1.56 | 1.42 |
| 29 | l | 304 | CLA | C4B-NB | 6.77 | 1.41 | 1.35 |
| 38 | m | 618 | II0 | C24-C26 | 6.75 | 1.55 | 1.42 |
| 38 | c | 313 | II0 | C22-C10 | 6.75 | 1.56 | 1.42 |
| 29 | b | 303 | CLA | C4B-NB | 6.74 | 1.41 | 1.35 |
| 32 | e | 315 | WVN | C02-C11 | 6.73 | 1.60 | 1.50 |
| 38 | f | 614 | II0 | C22-C10 | 6.73 | 1.56 | 1.42 |
| 38 | e | 313 | II0 | C24-C26 | 6.71 | 1.55 | 1.42 |
| 38 | b | 315 | II0 | C24-C26 | 6.69 | 1.55 | 1.42 |
| 29 | g | 306 | CLA | C4B-NB | 6.68 | 1.41 | 1.35 |
| 38 | a | 313 | II0 | C21-C09 | 6.68 | 1.56 | 1.42 |
| 38 | n | 618 | II0 | C21-C09 | 6.67 | 1.56 | 1.42 |
| 38 | k | 619 | II0 | C22-C10 | 6.67 | 1.56 | 1.42 |
| 38 | h | 311 | II0 | C22-C10 | 6.67 | 1.56 | 1.42 |
| 38 | a | 314 | II0 | C24-C26 | 6.67 | 1.55 | 1.42 |
| 32 | A | 845 | WVN | C02-C11 | 6.67 | 1.60 | 1.50 |
| 38 | n | 615 | II0 | C21-C09 | 6.66 | 1.56 | 1.42 |
| 38 | j | 301 | II0 | C21-C09 | 6.65 | 1.56 | 1.42 |
| 32 | s | 407 | WVN | C02-C11 | 6.65 | 1.60 | 1.50 |
| 38 | i | 319 | II0 | C21-C09 | 6.65 | 1.56 | 1.42 |
| 38 | d | 317 | II0 | C24-C26 | 6.65 | 1.55 | 1.42 |
| 29 | g | 309 | CLA | C4B-NB | 6.65 | 1.41 | 1.35 |
| 38 | i | 319 | II0 | C24-C26 | 6.64 | 1.55 | 1.42 |
| 32 | M | 101 | WVN | C02-C11 | 6.64 | 1.60 | 1.50 |
| 38 | f | 616 | II0 | C22-C10 | 6.62 | 1.56 | 1.42 |
| 38 | m | 614 | II0 | C21-C09 | 6.61 | 1.56 | 1.42 |
| 38 | i | 316 | II0 | C22-C10 | 6.61 | 1.56 | 1.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | k | 620 | II0 | C22-C10 | 6.60 | 1.56 | 1.42 |
| 38 | n | 615 | II0 | C22-C10 | 6.60 | 1.56 | 1.42 |
| 40 | i | 318 | KC2 | CBA-CAA | 6.60 | 1.53 | 1.33 |
| 38 | h | 310 | II0 | C22-C10 | 6.60 | 1.56 | 1.42 |
| 38 | n | 618 | II0 | C24-C26 | 6.60 | 1.55 | 1.42 |
| 38 | i | 314 | II0 | C24-C26 | 6.59 | 1.55 | 1.42 |
| 38 | j | 315 | II0 | C22-C10 | 6.59 | 1.56 | 1.42 |
| 40 | i | 310 | KC2 | CBA-CAA | 6.59 | 1.53 | 1.33 |
| 40 | g | 314 | KC2 | CBA-CAA | 6.58 | 1.53 | 1.33 |
| 38 | h | 309 | II0 | C21-C09 | 6.58 | 1.56 | 1.42 |
| 38 | a | 314 | II0 | C22-C10 | 6.58 | 1.56 | 1.42 |
| 32 | R | 202 | WVN | C02-C11 | 6.57 | 1.59 | 1.50 |
| 29 | A | 834 | CLA | C4B-NB | 6.57 | 1.41 | 1.35 |
| 38 | m | 616 | II0 | C21-C09 | 6.57 | 1.56 | 1.42 |
| 38 | h | 311 | II0 | C21-C09 | 6.57 | 1.56 | 1.42 |
| 38 | a | 314 | II0 | C21-C09 | 6.57 | 1.56 | 1.42 |
| 32 | K | 103 | WVN | C02-C11 | 6.56 | 1.59 | 1.50 |
| 38 | m | 614 | II0 | C24-C26 | 6.56 | 1.55 | 1.42 |
| 38 | a | 317 | II0 | C21-C09 | 6.56 | 1.56 | 1.42 |
| 38 | k | 616 | II0 | C24-C26 | 6.55 | 1.55 | 1.42 |
| 38 | f | 614 | II0 | C24-C26 | 6.55 | 1.55 | 1.42 |
| 38 | e | 312 | II0 | C22-C10 | 6.55 | 1.56 | 1.42 |
| 38 | b | 301 | II0 | C24-C26 | 6.55 | 1.55 | 1.42 |
| 38 | d | 316 | II0 | C24-C26 | 6.54 | 1.55 | 1.42 |
| 38 | i | 316 | II0 | C21-C09 | 6.54 | 1.56 | 1.42 |
| 38 | d | 316 | II0 | C21-C09 | 6.54 | 1.56 | 1.42 |
| 38 | k | 619 | II0 | C21-C09 | 6.53 | 1.56 | 1.42 |
| 40 | k | 611 | KC2 | CBA-CAA | 6.52 | 1.52 | 1.33 |
| 38 | m | 618 | II0 | C23-C25 | 6.52 | 1.55 | 1.42 |
| 38 | e | 312 | II0 | C24-C26 | 6.52 | 1.55 | 1.42 |
| 38 | f | 616 | II0 | C24-C26 | 6.52 | 1.55 | 1.42 |
| 38 | e | 312 | II0 | C21-C09 | 6.52 | 1.56 | 1.42 |
| 38 | b | 301 | II0 | C21-C09 | 6.51 | 1.56 | 1.42 |
| 40 | j | 312 | KC2 | CBA-CAA | 6.50 | 1.52 | 1.33 |
| 38 | g | 319 | II0 | C22-C10 | 6.49 | 1.56 | 1.42 |
| 38 | m | 616 | II0 | C24-C26 | 6.49 | 1.55 | 1.42 |
| 32 | J | 101 | WVN | C02-C11 | 6.49 | 1.59 | 1.50 |
| 38 | b | 314 | II0 | C22-C10 | 6.48 | 1.56 | 1.42 |
| 40 | g | 315 | KC2 | CBA-CAA | 6.48 | 1.52 | 1.33 |
| 38 | k | 619 | II0 | C24-C26 | 6.47 | 1.55 | 1.42 |
| 38 | d | 315 | II0 | C24-C26 | 6.47 | 1.55 | 1.42 |
| 40 | l | 311 | KC2 | CBA-CAA | 6.47 | 1.52 | 1.33 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | g | 317 | II0 | C24-C26 | 6.47 | 1.55 | 1.42 |
| 38 | l | 315 | II0 | C24-C26 | 6.46 | 1.55 | 1.42 |
| 32 | F | 207 | WVN | C02-C11 | 6.46 | 1.59 | 1.50 |
| 40 | n | 611 | KC2 | CBA-CAA | 6.46 | 1.52 | 1.33 |
| 38 | g | 318 | II0 | C24-C26 | 6.46 | 1.55 | 1.42 |
| 38 | e | 314 | II0 | C24-C26 | 6.45 | 1.55 | 1.42 |
| 38 | m | 615 | II0 | C21-C09 | 6.45 | 1.56 | 1.42 |
| 32 | L | 205 | WVN | C02-C11 | 6.45 | 1.59 | 1.50 |
| 38 | a | 315 | II0 | C24-C26 | 6.44 | 1.54 | 1.42 |
| 32 | L | 201 | WVN | C02-C11 | 6.44 | 1.59 | 1.50 |
| 38 | m | 615 | II0 | C24-C26 | 6.44 | 1.54 | 1.42 |
| 38 | j | 301 | II0 | C24-C26 | 6.43 | 1.54 | 1.42 |
| 38 | n | 615 | II0 | C24-C26 | 6.42 | 1.54 | 1.42 |
| 38 | f | 615 | II0 | C24-C26 | 6.42 | 1.54 | 1.42 |
| 38 | l | 313 | II0 | C21-C09 | 6.42 | 1.55 | 1.42 |
| 38 | j | 315 | II0 | C21-C09 | 6.41 | 1.55 | 1.42 |
| 38 | i | 313 | II0 | C21-C09 | 6.41 | 1.55 | 1.42 |
| 38 | i | 316 | II0 | C24-C26 | 6.41 | 1.54 | 1.42 |
| 38 | g | 319 | II0 | C24-C26 | 6.41 | 1.54 | 1.42 |
| 32 | B | 848 | WVN | C02-C11 | 6.41 | 1.59 | 1.50 |
| 40 | g | 313 | KC2 | CBA-CAA | 6.41 | 1.52 | 1.33 |
| 38 | c | 313 | II0 | C21-C09 | 6.41 | 1.55 | 1.42 |
| 38 | d | 315 | II0 | C21-C09 | 6.40 | 1.55 | 1.42 |
| 38 | j | 316 | II0 | C24-C26 | 6.39 | 1.54 | 1.42 |
| 38 | j | 315 | II0 | C24-C26 | 6.39 | 1.54 | 1.42 |
| 40 | e | 309 | KC2 | CBA-CAA | 6.39 | 1.52 | 1.33 |
| 38 | f | 615 | II0 | C21-C09 | 6.39 | 1.55 | 1.42 |
| 38 | d | 317 | II0 | C23-C25 | 6.38 | 1.54 | 1.42 |
| 38 | k | 620 | II0 | C24-C26 | 6.38 | 1.54 | 1.42 |
| 38 | d | 317 | II0 | C21-C09 | 6.38 | 1.55 | 1.42 |
| 38 | f | 618 | II0 | C24-C26 | 6.37 | 1.54 | 1.42 |
| 38 | J | 103 | II0 | C21-C09 | 6.37 | 1.55 | 1.42 |
| 38 | b | 314 | II0 | C24-C26 | 6.36 | 1.54 | 1.42 |
| 38 | n | 616 | II0 | C21-C09 | 6.36 | 1.55 | 1.42 |
| 38 | d | 301 | II0 | C24-C26 | 6.35 | 1.54 | 1.42 |
| 40 | s | 404 | KC2 | CBA-CAA | 6.35 | 1.52 | 1.33 |
| 32 | l | 302 | WVN | C02-C11 | 6.35 | 1.59 | 1.50 |
| 40 | m | 611 | KC2 | CBA-CAA | 6.35 | 1.52 | 1.33 |
| 38 | J | 103 | II0 | C22-C10 | 6.34 | 1.55 | 1.42 |
| 38 | c | 313 | II0 | C24-C26 | 6.34 | 1.54 | 1.42 |
| 38 | a | 313 | II0 | C22-C10 | 6.34 | 1.55 | 1.42 |
| 38 | n | 615 | II0 | C23-C25 | 6.34 | 1.54 | 1.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | a | 317 | II0 | C24-C26 | 6.34 | 1.54 | 1.42 |
| 38 | b | 314 | II0 | C21-C09 | 6.34 | 1.55 | 1.42 |
| 38 | i | 319 | II0 | C23-C25 | 6.33 | 1.54 | 1.42 |
| 32 | J | 101 | WVN | C19-C22 | 6.33 | 1.59 | 1.45 |
| 38 | n | 616 | II0 | C24-C26 | 6.32 | 1.54 | 1.42 |
| 40 | c | 310 | KC2 | CBA-CAA | 6.32 | 1.52 | 1.33 |
| 38 | h | 310 | II0 | C24-C26 | 6.32 | 1.54 | 1.42 |
| 40 | s | 401 | KC2 | CBA-CAA | 6.31 | 1.52 | 1.33 |
| 40 | f | 611 | KC2 | CBA-CAA | 6.31 | 1.52 | 1.33 |
| 40 | d | 311 | KC2 | CBA-CAA | 6.31 | 1.52 | 1.33 |
| 38 | g | 319 | II0 | C21-C09 | 6.30 | 1.55 | 1.42 |
| 38 | g | 317 | II0 | C23-C25 | 6.29 | 1.54 | 1.42 |
| 32 | B | 847 | WVN | C02-C11 | 6.29 | 1.59 | 1.50 |
| 38 | k | 615 | II0 | C24-C26 | 6.28 | 1.54 | 1.42 |
| 32 | A | 854 | WVN | C02-C11 | 6.28 | 1.59 | 1.50 |
| 38 | d | 301 | II0 | C21-C09 | 6.28 | 1.55 | 1.42 |
| 38 | k | 620 | II0 | C21-C09 | 6.27 | 1.55 | 1.42 |
| 38 | i | 313 | II0 | C24-C26 | 6.27 | 1.54 | 1.42 |
| 32 | L | 206 | WVN | C02-C11 | 6.27 | 1.59 | 1.50 |
| 32 | B | 849 | WVN | C02-C11 | 6.27 | 1.59 | 1.50 |
| 38 | j | 316 | II0 | C21-C09 | 6.27 | 1.55 | 1.42 |
| 38 | f | 618 | II0 | C23-C25 | 6.26 | 1.54 | 1.42 |
| 38 | k | 615 | II0 | C21-C09 | 6.26 | 1.55 | 1.42 |
| 32 | F | 204 | WVN | C02-C11 | 6.25 | 1.59 | 1.50 |
| 38 | a | 313 | II0 | C24-C26 | 6.25 | 1.54 | 1.42 |
| 38 | l | 314 | II0 | C21-C09 | 6.25 | 1.55 | 1.42 |
| 32 | s | 405 | WVN | C02-C11 | 6.24 | 1.59 | 1.50 |
| 38 | l | 315 | II0 | C23-C25 | 6.24 | 1.54 | 1.42 |
| 38 | h | 310 | II0 | C21-C09 | 6.23 | 1.55 | 1.42 |
| 38 | f | 614 | II0 | C21-C09 | 6.23 | 1.55 | 1.42 |
| 38 | e | 313 | II0 | C21-C09 | 6.23 | 1.55 | 1.42 |
| 38 | J | 103 | II0 | C24-C26 | 6.22 | 1.54 | 1.42 |
| 32 | A | 846 | WVN | C02-C11 | 6.20 | 1.59 | 1.50 |
| 38 | g | 318 | II0 | C21-C09 | 6.20 | 1.55 | 1.42 |
| 38 | j | 301 | II0 | C23-C25 | 6.20 | 1.54 | 1.42 |
| 38 | l | 313 | II0 | C23-C25 | 6.20 | 1.54 | 1.42 |
| 38 | J | 103 | II0 | C23-C25 | 6.19 | 1.54 | 1.42 |
| 38 | f | 616 | II0 | C23-C25 | 6.18 | 1.54 | 1.42 |
| 38 | b | 314 | II0 | C23-C25 | 6.17 | 1.54 | 1.42 |
| 38 | a | 317 | II0 | C23-C25 | 6.17 | 1.54 | 1.42 |
| 38 | c | 313 | II0 | C23-C25 | 6.16 | 1.54 | 1.42 |
| 38 | b | 315 | II0 | C21-C09 | 6.14 | 1.55 | 1.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | k | 619 | II0 | C23-C25 | 6.14 | 1.54 | 1.42 |
| 38 | i | 316 | II0 | C23-C25 | 6.14 | 1.54 | 1.42 |
| 38 | a | 315 | II0 | C21-C09 | 6.14 | 1.55 | 1.42 |
| 38 | d | 301 | II0 | C23-C25 | 6.12 | 1.54 | 1.42 |
| 38 | n | 618 | II0 | C23-C25 | 6.12 | 1.54 | 1.42 |
| 32 | L | 205 | WVN | C19-C22 | 6.12 | 1.59 | 1.45 |
| 38 | k | 616 | II0 | C23-C25 | 6.12 | 1.54 | 1.42 |
| 38 | i | 314 | II0 | C23-C25 | 6.11 | 1.54 | 1.42 |
| 38 | f | 615 | II0 | C23-C25 | 6.10 | 1.54 | 1.42 |
| 38 | m | 616 | II0 | C23-C25 | 6.10 | 1.54 | 1.42 |
| 38 | d | 315 | II0 | C23-C25 | 6.08 | 1.54 | 1.42 |
| 38 | k | 620 | II0 | C23-C25 | 6.07 | 1.54 | 1.42 |
| 38 | a | 315 | II0 | C23-C25 | 6.06 | 1.54 | 1.42 |
| 38 | g | 318 | II0 | C23-C25 | 6.06 | 1.54 | 1.42 |
| 38 | b | 315 | II0 | C23-C25 | 6.06 | 1.54 | 1.42 |
| 32 | M | 101 | WVN | C19-C22 | 6.06 | 1.59 | 1.45 |
| 38 | j | 315 | II0 | C23-C25 | 6.05 | 1.54 | 1.42 |
| 38 | d | 316 | II0 | C23-C25 | 6.04 | 1.54 | 1.42 |
| 38 | b | 301 | II0 | C23-C25 | 6.04 | 1.54 | 1.42 |
| 38 | a | 314 | II0 | C23-C25 | 6.04 | 1.54 | 1.42 |
| 38 | f | 614 | II0 | C23-C25 | 6.04 | 1.54 | 1.42 |
| 38 | i | 313 | II0 | C23-C25 | 6.04 | 1.54 | 1.42 |
| 38 | e | 312 | II0 | C23-C25 | 6.03 | 1.54 | 1.42 |
| 38 | e | 314 | II0 | C23-C25 | 6.03 | 1.54 | 1.42 |
| 38 | g | 319 | II0 | C23-C25 | 6.01 | 1.54 | 1.42 |
| 32 | l | 316 | WVN | C19-C22 | 6.01 | 1.58 | 1.45 |
| 38 | j | 316 | II0 | C23-C25 | 6.01 | 1.54 | 1.42 |
| 38 | l | 314 | II0 | C23-C25 | 6.01 | 1.54 | 1.42 |
| 38 | a | 313 | II0 | C23-C25 | 6.00 | 1.54 | 1.42 |
| 38 | n | 616 | II0 | C23-C25 | 5.99 | 1.54 | 1.42 |
| 38 | h | 309 | II0 | C23-C25 | 5.98 | 1.54 | 1.42 |
| 38 | m | 614 | II0 | C23-C25 | 5.98 | 1.54 | 1.42 |
| 40 | i | 310 | KC2 | O2A-CGA | 5.98 | 1.45 | 1.30 |
| 38 | e | 313 | II0 | C24-C22 | 5.97 | 1.37 | 1.20 |
| 38 | k | 616 | II0 | C24-C22 | 5.97 | 1.37 | 1.20 |
| 38 | j | 301 | II0 | C24-C22 | 5.96 | 1.37 | 1.20 |
| 38 | i | 314 | II0 | C24-C22 | 5.95 | 1.37 | 1.20 |
| 38 | d | 317 | II0 | C24-C22 | 5.95 | 1.37 | 1.20 |
| 40 | i | 318 | KC2 | O2A-CGA | 5.93 | 1.45 | 1.30 |
| 38 | j | 316 | II0 | C24-C22 | 5.93 | 1.37 | 1.20 |
| 38 | k | 615 | II0 | C24-C22 | 5.93 | 1.37 | 1.20 |
| 32 | R | 202 | WVN | C19-C22 | 5.92 | 1.58 | 1.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | h | 310 | II0 | C23-C25 | 5.92 | 1.53 | 1.42 |
| 38 | m | 616 | II0 | C24-C22 | 5.91 | 1.37 | 1.20 |
| 38 | l | 315 | II0 | C24-C22 | 5.90 | 1.37 | 1.20 |
| 38 | h | 311 | II0 | C23-C25 | 5.90 | 1.53 | 1.42 |
| 38 | d | 315 | II0 | C24-C22 | 5.90 | 1.37 | 1.20 |
| 38 | i | 319 | II0 | C24-C22 | 5.88 | 1.37 | 1.20 |
| 38 | g | 318 | II0 | C24-C22 | 5.88 | 1.37 | 1.20 |
| 38 | m | 618 | II0 | C24-C22 | 5.88 | 1.37 | 1.20 |
| 38 | m | 615 | II0 | C23-C25 | 5.88 | 1.53 | 1.42 |
| 40 | f | 611 | KC2 | O2A-CGA | 5.88 | 1.45 | 1.30 |
| 32 | B | 846 | WVN | C02-C11 | 5.87 | 1.58 | 1.50 |
| 38 | f | 618 | II0 | C24-C22 | 5.87 | 1.37 | 1.20 |
| 32 | i | 315 | WVN | C19-C22 | 5.87 | 1.58 | 1.45 |
| 40 | k | 611 | KC2 | O2A-CGA | 5.87 | 1.45 | 1.30 |
| 38 | k | 615 | II0 | C23-C25 | 5.87 | 1.53 | 1.42 |
| 38 | f | 615 | II0 | C24-C22 | 5.87 | 1.37 | 1.20 |
| 38 | b | 301 | II0 | C24-C22 | 5.86 | 1.37 | 1.20 |
| 38 | b | 315 | II0 | C24-C22 | 5.86 | 1.37 | 1.20 |
| 40 | e | 309 | KC2 | O2A-CGA | 5.86 | 1.45 | 1.30 |
| 38 | e | 313 | II0 | C23-C25 | 5.85 | 1.53 | 1.42 |
| 38 | l | 313 | II0 | C24-C22 | 5.83 | 1.37 | 1.20 |
| 40 | d | 311 | KC2 | O2A-CGA | 5.82 | 1.45 | 1.30 |
| 32 | A | 845 | WVN | C19-C22 | 5.81 | 1.58 | 1.45 |
| 38 | n | 618 | II0 | C24-C22 | 5.81 | 1.37 | 1.20 |
| 38 | a | 314 | II0 | C24-C22 | 5.80 | 1.37 | 1.20 |
| 40 | j | 312 | KC2 | O2A-CGA | 5.80 | 1.45 | 1.30 |
| 38 | m | 615 | II0 | C24-C22 | 5.79 | 1.37 | 1.20 |
| 38 | l | 314 | II0 | C24-C22 | 5.78 | 1.37 | 1.20 |
| 40 | d | 311 | KC2 | C1A-NA | -5.78 | 1.26 | 1.38 |
| 40 | c | 310 | KC2 | O2A-CGA | 5.78 | 1.45 | 1.30 |
| 40 | c | 310 | KC2 | C3B-C2B | 5.78 | 1.49 | 1.37 |
| 40 | n | 611 | KC2 | O2A-CGA | 5.77 | 1.45 | 1.30 |
| 40 | g | 315 | KC2 | C3C-C2C | 5.77 | 1.49 | 1.37 |
| 40 | m | 611 | KC2 | O2A-CGA | 5.76 | 1.45 | 1.30 |
| 38 | f | 616 | II0 | C24-C22 | 5.75 | 1.37 | 1.20 |
| 40 | l | 311 | KC2 | C3B-C2B | 5.75 | 1.48 | 1.37 |
| 40 | s | 401 | KC2 | O2A-CGA | 5.75 | 1.45 | 1.30 |
| 38 | g | 317 | II0 | C24-C22 | 5.75 | 1.37 | 1.20 |
| 40 | g | 314 | KC2 | O2A-CGA | 5.74 | 1.45 | 1.30 |
| 38 | f | 614 | II0 | C24-C22 | 5.74 | 1.37 | 1.20 |
| 40 | g | 315 | KC2 | O2A-CGA | 5.74 | 1.45 | 1.30 |
| 38 | h | 311 | II0 | C24-C22 | 5.73 | 1.37 | 1.20 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | c | 310 | KC2 | C1A-NA | -5.73 | 1.26 | 1.38 |
| 32 | R | 201 | WVN | C02-C11 | 5.72 | 1.58 | 1.50 |
| 40 | g | 313 | KC2 | O2A-CGA | 5.71 | 1.45 | 1.30 |
| 32 | K | 103 | WVN | C19-C22 | 5.71 | 1.58 | 1.45 |
| 38 | m | 614 | II0 | C24-C22 | 5.70 | 1.36 | 1.20 |
| 40 | l | 311 | KC2 | O2A-CGA | 5.69 | 1.45 | 1.30 |
| 32 | e | 315 | WVN | C19-C22 | 5.69 | 1.58 | 1.45 |
| 40 | d | 311 | KC2 | C3D-C2D | 5.69 | 1.49 | 1.39 |
| 32 | h | 308 | WVN | C19-C22 | 5.69 | 1.58 | 1.45 |
| 38 | e | 312 | II0 | C24-C22 | 5.68 | 1.36 | 1.20 |
| 38 | a | 315 | II0 | C24-C22 | 5.67 | 1.36 | 1.20 |
| 32 | s | 407 | WVN | C19-C22 | 5.67 | 1.58 | 1.45 |
| 38 | h | 310 | II0 | C24-C22 | 5.66 | 1.36 | 1.20 |
| 38 | n | 616 | II0 | C24-C22 | 5.65 | 1.36 | 1.20 |
| 38 | c | 313 | II0 | C24-C22 | 5.64 | 1.36 | 1.20 |
| 38 | d | 316 | II0 | C24-C22 | 5.64 | 1.36 | 1.20 |
| 40 | i | 310 | KC2 | C1A-NA | -5.64 | 1.27 | 1.38 |
| 38 | n | 615 | II0 | C24-C22 | 5.63 | 1.36 | 1.20 |
| 38 | i | 313 | II0 | C24-C22 | 5.63 | 1.36 | 1.20 |
| 40 | i | 318 | KC2 | C3B-C2B | 5.62 | 1.48 | 1.37 |
| 38 | g | 319 | II0 | C24-C22 | 5.62 | 1.36 | 1.20 |
| 38 | i | 316 | II0 | C24-C22 | 5.61 | 1.36 | 1.20 |
| 38 | k | 619 | II0 | C24-C22 | 5.60 | 1.36 | 1.20 |
| 38 | e | 314 | II0 | C24-C22 | 5.60 | 1.36 | 1.20 |
| 38 | k | 620 | II0 | C24-C22 | 5.59 | 1.36 | 1.20 |
| 40 | e | 309 | KC2 | C1A-NA | -5.59 | 1.27 | 1.38 |
| 40 | m | 611 | KC2 | C3B-C2B | 5.59 | 1.48 | 1.37 |
| 40 | m | 611 | KC2 | C1A-NA | -5.59 | 1.27 | 1.38 |
| 38 | J | 103 | II0 | C24-C22 | 5.59 | 1.36 | 1.20 |
| 38 | j | 315 | II0 | C24-C22 | 5.59 | 1.36 | 1.20 |
| 38 | a | 317 | II0 | C24-C22 | 5.58 | 1.36 | 1.20 |
| 40 | e | 309 | KC2 | C3D-C2D | 5.57 | 1.49 | 1.39 |
| 40 | g | 315 | KC2 | C3B-C2B | 5.57 | 1.48 | 1.37 |
| 38 | b | 314 | II0 | C24-C22 | 5.56 | 1.36 | 1.20 |
| 38 | d | 301 | II0 | C24-C22 | 5.55 | 1.36 | 1.20 |
| 32 | F | 204 | WVN | C19-C22 | 5.54 | 1.57 | 1.45 |
| 40 | g | 313 | KC2 | C3B-C2B | 5.52 | 1.48 | 1.37 |
| 40 | e | 309 | KC2 | C3B-C2B | 5.52 | 1.48 | 1.37 |
| 38 | a | 313 | II0 | C24-C22 | 5.52 | 1.36 | 1.20 |
| 40 | g | 313 | KC2 | C1A-NA | -5.50 | 1.27 | 1.38 |
| 40 | f | 611 | KC2 | C1A-NA | -5.50 | 1.27 | 1.38 |
| 40 | k | 611 | KC2 | C3B-C2B | 5.50 | 1.48 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | i | 318 | KC2 | C3D-C2D | 5.50 | 1.49 | 1.39 |
| 32 | A | 846 | WVN | C19-C22 | 5.49 | 1.57 | 1.45 |
| 40 | g | 314 | KC2 | C3B-C2B | 5.48 | 1.48 | 1.37 |
| 38 | j | 301 | II0 | C23-C21 | 5.48 | 1.36 | 1.20 |
| 40 | i | 310 | KC2 | C3B-C2B | 5.46 | 1.48 | 1.37 |
| 40 | n | 611 | KC2 | C1A-NA | -5.46 | 1.27 | 1.38 |
| 38 | l | 315 | II0 | C23-C21 | 5.46 | 1.36 | 1.20 |
| 40 | j | 312 | KC2 | C1A-NA | -5.45 | 1.27 | 1.38 |
| 40 | s | 401 | KC2 | C1A-NA | -5.43 | 1.27 | 1.38 |
| 40 | i | 318 | KC2 | C1A-NA | -5.42 | 1.27 | 1.38 |
| 40 | j | 312 | KC2 | C3D-C2D | 5.42 | 1.49 | 1.39 |
| 38 | f | 618 | II0 | C23-C21 | 5.41 | 1.36 | 1.20 |
| 40 | g | 315 | KC2 | C3D-C2D | 5.41 | 1.49 | 1.39 |
| 40 | j | 312 | KC2 | C3B-C2B | 5.41 | 1.48 | 1.37 |
| 40 | n | 611 | KC2 | C3B-C2B | 5.40 | 1.48 | 1.37 |
| 40 | n | 611 | KC2 | C3D-C2D | 5.40 | 1.49 | 1.39 |
| 38 | m | 618 | II0 | C23-C21 | 5.39 | 1.36 | 1.20 |
| 40 | s | 401 | KC2 | C3B-C2B | 5.39 | 1.48 | 1.37 |
| 40 | s | 401 | KC2 | C3D-C2D | 5.37 | 1.49 | 1.39 |
| 32 | B | 846 | WVN | C19-C22 | 5.36 | 1.57 | 1.45 |
| 32 | I | 101 | WVN | C19-C22 | 5.36 | 1.57 | 1.45 |
| 40 | f | 611 | KC2 | C3B-C2B | 5.35 | 1.48 | 1.37 |
| 32 | s | 405 | WVN | C19-C22 | 5.35 | 1.57 | 1.45 |
| 40 | s | 404 | KC2 | O2A-CGA | 5.35 | 1.44 | 1.30 |
| 38 | a | 317 | II0 | C23-C21 | 5.35 | 1.35 | 1.20 |
| 40 | l | 311 | KC2 | C3C-C2C | 5.34 | 1.48 | 1.37 |
| 38 | g | 317 | II0 | C23-C21 | 5.34 | 1.35 | 1.20 |
| 38 | k | 616 | II0 | C23-C21 | 5.34 | 1.35 | 1.20 |
| 40 | k | 611 | KC2 | C1A-NA | -5.34 | 1.27 | 1.38 |
| 40 | g | 314 | KC2 | C3D-C2D | 5.33 | 1.49 | 1.39 |
| 38 | i | 319 | II0 | C23-C21 | 5.32 | 1.35 | 1.20 |
| 40 | m | 611 | KC2 | C3D-C2D | 5.32 | 1.49 | 1.39 |
| 32 | A | 847 | WVN | C19-C22 | 5.31 | 1.57 | 1.45 |
| 40 | e | 309 | KC2 | C3C-C2C | 5.30 | 1.48 | 1.37 |
| 40 | d | 311 | KC2 | C3B-C2B | 5.30 | 1.48 | 1.37 |
| 40 | g | 313 | KC2 | C3D-C2D | 5.30 | 1.48 | 1.39 |
| 32 | B | 847 | WVN | C19-C22 | 5.30 | 1.57 | 1.45 |
| 32 | B | 848 | WVN | C19-C22 | 5.29 | 1.57 | 1.45 |
| 40 | i | 318 | KC2 | C3C-C2C | 5.28 | 1.48 | 1.37 |
| 40 | g | 315 | KC2 | C1A-NA | -5.27 | 1.27 | 1.38 |
| 40 | s | 404 | KC2 | C3C-C2C | 5.26 | 1.47 | 1.37 |
| 40 | e | 309 | KC2 | CHD-C4C | 5.26 | 1.48 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | l | 316 | WVN | C33-C34 | 5.25 | 1.57 | 1.45 |
| 40 | l | 311 | KC2 | C3D-C2D | 5.25 | 1.48 | 1.39 |
| 40 | s | 404 | KC2 | C1A-NA | -5.24 | 1.27 | 1.38 |
| 38 | f | 616 | II0 | C23-C21 | 5.24 | 1.35 | 1.20 |
| 40 | c | 310 | KC2 | C3D-C2D | 5.24 | 1.48 | 1.39 |
| 40 | k | 611 | KC2 | C3D-C2D | 5.24 | 1.48 | 1.39 |
| 38 | d | 317 | II0 | C23-C21 | 5.23 | 1.35 | 1.20 |
| 40 | i | 310 | KC2 | C3D-C2D | 5.22 | 1.48 | 1.39 |
| 32 | l | 302 | WVN | C19-C22 | 5.22 | 1.57 | 1.45 |
| 40 | i | 318 | KC2 | CHD-C4C | 5.22 | 1.48 | 1.35 |
| 38 | n | 616 | II0 | C23-C21 | 5.22 | 1.35 | 1.20 |
| 40 | d | 311 | KC2 | O2D-CGD | 5.20 | 1.45 | 1.33 |
| 38 | h | 309 | II0 | C23-C21 | 5.20 | 1.35 | 1.20 |
| 40 | g | 315 | KC2 | CHD-C4C | 5.20 | 1.48 | 1.35 |
| 40 | s | 404 | KC2 | C3D-C2D | 5.20 | 1.48 | 1.39 |
| 40 | d | 311 | KC2 | C3C-C2C | 5.19 | 1.47 | 1.37 |
| 38 | n | 615 | II0 | C23-C21 | 5.19 | 1.35 | 1.20 |
| 40 | i | 310 | KC2 | C3C-C2C | 5.19 | 1.47 | 1.37 |
| 40 | f | 611 | KC2 | C3D-C2D | 5.18 | 1.48 | 1.39 |
| 38 | a | 313 | II0 | C23-C21 | 5.17 | 1.35 | 1.20 |
| 40 | m | 611 | KC2 | CHD-C4C | 5.17 | 1.48 | 1.35 |
| 40 | j | 312 | KC2 | C3C-C2C | 5.16 | 1.47 | 1.37 |
| 38 | b | 314 | II0 | C23-C21 | 5.16 | 1.35 | 1.20 |
| 40 | n | 611 | KC2 | C3C-C2C | 5.15 | 1.47 | 1.37 |
| 32 | A | 844 | WVN | C19-C22 | 5.15 | 1.57 | 1.45 |
| 38 | i | 316 | II0 | C23-C21 | 5.15 | 1.35 | 1.20 |
| 40 | c | 310 | KC2 | CHD-C4C | 5.14 | 1.48 | 1.35 |
| 38 | k | 619 | II0 | C23-C21 | 5.14 | 1.35 | 1.20 |
| 38 | f | 615 | II0 | C23-C21 | 5.14 | 1.35 | 1.20 |
| 38 | J | 103 | II0 | C23-C21 | 5.14 | 1.35 | 1.20 |
| 38 | m | 616 | II0 | C23-C21 | 5.13 | 1.35 | 1.20 |
| 40 | k | 611 | KC2 | C3C-C2C | 5.13 | 1.47 | 1.37 |
| 38 | l | 314 | II0 | C23-C21 | 5.12 | 1.35 | 1.20 |
| 32 | F | 207 | WVN | C19-C22 | 5.11 | 1.56 | 1.45 |
| 38 | e | 313 | II0 | C34-C36 | 5.11 | 1.56 | 1.45 |
| 38 | k | 620 | II0 | C23-C21 | 5.11 | 1.35 | 1.20 |
| 38 | l | 313 | II0 | C23-C21 | 5.11 | 1.35 | 1.20 |
| 38 | g | 319 | II0 | C23-C21 | 5.11 | 1.35 | 1.20 |
| 40 | n | 611 | KC2 | CHD-C4C | 5.10 | 1.48 | 1.35 |
| 32 | B | 846 | WVN | C33-C34 | 5.10 | 1.56 | 1.45 |
| 40 | i | 310 | KC2 | CHD-C4C | 5.10 | 1.48 | 1.35 |
| 40 | g | 313 | KC2 | CHD-C4C | 5.09 | 1.48 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | b | 315 | II0 | C23-C21 | 5.09 | 1.35 | 1.20 |
| 40 | j | 312 | KC2 | CHD-C4C | 5.09 | 1.48 | 1.35 |
| 38 | i | 313 | II0 | C23-C21 | 5.09 | 1.35 | 1.20 |
| 38 | n | 618 | II0 | C23-C21 | 5.08 | 1.35 | 1.20 |
| 40 | s | 401 | KC2 | CHD-C4C | 5.08 | 1.48 | 1.35 |
| 38 | j | 315 | II0 | C23-C21 | 5.08 | 1.35 | 1.20 |
| 40 | d | 311 | KC2 | CHD-C4C | 5.08 | 1.48 | 1.35 |
| 38 | e | 314 | II0 | C23-C21 | 5.07 | 1.35 | 1.20 |
| 40 | i | 318 | KC2 | O2D-CGD | 5.07 | 1.45 | 1.33 |
| 38 | c | 313 | II0 | C23-C21 | 5.07 | 1.35 | 1.20 |
| 38 | h | 311 | II0 | C23-C21 | 5.07 | 1.35 | 1.20 |
| 38 | j | 316 | II0 | C23-C21 | 5.06 | 1.35 | 1.20 |
| 40 | k | 611 | KC2 | CHD-C4C | 5.05 | 1.47 | 1.35 |
| 40 | g | 314 | KC2 | CHD-C4C | 5.05 | 1.47 | 1.35 |
| 38 | d | 315 | II0 | C23-C21 | 5.05 | 1.35 | 1.20 |
| 38 | a | 314 | II0 | C23-C21 | 5.04 | 1.35 | 1.20 |
| 38 | d | 301 | II0 | C23-C21 | 5.04 | 1.35 | 1.20 |
| 40 | l | 311 | KC2 | C1A-NA | -5.04 | 1.28 | 1.38 |
| 32 | L | 201 | WVN | C19-C22 | 5.03 | 1.56 | 1.45 |
| 38 | f | 614 | II0 | C23-C21 | 5.03 | 1.35 | 1.20 |
| 38 | a | 315 | II0 | C23-C21 | 5.03 | 1.35 | 1.20 |
| 32 | B | 849 | WVN | C19-C22 | 5.02 | 1.56 | 1.45 |
| 38 | g | 318 | II0 | C23-C21 | 5.01 | 1.34 | 1.20 |
| 40 | s | 404 | KC2 | C3B-C2B | 5.00 | 1.47 | 1.37 |
| 40 | s | 401 | KC2 | C3C-C2C | 5.00 | 1.47 | 1.37 |
| 38 | i | 314 | II0 | C23-C21 | 4.99 | 1.34 | 1.20 |
| 40 | k | 611 | KC2 | O2D-CGD | 4.99 | 1.45 | 1.33 |
| 40 | i | 310 | KC2 | O2D-CGD | 4.99 | 1.45 | 1.33 |
| 40 | g | 313 | KC2 | C3C-C2C | 4.99 | 1.47 | 1.37 |
| 38 | e | 312 | II0 | C23-C21 | 4.98 | 1.34 | 1.20 |
| 40 | g | 315 | KC2 | O2D-CGD | 4.98 | 1.45 | 1.33 |
| 40 | m | 611 | KC2 | C3C-C2C | 4.97 | 1.47 | 1.37 |
| 32 | I | 101 | WVN | C33-C34 | 4.97 | 1.56 | 1.45 |
| 40 | e | 309 | KC2 | O2D-CGD | 4.97 | 1.45 | 1.33 |
| 38 | e | 313 | II0 | C23-C21 | 4.97 | 1.34 | 1.20 |
| 38 | d | 316 | II0 | C23-C21 | 4.97 | 1.34 | 1.20 |
| 38 | d | 315 | II0 | C34-C36 | 4.96 | 1.56 | 1.45 |
| 38 | d | 317 | II0 | C34-C36 | 4.96 | 1.56 | 1.45 |
| 38 | b | 301 | II0 | C23-C21 | 4.96 | 1.34 | 1.20 |
| 40 | c | 310 | KC2 | O2D-CGD | 4.96 | 1.45 | 1.33 |
| 40 | f | 611 | KC2 | CHD-C4C | 4.95 | 1.47 | 1.35 |
| 40 | c | 310 | KC2 | C3C-C2C | 4.95 | 1.47 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | k | 615 | II0 | C23-C21 | 4.95 | 1.34 | 1.20 |
| 32 | R | 201 | WVN | C19-C22 | 4.94 | 1.56 | 1.45 |
| 38 | m | 614 | II0 | C23-C21 | 4.94 | 1.34 | 1.20 |
| 38 | h | 310 | II0 | C23-C21 | 4.94 | 1.34 | 1.20 |
| 32 | L | 206 | WVN | C19-C22 | 4.94 | 1.56 | 1.45 |
| 40 | f | 611 | KC2 | C3C-C2C | 4.94 | 1.47 | 1.37 |
| 38 | i | 319 | II0 | C34-C36 | 4.93 | 1.56 | 1.45 |
| 38 | m | 615 | II0 | C23-C21 | 4.92 | 1.34 | 1.20 |
| 32 | L | 201 | WVN | C33-C34 | 4.88 | 1.56 | 1.45 |
| 32 | s | 407 | WVN | C33-C34 | 4.88 | 1.56 | 1.45 |
| 40 | s | 404 | KC2 | CHD-C4C | 4.87 | 1.47 | 1.35 |
| 40 | l | 311 | KC2 | CHD-C4C | 4.87 | 1.47 | 1.35 |
| 40 | g | 314 | KC2 | C1A-NA | -4.87 | 1.28 | 1.38 |
| 38 | l | 313 | II0 | C34-C36 | 4.87 | 1.56 | 1.45 |
| 40 | s | 401 | KC2 | O2D-CGD | 4.86 | 1.45 | 1.33 |
| 40 | g | 314 | KC2 | C3C-C2C | 4.85 | 1.47 | 1.37 |
| 40 | m | 611 | KC2 | O2D-CGD | 4.85 | 1.45 | 1.33 |
| 40 | l | 311 | KC2 | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 32 | B | 847 | WVN | C33-C34 | 4.84 | 1.56 | 1.45 |
| 40 | s | 404 | KC2 | O2D-CGD | 4.81 | 1.44 | 1.33 |
| 28 | A | 801 | CL0 | MG-NA | 4.80 | 2.17 | 2.06 |
| 40 | j | 312 | KC2 | O2D-CGD | 4.80 | 1.44 | 1.33 |
| 28 | A | 801 | CL0 | C4B-NB | 4.80 | 1.39 | 1.35 |
| 38 | i | 314 | II0 | C34-C36 | 4.77 | 1.56 | 1.45 |
| 40 | n | 611 | KC2 | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 32 | J | 101 | WVN | C33-C34 | 4.75 | 1.56 | 1.45 |
| 38 | l | 314 | II0 | C34-C36 | 4.72 | 1.56 | 1.45 |
| 32 | A | 846 | WVN | C33-C34 | 4.72 | 1.56 | 1.45 |
| 32 | l | 302 | WVN | C33-C34 | 4.72 | 1.56 | 1.45 |
| 40 | i | 318 | KC2 | CHB-C1B | 4.71 | 1.47 | 1.38 |
| 40 | k | 611 | KC2 | CHC-C4B | 4.71 | 1.47 | 1.38 |
| 40 | g | 313 | KC2 | O2D-CGD | 4.69 | 1.44 | 1.33 |
| 38 | l | 314 | II0 | C32-C30 | 4.68 | 1.57 | 1.43 |
| 40 | d | 312 | KC2 | C4D-ND | -4.67 | 1.31 | 1.35 |
| 38 | i | 314 | II0 | C32-C30 | 4.67 | 1.57 | 1.43 |
| 32 | F | 204 | WVN | C33-C34 | 4.66 | 1.56 | 1.45 |
| 40 | g | 315 | KC2 | CHC-C4B | 4.64 | 1.47 | 1.38 |
| 40 | c | 310 | KC2 | CHC-C4B | 4.63 | 1.47 | 1.38 |
| 32 | A | 854 | WVN | C19-C22 | 4.61 | 1.55 | 1.45 |
| 40 | i | 318 | KC2 | CHC-C4B | 4.60 | 1.47 | 1.38 |
| 40 | g | 314 | KC2 | O2D-CGD | 4.60 | 1.44 | 1.33 |
| 38 | a | 314 | II0 | C32-C30 | 4.58 | 1.57 | 1.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | e | 309 | KC2 | CHB-C1B | 4.56 | 1.47 | 1.38 |
| 33 | A | 849 | LMU | O5'-C5' | 4.55 | 1.55 | 1.44 |
| 38 | m | 618 | II0 | C32-C30 | 4.54 | 1.57 | 1.43 |
| 40 | n | 612 | KC2 | C4D-ND | -4.54 | 1.31 | 1.35 |
| 32 | h | 308 | WVN | C29-C26 | 4.53 | 1.57 | 1.43 |
| 28 | A | 801 | CL0 | MG-NC | 4.53 | 2.17 | 2.06 |
| 40 | k | 612 | KC2 | C1D-ND | 4.51 | 1.39 | 1.35 |
| 32 | l | 316 | WVN | C29-C26 | 4.51 | 1.57 | 1.43 |
| 40 | i | 310 | KC2 | CHC-C4B | 4.50 | 1.47 | 1.38 |
| 32 | I | 101 | WVN | C29-C26 | 4.50 | 1.57 | 1.43 |
| 40 | f | 611 | KC2 | O2D-CGD | 4.50 | 1.44 | 1.33 |
| 40 | g | 314 | KC2 | CHB-C1B | 4.49 | 1.47 | 1.38 |
| 38 | f | 615 | II0 | C32-C30 | 4.49 | 1.57 | 1.43 |
| 38 | f | 618 | II0 | C32-C30 | 4.49 | 1.57 | 1.43 |
| 32 | M | 101 | WVN | C29-C26 | 4.49 | 1.57 | 1.43 |
| 38 | m | 615 | II0 | C32-C30 | 4.49 | 1.57 | 1.43 |
| 38 | l | 313 | II0 | C32-C30 | 4.48 | 1.57 | 1.43 |
| 38 | b | 301 | II0 | C32-C30 | 4.48 | 1.57 | 1.43 |
| 38 | k | 615 | II0 | C32-C30 | 4.47 | 1.57 | 1.43 |
| 38 | i | 319 | II0 | C32-C30 | 4.47 | 1.57 | 1.43 |
| 29 | K | 102 | CLA | C1D-ND | 4.47 | 1.43 | 1.37 |
| 32 | i | 315 | WVN | C29-C26 | 4.46 | 1.57 | 1.43 |
| 40 | g | 313 | KC2 | CHB-C1B | 4.46 | 1.47 | 1.38 |
| 40 | e | 309 | KC2 | CHC-C4B | 4.45 | 1.47 | 1.38 |
| 38 | a | 314 | II0 | C34-C36 | 4.45 | 1.55 | 1.45 |
| 33 | i | 301 | LMU | O5'-C5' | 4.44 | 1.55 | 1.44 |
| 38 | j | 316 | II0 | C32-C30 | 4.44 | 1.57 | 1.43 |
| 38 | m | 614 | II0 | C32-C30 | 4.43 | 1.57 | 1.43 |
| 38 | g | 318 | II0 | C32-C30 | 4.43 | 1.57 | 1.43 |
| 32 | e | 315 | WVN | C29-C26 | 4.43 | 1.57 | 1.43 |
| 38 | b | 315 | II0 | C32-C30 | 4.43 | 1.57 | 1.43 |
| 40 | f | 611 | KC2 | CHB-C1B | 4.42 | 1.47 | 1.38 |
| 38 | e | 313 | II0 | C32-C30 | 4.42 | 1.57 | 1.43 |
| 38 | d | 317 | II0 | C32-C30 | 4.42 | 1.57 | 1.43 |
| 38 | k | 619 | II0 | C32-C30 | 4.41 | 1.57 | 1.43 |
| 32 | A | 854 | WVN | C29-C26 | 4.41 | 1.57 | 1.43 |
| 40 | i | 310 | KC2 | OBD-CAD | 4.41 | 1.28 | 1.22 |
| 38 | n | 618 | II0 | C32-C30 | 4.41 | 1.57 | 1.43 |
| 32 | M | 101 | WVN | C31-C32 | 4.40 | 1.55 | 1.45 |
| 32 | I | 101 | WVN | C31-C32 | 4.40 | 1.55 | 1.45 |
| 28 | A | 801 | CL0 | C4C-C3C | -4.39 | 1.37 | 1.45 |
| 33 | A | 849 | LMU | O5B-C5B | 4.39 | 1.55 | 1.44 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | s | 401 | KC2 | CHB-C1B | 4.39 | 1.46 | 1.38 |
| 40 | m | 611 | KC2 | CHC-C4B | 4.39 | 1.46 | 1.38 |
| 28 | A | 801 | CL0 | C1C-C2C | -4.39 | 1.36 | 1.44 |
| 38 | n | 615 | II0 | C32-C30 | 4.38 | 1.57 | 1.43 |
| 38 | c | 313 | II0 | C32-C30 | 4.38 | 1.57 | 1.43 |
| 38 | d | 316 | II0 | C32-C30 | 4.38 | 1.57 | 1.43 |
| 32 | l | 316 | WVN | C31-C32 | 4.38 | 1.55 | 1.45 |
| 38 | b | 314 | II0 | C32-C30 | 4.38 | 1.57 | 1.43 |
| 40 | k | 611 | KC2 | CHB-C1B | 4.38 | 1.46 | 1.38 |
| 32 | L | 205 | WVN | C29-C26 | 4.38 | 1.57 | 1.43 |
| 38 | f | 614 | II0 | C32-C30 | 4.37 | 1.57 | 1.43 |
| 38 | a | 317 | II0 | C32-C30 | 4.37 | 1.57 | 1.43 |
| 40 | c | 310 | KC2 | CHB-C1B | 4.37 | 1.46 | 1.38 |
| 40 | m | 611 | KC2 | OBD-CAD | 4.37 | 1.28 | 1.22 |
| 38 | m | 616 | II0 | C32-C30 | 4.37 | 1.57 | 1.43 |
| 32 | A | 847 | WVN | C29-C26 | 4.37 | 1.57 | 1.43 |
| 38 | d | 315 | II0 | C32-C30 | 4.36 | 1.57 | 1.43 |
| 38 | k | 616 | II0 | C32-C30 | 4.36 | 1.57 | 1.43 |
| 40 | n | 611 | KC2 | CHC-C4B | 4.36 | 1.46 | 1.38 |
| 38 | g | 317 | II0 | C32-C30 | 4.36 | 1.57 | 1.43 |
| 38 | i | 313 | II0 | C32-C30 | 4.36 | 1.57 | 1.43 |
| 40 | j | 312 | KC2 | CHB-C1B | 4.36 | 1.46 | 1.38 |
| 40 | k | 613 | KC2 | C1D-ND | 4.35 | 1.39 | 1.35 |
| 33 | i | 301 | LMU | O5B-C5B | 4.34 | 1.54 | 1.44 |
| 32 | h | 308 | WVN | C31-C32 | 4.34 | 1.55 | 1.45 |
| 40 | f | 611 | KC2 | OBD-CAD | 4.34 | 1.28 | 1.22 |
| 38 | d | 317 | II0 | C31-C29 | 4.34 | 1.56 | 1.43 |
| 38 | h | 310 | II0 | C32-C30 | 4.34 | 1.56 | 1.43 |
| 32 | A | 847 | WVN | C31-C32 | 4.34 | 1.55 | 1.45 |
| 38 | e | 312 | II0 | C32-C30 | 4.34 | 1.56 | 1.43 |
| 40 | d | 311 | KC2 | CHB-C1B | 4.33 | 1.46 | 1.38 |
| 40 | d | 311 | KC2 | CHC-C4B | 4.33 | 1.46 | 1.38 |
| 40 | l | 311 | KC2 | CHB-C1B | 4.32 | 1.46 | 1.38 |
| 32 | L | 206 | WVN | C29-C26 | 4.32 | 1.56 | 1.43 |
| 38 | J | 103 | II0 | C32-C30 | 4.32 | 1.56 | 1.43 |
| 38 | f | 616 | II0 | C32-C30 | 4.32 | 1.56 | 1.43 |
| 38 | i | 314 | II0 | C31-C29 | 4.32 | 1.56 | 1.43 |
| 40 | m | 611 | KC2 | CHB-C1B | 4.31 | 1.46 | 1.38 |
| 40 | i | 318 | KC2 | OBD-CAD | 4.31 | 1.28 | 1.22 |
| 38 | h | 311 | II0 | C32-C30 | 4.30 | 1.56 | 1.43 |
| 38 | k | 620 | II0 | C32-C30 | 4.30 | 1.56 | 1.43 |
| 40 | s | 404 | KC2 | C1B-NB | -4.30 | 1.32 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | l | 315 | II0 | C32-C30 | 4.30 | 1.56 | 1.43 |
| 38 | e | 314 | II0 | C32-C30 | 4.29 | 1.56 | 1.43 |
| 38 | a | 315 | II0 | C32-C30 | 4.29 | 1.56 | 1.43 |
| 40 | s | 404 | KC2 | CHB-C1B | 4.29 | 1.46 | 1.38 |
| 38 | d | 316 | II0 | C31-C29 | 4.29 | 1.56 | 1.43 |
| 38 | g | 319 | II0 | C32-C30 | 4.28 | 1.56 | 1.43 |
| 38 | g | 317 | II0 | C31-C29 | 4.28 | 1.56 | 1.43 |
| 38 | n | 616 | II0 | C32-C30 | 4.28 | 1.56 | 1.43 |
| 38 | j | 301 | II0 | C32-C30 | 4.28 | 1.56 | 1.43 |
| 32 | B | 847 | WVN | C29-C26 | 4.28 | 1.56 | 1.43 |
| 40 | g | 313 | KC2 | CHC-C4B | 4.27 | 1.46 | 1.38 |
| 32 | e | 315 | WVN | C31-C32 | 4.27 | 1.55 | 1.45 |
| 38 | a | 313 | II0 | C32-C30 | 4.27 | 1.56 | 1.43 |
| 38 | k | 616 | II0 | C31-C29 | 4.27 | 1.56 | 1.43 |
| 29 | A | 827 | CLA | C1D-ND | 4.27 | 1.43 | 1.37 |
| 40 | s | 401 | KC2 | C4B-NB | -4.27 | 1.32 | 1.37 |
| 32 | F | 207 | WVN | C29-C26 | 4.27 | 1.56 | 1.43 |
| 40 | f | 611 | KC2 | C4B-NB | -4.26 | 1.32 | 1.37 |
| 32 | L | 201 | WVN | C29-C26 | 4.26 | 1.56 | 1.43 |
| 32 | A | 844 | WVN | C29-C26 | 4.26 | 1.56 | 1.43 |
| 38 | i | 316 | II0 | C32-C30 | 4.26 | 1.56 | 1.43 |
| 38 | j | 315 | II0 | C32-C30 | 4.25 | 1.56 | 1.43 |
| 32 | K | 103 | WVN | C29-C26 | 4.25 | 1.56 | 1.43 |
| 38 | d | 301 | II0 | C32-C30 | 4.25 | 1.56 | 1.43 |
| 40 | d | 311 | KC2 | OBD-CAD | 4.24 | 1.28 | 1.22 |
| 40 | n | 611 | KC2 | OBD-CAD | 4.24 | 1.28 | 1.22 |
| 38 | l | 314 | II0 | C31-C29 | 4.24 | 1.56 | 1.43 |
| 32 | R | 201 | WVN | C29-C26 | 4.23 | 1.56 | 1.43 |
| 32 | l | 302 | WVN | C29-C26 | 4.23 | 1.56 | 1.43 |
| 40 | k | 611 | KC2 | OBD-CAD | 4.23 | 1.28 | 1.22 |
| 32 | R | 202 | WVN | C29-C26 | 4.23 | 1.56 | 1.43 |
| 32 | s | 407 | WVN | C29-C26 | 4.23 | 1.56 | 1.43 |
| 40 | j | 312 | KC2 | OBD-CAD | 4.23 | 1.28 | 1.22 |
| 32 | l | 316 | WVN | C39-C36 | 4.23 | 1.56 | 1.43 |
| 38 | l | 315 | II0 | C31-C29 | 4.23 | 1.56 | 1.43 |
| 38 | l | 313 | II0 | C31-C29 | 4.23 | 1.56 | 1.43 |
| 38 | m | 618 | II0 | C34-C36 | 4.23 | 1.55 | 1.45 |
| 38 | a | 317 | II0 | C31-C29 | 4.23 | 1.56 | 1.43 |
| 38 | m | 616 | II0 | C31-C29 | 4.22 | 1.56 | 1.43 |
| 40 | g | 315 | KC2 | CHB-C1B | 4.22 | 1.46 | 1.38 |
| 40 | e | 309 | KC2 | OBD-CAD | 4.22 | 1.28 | 1.22 |
| 32 | K | 103 | WVN | C31-C32 | 4.22 | 1.55 | 1.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | s | 404 | KC2 | CHC-C4B | 4.21 | 1.46 | 1.38 |
| 40 | s | 401 | KC2 | CHC-C4B | 4.21 | 1.46 | 1.38 |
| 40 | l | 311 | KC2 | OBD-CAD | 4.21 | 1.28 | 1.22 |
| 32 | s | 405 | WVN | C29-C26 | 4.21 | 1.56 | 1.43 |
| 32 | L | 205 | WVN | C31-C32 | 4.20 | 1.55 | 1.45 |
| 32 | J | 101 | WVN | C29-C26 | 4.20 | 1.56 | 1.43 |
| 38 | k | 619 | II0 | C31-C29 | 4.20 | 1.56 | 1.43 |
| 30 | B | 843 | PQN | C2-C1 | -4.20 | 1.39 | 1.48 |
| 38 | i | 316 | II0 | C31-C29 | 4.20 | 1.56 | 1.43 |
| 40 | g | 313 | KC2 | C4B-NB | -4.20 | 1.32 | 1.37 |
| 38 | i | 313 | II0 | C31-C29 | 4.19 | 1.56 | 1.43 |
| 32 | e | 315 | WVN | C39-C36 | 4.19 | 1.56 | 1.43 |
| 38 | j | 316 | II0 | C31-C29 | 4.19 | 1.56 | 1.43 |
| 38 | c | 313 | II0 | C31-C29 | 4.19 | 1.56 | 1.43 |
| 32 | F | 207 | WVN | C39-C36 | 4.18 | 1.56 | 1.43 |
| 32 | R | 202 | WVN | C39-C36 | 4.18 | 1.56 | 1.43 |
| 38 | i | 319 | II0 | C31-C29 | 4.18 | 1.56 | 1.43 |
| 38 | a | 317 | II0 | C34-C36 | 4.18 | 1.54 | 1.45 |
| 38 | j | 301 | II0 | C31-C29 | 4.18 | 1.56 | 1.43 |
| 40 | k | 612 | KC2 | C4D-ND | -4.18 | 1.31 | 1.35 |
| 32 | A | 847 | WVN | C39-C36 | 4.18 | 1.56 | 1.43 |
| 38 | a | 314 | II0 | C31-C29 | 4.18 | 1.56 | 1.43 |
| 32 | A | 854 | WVN | C31-C32 | 4.17 | 1.54 | 1.45 |
| 32 | B | 849 | WVN | C29-C26 | 4.17 | 1.56 | 1.43 |
| 38 | n | 618 | II0 | C31-C29 | 4.17 | 1.56 | 1.43 |
| 38 | b | 301 | II0 | C31-C29 | 4.17 | 1.56 | 1.43 |
| 38 | l | 314 | II0 | C33-C35 | 4.17 | 1.54 | 1.45 |
| 40 | f | 611 | KC2 | C1B-NB | -4.16 | 1.32 | 1.37 |
| 38 | h | 310 | II0 | C31-C29 | 4.16 | 1.56 | 1.43 |
| 32 | M | 101 | WVN | C39-C36 | 4.16 | 1.56 | 1.43 |
| 38 | m | 618 | II0 | C31-C29 | 4.16 | 1.56 | 1.43 |
| 32 | A | 845 | WVN | C29-C26 | 4.15 | 1.56 | 1.43 |
| 38 | n | 615 | II0 | C31-C29 | 4.15 | 1.56 | 1.43 |
| 38 | a | 314 | II0 | C42-C40 | 4.15 | 1.56 | 1.43 |
| 38 | e | 314 | II0 | C31-C29 | 4.15 | 1.56 | 1.43 |
| 40 | n | 611 | KC2 | C4B-NB | -4.15 | 1.32 | 1.37 |
| 40 | i | 310 | KC2 | CHB-C1B | 4.15 | 1.46 | 1.38 |
| 32 | R | 202 | WVN | C31-C32 | 4.15 | 1.54 | 1.45 |
| 32 | s | 407 | WVN | C31-C32 | 4.14 | 1.54 | 1.45 |
| 40 | i | 310 | KC2 | C1B-NB | -4.14 | 1.32 | 1.37 |
| 38 | d | 315 | II0 | C31-C29 | 4.14 | 1.56 | 1.43 |
| 38 | k | 619 | II0 | C34-C36 | 4.14 | 1.54 | 1.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | l | 311 | KC2 | C1B-NB | -4.13 | 1.32 | 1.37 |
| 38 | g | 318 | II0 | C31-C29 | 4.13 | 1.56 | 1.43 |
| 32 | A | 854 | WVN | C33-C34 | 4.13 | 1.54 | 1.45 |
| 38 | b | 315 | II0 | C31-C29 | 4.13 | 1.56 | 1.43 |
| 32 | L | 206 | WVN | C33-C34 | 4.13 | 1.54 | 1.45 |
| 38 | m | 615 | II0 | C31-C29 | 4.13 | 1.56 | 1.43 |
| 32 | B | 848 | WVN | C29-C26 | 4.12 | 1.56 | 1.43 |
| 32 | F | 204 | WVN | C29-C26 | 4.12 | 1.56 | 1.43 |
| 40 | n | 612 | KC2 | C1D-ND | 4.12 | 1.38 | 1.35 |
| 38 | J | 103 | II0 | C31-C29 | 4.12 | 1.56 | 1.43 |
| 38 | e | 312 | II0 | C31-C29 | 4.12 | 1.56 | 1.43 |
| 38 | j | 315 | II0 | C31-C29 | 4.12 | 1.56 | 1.43 |
| 38 | f | 615 | II0 | C31-C29 | 4.12 | 1.56 | 1.43 |
| 38 | m | 614 | II0 | C31-C29 | 4.11 | 1.56 | 1.43 |
| 38 | k | 620 | II0 | C31-C29 | 4.11 | 1.56 | 1.43 |
| 38 | i | 314 | II0 | C33-C35 | 4.11 | 1.54 | 1.45 |
| 38 | b | 314 | II0 | C31-C29 | 4.11 | 1.56 | 1.43 |
| 32 | B | 847 | WVN | C31-C32 | 4.11 | 1.54 | 1.45 |
| 38 | i | 314 | II0 | C42-C40 | 4.11 | 1.56 | 1.43 |
| 29 | d | 304 | CLA | C1D-ND | 4.11 | 1.42 | 1.37 |
| 32 | i | 315 | WVN | C39-C36 | 4.11 | 1.56 | 1.43 |
| 32 | I | 101 | WVN | C39-C36 | 4.10 | 1.56 | 1.43 |
| 38 | h | 311 | II0 | C31-C29 | 4.10 | 1.56 | 1.43 |
| 38 | k | 615 | II0 | C31-C29 | 4.10 | 1.56 | 1.43 |
| 40 | s | 401 | KC2 | C1B-NB | -4.10 | 1.32 | 1.37 |
| 32 | F | 207 | WVN | C31-C32 | 4.10 | 1.54 | 1.45 |
| 38 | f | 614 | II0 | C31-C29 | 4.10 | 1.56 | 1.43 |
| 40 | g | 314 | KC2 | CHC-C4B | 4.09 | 1.46 | 1.38 |
| 32 | J | 101 | WVN | C39-C36 | 4.09 | 1.56 | 1.43 |
| 38 | a | 313 | II0 | C31-C29 | 4.09 | 1.56 | 1.43 |
| 40 | l | 311 | KC2 | CHC-C4B | 4.09 | 1.46 | 1.38 |
| 32 | l | 316 | WVN | C40-C37 | 4.09 | 1.56 | 1.43 |
| 32 | A | 846 | WVN | C29-C26 | 4.09 | 1.56 | 1.43 |
| 38 | a | 315 | II0 | C31-C29 | 4.09 | 1.56 | 1.43 |
| 30 | A | 841 | PQN | C2-C1 | -4.09 | 1.39 | 1.48 |
| 38 | n | 616 | II0 | C31-C29 | 4.08 | 1.56 | 1.43 |
| 38 | g | 317 | II0 | C33-C35 | 4.08 | 1.54 | 1.45 |
| 40 | j | 312 | KC2 | C4B-NB | -4.08 | 1.32 | 1.37 |
| 38 | f | 618 | II0 | C31-C29 | 4.08 | 1.56 | 1.43 |
| 32 | F | 207 | WVN | C30-C28 | 4.08 | 1.56 | 1.43 |
| 32 | s | 407 | WVN | C39-C36 | 4.08 | 1.56 | 1.43 |
| 32 | K | 103 | WVN | C39-C36 | 4.08 | 1.56 | 1.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | g | 318 | II0 | C34-C36 | 4.07 | 1.54 | 1.45 |
| 40 | d | 311 | KC2 | C4B-NB | -4.07 | 1.32 | 1.37 |
| 40 | j | 312 | KC2 | CHC-C4B | 4.07 | 1.46 | 1.38 |
| 32 | i | 315 | WVN | C31-C32 | 4.07 | 1.54 | 1.45 |
| 40 | l | 311 | KC2 | C4B-NB | -4.07 | 1.32 | 1.37 |
| 38 | g | 319 | II0 | C31-C29 | 4.07 | 1.56 | 1.43 |
| 32 | B | 847 | WVN | C39-C36 | 4.07 | 1.56 | 1.43 |
| 38 | d | 316 | II0 | C33-C35 | 4.07 | 1.54 | 1.45 |
| 32 | B | 846 | WVN | C39-C36 | 4.06 | 1.56 | 1.43 |
| 32 | A | 844 | WVN | C39-C36 | 4.06 | 1.56 | 1.43 |
| 32 | F | 204 | WVN | C39-C36 | 4.06 | 1.56 | 1.43 |
| 32 | L | 201 | WVN | C39-C36 | 4.06 | 1.56 | 1.43 |
| 40 | n | 611 | KC2 | C1B-NB | -4.05 | 1.32 | 1.37 |
| 32 | A | 846 | WVN | C30-C28 | 4.05 | 1.56 | 1.43 |
| 32 | A | 845 | WVN | C31-C32 | 4.05 | 1.54 | 1.45 |
| 32 | R | 201 | WVN | C31-C32 | 4.05 | 1.54 | 1.45 |
| 32 | l | 316 | WVN | C30-C28 | 4.05 | 1.56 | 1.43 |
| 32 | s | 405 | WVN | C39-C36 | 4.05 | 1.56 | 1.43 |
| 32 | h | 308 | WVN | C39-C36 | 4.05 | 1.56 | 1.43 |
| 32 | e | 315 | WVN | C40-C37 | 4.05 | 1.56 | 1.43 |
| 40 | g | 314 | KC2 | C1B-NB | -4.04 | 1.32 | 1.37 |
| 38 | j | 301 | II0 | C33-C35 | 4.04 | 1.54 | 1.45 |
| 32 | R | 202 | WVN | C33-C34 | 4.04 | 1.54 | 1.45 |
| 32 | L | 205 | WVN | C39-C36 | 4.04 | 1.56 | 1.43 |
| 32 | F | 207 | WVN | C40-C37 | 4.03 | 1.55 | 1.43 |
| 40 | g | 313 | KC2 | OBD-CAD | 4.03 | 1.27 | 1.22 |
| 29 | c | 311 | CLA | C1D-ND | 4.03 | 1.42 | 1.37 |
| 32 | R | 202 | WVN | C30-C28 | 4.03 | 1.55 | 1.43 |
| 32 | A | 854 | WVN | C39-C36 | 4.03 | 1.55 | 1.43 |
| 32 | R | 202 | WVN | C40-C37 | 4.03 | 1.55 | 1.43 |
| 38 | a | 314 | II0 | C41-C39 | 4.03 | 1.55 | 1.43 |
| 32 | A | 845 | WVN | C39-C36 | 4.03 | 1.55 | 1.43 |
| 32 | A | 846 | WVN | C39-C36 | 4.03 | 1.55 | 1.43 |
| 32 | A | 844 | WVN | C31-C32 | 4.03 | 1.54 | 1.45 |
| 38 | f | 618 | II0 | C34-C36 | 4.03 | 1.54 | 1.45 |
| 40 | g | 313 | KC2 | C1B-NB | -4.03 | 1.32 | 1.37 |
| 38 | l | 315 | II0 | C33-C35 | 4.03 | 1.54 | 1.45 |
| 32 | A | 854 | WVN | C23-C25 | 4.03 | 1.54 | 1.45 |
| 40 | g | 314 | KC2 | OBD-CAD | 4.02 | 1.27 | 1.22 |
| 38 | m | 615 | II0 | C34-C36 | 4.02 | 1.54 | 1.45 |
| 32 | A | 847 | WVN | C40-C37 | 4.02 | 1.55 | 1.43 |
| 32 | B | 849 | WVN | C33-C34 | 4.02 | 1.54 | 1.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | g | 315 | KC2 | OBD-CAD | 4.02 | 1.27 | 1.22 |
| 38 | g | 318 | II0 | C33-C35 | 4.02 | 1.54 | 1.45 |
| 29 | f | 608 | CLA | C1D-ND | 4.02 | 1.42 | 1.37 |
| 29 | d | 318 | CLA | C1D-ND | 4.02 | 1.42 | 1.37 |
| 29 | A | 823 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 38 | l | 313 | II0 | C42-C40 | 4.01 | 1.55 | 1.43 |
| 32 | B | 849 | WVN | C23-C25 | 4.01 | 1.54 | 1.45 |
| 38 | m | 618 | II0 | C33-C35 | 4.01 | 1.54 | 1.45 |
| 40 | n | 611 | KC2 | CHB-C1B | 4.01 | 1.46 | 1.38 |
| 40 | d | 312 | KC2 | C1D-ND | 4.01 | 1.38 | 1.35 |
| 38 | h | 309 | II0 | C31-C29 | 4.01 | 1.55 | 1.43 |
| 38 | l | 314 | II0 | C41-C39 | 4.01 | 1.55 | 1.43 |
| 38 | n | 615 | II0 | C33-C35 | 4.01 | 1.54 | 1.45 |
| 40 | m | 611 | KC2 | C4B-NB | -4.01 | 1.32 | 1.37 |
| 32 | L | 206 | WVN | C39-C36 | 4.01 | 1.55 | 1.43 |
| 38 | d | 317 | II0 | C33-C35 | 4.00 | 1.54 | 1.45 |
| 40 | k | 612 | KC2 | C3B-C4B | -4.00 | 1.38 | 1.46 |
| 32 | h | 308 | WVN | C30-C28 | 4.00 | 1.55 | 1.43 |
| 32 | B | 849 | WVN | C39-C36 | 4.00 | 1.55 | 1.43 |
| 32 | R | 202 | WVN | C23-C25 | 4.00 | 1.54 | 1.45 |
| 38 | k | 616 | II0 | C34-C36 | 3.99 | 1.54 | 1.45 |
| 38 | e | 313 | II0 | C31-C29 | 3.99 | 1.55 | 1.43 |
| 38 | d | 316 | II0 | C42-C40 | 3.99 | 1.55 | 1.43 |
| 32 | L | 205 | WVN | C23-C25 | 3.99 | 1.54 | 1.45 |
| 32 | e | 315 | WVN | C33-C34 | 3.99 | 1.54 | 1.45 |
| 38 | b | 314 | II0 | C34-C36 | 3.99 | 1.54 | 1.45 |
| 32 | J | 101 | WVN | C31-C32 | 3.98 | 1.54 | 1.45 |
| 38 | f | 615 | II0 | C34-C36 | 3.98 | 1.54 | 1.45 |
| 38 | f | 616 | II0 | C31-C29 | 3.98 | 1.55 | 1.43 |
| 40 | g | 314 | KC2 | C4B-NB | -3.98 | 1.32 | 1.37 |
| 32 | s | 405 | WVN | C33-C34 | 3.98 | 1.54 | 1.45 |
| 38 | i | 314 | II0 | C41-C39 | 3.98 | 1.55 | 1.43 |
| 38 | g | 318 | II0 | C42-C40 | 3.97 | 1.55 | 1.43 |
| 32 | F | 204 | WVN | C30-C28 | 3.97 | 1.55 | 1.43 |
| 32 | F | 204 | WVN | C23-C25 | 3.97 | 1.54 | 1.45 |
| 38 | b | 315 | II0 | C33-C35 | 3.97 | 1.54 | 1.45 |
| 38 | c | 313 | II0 | C42-C40 | 3.97 | 1.55 | 1.43 |
| 32 | L | 206 | WVN | C31-C32 | 3.97 | 1.54 | 1.45 |
| 38 | a | 314 | II0 | C33-C35 | 3.97 | 1.54 | 1.45 |
| 40 | k | 613 | KC2 | C4D-ND | -3.97 | 1.31 | 1.35 |
| 32 | A | 847 | WVN | C30-C28 | 3.97 | 1.55 | 1.43 |
| 32 | F | 204 | WVN | C31-C32 | 3.97 | 1.54 | 1.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | l | 307 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 29 | d | 310 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 38 | d | 301 | II0 | C31-C29 | 3.96 | 1.55 | 1.43 |
| 29 | i | 309 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 38 | b | 301 | II0 | C42-C40 | 3.96 | 1.55 | 1.43 |
| 38 | a | 317 | II0 | C33-C35 | 3.96 | 1.54 | 1.45 |
| 32 | B | 846 | WVN | C30-C28 | 3.96 | 1.55 | 1.43 |
| 32 | I | 101 | WVN | C40-C37 | 3.96 | 1.55 | 1.43 |
| 38 | k | 615 | II0 | C42-C40 | 3.96 | 1.55 | 1.43 |
| 32 | B | 848 | WVN | C39-C36 | 3.96 | 1.55 | 1.43 |
| 32 | s | 405 | WVN | C30-C28 | 3.96 | 1.55 | 1.43 |
| 32 | L | 205 | WVN | C33-C34 | 3.96 | 1.54 | 1.45 |
| 32 | R | 201 | WVN | C39-C36 | 3.96 | 1.55 | 1.43 |
| 40 | s | 401 | KC2 | OBD-CAD | 3.96 | 1.27 | 1.22 |
| 38 | j | 316 | II0 | C34-C36 | 3.96 | 1.54 | 1.45 |
| 29 | B | 816 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 38 | m | 616 | II0 | C42-C40 | 3.96 | 1.55 | 1.43 |
| 40 | f | 611 | KC2 | CHC-C4B | 3.95 | 1.46 | 1.38 |
| 32 | F | 207 | WVN | C23-C25 | 3.95 | 1.54 | 1.45 |
| 32 | L | 201 | WVN | C31-C32 | 3.95 | 1.54 | 1.45 |
| 32 | s | 405 | WVN | C40-C37 | 3.95 | 1.55 | 1.43 |
| 32 | h | 308 | WVN | C40-C37 | 3.95 | 1.55 | 1.43 |
| 38 | g | 317 | II0 | C42-C40 | 3.95 | 1.55 | 1.43 |
| 38 | j | 316 | II0 | C33-C35 | 3.95 | 1.54 | 1.45 |
| 32 | l | 302 | WVN | C39-C36 | 3.94 | 1.55 | 1.43 |
| 38 | J | 103 | II0 | C33-C35 | 3.94 | 1.54 | 1.45 |
| 29 | i | 305 | CLA | C1D-ND | 3.94 | 1.42 | 1.37 |
| 38 | i | 313 | II0 | C42-C40 | 3.94 | 1.55 | 1.43 |
| 32 | s | 405 | WVN | C31-C32 | 3.94 | 1.54 | 1.45 |
| 38 | f | 614 | II0 | C42-C40 | 3.94 | 1.55 | 1.43 |
| 32 | i | 315 | WVN | C30-C28 | 3.94 | 1.55 | 1.43 |
| 32 | l | 302 | WVN | C31-C32 | 3.93 | 1.54 | 1.45 |
| 38 | j | 316 | II0 | C42-C40 | 3.93 | 1.55 | 1.43 |
| 38 | n | 618 | II0 | C34-C36 | 3.93 | 1.54 | 1.45 |
| 38 | f | 616 | II0 | C42-C40 | 3.93 | 1.55 | 1.43 |
| 32 | L | 201 | WVN | C30-C28 | 3.93 | 1.55 | 1.43 |
| 38 | k | 619 | II0 | C33-C35 | 3.93 | 1.54 | 1.45 |
| 38 | h | 309 | II0 | C34-C36 | 3.93 | 1.54 | 1.45 |
| 40 | g | 314 | KC2 | C4D-ND | 3.93 | 1.38 | 1.35 |
| 32 | i | 315 | WVN | C33-C34 | 3.93 | 1.54 | 1.45 |
| 38 | k | 615 | II0 | C34-C36 | 3.93 | 1.54 | 1.45 |
| 38 | g | 319 | II0 | C42-C40 | 3.93 | 1.55 | 1.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | a | 317 | II0 | C42-C40 | 3.93 | 1.55 | 1.43 |
| 38 | f | 614 | II0 | C34-C36 | 3.93 | 1.54 | 1.45 |
| 38 | d | 316 | II0 | C34-C36 | 3.92 | 1.54 | 1.45 |
| 38 | i | 319 | II0 | C42-C40 | 3.92 | 1.55 | 1.43 |
| 40 | n | 612 | KC2 | C3B-C4B | -3.92 | 1.39 | 1.46 |
| 32 | B | 846 | WVN | C40-C37 | 3.92 | 1.55 | 1.43 |
| 38 | J | 103 | II0 | C42-C40 | 3.92 | 1.55 | 1.43 |
| 32 | A | 854 | WVN | C30-C28 | 3.92 | 1.55 | 1.43 |
| 38 | d | 317 | II0 | C42-C40 | 3.92 | 1.55 | 1.43 |
| 38 | m | 615 | II0 | C33-C35 | 3.92 | 1.54 | 1.45 |
| 32 | J | 101 | WVN | C30-C28 | 3.92 | 1.55 | 1.43 |
| 32 | B | 846 | WVN | C29-C26 | 3.92 | 1.55 | 1.43 |
| 32 | M | 101 | WVN | C40-C37 | 3.92 | 1.55 | 1.43 |
| 38 | e | 314 | II0 | C33-C35 | 3.92 | 1.54 | 1.45 |
| 29 | B | 825 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 40 | k | 613 | KC2 | C3B-C4B | -3.91 | 1.39 | 1.46 |
| 29 | k | 610 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 32 | e | 315 | WVN | C30-C28 | 3.91 | 1.55 | 1.43 |
| 38 | b | 315 | II0 | C34-C36 | 3.91 | 1.54 | 1.45 |
| 38 | e | 313 | II0 | C42-C40 | 3.91 | 1.55 | 1.43 |
| 32 | B | 848 | WVN | C31-C32 | 3.91 | 1.54 | 1.45 |
| 32 | F | 205 | WVN | C30-C28 | 3.91 | 1.55 | 1.43 |
| 32 | A | 844 | WVN | C23-C25 | 3.91 | 1.54 | 1.45 |
| 38 | f | 618 | II0 | C42-C40 | 3.91 | 1.55 | 1.43 |
| 38 | k | 616 | II0 | C33-C35 | 3.91 | 1.54 | 1.45 |
| 32 | A | 854 | WVN | C40-C37 | 3.91 | 1.55 | 1.43 |
| 32 | J | 101 | WVN | C40-C37 | 3.91 | 1.55 | 1.43 |
| 38 | n | 615 | II0 | C34-C36 | 3.91 | 1.54 | 1.45 |
| 38 | m | 618 | II0 | C42-C40 | 3.91 | 1.55 | 1.43 |
| 38 | i | 316 | II0 | C34-C36 | 3.91 | 1.54 | 1.45 |
| 38 | m | 616 | II0 | C33-C35 | 3.90 | 1.54 | 1.45 |
| 40 | c | 310 | KC2 | C1B-NB | -3.90 | 1.33 | 1.37 |
| 32 | L | 201 | WVN | C40-C37 | 3.90 | 1.55 | 1.43 |
| 38 | n | 616 | II0 | C42-C40 | 3.90 | 1.55 | 1.43 |
| 38 | k | 616 | II0 | C42-C40 | 3.90 | 1.55 | 1.43 |
| 32 | B | 847 | WVN | C23-C25 | 3.90 | 1.54 | 1.45 |
| 38 | n | 618 | II0 | C42-C40 | 3.90 | 1.55 | 1.43 |
| 32 | B | 849 | WVN | C30-C28 | 3.90 | 1.55 | 1.43 |
| 32 | L | 205 | WVN | C30-C28 | 3.90 | 1.55 | 1.43 |
| 38 | k | 620 | II0 | C42-C40 | 3.90 | 1.55 | 1.43 |
| 29 | b | 311 | CLA | C1D-ND | 3.90 | 1.42 | 1.37 |
| 32 | B | 847 | WVN | C30-C28 | 3.90 | 1.55 | 1.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | A | 847 | WVN | C23-C25 | 3.90 | 1.54 | 1.45 |
| 32 | A | 846 | WVN | C40-C37 | 3.90 | 1.55 | 1.43 |
| 38 | h | 309 | II0 | C42-C40 | 3.90 | 1.55 | 1.43 |
| 32 | I | 101 | WVN | C30-C28 | 3.89 | 1.55 | 1.43 |
| 29 | n | 610 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 38 | c | 313 | II0 | C34-C36 | 3.89 | 1.54 | 1.45 |
| 32 | A | 844 | WVN | C40-C37 | 3.89 | 1.55 | 1.43 |
| 38 | m | 614 | II0 | C42-C40 | 3.89 | 1.55 | 1.43 |
| 38 | f | 615 | II0 | C42-C40 | 3.89 | 1.55 | 1.43 |
| 29 | n | 608 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 38 | k | 620 | II0 | C33-C35 | 3.89 | 1.54 | 1.45 |
| 29 | k | 601 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 32 | A | 847 | WVN | C33-C34 | 3.89 | 1.54 | 1.45 |
| 40 | e | 309 | KC2 | C4B-NB | -3.89 | 1.33 | 1.37 |
| 38 | a | 313 | II0 | C42-C40 | 3.88 | 1.55 | 1.43 |
| 38 | b | 301 | II0 | C33-C35 | 3.88 | 1.54 | 1.45 |
| 38 | f | 616 | II0 | C33-C35 | 3.88 | 1.54 | 1.45 |
| 32 | A | 844 | WVN | C30-C28 | 3.88 | 1.55 | 1.43 |
| 38 | l | 313 | II0 | C41-C39 | 3.88 | 1.55 | 1.43 |
| 29 | h | 306 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 32 | s | 405 | WVN | C23-C25 | 3.88 | 1.54 | 1.45 |
| 32 | s | 407 | WVN | C40-C37 | 3.88 | 1.55 | 1.43 |
| 40 | i | 318 | KC2 | CHC-C1C | 3.88 | 1.48 | 1.39 |
| 38 | c | 313 | II0 | C33-C35 | 3.88 | 1.54 | 1.45 |
| 32 | A | 845 | WVN | C40-C37 | 3.88 | 1.55 | 1.43 |
| 38 | l | 315 | II0 | C34-C36 | 3.88 | 1.54 | 1.45 |
| 32 | L | 205 | WVN | C40-C37 | 3.88 | 1.55 | 1.43 |
| 29 | B | 835 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 38 | f | 618 | II0 | C33-C35 | 3.87 | 1.54 | 1.45 |
| 32 | B | 847 | WVN | C40-C37 | 3.87 | 1.55 | 1.43 |
| 38 | g | 317 | II0 | C34-C36 | 3.87 | 1.54 | 1.45 |
| 32 | L | 201 | WVN | C23-C25 | 3.87 | 1.54 | 1.45 |
| 32 | l | 302 | WVN | C30-C28 | 3.87 | 1.55 | 1.43 |
| 38 | n | 615 | II0 | C42-C40 | 3.87 | 1.55 | 1.43 |
| 38 | k | 619 | II0 | C42-C40 | 3.87 | 1.55 | 1.43 |
| 32 | B | 846 | WVN | C23-C25 | 3.87 | 1.54 | 1.45 |
| 38 | m | 616 | II0 | C41-C39 | 3.87 | 1.55 | 1.43 |
| 40 | c | 310 | KC2 | CHC-C1C | 3.87 | 1.48 | 1.39 |
| 38 | b | 315 | II0 | C42-C40 | 3.87 | 1.55 | 1.43 |
| 40 | d | 312 | KC2 | C3B-C4B | -3.87 | 1.39 | 1.46 |
| 32 | B | 849 | WVN | C31-C32 | 3.87 | 1.54 | 1.45 |
| 38 | j | 301 | II0 | C42-C40 | 3.87 | 1.55 | 1.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | d | 305 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 38 | f | 616 | II0 | C34-C36 | 3.86 | 1.54 | 1.45 |
| 38 | m | 616 | II0 | C34-C36 | 3.86 | 1.54 | 1.45 |
| 40 | c | 310 | KC2 | OBD-CAD | 3.86 | 1.27 | 1.22 |
| 38 | e | 312 | II0 | C42-C40 | 3.86 | 1.55 | 1.43 |
| 32 | L | 206 | WVN | C40-C37 | 3.86 | 1.55 | 1.43 |
| 29 | A | 836 | CLA | C1D-ND | 3.86 | 1.42 | 1.37 |
| 32 | i | 315 | WVN | C23-C25 | 3.86 | 1.54 | 1.45 |
| 29 | n | 613 | CLA | C1D-ND | 3.86 | 1.42 | 1.37 |
| 40 | m | 611 | KC2 | C1B-NB | -3.86 | 1.33 | 1.37 |
| 38 | f | 614 | II0 | C41-C39 | 3.86 | 1.55 | 1.43 |
| 38 | d | 315 | II0 | C42-C40 | 3.86 | 1.55 | 1.43 |
| 32 | A | 846 | WVN | C23-C25 | 3.86 | 1.54 | 1.45 |
| 38 | i | 319 | II0 | C33-C35 | 3.86 | 1.54 | 1.45 |
| 38 | e | 312 | II0 | C41-C39 | 3.86 | 1.55 | 1.43 |
| 38 | b | 314 | II0 | C33-C35 | 3.86 | 1.54 | 1.45 |
| 32 | M | 101 | WVN | C30-C28 | 3.86 | 1.55 | 1.43 |
| 38 | c | 313 | II0 | C41-C39 | 3.85 | 1.55 | 1.43 |
| 38 | l | 313 | II0 | C33-C35 | 3.85 | 1.54 | 1.45 |
| 32 | F | 204 | WVN | C40-C37 | 3.85 | 1.55 | 1.43 |
| 29 | f | 604 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 38 | e | 314 | II0 | C42-C40 | 3.85 | 1.55 | 1.43 |
| 29 | d | 303 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 32 | A | 844 | WVN | C33-C34 | 3.85 | 1.54 | 1.45 |
| 38 | m | 614 | II0 | C41-C39 | 3.85 | 1.55 | 1.43 |
| 38 | d | 316 | II0 | C41-C39 | 3.85 | 1.55 | 1.43 |
| 38 | f | 615 | II0 | C33-C35 | 3.85 | 1.54 | 1.45 |
| 40 | k | 611 | KC2 | CHC-C1C | 3.85 | 1.48 | 1.39 |
| 32 | i | 315 | WVN | C40-C37 | 3.85 | 1.55 | 1.43 |
| 32 | B | 848 | WVN | C33-C34 | 3.85 | 1.54 | 1.45 |
| 38 | g | 319 | II0 | C33-C35 | 3.85 | 1.54 | 1.45 |
| 32 | A | 845 | WVN | C23-C25 | 3.85 | 1.54 | 1.45 |
| 29 | e | 306 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 29 | e | 310 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 29 | f | 607 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 38 | e | 313 | II0 | C33-C35 | 3.84 | 1.54 | 1.45 |
| 32 | F | 205 | WVN | C40-C37 | 3.84 | 1.55 | 1.43 |
| 32 | s | 407 | WVN | C30-C28 | 3.84 | 1.55 | 1.43 |
| 38 | m | 615 | II0 | C42-C40 | 3.84 | 1.55 | 1.43 |
| 38 | j | 301 | II0 | C41-C39 | 3.84 | 1.55 | 1.43 |
| 32 | J | 101 | WVN | C23-C25 | 3.84 | 1.54 | 1.45 |
| 29 | m | 610 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | g | 303 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 29 | k | 605 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 29 | m | 601 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 40 | j | 312 | KC2 | C1B-NB | -3.84 | 1.33 | 1.37 |
| 38 | i | 313 | II0 | C34-C36 | 3.83 | 1.54 | 1.45 |
| 38 | b | 314 | II0 | C42-C40 | 3.83 | 1.55 | 1.43 |
| 38 | j | 316 | II0 | C41-C39 | 3.83 | 1.55 | 1.43 |
| 29 | m | 605 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |
| 38 | g | 317 | II0 | C41-C39 | 3.83 | 1.55 | 1.43 |
| 29 | c | 309 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |
| 40 | k | 612 | KC2 | C4A-C3A | -3.83 | 1.37 | 1.44 |
| 38 | h | 310 | II0 | C42-C40 | 3.83 | 1.55 | 1.43 |
| 40 | e | 309 | KC2 | C4D-ND | 3.83 | 1.38 | 1.35 |
| 38 | e | 312 | II0 | C34-C36 | 3.82 | 1.54 | 1.45 |
| 29 | b | 302 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 38 | J | 103 | II0 | C34-C36 | 3.82 | 1.54 | 1.45 |
| 38 | h | 311 | II0 | C42-C40 | 3.82 | 1.55 | 1.43 |
| 29 | e | 311 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 38 | n | 618 | II0 | C33-C35 | 3.82 | 1.54 | 1.45 |
| 29 | i | 302 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 38 | m | 614 | II0 | C33-C35 | 3.82 | 1.54 | 1.45 |
| 32 | A | 846 | WVN | C31-C32 | 3.82 | 1.54 | 1.45 |
| 38 | i | 319 | II0 | C41-C39 | 3.82 | 1.55 | 1.43 |
| 38 | h | 311 | II0 | C33-C35 | 3.82 | 1.54 | 1.45 |
| 29 | e | 307 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 29 | m | 607 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 32 | R | 201 | WVN | C40-C37 | 3.82 | 1.55 | 1.43 |
| 38 | f | 615 | II0 | C41-C39 | 3.82 | 1.55 | 1.43 |
| 38 | m | 614 | II0 | C34-C36 | 3.82 | 1.54 | 1.45 |
| 32 | A | 845 | WVN | C33-C34 | 3.82 | 1.54 | 1.45 |
| 32 | K | 103 | WVN | C40-C37 | 3.81 | 1.55 | 1.43 |
| 29 | j | 306 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 38 | e | 313 | II0 | C41-C39 | 3.81 | 1.55 | 1.43 |
| 38 | k | 615 | II0 | C41-C39 | 3.81 | 1.55 | 1.43 |
| 38 | a | 317 | II0 | C41-C39 | 3.81 | 1.55 | 1.43 |
| 38 | m | 615 | II0 | C41-C39 | 3.81 | 1.55 | 1.43 |
| 29 | h | 305 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 38 | d | 315 | II0 | C33-C35 | 3.81 | 1.54 | 1.45 |
| 38 | g | 319 | II0 | C34-C36 | 3.81 | 1.54 | 1.45 |
| 29 | b | 312 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 38 | i | 316 | II0 | C42-C40 | 3.81 | 1.55 | 1.43 |
| 29 | e | 305 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | k | 619 | II0 | C41-C39 | 3.81 | 1.55 | 1.43 |
| 29 | d | 306 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 38 | l | 315 | II0 | C42-C40 | 3.81 | 1.55 | 1.43 |
| 29 | i | 306 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 32 | A | 845 | WVN | C30-C28 | 3.80 | 1.55 | 1.43 |
| 29 | k | 609 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | c | 301 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 38 | J | 103 | II0 | C41-C39 | 3.80 | 1.55 | 1.43 |
| 29 | j | 302 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 32 | R | 201 | WVN | C30-C28 | 3.80 | 1.55 | 1.43 |
| 40 | i | 310 | KC2 | CHC-C1C | 3.80 | 1.47 | 1.39 |
| 29 | O | 206 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | A | 834 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | g | 312 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 38 | d | 317 | II0 | C41-C39 | 3.80 | 1.55 | 1.43 |
| 29 | j | 314 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 38 | h | 310 | II0 | C33-C35 | 3.80 | 1.54 | 1.45 |
| 38 | f | 618 | II0 | C41-C39 | 3.80 | 1.55 | 1.43 |
| 29 | A | 835 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 38 | g | 318 | II0 | C41-C39 | 3.79 | 1.55 | 1.43 |
| 32 | l | 302 | WVN | C40-C37 | 3.79 | 1.55 | 1.43 |
| 29 | B | 824 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | h | 307 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | e | 304 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | R | 203 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | d | 302 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 38 | i | 313 | II0 | C41-C39 | 3.79 | 1.55 | 1.43 |
| 32 | L | 206 | WVN | C30-C28 | 3.79 | 1.55 | 1.43 |
| 38 | l | 315 | II0 | C41-C39 | 3.79 | 1.55 | 1.43 |
| 29 | l | 301 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | l | 310 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 38 | e | 314 | II0 | C34-C36 | 3.79 | 1.54 | 1.45 |
| 29 | B | 832 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 38 | k | 620 | II0 | C34-C36 | 3.78 | 1.54 | 1.45 |
| 29 | A | 817 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 29 | e | 308 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 32 | F | 205 | WVN | C39-C36 | 3.78 | 1.55 | 1.43 |
| 32 | M | 101 | WVN | C23-C25 | 3.78 | 1.54 | 1.45 |
| 38 | a | 315 | II0 | C42-C40 | 3.78 | 1.55 | 1.43 |
| 38 | f | 616 | II0 | C41-C39 | 3.78 | 1.55 | 1.43 |
| 38 | a | 313 | II0 | C33-C35 | 3.78 | 1.54 | 1.45 |
| 38 | j | 315 | II0 | C34-C36 | 3.78 | 1.54 | 1.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | g | 323 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 32 | F | 207 | WVN | C33-C34 | 3.78 | 1.54 | 1.45 |
| 32 | B | 848 | WVN | C30-C28 | 3.78 | 1.55 | 1.43 |
| 29 | A | 837 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 38 | b | 301 | II0 | C41-C39 | 3.78 | 1.55 | 1.43 |
| 38 | k | 616 | II0 | C41-C39 | 3.77 | 1.55 | 1.43 |
| 29 | c | 307 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | j | 304 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | l | 312 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | a | 309 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 38 | n | 616 | II0 | C34-C36 | 3.77 | 1.54 | 1.45 |
| 29 | m | 604 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 40 | n | 611 | KC2 | CHC-C1C | 3.77 | 1.47 | 1.39 |
| 29 | B | 838 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 32 | h | 308 | WVN | C23-C25 | 3.77 | 1.54 | 1.45 |
| 29 | n | 601 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 38 | e | 314 | II0 | C41-C39 | 3.77 | 1.55 | 1.43 |
| 40 | g | 315 | KC2 | CHC-C1C | 3.77 | 1.47 | 1.39 |
| 38 | h | 310 | II0 | C34-C36 | 3.76 | 1.54 | 1.45 |
| 38 | i | 313 | II0 | C33-C35 | 3.76 | 1.54 | 1.45 |
| 29 | h | 301 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 32 | I | 101 | WVN | C23-C25 | 3.76 | 1.54 | 1.45 |
| 40 | k | 611 | KC2 | C4D-ND | 3.76 | 1.38 | 1.35 |
| 29 | e | 303 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | k | 604 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | b | 305 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 38 | f | 614 | II0 | C33-C35 | 3.76 | 1.54 | 1.45 |
| 29 | f | 601 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 38 | b | 315 | II0 | C41-C39 | 3.75 | 1.55 | 1.43 |
| 29 | A | 807 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 29 | k | 614 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 38 | k | 620 | II0 | C41-C39 | 3.75 | 1.55 | 1.43 |
| 38 | a | 315 | II0 | C34-C36 | 3.75 | 1.54 | 1.45 |
| 29 | s | 402 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 29 | d | 307 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 38 | n | 615 | II0 | C41-C39 | 3.75 | 1.55 | 1.43 |
| 32 | B | 848 | WVN | C40-C37 | 3.75 | 1.55 | 1.43 |
| 29 | F | 203 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 40 | k | 613 | KC2 | C4A-C3A | -3.75 | 1.37 | 1.44 |
| 38 | n | 616 | II0 | C41-C39 | 3.75 | 1.55 | 1.43 |
| 29 | A | 811 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 32 | B | 849 | WVN | C40-C37 | 3.75 | 1.55 | 1.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | g | 306 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 38 | d | 315 | II0 | C41-C39 | 3.75 | 1.55 | 1.43 |
| 29 | l | 306 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 38 | j | 315 | II0 | C33-C35 | 3.74 | 1.54 | 1.45 |
| 40 | d | 312 | KC2 | C1B-C2B | -3.74 | 1.37 | 1.45 |
| 29 | F | 202 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 38 | a | 315 | II0 | C41-C39 | 3.74 | 1.55 | 1.43 |
| 38 | j | 315 | II0 | C42-C40 | 3.74 | 1.55 | 1.43 |
| 29 | e | 301 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | l | 303 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | a | 304 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | j | 309 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 38 | a | 313 | II0 | C41-C39 | 3.74 | 1.55 | 1.43 |
| 38 | g | 319 | II0 | C41-C39 | 3.73 | 1.55 | 1.43 |
| 32 | M | 101 | WVN | C33-C34 | 3.73 | 1.54 | 1.45 |
| 29 | l | 308 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 38 | n | 618 | II0 | C41-C39 | 3.73 | 1.55 | 1.43 |
| 32 | R | 201 | WVN | C23-C25 | 3.73 | 1.54 | 1.45 |
| 38 | b | 301 | II0 | C34-C36 | 3.73 | 1.54 | 1.45 |
| 38 | j | 301 | II0 | C34-C36 | 3.73 | 1.54 | 1.45 |
| 29 | b | 309 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | k | 606 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 32 | h | 308 | WVN | C33-C34 | 3.73 | 1.54 | 1.45 |
| 38 | k | 615 | II0 | C33-C35 | 3.73 | 1.54 | 1.45 |
| 29 | A | 822 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | d | 313 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | n | 606 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 38 | a | 315 | II0 | C33-C35 | 3.73 | 1.54 | 1.45 |
| 29 | B | 815 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | f | 609 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 32 | l | 316 | WVN | C23-C25 | 3.73 | 1.53 | 1.45 |
| 32 | K | 103 | WVN | C30-C28 | 3.72 | 1.55 | 1.43 |
| 32 | B | 848 | WVN | C23-C25 | 3.72 | 1.53 | 1.45 |
| 40 | e | 309 | KC2 | CHC-C1C | 3.72 | 1.47 | 1.39 |
| 29 | B | 806 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 40 | g | 315 | KC2 | C1B-NB | -3.72 | 1.33 | 1.37 |
| 29 | A | 812 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 38 | i | 316 | II0 | C33-C35 | 3.72 | 1.53 | 1.45 |
| 29 | a | 305 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 40 | k | 611 | KC2 | C1B-NB | -3.72 | 1.33 | 1.37 |
| 38 | d | 301 | II0 | C34-C36 | 3.72 | 1.53 | 1.45 |
| 29 | j | 311 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | m | 618 | II0 | C41-C39 | 3.72 | 1.55 | 1.43 |
| 29 | j | 307 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 29 | B | 833 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | s | 406 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | k | 608 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 32 | e | 315 | WVN | C23-C25 | 3.71 | 1.53 | 1.45 |
| 29 | J | 102 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | f | 605 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | g | 305 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | B | 811 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | A | 851 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 40 | d | 311 | KC2 | C1B-NB | -3.71 | 1.33 | 1.37 |
| 29 | B | 812 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 40 | g | 315 | KC2 | C4B-NB | -3.71 | 1.33 | 1.37 |
| 29 | a | 311 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 38 | a | 313 | II0 | C34-C36 | 3.71 | 1.53 | 1.45 |
| 29 | L | 204 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | h | 303 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | g | 316 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 38 | l | 314 | II0 | C42-C40 | 3.71 | 1.54 | 1.43 |
| 29 | c | 303 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | j | 305 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 32 | F | 205 | WVN | C29-C26 | 3.70 | 1.54 | 1.43 |
| 29 | m | 609 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | i | 312 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | m | 608 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | d | 309 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | A | 814 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 38 | d | 301 | II0 | C42-C40 | 3.70 | 1.54 | 1.43 |
| 32 | F | 205 | WVN | C19-C22 | 3.70 | 1.53 | 1.45 |
| 29 | B | 810 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 32 | l | 302 | WVN | C23-C25 | 3.70 | 1.53 | 1.45 |
| 29 | L | 202 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | A | 840 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | f | 613 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 38 | b | 314 | II0 | C41-C39 | 3.69 | 1.54 | 1.43 |
| 29 | g | 308 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 40 | i | 310 | KC2 | C4B-NB | -3.69 | 1.33 | 1.37 |
| 38 | j | 315 | II0 | C41-C39 | 3.69 | 1.54 | 1.43 |
| 29 | c | 302 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | i | 308 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | A | 813 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | m | 606 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | B | 803 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | m | 613 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 38 | e | 312 | II0 | C33-C35 | 3.68 | 1.53 | 1.45 |
| 29 | k | 607 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | c | 312 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | A | 824 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | m | 603 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | f | 606 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | g | 307 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | A | 839 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 29 | B | 821 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 29 | O | 202 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 38 | i | 316 | II0 | C41-C39 | 3.67 | 1.54 | 1.43 |
| 29 | n | 604 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 29 | g | 309 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 38 | h | 310 | II0 | C41-C39 | 3.67 | 1.54 | 1.43 |
| 38 | n | 616 | II0 | C33-C35 | 3.67 | 1.53 | 1.45 |
| 40 | d | 311 | KC2 | CHC-C1C | 3.67 | 1.47 | 1.39 |
| 32 | B | 846 | WVN | C31-C32 | 3.67 | 1.53 | 1.45 |
| 29 | B | 829 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | n | 603 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | F | 201 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | a | 307 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | A | 821 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | A | 838 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | j | 310 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 40 | c | 310 | KC2 | C4B-NB | -3.66 | 1.33 | 1.37 |
| 32 | L | 206 | WVN | C23-C25 | 3.66 | 1.53 | 1.45 |
| 40 | l | 311 | KC2 | CHC-C1C | 3.66 | 1.47 | 1.39 |
| 29 | i | 311 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 32 | F | 205 | WVN | C33-C34 | 3.66 | 1.53 | 1.45 |
| 40 | k | 613 | KC2 | C1B-C2B | -3.65 | 1.38 | 1.45 |
| 29 | l | 305 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 40 | k | 612 | KC2 | C1B-C2B | -3.65 | 1.38 | 1.45 |
| 29 | A | 830 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | h | 302 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | g | 310 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | a | 302 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | B | 822 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 32 | K | 103 | WVN | C23-C25 | 3.65 | 1.53 | 1.45 |
| 29 | n | 607 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 806 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | B | 805 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | n | 605 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | B | 839 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | d | 308 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 32 | R | 201 | WVN | C33-C34 | 3.64 | 1.53 | 1.45 |
| 29 | B | 819 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 32 | K | 103 | WVN | C33-C34 | 3.64 | 1.53 | 1.45 |
| 29 | b | 306 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | i | 303 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 38 | h | 309 | II0 | C41-C39 | 3.63 | 1.54 | 1.43 |
| 29 | c | 308 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | B | 840 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | B | 837 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | b | 304 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | h | 304 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | h | 312 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 38 | d | 301 | II0 | C41-C39 | 3.62 | 1.54 | 1.43 |
| 32 | s | 407 | WVN | C23-C25 | 3.62 | 1.53 | 1.45 |
| 29 | g | 304 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 38 | h | 311 | II0 | C34-C36 | 3.62 | 1.53 | 1.45 |
| 40 | m | 611 | KC2 | CHC-C1C | 3.62 | 1.47 | 1.39 |
| 29 | b | 313 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 40 | s | 404 | KC2 | OBD-CAD | 3.62 | 1.27 | 1.22 |
| 38 | h | 311 | II0 | C41-C39 | 3.62 | 1.54 | 1.43 |
| 40 | l | 311 | KC2 | C4D-ND | 3.62 | 1.38 | 1.35 |
| 29 | c | 304 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 40 | d | 312 | KC2 | C4A-C3A | -3.61 | 1.37 | 1.44 |
| 29 | b | 307 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | l | 309 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | B | 807 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | L | 207 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | i | 304 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | m | 612 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | b | 310 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | B | 834 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | j | 308 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 40 | n | 612 | KC2 | C4A-C3A | -3.60 | 1.37 | 1.44 |
| 29 | f | 603 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | n | 602 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | a | 312 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | Q | 302 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 831 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | A | 826 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | B | 831 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | l | 304 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | A | 803 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | a | 303 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | j | 313 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | i | 307 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | B | 817 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | A | 832 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | O | 201 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | A | 805 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | B | 828 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | A | 815 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 40 | k | 611 | KC2 | C4B-NB | -3.58 | 1.33 | 1.37 |
| 29 | A | 819 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | a | 308 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | c | 306 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 38 | d | 301 | II0 | C33-C35 | 3.57 | 1.53 | 1.45 |
| 40 | n | 612 | KC2 | C1B-C2B | -3.57 | 1.38 | 1.45 |
| 29 | f | 610 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | n | 609 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 40 | s | 404 | KC2 | C4A-C3A | 3.57 | 1.51 | 1.44 |
| 29 | A | 809 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | B | 820 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 38 | h | 309 | II0 | C33-C35 | 3.56 | 1.53 | 1.45 |
| 29 | e | 302 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | B | 813 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | A | 829 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | A | 820 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 40 | l | 311 | KC2 | C1A-CHA | 3.54 | 1.50 | 1.40 |
| 29 | B | 808 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 29 | b | 303 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 32 | i | 315 | WVN | C20-C13 | 3.53 | 1.57 | 1.45 |
| 29 | A | 808 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 29 | A | 818 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 29 | f | 612 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 29 | k | 603 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 29 | A | 850 | CLA | C1D-ND | 3.52 | 1.42 | 1.37 |
| 29 | B | 809 | CLA | CMB-C2B | -3.51 | 1.44 | 1.51 |
| 29 | s | 403 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 29 | m | 602 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | B | 836 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 29 | A | 825 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 29 | c | 305 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 29 | A | 829 | CLA | CMB-C2B | -3.50 | 1.44 | 1.51 |
| 40 | e | 309 | KC2 | C1B-NB | -3.50 | 1.33 | 1.37 |
| 40 | g | 315 | KC2 | C4D-ND | 3.49 | 1.38 | 1.35 |
| 40 | s | 401 | KC2 | CHC-C1C | 3.49 | 1.47 | 1.39 |
| 29 | A | 810 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 29 | B | 814 | CLA | C1D-ND | 3.48 | 1.42 | 1.37 |
| 32 | R | 202 | WVN | C20-C13 | 3.48 | 1.57 | 1.45 |
| 40 | n | 612 | KC2 | C1C-C2C | -3.48 | 1.37 | 1.44 |
| 40 | i | 318 | KC2 | C4D-ND | 3.47 | 1.38 | 1.35 |
| 29 | B | 802 | CLA | C1D-ND | 3.47 | 1.42 | 1.37 |
| 29 | B | 842 | CLA | C1D-ND | 3.47 | 1.42 | 1.37 |
| 32 | A | 847 | WVN | C20-C13 | 3.47 | 1.57 | 1.45 |
| 40 | g | 314 | KC2 | C1A-CHA | 3.47 | 1.49 | 1.40 |
| 29 | a | 306 | CLA | C1D-ND | 3.46 | 1.42 | 1.37 |
| 40 | s | 404 | KC2 | C4B-NB | -3.46 | 1.33 | 1.37 |
| 29 | g | 302 | CLA | C4D-ND | -3.46 | 1.32 | 1.37 |
| 29 | B | 819 | CLA | CHC-C1C | 3.46 | 1.43 | 1.35 |
| 40 | g | 313 | KC2 | C4D-ND | 3.44 | 1.38 | 1.35 |
| 29 | A | 833 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 29 | B | 818 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 40 | s | 404 | KC2 | C1A-CHA | 3.43 | 1.49 | 1.40 |
| 29 | g | 302 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 40 | i | 318 | KC2 | C4B-NB | -3.43 | 1.33 | 1.37 |
| 29 | g | 311 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 40 | s | 404 | KC2 | CHC-C1C | 3.42 | 1.47 | 1.39 |
| 29 | b | 308 | CLA | C1D-ND | 3.42 | 1.42 | 1.37 |
| 29 | B | 823 | CLA | C1D-ND | 3.42 | 1.42 | 1.37 |
| 29 | B | 809 | CLA | C1D-ND | 3.41 | 1.42 | 1.37 |
| 29 | k | 602 | CLA | C1D-ND | 3.41 | 1.42 | 1.37 |
| 29 | A | 804 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 32 | s | 405 | WVN | C20-C13 | 3.40 | 1.57 | 1.45 |
| 38 | k | 615 | II0 | C20-C14 | 3.39 | 1.56 | 1.50 |
| 40 | k | 612 | KC2 | C1C-C2C | -3.39 | 1.38 | 1.44 |
| 29 | f | 602 | CLA | C1D-ND | 3.39 | 1.42 | 1.37 |
| 29 | a | 310 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 29 | A | 816 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 32 | e | 315 | WVN | C20-C13 | 3.38 | 1.57 | 1.45 |
| 29 | A | 850 | CLA | C4D-ND | -3.38 | 1.33 | 1.37 |
| 29 | f | 608 | CLA | CHC-C1C | 3.38 | 1.43 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | k | 613 | KC2 | C1C-C2C | -3.38 | 1.38 | 1.44 |
| 40 | f | 611 | KC2 | C4D-ND | 3.38 | 1.38 | 1.35 |
| 40 | m | 611 | KC2 | C4D-ND | 3.37 | 1.38 | 1.35 |
| 29 | B | 804 | CLA | C4D-ND | -3.37 | 1.33 | 1.37 |
| 40 | g | 315 | KC2 | C1A-CHA | 3.37 | 1.49 | 1.40 |
| 29 | j | 303 | CLA | C1D-ND | 3.36 | 1.41 | 1.37 |
| 29 | A | 803 | CLA | CHC-C1C | 3.36 | 1.43 | 1.35 |
| 29 | B | 827 | CLA | C1D-ND | 3.35 | 1.41 | 1.37 |
| 29 | A | 828 | CLA | C1D-ND | 3.35 | 1.41 | 1.37 |
| 40 | i | 310 | KC2 | C4D-ND | 3.35 | 1.38 | 1.35 |
| 40 | f | 611 | KC2 | CHC-C1C | 3.35 | 1.46 | 1.39 |
| 40 | k | 611 | KC2 | C1A-CHA | 3.35 | 1.49 | 1.40 |
| 29 | B | 821 | CLA | C4D-ND | -3.34 | 1.33 | 1.37 |
| 29 | K | 101 | CLA | C1D-ND | 3.33 | 1.41 | 1.37 |
| 40 | g | 314 | KC2 | CHC-C1C | 3.33 | 1.46 | 1.39 |
| 29 | B | 830 | CLA | C1D-ND | 3.33 | 1.41 | 1.37 |
| 29 | B | 841 | CLA | CHC-C1C | 3.32 | 1.43 | 1.35 |
| 29 | A | 819 | CLA | C4D-ND | -3.30 | 1.33 | 1.37 |
| 29 | A | 818 | CLA | C4D-ND | -3.30 | 1.33 | 1.37 |
| 29 | A | 825 | CLA | C4D-ND | -3.30 | 1.33 | 1.37 |
| 29 | k | 603 | CLA | CHC-C1C | 3.30 | 1.43 | 1.35 |
| 40 | i | 318 | KC2 | C1A-CHA | 3.30 | 1.49 | 1.40 |
| 40 | g | 313 | KC2 | CHC-C1C | 3.30 | 1.46 | 1.39 |
| 32 | h | 308 | WVN | C20-C13 | 3.29 | 1.56 | 1.45 |
| 29 | B | 842 | CLA | CHC-C1C | 3.29 | 1.43 | 1.35 |
| 29 | A | 838 | CLA | C4D-ND | -3.29 | 1.33 | 1.37 |
| 40 | s | 401 | KC2 | C1A-CHA | 3.29 | 1.49 | 1.40 |
| 29 | A | 813 | CLA | CHC-C1C | 3.28 | 1.43 | 1.35 |
| 40 | j | 312 | KC2 | CHC-C1C | 3.28 | 1.46 | 1.39 |
| 29 | A | 817 | CLA | C4D-ND | -3.27 | 1.33 | 1.37 |
| 29 | b | 311 | CLA | C4D-ND | -3.27 | 1.33 | 1.37 |
| 32 | A | 844 | WVN | C20-C13 | 3.27 | 1.56 | 1.45 |
| 32 | A | 854 | WVN | C19-C11 | 3.27 | 1.40 | 1.32 |
| 29 | a | 310 | CLA | C4D-ND | -3.27 | 1.33 | 1.37 |
| 40 | d | 312 | KC2 | C1C-C2C | -3.26 | 1.38 | 1.44 |
| 29 | B | 841 | CLA | C4D-ND | -3.26 | 1.33 | 1.37 |
| 29 | B | 801 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 29 | L | 203 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 29 | A | 825 | CLA | CHC-C1C | 3.26 | 1.43 | 1.35 |
| 29 | A | 834 | CLA | C4D-ND | -3.25 | 1.33 | 1.37 |
| 29 | B | 828 | CLA | C4D-ND | -3.25 | 1.33 | 1.37 |
| 40 | j | 312 | KC2 | C4D-ND | 3.25 | 1.38 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | B | 842 | CLA | C4D-ND | -3.25 | 1.33 | 1.37 |
| 29 | A | 829 | CLA | C4D-ND | -3.24 | 1.33 | 1.37 |
| 29 | j | 309 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 29 | B | 818 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 29 | B | 833 | CLA | C4D-ND | -3.23 | 1.33 | 1.37 |
| 29 | A | 802 | CLA | CHC-C1C | 3.23 | 1.43 | 1.35 |
| 32 | B | 846 | WVN | C20-C13 | 3.23 | 1.56 | 1.45 |
| 30 | B | 843 | PQN | C10-C1 | -3.23 | 1.42 | 1.48 |
| 29 | B | 833 | CLA | CHC-C1C | 3.22 | 1.43 | 1.35 |
| 29 | g | 316 | CLA | CHC-C1C | 3.22 | 1.43 | 1.35 |
| 29 | B | 841 | CLA | C1D-ND | 3.22 | 1.41 | 1.37 |
| 29 | c | 307 | CLA | CHC-C1C | 3.22 | 1.43 | 1.35 |
| 29 | B | 819 | CLA | C4D-ND | -3.22 | 1.33 | 1.37 |
| 30 | B | 843 | PQN | C3-C4 | -3.21 | 1.39 | 1.47 |
| 40 | e | 309 | KC2 | C1A-CHA | 3.21 | 1.49 | 1.40 |
| 29 | f | 604 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |
| 29 | B | 806 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |
| 29 | A | 830 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |
| 29 | A | 827 | CLA | CHC-C1C | 3.20 | 1.43 | 1.35 |
| 29 | F | 202 | CLA | C4D-ND | -3.20 | 1.33 | 1.37 |
| 29 | j | 306 | CLA | CHC-C1C | 3.20 | 1.43 | 1.35 |
| 40 | c | 310 | KC2 | C4D-ND | 3.20 | 1.38 | 1.35 |
| 29 | A | 821 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 29 | a | 303 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 29 | g | 323 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 29 | s | 403 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 29 | j | 310 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 29 | B | 801 | CLA | CMB-C2B | -3.19 | 1.45 | 1.51 |
| 29 | B | 840 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 40 | d | 311 | KC2 | C4D-ND | 3.19 | 1.38 | 1.35 |
| 29 | a | 305 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 29 | g | 305 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | b | 308 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | j | 308 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | B | 831 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | h | 312 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | B | 827 | CLA | CMB-C2B | -3.18 | 1.45 | 1.51 |
| 40 | n | 611 | KC2 | C1A-CHA | 3.18 | 1.49 | 1.40 |
| 29 | s | 406 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | h | 302 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | B | 804 | CLA | C1D-ND | 3.17 | 1.41 | 1.37 |
| 29 | B | 804 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | n | 606 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | j | 303 | CLA | C4D-ND | -3.17 | 1.33 | 1.37 |
| 40 | f | 611 | KC2 | C1A-CHA | 3.17 | 1.49 | 1.40 |
| 29 | c | 303 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | B | 835 | CLA | C4D-ND | -3.16 | 1.33 | 1.37 |
| 29 | b | 304 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | K | 101 | CLA | C4D-ND | -3.16 | 1.33 | 1.37 |
| 29 | B | 821 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | i | 307 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | g | 311 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | i | 305 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | B | 826 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 29 | b | 310 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | A | 810 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | L | 204 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | B | 802 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | f | 605 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | A | 802 | CLA | C1D-ND | 3.15 | 1.41 | 1.37 |
| 29 | B | 817 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | B | 836 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | i | 311 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | j | 307 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | A | 817 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | n | 602 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | a | 311 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | A | 811 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | B | 816 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | k | 606 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | i | 305 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | g | 302 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | b | 305 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | i | 312 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | a | 305 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | L | 207 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | j | 313 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | f | 606 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | F | 201 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | m | 605 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | k | 608 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 40 | l | 311 | KC2 | C4A-C3A | 3.14 | 1.50 | 1.44 |
| 29 | g | 304 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | B | 807 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | e | 311 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | n | 604 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | f | 602 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 29 | m | 608 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | h | 303 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | g | 307 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | R | 203 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 32 | L | 206 | WVN | C19-C11 | 3.13 | 1.39 | 1.32 |
| 29 | b | 307 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | j | 305 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | B | 838 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | A | 839 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | l | 308 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | B | 809 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | l | 304 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | b | 307 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | B | 832 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 40 | m | 611 | KC2 | C1A-CHA | 3.12 | 1.48 | 1.40 |
| 29 | a | 312 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | J | 102 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | A | 834 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | h | 304 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | b | 308 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | l | 310 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | g | 306 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | n | 607 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | l | 306 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | Q | 302 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | B | 834 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | d | 305 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | e | 306 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | e | 307 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | B | 811 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | s | 402 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | i | 303 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | A | 832 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | n | 609 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | d | 308 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | A | 833 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | l | 312 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | n | 609 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | m | 602 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 807 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | A | 806 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | A | 808 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | s | 406 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | c | 302 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | L | 204 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | B | 815 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | m | 606 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | c | 309 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | L | 203 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | j | 311 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | b | 312 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | h | 312 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | m | 602 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | B | 812 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | i | 306 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | B | 826 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | L | 203 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | A | 820 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | e | 305 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | A | 835 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | F | 203 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | n | 605 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 40 | j | 312 | KC2 | C1A-CHA | 3.09 | 1.48 | 1.40 |
| 29 | A | 807 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | j | 314 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | n | 601 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | c | 308 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | A | 826 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | B | 829 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | g | 312 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | n | 603 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | B | 818 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | f | 609 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | B | 825 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | g | 310 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | c | 304 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | a | 311 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | B | 822 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | B | 817 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | B | 836 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | B | 831 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | e | 308 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | B | 813 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | L | 207 | CLA | C4D-ND | -3.08 | 1.33 | 1.37 |
| 30 | A | 841 | PQN | C3-C4 | -3.08 | 1.39 | 1.47 |
| 29 | g | 303 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | B | 828 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | i | 309 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | e | 301 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | A | 850 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | h | 301 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | F | 202 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | b | 306 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | n | 613 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | n | 608 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | a | 309 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | k | 601 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 40 | g | 313 | KC2 | C1A-CHA | 3.07 | 1.48 | 1.40 |
| 29 | A | 824 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | B | 822 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | R | 203 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 32 | F | 205 | WVN | C31-C32 | 3.07 | 1.52 | 1.45 |
| 29 | m | 604 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | h | 302 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | k | 602 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 40 | i | 310 | KC2 | C1A-CHA | 3.07 | 1.48 | 1.40 |
| 29 | f | 603 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | j | 303 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | O | 202 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | k | 602 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | g | 307 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | e | 302 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | A | 805 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | k | 605 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | f | 607 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | g | 323 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | k | 604 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | d | 303 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | j | 305 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | c | 305 | CLA | CMB-C2B | -3.06 | 1.45 | 1.51 |
| 29 | A | 821 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | A | 835 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | A | 804 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 805 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | a | 310 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | c | 302 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 32 | F | 205 | WVN | C23-C25 | 3.06 | 1.52 | 1.45 |
| 29 | e | 303 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | A | 822 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | B | 801 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 29 | a | 303 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | A | 819 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | a | 312 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | m | 612 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | B | 829 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 29 | d | 302 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | h | 307 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | d | 307 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | A | 810 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | K | 101 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | b | 305 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | g | 305 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | A | 820 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | h | 306 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | B | 823 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | f | 613 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | m | 607 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 32 | l | 302 | WVN | C20-C13 | 3.04 | 1.55 | 1.45 |
| 29 | n | 602 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 40 | s | 404 | KC2 | C4D-ND | 3.04 | 1.37 | 1.35 |
| 32 | B | 847 | WVN | C20-C13 | 3.04 | 1.55 | 1.45 |
| 29 | l | 303 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 32 | A | 854 | WVN | C20-C13 | 3.04 | 1.55 | 1.45 |
| 29 | B | 824 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | a | 302 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | A | 823 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | g | 309 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | k | 614 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | A | 804 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | A | 815 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | h | 301 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | A | 828 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | l | 308 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | h | 305 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | B | 826 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | h | 303 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | n | 610 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | F | 201 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | c | 308 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | m | 603 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | e | 307 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | m | 608 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | A | 812 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | k | 609 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | A | 833 | CLA | CMB-C2B | -3.03 | 1.45 | 1.51 |
| 29 | B | 810 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | d | 309 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | g | 308 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | B | 827 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | B | 806 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | f | 610 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | d | 309 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 32 | B | 849 | WVN | C20-C13 | 3.02 | 1.55 | 1.45 |
| 29 | l | 307 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | c | 306 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | f | 612 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | A | 838 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | O | 201 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | B | 811 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | B | 839 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | f | 601 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | c | 307 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | B | 824 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | A | 811 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | f | 612 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | A | 839 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | A | 809 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 32 | F | 207 | WVN | C20-C13 | 3.01 | 1.55 | 1.45 |
| 29 | b | 303 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 33 | i | 301 | LMU | C6'-C5' | -3.01 | 1.41 | 1.51 |
| 29 | A | 826 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | b | 309 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | d | 304 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | a | 306 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | A | 831 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | b | 303 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | d | 318 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | m | 613 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | m | 610 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | l | 309 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | c | 305 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | d | 310 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 29 | O | 206 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 29 | j | 310 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | A | 828 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | l | 305 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 29 | d | 306 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 29 | B | 832 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | B | 830 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | g | 308 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | n | 604 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | B | 839 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | l | 312 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | B | 808 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | c | 312 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | m | 604 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | B | 840 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 29 | B | 802 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | b | 309 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | d | 313 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | a | 309 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | A | 836 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | s | 403 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | F | 203 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | A | 814 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 40 | c | 310 | KC2 | C1A-CHA | 2.99 | 1.48 | 1.40 |
| 29 | n | 607 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 40 | i | 318 | KC2 | C1B-NB | -2.99 | 1.34 | 1.37 |
| 29 | j | 304 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | L | 202 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | k | 604 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 32 | A | 845 | WVN | C20-C13 | 2.99 | 1.55 | 1.45 |
| 29 | B | 813 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | c | 309 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | m | 609 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | j | 311 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | A | 851 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | O | 202 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | j | 309 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | d | 310 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | g | 316 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | B | 834 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | e | 310 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | k | 610 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | h | 305 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | e | 304 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | e | 302 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | A | 814 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | B | 803 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | k | 607 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | a | 308 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | a | 307 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | l | 310 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | A | 818 | CLA | CMB-C2B | -2.98 | 1.45 | 1.51 |
| 29 | A | 840 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | f | 602 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | i | 308 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | m | 609 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 38 | n | 618 | II0 | C20-C14 | 2.98 | 1.55 | 1.50 |
| 29 | g | 312 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | f | 609 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | B | 805 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | l | 301 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | e | 310 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | m | 612 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | k | 614 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | O | 206 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | g | 304 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | A | 832 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | f | 603 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | A | 809 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | j | 314 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | h | 304 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | i | 312 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | c | 304 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | A | 837 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | a | 302 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | A | 815 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | j | 313 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | B | 805 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 40 | g | 314 | KC2 | C4A-C3A | 2.96 | 1.50 | 1.44 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | B | 848 | WVN | C20-C13 | 2.96 | 1.55 | 1.45 |
| 29 | a | 304 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 29 | B | 835 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 29 | A | 812 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | f | 604 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 29 | i | 308 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 33 | A | 849 | LMU | C6'-C5' | -2.96 | 1.41 | 1.51 |
| 35 | A | 853 | SQD | O48-C23 | 2.96 | 1.42 | 1.33 |
| 29 | B | 825 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | m | 601 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 29 | c | 306 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | O | 201 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | B | 814 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | g | 311 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | B | 830 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | m | 607 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | e | 308 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | i | 303 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | d | 313 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | b | 313 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | B | 810 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | n | 613 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | L | 202 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | A | 816 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | a | 306 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | j | 304 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | A | 806 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 32 | M | 101 | WVN | C20-C13 | 2.95 | 1.55 | 1.45 |
| 29 | B | 823 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | B | 820 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 29 | l | 309 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | f | 606 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | f | 610 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | k | 603 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | c | 305 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 29 | A | 802 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | a | 308 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | B | 837 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | m | 610 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 32 | l | 316 | WVN | C20-C13 | 2.94 | 1.55 | 1.45 |
| 29 | l | 304 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 29 | i | 307 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | B | 812 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 29 | A | 837 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 32 | R | 201 | WVN | C20-C13 | 2.94 | 1.55 | 1.45 |
| 29 | h | 307 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | f | 605 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | j | 302 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 30 | B | 843 | PQN | C5-C4 | -2.93 | 1.42 | 1.48 |
| 29 | A | 816 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 29 | A | 831 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 29 | B | 801 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 36 | j | 319 | DGD | C3D-C2D | 2.93 | 1.59 | 1.52 |
| 29 | A | 830 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 29 | k | 609 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | d | 302 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | b | 302 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 32 | L | 201 | WVN | C20-C13 | 2.93 | 1.55 | 1.45 |
| 29 | c | 301 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | d | 304 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | g | 310 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | A | 818 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 29 | m | 606 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 32 | I | 101 | WVN | C20-C13 | 2.92 | 1.55 | 1.45 |
| 29 | h | 306 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 29 | A | 808 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 32 | i | 315 | WVN | C19-C11 | 2.92 | 1.39 | 1.32 |
| 29 | A | 836 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 29 | A | 803 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 29 | B | 838 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | J | 102 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | l | 306 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | B | 808 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 29 | f | 613 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | A | 813 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | g | 309 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 38 | d | 316 | II0 | C20-C14 | 2.91 | 1.55 | 1.50 |
| 40 | k | 612 | KC2 | C3C-C4C | -2.91 | 1.39 | 1.44 |
| 29 | k | 608 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | A | 851 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | k | 607 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 40 | d | 312 | KC2 | C3C-C4C | -2.90 | 1.39 | 1.44 |
| 29 | f | 607 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 29 | A | 824 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | m | 601 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | b | 304 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | b | 311 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 29 | j | 302 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | b | 306 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 29 | l | 303 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 40 | n | 612 | KC2 | C3C-C4C | -2.90 | 1.39 | 1.44 |
| 29 | g | 303 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | a | 307 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 29 | c | 303 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 29 | b | 302 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 29 | e | 304 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 29 | j | 306 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 40 | s | 401 | KC2 | C4D-ND | 2.89 | 1.37 | 1.35 |
| 29 | e | 305 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 32 | J | 101 | WVN | C20-C13 | 2.89 | 1.55 | 1.45 |
| 29 | i | 304 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 29 | n | 610 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | A | 823 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 32 | A | 846 | WVN | C20-C13 | 2.88 | 1.55 | 1.45 |
| 29 | c | 311 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 29 | d | 308 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | s | 402 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | c | 311 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | c | 312 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 40 | n | 611 | KC2 | CHB-C4A | -2.88 | 1.32 | 1.39 |
| 29 | m | 605 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 32 | F | 207 | WVN | C21-C15 | 2.88 | 1.55 | 1.50 |
| 40 | n | 611 | KC2 | C4D-ND | 2.87 | 1.37 | 1.35 |
| 32 | L | 205 | WVN | C20-C13 | 2.87 | 1.55 | 1.45 |
| 32 | s | 407 | WVN | C20-C13 | 2.87 | 1.55 | 1.45 |
| 40 | d | 311 | KC2 | C1A-CHA | 2.87 | 1.48 | 1.40 |
| 40 | k | 613 | KC2 | C3C-C4C | -2.87 | 1.39 | 1.44 |
| 40 | i | 318 | KC2 | C4A-C3A | 2.87 | 1.50 | 1.44 |
| 32 | K | 103 | WVN | C20-C13 | 2.87 | 1.55 | 1.45 |
| 40 | g | 314 | KC2 | C3C-C4C | 2.87 | 1.50 | 1.44 |
| 29 | m | 613 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 29 | g | 306 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 29 | A | 822 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 29 | i | 309 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 32 | F | 204 | WVN | C20-C13 | 2.86 | 1.55 | 1.45 |
| 29 | B | 816 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | j | 307 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 29 | n | 605 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 32 | e | 315 | WVN | C19-C11 | 2.86 | 1.39 | 1.32 |
| 32 | i | 315 | WVN | C21-C15 | 2.85 | 1.55 | 1.50 |
| 29 | m | 603 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 29 | i | 302 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 29 | i | 306 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 29 | f | 601 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 29 | c | 301 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 29 | B | 803 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 29 | d | 303 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 29 | Q | 302 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 29 | i | 311 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 29 | A | 840 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 29 | n | 601 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 29 | n | 606 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 29 | l | 307 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 38 | k | 615 | II0 | C12-C14 | 2.84 | 1.55 | 1.51 |
| 29 | B | 827 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 29 | i | 302 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 29 | k | 601 | CLA | C4D-ND | -2.83 | 1.33 | 1.37 |
| 29 | k | 610 | CLA | C4D-ND | -2.83 | 1.33 | 1.37 |
| 29 | B | 827 | CLA | CMD-C2D | -2.83 | 1.44 | 1.50 |
| 28 | A | 801 | CL0 | MG-ND | -2.83 | 2.00 | 2.05 |
| 29 | l | 301 | CLA | CHC-C1C | 2.82 | 1.42 | 1.35 |
| 29 | e | 301 | CLA | C4D-ND | -2.82 | 1.33 | 1.37 |
| 30 | A | 841 | PQN | C3-C2 | 2.82 | 1.40 | 1.35 |
| 35 | A | 853 | SQD | O47-C7 | 2.81 | 1.42 | 1.34 |
| 32 | A | 844 | WVN | C21-C15 | 2.81 | 1.55 | 1.50 |
| 29 | k | 606 | CLA | C4D-ND | -2.81 | 1.33 | 1.37 |
| 29 | e | 306 | CLA | C4D-ND | -2.81 | 1.33 | 1.37 |
| 29 | g | 306 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 29 | B | 807 | CLA | CHC-C1C | 2.80 | 1.42 | 1.35 |
| 30 | B | 843 | PQN | C3-C2 | 2.80 | 1.40 | 1.35 |
| 29 | B | 815 | CLA | C4D-ND | -2.80 | 1.33 | 1.37 |
| 29 | n | 608 | CLA | C4D-ND | -2.80 | 1.33 | 1.37 |
| 29 | B | 818 | CLA | CMB-C2B | -2.80 | 1.45 | 1.51 |
| 29 | i | 304 | CLA | C4D-ND | -2.80 | 1.33 | 1.37 |
| 32 | L | 206 | WVN | C20-C13 | 2.80 | 1.55 | 1.45 |
| 32 | B | 847 | WVN | C21-C15 | 2.80 | 1.55 | 1.50 |
| 32 | B | 849 | WVN | C21-C15 | 2.80 | 1.55 | 1.50 |
| 29 | l | 305 | CLA | C4D-ND | -2.79 | 1.33 | 1.37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | b | 312 | CLA | CHC-C1C | 2.79 | 1.42 | 1.35 |
| 29 | b | 313 | CLA | C4D-ND | -2.79 | 1.33 | 1.37 |
| 40 | i | 310 | KC2 | CHB-C4A | -2.79 | 1.32 | 1.39 |
| 32 | s | 405 | WVN | C21-C15 | 2.78 | 1.55 | 1.50 |
| 29 | d | 305 | CLA | C4D-ND | -2.78 | 1.33 | 1.37 |
| 29 | c | 306 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 30 | A | 841 | PQN | C10-C1 | -2.77 | 1.42 | 1.48 |
| 32 | h | 308 | WVN | C21-C15 | 2.77 | 1.55 | 1.50 |
| 32 | M | 101 | WVN | C21-C15 | 2.77 | 1.55 | 1.50 |
| 32 | A | 854 | WVN | C16-C05 | 2.77 | 1.55 | 1.50 |
| 29 | B | 814 | CLA | CHC-C1C | 2.76 | 1.42 | 1.35 |
| 32 | l | 302 | WVN | C21-C15 | 2.76 | 1.55 | 1.50 |
| 38 | n | 618 | II0 | C19-C13 | 2.76 | 1.55 | 1.50 |
| 38 | d | 316 | II0 | C12-C14 | 2.75 | 1.55 | 1.51 |
| 29 | n | 603 | CLA | C4D-ND | -2.74 | 1.33 | 1.37 |
| 32 | L | 201 | WVN | C21-C15 | 2.74 | 1.55 | 1.50 |
| 38 | d | 301 | II0 | C20-C14 | 2.74 | 1.55 | 1.50 |
| 29 | A | 833 | CLA | CHC-C1C | 2.74 | 1.42 | 1.35 |
| 29 | b | 310 | CLA | C4D-ND | -2.74 | 1.33 | 1.37 |
| 29 | a | 304 | CLA | C4D-ND | -2.73 | 1.33 | 1.37 |
| 29 | k | 605 | CLA | C4D-ND | -2.73 | 1.33 | 1.37 |
| 29 | e | 311 | CLA | C4D-ND | -2.73 | 1.33 | 1.37 |
| 29 | e | 303 | CLA | C4D-ND | -2.73 | 1.33 | 1.37 |
| 38 | l | 315 | II0 | C11-C13 | 2.73 | 1.55 | 1.51 |
| 38 | d | 301 | II0 | C12-C14 | 2.73 | 1.55 | 1.51 |
| 32 | A | 847 | WVN | C21-C15 | 2.73 | 1.55 | 1.50 |
| 40 | e | 309 | KC2 | C4A-C3A | 2.73 | 1.49 | 1.44 |
| 29 | A | 827 | CLA | C4D-ND | -2.73 | 1.33 | 1.37 |
| 29 | A | 830 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 29 | K | 102 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 29 | j | 308 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 29 | d | 318 | CLA | C4D-ND | -2.72 | 1.34 | 1.37 |
| 40 | g | 315 | KC2 | C4A-C3A | 2.72 | 1.49 | 1.44 |
| 40 | d | 311 | KC2 | C4A-C3A | 2.71 | 1.49 | 1.44 |
| 29 | A | 820 | CLA | CMB-C2B | -2.71 | 1.46 | 1.51 |
| 38 | d | 315 | II0 | C20-C14 | 2.71 | 1.55 | 1.50 |
| 38 | n | 618 | II0 | C12-C14 | 2.70 | 1.55 | 1.51 |
| 29 | B | 809 | CLA | CHC-C1C | 2.70 | 1.41 | 1.35 |
| 29 | A | 850 | CLA | CMB-C2B | -2.68 | 1.46 | 1.51 |
| 29 | B | 804 | CLA | CMC-C2C | -2.68 | 1.45 | 1.50 |
| 29 | B | 812 | CLA | CMB-C2B | -2.68 | 1.46 | 1.51 |
| 29 | A | 829 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | L | 205 | WVN | C19-C11 | 2.68 | 1.38 | 1.32 |
| 29 | B | 820 | CLA | C4D-ND | -2.68 | 1.34 | 1.37 |
| 32 | R | 202 | WVN | C19-C11 | 2.67 | 1.38 | 1.32 |
| 30 | A | 841 | PQN | C5-C4 | -2.67 | 1.43 | 1.48 |
| 32 | B | 846 | WVN | C21-C15 | 2.67 | 1.55 | 1.50 |
| 38 | i | 316 | II0 | C20-C14 | 2.67 | 1.55 | 1.50 |
| 38 | g | 317 | II0 | C12-C14 | 2.67 | 1.55 | 1.51 |
| 38 | n | 618 | II0 | C11-C13 | 2.67 | 1.55 | 1.51 |
| 29 | B | 837 | CLA | CHC-C1C | 2.67 | 1.41 | 1.35 |
| 29 | A | 833 | CLA | C3B-C2B | -2.67 | 1.36 | 1.40 |
| 40 | s | 404 | KC2 | CHB-C4A | -2.67 | 1.33 | 1.39 |
| 29 | d | 306 | CLA | C4D-ND | -2.67 | 1.34 | 1.37 |
| 40 | c | 310 | KC2 | CHB-C4A | -2.67 | 1.33 | 1.39 |
| 40 | l | 311 | KC2 | C2A-C1A | 2.66 | 1.52 | 1.44 |
| 38 | e | 314 | II0 | C19-C13 | 2.66 | 1.55 | 1.50 |
| 38 | l | 315 | II0 | C20-C14 | 2.66 | 1.55 | 1.50 |
| 29 | O | 201 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 32 | A | 846 | WVN | C16-C05 | 2.65 | 1.55 | 1.50 |
| 29 | A | 806 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 29 | L | 202 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 32 | R | 202 | WVN | C16-C05 | 2.65 | 1.55 | 1.50 |
| 40 | n | 611 | KC2 | C4A-C3A | 2.64 | 1.49 | 1.44 |
| 38 | d | 315 | II0 | C19-C13 | 2.64 | 1.55 | 1.50 |
| 29 | K | 102 | CLA | C4D-ND | -2.64 | 1.34 | 1.37 |
| 29 | B | 830 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 29 | s | 402 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 32 | R | 202 | WVN | C21-C15 | 2.64 | 1.55 | 1.50 |
| 40 | m | 611 | KC2 | CHB-C4A | -2.64 | 1.33 | 1.39 |
| 38 | d | 316 | II0 | C19-C13 | 2.64 | 1.55 | 1.50 |
| 38 | n | 616 | II0 | C12-C14 | 2.64 | 1.55 | 1.51 |
| 29 | B | 817 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 29 | d | 306 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 32 | A | 845 | WVN | C16-C05 | 2.64 | 1.55 | 1.50 |
| 38 | e | 312 | II0 | C19-C13 | 2.63 | 1.55 | 1.50 |
| 29 | B | 837 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 29 | a | 308 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 38 | m | 615 | II0 | C19-C13 | 2.63 | 1.55 | 1.50 |
| 32 | i | 315 | WVN | C16-C05 | 2.63 | 1.55 | 1.50 |
| 38 | n | 616 | II0 | C20-C14 | 2.62 | 1.55 | 1.50 |
| 29 | B | 836 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 40 | n | 612 | KC2 | CHD-C4C | 2.62 | 1.41 | 1.35 |
| 40 | g | 315 | KC2 | CHB-C4A | -2.62 | 1.33 | 1.39 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | F | 204 | WVN | C19-C11 | 2.62 | 1.38 | 1.32 |
| 29 | k | 609 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 32 | F | 205 | WVN | C02-C11 | 2.62 | 1.54 | 1.50 |
| 32 | F | 205 | WVN | C20-C13 | 2.62 | 1.54 | 1.45 |
| 32 | K | 103 | WVN | C21-C15 | 2.62 | 1.55 | 1.50 |
| 38 | e | 314 | II0 | C20-C14 | 2.62 | 1.55 | 1.50 |
| 29 | A | 838 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 38 | f | 618 | II0 | C20-C14 | 2.62 | 1.55 | 1.50 |
| 38 | i | 314 | II0 | C19-C13 | 2.62 | 1.55 | 1.50 |
| 40 | g | 314 | KC2 | C2A-C1A | 2.62 | 1.52 | 1.44 |
| 32 | s | 407 | WVN | C19-C11 | 2.62 | 1.38 | 1.32 |
| 38 | d | 317 | II0 | C20-C14 | 2.62 | 1.55 | 1.50 |
| 40 | i | 310 | KC2 | C4A-C3A | 2.62 | 1.49 | 1.44 |
| 38 | j | 316 | II0 | C20-C14 | 2.61 | 1.55 | 1.50 |
| 29 | h | 312 | CLA | CMB-C2B | -2.61 | 1.46 | 1.51 |
| 38 | n | 615 | II0 | C19-C13 | 2.61 | 1.55 | 1.50 |
| 29 | B | 816 | CLA | CMB-C2B | -2.61 | 1.46 | 1.51 |
| 40 | j | 312 | KC2 | C4A-C3A | 2.61 | 1.49 | 1.44 |
| 38 | h | 311 | II0 | C19-C13 | 2.61 | 1.55 | 1.50 |
| 29 | f | 608 | CLA | C4D-ND | -2.61 | 1.34 | 1.37 |
| 32 | s | 407 | WVN | C16-C05 | 2.61 | 1.55 | 1.50 |
| 29 | b | 311 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 29 | B | 814 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 38 | c | 313 | II0 | C12-C14 | 2.60 | 1.55 | 1.51 |
| 29 | A | 823 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 40 | d | 311 | KC2 | CHB-C4A | -2.60 | 1.33 | 1.39 |
| 29 | B | 832 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 38 | m | 615 | II0 | C20-C14 | 2.59 | 1.55 | 1.50 |
| 29 | m | 606 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 29 | g | 304 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 29 | A | 802 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 29 | B | 828 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 40 | s | 401 | KC2 | CHB-C4A | -2.59 | 1.33 | 1.39 |
| 32 | A | 845 | WVN | C19-C11 | 2.58 | 1.38 | 1.32 |
| 29 | B | 826 | CLA | CMD-C2D | -2.58 | 1.45 | 1.50 |
| 29 | f | 604 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 29 | f | 607 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 29 | c | 304 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 32 | A | 846 | WVN | C21-C15 | 2.58 | 1.55 | 1.50 |
| 40 | s | 404 | KC2 | C3D-C4D | -2.58 | 1.37 | 1.40 |
| 32 | L | 206 | WVN | C21-C15 | 2.58 | 1.55 | 1.50 |
| 29 | A | 808 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | k | 611 | KC2 | C4A-C3A | 2.57 | 1.49 | 1.44 |
| 29 | B | 822 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 38 | m | 614 | II0 | C12-C14 | 2.57 | 1.55 | 1.51 |
| 32 | J | 101 | WVN | C19-C11 | 2.57 | 1.38 | 1.32 |
| 29 | i | 307 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 32 | M | 101 | WVN | C16-C05 | 2.56 | 1.55 | 1.50 |
| 32 | l | 316 | WVN | C19-C11 | 2.56 | 1.38 | 1.32 |
| 33 | i | 301 | LMU | C6B-C5B | -2.56 | 1.43 | 1.51 |
| 29 | m | 607 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 29 | d | 307 | CLA | C4D-ND | -2.56 | 1.34 | 1.37 |
| 30 | B | 843 | PQN | C10-C5 | -2.56 | 1.36 | 1.40 |
| 29 | O | 202 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 29 | m | 608 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 38 | f | 615 | II0 | C20-C14 | 2.55 | 1.55 | 1.50 |
| 29 | A | 812 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | B | 829 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 38 | j | 315 | II0 | C19-C13 | 2.54 | 1.55 | 1.50 |
| 29 | A | 837 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | A | 815 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 38 | b | 301 | II0 | C20-C14 | 2.54 | 1.55 | 1.50 |
| 40 | e | 309 | KC2 | CHB-C4A | -2.54 | 1.33 | 1.39 |
| 29 | A | 831 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 32 | K | 103 | WVN | C19-C11 | 2.54 | 1.38 | 1.32 |
| 40 | k | 613 | KC2 | MG-NA | 2.54 | 2.12 | 2.06 |
| 29 | F | 202 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | A | 826 | CLA | CMC-C2C | -2.53 | 1.45 | 1.50 |
| 32 | A | 844 | WVN | C16-C05 | 2.53 | 1.55 | 1.50 |
| 29 | O | 206 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 32 | s | 405 | WVN | C19-C11 | 2.53 | 1.38 | 1.32 |
| 29 | A | 811 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 40 | f | 611 | KC2 | CHB-C4A | -2.53 | 1.33 | 1.39 |
| 29 | g | 323 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | B | 835 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 38 | m | 616 | II0 | C19-C13 | 2.52 | 1.55 | 1.50 |
| 29 | l | 301 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 38 | c | 313 | II0 | C20-C14 | 2.52 | 1.55 | 1.50 |
| 29 | a | 311 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | B | 839 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 38 | m | 618 | II0 | C20-C14 | 2.52 | 1.55 | 1.50 |
| 29 | A | 819 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 32 | A | 847 | WVN | C16-C05 | 2.52 | 1.55 | 1.50 |
| 29 | B | 820 | CLA | CMD-C2D | -2.52 | 1.45 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | a | 309 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 29 | b | 312 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 33 | A | 849 | LMU | O5B-C1B | 2.51 | 1.48 | 1.41 |
| 32 | L | 205 | WVN | C21-C15 | 2.51 | 1.55 | 1.50 |
| 29 | i | 311 | CLA | CMD-C2D | -2.51 | 1.45 | 1.50 |
| 38 | f | 614 | II0 | C12-C14 | 2.51 | 1.55 | 1.51 |
| 29 | b | 310 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 38 | e | 312 | II0 | C11-C13 | 2.51 | 1.55 | 1.51 |
| 38 | e | 314 | II0 | C12-C14 | 2.51 | 1.55 | 1.51 |
| 32 | s | 407 | WVN | C21-C15 | 2.51 | 1.55 | 1.50 |
| 29 | B | 824 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 32 | J | 101 | WVN | C21-C15 | 2.51 | 1.55 | 1.50 |
| 40 | j | 312 | KC2 | CHB-C4A | -2.51 | 1.33 | 1.39 |
| 29 | B | 811 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 32 | A | 845 | WVN | C21-C15 | 2.51 | 1.55 | 1.50 |
| 38 | m | 614 | II0 | C20-C14 | 2.51 | 1.55 | 1.50 |
| 33 | A | 849 | LMU | O3'-C3' | 2.51 | 1.48 | 1.43 |
| 29 | n | 608 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 33 | A | 849 | LMU | C6B-C5B | -2.51 | 1.43 | 1.51 |
| 32 | I | 101 | WVN | C16-C05 | 2.51 | 1.55 | 1.50 |
| 30 | A | 841 | PQN | C10-C5 | -2.50 | 1.36 | 1.40 |
| 40 | g | 314 | KC2 | CHB-C4A | -2.50 | 1.33 | 1.39 |
| 32 | R | 201 | WVN | C21-C15 | 2.50 | 1.55 | 1.50 |
| 29 | c | 312 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 38 | i | 313 | II0 | C20-C14 | 2.50 | 1.55 | 1.50 |
| 29 | A | 826 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | g | 303 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | g | 310 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 28 | A | 801 | CL0 | C1D-C2D | -2.50 | 1.40 | 1.45 |
| 29 | B | 840 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 40 | k | 612 | KC2 | MG-NA | 2.50 | 2.12 | 2.06 |
| 29 | k | 602 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | A | 836 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | n | 609 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 32 | h | 308 | WVN | C19-C11 | 2.49 | 1.38 | 1.32 |
| 29 | b | 307 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | f | 610 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | j | 307 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | B | 801 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 29 | f | 601 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 38 | m | 614 | II0 | C19-C13 | 2.49 | 1.55 | 1.50 |
| 33 | i | 301 | LMU | C3'-C2' | -2.49 | 1.46 | 1.52 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | a | 317 | II0 | C20-C14 | 2.49 | 1.55 | 1.50 |
| 29 | e | 304 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | c | 309 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | a | 310 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | a | 307 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 33 | A | 849 | LMU | O2'-C2' | 2.48 | 1.48 | 1.43 |
| 37 | n | 620 | LMG | C4-C5 | 2.48 | 1.58 | 1.53 |
| 40 | g | 313 | KC2 | C4A-C3A | 2.48 | 1.49 | 1.44 |
| 31 | A | 842 | LHG | O7-C5 | -2.48 | 1.40 | 1.46 |
| 32 | R | 201 | WVN | C16-C05 | 2.48 | 1.55 | 1.50 |
| 29 | A | 832 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | d | 313 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | a | 302 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | l | 310 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 38 | a | 315 | II0 | C12-C14 | 2.48 | 1.54 | 1.51 |
| 29 | A | 851 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | j | 302 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 40 | g | 313 | KC2 | CHB-C4A | -2.48 | 1.33 | 1.39 |
| 29 | A | 817 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | B | 818 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 29 | k | 608 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 33 | i | 301 | LMU | O3'-C3' | 2.48 | 1.48 | 1.43 |
| 29 | l | 303 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | b | 313 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 32 | F | 204 | WVN | C21-C15 | 2.48 | 1.55 | 1.50 |
| 38 | m | 616 | II0 | C20-C14 | 2.48 | 1.55 | 1.50 |
| 32 | l | 316 | WVN | C16-C05 | 2.48 | 1.55 | 1.50 |
| 29 | m | 613 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | d | 308 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | h | 301 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | A | 809 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | n | 604 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | L | 207 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 32 | l | 316 | WVN | C21-C15 | 2.47 | 1.55 | 1.50 |
| 29 | m | 601 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 38 | k | 619 | II0 | C19-C13 | 2.47 | 1.55 | 1.50 |
| 29 | h | 303 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | b | 306 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | A | 813 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | A | 835 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | l | 309 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | f | 606 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 822 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 38 | n | 615 | II0 | C11-C13 | 2.47 | 1.54 | 1.51 |
| 29 | k | 606 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | F | 201 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | k | 604 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 40 | m | 611 | KC2 | C4A-C3A | 2.46 | 1.49 | 1.44 |
| 38 | k | 616 | II0 | C20-C14 | 2.46 | 1.55 | 1.50 |
| 38 | g | 318 | II0 | C20-C14 | 2.46 | 1.55 | 1.50 |
| 40 | s | 404 | KC2 | C2A-C1A | 2.46 | 1.52 | 1.44 |
| 29 | b | 302 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 40 | k | 611 | KC2 | CHB-C4A | -2.46 | 1.33 | 1.39 |
| 29 | i | 304 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 38 | l | 314 | II0 | C12-C14 | 2.46 | 1.54 | 1.51 |
| 29 | k | 607 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | f | 609 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | B | 820 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | m | 605 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 38 | j | 301 | II0 | C20-C14 | 2.46 | 1.55 | 1.50 |
| 29 | J | 102 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 32 | e | 315 | WVN | C16-C05 | 2.46 | 1.55 | 1.50 |
| 29 | n | 607 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | a | 306 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | e | 305 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 32 | J | 101 | WVN | C16-C05 | 2.45 | 1.55 | 1.50 |
| 29 | k | 610 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | j | 310 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | l | 312 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 38 | a | 314 | II0 | C19-C13 | 2.45 | 1.55 | 1.50 |
| 29 | F | 203 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 38 | e | 313 | II0 | C20-C14 | 2.45 | 1.54 | 1.50 |
| 29 | L | 204 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | B | 821 | CLA | CMC-C2C | -2.45 | 1.45 | 1.50 |
| 29 | n | 610 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | m | 612 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | B | 841 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 38 | a | 313 | II0 | C19-C13 | 2.45 | 1.54 | 1.50 |
| 32 | L | 201 | WVN | C16-C05 | 2.45 | 1.55 | 1.50 |
| 29 | d | 310 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | s | 406 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 32 | M | 101 | WVN | C19-C11 | 2.45 | 1.38 | 1.32 |
| 29 | A | 828 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | B | 807 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | j | 313 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | m | 607 | CLA | C3B-C2B | -2.44 | 1.37 | 1.40 |
| 29 | m | 610 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | i | 306 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | i | 303 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | m | 604 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 33 | i | 301 | LMU | O5B-C1B | 2.44 | 1.48 | 1.41 |
| 29 | n | 606 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | B | 808 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 38 | g | 317 | II0 | C20-C14 | 2.44 | 1.54 | 1.50 |
| 29 | b | 309 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | e | 301 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | B | 826 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | e | 311 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | L | 203 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 38 | b | 301 | II0 | C11-C13 | 2.44 | 1.54 | 1.51 |
| 32 | F | 204 | WVN | C16-C05 | 2.44 | 1.55 | 1.50 |
| 28 | A | 801 | CL0 | C3D-C4D | -2.43 | 1.38 | 1.44 |
| 32 | e | 315 | WVN | C21-C15 | 2.43 | 1.54 | 1.50 |
| 29 | h | 306 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | g | 308 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 40 | n | 611 | KC2 | C2A-C1A | 2.43 | 1.52 | 1.44 |
| 38 | i | 314 | II0 | C12-C14 | 2.43 | 1.54 | 1.51 |
| 29 | i | 302 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 40 | i | 318 | KC2 | CHB-C4A | -2.43 | 1.33 | 1.39 |
| 29 | B | 825 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | j | 311 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | g | 307 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 38 | l | 314 | II0 | C20-C14 | 2.43 | 1.54 | 1.50 |
| 38 | n | 616 | II0 | C19-C13 | 2.43 | 1.54 | 1.50 |
| 29 | k | 601 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | d | 307 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | B | 824 | CLA | CMC-C2C | -2.43 | 1.45 | 1.50 |
| 29 | g | 316 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | f | 605 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 33 | A | 849 | LMU | O5'-C1' | 2.43 | 1.48 | 1.41 |
| 29 | g | 306 | CLA | C3C-C2C | 2.43 | 1.41 | 1.36 |
| 38 | i | 316 | II0 | C12-C14 | 2.43 | 1.54 | 1.51 |
| 29 | B | 821 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | m | 602 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | B | 834 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | h | 302 | CLA | CMC-C2C | -2.43 | 1.45 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | n | 601 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | n | 613 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | e | 308 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | A | 807 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | A | 824 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | c | 301 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | i | 311 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | A | 839 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | A | 821 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | B | 806 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | d | 309 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | Q | 302 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | g | 312 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | B | 801 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 40 | k | 612 | KC2 | CHD-C4C | 2.42 | 1.41 | 1.35 |
| 29 | h | 305 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 38 | a | 315 | II0 | C20-C14 | 2.42 | 1.54 | 1.50 |
| 36 | j | 319 | DGD | O2G-C2G | -2.42 | 1.40 | 1.46 |
| 40 | k | 611 | KC2 | C2A-C1A | 2.42 | 1.52 | 1.44 |
| 29 | j | 305 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | i | 309 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | e | 307 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | j | 309 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | n | 603 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | m | 609 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | l | 306 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | b | 313 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 29 | s | 403 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | k | 614 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | h | 307 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 40 | l | 311 | KC2 | CHB-C4A | -2.41 | 1.33 | 1.39 |
| 29 | i | 308 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | d | 318 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | d | 307 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 38 | b | 301 | II0 | C12-C14 | 2.41 | 1.54 | 1.51 |
| 29 | K | 101 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | B | 803 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | R | 203 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | g | 302 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | n | 605 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | A | 810 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | m | 603 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | e | 302 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | A | 814 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | B | 823 | CLA | CMD-C2D | -2.40 | 1.45 | 1.50 |
| 29 | s | 403 | CLA | CMD-C2D | -2.40 | 1.45 | 1.50 |
| 29 | j | 304 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | g | 311 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | i | 305 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 32 | L | 205 | WVN | C16-C05 | 2.39 | 1.55 | 1.50 |
| 29 | l | 307 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 29 | c | 303 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 38 | b | 301 | II0 | C19-C13 | 2.39 | 1.54 | 1.50 |
| 29 | B | 842 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 29 | k | 605 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 40 | s | 401 | KC2 | C3D-C4D | -2.39 | 1.38 | 1.40 |
| 29 | a | 304 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 29 | B | 833 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 32 | B | 846 | WVN | C16-C05 | 2.38 | 1.55 | 1.50 |
| 40 | d | 312 | KC2 | CHD-C4C | 2.38 | 1.41 | 1.35 |
| 29 | i | 312 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 29 | O | 201 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 32 | I | 101 | WVN | C19-C11 | 2.38 | 1.37 | 1.32 |
| 40 | s | 401 | KC2 | C4A-C3A | 2.38 | 1.49 | 1.44 |
| 29 | B | 810 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 29 | j | 306 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 38 | f | 614 | II0 | C20-C14 | 2.38 | 1.54 | 1.50 |
| 29 | d | 305 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 29 | e | 310 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 38 | i | 319 | II0 | C20-C14 | 2.37 | 1.54 | 1.50 |
| 29 | c | 308 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 40 | c | 310 | KC2 | C4A-C3A | 2.37 | 1.49 | 1.44 |
| 29 | k | 603 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 29 | B | 831 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 38 | l | 315 | II0 | C19-C13 | 2.37 | 1.54 | 1.50 |
| 40 | k | 613 | KC2 | CHD-C4C | 2.37 | 1.41 | 1.35 |
| 29 | b | 305 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 38 | l | 313 | II0 | C12-C14 | 2.37 | 1.54 | 1.51 |
| 32 | B | 848 | WVN | C19-C11 | 2.37 | 1.37 | 1.32 |
| 40 | f | 611 | KC2 | C4A-C3A | 2.37 | 1.49 | 1.44 |
| 32 | B | 848 | WVN | C21-C15 | 2.37 | 1.54 | 1.50 |
| 38 | j | 301 | II0 | C19-C13 | 2.37 | 1.54 | 1.50 |
| 32 | B | 848 | WVN | C16-C05 | 2.37 | 1.55 | 1.50 |
| 29 | B | 805 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | B | 838 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 38 | i | 319 | II0 | C12-C14 | 2.36 | 1.54 | 1.51 |
| 32 | A | 854 | WVN | C21-C15 | 2.36 | 1.54 | 1.50 |
| 29 | c | 311 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | A | 828 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 29 | B | 819 | CLA | C3C-C2C | 2.36 | 1.41 | 1.36 |
| 29 | A | 816 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | j | 308 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 38 | a | 317 | II0 | C19-C13 | 2.36 | 1.54 | 1.50 |
| 29 | f | 607 | CLA | C3B-C2B | -2.36 | 1.37 | 1.40 |
| 29 | A | 825 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | B | 813 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | f | 613 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | d | 304 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | g | 309 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | A | 803 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | h | 304 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 40 | g | 314 | KC2 | C3D-C4D | -2.35 | 1.38 | 1.40 |
| 29 | A | 804 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 29 | B | 823 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 32 | s | 405 | WVN | C16-C05 | 2.35 | 1.55 | 1.50 |
| 29 | B | 815 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 29 | g | 305 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 29 | l | 305 | CLA | CMC-C2C | -2.35 | 1.45 | 1.50 |
| 29 | j | 303 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 29 | l | 308 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 38 | k | 620 | II0 | C20-C14 | 2.35 | 1.54 | 1.50 |
| 37 | n | 620 | LMG | C7-C8 | 2.35 | 1.57 | 1.50 |
| 29 | c | 307 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 29 | b | 308 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 32 | h | 308 | WVN | C16-C05 | 2.34 | 1.55 | 1.50 |
| 29 | b | 303 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 29 | A | 805 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 38 | d | 317 | II0 | C12-C14 | 2.34 | 1.54 | 1.51 |
| 29 | a | 312 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 29 | a | 305 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 29 | l | 305 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 29 | B | 804 | CLA | CMB-C2B | -2.33 | 1.46 | 1.51 |
| 29 | l | 304 | CLA | CMB-C2B | -2.33 | 1.46 | 1.51 |
| 38 | i | 314 | II0 | C20-C14 | 2.33 | 1.54 | 1.50 |
| 32 | l | 302 | WVN | C19-C11 | 2.33 | 1.37 | 1.32 |
| 29 | f | 607 | CLA | CMD-C2D | -2.33 | 1.45 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 834 | CLA | CMB-C2B | -2.33 | 1.46 | 1.51 |
| 29 | a | 311 | CLA | CMD-C2D | -2.33 | 1.45 | 1.50 |
| 29 | e | 306 | CLA | CMB-C2B | -2.33 | 1.46 | 1.51 |
| 37 | b | 319 | LMG | O7-C8 | -2.33 | 1.40 | 1.46 |
| 29 | B | 836 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 40 | i | 318 | KC2 | C1C-C2C | 2.32 | 1.49 | 1.44 |
| 29 | A | 830 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 29 | j | 314 | CLA | CMB-C2B | -2.32 | 1.46 | 1.51 |
| 29 | f | 613 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 29 | f | 608 | CLA | CMB-C2B | -2.32 | 1.46 | 1.51 |
| 29 | f | 612 | CLA | CMB-C2B | -2.32 | 1.46 | 1.51 |
| 29 | f | 602 | CLA | CMB-C2B | -2.31 | 1.46 | 1.51 |
| 38 | m | 616 | II0 | C12-C14 | 2.31 | 1.54 | 1.51 |
| 38 | J | 103 | II0 | C20-C14 | 2.31 | 1.54 | 1.50 |
| 29 | f | 610 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 38 | f | 615 | II0 | C19-C13 | 2.31 | 1.54 | 1.50 |
| 29 | B | 822 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 29 | A | 840 | CLA | CMB-C2B | -2.31 | 1.46 | 1.51 |
| 29 | c | 302 | CLA | CMB-C2B | -2.31 | 1.46 | 1.51 |
| 29 | c | 305 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 32 | l | 302 | WVN | C16-C05 | 2.31 | 1.54 | 1.50 |
| 32 | I | 101 | WVN | C21-C15 | 2.31 | 1.54 | 1.50 |
| 38 | j | 315 | II0 | C12-C14 | 2.31 | 1.54 | 1.51 |
| 29 | h | 302 | CLA | CMB-C2B | -2.31 | 1.46 | 1.51 |
| 38 | d | 301 | II0 | C19-C13 | 2.31 | 1.54 | 1.50 |
| 38 | g | 318 | II0 | C19-C13 | 2.30 | 1.54 | 1.50 |
| 29 | d | 302 | CLA | CMB-C2B | -2.30 | 1.46 | 1.51 |
| 38 | k | 616 | II0 | C19-C13 | 2.30 | 1.54 | 1.50 |
| 29 | B | 802 | CLA | CMB-C2B | -2.30 | 1.46 | 1.51 |
| 29 | A | 817 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 32 | A | 844 | WVN | C19-C11 | 2.30 | 1.37 | 1.32 |
| 29 | e | 303 | CLA | CMB-C2B | -2.29 | 1.46 | 1.51 |
| 38 | k | 615 | II0 | C19-C13 | 2.29 | 1.54 | 1.50 |
| 29 | m | 602 | CLA | C3C-C2C | 2.29 | 1.41 | 1.36 |
| 29 | n | 602 | CLA | CMB-C2B | -2.29 | 1.46 | 1.51 |
| 38 | k | 620 | II0 | C12-C14 | 2.29 | 1.54 | 1.51 |
| 38 | n | 615 | II0 | C12-C14 | 2.29 | 1.54 | 1.51 |
| 29 | d | 303 | CLA | CMB-C2B | -2.29 | 1.46 | 1.51 |
| 29 | B | 819 | CLA | CMB-C2B | -2.29 | 1.46 | 1.51 |
| 32 | B | 847 | WVN | C16-C05 | 2.28 | 1.54 | 1.50 |
| 29 | B | 813 | CLA | CMD-C2D | -2.28 | 1.46 | 1.50 |
| 29 | a | 303 | CLA | CMB-C2B | -2.28 | 1.46 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 32 | B | 847 | WVN | C19-C11 | 2.28 | 1.37 | 1.32 |
| 38 | d | 315 | II0 | C12-C14 | 2.28 | 1.54 | 1.51 |
| 29 | K | 102 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 33 | i | 301 | LMU | O2'-C2' | 2.28 | 1.48 | 1.43 |
| 29 | B | 808 | CLA | CMD-C2D | -2.28 | 1.46 | 1.50 |
| 38 | j | 315 | II0 | C11-C13 | 2.27 | 1.54 | 1.51 |
| 38 | e | 312 | II0 | C20-C14 | 2.27 | 1.54 | 1.50 |
| 36 | B | 844 | DGD | C1D-C2D | 2.27 | 1.59 | 1.52 |
| 29 | B | 803 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 32 | B | 849 | WVN | C16-C05 | 2.27 | 1.54 | 1.50 |
| 38 | d | 316 | II0 | C11-C13 | 2.27 | 1.54 | 1.51 |
| 29 | B | 822 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 29 | K | 102 | CLA | CMB-C2B | -2.27 | 1.46 | 1.51 |
| 29 | B | 841 | CLA | C3B-C2B | -2.26 | 1.37 | 1.40 |
| 29 | B | 835 | CLA | C3B-C2B | -2.26 | 1.37 | 1.40 |
| 40 | f | 611 | KC2 | C3D-C4D | -2.26 | 1.38 | 1.40 |
| 29 | B | 803 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 38 | h | 310 | II0 | C19-C13 | 2.26 | 1.54 | 1.50 |
| 29 | f | 603 | CLA | CMB-C2B | -2.26 | 1.46 | 1.51 |
| 38 | m | 614 | II0 | C11-C13 | 2.26 | 1.54 | 1.51 |
| 38 | h | 310 | II0 | C20-C14 | 2.26 | 1.54 | 1.50 |
| 38 | i | 319 | II0 | C19-C13 | 2.26 | 1.54 | 1.50 |
| 38 | f | 616 | II0 | C19-C13 | 2.25 | 1.54 | 1.50 |
| 29 | a | 302 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 38 | h | 311 | II0 | C12-C14 | 2.25 | 1.54 | 1.51 |
| 38 | g | 319 | II0 | C20-C14 | 2.25 | 1.54 | 1.50 |
| 36 | j | 319 | DGD | O1G-C1G | -2.25 | 1.40 | 1.45 |
| 38 | k | 619 | II0 | C12-C14 | 2.25 | 1.54 | 1.51 |
| 29 | A | 818 | CLA | C3B-C2B | -2.25 | 1.37 | 1.40 |
| 29 | B | 809 | CLA | C3B-C2B | -2.24 | 1.37 | 1.40 |
| 33 | i | 301 | LMU | O5'-C1' | 2.24 | 1.47 | 1.41 |
| 32 | F | 207 | WVN | C16-C05 | 2.24 | 1.54 | 1.50 |
| 40 | j | 312 | KC2 | C3D-C4D | -2.24 | 1.38 | 1.40 |
| 29 | A | 827 | CLA | CMB-C2B | -2.24 | 1.47 | 1.51 |
| 29 | s | 402 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 40 | g | 313 | KC2 | C3D-C4D | -2.24 | 1.38 | 1.40 |
| 29 | b | 304 | CLA | CMB-C2B | -2.24 | 1.47 | 1.51 |
| 32 | F | 207 | WVN | C19-C11 | 2.24 | 1.37 | 1.32 |
| 29 | b | 310 | CLA | C3B-C2B | -2.24 | 1.37 | 1.40 |
| 29 | g | 304 | CLA | C3B-C2B | -2.23 | 1.37 | 1.40 |
| 29 | h | 312 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 29 | n | 602 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 804 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 29 | O | 201 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 29 | d | 313 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 38 | g | 319 | II0 | C12-C14 | 2.23 | 1.54 | 1.51 |
| 32 | A | 847 | WVN | C19-C11 | 2.23 | 1.37 | 1.32 |
| 29 | k | 614 | CLA | C3C-C2C | 2.22 | 1.41 | 1.36 |
| 29 | n | 607 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 38 | a | 313 | II0 | C20-C14 | 2.22 | 1.54 | 1.50 |
| 29 | j | 303 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 29 | j | 314 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 38 | e | 314 | II0 | C11-C13 | 2.22 | 1.54 | 1.51 |
| 31 | A | 843 | LHG | O7-C5 | -2.22 | 1.41 | 1.46 |
| 31 | b | 318 | LHG | O7-C5 | -2.22 | 1.41 | 1.46 |
| 33 | A | 849 | LMU | O3B-C3B | 2.21 | 1.48 | 1.43 |
| 38 | m | 618 | II0 | C19-C13 | 2.21 | 1.54 | 1.50 |
| 29 | A | 822 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 29 | B | 830 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 29 | c | 303 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 36 | j | 319 | DGD | O6D-C5D | -2.21 | 1.39 | 1.44 |
| 38 | f | 614 | II0 | C19-C13 | 2.21 | 1.54 | 1.50 |
| 29 | A | 817 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 29 | B | 808 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 29 | A | 802 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 38 | h | 309 | II0 | C19-C13 | 2.20 | 1.54 | 1.50 |
| 29 | B | 825 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 29 | F | 201 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 38 | i | 316 | II0 | C19-C13 | 2.20 | 1.54 | 1.50 |
| 31 | J | 104 | LHG | O7-C5 | -2.20 | 1.41 | 1.46 |
| 29 | a | 307 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 29 | l | 312 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 40 | k | 612 | KC2 | C1A-CHA | 2.20 | 1.46 | 1.40 |
| 32 | B | 849 | WVN | C19-C11 | 2.20 | 1.37 | 1.32 |
| 40 | k | 613 | KC2 | C1A-CHA | 2.20 | 1.46 | 1.40 |
| 29 | A | 829 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 29 | e | 310 | CLA | CMC-C2C | -2.20 | 1.46 | 1.50 |
| 38 | h | 311 | II0 | C20-C14 | 2.20 | 1.54 | 1.50 |
| 29 | A | 808 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 38 | k | 615 | II0 | C11-C13 | 2.20 | 1.54 | 1.51 |
| 40 | i | 310 | KC2 | C3D-C4D | -2.20 | 1.38 | 1.40 |
| 31 | j | 318 | LHG | O7-C5 | -2.20 | 1.41 | 1.46 |
| 38 | f | 615 | II0 | C12-C14 | 2.19 | 1.54 | 1.51 |
| 29 | A | 804 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 813 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 40 | g | 314 | KC2 | C4D-CHA | 2.19 | 1.47 | 1.45 |
| 38 | e | 313 | II0 | C11-C13 | 2.19 | 1.54 | 1.51 |
| 29 | k | 602 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 29 | B | 814 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 29 | B | 811 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 38 | b | 314 | II0 | C19-C13 | 2.19 | 1.54 | 1.50 |
| 29 | m | 603 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 38 | i | 314 | II0 | C11-C13 | 2.19 | 1.54 | 1.51 |
| 38 | f | 614 | II0 | C11-C13 | 2.18 | 1.54 | 1.51 |
| 29 | j | 304 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 29 | A | 833 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 29 | h | 301 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 38 | c | 313 | II0 | C11-C13 | 2.18 | 1.54 | 1.51 |
| 38 | f | 618 | II0 | C19-C13 | 2.18 | 1.54 | 1.50 |
| 29 | A | 834 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 29 | b | 310 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 33 | i | 301 | LMU | O3B-C3B | 2.18 | 1.48 | 1.43 |
| 38 | g | 319 | II0 | C19-C13 | 2.18 | 1.54 | 1.50 |
| 29 | A | 837 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 32 | K | 103 | WVN | C16-C05 | 2.17 | 1.54 | 1.50 |
| 38 | m | 615 | II0 | C12-C14 | 2.17 | 1.54 | 1.51 |
| 29 | A | 831 | CLA | C3B-C2B | -2.16 | 1.37 | 1.40 |
| 29 | b | 307 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 29 | m | 604 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 37 | O | 205 | LMG | O7-C8 | -2.16 | 1.41 | 1.46 |
| 32 | L | 206 | WVN | C16-C05 | 2.16 | 1.54 | 1.50 |
| 29 | d | 302 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 38 | i | 313 | II0 | C11-C13 | 2.16 | 1.54 | 1.51 |
| 40 | e | 309 | KC2 | C1D-CHD | 2.16 | 1.47 | 1.41 |
| 29 | B | 812 | CLA | CMC-C2C | -2.16 | 1.46 | 1.50 |
| 29 | s | 403 | CLA | CMC-C2C | -2.16 | 1.46 | 1.50 |
| 38 | k | 620 | II0 | C19-C13 | 2.16 | 1.54 | 1.50 |
| 38 | a | 314 | II0 | C12-C14 | 2.16 | 1.54 | 1.51 |
| 38 | m | 618 | II0 | C11-C13 | 2.16 | 1.54 | 1.51 |
| 29 | k | 606 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 29 | B | 831 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 29 | A | 810 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 29 | f | 602 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 36 | j | 319 | DGD | C4D-C3D | 2.15 | 1.57 | 1.52 |
| 29 | b | 303 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 29 | B | 842 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | a | 305 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 38 | l | 314 | II0 | C19-C13 | 2.15 | 1.54 | 1.50 |
| 29 | B | 818 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 32 | B | 846 | WVN | C19-C11 | 2.14 | 1.37 | 1.32 |
| 38 | j | 301 | II0 | C12-C14 | 2.14 | 1.54 | 1.51 |
| 31 | s | 408 | LHG | P-O6 | 2.14 | 1.67 | 1.60 |
| 29 | B | 809 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 29 | B | 816 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 38 | j | 316 | II0 | C11-C13 | 2.14 | 1.54 | 1.51 |
| 29 | A | 802 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 38 | e | 312 | II0 | C12-C14 | 2.14 | 1.54 | 1.51 |
| 29 | A | 827 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 31 | e | 317 | LHG | P-O6 | 2.14 | 1.68 | 1.59 |
| 38 | j | 315 | II0 | C20-C14 | 2.14 | 1.54 | 1.50 |
| 29 | n | 607 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 29 | B | 804 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 29 | g | 309 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 29 | A | 803 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | n | 603 | CLA | C3B-C2B | -2.13 | 1.37 | 1.40 |
| 38 | J | 103 | II0 | C12-C14 | 2.13 | 1.54 | 1.51 |
| 38 | j | 316 | II0 | C12-C14 | 2.13 | 1.54 | 1.51 |
| 29 | A | 808 | CLA | C3B-C2B | -2.13 | 1.37 | 1.40 |
| 38 | J | 103 | II0 | C11-C13 | 2.13 | 1.54 | 1.51 |
| 29 | A | 816 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 38 | g | 319 | II0 | C11-C13 | 2.13 | 1.54 | 1.51 |
| 29 | B | 840 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 29 | c | 308 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 29 | j | 305 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 38 | k | 619 | II0 | C20-C14 | 2.13 | 1.54 | 1.50 |
| 32 | L | 201 | WVN | C19-C11 | 2.13 | 1.37 | 1.32 |
| 37 | b | 319 | LMG | C7-C8 | 2.13 | 1.57 | 1.50 |
| 29 | f | 612 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | g | 323 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | A | 828 | CLA | CMC-C2C | -2.12 | 1.46 | 1.50 |
| 29 | B | 806 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | L | 204 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | c | 306 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | d | 306 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | B | 828 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | A | 829 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 38 | g | 317 | II0 | C19-C13 | 2.12 | 1.54 | 1.50 |
| 32 | B | 849 | WVN | C14-C15 | 2.12 | 1.55 | 1.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | f | 616 | II0 | C20-C14 | 2.12 | 1.54 | 1.50 |
| 29 | g | 311 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | g | 304 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 38 | k | 616 | II0 | C11-C13 | 2.12 | 1.54 | 1.51 |
| 40 | d | 311 | KC2 | C1C-C2C | 2.12 | 1.48 | 1.44 |
| 40 | c | 310 | KC2 | C3D-C4D | -2.12 | 1.38 | 1.40 |
| 29 | m | 608 | CLA | C3B-CAB | -2.12 | 1.43 | 1.47 |
| 29 | A | 823 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 38 | f | 615 | II0 | C11-C13 | 2.11 | 1.54 | 1.51 |
| 29 | A | 820 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 38 | a | 313 | II0 | C12-C14 | 2.11 | 1.54 | 1.51 |
| 29 | c | 302 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | n | 603 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 31 | c | 316 | LHG | P-O6 | 2.11 | 1.67 | 1.59 |
| 29 | i | 303 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | e | 308 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | A | 818 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | n | 613 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | A | 811 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 29 | b | 304 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 32 | A | 845 | WVN | C06-C13 | 2.11 | 1.56 | 1.53 |
| 38 | d | 315 | II0 | C11-C13 | 2.11 | 1.54 | 1.51 |
| 29 | l | 312 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 35 | A | 853 | SQD | O2-C2 | -2.11 | 1.38 | 1.43 |
| 29 | k | 607 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 40 | n | 612 | KC2 | C1A-CHA | 2.11 | 1.46 | 1.40 |
| 29 | g | 311 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 29 | f | 603 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 32 | i | 315 | WVN | C14-C15 | 2.11 | 1.55 | 1.51 |
| 29 | g | 304 | CLA | C3B-CAB | -2.11 | 1.43 | 1.47 |
| 29 | A | 809 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 38 | m | 616 | II0 | C11-C13 | 2.10 | 1.54 | 1.51 |
| 29 | a | 304 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 38 | k | 616 | II0 | C12-C14 | 2.10 | 1.54 | 1.51 |
| 29 | A | 851 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | A | 816 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 29 | A | 836 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | a | 312 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | A | 812 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 29 | B | 807 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 38 | h | 310 | II0 | C12-C14 | 2.10 | 1.54 | 1.51 |
| 29 | B | 818 | CLA | C3B-CAB | -2.10 | 1.43 | 1.47 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | b | 303 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | B | 840 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | O | 206 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 38 | i | 313 | II0 | C12-C14 | 2.10 | 1.54 | 1.51 |
| 29 | b | 309 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 40 | c | 310 | KC2 | C1C-C2C | 2.09 | 1.48 | 1.44 |
| 29 | B | 820 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 29 | j | 304 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 38 | g | 318 | II0 | C11-C13 | 2.09 | 1.54 | 1.51 |
| 38 | a | 315 | II0 | C19-C13 | 2.09 | 1.54 | 1.50 |
| 29 | g | 310 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | B | 830 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 29 | B | 828 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 40 | i | 318 | KC2 | C1D-CHD | 2.09 | 1.46 | 1.41 |
| 29 | d | 309 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 31 | g | 322 | LHG | O7-C5 | -2.09 | 1.41 | 1.46 |
| 29 | B | 812 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | f | 608 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 40 | g | 315 | KC2 | C3D-C4D | -2.09 | 1.38 | 1.40 |
| 29 | s | 406 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 38 | k | 619 | II0 | C11-C13 | 2.09 | 1.54 | 1.51 |
| 29 | g | 303 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 40 | n | 611 | KC2 | C1C-C2C | 2.09 | 1.48 | 1.44 |
| 29 | A | 820 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 38 | l | 313 | II0 | C20-C14 | 2.09 | 1.54 | 1.50 |
| 40 | l | 311 | KC2 | C4D-CHA | 2.09 | 1.47 | 1.45 |
| 29 | a | 303 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | n | 609 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 29 | a | 309 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 40 | n | 612 | KC2 | C1B-NB | -2.09 | 1.35 | 1.37 |
| 29 | A | 839 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | L | 202 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | O | 202 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | A | 808 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 29 | e | 304 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | k | 602 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | j | 313 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | g | 305 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 32 | F | 207 | WVN | C14-C15 | 2.08 | 1.55 | 1.51 |
| 29 | d | 318 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | n | 601 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | g | 316 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 38 | a | 314 | II0 | C11-C13 | 2.08 | 1.54 | 1.51 |
| 29 | b | 308 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | g | 309 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 38 | l | 313 | II0 | C11-C13 | 2.08 | 1.54 | 1.51 |
| 32 | A | 844 | WVN | C06-C13 | 2.08 | 1.56 | 1.53 |
| 29 | L | 203 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | A | 812 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | i | 307 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | c | 311 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | B | 821 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 38 | d | 317 | II0 | C19-C13 | 2.08 | 1.54 | 1.50 |
| 32 | B | 846 | WVN | C06-C13 | 2.08 | 1.56 | 1.53 |
| 29 | A | 831 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | l | 306 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 40 | i | 310 | KC2 | C2A-C1A | 2.08 | 1.50 | 1.44 |
| 32 | R | 201 | WVN | C19-C11 | 2.08 | 1.37 | 1.32 |
| 29 | c | 305 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | j | 306 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 40 | s | 401 | KC2 | C2A-C1A | 2.08 | 1.50 | 1.44 |
| 38 | n | 615 | II0 | C20-C14 | 2.08 | 1.54 | 1.50 |
| 35 | A | 853 | SQD | O4-C4 | -2.08 | 1.38 | 1.43 |
| 29 | B | 834 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 29 | A | 819 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | B | 838 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | k | 602 | CLA | C3B-CAB | -2.07 | 1.43 | 1.47 |
| 29 | k | 608 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 29 | i | 312 | CLA | C3C-C2C | 2.07 | 1.41 | 1.36 |
| 29 | e | 303 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | e | 302 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | Q | 302 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | A | 850 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | m | 613 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | j | 307 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | d | 309 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 40 | d | 312 | KC2 | C1A-CHA | 2.07 | 1.46 | 1.40 |
| 38 | b | 315 | II0 | C12-C14 | 2.07 | 1.54 | 1.51 |
| 29 | B | 813 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 29 | j | 310 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 40 | d | 312 | KC2 | C1B-NB | -2.07 | 1.35 | 1.37 |
| 40 | g | 313 | KC2 | C1D-CHD | 2.07 | 1.46 | 1.41 |
| 29 | m | 607 | CLA | C3B-CAB | -2.07 | 1.43 | 1.47 |
| 29 | m | 602 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | A | 805 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | A | 835 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | B | 811 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | a | 310 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 31 | f | 620 | LHG | P-O6 | 2.06 | 1.67 | 1.59 |
| 29 | L | 207 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | J | 102 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 29 | A | 840 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | b | 305 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | l | 301 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 40 | i | 318 | KC2 | CAA-C2A | 2.06 | 1.52 | 1.46 |
| 29 | j | 309 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | A | 823 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 29 | f | 601 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | j | 308 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | k | 608 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 36 | B | 844 | DGD | O6D-C5D | -2.06 | 1.39 | 1.44 |
| 29 | h | 304 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 38 | e | 313 | II0 | C19-C13 | 2.06 | 1.54 | 1.50 |
| 29 | a | 309 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | B | 832 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | l | 305 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 38 | j | 316 | II0 | C19-C13 | 2.06 | 1.54 | 1.50 |
| 31 | L | 208 | LHG | O7-C5 | -2.06 | 1.41 | 1.46 |
| 29 | A | 809 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | m | 612 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | A | 829 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | h | 307 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | i | 305 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | f | 604 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | j | 302 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | A | 815 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | B | 837 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | m | 607 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | f | 609 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | g | 307 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 33 | i | 301 | LMU | C3B-C2B | -2.05 | 1.47 | 1.52 |
| 29 | B | 828 | CLA | C3B-CAB | -2.05 | 1.43 | 1.47 |
| 29 | B | 819 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | l | 304 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | R | 203 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | c | 304 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 40 | l | 311 | KC2 | C3D-C4D | -2.04 | 1.38 | 1.40 |
| 31 | L | 208 | LHG | P-O6 | 2.04 | 1.67 | 1.59 |
| 29 | f | 609 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 33 | i | 301 | LMU | O2B-C2B | 2.04 | 1.47 | 1.43 |
| 29 | h | 302 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | B | 801 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | B | 805 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | k | 610 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | k | 609 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 33 | A | 849 | LMU | C3'-C2' | -2.04 | 1.47 | 1.52 |
| 29 | f | 602 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | B | 817 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | F | 202 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 32 | A | 846 | WVN | C19-C11 | 2.04 | 1.37 | 1.32 |
| 29 | i | 312 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | A | 814 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | A | 826 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | B | 841 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | g | 302 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | A | 807 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | l | 306 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | j | 306 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | A | 811 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | c | 306 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | c | 312 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | n | 603 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 32 | h | 308 | WVN | C06-C13 | 2.04 | 1.56 | 1.53 |
| 38 | h | 311 | II0 | C11-C13 | 2.04 | 1.54 | 1.51 |
| 29 | b | 302 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | h | 305 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | k | 609 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | i | 309 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 40 | e | 309 | KC2 | C3C-C4C | 2.03 | 1.48 | 1.44 |
| 31 | J | 104 | LHG | P-O6 | 2.03 | 1.67 | 1.59 |
| 29 | g | 308 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | O | 206 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | d | 304 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | i | 304 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | n | 607 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 29 | m | 606 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | i | 308 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 32 | B | 847 | WVN | C06-C13 | 2.03 | 1.56 | 1.53 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | B | 815 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | O | 206 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 29 | l | 308 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | g | 306 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | B | 810 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | f | 605 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 40 | g | 313 | KC2 | C2A-C1A | 2.03 | 1.50 | 1.44 |
| 29 | i | 302 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | B | 837 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 40 | g | 315 | KC2 | C1C-C2C | 2.03 | 1.48 | 1.44 |
| 29 | B | 833 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | h | 305 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | j | 313 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | d | 310 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | A | 837 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 29 | A | 824 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 38 | l | 314 | II0 | C11-C13 | 2.02 | 1.54 | 1.51 |
| 29 | a | 305 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | k | 601 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | A | 838 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 29 | F | 203 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | A | 810 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | l | 309 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | c | 307 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | n | 605 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | g | 312 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | B | 839 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | e | 311 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | b | 306 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | c | 306 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 29 | h | 303 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | A | 806 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | e | 301 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | k | 604 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | f | 603 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | A | 818 | CLA | C3C-C2C | 2.02 | 1.41 | 1.36 |
| 29 | a | 306 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | m | 608 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | A | 825 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | e | 305 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | B | 827 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | i | 306 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|---|---|---|---|---|---|---|---|
| 29 | d | 303 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 40 | k | 611 | KC2 | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 29 | L | 207 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | m | 601 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | B | 834 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 38 | l | 315 | II0 | C12-C14 | 2.01 | 1.54 | 1.51 |
| 36 | B | 844 | DGD | C3D-C2D | 2.01 | 1.57 | 1.52 |
| 29 | a | 311 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | n | 609 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | A | 838 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 36 | B | 844 | DGD | O1G-C1G | -2.01 | 1.40 | 1.45 |
| 29 | B | 832 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |
| 30 | A | 841 | PQN | C9-C10 | 2.01 | 1.43 | 1.39 |
| 29 | e | 307 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | d | 303 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 38 | d | 301 | II0 | C11-C13 | 2.01 | 1.54 | 1.51 |
| 29 | j | 311 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | a | 310 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 31 | s | 408 | LHG | O7-C5 | -2.01 | 1.41 | 1.46 |
| 29 | k | 603 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | c | 303 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | e | 306 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | m | 609 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 40 | d | 311 | KC2 | C1D-CHD | 2.00 | 1.46 | 1.41 |
| 29 | B | 842 | CLA | C3B-CAB | -2.00 | 1.43 | 1.47 |
| 29 | B | 807 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 33 | A | 849 | LMU | O2B-C2B | 2.00 | 1.47 | 1.43 |
| 29 | B | 835 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | k | 603 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 40 | i | 310 | KC2 | C1D-CHD | 2.00 | 1.46 | 1.41 |
| 29 | B | 838 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | B | 826 | CLA | MG-ND | -2.00 | 2.01 | 2.05 |
| 40 | l | 311 | KC2 | CAA-C2A | 2.00 | 1.52 | 1.46 |
| 32 | L | 206 | WVN | C14-C15 | 2.00 | 1.54 | 1.51 |
| 29 | a | 308 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | j | 308 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | n | 606 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | B | 815 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |

All (4922) bond angle outliers are listed below:

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | e | 314 | II0 | C24-C22-C10 | -25.41 | 111.10 | 175.43 |
| 38 | i | 313 | II0 | C24-C22-C10 | -25.20 | 111.61 | 175.43 |
| 38 | m | 615 | II0 | C23-C21-C09 | -24.97 | 112.20 | 175.43 |
| 38 | m | 616 | II0 | C23-C21-C09 | -24.96 | 112.23 | 175.43 |
| 38 | m | 615 | II0 | C24-C22-C10 | -24.96 | 112.24 | 175.43 |
| 38 | e | 312 | II0 | C23-C21-C09 | -24.95 | 112.25 | 175.43 |
| 38 | i | 316 | II0 | C23-C21-C09 | -24.94 | 112.27 | 175.43 |
| 38 | k | 615 | II0 | C23-C21-C09 | -24.94 | 112.28 | 175.43 |
| 38 | e | 313 | II0 | C23-C21-C09 | -24.93 | 112.30 | 175.43 |
| 38 | m | 618 | II0 | C23-C21-C09 | -24.92 | 112.33 | 175.43 |
| 38 | a | 317 | II0 | C23-C21-C09 | -24.91 | 112.35 | 175.43 |
| 38 | a | 314 | II0 | C23-C21-C09 | -24.91 | 112.36 | 175.43 |
| 38 | j | 315 | II0 | C23-C21-C09 | -24.91 | 112.37 | 175.43 |
| 38 | i | 319 | II0 | C23-C21-C09 | -24.91 | 112.37 | 175.43 |
| 38 | i | 313 | II0 | C23-C21-C09 | -24.90 | 112.37 | 175.43 |
| 38 | n | 615 | II0 | C23-C21-C09 | -24.89 | 112.40 | 175.43 |
| 38 | k | 619 | II0 | C23-C21-C09 | -24.89 | 112.41 | 175.43 |
| 38 | m | 614 | II0 | C23-C21-C09 | -24.88 | 112.43 | 175.43 |
| 38 | f | 618 | II0 | C23-C21-C09 | -24.88 | 112.43 | 175.43 |
| 38 | n | 616 | II0 | C23-C21-C09 | -24.88 | 112.44 | 175.43 |
| 38 | j | 301 | II0 | C23-C21-C09 | -24.87 | 112.45 | 175.43 |
| 38 | n | 618 | II0 | C23-C21-C09 | -24.87 | 112.45 | 175.43 |
| 38 | b | 301 | II0 | C23-C21-C09 | -24.87 | 112.46 | 175.43 |
| 38 | a | 315 | II0 | C24-C22-C10 | -24.86 | 112.47 | 175.43 |
| 38 | a | 313 | II0 | C23-C21-C09 | -24.86 | 112.47 | 175.43 |
| 38 | d | 316 | II0 | C23-C21-C09 | -24.84 | 112.52 | 175.43 |
| 38 | j | 316 | II0 | C23-C21-C09 | -24.84 | 112.52 | 175.43 |
| 38 | d | 315 | II0 | C23-C21-C09 | -24.84 | 112.53 | 175.43 |
| 38 | h | 311 | II0 | C23-C21-C09 | -24.84 | 112.54 | 175.43 |
| 38 | h | 309 | II0 | C23-C21-C09 | -24.83 | 112.55 | 175.43 |
| 38 | l | 313 | II0 | C23-C21-C09 | -24.83 | 112.57 | 175.43 |
| 38 | g | 317 | II0 | C24-C22-C10 | -24.81 | 112.60 | 175.43 |
| 38 | g | 319 | II0 | C23-C21-C09 | -24.81 | 112.62 | 175.43 |
| 38 | c | 313 | II0 | C23-C21-C09 | -24.80 | 112.64 | 175.43 |
| 38 | b | 314 | II0 | C23-C21-C09 | -24.80 | 112.64 | 175.43 |
| 38 | d | 301 | II0 | C23-C21-C09 | -24.79 | 112.66 | 175.43 |
| 38 | h | 310 | II0 | C23-C21-C09 | -24.79 | 112.66 | 175.43 |
| 38 | f | 615 | II0 | C23-C21-C09 | -24.79 | 112.67 | 175.43 |
| 38 | k | 620 | II0 | C23-C21-C09 | -24.78 | 112.69 | 175.43 |
| 38 | J | 103 | II0 | C23-C21-C09 | -24.77 | 112.70 | 175.43 |
| 38 | f | 614 | II0 | C23-C21-C09 | -24.76 | 112.75 | 175.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | l | 314 | II0 | C23-C21-C09 | -24.75 | 112.76 | 175.43 |
| 38 | d | 317 | II0 | C23-C21-C09 | -24.73 | 112.80 | 175.43 |
| 38 | e | 314 | II0 | C23-C21-C09 | -24.73 | 112.81 | 175.43 |
| 38 | g | 318 | II0 | C23-C21-C09 | -24.73 | 112.82 | 175.43 |
| 38 | n | 616 | II0 | C24-C22-C10 | -24.72 | 112.83 | 175.43 |
| 38 | c | 313 | II0 | C24-C22-C10 | -24.72 | 112.84 | 175.43 |
| 38 | d | 301 | II0 | C24-C22-C10 | -24.71 | 112.86 | 175.43 |
| 38 | l | 313 | II0 | C24-C22-C10 | -24.71 | 112.86 | 175.43 |
| 38 | g | 317 | II0 | C23-C21-C09 | -24.71 | 112.86 | 175.43 |
| 38 | b | 315 | II0 | C23-C21-C09 | -24.71 | 112.86 | 175.43 |
| 38 | i | 316 | II0 | C24-C22-C10 | -24.66 | 112.98 | 175.43 |
| 38 | a | 315 | II0 | C23-C21-C09 | -24.64 | 113.03 | 175.43 |
| 38 | k | 616 | II0 | C24-C22-C10 | -24.63 | 113.06 | 175.43 |
| 38 | g | 318 | II0 | C24-C22-C10 | -24.49 | 113.42 | 175.43 |
| 38 | f | 615 | II0 | C24-C22-C10 | -24.48 | 113.45 | 175.43 |
| 38 | i | 314 | II0 | C23-C21-C09 | -24.44 | 113.55 | 175.43 |
| 38 | k | 616 | II0 | C23-C21-C09 | -24.37 | 113.74 | 175.43 |
| 38 | j | 301 | II0 | C24-C22-C10 | -24.35 | 113.78 | 175.43 |
| 38 | l | 315 | II0 | C24-C22-C10 | -24.32 | 113.84 | 175.43 |
| 38 | j | 316 | II0 | C24-C22-C10 | -24.15 | 114.29 | 175.43 |
| 38 | m | 614 | II0 | C24-C22-C10 | -24.09 | 114.43 | 175.43 |
| 38 | h | 310 | II0 | C24-C22-C10 | -24.04 | 114.57 | 175.43 |
| 38 | l | 315 | II0 | C23-C21-C09 | -24.01 | 114.64 | 175.43 |
| 38 | j | 315 | II0 | C24-C22-C10 | -23.99 | 114.68 | 175.43 |
| 38 | k | 619 | II0 | C24-C22-C10 | -23.99 | 114.69 | 175.43 |
| 38 | e | 313 | II0 | C24-C22-C10 | -23.97 | 114.74 | 175.43 |
| 38 | f | 618 | II0 | C24-C22-C10 | -23.96 | 114.77 | 175.43 |
| 38 | f | 616 | II0 | C23-C21-C09 | -23.95 | 114.80 | 175.43 |
| 38 | d | 316 | II0 | C24-C22-C10 | -23.91 | 114.89 | 175.43 |
| 38 | d | 317 | II0 | C24-C22-C10 | -23.86 | 115.02 | 175.43 |
| 38 | i | 314 | II0 | C24-C22-C10 | -23.85 | 115.04 | 175.43 |
| 38 | m | 618 | II0 | C24-C22-C10 | -23.84 | 115.06 | 175.43 |
| 38 | h | 311 | II0 | C24-C22-C10 | -23.79 | 115.20 | 175.43 |
| 38 | n | 615 | II0 | C24-C22-C10 | -23.76 | 115.27 | 175.43 |
| 38 | a | 317 | II0 | C24-C22-C10 | -23.72 | 115.36 | 175.43 |
| 38 | n | 618 | II0 | C24-C22-C10 | -23.66 | 115.51 | 175.43 |
| 38 | b | 301 | II0 | C24-C22-C10 | -23.65 | 115.54 | 175.43 |
| 38 | f | 614 | II0 | C24-C22-C10 | -23.44 | 116.08 | 175.43 |
| 38 | e | 312 | II0 | C24-C22-C10 | -23.30 | 116.42 | 175.43 |
| 38 | g | 319 | II0 | C24-C22-C10 | -23.22 | 116.63 | 175.43 |
| 38 | a | 313 | II0 | C24-C22-C10 | -23.04 | 117.08 | 175.43 |
| 38 | m | 616 | II0 | C24-C22-C10 | -23.04 | 117.10 | 175.43 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | f | 616 | II0 | C24-C22-C10 | -22.98 | 117.24 | 175.43 |
| 38 | b | 314 | II0 | C24-C22-C10 | -22.92 | 117.40 | 175.43 |
| 38 | J | 103 | II0 | C24-C22-C10 | -22.78 | 117.76 | 175.43 |
| 38 | k | 620 | II0 | C24-C22-C10 | -22.68 | 118.01 | 175.43 |
| 38 | a | 314 | II0 | C24-C22-C10 | -22.38 | 118.77 | 175.43 |
| 38 | l | 314 | II0 | C24-C22-C10 | -22.33 | 118.88 | 175.43 |
| 29 | h | 301 | CLA | O2A-CGA-O1A | -20.72 | 71.29 | 123.59 |
| 38 | d | 315 | II0 | C24-C22-C10 | -20.55 | 123.41 | 175.43 |
| 38 | i | 319 | II0 | C24-C22-C10 | -20.01 | 124.77 | 175.43 |
| 32 | l | 316 | WVN | C20-C23-C25 | 19.93 | 156.35 | 126.23 |
| 38 | b | 315 | II0 | C24-C22-C10 | -19.75 | 125.42 | 175.43 |
| 38 | k | 615 | II0 | C24-C22-C10 | -19.57 | 125.89 | 175.43 |
| 32 | h | 308 | WVN | C20-C23-C25 | 18.06 | 153.53 | 126.23 |
| 32 | K | 103 | WVN | C20-C23-C25 | 17.36 | 152.47 | 126.23 |
| 32 | A | 844 | WVN | C20-C23-C25 | 17.09 | 152.05 | 126.23 |
| 32 | s | 407 | WVN | C20-C23-C25 | 17.03 | 151.96 | 126.23 |
| 32 | R | 201 | WVN | C20-C23-C25 | 16.83 | 151.66 | 126.23 |
| 32 | A | 845 | WVN | C20-C23-C25 | 16.69 | 151.46 | 126.23 |
| 32 | M | 101 | WVN | C20-C23-C25 | 16.65 | 151.39 | 126.23 |
| 32 | A | 846 | WVN | C04-C09-C05 | -16.19 | 109.33 | 124.85 |
| 32 | L | 206 | WVN | C20-C23-C25 | 16.18 | 150.69 | 126.23 |
| 32 | B | 848 | WVN | C20-C23-C25 | 16.15 | 150.64 | 126.23 |
| 32 | L | 205 | WVN | C20-C23-C25 | 16.14 | 150.62 | 126.23 |
| 32 | F | 205 | WVN | C04-C09-C05 | -16.05 | 109.46 | 124.85 |
| 32 | F | 207 | WVN | C20-C23-C25 | 16.02 | 150.45 | 126.23 |
| 32 | J | 101 | WVN | C20-C23-C25 | 15.97 | 150.37 | 126.23 |
| 32 | F | 205 | WVN | C20-C23-C25 | 15.94 | 150.32 | 126.23 |
| 32 | B | 849 | WVN | C20-C23-C25 | 15.88 | 150.23 | 126.23 |
| 32 | A | 854 | WVN | C20-C23-C25 | 15.77 | 150.06 | 126.23 |
| 32 | e | 315 | WVN | C20-C23-C25 | 15.72 | 149.99 | 126.23 |
| 32 | l | 302 | WVN | C20-C23-C25 | 15.62 | 149.84 | 126.23 |
| 32 | I | 101 | WVN | C20-C23-C25 | 15.62 | 149.83 | 126.23 |
| 32 | F | 204 | WVN | C20-C23-C25 | 15.61 | 149.82 | 126.23 |
| 32 | A | 854 | WVN | C04-C09-C05 | -15.54 | 109.95 | 124.85 |
| 32 | L | 201 | WVN | C20-C23-C25 | 15.47 | 149.60 | 126.23 |
| 32 | R | 202 | WVN | C04-C09-C05 | -15.43 | 110.06 | 124.85 |
| 32 | A | 845 | WVN | C04-C09-C05 | -15.42 | 110.06 | 124.85 |
| 32 | L | 201 | WVN | C04-C09-C05 | -15.07 | 110.40 | 124.85 |
| 32 | s | 407 | WVN | C04-C09-C05 | -14.99 | 110.48 | 124.85 |
| 32 | s | 407 | WVN | C21-C15-C13 | -14.97 | 107.72 | 124.53 |
| 32 | B | 847 | WVN | C20-C23-C25 | 14.66 | 148.38 | 126.23 |
| 32 | R | 202 | WVN | C20-C23-C25 | 14.66 | 148.38 | 126.23 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | i | 315 | WVN | C20-C23-C25 | 14.50 | 148.14 | 126.23 |
| 32 | M | 101 | WVN | C04-C09-C05 | -14.46 | 110.99 | 124.85 |
| 29 | h | 301 | CLA | O2A-CGA-CBA | 14.38 | 157.03 | 111.91 |
| 38 | a | 315 | II0 | C32-C34-C36 | -14.36 | 86.06 | 126.42 |
| 32 | A | 844 | WVN | C30-C33-C34 | -14.35 | 86.11 | 126.42 |
| 38 | g | 317 | II0 | C32-C34-C36 | -14.29 | 86.27 | 126.42 |
| 32 | K | 103 | WVN | C30-C33-C34 | -14.26 | 86.35 | 126.42 |
| 32 | L | 206 | WVN | C30-C33-C34 | -14.15 | 86.66 | 126.42 |
| 38 | e | 312 | II0 | C32-C34-C36 | -14.07 | 86.90 | 126.42 |
| 38 | l | 315 | II0 | C32-C34-C36 | -14.06 | 86.91 | 126.42 |
| 32 | A | 847 | WVN | C20-C23-C25 | 14.06 | 147.48 | 126.23 |
| 38 | k | 616 | II0 | C32-C34-C36 | -14.05 | 86.96 | 126.42 |
| 32 | A | 846 | WVN | C20-C23-C25 | 14.01 | 147.41 | 126.23 |
| 38 | i | 316 | II0 | C32-C34-C36 | -14.00 | 87.08 | 126.42 |
| 32 | s | 405 | WVN | C30-C33-C34 | -13.98 | 87.15 | 126.42 |
| 32 | B | 846 | WVN | C40-C37-C34 | -13.86 | 107.53 | 127.31 |
| 38 | d | 316 | II0 | C32-C34-C36 | -13.85 | 87.51 | 126.42 |
| 38 | g | 319 | II0 | C32-C34-C36 | -13.82 | 87.59 | 126.42 |
| 38 | a | 314 | II0 | C32-C34-C36 | -13.75 | 87.78 | 126.42 |
| 38 | c | 313 | II0 | C32-C34-C36 | -13.73 | 87.83 | 126.42 |
| 38 | i | 313 | II0 | C32-C34-C36 | -13.72 | 87.87 | 126.42 |
| 38 | n | 616 | II0 | C32-C34-C36 | -13.71 | 87.90 | 126.42 |
| 32 | L | 205 | WVN | C30-C33-C34 | -13.70 | 87.92 | 126.42 |
| 38 | l | 314 | II0 | C41-C39-C35 | -13.69 | 107.77 | 127.31 |
| 38 | m | 616 | II0 | C32-C34-C36 | -13.63 | 88.12 | 126.42 |
| 38 | J | 103 | II0 | C32-C34-C36 | -13.56 | 88.32 | 126.42 |
| 38 | k | 615 | II0 | C32-C34-C36 | -13.53 | 88.40 | 126.42 |
| 38 | k | 619 | II0 | C32-C34-C36 | -13.53 | 88.40 | 126.42 |
| 38 | f | 618 | II0 | C32-C34-C36 | -13.50 | 88.50 | 126.42 |
| 38 | f | 614 | II0 | C32-C34-C36 | -13.48 | 88.54 | 126.42 |
| 38 | a | 317 | II0 | C32-C34-C36 | -13.45 | 88.63 | 126.42 |
| 32 | A | 845 | WVN | C30-C33-C34 | -13.38 | 88.84 | 126.42 |
| 38 | a | 313 | II0 | C32-C34-C36 | -13.37 | 88.85 | 126.42 |
| 38 | g | 318 | II0 | C32-C34-C36 | -13.32 | 88.99 | 126.42 |
| 32 | e | 315 | WVN | C04-C09-C05 | -13.29 | 112.11 | 124.85 |
| 38 | j | 315 | II0 | C32-C34-C36 | -13.27 | 89.14 | 126.42 |
| 38 | e | 314 | II0 | C32-C34-C36 | -13.26 | 89.16 | 126.42 |
| 38 | n | 618 | II0 | C32-C34-C36 | -13.15 | 89.47 | 126.42 |
| 38 | d | 301 | II0 | C32-C34-C36 | -13.13 | 89.54 | 126.42 |
| 38 | k | 620 | II0 | C32-C34-C36 | -13.12 | 89.55 | 126.42 |
| 32 | M | 101 | WVN | C30-C33-C34 | -13.11 | 89.58 | 126.42 |
| 38 | f | 616 | II0 | C32-C34-C36 | -13.04 | 89.79 | 126.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | L | 205 | WVN | C21-C15-C13 | -13.02 | 109.90 | 124.53 |
| 38 | j | 301 | II0 | C32-C34-C36 | -13.00 | 89.89 | 126.42 |
| 32 | B | 846 | WVN | C20-C23-C25 | 12.93 | 145.78 | 126.23 |
| 32 | B | 846 | WVN | C21-C15-C13 | -12.90 | 110.05 | 124.53 |
| 38 | n | 615 | II0 | C32-C34-C36 | -12.86 | 90.29 | 126.42 |
| 38 | g | 317 | II0 | C41-C39-C35 | -12.81 | 109.02 | 127.31 |
| 32 | B | 848 | WVN | C30-C33-C34 | -12.80 | 90.46 | 126.42 |
| 32 | s | 405 | WVN | C20-C23-C25 | 12.79 | 145.56 | 126.23 |
| 38 | n | 615 | II0 | C41-C39-C35 | -12.76 | 109.10 | 127.31 |
| 32 | L | 206 | WVN | C21-C15-C13 | -12.71 | 110.25 | 124.53 |
| 38 | f | 618 | II0 | C41-C39-C35 | -12.70 | 109.18 | 127.31 |
| 32 | R | 202 | WVN | C30-C33-C34 | -12.68 | 90.79 | 126.42 |
| 32 | L | 201 | WVN | C40-C37-C34 | -12.65 | 109.25 | 127.31 |
| 38 | k | 619 | II0 | C20-C14-C10 | -12.64 | 107.17 | 124.35 |
| 32 | R | 201 | WVN | C21-C15-C13 | -12.64 | 110.34 | 124.53 |
| 32 | F | 205 | WVN | C21-C15-C13 | -12.62 | 110.36 | 124.53 |
| 32 | l | 316 | WVN | C21-C15-C13 | -12.60 | 110.38 | 124.53 |
| 32 | A | 846 | WVN | C21-C15-C13 | -12.54 | 110.44 | 124.53 |
| 32 | A | 844 | WVN | C39-C36-C32 | -12.51 | 109.45 | 127.31 |
| 32 | F | 207 | WVN | C30-C33-C34 | -12.50 | 91.31 | 126.42 |
| 32 | A | 854 | WVN | C30-C33-C34 | -12.49 | 91.34 | 126.42 |
| 32 | A | 847 | WVN | C30-C33-C34 | -12.49 | 91.34 | 126.42 |
| 38 | l | 315 | II0 | C41-C39-C35 | -12.43 | 109.57 | 127.31 |
| 32 | R | 201 | WVN | C30-C33-C34 | -12.42 | 91.53 | 126.42 |
| 32 | B | 846 | WVN | C30-C28-C25 | -12.39 | 109.62 | 127.31 |
| 32 | L | 206 | WVN | C39-C36-C32 | -12.38 | 109.65 | 127.31 |
| 38 | e | 314 | II0 | C41-C39-C35 | -12.35 | 109.68 | 127.31 |
| 32 | I | 101 | WVN | C21-C15-C13 | -12.34 | 110.67 | 124.53 |
| 38 | l | 314 | II0 | C38-C36-C40 | -12.31 | 105.68 | 122.92 |
| 38 | j | 316 | II0 | C32-C34-C36 | -12.28 | 91.93 | 126.42 |
| 38 | b | 301 | II0 | C32-C34-C36 | -12.25 | 92.01 | 126.42 |
| 32 | s | 405 | WVN | C39-C36-C32 | -12.24 | 109.84 | 127.31 |
| 38 | h | 310 | II0 | C41-C39-C35 | -12.22 | 109.87 | 127.31 |
| 32 | F | 204 | WVN | C24-C22-C26 | -12.20 | 105.83 | 122.92 |
| 38 | b | 314 | II0 | C32-C34-C36 | -12.20 | 92.14 | 126.42 |
| 38 | b | 315 | II0 | C32-C34-C36 | -12.20 | 92.16 | 126.42 |
| 38 | f | 615 | II0 | C32-C34-C36 | -12.18 | 92.20 | 126.42 |
| 32 | A | 846 | WVN | C40-C37-C34 | -12.15 | 109.97 | 127.31 |
| 38 | d | 316 | II0 | C41-C39-C35 | -12.13 | 110.00 | 127.31 |
| 38 | m | 614 | II0 | C32-C34-C36 | -12.12 | 92.37 | 126.42 |
| 32 | h | 308 | WVN | C21-C15-C13 | -12.11 | 110.93 | 124.53 |
| 32 | l | 316 | WVN | C40-C37-C34 | -12.07 | 110.08 | 127.31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | c | 313 | II0 | C19-C13-C09 | -12.03 | 108.00 | 124.35 |
| 38 | h | 311 | II0 | C32-C34-C36 | -12.03 | 92.63 | 126.42 |
| 38 | h | 310 | II0 | C32-C34-C36 | -12.02 | 92.65 | 126.42 |
| 40 | g | 313 | KC2 | CMA-C3A-C4A | -11.99 | 106.78 | 125.04 |
| 32 | s | 407 | WVN | C39-C36-C32 | -11.98 | 110.21 | 127.31 |
| 32 | K | 103 | WVN | C04-C09-C05 | -11.95 | 113.40 | 124.85 |
| 38 | h | 309 | II0 | C41-C39-C35 | -11.94 | 110.26 | 127.31 |
| 38 | j | 315 | II0 | C41-C39-C35 | -11.92 | 110.31 | 127.31 |
| 32 | i | 315 | WVN | C04-C09-C05 | -11.91 | 113.43 | 124.85 |
| 38 | g | 319 | II0 | C41-C39-C35 | -11.91 | 110.31 | 127.31 |
| 38 | n | 615 | II0 | C20-C14-C10 | -11.90 | 108.18 | 124.35 |
| 32 | l | 302 | WVN | C21-C15-C13 | -11.88 | 111.19 | 124.53 |
| 32 | h | 308 | WVN | C30-C33-C34 | -11.88 | 93.05 | 126.42 |
| 38 | f | 614 | II0 | C41-C39-C35 | -11.86 | 110.38 | 127.31 |
| 40 | m | 611 | KC2 | CMA-C3A-C4A | -11.86 | 106.98 | 125.04 |
| 32 | i | 315 | WVN | C30-C33-C34 | -11.85 | 93.12 | 126.42 |
| 38 | j | 315 | II0 | C20-C14-C10 | -11.85 | 108.25 | 124.35 |
| 32 | R | 202 | WVN | C21-C15-C13 | -11.84 | 111.23 | 124.53 |
| 32 | s | 405 | WVN | C21-C15-C13 | -11.77 | 111.31 | 124.53 |
| 38 | k | 620 | II0 | C20-C14-C10 | -11.75 | 108.38 | 124.35 |
| 38 | m | 615 | II0 | C32-C34-C36 | -11.75 | 93.40 | 126.42 |
| 38 | a | 313 | II0 | C41-C39-C35 | -11.75 | 110.54 | 127.31 |
| 38 | b | 314 | II0 | C20-C14-C10 | -11.75 | 108.39 | 124.35 |
| 32 | K | 103 | WVN | C21-C15-C13 | -11.73 | 111.36 | 124.53 |
| 38 | k | 620 | II0 | C41-C39-C35 | -11.72 | 110.58 | 127.31 |
| 38 | i | 319 | II0 | C41-C39-C35 | -11.72 | 110.59 | 127.31 |
| 40 | f | 611 | KC2 | CMA-C3A-C4A | -11.71 | 107.21 | 125.04 |
| 38 | l | 314 | II0 | C32-C34-C36 | -11.71 | 93.53 | 126.42 |
| 32 | e | 315 | WVN | C30-C33-C34 | -11.70 | 93.54 | 126.42 |
| 32 | B | 849 | WVN | C39-C36-C32 | -11.67 | 110.65 | 127.31 |
| 40 | s | 404 | KC2 | C2A-C3A-C4A | -11.67 | 97.83 | 106.49 |
| 32 | B | 847 | WVN | C21-C15-C13 | -11.65 | 111.45 | 124.53 |
| 38 | m | 614 | II0 | C41-C39-C35 | -11.63 | 110.72 | 127.31 |
| 32 | l | 302 | WVN | C39-C36-C32 | -11.61 | 110.74 | 127.31 |
| 32 | s | 405 | WVN | C30-C28-C25 | -11.60 | 110.75 | 127.31 |
| 32 | A | 845 | WVN | C21-C15-C13 | -11.58 | 111.53 | 124.53 |
| 32 | A | 845 | WVN | C24-C22-C26 | -11.58 | 106.71 | 122.92 |
| 40 | j | 312 | KC2 | CMA-C3A-C4A | -11.57 | 107.42 | 125.04 |
| 38 | k | 620 | II0 | C19-C13-C09 | -11.56 | 108.64 | 124.35 |
| 32 | B | 849 | WVN | C30-C33-C34 | -11.53 | 94.02 | 126.42 |
| 38 | m | 618 | II0 | C32-C34-C36 | -11.53 | 94.03 | 126.42 |
| 38 | i | 313 | II0 | C19-C13-C09 | -11.51 | 108.71 | 124.35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | a | 317 | II0 | C41-C39-C35 | -11.51 | 110.89 | 127.31 |
| 32 | B | 848 | WVN | C21-C15-C13 | -11.50 | 111.61 | 124.53 |
| 40 | c | 310 | KC2 | CMA-C3A-C4A | -11.49 | 107.53 | 125.04 |
| 32 | B | 847 | WVN | C40-C37-C34 | -11.45 | 110.97 | 127.31 |
| 32 | A | 854 | WVN | C21-C15-C13 | -11.43 | 111.69 | 124.53 |
| 32 | A | 845 | WVN | C39-C36-C32 | -11.43 | 111.00 | 127.31 |
| 38 | i | 313 | II0 | C41-C39-C35 | -11.42 | 111.01 | 127.31 |
| 38 | j | 316 | II0 | C19-C13-C09 | -11.42 | 108.83 | 124.35 |
| 38 | e | 313 | II0 | C19-C13-C09 | -11.40 | 108.86 | 124.35 |
| 38 | f | 616 | II0 | C41-C39-C35 | -11.38 | 111.07 | 127.31 |
| 32 | A | 847 | WVN | C39-C36-C32 | -11.36 | 111.10 | 127.31 |
| 32 | R | 201 | WVN | C39-C36-C32 | -11.35 | 111.11 | 127.31 |
| 38 | k | 615 | II0 | C19-C13-C09 | -11.32 | 108.96 | 124.35 |
| 38 | k | 615 | II0 | C41-C39-C35 | -11.31 | 111.17 | 127.31 |
| 40 | k | 611 | KC2 | CMA-C3A-C4A | -11.30 | 107.82 | 125.04 |
| 38 | f | 614 | II0 | C19-C13-C09 | -11.30 | 108.99 | 124.35 |
| 38 | d | 315 | II0 | C41-C39-C35 | -11.26 | 111.24 | 127.31 |
| 38 | n | 618 | II0 | C41-C39-C35 | -11.26 | 111.25 | 127.31 |
| 32 | J | 101 | WVN | C29-C26-C22 | -11.25 | 111.25 | 127.31 |
| 32 | M | 101 | WVN | C29-C26-C22 | -11.24 | 111.27 | 127.31 |
| 32 | F | 207 | WVN | C39-C36-C32 | -11.20 | 111.32 | 127.31 |
| 38 | l | 313 | II0 | C19-C13-C09 | -11.20 | 109.14 | 124.35 |
| 38 | d | 315 | II0 | C42-C40-C36 | -11.19 | 111.33 | 127.31 |
| 32 | B | 847 | WVN | C29-C26-C22 | -11.18 | 111.36 | 127.31 |
| 38 | a | 315 | II0 | C41-C39-C35 | -11.16 | 111.39 | 127.31 |
| 38 | d | 301 | II0 | C19-C13-C09 | -11.15 | 109.20 | 124.35 |
| 32 | K | 103 | WVN | C29-C26-C22 | -11.14 | 111.41 | 127.31 |
| 32 | l | 302 | WVN | C04-C09-C05 | -11.14 | 114.17 | 124.85 |
| 40 | n | 611 | KC2 | CMA-C3A-C4A | -11.13 | 108.09 | 125.04 |
| 32 | J | 101 | WVN | C21-C15-C13 | -11.12 | 112.04 | 124.53 |
| 38 | J | 103 | II0 | C20-C14-C10 | -11.09 | 109.28 | 124.35 |
| 32 | i | 315 | WVN | C39-C36-C32 | -11.08 | 111.50 | 127.31 |
| 32 | R | 202 | WVN | C24-C22-C26 | -11.07 | 107.42 | 122.92 |
| 32 | J | 101 | WVN | C40-C37-C34 | -11.07 | 111.52 | 127.31 |
| 32 | A | 846 | WVN | C39-C36-C32 | -11.06 | 111.52 | 127.31 |
| 38 | J | 103 | II0 | C19-C13-C09 | -11.03 | 109.35 | 124.35 |
| 38 | a | 314 | II0 | C20-C14-C10 | -11.03 | 109.36 | 124.35 |
| 40 | s | 401 | KC2 | CMA-C3A-C4A | -11.03 | 108.25 | 125.04 |
| 40 | i | 310 | KC2 | CMA-C3A-C4A | -11.02 | 108.25 | 125.04 |
| 32 | e | 315 | WVN | C21-C15-C13 | -11.01 | 112.17 | 124.53 |
| 40 | e | 309 | KC2 | CMA-C3A-C4A | -10.98 | 108.31 | 125.04 |
| 38 | h | 311 | II0 | C41-C39-C35 | -10.98 | 111.64 | 127.31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | a | 315 | II0 | C19-C13-C09 | -10.96 | 109.46 | 124.35 |
| 38 | J | 103 | II0 | C41-C39-C35 | -10.94 | 111.69 | 127.31 |
| 38 | b | 301 | II0 | C41-C39-C35 | -10.93 | 111.71 | 127.31 |
| 38 | a | 313 | II0 | C20-C14-C10 | -10.93 | 109.50 | 124.35 |
| 32 | s | 405 | WVN | C04-C09-C05 | -10.92 | 114.38 | 124.85 |
| 32 | K | 103 | WVN | C24-C22-C26 | -10.91 | 107.64 | 122.92 |
| 38 | b | 315 | II0 | C19-C13-C09 | -10.91 | 109.53 | 124.35 |
| 32 | i | 315 | WVN | C21-C15-C13 | -10.90 | 112.29 | 124.53 |
| 38 | c | 313 | II0 | C41-C39-C35 | -10.89 | 111.77 | 127.31 |
| 38 | d | 315 | II0 | C32-C34-C36 | -10.88 | 95.84 | 126.42 |
| 32 | F | 204 | WVN | C21-C15-C13 | -10.88 | 112.31 | 124.53 |
| 32 | M | 101 | WVN | C21-C15-C13 | -10.87 | 112.32 | 124.53 |
| 38 | a | 314 | II0 | C41-C39-C35 | -10.86 | 111.81 | 127.31 |
| 38 | e | 312 | II0 | C20-C14-C10 | -10.85 | 109.61 | 124.35 |
| 38 | g | 319 | II0 | C20-C14-C10 | -10.83 | 109.63 | 124.35 |
| 38 | d | 317 | II0 | C32-C34-C36 | -10.83 | 96.00 | 126.42 |
| 32 | F | 204 | WVN | C29-C26-C22 | -10.82 | 111.86 | 127.31 |
| 32 | K | 103 | WVN | C30-C28-C25 | -10.82 | 111.87 | 127.31 |
| 32 | s | 407 | WVN | C30-C33-C34 | -10.80 | 96.08 | 126.42 |
| 38 | g | 319 | II0 | C19-C13-C09 | -10.79 | 109.69 | 124.35 |
| 32 | B | 847 | WVN | C39-C36-C32 | -10.78 | 111.92 | 127.31 |
| 40 | g | 315 | KC2 | CMA-C3A-C4A | -10.78 | 108.63 | 125.04 |
| 32 | B | 846 | WVN | C19-C22-C26 | -10.78 | 102.41 | 118.94 |
| 32 | I | 101 | WVN | C40-C37-C34 | -10.74 | 111.98 | 127.31 |
| 38 | n | 616 | II0 | C41-C39-C35 | -10.73 | 111.99 | 127.31 |
| 40 | d | 311 | KC2 | CMA-C3A-C4A | -10.72 | 108.71 | 125.04 |
| 38 | i | 316 | II0 | C41-C39-C35 | -10.71 | 112.03 | 127.31 |
| 38 | l | 313 | II0 | C41-C39-C35 | -10.69 | 112.05 | 127.31 |
| 32 | B | 848 | WVN | C04-C09-C05 | -10.68 | 114.61 | 124.85 |
| 32 | B | 849 | WVN | C21-C15-C13 | -10.67 | 112.55 | 124.53 |
| 32 | h | 308 | WVN | C24-C22-C26 | -10.64 | 108.02 | 122.92 |
| 40 | i | 310 | KC2 | C2A-C3A-C4A | -10.64 | 98.59 | 106.49 |
| 32 | B | 846 | WVN | C04-C09-C05 | -10.63 | 114.65 | 124.85 |
| 32 | M | 101 | WVN | C39-C36-C32 | -10.62 | 112.15 | 127.31 |
| 32 | B | 848 | WVN | C39-C36-C32 | -10.62 | 112.16 | 127.31 |
| 38 | m | 618 | II0 | C38-C36-C40 | -10.61 | 108.06 | 122.92 |
| 32 | L | 206 | WVN | C40-C37-C34 | -10.61 | 112.17 | 127.31 |
| 32 | L | 206 | WVN | C35-C32-C36 | -10.60 | 108.07 | 122.92 |
| 38 | g | 318 | II0 | C19-C13-C09 | -10.60 | 109.95 | 124.35 |
| 38 | d | 301 | II0 | C41-C39-C35 | -10.59 | 112.20 | 127.31 |
| 32 | R | 202 | WVN | C39-C36-C32 | -10.59 | 112.20 | 127.31 |
| 32 | I | 101 | WVN | C04-C09-C05 | -10.59 | 114.70 | 124.85 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | i | 319 | II0 | C32-C34-C36 | -10.58 | 96.68 | 126.42 |
| 32 | F | 207 | WVN | C21-C15-C13 | -10.58 | 112.64 | 124.53 |
| 38 | d | 317 | II0 | C42-C40-C36 | -10.58 | 112.21 | 127.31 |
| 29 | b | 311 | CLA | C4A-NA-C1A | 10.58 | 111.46 | 106.71 |
| 32 | l | 316 | WVN | C29-C26-C22 | -10.57 | 112.22 | 127.31 |
| 38 | d | 317 | II0 | C19-C13-C09 | -10.57 | 109.99 | 124.35 |
| 38 | m | 616 | II0 | C41-C39-C35 | -10.54 | 112.26 | 127.31 |
| 32 | L | 201 | WVN | C30-C33-C34 | -10.53 | 96.83 | 126.42 |
| 32 | L | 201 | WVN | C21-C15-C13 | -10.51 | 112.72 | 124.53 |
| 32 | L | 206 | WVN | C27-C25-C28 | -10.50 | 108.21 | 122.92 |
| 40 | i | 318 | KC2 | CMA-C3A-C4A | -10.50 | 109.05 | 125.04 |
| 32 | A | 847 | WVN | C21-C15-C13 | -10.50 | 112.74 | 124.53 |
| 32 | J | 101 | WVN | C24-C22-C26 | -10.49 | 108.22 | 122.92 |
| 32 | l | 302 | WVN | C40-C37-C34 | -10.46 | 112.39 | 127.31 |
| 32 | B | 847 | WVN | C30-C28-C25 | -10.44 | 112.41 | 127.31 |
| 32 | s | 407 | WVN | C40-C37-C34 | -10.44 | 112.41 | 127.31 |
| 38 | h | 311 | II0 | C20-C14-C10 | -10.43 | 110.18 | 124.35 |
| 32 | L | 206 | WVN | C38-C34-C37 | -10.43 | 108.32 | 122.92 |
| 32 | L | 205 | WVN | C39-C36-C32 | -10.40 | 112.47 | 127.31 |
| 32 | L | 205 | WVN | C04-C09-C05 | -10.40 | 114.88 | 124.85 |
| 32 | h | 308 | WVN | C04-C09-C05 | -10.40 | 114.88 | 124.85 |
| 38 | k | 619 | II0 | C41-C39-C35 | -10.40 | 112.47 | 127.31 |
| 40 | g | 314 | KC2 | C2A-C3A-C4A | -10.39 | 98.78 | 106.49 |
| 38 | l | 313 | II0 | C32-C34-C36 | -10.37 | 97.30 | 126.42 |
| 32 | B | 846 | WVN | C30-C33-C34 | -10.35 | 97.34 | 126.42 |
| 32 | B | 847 | WVN | C04-C09-C05 | -10.35 | 114.93 | 124.85 |
| 32 | h | 308 | WVN | C39-C36-C32 | -10.35 | 112.55 | 127.31 |
| 32 | B | 847 | WVN | C24-C22-C26 | -10.33 | 108.45 | 122.92 |
| 38 | d | 317 | II0 | C41-C39-C35 | -10.33 | 112.57 | 127.31 |
| 38 | f | 616 | II0 | C20-C14-C10 | -10.33 | 110.32 | 124.35 |
| 32 | i | 315 | WVN | C29-C26-C22 | -10.29 | 112.62 | 127.31 |
| 32 | B | 849 | WVN | C04-C09-C05 | -10.28 | 114.99 | 124.85 |
| 32 | A | 844 | WVN | C04-C09-C05 | -10.28 | 115.00 | 124.85 |
| 32 | F | 204 | WVN | C40-C37-C34 | -10.27 | 112.65 | 127.31 |
| 38 | k | 615 | II0 | C38-C36-C40 | -10.26 | 108.55 | 122.92 |
| 32 | F | 207 | WVN | C04-C09-C05 | -10.25 | 115.03 | 124.85 |
| 32 | J | 101 | WVN | C30-C28-C25 | -10.22 | 112.73 | 127.31 |
| 38 | m | 615 | II0 | C41-C39-C35 | -10.20 | 112.75 | 127.31 |
| 32 | L | 205 | WVN | C29-C26-C22 | -10.20 | 112.75 | 127.31 |
| 38 | l | 313 | II0 | C42-C40-C36 | -10.20 | 112.75 | 127.31 |
| 38 | k | 619 | II0 | C19-C13-C09 | -10.19 | 110.50 | 124.35 |
| 32 | L | 201 | WVN | C30-C28-C25 | -10.19 | 112.77 | 127.31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | A | 846 | WVN | C30-C33-C34 | -10.19 | 97.80 | 126.42 |
| 32 | L | 206 | WVN | C24-C22-C26 | -10.18 | 108.67 | 122.92 |
| 40 | g | 315 | KC2 | C2A-C3A-C4A | -10.17 | 98.94 | 106.49 |
| 32 | F | 205 | WVN | C29-C31-C32 | 10.17 | 154.98 | 126.42 |
| 32 | J | 101 | WVN | C39-C36-C32 | -10.16 | 112.80 | 127.31 |
| 32 | e | 315 | WVN | C39-C36-C32 | -10.16 | 112.82 | 127.31 |
| 40 | n | 611 | KC2 | C2A-C3A-C4A | -10.15 | 98.96 | 106.49 |
| 32 | I | 101 | WVN | C29-C26-C22 | -10.14 | 112.83 | 127.31 |
| 38 | b | 315 | II0 | C41-C39-C35 | -10.13 | 112.85 | 127.31 |
| 32 | I | 101 | WVN | C24-C22-C26 | -10.13 | 108.74 | 122.92 |
| 38 | m | 618 | II0 | C42-C40-C36 | -10.12 | 112.86 | 127.31 |
| 32 | F | 204 | WVN | C04-C09-C05 | -10.10 | 115.16 | 124.85 |
| 32 | A | 844 | WVN | C21-C15-C13 | -10.10 | 113.19 | 124.53 |
| 38 | m | 618 | II0 | C37-C35-C39 | -10.10 | 108.78 | 122.92 |
| 32 | J | 101 | WVN | C30-C33-C34 | -10.09 | 98.06 | 126.42 |
| 38 | j | 316 | II0 | C41-C39-C35 | -10.09 | 112.91 | 127.31 |
| 38 | b | 314 | II0 | C19-C13-C09 | -10.08 | 110.65 | 124.35 |
| 32 | I | 101 | WVN | C39-C36-C32 | -10.08 | 112.92 | 127.31 |
| 38 | h | 310 | II0 | C19-C13-C09 | -10.07 | 110.66 | 124.35 |
| 32 | I | 101 | WVN | C06-C13-C15 | -10.07 | 108.44 | 122.61 |
| 38 | k | 619 | II0 | C38-C36-C40 | -10.06 | 108.83 | 122.92 |
| 32 | F | 205 | WVN | C30-C28-C25 | -10.05 | 112.97 | 127.31 |
| 38 | k | 615 | II0 | C31-C33-C35 | 10.05 | 154.65 | 126.42 |
| 32 | A | 845 | WVN | C30-C28-C25 | -10.04 | 112.97 | 127.31 |
| 32 | s | 407 | WVN | C35-C32-C36 | -10.04 | 108.86 | 122.92 |
| 32 | I | 101 | WVN | C30-C28-C25 | -10.00 | 113.03 | 127.31 |
| 38 | a | 317 | II0 | C37-C35-C39 | -9.99 | 108.92 | 122.92 |
| 38 | f | 615 | II0 | C41-C39-C35 | -9.99 | 113.06 | 127.31 |
| 40 | g | 314 | KC2 | CMA-C3A-C4A | -9.98 | 109.83 | 125.04 |
| 32 | A | 846 | WVN | C30-C28-C25 | -9.98 | 113.06 | 127.31 |
| 40 | d | 311 | KC2 | C2A-C3A-C4A | -9.97 | 99.09 | 106.49 |
| 32 | A | 854 | WVN | C24-C22-C26 | -9.97 | 108.95 | 122.92 |
| 32 | h | 308 | WVN | C29-C31-C32 | 9.97 | 154.42 | 126.42 |
| 32 | M | 101 | WVN | C29-C31-C32 | 9.94 | 154.34 | 126.42 |
| 38 | j | 301 | II0 | C37-C35-C39 | -9.93 | 109.02 | 122.92 |
| 32 | F | 204 | WVN | C06-C13-C15 | -9.91 | 108.66 | 122.61 |
| 32 | I | 101 | WVN | C30-C33-C34 | -9.89 | 98.62 | 126.42 |
| 38 | j | 301 | II0 | C41-C39-C35 | -9.89 | 113.19 | 127.31 |
| 32 | i | 315 | WVN | C35-C32-C36 | -9.87 | 109.10 | 122.92 |
| 38 | l | 315 | II0 | C37-C35-C39 | -9.87 | 109.10 | 122.92 |
| 32 | l | 302 | WVN | C30-C33-C34 | -9.86 | 98.71 | 126.42 |
| 32 | L | 206 | WVN | C29-C31-C32 | 9.86 | 154.11 | 126.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | h | 311 | II0 | C31-C33-C35 | 9.86 | 154.10 | 126.42 |
| 40 | i | 318 | KC2 | C2A-C3A-C4A | -9.85 | 99.18 | 106.49 |
| 32 | A | 845 | WVN | C29-C31-C32 | 9.85 | 154.09 | 126.42 |
| 40 | k | 611 | KC2 | C2A-C3A-C4A | -9.84 | 99.19 | 106.49 |
| 32 | B | 847 | WVN | C30-C33-C34 | -9.84 | 98.79 | 126.42 |
| 32 | R | 202 | WVN | C29-C26-C22 | -9.83 | 113.28 | 127.31 |
| 32 | J | 101 | WVN | C04-C09-C05 | -9.83 | 115.43 | 124.85 |
| 32 | I | 101 | WVN | C29-C31-C32 | 9.82 | 154.01 | 126.42 |
| 38 | h | 310 | II0 | C20-C14-C10 | -9.81 | 111.01 | 124.35 |
| 38 | e | 313 | II0 | C41-C39-C35 | -9.81 | 113.31 | 127.31 |
| 32 | F | 205 | WVN | C30-C33-C34 | 9.81 | 153.97 | 126.42 |
| 32 | F | 207 | WVN | C24-C22-C26 | -9.81 | 109.19 | 122.92 |
| 32 | s | 405 | WVN | C35-C32-C36 | -9.78 | 109.22 | 122.92 |
| 32 | I | 101 | WVN | C35-C32-C36 | -9.77 | 109.23 | 122.92 |
| 38 | e | 312 | II0 | C31-C33-C35 | 9.77 | 153.87 | 126.42 |
| 32 | M | 101 | WVN | C24-C22-C26 | -9.77 | 109.24 | 122.92 |
| 32 | A | 846 | WVN | C24-C22-C26 | -9.76 | 109.25 | 122.92 |
| 29 | h | 301 | CLA | O1A-CGA-CBA | -9.74 | 85.74 | 123.73 |
| 32 | l | 316 | WVN | C38-C34-C37 | -9.73 | 109.29 | 122.92 |
| 40 | l | 311 | KC2 | C2A-C3A-C4A | -9.73 | 99.27 | 106.49 |
| 32 | F | 207 | WVN | C38-C34-C37 | -9.73 | 109.30 | 122.92 |
| 38 | h | 310 | II0 | C37-C35-C39 | -9.73 | 109.30 | 122.92 |
| 32 | s | 405 | WVN | C02-C05-C09 | -9.72 | 109.52 | 121.47 |
| 32 | A | 854 | WVN | C39-C36-C32 | -9.71 | 113.45 | 127.31 |
| 38 | b | 301 | II0 | C19-C13-C09 | -9.70 | 111.17 | 124.35 |
| 32 | F | 204 | WVN | C30-C33-C34 | -9.70 | 99.17 | 126.42 |
| 32 | F | 207 | WVN | C29-C26-C22 | -9.69 | 113.47 | 127.31 |
| 38 | b | 301 | II0 | C37-C35-C39 | -9.69 | 109.34 | 122.92 |
| 38 | g | 317 | II0 | C37-C35-C39 | -9.69 | 109.35 | 122.92 |
| 38 | i | 316 | II0 | C37-C35-C39 | -9.69 | 109.36 | 122.92 |
| 40 | e | 309 | KC2 | C2A-C3A-C4A | -9.68 | 99.30 | 106.49 |
| 38 | i | 319 | II0 | C37-C35-C39 | -9.68 | 109.36 | 122.92 |
| 38 | k | 616 | II0 | C41-C39-C35 | -9.67 | 113.51 | 127.31 |
| 38 | b | 314 | II0 | C41-C39-C35 | -9.66 | 113.52 | 127.31 |
| 38 | g | 318 | II0 | C41-C39-C35 | -9.66 | 113.52 | 127.31 |
| 32 | A | 846 | WVN | C29-C26-C22 | -9.66 | 113.52 | 127.31 |
| 32 | J | 101 | WVN | C35-C32-C36 | -9.66 | 109.39 | 122.92 |
| 38 | i | 319 | II0 | C42-C40-C36 | -9.66 | 113.53 | 127.31 |
| 38 | n | 616 | II0 | C31-C33-C35 | 9.65 | 153.53 | 126.42 |
| 32 | l | 316 | WVN | C29-C31-C32 | 9.65 | 153.53 | 126.42 |
| 32 | B | 849 | WVN | C38-C34-C37 | -9.64 | 109.42 | 122.92 |
| 32 | L | 201 | WVN | C39-C36-C32 | -9.64 | 113.56 | 127.31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | F | 205 | WVN | C40-C37-C34 | -9.64 | 113.56 | 127.31 |
| 32 | F | 204 | WVN | C27-C25-C28 | -9.63 | 109.44 | 122.92 |
| 32 | e | 315 | WVN | C27-C25-C28 | -9.63 | 109.44 | 122.92 |
| 38 | n | 616 | II0 | C37-C35-C39 | -9.62 | 109.45 | 122.92 |
| 38 | d | 316 | II0 | C37-C35-C39 | -9.62 | 109.45 | 122.92 |
| 38 | a | 317 | II0 | C31-C33-C35 | 9.61 | 153.42 | 126.42 |
| 38 | k | 619 | II0 | C37-C35-C39 | -9.61 | 109.46 | 122.92 |
| 40 | m | 611 | KC2 | C2A-C3A-C4A | -9.61 | 99.36 | 106.49 |
| 32 | s | 405 | WVN | C27-C25-C28 | -9.61 | 109.46 | 122.92 |
| 32 | l | 302 | WVN | C35-C32-C36 | -9.60 | 109.47 | 122.92 |
| 32 | A | 845 | WVN | C35-C32-C36 | -9.60 | 109.47 | 122.92 |
| 32 | K | 103 | WVN | C35-C32-C36 | -9.59 | 109.48 | 122.92 |
| 38 | d | 301 | II0 | C20-C14-C10 | -9.59 | 111.31 | 124.35 |
| 38 | g | 319 | II0 | C37-C35-C39 | -9.59 | 109.49 | 122.92 |
| 38 | h | 309 | II0 | C31-C33-C35 | 9.58 | 153.34 | 126.42 |
| 38 | f | 618 | II0 | C37-C35-C39 | -9.58 | 109.51 | 122.92 |
| 38 | f | 615 | II0 | C19-C13-C09 | -9.57 | 111.34 | 124.35 |
| 38 | i | 313 | II0 | C37-C35-C39 | -9.57 | 109.52 | 122.92 |
| 38 | k | 615 | II0 | C37-C35-C39 | -9.55 | 109.54 | 122.92 |
| 32 | R | 202 | WVN | C02-C05-C09 | -9.55 | 109.72 | 121.47 |
| 32 | A | 844 | WVN | C38-C34-C37 | -9.54 | 109.56 | 122.92 |
| 38 | h | 309 | II0 | C37-C35-C39 | -9.53 | 109.57 | 122.92 |
| 32 | i | 315 | WVN | C29-C31-C32 | 9.53 | 153.20 | 126.42 |
| 38 | i | 316 | II0 | C19-C13-C09 | -9.53 | 111.41 | 124.35 |
| 38 | i | 314 | II0 | C41-C39-C35 | -9.52 | 113.72 | 127.31 |
| 38 | a | 315 | II0 | C20-C14-C10 | -9.52 | 111.41 | 124.35 |
| 38 | e | 312 | II0 | C19-C13-C09 | -9.50 | 111.44 | 124.35 |
| 32 | A | 845 | WVN | C27-C25-C28 | -9.49 | 109.63 | 122.92 |
| 38 | e | 314 | II0 | C20-C14-C10 | -9.49 | 111.46 | 124.35 |
| 32 | B | 846 | WVN | C38-C34-C37 | -9.48 | 109.64 | 122.92 |
| 38 | d | 301 | II0 | C38-C36-C40 | -9.48 | 109.65 | 122.92 |
| 38 | c | 313 | II0 | C20-C14-C10 | -9.46 | 111.49 | 124.35 |
| 38 | d | 317 | II0 | C37-C35-C39 | -9.46 | 109.67 | 122.92 |
| 32 | L | 206 | WVN | C29-C26-C22 | -9.45 | 113.82 | 127.31 |
| 32 | F | 207 | WVN | C29-C31-C32 | 9.45 | 152.96 | 126.42 |
| 38 | j | 315 | II0 | C37-C35-C39 | -9.44 | 109.69 | 122.92 |
| 38 | g | 317 | II0 | C19-C13-C09 | -9.44 | 111.52 | 124.35 |
| 38 | g | 317 | II0 | C20-C14-C10 | -9.44 | 111.52 | 124.35 |
| 38 | f | 614 | II0 | C20-C14-C10 | -9.43 | 111.53 | 124.35 |
| 40 | c | 310 | KC2 | C2A-C3A-C4A | -9.42 | 99.50 | 106.49 |
| 32 | A | 844 | WVN | C35-C32-C36 | -9.42 | 109.73 | 122.92 |
| 32 | B | 849 | WVN | C33-C34-C37 | -9.42 | 104.49 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | K | 103 | WVN | C27-C25-C28 | -9.41 | 109.74 | 122.92 |
| 38 | j | 315 | II0 | C19-C13-C09 | -9.40 | 111.58 | 124.35 |
| 38 | l | 313 | II0 | C20-C14-C10 | -9.40 | 111.58 | 124.35 |
| 38 | n | 618 | II0 | C37-C35-C39 | -9.39 | 109.76 | 122.92 |
| 32 | M | 101 | WVN | C30-C28-C25 | -9.39 | 113.91 | 127.31 |
| 38 | i | 314 | II0 | C42-C40-C36 | -9.39 | 113.91 | 127.31 |
| 32 | F | 207 | WVN | C27-C25-C28 | -9.39 | 109.77 | 122.92 |
| 32 | B | 849 | WVN | C35-C32-C36 | -9.38 | 109.78 | 122.92 |
| 32 | e | 315 | WVN | C14-C15-C13 | -9.37 | 109.13 | 122.73 |
| 32 | B | 846 | WVN | C24-C22-C26 | -9.37 | 109.80 | 122.92 |
| 32 | l | 316 | WVN | C30-C33-C34 | -9.37 | 100.09 | 126.42 |
| 38 | l | 313 | II0 | C37-C35-C39 | -9.36 | 109.81 | 122.92 |
| 38 | m | 614 | II0 | C20-C14-C10 | -9.36 | 111.63 | 124.35 |
| 38 | i | 314 | II0 | C32-C34-C36 | -9.34 | 100.17 | 126.42 |
| 38 | i | 313 | II0 | C31-C33-C35 | 9.34 | 152.64 | 126.42 |
| 32 | A | 844 | WVN | C29-C26-C22 | -9.33 | 113.99 | 127.31 |
| 32 | R | 201 | WVN | C33-C34-C37 | -9.33 | 104.62 | 118.94 |
| 32 | s | 407 | WVN | C30-C28-C25 | -9.33 | 114.00 | 127.31 |
| 38 | b | 301 | II0 | C31-C33-C35 | 9.32 | 152.59 | 126.42 |
| 32 | L | 205 | WVN | C35-C32-C36 | -9.31 | 109.88 | 122.92 |
| 32 | R | 201 | WVN | C29-C31-C32 | 9.31 | 152.58 | 126.42 |
| 32 | A | 847 | WVN | C04-C09-C05 | -9.31 | 115.92 | 124.85 |
| 38 | g | 319 | II0 | C31-C33-C35 | 9.31 | 152.57 | 126.42 |
| 38 | J | 103 | II0 | C31-C33-C35 | 9.31 | 152.57 | 126.42 |
| 32 | M | 101 | WVN | C27-C25-C28 | -9.30 | 109.89 | 122.92 |
| 32 | L | 206 | WVN | C24-C22-C19 | -9.30 | 103.42 | 118.08 |
| 32 | B | 847 | WVN | C35-C32-C36 | -9.28 | 109.92 | 122.92 |
| 32 | B | 848 | WVN | C19-C22-C26 | -9.28 | 104.70 | 118.94 |
| 38 | m | 615 | II0 | C34-C36-C40 | -9.28 | 104.70 | 118.94 |
| 32 | e | 315 | WVN | C35-C32-C36 | -9.27 | 109.93 | 122.92 |
| 32 | h | 308 | WVN | C35-C32-C36 | -9.26 | 109.95 | 122.92 |
| 38 | d | 315 | II0 | C38-C36-C40 | -9.26 | 109.95 | 122.92 |
| 40 | g | 313 | KC2 | C2A-C3A-C4A | -9.26 | 99.62 | 106.49 |
| 32 | l | 316 | WVN | C04-C09-C05 | -9.25 | 115.98 | 124.85 |
| 38 | j | 301 | II0 | C31-C33-C35 | 9.25 | 152.41 | 126.42 |
| 32 | B | 848 | WVN | C38-C34-C37 | -9.25 | 109.96 | 122.92 |
| 32 | e | 315 | WVN | C38-C34-C37 | -9.25 | 109.96 | 122.92 |
| 38 | n | 616 | II0 | C03-C09-C13 | -9.25 | 109.57 | 122.63 |
| 38 | k | 620 | II0 | C37-C35-C39 | -9.25 | 109.97 | 122.92 |
| 38 | l | 314 | II0 | C19-C13-C09 | -9.23 | 111.81 | 124.35 |
| 38 | d | 317 | II0 | C31-C33-C35 | 9.23 | 152.34 | 126.42 |
| 32 | A | 846 | WVN | C35-C32-C36 | -9.23 | 110.00 | 122.92 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | m | 616 | II0 | C19-C13-C09 | -9.22 | 111.81 | 124.35 |
| 32 | L | 205 | WVN | C38-C34-C37 | -9.21 | 110.02 | 122.92 |
| 38 | b | 314 | II0 | C31-C33-C35 | 9.20 | 152.27 | 126.42 |
| 38 | k | 616 | II0 | C19-C13-C09 | -9.20 | 111.84 | 124.35 |
| 32 | M | 101 | WVN | C35-C32-C36 | -9.19 | 110.05 | 122.92 |
| 38 | k | 619 | II0 | C31-C33-C35 | 9.19 | 152.24 | 126.42 |
| 32 | F | 205 | WVN | C35-C32-C36 | -9.19 | 110.05 | 122.92 |
| 38 | e | 314 | II0 | C37-C35-C39 | -9.19 | 110.05 | 122.92 |
| 32 | A | 846 | WVN | C19-C22-C26 | -9.18 | 104.85 | 118.94 |
| 38 | J | 103 | II0 | C37-C35-C39 | -9.18 | 110.06 | 122.92 |
| 32 | L | 201 | WVN | C29-C31-C32 | 9.18 | 152.19 | 126.42 |
| 32 | B | 846 | WVN | C39-C36-C32 | -9.18 | 114.22 | 127.31 |
| 32 | e | 315 | WVN | C29-C31-C32 | 9.18 | 152.19 | 126.42 |
| 38 | n | 615 | II0 | C19-C13-C09 | -9.16 | 111.90 | 124.35 |
| 38 | e | 313 | II0 | C42-C40-C36 | -9.14 | 114.26 | 127.31 |
| 32 | l | 302 | WVN | C24-C22-C26 | -9.14 | 110.13 | 122.92 |
| 32 | F | 207 | WVN | C35-C32-C36 | -9.13 | 110.13 | 122.92 |
| 32 | A | 854 | WVN | C29-C31-C32 | 9.12 | 152.04 | 126.42 |
| 38 | d | 315 | II0 | C37-C35-C39 | -9.12 | 110.14 | 122.92 |
| 32 | h | 308 | WVN | C29-C26-C22 | -9.12 | 114.29 | 127.31 |
| 32 | F | 205 | WVN | C29-C26-C22 | -9.12 | 114.30 | 127.31 |
| 40 | f | 611 | KC2 | C2A-C3A-C4A | -9.12 | 99.72 | 106.49 |
| 32 | A | 845 | WVN | C38-C34-C37 | -9.11 | 110.17 | 122.92 |
| 38 | f | 615 | II0 | C34-C36-C40 | -9.09 | 104.99 | 118.94 |
| 38 | m | 614 | II0 | C37-C35-C39 | -9.09 | 110.19 | 122.92 |
| 38 | a | 317 | II0 | C38-C36-C40 | -9.08 | 110.20 | 122.92 |
| 32 | B | 846 | WVN | C29-C26-C22 | -9.08 | 114.35 | 127.31 |
| 32 | A | 844 | WVN | C29-C31-C32 | 9.08 | 151.93 | 126.42 |
| 38 | l | 314 | II0 | C37-C35-C39 | -9.08 | 110.20 | 122.92 |
| 32 | L | 201 | WVN | C35-C32-C36 | -9.08 | 110.21 | 122.92 |
| 38 | m | 616 | II0 | C31-C33-C35 | 9.07 | 151.90 | 126.42 |
| 32 | A | 854 | WVN | C35-C32-C36 | -9.06 | 110.23 | 122.92 |
| 38 | i | 316 | II0 | C31-C33-C35 | 9.06 | 151.87 | 126.42 |
| 32 | s | 407 | WVN | C24-C22-C26 | -9.05 | 110.24 | 122.92 |
| 32 | s | 407 | WVN | C27-C25-C28 | -9.05 | 110.25 | 122.92 |
| 38 | i | 314 | II0 | C37-C35-C39 | -9.04 | 110.26 | 122.92 |
| 38 | m | 614 | II0 | C38-C36-C40 | -9.04 | 110.26 | 122.92 |
| 32 | i | 315 | WVN | C24-C22-C26 | -9.03 | 110.27 | 122.92 |
| 32 | A | 847 | WVN | C29-C26-C22 | -9.02 | 114.44 | 127.31 |
| 32 | i | 315 | WVN | C38-C34-C37 | -9.02 | 110.29 | 122.92 |
| 32 | K | 103 | WVN | C29-C31-C32 | 9.01 | 151.74 | 126.42 |
| 38 | j | 301 | II0 | C38-C36-C40 | -9.01 | 110.30 | 122.92 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | s | 405 | WVN | C29-C26-C22 | -9.01 | 114.45 | 127.31 |
| 32 | B | 848 | WVN | C29-C31-C32 | 9.01 | 151.72 | 126.42 |
| 32 | l | 302 | WVN | C29-C31-C32 | 9.00 | 151.70 | 126.42 |
| 38 | b | 315 | II0 | C20-C14-C10 | -9.00 | 112.12 | 124.35 |
| 38 | k | 616 | II0 | C31-C33-C35 | 9.00 | 151.70 | 126.42 |
| 38 | a | 315 | II0 | C37-C35-C39 | -9.00 | 110.32 | 122.92 |
| 32 | L | 201 | WVN | C29-C26-C22 | -9.00 | 114.47 | 127.31 |
| 38 | c | 313 | II0 | C37-C35-C39 | -8.99 | 110.32 | 122.92 |
| 32 | B | 848 | WVN | C24-C22-C26 | -8.99 | 110.33 | 122.92 |
| 32 | F | 204 | WVN | C39-C36-C32 | -8.99 | 114.48 | 127.31 |
| 32 | L | 201 | WVN | C38-C34-C37 | -8.99 | 110.33 | 122.92 |
| 38 | j | 316 | II0 | C34-C36-C40 | -8.98 | 105.16 | 118.94 |
| 32 | i | 315 | WVN | C33-C34-C37 | -8.97 | 105.17 | 118.94 |
| 32 | A | 846 | WVN | C38-C34-C37 | -8.97 | 110.35 | 122.92 |
| 38 | j | 315 | II0 | C31-C33-C35 | 8.96 | 151.59 | 126.42 |
| 32 | L | 205 | WVN | C29-C31-C32 | 8.95 | 151.57 | 126.42 |
| 32 | R | 202 | WVN | C27-C25-C28 | -8.95 | 110.38 | 122.92 |
| 38 | h | 310 | II0 | C34-C36-C40 | -8.95 | 105.21 | 118.94 |
| 32 | h | 308 | WVN | C27-C25-C28 | -8.94 | 110.39 | 122.92 |
| 38 | n | 618 | II0 | C31-C33-C35 | 8.94 | 151.54 | 126.42 |
| 38 | m | 616 | II0 | C37-C35-C39 | -8.94 | 110.41 | 122.92 |
| 32 | R | 201 | WVN | C35-C32-C36 | -8.93 | 110.41 | 122.92 |
| 38 | d | 317 | II0 | C38-C36-C40 | -8.93 | 110.42 | 122.92 |
| 38 | n | 616 | II0 | C19-C13-C09 | -8.92 | 112.23 | 124.35 |
| 32 | h | 308 | WVN | C24-C22-C19 | -8.92 | 104.02 | 118.08 |
| 38 | f | 614 | II0 | C37-C35-C39 | -8.91 | 110.44 | 122.92 |
| 38 | d | 315 | II0 | C19-C13-C09 | -8.91 | 112.25 | 124.35 |
| 32 | A | 847 | WVN | C27-C25-C28 | -8.90 | 110.45 | 122.92 |
| 32 | R | 201 | WVN | C04-C09-C05 | -8.89 | 116.32 | 124.85 |
| 40 | s | 401 | KC2 | C2A-C3A-C4A | -8.89 | 99.89 | 106.49 |
| 38 | a | 314 | II0 | C37-C35-C39 | -8.88 | 110.48 | 122.92 |
| 32 | A | 854 | WVN | C29-C26-C22 | -8.88 | 114.64 | 127.31 |
| 38 | h | 311 | II0 | C38-C36-C40 | -8.88 | 110.49 | 122.92 |
| 32 | h | 308 | WVN | C38-C34-C37 | -8.86 | 110.52 | 122.92 |
| 32 | l | 316 | WVN | C35-C32-C36 | -8.85 | 110.53 | 122.92 |
| 40 | j | 312 | KC2 | C2A-C3A-C4A | -8.85 | 99.92 | 106.49 |
| 32 | s | 405 | WVN | C24-C22-C26 | -8.84 | 110.54 | 122.92 |
| 32 | B | 848 | WVN | C33-C34-C37 | -8.83 | 105.40 | 118.94 |
| 38 | d | 301 | II0 | C42-C40-C36 | -8.82 | 114.73 | 127.31 |
| 38 | h | 310 | II0 | C38-C36-C40 | -8.81 | 110.58 | 122.92 |
| 32 | R | 202 | WVN | C38-C34-C37 | -8.80 | 110.59 | 122.92 |
| 32 | I | 101 | WVN | C27-C25-C28 | -8.80 | 110.60 | 122.92 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | J | 101 | WVN | C38-C34-C37 | -8.79 | 110.60 | 122.92 |
| 32 | s | 407 | WVN | C38-C34-C37 | -8.79 | 110.61 | 122.92 |
| 38 | a | 313 | II0 | C37-C35-C39 | -8.79 | 110.61 | 122.92 |
| 32 | s | 407 | WVN | C29-C26-C22 | -8.77 | 114.79 | 127.31 |
| 38 | d | 301 | II0 | C31-C33-C35 | 8.77 | 151.04 | 126.42 |
| 32 | F | 204 | WVN | C30-C28-C25 | -8.76 | 114.80 | 127.31 |
| 32 | R | 201 | WVN | C29-C26-C22 | -8.76 | 114.80 | 127.31 |
| 32 | l | 316 | WVN | C24-C22-C26 | -8.76 | 110.65 | 122.92 |
| 32 | R | 201 | WVN | C27-C25-C28 | -8.76 | 110.65 | 122.92 |
| 32 | s | 405 | WVN | C38-C34-C37 | -8.76 | 110.66 | 122.92 |
| 32 | B | 846 | WVN | C27-C25-C28 | -8.75 | 110.66 | 122.92 |
| 32 | B | 849 | WVN | C29-C26-C22 | -8.74 | 114.83 | 127.31 |
| 38 | b | 314 | II0 | C34-C36-C40 | -8.73 | 105.54 | 118.94 |
| 38 | n | 618 | II0 | C19-C13-C09 | -8.73 | 112.48 | 124.35 |
| 32 | A | 845 | WVN | C02-C05-C09 | -8.73 | 110.73 | 121.47 |
| 32 | R | 202 | WVN | C29-C31-C32 | 8.72 | 150.91 | 126.42 |
| 38 | e | 314 | II0 | C38-C36-C40 | -8.71 | 110.72 | 122.92 |
| 38 | h | 310 | II0 | C31-C33-C35 | 8.71 | 150.88 | 126.42 |
| 38 | f | 616 | II0 | C37-C35-C39 | -8.70 | 110.73 | 122.92 |
| 32 | l | 316 | WVN | C39-C36-C32 | -8.69 | 114.91 | 127.31 |
| 38 | n | 618 | II0 | C38-C36-C40 | -8.69 | 110.76 | 122.92 |
| 38 | i | 314 | II0 | C20-C14-C10 | -8.68 | 112.55 | 124.35 |
| 32 | l | 302 | WVN | C29-C26-C22 | -8.68 | 114.93 | 127.31 |
| 32 | A | 847 | WVN | C35-C32-C36 | -8.67 | 110.78 | 122.92 |
| 38 | e | 313 | II0 | C31-C33-C35 | 8.66 | 150.76 | 126.42 |
| 32 | F | 205 | WVN | C24-C22-C26 | -8.66 | 110.79 | 122.92 |
| 38 | l | 315 | II0 | C38-C36-C40 | -8.66 | 110.79 | 122.92 |
| 38 | m | 618 | II0 | C31-C33-C35 | 8.66 | 150.73 | 126.42 |
| 32 | F | 205 | WVN | C27-C25-C28 | -8.66 | 110.80 | 122.92 |
| 38 | m | 614 | II0 | C19-C13-C09 | -8.65 | 112.59 | 124.35 |
| 32 | R | 202 | WVN | C35-C32-C36 | -8.65 | 110.80 | 122.92 |
| 32 | B | 846 | WVN | C35-C32-C36 | -8.65 | 110.80 | 122.92 |
| 32 | B | 848 | WVN | C35-C32-C36 | -8.65 | 110.81 | 122.92 |
| 38 | j | 301 | II0 | C19-C13-C09 | -8.65 | 112.60 | 124.35 |
| 38 | b | 314 | II0 | C38-C36-C40 | -8.63 | 110.83 | 122.92 |
| 32 | L | 201 | WVN | C27-C25-C28 | -8.62 | 110.84 | 122.92 |
| 38 | d | 316 | II0 | C19-C13-C09 | -8.62 | 112.63 | 124.35 |
| 38 | i | 316 | II0 | C20-C14-C10 | -8.62 | 112.64 | 124.35 |
| 32 | B | 847 | WVN | C38-C34-C37 | -8.62 | 110.85 | 122.92 |
| 38 | m | 618 | II0 | C41-C39-C35 | -8.61 | 115.02 | 127.31 |
| 32 | B | 849 | WVN | C27-C25-C28 | -8.61 | 110.86 | 122.92 |
| 38 | j | 315 | II0 | C34-C36-C40 | -8.61 | 105.73 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 40 | s | 401 | KC2 | CMA-C3A-C2A | -8.61 | 107.23 | 128.30 |
| 38 | k | 616 | II0 | C37-C35-C39 | -8.60 | 110.88 | 122.92 |
| 38 | m | 614 | II0 | C34-C36-C40 | -8.59 | 105.75 | 118.94 |
| 32 | J | 101 | WVN | C27-C25-C28 | -8.57 | 110.92 | 122.92 |
| 32 | s | 407 | WVN | C29-C31-C32 | 8.57 | 150.48 | 126.42 |
| 40 | l | 311 | KC2 | CMA-C3A-C4A | -8.56 | 112.00 | 125.04 |
| 38 | d | 301 | II0 | C37-C35-C39 | -8.55 | 110.95 | 122.92 |
| 38 | e | 312 | II0 | C42-C40-C36 | -8.54 | 115.12 | 127.31 |
| 38 | m | 618 | II0 | C19-C13-C09 | -8.54 | 112.74 | 124.35 |
| 38 | l | 313 | II0 | C31-C33-C35 | 8.54 | 150.40 | 126.42 |
| 32 | B | 847 | WVN | C02-C05-C09 | -8.54 | 110.97 | 121.47 |
| 38 | k | 620 | II0 | C38-C36-C40 | -8.54 | 110.97 | 122.92 |
| 32 | B | 847 | WVN | C27-C25-C28 | -8.53 | 110.97 | 122.92 |
| 32 | s | 405 | WVN | C29-C31-C32 | 8.53 | 150.37 | 126.42 |
| 38 | m | 616 | II0 | C20-C14-C10 | -8.52 | 112.78 | 124.35 |
| 38 | d | 316 | II0 | C31-C33-C35 | 8.51 | 150.32 | 126.42 |
| 38 | b | 315 | II0 | C34-C36-C40 | -8.51 | 105.88 | 118.94 |
| 38 | f | 616 | II0 | C19-C13-C09 | -8.50 | 112.79 | 124.35 |
| 32 | A | 845 | WVN | C19-C22-C26 | -8.50 | 105.90 | 118.94 |
| 32 | A | 844 | WVN | C27-C25-C28 | -8.50 | 111.02 | 122.92 |
| 38 | f | 618 | II0 | C38-C36-C40 | -8.50 | 111.02 | 122.92 |
| 38 | e | 313 | II0 | C37-C35-C39 | -8.49 | 111.02 | 122.92 |
| 32 | L | 205 | WVN | C30-C28-C25 | -8.49 | 115.19 | 127.31 |
| 38 | n | 615 | II0 | C37-C35-C39 | -8.49 | 111.03 | 122.92 |
| 32 | e | 315 | WVN | C24-C22-C26 | -8.49 | 111.03 | 122.92 |
| 32 | F | 207 | WVN | C30-C28-C25 | -8.48 | 115.20 | 127.31 |
| 38 | i | 319 | II0 | C19-C13-C09 | -8.48 | 112.82 | 124.35 |
| 38 | n | 615 | II0 | C38-C36-C40 | -8.48 | 111.04 | 122.92 |
| 38 | i | 319 | II0 | C20-C14-C10 | -8.48 | 112.83 | 124.35 |
| 32 | F | 207 | WVN | C40-C37-C34 | -8.47 | 115.22 | 127.31 |
| 38 | j | 301 | II0 | C20-C14-C10 | -8.47 | 112.84 | 124.35 |
| 32 | R | 202 | WVN | C19-C22-C26 | -8.47 | 105.95 | 118.94 |
| 38 | e | 312 | II0 | C41-C39-C35 | -8.47 | 115.23 | 127.31 |
| 32 | A | 854 | WVN | C27-C25-C28 | -8.46 | 111.07 | 122.92 |
| 38 | e | 312 | II0 | C38-C36-C40 | -8.46 | 111.07 | 122.92 |
| 32 | L | 205 | WVN | C27-C25-C28 | -8.46 | 111.07 | 122.92 |
| 38 | e | 313 | II0 | C32-C34-C36 | -8.45 | 102.67 | 126.42 |
| 32 | s | 407 | WVN | C19-C22-C26 | -8.44 | 105.99 | 118.94 |
| 38 | d | 301 | II0 | C34-C36-C40 | -8.43 | 106.00 | 118.94 |
| 32 | L | 206 | WVN | C30-C28-C25 | -8.42 | 115.29 | 127.31 |
| 32 | B | 848 | WVN | C27-C25-C28 | -8.41 | 111.14 | 122.92 |
| 38 | i | 319 | II0 | C31-C33-C35 | 8.40 | 150.01 | 126.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | l | 314 | II0 | C20-C14-C10 | -8.40 | 112.94 | 124.35 |
| 38 | i | 319 | II0 | C38-C36-C40 | -8.39 | 111.17 | 122.92 |
| 32 | l | 302 | WVN | C19-C22-C26 | -8.38 | 106.09 | 118.94 |
| 32 | A | 854 | WVN | C38-C34-C37 | -8.37 | 111.19 | 122.92 |
| 32 | M | 101 | WVN | C24-C22-C19 | -8.36 | 104.91 | 118.08 |
| 38 | b | 315 | II0 | C31-C33-C35 | 8.36 | 149.89 | 126.42 |
| 38 | i | 316 | II0 | C38-C36-C40 | -8.35 | 111.22 | 122.92 |
| 38 | a | 317 | II0 | C19-C13-C09 | -8.35 | 113.00 | 124.35 |
| 32 | A | 844 | WVN | C40-C37-C34 | -8.34 | 115.40 | 127.31 |
| 32 | L | 205 | WVN | C24-C22-C26 | -8.34 | 111.24 | 122.92 |
| 38 | k | 620 | II0 | C31-C33-C35 | 8.34 | 149.85 | 126.42 |
| 38 | n | 615 | II0 | C34-C36-C40 | -8.34 | 106.14 | 118.94 |
| 38 | b | 301 | II0 | C38-C36-C40 | -8.33 | 111.25 | 122.92 |
| 38 | n | 616 | II0 | C20-C14-C10 | -8.33 | 113.02 | 124.35 |
| 32 | i | 315 | WVN | C23-C25-C28 | -8.32 | 106.17 | 118.94 |
| 38 | i | 316 | II0 | C42-C40-C36 | -8.31 | 115.45 | 127.31 |
| 32 | R | 201 | WVN | C24-C22-C26 | -8.31 | 111.28 | 122.92 |
| 38 | d | 316 | II0 | C38-C36-C40 | -8.31 | 111.28 | 122.92 |
| 32 | A | 847 | WVN | C38-C34-C37 | -8.31 | 111.28 | 122.92 |
| 32 | I | 101 | WVN | C14-C15-C13 | -8.30 | 110.67 | 122.73 |
| 32 | J | 101 | WVN | C29-C31-C32 | 8.28 | 149.69 | 126.42 |
| 32 | A | 854 | WVN | C24-C22-C19 | -8.28 | 105.03 | 118.08 |
| 32 | B | 846 | WVN | C02-C05-C09 | -8.28 | 111.28 | 121.47 |
| 32 | s | 405 | WVN | C19-C22-C26 | -8.28 | 106.23 | 118.94 |
| 38 | h | 309 | II0 | C42-C40-C36 | -8.28 | 115.50 | 127.31 |
| 32 | B | 849 | WVN | C29-C31-C32 | 8.26 | 149.62 | 126.42 |
| 38 | l | 315 | II0 | C20-C14-C10 | -8.25 | 113.13 | 124.35 |
| 38 | h | 311 | II0 | C34-C36-C40 | -8.24 | 106.29 | 118.94 |
| 32 | K | 103 | WVN | C39-C36-C32 | -8.24 | 115.55 | 127.31 |
| 40 | j | 312 | KC2 | C1A-C2A-C3A | -8.24 | 100.57 | 107.11 |
| 38 | l | 313 | II0 | C38-C36-C40 | -8.23 | 111.40 | 122.92 |
| 32 | I | 101 | WVN | C38-C34-C37 | -8.22 | 111.41 | 122.92 |
| 38 | f | 615 | II0 | C38-C36-C40 | -8.22 | 111.41 | 122.92 |
| 32 | R | 201 | WVN | C38-C34-C37 | -8.22 | 111.41 | 122.92 |
| 32 | l | 316 | WVN | C30-C28-C25 | -8.21 | 115.59 | 127.31 |
| 38 | m | 615 | II0 | C20-C14-C10 | -8.21 | 113.19 | 124.35 |
| 32 | F | 204 | WVN | C29-C31-C32 | 8.21 | 149.49 | 126.42 |
| 32 | F | 204 | WVN | C14-C15-C13 | -8.21 | 110.82 | 122.73 |
| 38 | a | 315 | II0 | C38-C36-C40 | -8.19 | 111.45 | 122.92 |
| 38 | m | 616 | II0 | C38-C36-C40 | -8.19 | 111.45 | 122.92 |
| 32 | A | 854 | WVN | C33-C34-C37 | -8.19 | 106.38 | 118.94 |
| 38 | n | 615 | II0 | C31-C33-C35 | 8.19 | 149.41 | 126.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | f | 614 | II0 | C38-C36-C40 | -8.18 | 111.46 | 122.92 |
| 38 | e | 313 | II0 | C20-C14-C10 | -8.18 | 113.24 | 124.35 |
| 38 | g | 318 | II0 | C20-C14-C10 | -8.17 | 113.25 | 124.35 |
| 38 | b | 315 | II0 | C38-C36-C40 | -8.16 | 111.49 | 122.92 |
| 38 | J | 103 | II0 | C38-C36-C40 | -8.16 | 111.49 | 122.92 |
| 32 | B | 848 | WVN | C29-C26-C22 | -8.15 | 115.67 | 127.31 |
| 38 | m | 615 | II0 | C38-C36-C40 | -8.15 | 111.51 | 122.92 |
| 38 | b | 301 | II0 | C20-C14-C10 | -8.14 | 113.28 | 124.35 |
| 32 | L | 206 | WVN | C04-C09-C05 | -8.14 | 117.05 | 124.85 |
| 38 | c | 313 | II0 | C31-C33-C35 | 8.13 | 149.27 | 126.42 |
| 38 | i | 313 | II0 | C38-C36-C40 | -8.13 | 111.54 | 122.92 |
| 32 | A | 846 | WVN | C29-C31-C32 | 8.13 | 149.24 | 126.42 |
| 29 | d | 304 | CLA | C4A-NA-C1A | 8.12 | 110.36 | 106.71 |
| 32 | e | 315 | WVN | C30-C28-C25 | -8.12 | 115.72 | 127.31 |
| 32 | A | 844 | WVN | C24-C22-C26 | -8.12 | 111.55 | 122.92 |
| 38 | g | 319 | II0 | C38-C36-C40 | -8.12 | 111.55 | 122.92 |
| 38 | j | 316 | II0 | C20-C14-C10 | -8.11 | 113.33 | 124.35 |
| 38 | j | 315 | II0 | C38-C36-C40 | -8.11 | 111.57 | 122.92 |
| 38 | b | 301 | II0 | C34-C36-C40 | -8.10 | 106.51 | 118.94 |
| 38 | d | 317 | II0 | C20-C14-C10 | -8.10 | 113.34 | 124.35 |
| 32 | l | 302 | WVN | C02-C05-C09 | -8.09 | 111.51 | 121.47 |
| 32 | R | 201 | WVN | C30-C28-C25 | -8.09 | 115.76 | 127.31 |
| 32 | F | 204 | WVN | C19-C22-C26 | -8.09 | 106.53 | 118.94 |
| 38 | f | 616 | II0 | C38-C36-C40 | -8.08 | 111.60 | 122.92 |
| 32 | A | 847 | WVN | C24-C22-C26 | -8.08 | 111.61 | 122.92 |
| 38 | j | 316 | II0 | C38-C36-C40 | -8.08 | 111.61 | 122.92 |
| 32 | K | 103 | WVN | C06-C13-C15 | -8.07 | 111.24 | 122.61 |
| 32 | B | 846 | WVN | C29-C31-C32 | 8.07 | 149.09 | 126.42 |
| 29 | f | 604 | CLA | C4A-NA-C1A | 8.07 | 110.33 | 106.71 |
| 38 | f | 615 | II0 | C37-C35-C39 | -8.07 | 111.62 | 122.92 |
| 38 | f | 616 | II0 | C31-C33-C35 | 8.06 | 149.06 | 126.42 |
| 38 | e | 314 | II0 | C19-C13-C09 | -8.06 | 113.39 | 124.35 |
| 32 | L | 205 | WVN | C40-C37-C34 | -8.06 | 115.81 | 127.31 |
| 32 | l | 302 | WVN | C38-C34-C37 | -8.06 | 111.64 | 122.92 |
| 38 | d | 316 | II0 | C20-C14-C10 | -8.06 | 113.40 | 124.35 |
| 38 | k | 616 | II0 | C20-C14-C10 | -8.05 | 113.41 | 124.35 |
| 38 | a | 317 | II0 | C20-C14-C10 | -8.05 | 113.42 | 124.35 |
| 38 | g | 317 | II0 | C38-C36-C40 | -8.04 | 111.66 | 122.92 |
| 38 | m | 618 | II0 | C20-C14-C10 | -8.04 | 113.42 | 124.35 |
| 32 | A | 846 | WVN | C27-C25-C28 | -8.04 | 111.66 | 122.92 |
| 29 | A | 836 | CLA | C4A-NA-C1A | 8.03 | 110.32 | 106.71 |
| 38 | h | 311 | II0 | C37-C35-C39 | -8.03 | 111.67 | 122.92 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | A | 854 | WVN | C19-C22-C26 | -8.02 | 106.63 | 118.94 |
| 38 | e | 314 | II0 | C31-C33-C35 | 8.02 | 148.93 | 126.42 |
| 38 | f | 616 | II0 | C04-C10-C14 | -8.01 | 111.32 | 122.63 |
| 38 | i | 314 | II0 | C19-C13-C09 | -8.00 | 113.47 | 124.35 |
| 38 | f | 615 | II0 | C31-C33-C35 | 8.00 | 148.90 | 126.42 |
| 38 | f | 615 | II0 | C20-C14-C10 | -8.00 | 113.47 | 124.35 |
| 29 | B | 808 | CLA | C4A-NA-C1A | 8.00 | 110.30 | 106.71 |
| 38 | l | 315 | II0 | C42-C40-C36 | -8.00 | 115.90 | 127.31 |
| 38 | e | 312 | II0 | C37-C35-C39 | -7.99 | 111.72 | 122.92 |
| 38 | a | 315 | II0 | C31-C33-C35 | 7.99 | 148.87 | 126.42 |
| 38 | a | 314 | II0 | C19-C13-C09 | -7.98 | 113.50 | 124.35 |
| 38 | k | 615 | II0 | C42-C40-C36 | -7.98 | 115.92 | 127.31 |
| 38 | h | 311 | II0 | C19-C13-C09 | -7.98 | 113.51 | 124.35 |
| 38 | f | 618 | II0 | C31-C33-C35 | 7.97 | 148.82 | 126.42 |
| 32 | e | 315 | WVN | C06-C13-C15 | -7.97 | 111.39 | 122.61 |
| 38 | f | 618 | II0 | C19-C13-C09 | -7.96 | 113.53 | 124.35 |
| 38 | d | 315 | II0 | C31-C33-C35 | 7.96 | 148.77 | 126.42 |
| 38 | i | 314 | II0 | C19-C13-C11 | -7.95 | 99.62 | 114.36 |
| 38 | m | 614 | II0 | C31-C33-C35 | 7.95 | 148.76 | 126.42 |
| 38 | a | 313 | II0 | C19-C13-C09 | -7.95 | 113.55 | 124.35 |
| 38 | g | 318 | II0 | C34-C36-C40 | -7.94 | 106.76 | 118.94 |
| 30 | B | 843 | PQN | C11-C12-C13 | -7.94 | 113.58 | 126.79 |
| 32 | B | 846 | WVN | C35-C32-C31 | -7.93 | 105.58 | 118.08 |
| 32 | A | 845 | WVN | C40-C37-C34 | -7.93 | 116.00 | 127.31 |
| 38 | i | 313 | II0 | C20-C14-C10 | -7.93 | 113.58 | 124.35 |
| 32 | e | 315 | WVN | C33-C34-C37 | -7.92 | 106.78 | 118.94 |
| 29 | b | 305 | CLA | C4A-NA-C1A | 7.92 | 110.27 | 106.71 |
| 32 | B | 848 | WVN | C40-C37-C34 | -7.91 | 116.02 | 127.31 |
| 32 | L | 201 | WVN | C24-C22-C26 | -7.89 | 111.86 | 122.92 |
| 38 | l | 314 | II0 | C42-C40-C36 | -7.89 | 116.05 | 127.31 |
| 38 | a | 313 | II0 | C31-C33-C35 | 7.89 | 148.58 | 126.42 |
| 38 | e | 314 | II0 | C42-C40-C36 | -7.89 | 116.05 | 127.31 |
| 40 | c | 310 | KC2 | CMA-C3A-C2A | -7.88 | 109.02 | 128.30 |
| 32 | A | 845 | WVN | C29-C26-C22 | -7.87 | 116.08 | 127.31 |
| 38 | a | 315 | II0 | C42-C40-C36 | -7.87 | 116.08 | 127.31 |
| 32 | B | 847 | WVN | C29-C31-C32 | 7.87 | 148.52 | 126.42 |
| 38 | j | 316 | II0 | C37-C35-C39 | -7.87 | 111.90 | 122.92 |
| 32 | M | 101 | WVN | C38-C34-C37 | -7.86 | 111.91 | 122.92 |
| 38 | n | 618 | II0 | C20-C14-C10 | -7.85 | 113.68 | 124.35 |
| 38 | n | 616 | II0 | C38-C36-C40 | -7.85 | 111.92 | 122.92 |
| 38 | f | 618 | II0 | C20-C14-C10 | -7.85 | 113.68 | 124.35 |
| 38 | a | 315 | II0 | C34-C36-C40 | -7.85 | 106.90 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | i | 315 | WVN | C06-C13-C15 | -7.84 | 111.57 | 122.61 |
| 38 | f | 614 | II0 | C37-C35-C33 | -7.84 | 105.73 | 118.08 |
| 38 | a | 313 | II0 | C38-C36-C40 | -7.82 | 111.97 | 122.92 |
| 38 | m | 615 | II0 | C31-C33-C35 | 7.81 | 148.37 | 126.42 |
| 38 | h | 309 | II0 | C19-C13-C09 | -7.81 | 113.73 | 124.35 |
| 32 | F | 205 | WVN | C38-C34-C37 | -7.81 | 111.99 | 122.92 |
| 38 | g | 318 | II0 | C38-C36-C40 | -7.80 | 112.00 | 122.92 |
| 32 | J | 101 | WVN | C06-C13-C15 | -7.80 | 111.63 | 122.61 |
| 38 | i | 319 | II0 | C04-C10-C14 | -7.79 | 111.63 | 122.63 |
| 32 | B | 848 | WVN | C30-C28-C25 | -7.79 | 116.19 | 127.31 |
| 38 | e | 313 | II0 | C38-C36-C40 | -7.79 | 112.01 | 122.92 |
| 38 | a | 314 | II0 | C37-C35-C33 | -7.79 | 105.81 | 118.08 |
| 38 | a | 317 | II0 | C42-C40-C36 | -7.79 | 116.20 | 127.31 |
| 29 | A | 815 | CLA | C4A-NA-C1A | 7.78 | 110.20 | 106.71 |
| 29 | B | 805 | CLA | C4A-NA-C1A | 7.78 | 110.20 | 106.71 |
| 38 | c | 313 | II0 | C38-C36-C40 | -7.78 | 112.02 | 122.92 |
| 32 | B | 849 | WVN | C23-C25-C28 | -7.77 | 107.02 | 118.94 |
| 38 | b | 314 | II0 | C37-C35-C39 | -7.77 | 112.04 | 122.92 |
| 30 | A | 841 | PQN | C11-C12-C13 | -7.77 | 113.86 | 126.79 |
| 38 | j | 301 | II0 | C34-C36-C40 | -7.76 | 107.03 | 118.94 |
| 29 | O | 206 | CLA | C4A-NA-C1A | 7.76 | 110.19 | 106.71 |
| 32 | J | 101 | WVN | C19-C22-C26 | -7.75 | 107.05 | 118.94 |
| 38 | a | 314 | II0 | C38-C36-C40 | -7.75 | 112.07 | 122.92 |
| 38 | n | 616 | II0 | C42-C40-C36 | -7.75 | 116.25 | 127.31 |
| 32 | s | 405 | WVN | C40-C37-C34 | -7.74 | 116.26 | 127.31 |
| 32 | K | 103 | WVN | C40-C37-C34 | -7.74 | 116.26 | 127.31 |
| 32 | A | 846 | WVN | C27-C25-C23 | -7.73 | 105.89 | 118.08 |
| 38 | i | 313 | II0 | C42-C40-C36 | -7.71 | 116.30 | 127.31 |
| 32 | l | 302 | WVN | C27-C25-C28 | -7.71 | 112.13 | 122.92 |
| 38 | m | 615 | II0 | C19-C13-C09 | -7.70 | 113.88 | 124.35 |
| 32 | M | 101 | WVN | C33-C34-C37 | -7.69 | 107.14 | 118.94 |
| 29 | k | 605 | CLA | C4A-NA-C1A | 7.69 | 110.16 | 106.71 |
| 29 | A | 804 | CLA | C4A-NA-C1A | 7.69 | 110.16 | 106.71 |
| 32 | B | 849 | WVN | C40-C37-C34 | -7.67 | 116.37 | 127.31 |
| 32 | B | 848 | WVN | C02-C05-C09 | -7.67 | 112.03 | 121.47 |
| 38 | h | 309 | II0 | C38-C36-C40 | -7.67 | 112.18 | 122.92 |
| 32 | B | 848 | WVN | C23-C25-C28 | -7.67 | 107.18 | 118.94 |
| 38 | i | 314 | II0 | C31-C33-C35 | 7.66 | 147.93 | 126.42 |
| 32 | e | 315 | WVN | C29-C26-C22 | -7.66 | 116.38 | 127.31 |
| 38 | k | 616 | II0 | C38-C36-C40 | -7.66 | 112.19 | 122.92 |
| 32 | F | 204 | WVN | C35-C32-C36 | -7.65 | 112.20 | 122.92 |
| 32 | R | 201 | WVN | C19-C22-C26 | -7.65 | 107.20 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | b | 313 | CLA | C4A-NA-C1A | 7.64 | 110.14 | 106.71 |
| 29 | B | 834 | CLA | C4A-NA-C1A | 7.64 | 110.14 | 106.71 |
| 38 | l | 315 | II0 | C31-C33-C35 | 7.64 | 147.88 | 126.42 |
| 38 | g | 318 | II0 | C31-C33-C35 | 7.64 | 147.87 | 126.42 |
| 32 | e | 315 | WVN | C19-C22-C26 | -7.63 | 107.23 | 118.94 |
| 29 | A | 851 | CLA | C4A-NA-C1A | 7.63 | 110.14 | 106.71 |
| 29 | e | 304 | CLA | C4A-NA-C1A | 7.63 | 110.14 | 106.71 |
| 38 | j | 316 | II0 | C31-C33-C35 | 7.62 | 147.83 | 126.42 |
| 40 | n | 611 | KC2 | C2B-C1B-NB | 7.62 | 115.72 | 110.10 |
| 38 | k | 619 | II0 | C42-C40-C36 | -7.61 | 116.44 | 127.31 |
| 38 | d | 317 | II0 | C03-C09-C13 | -7.60 | 111.90 | 122.63 |
| 29 | i | 305 | CLA | C4A-NA-C1A | 7.60 | 110.12 | 106.71 |
| 40 | f | 611 | KC2 | CMA-C3A-C2A | -7.58 | 109.74 | 128.30 |
| 32 | A | 854 | WVN | C23-C25-C28 | -7.57 | 107.32 | 118.94 |
| 29 | j | 306 | CLA | C4A-NA-C1A | 7.56 | 110.11 | 106.71 |
| 38 | k | 620 | II0 | C34-C36-C40 | -7.56 | 107.34 | 118.94 |
| 32 | i | 315 | WVN | C27-C25-C28 | -7.55 | 112.35 | 122.92 |
| 40 | g | 313 | KC2 | C1A-C2A-C3A | -7.54 | 101.13 | 107.11 |
| 32 | A | 844 | WVN | C30-C28-C25 | -7.54 | 116.55 | 127.31 |
| 29 | B | 822 | CLA | C4A-NA-C1A | 7.53 | 110.09 | 106.71 |
| 29 | B | 807 | CLA | C4A-NA-C1A | 7.52 | 110.09 | 106.71 |
| 40 | l | 311 | KC2 | C1A-C2A-C3A | -7.52 | 101.15 | 107.11 |
| 38 | J | 103 | II0 | C42-C40-C36 | -7.50 | 116.61 | 127.31 |
| 32 | l | 302 | WVN | C23-C25-C28 | -7.49 | 107.44 | 118.94 |
| 29 | s | 403 | CLA | C4A-NA-C1A | 7.49 | 110.08 | 106.71 |
| 29 | a | 311 | CLA | C4A-NA-C1A | 7.48 | 110.07 | 106.71 |
| 32 | B | 849 | WVN | C24-C22-C26 | -7.48 | 112.44 | 122.92 |
| 38 | b | 315 | II0 | C04-C10-C14 | -7.48 | 112.07 | 122.63 |
| 29 | c | 304 | CLA | C4A-NA-C1A | 7.47 | 110.06 | 106.71 |
| 32 | K | 103 | WVN | C14-C15-C13 | -7.46 | 111.90 | 122.73 |
| 32 | B | 847 | WVN | C19-C22-C26 | -7.46 | 107.49 | 118.94 |
| 29 | B | 804 | CLA | C4A-NA-C1A | 7.46 | 110.06 | 106.71 |
| 38 | k | 616 | II0 | C34-C36-C40 | -7.45 | 107.50 | 118.94 |
| 38 | f | 616 | II0 | C34-C36-C40 | -7.45 | 107.50 | 118.94 |
| 38 | b | 315 | II0 | C37-C35-C39 | -7.45 | 112.48 | 122.92 |
| 40 | i | 318 | KC2 | C2B-C1B-NB | 7.45 | 115.59 | 110.10 |
| 40 | k | 611 | KC2 | C1A-C2A-C3A | -7.44 | 101.21 | 107.11 |
| 32 | K | 103 | WVN | C33-C34-C37 | -7.42 | 107.55 | 118.94 |
| 38 | m | 615 | II0 | C37-C35-C39 | -7.42 | 112.53 | 122.92 |
| 32 | h | 308 | WVN | C40-C37-C34 | -7.39 | 116.76 | 127.31 |
| 38 | k | 620 | II0 | C42-C40-C36 | -7.38 | 116.78 | 127.31 |
| 29 | f | 612 | CLA | C4A-NA-C1A | 7.38 | 110.02 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 40 | j | 312 | KC2 | CMA-C3A-C2A | -7.38 | 110.24 | 128.30 |
| 32 | s | 405 | WVN | C06-C13-C15 | -7.38 | 112.22 | 122.61 |
| 38 | h | 310 | II0 | C42-C40-C36 | -7.37 | 116.79 | 127.31 |
| 32 | h | 308 | WVN | C30-C28-C25 | -7.37 | 116.79 | 127.31 |
| 40 | f | 611 | KC2 | C1A-C2A-C3A | -7.37 | 101.27 | 107.11 |
| 29 | c | 311 | CLA | C4A-NA-C1A | 7.36 | 110.02 | 106.71 |
| 38 | m | 616 | II0 | C42-C40-C36 | -7.36 | 116.80 | 127.31 |
| 38 | j | 301 | II0 | C03-C09-C13 | -7.36 | 112.24 | 122.63 |
| 32 | A | 845 | WVN | C33-C34-C37 | -7.35 | 107.66 | 118.94 |
| 32 | B | 846 | WVN | C27-C25-C23 | -7.35 | 106.50 | 118.08 |
| 38 | l | 314 | II0 | C03-C09-C13 | -7.34 | 112.27 | 122.63 |
| 38 | f | 618 | II0 | C34-C36-C40 | -7.34 | 107.68 | 118.94 |
| 40 | g | 315 | KC2 | C2B-C1B-NB | 7.34 | 115.51 | 110.10 |
| 40 | i | 310 | KC2 | C2B-C1B-NB | 7.34 | 115.51 | 110.10 |
| 32 | I | 101 | WVN | C24-C22-C19 | -7.34 | 106.52 | 118.08 |
| 32 | s | 407 | WVN | C02-C05-C09 | -7.33 | 112.44 | 121.47 |
| 40 | e | 309 | KC2 | CMA-C3A-C2A | -7.33 | 110.36 | 128.30 |
| 38 | e | 314 | II0 | C34-C36-C40 | -7.32 | 107.70 | 118.94 |
| 32 | K | 103 | WVN | C19-C22-C26 | -7.32 | 107.71 | 118.94 |
| 38 | b | 314 | II0 | C42-C40-C36 | -7.32 | 116.87 | 127.31 |
| 32 | K | 103 | WVN | C38-C34-C37 | -7.31 | 112.69 | 122.92 |
| 29 | B | 813 | CLA | C4A-NA-C1A | 7.30 | 109.99 | 106.71 |
| 38 | a | 314 | II0 | C04-C10-C14 | -7.30 | 112.33 | 122.63 |
| 32 | R | 202 | WVN | C33-C34-C37 | -7.30 | 107.74 | 118.94 |
| 38 | j | 301 | II0 | C42-C40-C36 | -7.30 | 116.90 | 127.31 |
| 29 | h | 303 | CLA | C4A-NA-C1A | 7.29 | 109.98 | 106.71 |
| 29 | n | 610 | CLA | C4A-NA-C1A | 7.29 | 109.98 | 106.71 |
| 32 | A | 847 | WVN | C29-C31-C32 | 7.28 | 146.86 | 126.42 |
| 32 | A | 847 | WVN | C33-C34-C37 | -7.28 | 107.77 | 118.94 |
| 29 | a | 302 | CLA | C4A-NA-C1A | 7.28 | 109.98 | 106.71 |
| 32 | R | 202 | WVN | C06-C13-C15 | -7.27 | 112.37 | 122.61 |
| 29 | K | 101 | CLA | C4A-NA-C1A | 7.27 | 109.97 | 106.71 |
| 29 | B | 838 | CLA | C4A-NA-C1A | 7.27 | 109.97 | 106.71 |
| 32 | l | 302 | WVN | C30-C28-C25 | -7.27 | 116.94 | 127.31 |
| 40 | c | 310 | KC2 | C2B-C1B-NB | 7.26 | 115.46 | 110.10 |
| 29 | k | 610 | CLA | C4A-NA-C1A | 7.26 | 109.97 | 106.71 |
| 38 | c | 313 | II0 | C37-C35-C33 | -7.25 | 106.66 | 118.08 |
| 38 | n | 616 | II0 | C34-C36-C40 | -7.24 | 107.83 | 118.94 |
| 29 | B | 837 | CLA | C4A-NA-C1A | 7.24 | 109.96 | 106.71 |
| 40 | c | 310 | KC2 | C1A-C2A-C3A | -7.24 | 101.37 | 107.11 |
| 40 | n | 611 | KC2 | C1A-C2A-C3A | -7.23 | 101.37 | 107.11 |
| 29 | a | 305 | CLA | C4A-NA-C1A | 7.23 | 109.96 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | l | 312 | CLA | C4A-NA-C1A | 7.23 | 109.96 | 106.71 |
| 38 | f | 615 | II0 | C03-C09-C13 | -7.23 | 112.43 | 122.63 |
| 40 | s | 401 | KC2 | C1A-C2A-C3A | -7.22 | 101.38 | 107.11 |
| 32 | M | 101 | WVN | C02-C05-C09 | -7.22 | 112.59 | 121.47 |
| 38 | l | 315 | II0 | C34-C36-C40 | -7.22 | 107.86 | 118.94 |
| 40 | s | 404 | KC2 | CBA-CAA-C2A | -7.21 | 97.79 | 125.27 |
| 38 | m | 614 | II0 | C37-C35-C33 | -7.20 | 106.73 | 118.08 |
| 29 | g | 311 | CLA | C4A-NA-C1A | 7.20 | 109.94 | 106.71 |
| 40 | d | 311 | KC2 | C1A-C2A-C3A | -7.20 | 101.40 | 107.11 |
| 38 | g | 317 | II0 | C31-C33-C35 | 7.18 | 146.60 | 126.42 |
| 29 | e | 310 | CLA | C4A-NA-C1A | 7.18 | 109.93 | 106.71 |
| 32 | l | 316 | WVN | C27-C25-C23 | -7.18 | 106.77 | 118.08 |
| 29 | l | 306 | CLA | C4A-NA-C1A | 7.18 | 109.93 | 106.71 |
| 29 | B | 814 | CLA | C4A-NA-C1A | 7.18 | 109.93 | 106.71 |
| 32 | A | 847 | WVN | C23-C25-C28 | -7.17 | 107.93 | 118.94 |
| 40 | d | 311 | KC2 | CMA-C3A-C2A | -7.17 | 110.74 | 128.30 |
| 29 | A | 830 | CLA | C4A-NA-C1A | 7.17 | 109.93 | 106.71 |
| 32 | h | 308 | WVN | C33-C34-C37 | -7.17 | 107.94 | 118.94 |
| 32 | J | 101 | WVN | C02-C05-C09 | -7.16 | 112.66 | 121.47 |
| 38 | d | 316 | II0 | C34-C36-C40 | -7.16 | 107.96 | 118.94 |
| 38 | b | 314 | II0 | C03-C09-C13 | -7.16 | 112.53 | 122.63 |
| 40 | g | 313 | KC2 | CMA-C3A-C2A | -7.16 | 110.78 | 128.30 |
| 29 | B | 832 | CLA | C4A-NA-C1A | 7.16 | 109.92 | 106.71 |
| 40 | m | 611 | KC2 | C1A-C2A-C3A | -7.15 | 101.44 | 107.11 |
| 38 | k | 615 | II0 | C37-C35-C33 | -7.15 | 106.81 | 118.08 |
| 29 | b | 308 | CLA | C4A-NA-C1A | 7.15 | 109.92 | 106.71 |
| 32 | R | 202 | WVN | C30-C28-C25 | -7.15 | 117.11 | 127.31 |
| 38 | i | 314 | II0 | C38-C36-C40 | -7.14 | 112.92 | 122.92 |
| 29 | A | 835 | CLA | C4A-NA-C1A | 7.14 | 109.92 | 106.71 |
| 38 | j | 315 | II0 | C42-C40-C36 | -7.14 | 117.12 | 127.31 |
| 29 | A | 838 | CLA | C4A-NA-C1A | 7.14 | 109.92 | 106.71 |
| 29 | A | 816 | CLA | C4A-NA-C1A | 7.13 | 109.91 | 106.71 |
| 29 | L | 204 | CLA | C4A-NA-C1A | 7.13 | 109.91 | 106.71 |
| 29 | b | 302 | CLA | C4A-NA-C1A | 7.13 | 109.91 | 106.71 |
| 29 | L | 203 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 29 | h | 307 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 29 | g | 302 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 38 | h | 311 | II0 | C42-C40-C36 | -7.12 | 117.14 | 127.31 |
| 29 | m | 610 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 38 | g | 317 | II0 | C42-C40-C36 | -7.12 | 117.15 | 127.31 |
| 29 | A | 823 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 38 | m | 616 | II0 | C34-C36-C40 | -7.12 | 108.02 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | k | 619 | II0 | C34-C36-C40 | -7.11 | 108.03 | 118.94 |
| 38 | c | 313 | II0 | C34-C36-C40 | -7.11 | 108.04 | 118.94 |
| 32 | B | 849 | WVN | C19-C22-C26 | -7.10 | 108.04 | 118.94 |
| 40 | m | 611 | KC2 | C2B-C1B-NB | 7.10 | 115.34 | 110.10 |
| 29 | A | 837 | CLA | C4A-NA-C1A | 7.10 | 109.90 | 106.71 |
| 40 | m | 611 | KC2 | CMA-C3A-C2A | -7.10 | 110.91 | 128.30 |
| 29 | B | 840 | CLA | C4A-NA-C1A | 7.10 | 109.90 | 106.71 |
| 40 | i | 310 | KC2 | CMA-C3A-C2A | -7.09 | 110.93 | 128.30 |
| 29 | O | 202 | CLA | C4A-NA-C1A | 7.09 | 109.89 | 106.71 |
| 32 | F | 204 | WVN | C02-C05-C09 | -7.09 | 112.74 | 121.47 |
| 32 | A | 847 | WVN | C30-C28-C25 | -7.09 | 117.19 | 127.31 |
| 29 | A | 833 | CLA | C4A-NA-C1A | 7.09 | 109.89 | 106.71 |
| 29 | i | 302 | CLA | C4A-NA-C1A | 7.09 | 109.89 | 106.71 |
| 40 | g | 314 | KC2 | C1A-C2A-C3A | -7.09 | 101.49 | 107.11 |
| 29 | F | 203 | CLA | C4A-NA-C1A | 7.08 | 109.89 | 106.71 |
| 29 | b | 312 | CLA | C4A-NA-C1A | 7.08 | 109.89 | 106.71 |
| 29 | l | 307 | CLA | C4A-NA-C1A | 7.07 | 109.89 | 106.71 |
| 29 | j | 313 | CLA | C4A-NA-C1A | 7.07 | 109.89 | 106.71 |
| 38 | m | 618 | II0 | C34-C36-C40 | -7.07 | 108.09 | 118.94 |
| 29 | f | 605 | CLA | C4A-NA-C1A | 7.06 | 109.88 | 106.71 |
| 29 | A | 807 | CLA | C4A-NA-C1A | 7.06 | 109.88 | 106.71 |
| 29 | i | 312 | CLA | C4A-NA-C1A | 7.06 | 109.88 | 106.71 |
| 32 | A | 846 | WVN | C35-C32-C31 | -7.05 | 106.96 | 118.08 |
| 38 | m | 614 | II0 | C42-C40-C36 | -7.05 | 117.24 | 127.31 |
| 32 | e | 315 | WVN | C23-C25-C28 | -7.05 | 108.13 | 118.94 |
| 32 | e | 315 | WVN | C40-C37-C34 | -7.04 | 117.26 | 127.31 |
| 29 | a | 310 | CLA | C4A-NA-C1A | 7.04 | 109.87 | 106.71 |
| 29 | f | 609 | CLA | C4A-NA-C1A | 7.04 | 109.87 | 106.71 |
| 38 | e | 312 | II0 | C37-C35-C33 | -7.04 | 106.99 | 118.08 |
| 29 | Q | 302 | CLA | C4A-NA-C1A | 7.03 | 109.87 | 106.71 |
| 32 | F | 207 | WVN | C35-C32-C31 | -7.03 | 107.00 | 118.08 |
| 38 | l | 313 | II0 | C03-C09-C13 | -7.03 | 112.71 | 122.63 |
| 29 | a | 309 | CLA | C4A-NA-C1A | 7.02 | 109.86 | 106.71 |
| 32 | A | 854 | WVN | C40-C37-C34 | -7.02 | 117.30 | 127.31 |
| 29 | m | 613 | CLA | C4A-NA-C1A | 7.01 | 109.86 | 106.71 |
| 38 | k | 616 | II0 | C37-C35-C33 | -7.01 | 107.03 | 118.08 |
| 29 | l | 309 | CLA | C4A-NA-C1A | 7.01 | 109.86 | 106.71 |
| 29 | B | 803 | CLA | C4A-NA-C1A | 7.01 | 109.86 | 106.71 |
| 40 | i | 318 | KC2 | C1A-C2A-C3A | -7.00 | 101.55 | 107.11 |
| 32 | R | 201 | WVN | C23-C25-C28 | -7.00 | 108.19 | 118.94 |
| 29 | f | 601 | CLA | C4A-NA-C1A | 7.00 | 109.85 | 106.71 |
| 38 | a | 313 | II0 | C34-C36-C40 | -6.99 | 108.21 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | l | 313 | II0 | C37-C35-C33 | -6.99 | 107.06 | 118.08 |
| 29 | L | 202 | CLA | C4A-NA-C1A | 6.99 | 109.85 | 106.71 |
| 29 | l | 301 | CLA | C4A-NA-C1A | 6.99 | 109.85 | 106.71 |
| 29 | i | 306 | CLA | C4A-NA-C1A | 6.99 | 109.85 | 106.71 |
| 32 | A | 847 | WVN | C06-C13-C15 | -6.98 | 112.78 | 122.61 |
| 29 | f | 602 | CLA | C4A-NA-C1A | 6.98 | 109.84 | 106.71 |
| 29 | k | 604 | CLA | C4A-NA-C1A | 6.98 | 109.84 | 106.71 |
| 29 | A | 831 | CLA | C4A-NA-C1A | 6.97 | 109.84 | 106.71 |
| 29 | a | 307 | CLA | C4A-NA-C1A | 6.96 | 109.83 | 106.71 |
| 38 | l | 314 | II0 | C37-C35-C33 | -6.96 | 107.12 | 118.08 |
| 29 | j | 302 | CLA | C4A-NA-C1A | 6.96 | 109.83 | 106.71 |
| 38 | g | 319 | II0 | C34-C36-C40 | -6.95 | 108.28 | 118.94 |
| 29 | m | 605 | CLA | C4A-NA-C1A | 6.95 | 109.83 | 106.71 |
| 32 | F | 205 | WVN | C24-C22-C19 | -6.95 | 107.13 | 118.08 |
| 29 | B | 825 | CLA | C4A-NA-C1A | 6.94 | 109.83 | 106.71 |
| 29 | g | 312 | CLA | C4A-NA-C1A | 6.94 | 109.83 | 106.71 |
| 40 | d | 311 | KC2 | C2B-C1B-NB | 6.94 | 115.22 | 110.10 |
| 40 | l | 311 | KC2 | CMA-C3A-C2A | -6.94 | 111.32 | 128.30 |
| 40 | e | 309 | KC2 | C1A-C2A-C3A | -6.93 | 101.61 | 107.11 |
| 32 | s | 405 | WVN | C35-C32-C31 | -6.93 | 107.15 | 118.08 |
| 38 | f | 618 | II0 | C03-C09-C13 | -6.93 | 112.85 | 122.63 |
| 29 | n | 604 | CLA | C4A-NA-C1A | 6.91 | 109.81 | 106.71 |
| 32 | A | 844 | WVN | C33-C34-C37 | -6.90 | 108.35 | 118.94 |
| 29 | B | 820 | CLA | C4A-NA-C1A | 6.90 | 109.81 | 106.71 |
| 29 | h | 302 | CLA | C4A-NA-C1A | 6.90 | 109.81 | 106.71 |
| 29 | f | 610 | CLA | C4A-NA-C1A | 6.90 | 109.81 | 106.71 |
| 32 | L | 205 | WVN | C33-C34-C37 | -6.89 | 108.37 | 118.94 |
| 38 | f | 618 | II0 | C42-C40-C36 | -6.89 | 117.48 | 127.31 |
| 29 | A | 814 | CLA | C4A-NA-C1A | 6.88 | 109.80 | 106.71 |
| 38 | h | 310 | II0 | C04-C10-C14 | -6.88 | 112.92 | 122.63 |
| 38 | f | 616 | II0 | C42-C40-C36 | -6.88 | 117.50 | 127.31 |
| 32 | M | 101 | WVN | C40-C37-C34 | -6.87 | 117.50 | 127.31 |
| 29 | A | 824 | CLA | C4A-NA-C1A | 6.87 | 109.79 | 106.71 |
| 29 | g | 323 | CLA | C4A-NA-C1A | 6.87 | 109.79 | 106.71 |
| 38 | a | 317 | II0 | C34-C36-C40 | -6.86 | 108.41 | 118.94 |
| 40 | s | 404 | KC2 | C1A-C2A-C3A | -6.86 | 101.67 | 107.11 |
| 40 | i | 310 | KC2 | C3A-C4A-NA | 6.86 | 118.06 | 110.57 |
| 29 | i | 309 | CLA | C4A-NA-C1A | 6.86 | 109.79 | 106.71 |
| 29 | i | 308 | CLA | C4A-NA-C1A | 6.86 | 109.79 | 106.71 |
| 38 | f | 614 | II0 | C42-C40-C36 | -6.86 | 117.52 | 127.31 |
| 32 | h | 308 | WVN | C27-C25-C23 | -6.86 | 107.27 | 118.08 |
| 29 | c | 301 | CLA | C4A-NA-C1A | 6.86 | 109.79 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | b | 307 | CLA | C4A-NA-C1A | 6.86 | 109.79 | 106.71 |
| 29 | l | 304 | CLA | C4A-NA-C1A | 6.85 | 109.79 | 106.71 |
| 29 | e | 301 | CLA | C4A-NA-C1A | 6.85 | 109.78 | 106.71 |
| 29 | A | 826 | CLA | C4A-NA-C1A | 6.85 | 109.78 | 106.71 |
| 29 | g | 305 | CLA | C4A-NA-C1A | 6.85 | 109.78 | 106.71 |
| 32 | A | 847 | WVN | C35-C32-C31 | -6.84 | 107.30 | 118.08 |
| 29 | L | 207 | CLA | C4A-NA-C1A | 6.84 | 109.78 | 106.71 |
| 29 | g | 306 | CLA | C4A-NA-C1A | 6.83 | 109.78 | 106.71 |
| 29 | A | 827 | CLA | C4A-NA-C1A | 6.83 | 109.78 | 106.71 |
| 32 | B | 849 | WVN | C35-C32-C31 | -6.83 | 107.32 | 118.08 |
| 29 | A | 805 | CLA | C4A-NA-C1A | 6.82 | 109.77 | 106.71 |
| 38 | i | 313 | II0 | C03-C09-C13 | -6.82 | 113.00 | 122.63 |
| 29 | e | 308 | CLA | C4A-NA-C1A | 6.82 | 109.77 | 106.71 |
| 38 | g | 318 | II0 | C03-C09-C13 | -6.81 | 113.01 | 122.63 |
| 29 | l | 303 | CLA | C4A-NA-C1A | 6.81 | 109.77 | 106.71 |
| 29 | e | 305 | CLA | C4A-NA-C1A | 6.81 | 109.77 | 106.71 |
| 38 | g | 317 | II0 | C34-C36-C40 | -6.81 | 108.50 | 118.94 |
| 29 | B | 831 | CLA | C4A-NA-C1A | 6.81 | 109.77 | 106.71 |
| 40 | j | 312 | KC2 | C2B-C1B-NB | 6.80 | 115.12 | 110.10 |
| 29 | A | 821 | CLA | C4A-NA-C1A | 6.80 | 109.76 | 106.71 |
| 32 | i | 315 | WVN | C40-C37-C34 | -6.80 | 117.60 | 127.31 |
| 29 | B | 835 | CLA | C4A-NA-C1A | 6.80 | 109.76 | 106.71 |
| 29 | g | 307 | CLA | C4A-NA-C1A | 6.80 | 109.76 | 106.71 |
| 38 | a | 314 | II0 | C31-C33-C35 | 6.80 | 145.51 | 126.42 |
| 38 | h | 309 | II0 | C30-C32-C34 | -6.80 | 111.93 | 125.34 |
| 40 | s | 404 | KC2 | O2D-CGD-CBD | 6.79 | 123.33 | 111.27 |
| 29 | m | 609 | CLA | C4A-NA-C1A | 6.79 | 109.76 | 106.71 |
| 38 | n | 618 | II0 | C42-C40-C36 | -6.78 | 117.63 | 127.31 |
| 29 | d | 305 | CLA | C4A-NA-C1A | 6.78 | 109.75 | 106.71 |
| 29 | B | 809 | CLA | C4A-NA-C1A | 6.78 | 109.75 | 106.71 |
| 40 | n | 611 | KC2 | CMA-C3A-C2A | -6.77 | 111.72 | 128.30 |
| 32 | J | 101 | WVN | C35-C32-C31 | -6.77 | 107.40 | 118.08 |
| 29 | l | 305 | CLA | C4A-NA-C1A | 6.77 | 109.75 | 106.71 |
| 40 | i | 318 | KC2 | CMA-C3A-C2A | -6.77 | 111.73 | 128.30 |
| 29 | g | 309 | CLA | C4A-NA-C1A | 6.76 | 109.75 | 106.71 |
| 40 | n | 611 | KC2 | C3A-C4A-NA | 6.76 | 117.95 | 110.57 |
| 29 | k | 602 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 29 | h | 305 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 29 | d | 318 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 32 | F | 207 | WVN | C27-C25-C23 | -6.75 | 107.45 | 118.08 |
| 29 | A | 808 | CLA | C4A-NA-C1A | 6.74 | 109.74 | 106.71 |
| 32 | F | 204 | WVN | C35-C32-C31 | -6.74 | 107.45 | 118.08 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 806 | CLA | C4A-NA-C1A | 6.74 | 109.74 | 106.71 |
| 32 | l | 302 | WVN | C27-C25-C23 | -6.74 | 107.46 | 118.08 |
| 29 | f | 603 | CLA | C4A-NA-C1A | 6.74 | 109.74 | 106.71 |
| 38 | f | 616 | II0 | C16-C03-C09 | 6.74 | 121.17 | 110.47 |
| 38 | c | 313 | II0 | C42-C40-C36 | -6.73 | 117.70 | 127.31 |
| 38 | f | 614 | II0 | C31-C33-C35 | 6.73 | 145.33 | 126.42 |
| 29 | j | 311 | CLA | C4A-NA-C1A | 6.73 | 109.73 | 106.71 |
| 38 | i | 319 | II0 | C03-C09-C13 | -6.73 | 113.13 | 122.63 |
| 38 | i | 313 | II0 | C34-C36-C40 | -6.73 | 108.62 | 118.94 |
| 32 | A | 846 | WVN | C06-C13-C15 | -6.72 | 113.14 | 122.61 |
| 32 | A | 844 | WVN | C23-C25-C28 | -6.72 | 108.62 | 118.94 |
| 29 | d | 306 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 29 | d | 302 | CLA | C4A-NA-C1A | 6.72 | 109.72 | 106.71 |
| 38 | g | 319 | II0 | C42-C40-C36 | -6.71 | 117.73 | 127.31 |
| 32 | F | 204 | WVN | C38-C34-C37 | -6.71 | 113.53 | 122.92 |
| 29 | b | 309 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 29 | i | 311 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 32 | A | 847 | WVN | C24-C22-C19 | -6.71 | 107.51 | 118.08 |
| 40 | i | 310 | KC2 | C1A-C2A-C3A | -6.70 | 101.79 | 107.11 |
| 32 | l | 316 | WVN | C27-C25-C28 | -6.70 | 113.54 | 122.92 |
| 32 | L | 206 | WVN | C27-C25-C23 | -6.70 | 107.52 | 118.08 |
| 29 | B | 824 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 29 | m | 604 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 38 | k | 616 | II0 | C03-C09-C13 | -6.69 | 113.19 | 122.63 |
| 29 | l | 310 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 29 | j | 305 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 29 | n | 606 | CLA | C4A-NA-C1A | 6.68 | 109.71 | 106.71 |
| 40 | k | 611 | KC2 | C2B-C1B-NB | 6.68 | 115.02 | 110.10 |
| 38 | a | 313 | II0 | C42-C40-C36 | -6.67 | 117.79 | 127.31 |
| 38 | J | 103 | II0 | C34-C36-C40 | -6.67 | 108.71 | 118.94 |
| 32 | h | 308 | WVN | C23-C25-C28 | -6.66 | 108.72 | 118.94 |
| 32 | L | 206 | WVN | C20-C13-C15 | -6.66 | 105.32 | 121.46 |
| 40 | g | 313 | KC2 | C2B-C1B-NB | 6.66 | 115.01 | 110.10 |
| 32 | s | 405 | WVN | C27-C25-C23 | -6.66 | 107.58 | 118.08 |
| 29 | B | 839 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 40 | g | 314 | KC2 | C2B-C1B-NB | 6.65 | 115.00 | 110.10 |
| 40 | g | 314 | KC2 | C3A-C4A-NA | 6.65 | 117.83 | 110.57 |
| 40 | s | 401 | KC2 | C2B-C1B-NB | 6.65 | 115.00 | 110.10 |
| 32 | R | 202 | WVN | C35-C32-C31 | -6.65 | 107.61 | 118.08 |
| 29 | l | 308 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 29 | n | 601 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 38 | g | 319 | II0 | C04-C10-C14 | -6.64 | 113.25 | 122.63 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 40 | g | 315 | KC2 | CMA-C3A-C2A | -6.64 | 112.04 | 128.30 |
| 29 | k | 609 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 29 | n | 609 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 29 | A | 809 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 29 | A | 822 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 38 | l | 314 | II0 | C31-C33-C35 | 6.64 | 145.06 | 126.42 |
| 29 | j | 310 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 29 | n | 605 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 32 | K | 103 | WVN | C23-C25-C28 | -6.62 | 108.78 | 118.94 |
| 29 | c | 308 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 29 | j | 307 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 40 | f | 611 | KC2 | C2B-C1B-NB | 6.62 | 114.98 | 110.10 |
| 29 | k | 608 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 38 | m | 618 | II0 | C03-C09-C13 | -6.62 | 113.29 | 122.63 |
| 29 | h | 312 | CLA | C4A-NA-C1A | 6.61 | 109.68 | 106.71 |
| 40 | k | 611 | KC2 | CHB-C4A-C3A | -6.61 | 114.66 | 124.98 |
| 38 | i | 316 | II0 | C03-C09-C13 | -6.61 | 113.31 | 122.63 |
| 38 | n | 615 | II0 | C42-C40-C36 | -6.60 | 117.89 | 127.31 |
| 29 | j | 303 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | B | 836 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 38 | n | 618 | II0 | C34-C36-C40 | -6.60 | 108.81 | 118.94 |
| 29 | B | 830 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | k | 601 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 38 | n | 616 | II0 | C37-C35-C33 | -6.59 | 107.69 | 118.08 |
| 40 | n | 611 | KC2 | CHB-C4A-C3A | -6.59 | 114.69 | 124.98 |
| 29 | h | 306 | CLA | C4A-NA-C1A | 6.59 | 109.67 | 106.71 |
| 38 | g | 318 | II0 | C37-C35-C39 | -6.58 | 113.70 | 122.92 |
| 29 | a | 306 | CLA | C4A-NA-C1A | 6.58 | 109.67 | 106.71 |
| 29 | a | 312 | CLA | C4A-NA-C1A | 6.58 | 109.66 | 106.71 |
| 29 | b | 306 | CLA | C4A-NA-C1A | 6.58 | 109.66 | 106.71 |
| 29 | c | 309 | CLA | C4A-NA-C1A | 6.57 | 109.66 | 106.71 |
| 38 | m | 616 | II0 | C04-C10-C14 | -6.57 | 113.36 | 122.63 |
| 29 | g | 303 | CLA | C4A-NA-C1A | 6.56 | 109.66 | 106.71 |
| 38 | g | 319 | II0 | C37-C35-C33 | -6.56 | 107.74 | 118.08 |
| 32 | s | 407 | WVN | C23-C25-C28 | -6.55 | 108.89 | 118.94 |
| 38 | e | 312 | II0 | C34-C36-C40 | -6.55 | 108.89 | 118.94 |
| 40 | k | 611 | KC2 | CMA-C3A-C2A | -6.55 | 112.27 | 128.30 |
| 32 | R | 202 | WVN | C23-C25-C28 | -6.55 | 108.90 | 118.94 |
| 29 | e | 311 | CLA | C4A-NA-C1A | 6.54 | 109.65 | 106.71 |
| 40 | g | 315 | KC2 | C3B-C2B-C1B | -6.54 | 100.83 | 107.08 |
| 29 | n | 608 | CLA | C4A-NA-C1A | 6.54 | 109.64 | 106.71 |
| 29 | A | 812 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | m | 601 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 40 | i | 310 | KC2 | CHB-C4A-C3A | -6.53 | 114.77 | 124.98 |
| 30 | A | 841 | PQN | C15-C13-C12 | -6.53 | 107.90 | 121.12 |
| 29 | a | 303 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 38 | h | 310 | II0 | C03-C09-C13 | -6.52 | 113.42 | 122.63 |
| 40 | e | 309 | KC2 | C2B-C1B-NB | 6.52 | 114.91 | 110.10 |
| 40 | g | 314 | KC2 | CHB-C4A-C3A | -6.52 | 114.79 | 124.98 |
| 29 | h | 301 | CLA | C4A-NA-C1A | 6.52 | 109.64 | 106.71 |
| 38 | a | 315 | II0 | C03-C09-C13 | -6.52 | 113.43 | 122.63 |
| 38 | j | 316 | II0 | C03-C09-C13 | -6.52 | 113.43 | 122.63 |
| 29 | i | 303 | CLA | C4A-NA-C1A | 6.52 | 109.64 | 106.71 |
| 32 | i | 315 | WVN | C35-C32-C31 | -6.51 | 107.82 | 118.08 |
| 29 | h | 304 | CLA | C4A-NA-C1A | 6.51 | 109.63 | 106.71 |
| 29 | f | 613 | CLA | C4A-NA-C1A | 6.51 | 109.63 | 106.71 |
| 38 | f | 614 | II0 | C34-C36-C40 | -6.51 | 108.95 | 118.94 |
| 29 | f | 606 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 38 | J | 103 | II0 | C03-C09-C13 | -6.50 | 113.45 | 122.63 |
| 38 | i | 313 | II0 | C37-C35-C33 | -6.50 | 107.83 | 118.08 |
| 38 | e | 313 | II0 | C03-C09-C13 | -6.50 | 113.45 | 122.63 |
| 29 | A | 802 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 29 | j | 304 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 40 | g | 315 | KC2 | C4C-C3C-C2C | -6.50 | 101.96 | 107.11 |
| 29 | m | 606 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 29 | n | 602 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 29 | A | 810 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 40 | l | 311 | KC2 | C2B-C1B-NB | 6.48 | 114.88 | 110.10 |
| 29 | B | 811 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 32 | B | 848 | WVN | C14-C15-C13 | -6.48 | 113.33 | 122.73 |
| 40 | g | 315 | KC2 | C1A-C2A-C3A | -6.48 | 101.97 | 107.11 |
| 29 | B | 815 | CLA | C4A-NA-C1A | 6.47 | 109.62 | 106.71 |
| 29 | k | 606 | CLA | C4A-NA-C1A | 6.47 | 109.62 | 106.71 |
| 29 | A | 817 | CLA | C4A-NA-C1A | 6.47 | 109.62 | 106.71 |
| 40 | s | 404 | KC2 | CMA-C3A-C4A | -6.47 | 115.18 | 125.04 |
| 29 | e | 302 | CLA | C4A-NA-C1A | 6.47 | 109.61 | 106.71 |
| 38 | i | 316 | II0 | C34-C36-C40 | -6.47 | 109.01 | 118.94 |
| 40 | n | 611 | KC2 | C4C-C3C-C2C | -6.47 | 101.98 | 107.11 |
| 32 | A | 845 | WVN | C06-C13-C15 | -6.47 | 113.51 | 122.61 |
| 29 | B | 828 | CLA | C4A-NA-C1A | 6.46 | 109.61 | 106.71 |
| 38 | a | 315 | II0 | C37-C35-C33 | -6.46 | 107.89 | 118.08 |
| 38 | b | 315 | II0 | C03-C09-C13 | -6.46 | 113.51 | 122.63 |
| 40 | n | 611 | KC2 | C3B-C2B-C1B | -6.46 | 100.91 | 107.08 |
| 29 | e | 306 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | g | 319 | II0 | C03-C09-C13 | -6.45 | 113.52 | 122.63 |
| 32 | A | 845 | WVN | C35-C32-C31 | -6.45 | 107.92 | 118.08 |
| 29 | d | 313 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 29 | A | 820 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 32 | A | 846 | WVN | C02-C05-C09 | -6.44 | 113.55 | 121.47 |
| 32 | s | 407 | WVN | C20-C13-C15 | -6.43 | 105.88 | 121.46 |
| 29 | g | 304 | CLA | C4A-NA-C1A | 6.43 | 109.60 | 106.71 |
| 32 | R | 202 | WVN | C40-C37-C34 | -6.43 | 118.14 | 127.31 |
| 29 | A | 811 | CLA | C4A-NA-C1A | 6.42 | 109.59 | 106.71 |
| 32 | F | 207 | WVN | C38-C34-C33 | -6.41 | 107.97 | 118.08 |
| 29 | d | 309 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 29 | c | 305 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 29 | m | 612 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 38 | d | 301 | II0 | C37-C35-C33 | -6.41 | 107.98 | 118.08 |
| 40 | g | 314 | KC2 | C4C-C3C-C2C | -6.40 | 102.03 | 107.11 |
| 29 | J | 102 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 29 | j | 314 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 40 | k | 611 | KC2 | C3A-C4A-NA | 6.40 | 117.56 | 110.57 |
| 29 | A | 828 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 29 | B | 823 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 38 | a | 315 | II0 | C31-C29-C25 | -6.39 | 108.03 | 126.58 |
| 29 | m | 608 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 40 | c | 310 | KC2 | C3B-C2B-C1B | -6.38 | 100.98 | 107.08 |
| 40 | g | 315 | KC2 | CHB-C4A-C3A | -6.38 | 115.01 | 124.98 |
| 29 | A | 839 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 40 | s | 404 | KC2 | C2B-C1B-NB | 6.37 | 114.80 | 110.10 |
| 29 | c | 312 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 29 | B | 801 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 38 | k | 615 | II0 | C38-C36-C34 | -6.36 | 108.05 | 118.08 |
| 38 | a | 313 | II0 | C04-C10-C14 | -6.36 | 113.66 | 122.63 |
| 29 | B | 841 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 29 | A | 840 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 38 | h | 309 | II0 | C34-C36-C40 | -6.35 | 109.20 | 118.94 |
| 38 | h | 311 | II0 | C04-C10-C14 | -6.34 | 113.68 | 122.63 |
| 32 | F | 205 | WVN | C20-C13-C15 | -6.34 | 106.11 | 121.46 |
| 32 | L | 206 | WVN | C35-C32-C31 | -6.33 | 108.10 | 118.08 |
| 40 | m | 611 | KC2 | C3B-C2B-C1B | -6.33 | 101.03 | 107.08 |
| 40 | s | 404 | KC2 | C4C-C3C-C2C | -6.33 | 102.09 | 107.11 |
| 38 | J | 103 | II0 | C04-C10-C14 | -6.33 | 113.70 | 122.63 |
| 29 | b | 303 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 29 | A | 819 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |
| 29 | g | 310 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | R | 203 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |
| 32 | K | 103 | WVN | C38-C34-C33 | -6.32 | 108.12 | 118.08 |
| 40 | s | 404 | KC2 | C3A-C4A-NA | 6.32 | 117.47 | 110.57 |
| 40 | j | 312 | KC2 | C3B-C2B-C1B | -6.31 | 101.05 | 107.08 |
| 38 | i | 314 | II0 | C37-C35-C33 | -6.31 | 108.13 | 118.08 |
| 40 | g | 315 | KC2 | C3A-C4A-NA | 6.31 | 117.46 | 110.57 |
| 32 | A | 847 | WVN | C40-C37-C34 | -6.30 | 118.31 | 127.31 |
| 32 | l | 302 | WVN | C33-C34-C37 | -6.30 | 109.28 | 118.94 |
| 32 | l | 316 | WVN | C23-C20-C13 | -6.28 | 109.55 | 127.20 |
| 29 | B | 827 | CLA | CMB-C2B-C1B | -6.28 | 118.81 | 128.46 |
| 29 | d | 308 | CLA | C4A-NA-C1A | 6.28 | 109.53 | 106.71 |
| 29 | g | 316 | CLA | C4A-NA-C1A | 6.28 | 109.53 | 106.71 |
| 38 | k | 616 | II0 | C42-C40-C36 | -6.28 | 118.35 | 127.31 |
| 38 | j | 316 | II0 | C37-C35-C33 | -6.28 | 108.19 | 118.08 |
| 40 | d | 311 | KC2 | C3B-C2B-C1B | -6.28 | 101.08 | 107.08 |
| 38 | k | 620 | II0 | C03-C09-C13 | -6.27 | 113.78 | 122.63 |
| 32 | B | 847 | WVN | C27-C25-C23 | -6.27 | 108.19 | 118.08 |
| 32 | B | 847 | WVN | C35-C32-C31 | -6.27 | 108.20 | 118.08 |
| 32 | F | 207 | WVN | C24-C22-C19 | -6.26 | 108.21 | 118.08 |
| 30 | B | 843 | PQN | C15-C13-C12 | -6.26 | 108.45 | 121.12 |
| 32 | L | 201 | WVN | C24-C22-C19 | -6.26 | 108.22 | 118.08 |
| 40 | s | 404 | KC2 | CHB-C4A-C3A | -6.26 | 115.21 | 124.98 |
| 38 | d | 315 | II0 | C37-C35-C33 | -6.25 | 108.22 | 118.08 |
| 32 | F | 207 | WVN | C33-C34-C37 | -6.25 | 109.35 | 118.94 |
| 38 | b | 301 | II0 | C42-C40-C36 | -6.25 | 118.39 | 127.31 |
| 32 | B | 849 | WVN | C02-C05-C09 | -6.25 | 113.78 | 121.47 |
| 38 | l | 313 | II0 | C04-C10-C14 | -6.24 | 113.82 | 122.63 |
| 32 | F | 207 | WVN | C19-C22-C26 | -6.24 | 109.37 | 118.94 |
| 38 | k | 615 | II0 | C03-C09-C13 | -6.24 | 113.83 | 122.63 |
| 40 | f | 611 | KC2 | O2D-CGD-CBD | 6.22 | 122.33 | 111.27 |
| 29 | c | 302 | CLA | C4A-NA-C1A | 6.22 | 109.50 | 106.71 |
| 38 | k | 619 | II0 | C03-C09-C13 | -6.22 | 113.85 | 122.63 |
| 40 | i | 318 | KC2 | C3B-C2B-C1B | -6.22 | 101.14 | 107.08 |
| 38 | a | 314 | II0 | C34-C36-C40 | -6.21 | 109.41 | 118.94 |
| 38 | i | 316 | II0 | C33-C35-C39 | -6.21 | 109.41 | 118.94 |
| 29 | B | 810 | CLA | C4A-NA-C1A | 6.21 | 109.50 | 106.71 |
| 40 | l | 311 | KC2 | CHB-C4A-C3A | -6.21 | 115.28 | 124.98 |
| 32 | h | 308 | WVN | C38-C34-C33 | -6.21 | 108.30 | 118.08 |
| 32 | R | 202 | WVN | C14-C15-C13 | -6.21 | 113.72 | 122.73 |
| 29 | a | 308 | CLA | C4A-NA-C1A | 6.20 | 109.49 | 106.71 |
| 29 | i | 304 | CLA | C4A-NA-C1A | 6.19 | 109.49 | 106.71 |
| 29 | g | 308 | CLA | C4A-NA-C1A | 6.19 | 109.49 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | K | 102 | CLA | C4A-NA-C1A | 6.19 | 109.49 | 106.71 |
| 38 | k | 615 | II0 | C34-C36-C40 | -6.19 | 109.45 | 118.94 |
| 32 | F | 204 | WVN | C27-C25-C23 | -6.19 | 108.33 | 118.08 |
| 40 | s | 401 | KC2 | C3B-C2B-C1B | -6.18 | 101.17 | 107.08 |
| 40 | l | 311 | KC2 | C3A-C4A-NA | 6.18 | 117.32 | 110.57 |
| 32 | B | 849 | WVN | C30-C28-C25 | -6.18 | 118.48 | 127.31 |
| 38 | h | 311 | II0 | C37-C35-C33 | -6.18 | 108.33 | 118.08 |
| 38 | j | 301 | II0 | C04-C10-C14 | -6.18 | 113.91 | 122.63 |
| 32 | R | 201 | WVN | C40-C37-C34 | -6.17 | 118.50 | 127.31 |
| 32 | s | 407 | WVN | C27-C25-C23 | -6.17 | 108.36 | 118.08 |
| 32 | J | 101 | WVN | C14-C15-C13 | -6.16 | 113.78 | 122.73 |
| 38 | d | 316 | II0 | C42-C40-C36 | -6.16 | 118.52 | 127.31 |
| 38 | d | 301 | II0 | C33-C35-C39 | -6.15 | 109.50 | 118.94 |
| 32 | R | 201 | WVN | C35-C32-C31 | -6.15 | 108.39 | 118.08 |
| 32 | e | 315 | WVN | C35-C32-C31 | -6.14 | 108.40 | 118.08 |
| 32 | L | 206 | WVN | C33-C34-C37 | -6.14 | 109.52 | 118.94 |
| 32 | L | 201 | WVN | C27-C25-C23 | -6.14 | 108.41 | 118.08 |
| 32 | L | 205 | WVN | C20-C13-C15 | -6.14 | 106.60 | 121.46 |
| 38 | d | 315 | II0 | C31-C29-C25 | -6.13 | 108.77 | 126.58 |
| 38 | f | 615 | II0 | C37-C35-C33 | -6.13 | 108.41 | 118.08 |
| 32 | F | 205 | WVN | C14-C15-C13 | -6.13 | 113.83 | 122.73 |
| 38 | e | 312 | II0 | C04-C10-C14 | -6.13 | 113.97 | 122.63 |
| 32 | i | 315 | WVN | C30-C28-C25 | -6.13 | 118.56 | 127.31 |
| 29 | e | 307 | CLA | C4A-NA-C1A | 6.13 | 109.46 | 106.71 |
| 29 | A | 834 | CLA | C4A-NA-C1A | 6.13 | 109.46 | 106.71 |
| 38 | f | 618 | II0 | C37-C35-C33 | -6.13 | 108.43 | 118.08 |
| 32 | A | 854 | WVN | C30-C28-C25 | -6.12 | 118.57 | 127.31 |
| 40 | e | 309 | KC2 | C3B-C2B-C1B | -6.12 | 101.23 | 107.08 |
| 29 | B | 812 | CLA | C4A-NA-C1A | 6.12 | 109.46 | 106.71 |
| 38 | e | 313 | II0 | C34-C36-C40 | -6.11 | 109.56 | 118.94 |
| 40 | m | 611 | KC2 | CHB-C4A-C3A | -6.10 | 115.45 | 124.98 |
| 29 | B | 842 | CLA | C4A-NA-C1A | 6.10 | 109.45 | 106.71 |
| 40 | l | 311 | KC2 | C3B-C2B-C1B | -6.10 | 101.25 | 107.08 |
| 32 | s | 405 | WVN | C14-C15-C13 | -6.10 | 113.87 | 122.73 |
| 40 | f | 611 | KC2 | C3B-C2B-C1B | -6.09 | 101.26 | 107.08 |
| 40 | i | 310 | KC2 | C3B-C2B-C1B | -6.09 | 101.26 | 107.08 |
| 29 | s | 406 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 32 | M | 101 | WVN | C23-C25-C28 | -6.09 | 109.60 | 118.94 |
| 32 | L | 206 | WVN | C23-C25-C28 | -6.09 | 109.60 | 118.94 |
| 29 | a | 304 | CLA | C4A-NA-C1A | 6.08 | 109.44 | 106.71 |
| 40 | g | 314 | KC2 | C3B-C2B-C1B | -6.08 | 101.27 | 107.08 |
| 38 | a | 315 | II0 | C04-C10-C14 | -6.08 | 114.05 | 122.63 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | c | 303 | CLA | C4A-NA-C1A | 6.06 | 109.43 | 106.71 |
| 40 | d | 311 | KC2 | CHB-C4A-C3A | -6.05 | 115.52 | 124.98 |
| 32 | l | 316 | WVN | C20-C13-C15 | -6.05 | 106.81 | 121.46 |
| 38 | j | 301 | II0 | C38-C36-C34 | -6.05 | 108.55 | 118.08 |
| 29 | m | 603 | CLA | C4A-NA-C1A | 6.05 | 109.42 | 106.71 |
| 32 | R | 201 | WVN | C20-C13-C15 | -6.04 | 106.83 | 121.46 |
| 38 | d | 316 | II0 | C37-C35-C33 | -6.04 | 108.56 | 118.08 |
| 40 | i | 310 | KC2 | O2D-CGD-CBD | 6.04 | 121.99 | 111.27 |
| 32 | A | 845 | WVN | C14-C15-C13 | -6.04 | 113.97 | 122.73 |
| 32 | A | 845 | WVN | C23-C25-C28 | -6.03 | 109.69 | 118.94 |
| 38 | m | 618 | II0 | C37-C35-C33 | -6.03 | 108.57 | 118.08 |
| 40 | i | 310 | KC2 | C4C-C3C-C2C | -6.03 | 102.33 | 107.11 |
| 40 | j | 312 | KC2 | CHB-C4A-C3A | -6.03 | 115.57 | 124.98 |
| 32 | F | 205 | WVN | C35-C32-C31 | -6.02 | 108.59 | 118.08 |
| 29 | O | 201 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 40 | g | 313 | KC2 | C3B-C2B-C1B | -6.01 | 101.33 | 107.08 |
| 29 | j | 309 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 40 | g | 313 | KC2 | CHB-C4A-C3A | -6.01 | 115.59 | 124.98 |
| 32 | A | 854 | WVN | C06-C13-C15 | -6.01 | 114.15 | 122.61 |
| 29 | c | 307 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 29 | n | 603 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 38 | g | 318 | II0 | C42-C40-C36 | -6.01 | 118.74 | 127.31 |
| 29 | d | 310 | CLA | C4A-NA-C1A | 6.00 | 109.40 | 106.71 |
| 32 | B | 848 | WVN | C06-C13-C15 | -5.99 | 114.17 | 122.61 |
| 40 | s | 401 | KC2 | CHB-C4A-C3A | -5.99 | 115.63 | 124.98 |
| 40 | i | 318 | KC2 | CHB-C4A-C3A | -5.99 | 115.63 | 124.98 |
| 40 | d | 311 | KC2 | C3A-C4A-NA | 5.98 | 117.11 | 110.57 |
| 40 | k | 611 | KC2 | C3B-C2B-C1B | -5.98 | 101.36 | 107.08 |
| 32 | s | 405 | WVN | C33-C34-C37 | -5.98 | 109.76 | 118.94 |
| 32 | F | 205 | WVN | C39-C36-C32 | -5.98 | 118.78 | 127.31 |
| 38 | a | 317 | II0 | C03-C09-C13 | -5.98 | 114.20 | 122.63 |
| 40 | m | 611 | KC2 | C4C-C3C-C2C | -5.97 | 102.38 | 107.11 |
| 38 | a | 314 | II0 | C42-C40-C36 | -5.96 | 118.80 | 127.31 |
| 32 | L | 201 | WVN | C31-C32-C36 | -5.96 | 109.79 | 118.94 |
| 29 | B | 806 | CLA | C4A-NA-C1A | 5.96 | 109.39 | 106.71 |
| 29 | F | 202 | CLA | C4A-NA-C1A | 5.96 | 109.39 | 106.71 |
| 38 | n | 618 | II0 | C38-C36-C34 | -5.96 | 108.69 | 118.08 |
| 29 | B | 821 | CLA | C4A-NA-C1A | 5.95 | 109.38 | 106.71 |
| 40 | f | 611 | KC2 | CHB-C4A-C3A | -5.95 | 115.68 | 124.98 |
| 29 | B | 827 | CLA | C4A-NA-C1A | 5.95 | 109.38 | 106.71 |
| 29 | m | 602 | CLA | C4A-NA-C1A | 5.95 | 109.38 | 106.71 |
| 29 | B | 818 | CLA | C4A-NA-C1A | 5.95 | 109.38 | 106.71 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | A | 844 | WVN | C19-C22-C26 | -5.94 | 109.83 | 118.94 |
| 32 | L | 201 | WVN | C19-C22-C26 | -5.94 | 109.83 | 118.94 |
| 40 | c | 310 | KC2 | CHB-C4A-C3A | -5.94 | 115.70 | 124.98 |
| 29 | f | 608 | CLA | C4A-NA-C1A | 5.93 | 109.37 | 106.71 |
| 40 | i | 318 | KC2 | C3A-C4A-NA | 5.93 | 117.05 | 110.57 |
| 40 | m | 611 | KC2 | C3A-C4A-NA | 5.93 | 117.04 | 110.57 |
| 29 | A | 832 | CLA | C4A-NA-C1A | 5.92 | 109.37 | 106.71 |
| 29 | A | 829 | CLA | C4A-NA-C1A | 5.92 | 109.37 | 106.71 |
| 32 | A | 847 | WVN | C14-C15-C13 | -5.91 | 114.15 | 122.73 |
| 29 | j | 308 | CLA | C4A-NA-C1A | 5.91 | 109.36 | 106.71 |
| 38 | e | 314 | II0 | C37-C35-C33 | -5.91 | 108.76 | 118.08 |
| 32 | L | 201 | WVN | C35-C32-C31 | -5.91 | 108.77 | 118.08 |
| 29 | d | 303 | CLA | C4A-NA-C1A | 5.91 | 109.36 | 106.71 |
| 40 | j | 312 | KC2 | C3A-C4A-NA | 5.90 | 117.01 | 110.57 |
| 40 | g | 313 | KC2 | C3A-C4A-NA | 5.90 | 117.01 | 110.57 |
| 29 | A | 825 | CLA | C4A-NA-C1A | 5.89 | 109.36 | 106.71 |
| 32 | K | 103 | WVN | C35-C32-C31 | -5.89 | 108.79 | 118.08 |
| 32 | B | 848 | WVN | C35-C32-C31 | -5.89 | 108.79 | 118.08 |
| 32 | F | 205 | WVN | C23-C25-C28 | -5.89 | 109.90 | 118.94 |
| 38 | i | 314 | II0 | C03-C09-C13 | -5.89 | 114.32 | 122.63 |
| 38 | n | 618 | II0 | C37-C35-C33 | -5.89 | 108.80 | 118.08 |
| 29 | b | 310 | CLA | C4A-NA-C1A | 5.89 | 109.35 | 106.71 |
| 38 | g | 317 | II0 | C31-C29-C25 | -5.88 | 109.50 | 126.58 |
| 32 | l | 316 | WVN | C35-C32-C31 | -5.88 | 108.81 | 118.08 |
| 38 | m | 616 | II0 | C03-C09-C13 | -5.88 | 114.33 | 122.63 |
| 29 | F | 201 | CLA | C4A-NA-C1A | 5.87 | 109.34 | 106.71 |
| 38 | a | 313 | II0 | C37-C35-C33 | -5.86 | 108.84 | 118.08 |
| 29 | B | 819 | CLA | CBC-CAC-C3C | 5.86 | 128.57 | 112.43 |
| 38 | J | 103 | II0 | C37-C35-C33 | -5.85 | 108.86 | 118.08 |
| 29 | B | 816 | CLA | C4A-NA-C1A | 5.85 | 109.34 | 106.71 |
| 40 | s | 401 | KC2 | C3A-C4A-NA | 5.85 | 116.96 | 110.57 |
| 32 | B | 849 | WVN | C24-C22-C19 | -5.85 | 108.86 | 118.08 |
| 40 | e | 309 | KC2 | CHB-C4A-C3A | -5.85 | 115.85 | 124.98 |
| 40 | c | 310 | KC2 | C3A-C4A-NA | 5.84 | 116.95 | 110.57 |
| 38 | h | 309 | II0 | C37-C35-C33 | -5.84 | 108.88 | 118.08 |
| 38 | g | 317 | II0 | C37-C35-C33 | -5.84 | 108.88 | 118.08 |
| 40 | f | 611 | KC2 | C3A-C4A-NA | 5.84 | 116.94 | 110.57 |
| 38 | f | 614 | II0 | C03-C09-C13 | -5.83 | 114.40 | 122.63 |
| 32 | A | 844 | WVN | C35-C32-C31 | -5.83 | 108.89 | 118.08 |
| 38 | f | 616 | II0 | C37-C35-C33 | -5.83 | 108.89 | 118.08 |
| 29 | A | 803 | CLA | C4A-NA-C1A | 5.82 | 109.32 | 106.71 |
| 40 | l | 311 | KC2 | O2D-CGD-CBD | 5.81 | 121.60 | 111.27 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | B | 817 | CLA | C4A-NA-C1A | 5.81 | 109.32 | 106.71 |
| 38 | a | 317 | II0 | C37-C35-C33 | -5.81 | 108.92 | 118.08 |
| 38 | k | 620 | II0 | C37-C35-C33 | -5.81 | 108.92 | 118.08 |
| 38 | f | 614 | II0 | C04-C10-C14 | -5.81 | 114.44 | 122.63 |
| 40 | e | 309 | KC2 | C3A-C4A-NA | 5.79 | 116.89 | 110.57 |
| 38 | f | 616 | II0 | C31-C29-C25 | -5.79 | 109.78 | 126.58 |
| 32 | J | 101 | WVN | C27-C25-C23 | -5.79 | 108.96 | 118.08 |
| 32 | M | 101 | WVN | C27-C25-C23 | -5.79 | 108.96 | 118.08 |
| 29 | B | 802 | CLA | C4A-NA-C1A | 5.78 | 109.31 | 106.71 |
| 32 | L | 205 | WVN | C02-C05-C09 | -5.78 | 114.36 | 121.47 |
| 32 | I | 101 | WVN | C23-C25-C28 | -5.78 | 110.07 | 118.94 |
| 32 | i | 315 | WVN | C24-C22-C19 | -5.78 | 108.97 | 118.08 |
| 40 | l | 311 | KC2 | C4C-C3C-C2C | -5.76 | 102.54 | 107.11 |
| 38 | e | 312 | II0 | C33-C35-C39 | -5.75 | 110.11 | 118.94 |
| 38 | i | 316 | II0 | C38-C36-C34 | -5.75 | 109.02 | 118.08 |
| 32 | I | 101 | WVN | C20-C13-C15 | -5.75 | 107.53 | 121.46 |
| 29 | e | 303 | CLA | C4A-NA-C1A | 5.74 | 109.29 | 106.71 |
| 32 | A | 846 | WVN | C20-C13-C15 | -5.74 | 107.56 | 121.46 |
| 38 | m | 616 | II0 | C37-C35-C33 | -5.74 | 109.04 | 118.08 |
| 38 | i | 319 | II0 | C37-C35-C33 | -5.74 | 109.04 | 118.08 |
| 38 | j | 315 | II0 | C37-C35-C33 | -5.73 | 109.04 | 118.08 |
| 38 | m | 616 | II0 | C38-C36-C34 | -5.73 | 109.04 | 118.08 |
| 38 | c | 313 | II0 | C04-C10-C14 | -5.73 | 114.54 | 122.63 |
| 31 | s | 408 | LHG | O4-P-O5 | 5.72 | 133.06 | 110.68 |
| 29 | A | 818 | CLA | C4A-NA-C1A | 5.71 | 109.27 | 106.71 |
| 38 | l | 315 | II0 | C37-C35-C33 | -5.71 | 109.08 | 118.08 |
| 32 | F | 207 | WVN | C02-C05-C09 | -5.70 | 114.45 | 121.47 |
| 38 | k | 616 | II0 | C19-C13-C11 | -5.70 | 103.79 | 114.36 |
| 38 | g | 319 | II0 | C31-C29-C25 | -5.69 | 110.05 | 126.58 |
| 32 | A | 844 | WVN | C24-C22-C19 | -5.69 | 109.12 | 118.08 |
| 38 | h | 309 | II0 | C38-C36-C34 | -5.68 | 109.13 | 118.08 |
| 38 | b | 301 | II0 | C37-C35-C33 | -5.67 | 109.14 | 118.08 |
| 29 | n | 613 | CLA | C4A-NA-C1A | 5.67 | 109.26 | 106.71 |
| 40 | s | 401 | KC2 | O2D-CGD-CBD | 5.67 | 121.34 | 111.27 |
| 38 | f | 615 | II0 | C42-C40-C36 | -5.67 | 119.22 | 127.31 |
| 32 | A | 854 | WVN | C35-C32-C31 | -5.66 | 109.16 | 118.08 |
| 38 | m | 615 | II0 | C37-C35-C33 | -5.66 | 109.16 | 118.08 |
| 32 | e | 315 | WVN | C27-C25-C23 | -5.66 | 109.17 | 118.08 |
| 29 | A | 802 | CLA | CMB-C2B-C1B | -5.65 | 119.77 | 128.46 |
| 38 | i | 319 | II0 | C32-C30-C26 | -5.65 | 110.16 | 126.58 |
| 29 | c | 306 | CLA | C4A-NA-C1A | 5.65 | 109.25 | 106.71 |
| 38 | e | 313 | II0 | C37-C35-C33 | -5.63 | 109.20 | 118.08 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | R | 201 | WVN | C27-C25-C23 | -5.62 | 109.22 | 118.08 |
| 32 | h | 308 | WVN | C35-C32-C31 | -5.62 | 109.23 | 118.08 |
| 32 | l | 302 | WVN | C35-C32-C31 | -5.60 | 109.25 | 118.08 |
| 40 | g | 314 | KC2 | CMA-C3A-C2A | -5.60 | 114.60 | 128.30 |
| 38 | k | 619 | II0 | C37-C35-C33 | -5.59 | 109.27 | 118.08 |
| 32 | e | 315 | WVN | C02-C05-C09 | -5.59 | 114.60 | 121.47 |
| 40 | i | 310 | KC2 | C1A-NA-C4A | -5.58 | 104.20 | 106.71 |
| 38 | e | 313 | II0 | C04-C10-C14 | -5.58 | 114.76 | 122.63 |
| 40 | k | 611 | KC2 | O2D-CGD-CBD | 5.57 | 121.16 | 111.27 |
| 32 | L | 205 | WVN | C27-C25-C23 | -5.56 | 109.31 | 118.08 |
| 29 | m | 607 | CLA | C4A-NA-C1A | 5.56 | 109.21 | 106.71 |
| 40 | j | 312 | KC2 | C4C-C3C-C2C | -5.56 | 102.70 | 107.11 |
| 32 | s | 407 | WVN | C35-C32-C31 | -5.56 | 109.32 | 118.08 |
| 40 | f | 611 | KC2 | C4C-C3C-C2C | -5.55 | 102.71 | 107.11 |
| 32 | l | 302 | WVN | C31-C32-C36 | -5.55 | 110.43 | 118.94 |
| 38 | d | 301 | II0 | C03-C09-C13 | -5.54 | 114.81 | 122.63 |
| 32 | I | 101 | WVN | C35-C32-C31 | -5.54 | 109.36 | 118.08 |
| 32 | B | 846 | WVN | C14-C15-C13 | -5.53 | 114.70 | 122.73 |
| 29 | B | 833 | CLA | CMB-C2B-C1B | -5.53 | 119.96 | 128.46 |
| 32 | R | 201 | WVN | C24-C22-C19 | -5.53 | 109.37 | 118.08 |
| 38 | h | 310 | II0 | C37-C35-C33 | -5.53 | 109.37 | 118.08 |
| 29 | B | 829 | CLA | C4A-NA-C1A | 5.53 | 109.19 | 106.71 |
| 38 | i | 313 | II0 | C38-C36-C34 | -5.52 | 109.37 | 118.08 |
| 32 | B | 848 | WVN | C31-C32-C36 | -5.52 | 110.46 | 118.94 |
| 40 | d | 311 | KC2 | C4C-C3C-C2C | -5.51 | 102.74 | 107.11 |
| 32 | K | 103 | WVN | C27-C25-C23 | -5.51 | 109.40 | 118.08 |
| 32 | M | 101 | WVN | C14-C15-C13 | -5.51 | 114.73 | 122.73 |
| 38 | d | 317 | II0 | C37-C35-C33 | -5.50 | 109.41 | 118.08 |
| 38 | b | 314 | II0 | C33-C35-C39 | -5.50 | 110.51 | 118.94 |
| 38 | e | 314 | II0 | C38-C36-C34 | -5.49 | 109.43 | 118.08 |
| 38 | n | 615 | II0 | C37-C35-C33 | -5.49 | 109.43 | 118.08 |
| 40 | k | 611 | KC2 | C4C-C3C-C2C | -5.48 | 102.76 | 107.11 |
| 38 | b | 314 | II0 | C04-C10-C14 | -5.48 | 114.89 | 122.63 |
| 38 | n | 616 | II0 | C38-C36-C34 | -5.48 | 109.44 | 118.08 |
| 38 | n | 615 | II0 | C04-C10-C14 | -5.47 | 114.90 | 122.63 |
| 40 | k | 611 | KC2 | CMD-C2D-C1D | 5.47 | 136.88 | 128.46 |
| 38 | k | 620 | II0 | C38-C36-C34 | -5.47 | 109.46 | 118.08 |
| 32 | A | 847 | WVN | C27-C25-C23 | -5.47 | 109.46 | 118.08 |
| 29 | s | 402 | CLA | C4A-NA-C1A | 5.47 | 109.16 | 106.71 |
| 38 | n | 616 | II0 | C33-C35-C39 | -5.47 | 110.55 | 118.94 |
| 38 | j | 315 | II0 | C04-C10-C14 | -5.46 | 114.92 | 122.63 |
| 38 | b | 301 | II0 | C38-C36-C34 | -5.46 | 109.47 | 118.08 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 834 | CLA | CMB-C2B-C1B | -5.46 | 120.07 | 128.46 |
| 38 | i | 316 | II0 | C37-C35-C33 | -5.46 | 109.48 | 118.08 |
| 32 | F | 205 | WVN | C27-C25-C23 | -5.46 | 109.48 | 118.08 |
| 29 | k | 614 | CLA | C4A-NA-C1A | 5.45 | 109.16 | 106.71 |
| 38 | e | 314 | II0 | C04-C10-C14 | -5.45 | 114.93 | 122.63 |
| 40 | s | 401 | KC2 | C4C-C3C-C2C | -5.45 | 102.79 | 107.11 |
| 38 | f | 614 | II0 | C38-C36-C34 | -5.43 | 109.51 | 118.08 |
| 40 | i | 318 | KC2 | C4C-C3C-C2C | -5.43 | 102.80 | 107.11 |
| 29 | f | 607 | CLA | C4A-NA-C1A | 5.43 | 109.15 | 106.71 |
| 29 | d | 307 | CLA | C4A-NA-C1A | 5.43 | 109.15 | 106.71 |
| 38 | d | 316 | II0 | C27-C25-C23 | -5.43 | 106.09 | 116.84 |
| 40 | i | 310 | KC2 | CMD-C2D-C1D | 5.42 | 136.80 | 128.46 |
| 29 | k | 603 | CLA | C4A-NA-C1A | 5.42 | 109.14 | 106.71 |
| 38 | g | 318 | II0 | C37-C35-C33 | -5.42 | 109.53 | 118.08 |
| 38 | e | 313 | II0 | C30-C32-C34 | -5.42 | 106.30 | 123.22 |
| 29 | A | 813 | CLA | C4A-NA-C1A | 5.41 | 109.14 | 106.71 |
| 29 | A | 850 | CLA | C4A-NA-C1A | 5.40 | 109.14 | 106.71 |
| 38 | j | 301 | II0 | C33-C35-C39 | -5.40 | 110.66 | 118.94 |
| 29 | f | 608 | CLA | CMB-C2B-C1B | -5.40 | 120.17 | 128.46 |
| 32 | l | 302 | WVN | C20-C13-C15 | -5.39 | 108.40 | 121.46 |
| 40 | c | 310 | KC2 | CMD-C2D-C1D | 5.39 | 136.74 | 128.46 |
| 32 | A | 847 | WVN | C38-C34-C33 | -5.37 | 109.62 | 118.08 |
| 29 | k | 607 | CLA | C4A-NA-C1A | 5.37 | 109.12 | 106.71 |
| 40 | j | 312 | KC2 | C2A-C1A-NA | 5.36 | 118.00 | 109.40 |
| 32 | L | 205 | WVN | C35-C32-C31 | -5.36 | 109.63 | 118.08 |
| 38 | c | 313 | II0 | C38-C36-C34 | -5.35 | 109.64 | 118.08 |
| 40 | l | 311 | KC2 | C3C-C2C-C1C | -5.35 | 102.52 | 106.49 |
| 38 | j | 315 | II0 | C03-C09-C13 | -5.35 | 115.08 | 122.63 |
| 38 | h | 311 | II0 | C30-C32-C34 | -5.35 | 106.53 | 123.22 |
| 38 | k | 616 | II0 | C04-C10-C14 | -5.34 | 115.09 | 122.63 |
| 38 | j | 301 | II0 | C37-C35-C33 | -5.34 | 109.66 | 118.08 |
| 32 | M | 101 | WVN | C38-C34-C33 | -5.33 | 109.68 | 118.08 |
| 32 | R | 201 | WVN | C06-C13-C15 | -5.33 | 115.11 | 122.61 |
| 38 | j | 316 | II0 | C27-C25-C23 | -5.33 | 106.28 | 116.84 |
| 32 | A | 847 | WVN | C02-C05-C09 | -5.32 | 114.92 | 121.47 |
| 29 | i | 307 | CLA | C4A-NA-C1A | 5.32 | 109.10 | 106.71 |
| 38 | e | 313 | II0 | C33-C35-C39 | -5.32 | 110.78 | 118.94 |
| 38 | d | 317 | II0 | C04-C10-C14 | -5.31 | 115.13 | 122.63 |
| 38 | b | 315 | II0 | C31-C29-C25 | -5.31 | 111.15 | 126.58 |
| 32 | B | 848 | WVN | C27-C25-C23 | -5.31 | 109.71 | 118.08 |
| 29 | b | 304 | CLA | CMB-C2B-C1B | -5.31 | 120.30 | 128.46 |
| 38 | c | 313 | II0 | C03-C09-C13 | -5.31 | 115.14 | 122.63 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | d | 303 | CLA | CMB-C2B-C1B | -5.30 | 120.31 | 128.46 |
| 38 | d | 316 | II0 | C38-C36-C34 | -5.30 | 109.72 | 118.08 |
| 32 | R | 202 | WVN | C27-C25-C23 | -5.30 | 109.73 | 118.08 |
| 38 | d | 301 | II0 | C31-C29-C25 | -5.30 | 111.20 | 126.58 |
| 38 | e | 312 | II0 | C38-C36-C34 | -5.30 | 109.73 | 118.08 |
| 38 | b | 314 | II0 | C37-C35-C33 | -5.30 | 109.73 | 118.08 |
| 40 | i | 318 | KC2 | CMD-C2D-C1D | 5.29 | 136.60 | 128.46 |
| 29 | B | 829 | CLA | CMB-C2B-C1B | -5.29 | 120.33 | 128.46 |
| 29 | B | 804 | CLA | CAC-C3C-C4C | 5.29 | 131.67 | 124.81 |
| 40 | f | 611 | KC2 | CMD-C2D-C1D | 5.29 | 136.59 | 128.46 |
| 32 | A | 844 | WVN | C27-C25-C23 | -5.28 | 109.75 | 118.08 |
| 40 | g | 313 | KC2 | C4C-C3C-C2C | -5.28 | 102.92 | 107.11 |
| 29 | n | 607 | CLA | C4A-NA-C1A | 5.28 | 109.08 | 106.71 |
| 38 | j | 316 | II0 | C04-C10-C14 | -5.28 | 115.18 | 122.63 |
| 40 | c | 310 | KC2 | C4C-C3C-C2C | -5.27 | 102.93 | 107.11 |
| 32 | R | 202 | WVN | C38-C34-C33 | -5.27 | 109.77 | 118.08 |
| 38 | f | 616 | II0 | C03-C09-C13 | -5.27 | 115.19 | 122.63 |
| 40 | k | 611 | KC2 | CBA-CAA-C2A | -5.27 | 105.19 | 125.27 |
| 32 | A | 845 | WVN | C38-C34-C33 | -5.26 | 109.78 | 118.08 |
| 38 | b | 315 | II0 | C32-C30-C26 | -5.26 | 111.30 | 126.58 |
| 32 | B | 847 | WVN | C20-C13-C15 | -5.26 | 108.72 | 121.46 |
| 38 | J | 103 | II0 | C38-C36-C34 | -5.25 | 109.80 | 118.08 |
| 32 | i | 315 | WVN | C14-C15-C13 | -5.25 | 115.11 | 122.73 |
| 38 | j | 316 | II0 | C42-C40-C36 | -5.25 | 119.82 | 127.31 |
| 29 | B | 826 | CLA | C4A-NA-C1A | 5.25 | 109.06 | 106.71 |
| 40 | c | 310 | KC2 | O2D-CGD-CBD | 5.24 | 120.58 | 111.27 |
| 38 | a | 315 | II0 | C38-C36-C34 | -5.24 | 109.82 | 118.08 |
| 32 | K | 103 | WVN | C31-C32-C36 | -5.24 | 110.90 | 118.94 |
| 38 | k | 615 | II0 | C28-C26-C24 | -5.24 | 106.47 | 116.84 |
| 29 | f | 613 | CLA | CMB-C2B-C1B | -5.24 | 120.42 | 128.46 |
| 38 | i | 314 | II0 | C27-C25-C23 | -5.23 | 106.48 | 116.84 |
| 32 | L | 201 | WVN | C02-C05-C09 | -5.23 | 115.04 | 121.47 |
| 38 | l | 315 | II0 | C04-C10-C14 | -5.22 | 115.26 | 122.63 |
| 29 | A | 839 | CLA | CMB-C2B-C1B | -5.22 | 120.44 | 128.46 |
| 40 | j | 312 | KC2 | C1A-NA-C4A | -5.21 | 104.36 | 106.71 |
| 38 | b | 315 | II0 | C42-C40-C36 | -5.21 | 119.88 | 127.31 |
| 38 | d | 317 | II0 | C33-C35-C39 | -5.21 | 110.95 | 118.94 |
| 32 | A | 846 | WVN | C14-C15-C13 | -5.20 | 115.18 | 122.73 |
| 38 | k | 619 | II0 | C33-C35-C39 | -5.20 | 110.96 | 118.94 |
| 38 | i | 314 | II0 | C28-C26-C24 | -5.20 | 106.55 | 116.84 |
| 40 | c | 310 | KC2 | C2A-C1A-NA | 5.19 | 117.73 | 109.40 |
| 40 | e | 309 | KC2 | C3C-C2C-C1C | -5.19 | 102.64 | 106.49 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | F | 204 | WVN | C33-C34-C37 | -5.19 | 110.98 | 118.94 |
| 29 | e | 303 | CLA | CMB-C2B-C1B | -5.18 | 120.50 | 128.46 |
| 29 | c | 303 | CLA | CMB-C2B-C1B | -5.18 | 120.50 | 128.46 |
| 32 | A | 854 | WVN | C31-C32-C36 | -5.17 | 111.01 | 118.94 |
| 38 | l | 315 | II0 | C19-C13-C11 | -5.17 | 104.78 | 114.36 |
| 32 | L | 201 | WVN | C06-C13-C15 | -5.16 | 115.34 | 122.61 |
| 38 | b | 301 | II0 | C33-C35-C39 | -5.16 | 111.02 | 118.94 |
| 38 | i | 313 | II0 | C28-C26-C24 | -5.15 | 106.64 | 116.84 |
| 38 | l | 315 | II0 | C38-C36-C34 | -5.15 | 109.97 | 118.08 |
| 38 | h | 309 | II0 | C33-C35-C39 | -5.15 | 111.05 | 118.94 |
| 38 | h | 309 | II0 | C31-C29-C25 | -5.15 | 111.64 | 126.58 |
| 40 | i | 318 | KC2 | O2D-CGD-CBD | 5.14 | 120.41 | 111.27 |
| 38 | i | 314 | II0 | C20-C14-C12 | -5.14 | 104.83 | 114.36 |
| 29 | k | 603 | CLA | CMB-C2B-C1B | -5.14 | 120.57 | 128.46 |
| 32 | F | 204 | WVN | C31-C32-C36 | -5.14 | 111.06 | 118.94 |
| 32 | s | 405 | WVN | C38-C34-C33 | -5.13 | 109.99 | 118.08 |
| 40 | s | 404 | KC2 | C3B-C2B-C1B | -5.13 | 102.18 | 107.08 |
| 38 | m | 614 | II0 | C04-C10-C14 | -5.13 | 115.39 | 122.63 |
| 40 | g | 313 | KC2 | O2D-CGD-CBD | 5.13 | 120.38 | 111.27 |
| 40 | c | 310 | KC2 | C1A-NA-C4A | -5.12 | 104.40 | 106.71 |
| 38 | f | 616 | II0 | C38-C36-C34 | -5.11 | 110.02 | 118.08 |
| 32 | A | 844 | WVN | C38-C34-C33 | -5.11 | 110.03 | 118.08 |
| 38 | g | 319 | II0 | C38-C36-C34 | -5.11 | 110.03 | 118.08 |
| 40 | e | 309 | KC2 | CMD-C2D-C1D | 5.11 | 136.31 | 128.46 |
| 29 | A | 829 | CLA | CMB-C2B-C1B | -5.10 | 120.62 | 128.46 |
| 40 | e | 309 | KC2 | C4C-C3C-C2C | -5.10 | 103.06 | 107.11 |
| 38 | k | 615 | II0 | C31-C29-C25 | -5.10 | 111.78 | 126.58 |
| 38 | i | 314 | II0 | C30-C32-C34 | -5.09 | 107.34 | 123.22 |
| 38 | l | 315 | II0 | C03-C09-C13 | -5.09 | 115.45 | 122.63 |
| 40 | n | 611 | KC2 | CMD-C2D-C1D | 5.08 | 136.28 | 128.46 |
| 38 | i | 319 | II0 | C20-C14-C12 | -5.08 | 104.95 | 114.36 |
| 38 | g | 317 | II0 | C38-C36-C34 | -5.08 | 110.08 | 118.08 |
| 38 | b | 314 | II0 | C31-C29-C25 | -5.07 | 111.85 | 126.58 |
| 38 | g | 317 | II0 | C04-C10-C14 | -5.07 | 115.47 | 122.63 |
| 40 | d | 311 | KC2 | C2A-C1A-NA | 5.07 | 117.53 | 109.40 |
| 32 | A | 854 | WVN | C02-C05-C09 | -5.07 | 115.23 | 121.47 |
| 38 | m | 614 | II0 | C38-C36-C34 | -5.07 | 110.09 | 118.08 |
| 38 | d | 316 | II0 | C32-C30-C26 | -5.06 | 111.88 | 126.58 |
| 29 | b | 304 | CLA | C4A-NA-C1A | 5.06 | 108.98 | 106.71 |
| 38 | d | 315 | II0 | C32-C30-C26 | -5.06 | 111.89 | 126.58 |
| 30 | A | 841 | PQN | C14-C13-C12 | -5.05 | 110.71 | 123.68 |
| 32 | K | 103 | WVN | C02-C05-C09 | -5.05 | 115.25 | 121.47 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | m | 615 | II0 | C28-C26-C24 | -5.05 | 106.84 | 116.84 |
| 32 | L | 206 | WVN | C19-C22-C26 | -5.05 | 111.20 | 118.94 |
| 30 | B | 843 | PQN | C14-C13-C12 | -5.04 | 110.74 | 123.68 |
| 32 | F | 205 | WVN | C06-C13-C15 | -5.04 | 115.51 | 122.61 |
| 38 | d | 316 | II0 | C31-C29-C25 | -5.04 | 111.95 | 126.58 |
| 38 | b | 315 | II0 | C37-C35-C33 | -5.04 | 110.14 | 118.08 |
| 29 | j | 304 | CLA | CMB-C2B-C1B | -5.04 | 120.72 | 128.46 |
| 38 | b | 315 | II0 | C20-C14-C12 | -5.04 | 105.03 | 114.36 |
| 38 | b | 315 | II0 | C12-C14-C10 | -5.04 | 109.14 | 120.57 |
| 29 | g | 305 | CLA | CMB-C2B-C1B | -5.03 | 120.73 | 128.46 |
| 40 | j | 312 | KC2 | C3C-C2C-C1C | -5.03 | 102.76 | 106.49 |
| 32 | F | 205 | WVN | C01-C02-C11 | -5.02 | 106.35 | 112.70 |
| 32 | L | 205 | WVN | C23-C25-C28 | -5.02 | 111.24 | 118.94 |
| 38 | f | 614 | II0 | C31-C29-C25 | -5.01 | 112.03 | 126.58 |
| 40 | d | 311 | KC2 | C3C-C2C-C1C | -5.01 | 102.77 | 106.49 |
| 38 | f | 618 | II0 | C28-C26-C24 | -5.00 | 106.94 | 116.84 |
| 38 | j | 301 | II0 | C31-C29-C25 | -5.00 | 112.07 | 126.58 |
| 29 | a | 308 | CLA | CMB-C2B-C1B | -5.00 | 120.78 | 128.46 |
| 40 | j | 312 | KC2 | CMD-C2D-C1D | 4.99 | 136.14 | 128.46 |
| 40 | e | 309 | KC2 | C2A-C1A-NA | 4.99 | 117.41 | 109.40 |
| 32 | B | 849 | WVN | C06-C13-C15 | -4.99 | 115.58 | 122.61 |
| 40 | j | 312 | KC2 | CHC-C1C-C2C | -4.99 | 117.19 | 124.98 |
| 40 | i | 318 | KC2 | C3C-C2C-C1C | -4.99 | 102.79 | 106.49 |
| 32 | L | 205 | WVN | C38-C34-C33 | -4.99 | 110.22 | 118.08 |
| 32 | K | 103 | WVN | C20-C13-C15 | -4.98 | 109.40 | 121.46 |
| 40 | m | 611 | KC2 | CMD-C2D-C1D | 4.98 | 136.12 | 128.46 |
| 29 | B | 815 | CLA | CMB-C2B-C1B | -4.98 | 120.81 | 128.46 |
| 38 | l | 314 | II0 | C27-C25-C23 | -4.98 | 106.98 | 116.84 |
| 38 | n | 618 | II0 | C33-C35-C39 | -4.97 | 111.31 | 118.94 |
| 40 | g | 313 | KC2 | C3C-C2C-C1C | -4.96 | 102.80 | 106.49 |
| 32 | F | 207 | WVN | C06-C13-C15 | -4.96 | 115.63 | 122.61 |
| 29 | m | 603 | CLA | CMB-C2B-C1B | -4.95 | 120.85 | 128.46 |
| 38 | d | 317 | II0 | C20-C14-C12 | -4.95 | 105.18 | 114.36 |
| 29 | m | 604 | CLA | CMB-C2B-C1B | -4.95 | 120.85 | 128.46 |
| 40 | s | 401 | KC2 | C3C-C2C-C1C | -4.95 | 102.81 | 106.49 |
| 32 | A | 845 | WVN | C27-C25-C23 | -4.95 | 110.28 | 118.08 |
| 38 | k | 620 | II0 | C31-C29-C25 | -4.95 | 112.22 | 126.58 |
| 38 | b | 301 | II0 | C20-C14-C12 | -4.94 | 105.20 | 114.36 |
| 40 | g | 313 | KC2 | CMD-C2D-C1D | 4.94 | 136.05 | 128.46 |
| 32 | I | 101 | WVN | C27-C25-C23 | -4.94 | 110.30 | 118.08 |
| 38 | h | 310 | II0 | C30-C32-C34 | -4.93 | 107.82 | 123.22 |
| 29 | g | 309 | CLA | CMB-C2B-C1B | -4.93 | 120.89 | 128.46 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 40 | i | 318 | KC2 | C2A-C1A-NA | 4.93 | 117.31 | 109.40 |
| 38 | d | 301 | II0 | C38-C36-C34 | -4.93 | 110.31 | 118.08 |
| 40 | g | 315 | KC2 | CMD-C2D-C1D | 4.93 | 136.03 | 128.46 |
| 32 | s | 407 | WVN | C23-C20-C13 | -4.92 | 113.37 | 127.20 |
| 38 | m | 614 | II0 | C30-C32-C34 | -4.92 | 107.85 | 123.22 |
| 40 | m | 611 | KC2 | C2A-C1A-NA | 4.92 | 117.29 | 109.40 |
| 40 | l | 311 | KC2 | CMD-C2D-C1D | 4.92 | 136.02 | 128.46 |
| 32 | A | 854 | WVN | C27-C25-C23 | -4.92 | 110.33 | 118.08 |
| 38 | j | 315 | II0 | C33-C35-C39 | -4.91 | 111.40 | 118.94 |
| 40 | d | 311 | KC2 | CMD-C2D-C1D | 4.91 | 136.00 | 128.46 |
| 29 | A | 827 | CLA | CMB-C2B-C1B | -4.90 | 120.93 | 128.46 |
| 38 | k | 620 | II0 | C04-C10-C14 | -4.90 | 115.71 | 122.63 |
| 29 | B | 826 | CLA | CMB-C2B-C1B | -4.90 | 120.93 | 128.46 |
| 32 | F | 205 | WVN | C02-C05-C09 | -4.90 | 115.44 | 121.47 |
| 36 | j | 319 | DGD | O3G-C3G-C2G | -4.90 | 99.09 | 110.90 |
| 29 | A | 818 | CLA | CMB-C2B-C1B | -4.90 | 120.94 | 128.46 |
| 40 | i | 310 | KC2 | C2A-C1A-NA | 4.89 | 117.25 | 109.40 |
| 32 | F | 205 | WVN | C38-C34-C33 | -4.89 | 110.36 | 118.08 |
| 32 | A | 845 | WVN | C20-C13-C15 | -4.89 | 109.61 | 121.46 |
| 40 | s | 404 | KC2 | CMD-C2D-C1D | 4.88 | 135.97 | 128.46 |
| 40 | f | 611 | KC2 | C3C-C2C-C1C | -4.88 | 102.86 | 106.49 |
| 38 | m | 615 | II0 | C30-C32-C34 | -4.87 | 108.01 | 123.22 |
| 29 | a | 303 | CLA | CMB-C2B-C1B | -4.87 | 120.98 | 128.46 |
| 38 | n | 616 | II0 | C31-C29-C25 | -4.87 | 112.44 | 126.58 |
| 38 | k | 619 | II0 | C38-C36-C34 | -4.87 | 110.41 | 118.08 |
| 29 | f | 603 | CLA | CMB-C2B-C1B | -4.87 | 120.98 | 128.46 |
| 32 | i | 315 | WVN | C27-C25-C23 | -4.87 | 110.41 | 118.08 |
| 32 | i | 315 | WVN | C28-C30-C33 | -4.87 | 108.03 | 123.22 |
| 29 | O | 201 | CLA | CMB-C2B-C1B | -4.87 | 120.99 | 128.46 |
| 40 | j | 312 | KC2 | O2D-CGD-CBD | 4.86 | 119.91 | 111.27 |
| 29 | c | 302 | CLA | CMB-C2B-C1B | -4.86 | 120.99 | 128.46 |
| 29 | l | 305 | CLA | CMB-C2B-C1B | -4.86 | 120.99 | 128.46 |
| 32 | L | 206 | WVN | C23-C20-C13 | -4.86 | 113.55 | 127.20 |
| 32 | A | 844 | WVN | C21-C15-C14 | -4.86 | 104.28 | 113.62 |
| 32 | R | 201 | WVN | C28-C30-C33 | -4.86 | 108.05 | 123.22 |
| 40 | e | 309 | KC2 | CHC-C1C-C2C | -4.86 | 117.39 | 124.98 |
| 40 | g | 313 | KC2 | C2A-C1A-NA | 4.85 | 117.19 | 109.40 |
| 29 | A | 850 | CLA | CMB-C2B-C1B | -4.85 | 121.00 | 128.46 |
| 38 | f | 618 | II0 | C38-C36-C34 | -4.85 | 110.44 | 118.08 |
| 29 | f | 602 | CLA | CMB-C2B-C1B | -4.85 | 121.01 | 128.46 |
| 38 | g | 317 | II0 | C27-C25-C23 | -4.84 | 107.25 | 116.84 |
| 40 | g | 314 | KC2 | CHC-C1C-C2C | -4.84 | 117.42 | 124.98 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | R | 201 | WVN | C38-C34-C33 | -4.84 | 110.45 | 118.08 |
| 40 | n | 611 | KC2 | C1A-NA-C4A | -4.84 | 104.53 | 106.71 |
| 38 | b | 315 | II0 | C33-C35-C39 | -4.83 | 111.53 | 118.94 |
| 38 | b | 301 | II0 | C31-C29-C25 | -4.83 | 112.56 | 126.58 |
| 38 | j | 315 | II0 | C38-C36-C34 | -4.83 | 110.47 | 118.08 |
| 38 | a | 317 | II0 | C31-C29-C25 | -4.83 | 112.57 | 126.58 |
| 38 | n | 615 | II0 | C03-C09-C13 | -4.82 | 115.83 | 122.63 |
| 32 | J | 101 | WVN | C31-C32-C36 | -4.82 | 111.54 | 118.94 |
| 32 | e | 315 | WVN | C38-C34-C33 | -4.82 | 110.48 | 118.08 |
| 32 | M | 101 | WVN | C35-C32-C31 | -4.82 | 110.48 | 118.08 |
| 38 | h | 310 | II0 | C33-C35-C39 | -4.81 | 111.56 | 118.94 |
| 32 | K | 103 | WVN | C23-C20-C13 | -4.81 | 113.70 | 127.20 |
| 32 | M | 101 | WVN | C20-C13-C15 | -4.81 | 109.82 | 121.46 |
| 32 | J | 101 | WVN | C23-C25-C28 | -4.80 | 111.58 | 118.94 |
| 40 | f | 611 | KC2 | C2A-C1A-NA | 4.79 | 117.09 | 109.40 |
| 38 | a | 313 | II0 | C19-C13-C11 | -4.79 | 105.49 | 114.36 |
| 29 | B | 819 | CLA | C4A-NA-C1A | 4.78 | 108.86 | 106.71 |
| 38 | e | 313 | II0 | C31-C29-C25 | -4.78 | 112.70 | 126.58 |
| 40 | d | 311 | KC2 | O2D-CGD-CBD | 4.78 | 119.75 | 111.27 |
| 40 | s | 404 | KC2 | C3C-C2C-C1C | -4.77 | 102.95 | 106.49 |
| 29 | B | 816 | CLA | CMB-C2B-C1B | -4.76 | 121.14 | 128.46 |
| 29 | j | 303 | CLA | CMB-C2B-C1B | -4.76 | 121.14 | 128.46 |
| 29 | B | 802 | CLA | CMB-C2B-C1B | -4.76 | 121.15 | 128.46 |
| 40 | n | 611 | KC2 | C2A-C1A-NA | 4.75 | 117.03 | 109.40 |
| 29 | A | 820 | CLA | CMB-C2B-C1B | -4.75 | 121.16 | 128.46 |
| 29 | m | 602 | CLA | CMB-C2B-C1B | -4.75 | 121.16 | 128.46 |
| 38 | k | 615 | II0 | C20-C14-C12 | -4.75 | 105.56 | 114.36 |
| 38 | d | 315 | II0 | C12-C14-C10 | -4.75 | 109.79 | 120.57 |
| 38 | b | 301 | II0 | C03-C09-C13 | -4.75 | 115.93 | 122.63 |
| 38 | i | 319 | II0 | C12-C14-C10 | -4.74 | 109.80 | 120.57 |
| 38 | d | 315 | II0 | C20-C14-C12 | -4.74 | 105.57 | 114.36 |
| 38 | J | 103 | II0 | C31-C29-C25 | -4.74 | 112.82 | 126.58 |
| 40 | l | 311 | KC2 | C2C-C1C-NC | 4.74 | 115.75 | 110.57 |
| 38 | d | 315 | II0 | C17-C04-C10 | 4.74 | 117.99 | 110.47 |
| 38 | l | 314 | II0 | C31-C29-C25 | -4.73 | 112.84 | 126.58 |
| 38 | e | 314 | II0 | C32-C30-C26 | -4.73 | 112.84 | 126.58 |
| 32 | L | 201 | WVN | C23-C25-C28 | -4.73 | 111.68 | 118.94 |
| 40 | d | 311 | KC2 | CBA-CAA-C2A | -4.73 | 107.24 | 125.27 |
| 29 | c | 307 | CLA | CMB-C2B-C1B | -4.73 | 121.20 | 128.46 |
| 40 | m | 611 | KC2 | CHC-C1C-C2C | -4.72 | 117.60 | 124.98 |
| 38 | k | 616 | II0 | C11-C13-C09 | -4.72 | 109.85 | 120.57 |
| 38 | h | 311 | II0 | C31-C29-C25 | -4.72 | 112.88 | 126.58 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | B | 849 | WVN | C27-C25-C23 | -4.72 | 110.64 | 118.08 |
| 29 | e | 306 | CLA | CMB-C2B-C1B | -4.72 | 121.21 | 128.46 |
| 29 | A | 834 | CLA | CMB-C2B-C3B | 4.71 | 133.50 | 124.68 |
| 29 | b | 303 | CLA | CMB-C2B-C1B | -4.71 | 121.22 | 128.46 |
| 38 | n | 615 | II0 | C38-C36-C34 | -4.71 | 110.66 | 118.08 |
| 40 | g | 313 | KC2 | CHC-C1C-C2C | -4.71 | 117.62 | 124.98 |
| 32 | M | 101 | WVN | C23-C20-C13 | -4.71 | 113.98 | 127.20 |
| 40 | n | 611 | KC2 | CBA-CAA-C2A | -4.71 | 107.32 | 125.27 |
| 29 | B | 819 | CLA | CMB-C2B-C1B | -4.71 | 121.23 | 128.46 |
| 40 | g | 315 | KC2 | C2A-C1A-NA | 4.71 | 116.95 | 109.40 |
| 29 | j | 305 | CLA | CMB-C2B-C1B | -4.70 | 121.23 | 128.46 |
| 32 | J | 101 | WVN | C20-C13-C15 | -4.70 | 110.08 | 121.46 |
| 38 | h | 310 | II0 | C38-C36-C34 | -4.70 | 110.67 | 118.08 |
| 40 | s | 401 | KC2 | C2A-C1A-NA | 4.70 | 116.94 | 109.40 |
| 38 | g | 318 | II0 | C27-C25-C23 | -4.70 | 107.53 | 116.84 |
| 29 | d | 303 | CLA | CMB-C2B-C3B | 4.70 | 133.46 | 124.68 |
| 38 | f | 618 | II0 | C31-C29-C25 | -4.69 | 112.96 | 126.58 |
| 32 | B | 846 | WVN | C21-C15-C14 | -4.69 | 104.61 | 113.62 |
| 40 | g | 315 | KC2 | C3C-C2C-C1C | -4.69 | 103.01 | 106.49 |
| 32 | B | 847 | WVN | C33-C34-C37 | -4.69 | 111.75 | 118.94 |
| 38 | a | 314 | II0 | C31-C29-C25 | -4.69 | 112.97 | 126.58 |
| 40 | j | 312 | KC2 | C2C-C1C-NC | 4.69 | 115.69 | 110.57 |
| 38 | i | 314 | II0 | C04-C10-C14 | -4.68 | 116.03 | 122.63 |
| 29 | B | 833 | CLA | CMB-C2B-C3B | 4.68 | 133.43 | 124.68 |
| 29 | s | 406 | CLA | CMB-C2B-C1B | -4.68 | 121.27 | 128.46 |
| 32 | l | 316 | WVN | C14-C15-C13 | -4.67 | 115.95 | 122.73 |
| 29 | f | 608 | CLA | CMB-C2B-C3B | 4.67 | 133.42 | 124.68 |
| 38 | f | 615 | II0 | C28-C26-C24 | -4.67 | 107.59 | 116.84 |
| 38 | g | 318 | II0 | C04-C10-C14 | -4.67 | 116.04 | 122.63 |
| 32 | e | 315 | WVN | C28-C30-C33 | -4.66 | 108.67 | 123.22 |
| 32 | A | 846 | WVN | C31-C32-C36 | -4.66 | 111.79 | 118.94 |
| 32 | B | 845 | WVN | C20-C23-C25 | -4.66 | 119.19 | 126.23 |
| 38 | k | 616 | II0 | C27-C25-C23 | -4.66 | 107.61 | 116.84 |
| 40 | l | 311 | KC2 | CHC-C1C-C2C | -4.66 | 117.70 | 124.98 |
| 38 | h | 309 | II0 | C03-C09-C13 | -4.65 | 116.06 | 122.63 |
| 38 | f | 618 | II0 | C04-C10-C14 | -4.65 | 116.06 | 122.63 |
| 29 | R | 203 | CLA | CAA-C2A-C3A | -4.65 | 100.05 | 112.78 |
| 29 | B | 833 | CLA | C4A-NA-C1A | 4.65 | 108.80 | 106.71 |
| 38 | l | 315 | II0 | C27-C25-C23 | -4.64 | 107.65 | 116.84 |
| 38 | i | 319 | II0 | C28-C26-C24 | -4.64 | 107.65 | 116.84 |
| 32 | R | 201 | WVN | C14-C15-C13 | -4.64 | 116.00 | 122.73 |
| 29 | A | 815 | CLA | CMB-C2B-C1B | -4.64 | 121.34 | 128.46 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | b | 301 | II0 | C04-C10-C14 | -4.63 | 116.09 | 122.63 |
| 38 | j | 316 | II0 | C31-C29-C25 | -4.63 | 113.13 | 126.58 |
| 40 | g | 314 | KC2 | CBA-CAA-C2A | -4.63 | 107.61 | 125.27 |
| 29 | A | 802 | CLA | CMB-C2B-C3B | 4.63 | 133.34 | 124.68 |
| 38 | l | 315 | II0 | C16-C03-C09 | 4.63 | 117.82 | 110.47 |
| 40 | m | 611 | KC2 | C2C-C1C-NC | 4.63 | 115.63 | 110.57 |
| 38 | b | 301 | II0 | C28-C26-C24 | -4.63 | 107.67 | 116.84 |
| 38 | k | 620 | II0 | C30-C32-C34 | -4.63 | 108.77 | 123.22 |
| 32 | L | 205 | WVN | C31-C32-C36 | -4.62 | 111.85 | 118.94 |
| 38 | a | 317 | II0 | C38-C36-C34 | -4.62 | 110.80 | 118.08 |
| 32 | l | 316 | WVN | C16-C05-C09 | -4.61 | 105.92 | 122.33 |
| 40 | f | 611 | KC2 | CHC-C1C-C2C | -4.61 | 117.77 | 124.98 |
| 29 | A | 813 | CLA | CMB-C2B-C1B | -4.61 | 121.37 | 128.46 |
| 32 | R | 201 | WVN | C31-C32-C36 | -4.61 | 111.86 | 118.94 |
| 38 | g | 318 | II0 | C28-C26-C24 | -4.61 | 107.71 | 116.84 |
| 38 | f | 614 | II0 | C27-C25-C23 | -4.61 | 107.71 | 116.84 |
| 32 | F | 204 | WVN | C23-C25-C28 | -4.61 | 111.87 | 118.94 |
| 29 | b | 304 | CLA | CMB-C2B-C3B | 4.61 | 133.30 | 124.68 |
| 38 | e | 314 | II0 | C19-C13-C11 | -4.61 | 105.82 | 114.36 |
| 32 | B | 846 | WVN | C06-C13-C15 | -4.60 | 116.13 | 122.61 |
| 38 | J | 103 | II0 | C33-C35-C39 | -4.60 | 111.88 | 118.94 |
| 29 | l | 304 | CLA | CMB-C2B-C1B | -4.60 | 121.39 | 128.46 |
| 32 | h | 308 | WVN | C20-C13-C15 | -4.60 | 110.33 | 121.46 |
| 38 | i | 316 | II0 | C32-C30-C26 | -4.59 | 113.24 | 126.58 |
| 32 | l | 316 | WVN | C31-C32-C36 | -4.59 | 111.90 | 118.94 |
| 32 | l | 316 | WVN | C24-C22-C19 | -4.59 | 110.85 | 118.08 |
| 32 | A | 854 | WVN | C14-C15-C13 | -4.59 | 116.07 | 122.73 |
| 38 | d | 317 | II0 | C32-C30-C26 | -4.58 | 113.28 | 126.58 |
| 40 | e | 309 | KC2 | O2D-CGD-CBD | 4.58 | 119.40 | 111.27 |
| 29 | B | 812 | CLA | CMB-C2B-C1B | -4.58 | 121.43 | 128.46 |
| 32 | K | 103 | WVN | C16-C05-C09 | -4.58 | 106.05 | 122.33 |
| 40 | s | 401 | KC2 | CBC-CAC-C3C | -4.58 | 104.85 | 127.62 |
| 38 | d | 315 | II0 | C33-C35-C39 | -4.57 | 111.92 | 118.94 |
| 40 | s | 404 | KC2 | C2C-C1C-NC | 4.57 | 115.56 | 110.57 |
| 38 | d | 301 | II0 | C32-C30-C26 | -4.57 | 113.30 | 126.58 |
| 40 | k | 611 | KC2 | C2A-C1A-NA | 4.57 | 116.73 | 109.40 |
| 38 | m | 618 | II0 | C06-C04-C10 | 4.57 | 118.88 | 109.62 |
| 38 | m | 618 | II0 | C31-C29-C25 | -4.57 | 113.32 | 126.58 |
| 40 | m | 611 | KC2 | C3C-C2C-C1C | -4.56 | 103.10 | 106.49 |
| 29 | A | 824 | CLA | CMB-C2B-C1B | -4.56 | 121.46 | 128.46 |
| 40 | g | 315 | KC2 | C1A-NA-C4A | -4.56 | 104.66 | 106.71 |
| 38 | f | 615 | II0 | C04-C10-C14 | -4.55 | 116.21 | 122.63 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | i | 313 | II0 | C33-C35-C39 | -4.55 | 111.96 | 118.94 |
| 38 | m | 618 | II0 | C04-C10-C14 | -4.55 | 116.21 | 122.63 |
| 38 | a | 313 | II0 | C38-C36-C34 | -4.54 | 110.92 | 118.08 |
| 40 | g | 314 | KC2 | C2C-C1C-NC | 4.54 | 115.53 | 110.57 |
| 38 | j | 316 | II0 | C28-C26-C24 | -4.53 | 107.86 | 116.84 |
| 32 | F | 207 | WVN | C23-C20-C13 | -4.53 | 114.49 | 127.20 |
| 38 | a | 315 | II0 | C33-C35-C39 | -4.52 | 112.00 | 118.94 |
| 32 | B | 848 | WVN | C23-C20-C13 | -4.52 | 114.51 | 127.20 |
| 29 | B | 842 | CLA | CMB-C2B-C1B | -4.52 | 121.52 | 128.46 |
| 29 | c | 303 | CLA | CMB-C2B-C3B | 4.51 | 133.11 | 124.68 |
| 32 | l | 302 | WVN | C14-C15-C13 | -4.51 | 116.19 | 122.73 |
| 32 | L | 205 | WVN | C23-C20-C13 | -4.50 | 114.55 | 127.20 |
| 38 | a | 313 | II0 | C30-C32-C34 | -4.50 | 109.16 | 123.22 |
| 38 | j | 316 | II0 | C30-C32-C34 | -4.50 | 109.16 | 123.22 |
| 29 | A | 817 | CLA | CMB-C2B-C1B | -4.50 | 121.55 | 128.46 |
| 38 | f | 615 | II0 | C30-C32-C34 | -4.50 | 109.18 | 123.22 |
| 32 | A | 847 | WVN | C28-C30-C33 | -4.50 | 109.18 | 123.22 |
| 32 | J | 101 | WVN | C33-C34-C37 | -4.50 | 112.04 | 118.94 |
| 29 | b | 308 | CLA | CMB-C2B-C1B | -4.50 | 121.55 | 128.46 |
| 29 | f | 613 | CLA | CMB-C2B-C3B | 4.50 | 133.09 | 124.68 |
| 38 | i | 313 | II0 | C31-C29-C25 | -4.50 | 113.53 | 126.58 |
| 38 | k | 619 | II0 | C19-C13-C11 | -4.49 | 106.03 | 114.36 |
| 38 | d | 301 | II0 | C04-C10-C14 | -4.49 | 116.29 | 122.63 |
| 40 | e | 309 | KC2 | C2C-C1C-NC | 4.49 | 115.47 | 110.57 |
| 40 | g | 313 | KC2 | C2C-C1C-NC | 4.49 | 115.47 | 110.57 |
| 38 | d | 301 | II0 | C30-C32-C34 | -4.49 | 109.21 | 123.22 |
| 40 | g | 313 | KC2 | CBC-CAC-C3C | -4.49 | 105.29 | 127.62 |
| 38 | e | 312 | II0 | C31-C29-C25 | -4.49 | 113.56 | 126.58 |
| 29 | l | 308 | CLA | CMB-C2B-C1B | -4.48 | 121.58 | 128.46 |
| 40 | s | 404 | KC2 | CHC-C1C-C2C | -4.48 | 117.98 | 124.98 |
| 32 | L | 201 | WVN | C16-C05-C09 | -4.48 | 106.39 | 122.33 |
| 38 | j | 301 | II0 | C30-C32-C34 | -4.48 | 109.23 | 123.22 |
| 38 | a | 313 | II0 | C31-C29-C25 | -4.48 | 113.57 | 126.58 |
| 29 | B | 827 | CLA | CMB-C2B-C3B | 4.48 | 133.05 | 124.68 |
| 32 | l | 316 | WVN | C23-C25-C28 | -4.47 | 112.08 | 118.94 |
| 29 | g | 306 | CLA | CMB-C2B-C1B | -4.47 | 121.59 | 128.46 |
| 29 | A | 814 | CLA | CMB-C2B-C1B | -4.47 | 121.60 | 128.46 |
| 38 | g | 318 | II0 | C31-C29-C25 | -4.47 | 113.61 | 126.58 |
| 29 | A | 840 | CLA | CMB-C2B-C1B | -4.46 | 121.61 | 128.46 |
| 32 | B | 849 | WVN | C28-C30-C33 | -4.46 | 109.30 | 123.22 |
| 29 | A | 827 | CLA | CMB-C2B-C3B | 4.46 | 133.02 | 124.68 |
| 40 | f | 611 | KC2 | C2C-C1C-NC | 4.46 | 115.44 | 110.57 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | e | 315 | WVN | C16-C05-C09 | -4.45 | 106.49 | 122.33 |
| 32 | h | 308 | WVN | C16-C05-C09 | -4.44 | 106.52 | 122.33 |
| 29 | B | 809 | CLA | CMB-C2B-C1B | -4.44 | 121.64 | 128.46 |
| 40 | k | 611 | KC2 | C3C-C2C-C1C | -4.44 | 103.19 | 106.49 |
| 32 | A | 844 | WVN | C06-C13-C15 | -4.44 | 116.36 | 122.61 |
| 29 | g | 309 | CLA | CMB-C2B-C3B | 4.44 | 132.98 | 124.68 |
| 38 | n | 615 | II0 | C31-C29-C25 | -4.44 | 113.69 | 126.58 |
| 38 | m | 615 | II0 | C31-C29-C25 | -4.44 | 113.70 | 126.58 |
| 40 | i | 310 | KC2 | CBC-CAC-C3C | -4.43 | 105.56 | 127.62 |
| 32 | I | 101 | WVN | C31-C32-C36 | -4.43 | 112.14 | 118.94 |
| 40 | f | 611 | KC2 | CBC-CAC-C3C | -4.42 | 105.63 | 127.62 |
| 38 | h | 309 | II0 | C19-C13-C11 | -4.42 | 106.17 | 114.36 |
| 29 | e | 310 | CLA | CMB-C2B-C1B | -4.42 | 121.67 | 128.46 |
| 38 | b | 315 | II0 | C38-C36-C34 | -4.42 | 111.11 | 118.08 |
| 29 | A | 825 | CLA | CMB-C2B-C1B | -4.42 | 121.67 | 128.46 |
| 32 | l | 302 | WVN | C28-C30-C33 | -4.42 | 109.43 | 123.22 |
| 40 | l | 311 | KC2 | C2A-C1A-NA | 4.42 | 116.48 | 109.40 |
| 32 | A | 844 | WVN | C23-C20-C13 | -4.41 | 114.80 | 127.20 |
| 29 | g | 311 | CLA | CMB-C2B-C1B | -4.41 | 121.68 | 128.46 |
| 40 | l | 311 | KC2 | CBA-CAA-C2A | -4.41 | 108.45 | 125.27 |
| 38 | n | 618 | II0 | C04-C10-C14 | -4.41 | 116.40 | 122.63 |
| 29 | B | 804 | CLA | CMB-C2B-C1B | -4.41 | 121.68 | 128.46 |
| 38 | J | 103 | II0 | C28-C26-C24 | -4.41 | 108.10 | 116.84 |
| 38 | h | 311 | II0 | C19-C13-C11 | -4.41 | 106.19 | 114.36 |
| 32 | h | 308 | WVN | C28-C30-C33 | -4.41 | 109.47 | 123.22 |
| 29 | e | 303 | CLA | CMB-C2B-C3B | 4.40 | 132.92 | 124.68 |
| 38 | f | 616 | II0 | C30-C32-C34 | -4.40 | 109.48 | 123.22 |
| 38 | g | 317 | II0 | C19-C13-C11 | -4.40 | 106.20 | 114.36 |
| 29 | i | 308 | CLA | CMB-C2B-C1B | -4.40 | 121.70 | 128.46 |
| 29 | A | 812 | CLA | CMB-C2B-C1B | -4.40 | 121.71 | 128.46 |
| 38 | a | 314 | II0 | C28-C26-C24 | -4.40 | 108.13 | 116.84 |
| 32 | A | 845 | WVN | C31-C32-C36 | -4.40 | 112.19 | 118.94 |
| 40 | n | 611 | KC2 | C2C-C1C-NC | 4.39 | 115.37 | 110.57 |
| 38 | l | 314 | II0 | C04-C10-C14 | -4.39 | 116.43 | 122.63 |
| 38 | m | 615 | II0 | C27-C25-C23 | -4.39 | 108.14 | 116.84 |
| 32 | i | 315 | WVN | C16-C05-C09 | -4.39 | 106.71 | 122.33 |
| 32 | A | 847 | WVN | C16-C05-C09 | -4.39 | 106.72 | 122.33 |
| 38 | a | 313 | II0 | C27-C25-C23 | -4.39 | 108.15 | 116.84 |
| 40 | i | 318 | KC2 | C2C-C1C-NC | 4.38 | 115.36 | 110.57 |
| 38 | c | 313 | II0 | C28-C26-C24 | -4.38 | 108.16 | 116.84 |
| 38 | k | 620 | II0 | C33-C35-C39 | -4.38 | 112.22 | 118.94 |
| 32 | F | 207 | WVN | C23-C25-C28 | -4.38 | 112.22 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 805 | CLA | CMB-C2B-C1B | -4.37 | 121.74 | 128.46 |
| 29 | B | 829 | CLA | CMB-C2B-C3B | 4.37 | 132.86 | 124.68 |
| 40 | c | 310 | KC2 | CBC-CAC-C3C | -4.37 | 105.88 | 127.62 |
| 32 | F | 207 | WVN | C16-C05-C09 | -4.37 | 106.80 | 122.33 |
| 32 | h | 308 | WVN | C06-C13-C15 | -4.37 | 116.46 | 122.61 |
| 38 | f | 616 | II0 | C33-C35-C39 | -4.36 | 112.25 | 118.94 |
| 38 | e | 313 | II0 | C06-C04-C10 | 4.36 | 118.46 | 109.62 |
| 38 | m | 616 | II0 | C33-C35-C39 | -4.36 | 112.25 | 118.94 |
| 31 | s | 408 | LHG | O3-P-O6 | -4.36 | 95.14 | 106.73 |
| 38 | m | 618 | II0 | C33-C35-C39 | -4.36 | 112.26 | 118.94 |
| 32 | B | 847 | WVN | C06-C13-C15 | -4.36 | 116.48 | 122.61 |
| 32 | B | 849 | WVN | C31-C32-C36 | -4.35 | 112.26 | 118.94 |
| 40 | g | 315 | KC2 | O2D-CGD-CBD | 4.35 | 119.00 | 111.27 |
| 32 | J | 101 | WVN | C16-C05-C09 | -4.35 | 106.85 | 122.33 |
| 38 | m | 616 | II0 | C31-C29-C25 | -4.35 | 113.94 | 126.58 |
| 32 | F | 204 | WVN | C16-C05-C09 | -4.35 | 106.85 | 122.33 |
| 32 | F | 204 | WVN | C28-C30-C33 | -4.35 | 109.64 | 123.22 |
| 29 | A | 804 | CLA | CMB-C2B-C1B | -4.35 | 121.78 | 128.46 |
| 29 | a | 305 | CLA | CMB-C2B-C1B | -4.35 | 121.78 | 128.46 |
| 32 | s | 407 | WVN | C31-C32-C36 | -4.35 | 112.27 | 118.94 |
| 29 | k | 603 | CLA | CMB-C2B-C3B | 4.34 | 132.80 | 124.68 |
| 38 | b | 314 | II0 | C30-C32-C34 | -4.34 | 109.66 | 123.22 |
| 32 | R | 201 | WVN | C23-C20-C13 | -4.34 | 115.01 | 127.20 |
| 40 | g | 314 | KC2 | C2A-C1A-NA | 4.34 | 116.36 | 109.40 |
| 38 | k | 616 | II0 | C31-C29-C25 | -4.34 | 113.98 | 126.58 |
| 40 | e | 309 | KC2 | CBC-CAC-C3C | -4.34 | 106.03 | 127.62 |
| 38 | d | 315 | II0 | C03-C09-C13 | -4.34 | 116.51 | 122.63 |
| 38 | e | 314 | II0 | C03-C09-C13 | -4.34 | 116.51 | 122.63 |
| 29 | f | 604 | CLA | CMB-C2B-C1B | -4.34 | 121.80 | 128.46 |
| 32 | B | 848 | WVN | C28-C30-C33 | -4.34 | 109.69 | 123.22 |
| 32 | i | 315 | WVN | C38-C34-C33 | -4.33 | 111.25 | 118.08 |
| 38 | e | 312 | II0 | C03-C09-C13 | -4.33 | 116.52 | 122.63 |
| 40 | c | 310 | KC2 | CAA-CBA-CGA | -4.33 | 105.02 | 127.26 |
| 38 | d | 316 | II0 | C03-C09-C13 | -4.33 | 116.52 | 122.63 |
| 32 | B | 847 | WVN | C23-C25-C28 | -4.32 | 112.31 | 118.94 |
| 38 | l | 313 | II0 | C27-C25-C23 | -4.32 | 108.28 | 116.84 |
| 38 | f | 618 | II0 | C06-C04-C10 | 4.32 | 118.37 | 109.62 |
| 38 | n | 616 | II0 | C11-C13-C09 | -4.31 | 110.78 | 120.57 |
| 29 | h | 302 | CLA | CMB-C2B-C1B | -4.31 | 121.84 | 128.46 |
| 38 | m | 615 | II0 | C04-C10-C14 | -4.31 | 116.55 | 122.63 |
| 38 | l | 315 | II0 | C31-C29-C25 | -4.31 | 114.07 | 126.58 |
| 29 | L | 204 | CLA | CMB-C2B-C1B | -4.31 | 121.84 | 128.46 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 839 | CLA | CMB-C2B-C3B | 4.31 | 132.73 | 124.68 |
| 29 | A | 816 | CLA | CMB-C2B-C1B | -4.30 | 121.85 | 128.46 |
| 38 | g | 317 | II0 | C05-C03-C09 | 4.30 | 118.34 | 109.62 |
| 38 | a | 314 | II0 | C27-C25-C23 | -4.30 | 108.32 | 116.84 |
| 38 | i | 314 | II0 | C31-C29-C25 | -4.30 | 114.09 | 126.58 |
| 40 | s | 404 | KC2 | CMA-C3A-C2A | -4.30 | 117.78 | 128.30 |
| 38 | m | 615 | II0 | C42-C40-C36 | -4.30 | 121.18 | 127.31 |
| 38 | n | 615 | II0 | C30-C32-C34 | -4.30 | 109.81 | 123.22 |
| 38 | n | 616 | II0 | C20-C14-C12 | -4.29 | 106.40 | 114.36 |
| 38 | l | 314 | II0 | C28-C26-C24 | -4.29 | 108.34 | 116.84 |
| 38 | k | 615 | II0 | C12-C14-C10 | -4.29 | 110.83 | 120.57 |
| 40 | m | 611 | KC2 | CBC-CAC-C3C | -4.29 | 106.28 | 127.62 |
| 38 | k | 615 | II0 | C04-C10-C14 | -4.28 | 116.58 | 122.63 |
| 32 | J | 101 | WVN | C28-C30-C33 | -4.28 | 109.85 | 123.22 |
| 32 | F | 205 | WVN | C19-C22-C26 | -4.28 | 112.37 | 118.94 |
| 38 | d | 315 | II0 | C27-C25-C23 | -4.28 | 108.36 | 116.84 |
| 40 | e | 309 | KC2 | C1A-NA-C4A | -4.28 | 104.78 | 106.71 |
| 29 | B | 802 | CLA | CMB-C2B-C3B | 4.28 | 132.68 | 124.68 |
| 40 | i | 310 | KC2 | CBA-CAA-C2A | -4.28 | 108.97 | 125.27 |
| 38 | j | 315 | II0 | C32-C30-C26 | -4.27 | 114.17 | 126.58 |
| 29 | A | 807 | CLA | CMB-C2B-C1B | -4.27 | 121.90 | 128.46 |
| 32 | B | 847 | WVN | C14-C15-C13 | -4.27 | 116.53 | 122.73 |
| 38 | n | 618 | II0 | C32-C30-C26 | -4.26 | 114.20 | 126.58 |
| 29 | g | 305 | CLA | CMB-C2B-C3B | 4.26 | 132.65 | 124.68 |
| 40 | d | 311 | KC2 | C1A-NA-C4A | -4.26 | 104.79 | 106.71 |
| 32 | h | 308 | WVN | C14-C15-C13 | -4.26 | 116.55 | 122.73 |
| 38 | m | 615 | II0 | C03-C09-C13 | -4.26 | 116.62 | 122.63 |
| 32 | L | 205 | WVN | C16-C05-C09 | -4.25 | 107.20 | 122.33 |
| 29 | B | 817 | CLA | CMB-C2B-C1B | -4.25 | 121.93 | 128.46 |
| 38 | c | 313 | II0 | C19-C13-C11 | -4.25 | 106.48 | 114.36 |
| 32 | A | 846 | WVN | C16-C05-C09 | -4.25 | 107.21 | 122.33 |
| 32 | F | 204 | WVN | C20-C13-C15 | -4.25 | 111.17 | 121.46 |
| 29 | A | 803 | CLA | CMB-C2B-C1B | -4.25 | 121.94 | 128.46 |
| 38 | J | 103 | II0 | C30-C32-C34 | -4.25 | 109.96 | 123.22 |
| 31 | A | 848 | LHG | O4-P-O5 | 4.25 | 133.23 | 112.24 |
| 38 | d | 317 | II0 | C31-C29-C25 | -4.24 | 114.26 | 126.58 |
| 31 | a | 301 | LHG | O4-P-O5 | 4.24 | 133.20 | 112.24 |
| 40 | s | 404 | KC2 | C4B-C3B-C2B | -4.24 | 103.27 | 106.75 |
| 38 | l | 313 | II0 | C34-C36-C40 | -4.24 | 112.44 | 118.94 |
| 29 | j | 304 | CLA | CMB-C2B-C3B | 4.24 | 132.60 | 124.68 |
| 38 | b | 315 | II0 | C19-C13-C11 | -4.24 | 106.51 | 114.36 |
| 38 | i | 319 | II0 | C31-C29-C25 | -4.23 | 114.29 | 126.58 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | n | 615 | II0 | C19-C13-C11 | -4.23 | 106.51 | 114.36 |
| 38 | m | 618 | II0 | C20-C14-C12 | -4.23 | 106.51 | 114.36 |
| 32 | A | 845 | WVN | C23-C20-C13 | -4.23 | 115.32 | 127.20 |
| 40 | s | 401 | KC2 | C1A-NA-C4A | -4.23 | 104.81 | 106.71 |
| 29 | A | 850 | CLA | CMB-C2B-C3B | 4.23 | 132.59 | 124.68 |
| 40 | i | 318 | KC2 | CBC-CAC-C3C | -4.23 | 106.59 | 127.62 |
| 40 | i | 310 | KC2 | CHC-C1C-C2C | -4.22 | 118.38 | 124.98 |
| 40 | n | 611 | KC2 | C3C-C2C-C1C | -4.22 | 103.35 | 106.49 |
| 31 | c | 320 | LHG | O4-P-O5 | 4.22 | 133.12 | 112.24 |
| 38 | f | 615 | II0 | C31-C29-C25 | -4.22 | 114.32 | 126.58 |
| 32 | l | 302 | WVN | C24-C22-C19 | -4.22 | 111.43 | 118.08 |
| 32 | A | 854 | WVN | C16-C05-C09 | -4.22 | 107.33 | 122.33 |
| 38 | a | 317 | II0 | C33-C35-C39 | -4.22 | 112.47 | 118.94 |
| 40 | g | 315 | KC2 | C2C-C1C-NC | 4.22 | 115.17 | 110.57 |
| 32 | B | 847 | WVN | C28-C30-C33 | -4.21 | 110.07 | 123.22 |
| 31 | i | 317 | LHG | O4-P-O5 | 4.21 | 133.06 | 112.24 |
| 31 | J | 104 | LHG | O4-P-O5 | 4.21 | 133.04 | 112.24 |
| 40 | s | 401 | KC2 | CMD-C2D-C1D | 4.20 | 134.92 | 128.46 |
| 31 | a | 318 | LHG | O4-P-O5 | 4.20 | 133.01 | 112.24 |
| 38 | m | 615 | II0 | C33-C35-C39 | -4.20 | 112.50 | 118.94 |
| 31 | L | 209 | LHG | O4-P-O5 | 4.20 | 132.99 | 112.24 |
| 31 | n | 619 | LHG | O4-P-O5 | 4.20 | 132.99 | 112.24 |
| 38 | n | 616 | II0 | C30-C32-C34 | -4.20 | 110.12 | 123.22 |
| 40 | n | 611 | KC2 | O2D-CGD-CBD | 4.20 | 118.72 | 111.27 |
| 29 | a | 303 | CLA | CMB-C2B-C3B | 4.20 | 132.53 | 124.68 |
| 40 | g | 315 | KC2 | CHC-C1C-C2C | -4.19 | 118.43 | 124.98 |
| 40 | s | 401 | KC2 | C2C-C1C-NC | 4.19 | 115.15 | 110.57 |
| 31 | m | 619 | LHG | O4-P-O5 | 4.19 | 132.96 | 112.24 |
| 32 | A | 854 | WVN | C20-C13-C15 | -4.19 | 111.31 | 121.46 |
| 38 | d | 315 | II0 | C04-C10-C14 | -4.19 | 116.72 | 122.63 |
| 38 | m | 614 | II0 | C19-C13-C11 | -4.19 | 106.59 | 114.36 |
| 31 | g | 301 | LHG | O4-P-O5 | 4.19 | 132.94 | 112.24 |
| 29 | A | 821 | CLA | CMB-C2B-C1B | -4.19 | 122.03 | 128.46 |
| 38 | m | 614 | II0 | C27-C25-C23 | -4.18 | 108.55 | 116.84 |
| 32 | I | 101 | WVN | C28-C30-C33 | -4.18 | 110.16 | 123.22 |
| 40 | s | 404 | KC2 | C2A-C1A-NA | 4.18 | 116.11 | 109.40 |
| 32 | h | 308 | WVN | C31-C32-C36 | -4.18 | 112.52 | 118.94 |
| 38 | k | 619 | II0 | C28-C26-C24 | -4.18 | 108.56 | 116.84 |
| 31 | l | 318 | LHG | O4-P-O5 | 4.18 | 132.91 | 112.24 |
| 38 | e | 314 | II0 | C30-C32-C34 | -4.18 | 110.17 | 123.22 |
| 35 | A | 853 | SQD | O7-S-C6 | 4.18 | 111.91 | 106.94 |
| 31 | f | 620 | LHG | O4-P-O5 | 4.18 | 132.90 | 112.24 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | n | 604 | CLA | CMB-C2B-C1B | -4.18 | 122.04 | 128.46 |
| 38 | a | 317 | II0 | C04-C10-C14 | -4.18 | 116.73 | 122.63 |
| 40 | k | 611 | KC2 | CHC-C1C-C2C | -4.18 | 118.45 | 124.98 |
| 31 | L | 208 | LHG | O4-P-O5 | 4.17 | 132.88 | 112.24 |
| 32 | L | 201 | WVN | C23-C20-C13 | -4.17 | 115.48 | 127.20 |
| 29 | c | 302 | CLA | CMB-C2B-C3B | 4.17 | 132.49 | 124.68 |
| 29 | j | 314 | CLA | CMB-C2B-C1B | -4.17 | 122.05 | 128.46 |
| 35 | A | 853 | SQD | O47-C7-C8 | 4.17 | 120.50 | 111.50 |
| 31 | f | 619 | LHG | O4-P-O5 | 4.17 | 132.87 | 112.24 |
| 40 | m | 611 | KC2 | C1A-NA-C4A | -4.17 | 104.83 | 106.71 |
| 31 | b | 318 | LHG | O4-P-O5 | 4.17 | 132.87 | 112.24 |
| 31 | j | 318 | LHG | O4-P-O5 | 4.17 | 132.85 | 112.24 |
| 29 | d | 305 | CLA | CMB-C2B-C1B | -4.17 | 122.06 | 128.46 |
| 29 | B | 815 | CLA | CMB-C2B-C3B | 4.17 | 132.47 | 124.68 |
| 40 | d | 311 | KC2 | C2C-C1C-NC | 4.16 | 115.12 | 110.57 |
| 38 | m | 616 | II0 | C27-C25-C23 | -4.16 | 108.59 | 116.84 |
| 31 | A | 842 | LHG | O4-P-O5 | 4.16 | 132.82 | 112.24 |
| 32 | B | 848 | WVN | C20-C13-C15 | -4.16 | 111.38 | 121.46 |
| 32 | F | 205 | WVN | C33-C34-C37 | -4.16 | 112.56 | 118.94 |
| 31 | e | 317 | LHG | O4-P-O5 | 4.16 | 132.81 | 112.24 |
| 31 | c | 316 | LHG | O4-P-O5 | 4.16 | 132.80 | 112.24 |
| 38 | m | 615 | II0 | C05-C03-C09 | 4.15 | 118.04 | 109.62 |
| 38 | d | 316 | II0 | C04-C10-C14 | -4.15 | 116.77 | 122.63 |
| 40 | g | 315 | KC2 | CBA-CAA-C2A | -4.15 | 109.44 | 125.27 |
| 38 | i | 313 | II0 | C06-C04-C10 | 4.15 | 118.04 | 109.62 |
| 32 | M | 101 | WVN | C28-C30-C33 | -4.15 | 110.26 | 123.22 |
| 40 | f | 611 | KC2 | CBA-CAA-C2A | -4.15 | 109.44 | 125.27 |
| 31 | g | 322 | LHG | O4-P-O5 | 4.15 | 132.76 | 112.24 |
| 29 | B | 822 | CLA | CMB-C2B-C1B | -4.15 | 122.08 | 128.46 |
| 29 | f | 603 | CLA | CMB-C2B-C3B | 4.15 | 132.44 | 124.68 |
| 40 | s | 401 | KC2 | CHC-C1C-C2C | -4.15 | 118.50 | 124.98 |
| 38 | b | 301 | II0 | C30-C32-C34 | -4.15 | 110.27 | 123.22 |
| 31 | A | 843 | LHG | O4-P-O5 | 4.15 | 132.75 | 112.24 |
| 32 | i | 315 | WVN | C31-C32-C36 | -4.15 | 112.58 | 118.94 |
| 32 | F | 205 | WVN | C23-C20-C13 | -4.14 | 115.56 | 127.20 |
| 29 | l | 305 | CLA | CMB-C2B-C3B | 4.14 | 132.43 | 124.68 |
| 29 | d | 302 | CLA | CMB-C2B-C1B | -4.14 | 122.10 | 128.46 |
| 32 | l | 302 | WVN | C06-C13-C15 | -4.14 | 116.79 | 122.61 |
| 38 | m | 618 | II0 | C27-C25-C23 | -4.13 | 108.65 | 116.84 |
| 29 | e | 302 | CLA | CMB-C2B-C1B | -4.13 | 122.11 | 128.46 |
| 40 | d | 311 | KC2 | CBC-CAC-C3C | -4.13 | 107.06 | 127.62 |
| 29 | m | 603 | CLA | CMB-C2B-C3B | 4.13 | 132.40 | 124.68 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 40 | c | 310 | KC2 | C3C-C2C-C1C | -4.13 | 103.42 | 106.49 |
| 29 | f | 602 | CLA | CMB-C2B-C3B | 4.13 | 132.40 | 124.68 |
| 38 | m | 614 | II0 | C20-C14-C12 | -4.13 | 106.71 | 114.36 |
| 29 | m | 604 | CLA | CMB-C2B-C3B | 4.12 | 132.39 | 124.68 |
| 29 | j | 303 | CLA | CMB-C2B-C3B | 4.12 | 132.39 | 124.68 |
| 29 | B | 838 | CLA | CMB-C2B-C1B | -4.12 | 122.13 | 128.46 |
| 38 | j | 315 | II0 | C30-C32-C34 | -4.12 | 110.37 | 123.22 |
| 29 | h | 312 | CLA | CMB-C2B-C1B | -4.12 | 122.14 | 128.46 |
| 32 | e | 315 | WVN | C31-C32-C36 | -4.11 | 112.63 | 118.94 |
| 40 | g | 314 | KC2 | CMD-C2D-C1D | 4.11 | 134.79 | 128.46 |
| 38 | c | 313 | II0 | C27-C25-C23 | -4.11 | 108.69 | 116.84 |
| 38 | g | 319 | II0 | C33-C35-C39 | -4.11 | 112.64 | 118.94 |
| 29 | B | 826 | CLA | CMB-C2B-C3B | 4.11 | 132.37 | 124.68 |
| 29 | B | 825 | CLA | CMB-C2B-C1B | -4.11 | 122.15 | 128.46 |
| 38 | i | 319 | II0 | C33-C35-C39 | -4.10 | 112.64 | 118.94 |
| 38 | k | 615 | II0 | C32-C30-C26 | -4.10 | 114.66 | 126.58 |
| 38 | m | 614 | II0 | C31-C29-C25 | -4.10 | 114.67 | 126.58 |
| 40 | n | 611 | KC2 | CHC-C1C-C2C | -4.10 | 118.57 | 124.98 |
| 32 | s | 407 | WVN | C33-C34-C37 | -4.10 | 112.65 | 118.94 |
| 29 | B | 824 | CLA | CMB-C2B-C1B | -4.10 | 122.16 | 128.46 |
| 29 | g | 302 | CLA | CMB-C2B-C1B | -4.10 | 122.16 | 128.46 |
| 40 | i | 318 | KC2 | C1A-NA-C4A | -4.10 | 104.86 | 106.71 |
| 38 | b | 315 | II0 | C28-C26-C24 | -4.10 | 108.72 | 116.84 |
| 40 | i | 318 | KC2 | CBA-CAA-C2A | -4.10 | 109.66 | 125.27 |
| 40 | m | 611 | KC2 | O2D-CGD-CBD | 4.09 | 118.54 | 111.27 |
| 36 | B | 844 | DGD | O6D-C1D-O3G | -4.09 | 100.28 | 109.97 |
| 32 | e | 315 | WVN | C21-C15-C14 | -4.09 | 105.75 | 113.62 |
| 29 | B | 805 | CLA | CMB-C2B-C1B | -4.09 | 122.17 | 128.46 |
| 38 | l | 315 | II0 | C32-C30-C26 | -4.09 | 114.71 | 126.58 |
| 38 | f | 615 | II0 | C33-C35-C39 | -4.09 | 112.67 | 118.94 |
| 40 | j | 312 | KC2 | CBC-CAC-C3C | -4.08 | 107.30 | 127.62 |
| 32 | F | 205 | WVN | C10-C06-C13 | 4.08 | 116.77 | 110.48 |
| 40 | g | 313 | KC2 | C4B-C3B-C2B | -4.08 | 103.40 | 106.75 |
| 38 | h | 310 | II0 | C27-C25-C23 | -4.08 | 108.76 | 116.84 |
| 38 | k | 616 | II0 | C33-C35-C39 | -4.08 | 112.68 | 118.94 |
| 35 | A | 853 | SQD | C4-C3-C2 | 4.08 | 117.94 | 110.82 |
| 32 | L | 201 | WVN | C14-C15-C13 | -4.08 | 116.81 | 122.73 |
| 38 | n | 618 | II0 | C03-C09-C13 | -4.08 | 116.88 | 122.63 |
| 38 | g | 317 | II0 | C32-C30-C26 | -4.07 | 114.76 | 126.58 |
| 38 | h | 309 | II0 | C29-C31-C33 | -4.07 | 110.51 | 123.22 |
| 38 | e | 314 | II0 | C31-C29-C25 | -4.07 | 114.76 | 126.58 |
| 40 | k | 611 | KC2 | CBC-CAC-C3C | -4.07 | 107.37 | 127.62 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | f | 615 | II0 | C27-C25-C23 | -4.07 | 108.78 | 116.84 |
| 38 | n | 616 | II0 | C28-C26-C24 | -4.06 | 108.79 | 116.84 |
| 38 | f | 614 | II0 | C32-C30-C26 | -4.06 | 114.78 | 126.58 |
| 38 | a | 313 | II0 | C33-C35-C39 | -4.06 | 112.71 | 118.94 |
| 38 | d | 315 | II0 | C28-C26-C24 | -4.06 | 108.80 | 116.84 |
| 38 | j | 301 | II0 | C27-C25-C23 | -4.06 | 108.80 | 116.84 |
| 32 | I | 101 | WVN | C16-C05-C09 | -4.05 | 107.91 | 122.33 |
| 38 | m | 616 | II0 | C20-C14-C12 | -4.05 | 106.85 | 114.36 |
| 38 | i | 313 | II0 | C27-C25-C23 | -4.05 | 108.82 | 116.84 |
| 38 | f | 618 | II0 | C20-C14-C12 | -4.05 | 106.85 | 114.36 |
| 29 | B | 816 | CLA | CMB-C2B-C3B | 4.05 | 132.25 | 124.68 |
| 32 | R | 202 | WVN | C28-C30-C33 | -4.05 | 110.59 | 123.22 |
| 38 | k | 616 | II0 | C38-C36-C34 | -4.05 | 111.70 | 118.08 |
| 38 | d | 316 | II0 | C06-C08-C12 | 4.05 | 115.84 | 110.30 |
| 29 | n | 602 | CLA | CMB-C2B-C1B | -4.05 | 122.25 | 128.46 |
| 29 | A | 819 | CLA | CMB-C2B-C1B | -4.04 | 122.26 | 128.46 |
| 32 | A | 845 | WVN | C01-C02-C11 | -4.03 | 107.60 | 112.70 |
| 32 | s | 405 | WVN | C24-C22-C19 | -4.03 | 111.72 | 118.08 |
| 32 | M | 101 | WVN | C06-C13-C15 | -4.03 | 116.94 | 122.61 |
| 38 | k | 619 | II0 | C27-C25-C23 | -4.03 | 108.86 | 116.84 |
| 35 | A | 853 | SQD | C1-O5-C5 | 4.03 | 121.60 | 113.69 |
| 38 | n | 615 | II0 | C28-C26-C24 | -4.03 | 108.86 | 116.84 |
| 38 | h | 311 | II0 | C33-C35-C39 | -4.03 | 112.76 | 118.94 |
| 29 | m | 612 | CLA | CAA-C2A-C3A | -4.02 | 101.76 | 112.78 |
| 32 | I | 101 | WVN | C02-C05-C09 | -4.02 | 116.52 | 121.47 |
| 29 | c | 304 | CLA | CMB-C2B-C1B | -4.02 | 122.28 | 128.46 |
| 29 | b | 303 | CLA | CMB-C2B-C3B | 4.02 | 132.19 | 124.68 |
| 32 | A | 845 | WVN | C26-C29-C31 | -4.02 | 110.68 | 123.22 |
| 40 | l | 311 | KC2 | C4B-C3B-C2B | -4.01 | 103.46 | 106.75 |
| 29 | B | 842 | CLA | CMB-C2B-C3B | 4.01 | 132.19 | 124.68 |
| 29 | m | 602 | CLA | CMB-C2B-C3B | 4.01 | 132.19 | 124.68 |
| 29 | a | 308 | CLA | CMB-C2B-C3B | 4.01 | 132.18 | 124.68 |
| 38 | c | 313 | II0 | C31-C29-C25 | -4.01 | 114.93 | 126.58 |
| 29 | a | 307 | CLA | CMB-C2B-C1B | -4.01 | 122.30 | 128.46 |
| 40 | j | 312 | KC2 | CBA-CAA-C2A | -4.01 | 110.00 | 125.27 |
| 38 | m | 618 | II0 | C28-C26-C24 | -4.01 | 108.90 | 116.84 |
| 38 | g | 318 | II0 | C06-C04-C10 | 4.01 | 117.74 | 109.62 |
| 32 | s | 405 | WVN | C31-C32-C36 | -4.00 | 112.80 | 118.94 |
| 29 | h | 304 | CLA | CMB-C2B-C1B | -4.00 | 122.31 | 128.46 |
| 29 | B | 813 | CLA | CMB-C2B-C1B | -4.00 | 122.32 | 128.46 |
| 29 | l | 304 | CLA | CMB-C2B-C3B | 4.00 | 132.15 | 124.68 |
| 32 | R | 202 | WVN | C31-C32-C36 | -3.99 | 112.81 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | k | 619 | II0 | C04-C10-C14 | -3.99 | 116.99 | 122.63 |
| 29 | a | 304 | CLA | CMB-C2B-C1B | -3.99 | 122.33 | 128.46 |
| 29 | e | 306 | CLA | CMB-C2B-C3B | 3.99 | 132.14 | 124.68 |
| 38 | l | 315 | II0 | C20-C14-C12 | -3.99 | 106.97 | 114.36 |
| 38 | b | 301 | II0 | C32-C30-C26 | -3.99 | 115.00 | 126.58 |
| 38 | k | 615 | II0 | C29-C31-C33 | -3.99 | 110.78 | 123.22 |
| 38 | i | 316 | II0 | C04-C10-C14 | -3.99 | 117.01 | 122.63 |
| 38 | l | 313 | II0 | C31-C29-C25 | -3.99 | 115.01 | 126.58 |
| 29 | B | 829 | CLA | CAA-C2A-C3A | -3.98 | 101.87 | 112.78 |
| 38 | f | 615 | II0 | C20-C14-C12 | -3.98 | 106.98 | 114.36 |
| 38 | g | 318 | II0 | C33-C35-C39 | -3.98 | 112.83 | 118.94 |
| 38 | a | 317 | II0 | C05-C03-C09 | 3.98 | 117.69 | 109.62 |
| 29 | a | 302 | CLA | CMB-C2B-C1B | -3.98 | 122.35 | 128.46 |
| 29 | c | 307 | CLA | CMB-C2B-C3B | 3.98 | 132.12 | 124.68 |
| 38 | a | 317 | II0 | C06-C04-C10 | 3.97 | 117.67 | 109.62 |
| 38 | d | 317 | II0 | C27-C25-C23 | -3.97 | 108.97 | 116.84 |
| 38 | g | 319 | II0 | C30-C32-C34 | -3.97 | 110.82 | 123.22 |
| 38 | a | 313 | II0 | C28-C26-C24 | -3.97 | 108.98 | 116.84 |
| 38 | l | 313 | II0 | C28-C26-C24 | -3.97 | 108.98 | 116.84 |
| 38 | n | 615 | II0 | C20-C14-C12 | -3.97 | 107.00 | 114.36 |
| 32 | L | 206 | WVN | C38-C34-C33 | -3.97 | 111.82 | 118.08 |
| 38 | l | 313 | II0 | C32-C30-C26 | -3.97 | 115.06 | 126.58 |
| 29 | c | 308 | CLA | CMB-C2B-C1B | -3.96 | 122.38 | 128.46 |
| 38 | a | 317 | II0 | C28-C26-C24 | -3.96 | 109.00 | 116.84 |
| 29 | B | 819 | CLA | CMB-C2B-C3B | 3.96 | 132.09 | 124.68 |
| 38 | j | 316 | II0 | C20-C14-C12 | -3.96 | 107.02 | 114.36 |
| 38 | i | 316 | II0 | C31-C29-C25 | -3.96 | 115.09 | 126.58 |
| 32 | B | 849 | WVN | C16-C05-C09 | -3.96 | 108.26 | 122.33 |
| 29 | k | 604 | CLA | CMB-C2B-C1B | -3.96 | 122.38 | 128.46 |
| 38 | i | 313 | II0 | C32-C30-C26 | -3.96 | 115.10 | 126.58 |
| 40 | i | 310 | KC2 | C3C-C2C-C1C | -3.95 | 103.55 | 106.49 |
| 38 | a | 313 | II0 | C03-C09-C13 | -3.95 | 117.05 | 122.63 |
| 38 | k | 616 | II0 | C28-C26-C24 | -3.95 | 109.01 | 116.84 |
| 38 | l | 315 | II0 | C06-C04-C10 | 3.95 | 117.63 | 109.62 |
| 38 | b | 315 | II0 | C27-C25-C23 | -3.95 | 109.02 | 116.84 |
| 38 | l | 314 | II0 | C20-C14-C12 | -3.95 | 107.04 | 114.36 |
| 38 | i | 316 | II0 | C27-C25-C23 | -3.95 | 109.02 | 116.84 |
| 38 | d | 316 | II0 | C28-C26-C24 | -3.94 | 109.03 | 116.84 |
| 38 | d | 301 | II0 | C19-C13-C11 | -3.94 | 107.05 | 114.36 |
| 40 | c | 310 | KC2 | CAA-C2A-C1A | -3.94 | 106.65 | 124.75 |
| 29 | n | 604 | CLA | CAA-C2A-C3A | -3.94 | 102.00 | 112.78 |
| 32 | L | 205 | WVN | C06-C13-C15 | -3.93 | 117.07 | 122.61 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | n | 609 | CLA | CMB-C2B-C1B | -3.93 | 122.42 | 128.46 |
| 32 | B | 849 | WVN | C20-C13-C15 | -3.93 | 111.94 | 121.46 |
| 38 | l | 315 | II0 | C19-C13-C09 | -3.93 | 119.01 | 124.35 |
| 32 | B | 845 | WVN | C23-C20-C13 | 3.93 | 138.24 | 127.20 |
| 29 | A | 826 | CLA | CMB-C2B-C1B | -3.93 | 122.43 | 128.46 |
| 32 | L | 206 | WVN | C31-C32-C36 | -3.93 | 112.92 | 118.94 |
| 38 | n | 618 | II0 | C31-C29-C25 | -3.93 | 115.18 | 126.58 |
| 38 | m | 615 | II0 | C20-C14-C12 | -3.93 | 107.08 | 114.36 |
| 32 | I | 101 | WVN | C33-C34-C37 | -3.92 | 112.92 | 118.94 |
| 38 | h | 311 | II0 | C20-C14-C12 | -3.92 | 107.09 | 114.36 |
| 29 | j | 310 | CLA | CMB-C2B-C1B | -3.92 | 122.44 | 128.46 |
| 38 | n | 618 | II0 | C28-C26-C24 | -3.92 | 109.08 | 116.84 |
| 40 | f | 611 | KC2 | C1A-NA-C4A | -3.92 | 104.94 | 106.71 |
| 29 | e | 307 | CLA | CMB-C2B-C1B | -3.92 | 122.44 | 128.46 |
| 38 | g | 317 | II0 | C20-C14-C12 | -3.92 | 107.10 | 114.36 |
| 32 | h | 308 | WVN | C02-C05-C09 | -3.91 | 116.66 | 121.47 |
| 32 | B | 847 | WVN | C24-C22-C19 | -3.91 | 111.92 | 118.08 |
| 32 | A | 845 | WVN | C28-C30-C33 | -3.91 | 111.02 | 123.22 |
| 29 | j | 306 | CLA | CMB-C2B-C1B | -3.91 | 122.46 | 128.46 |
| 38 | b | 317 | II0 | C05-C07-C11 | 3.91 | 115.65 | 110.30 |
| 32 | B | 848 | WVN | C10-C06-C13 | 3.90 | 116.49 | 110.48 |
| 29 | R | 203 | CLA | CMB-C2B-C1B | -3.90 | 122.47 | 128.46 |
| 38 | b | 314 | II0 | C19-C13-C11 | -3.90 | 107.12 | 114.36 |
| 38 | n | 615 | II0 | C32-C30-C26 | -3.90 | 115.25 | 126.58 |
| 32 | B | 848 | WVN | C38-C34-C33 | -3.90 | 111.93 | 118.08 |
| 32 | A | 844 | WVN | C20-C13-C15 | -3.90 | 112.01 | 121.46 |
| 40 | e | 309 | KC2 | CBA-CAA-C2A | -3.90 | 110.40 | 125.27 |
| 38 | k | 615 | II0 | C33-C35-C39 | -3.90 | 112.96 | 118.94 |
| 29 | A | 815 | CLA | CMB-C2B-C3B | 3.90 | 131.97 | 124.68 |
| 29 | b | 308 | CLA | CMB-C2B-C3B | 3.90 | 131.97 | 124.68 |
| 29 | j | 305 | CLA | CMB-C2B-C3B | 3.90 | 131.97 | 124.68 |
| 38 | l | 315 | II0 | C11-C13-C09 | -3.90 | 111.73 | 120.57 |
| 38 | a | 317 | II0 | C27-C25-C23 | -3.90 | 109.12 | 116.84 |
| 38 | h | 311 | II0 | C27-C25-C23 | -3.90 | 109.12 | 116.84 |
| 29 | a | 312 | CLA | CMB-C2B-C1B | -3.90 | 122.48 | 128.46 |
| 40 | i | 318 | KC2 | CHC-C1C-C2C | -3.89 | 118.89 | 124.98 |
| 29 | A | 832 | CLA | O2D-CGD-O1D | -3.89 | 116.22 | 123.84 |
| 29 | B | 834 | CLA | CMB-C2B-C1B | -3.89 | 122.48 | 128.46 |
| 38 | d | 315 | II0 | C20-C14-C10 | -3.89 | 119.06 | 124.35 |
| 38 | d | 317 | II0 | C28-C26-C24 | -3.89 | 109.13 | 116.84 |
| 29 | O | 201 | CLA | CMB-C2B-C3B | 3.89 | 131.96 | 124.68 |
| 29 | B | 814 | CLA | CMB-C2B-C1B | -3.89 | 122.49 | 128.46 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 36 | j | 319 | DGD | C1E-O6E-C5E | 3.89 | 121.31 | 113.69 |
| 40 | n | 611 | KC2 | CBC-CAC-C3C | -3.88 | 108.30 | 127.62 |
| 29 | l | 312 | CLA | CMB-C2B-C1B | -3.88 | 122.50 | 128.46 |
| 29 | B | 807 | CLA | CMB-C2B-C1B | -3.88 | 122.50 | 128.46 |
| 32 | M | 101 | WVN | C16-C05-C09 | -3.88 | 108.54 | 122.33 |
| 38 | l | 313 | II0 | C33-C35-C39 | -3.87 | 113.00 | 118.94 |
| 32 | B | 848 | WVN | C26-C29-C31 | -3.87 | 111.14 | 123.22 |
| 29 | s | 402 | CLA | CMB-C2B-C1B | -3.87 | 122.52 | 128.46 |
| 32 | F | 207 | WVN | C20-C13-C15 | -3.87 | 112.09 | 121.46 |
| 38 | g | 317 | II0 | C28-C26-C24 | -3.87 | 109.18 | 116.84 |
| 38 | i | 313 | II0 | C30-C32-C34 | -3.86 | 111.16 | 123.22 |
| 32 | F | 204 | WVN | C23-C20-C13 | -3.86 | 116.35 | 127.20 |
| 32 | J | 101 | WVN | C23-C20-C13 | -3.86 | 116.36 | 127.20 |
| 32 | B | 849 | WVN | C23-C20-C13 | -3.86 | 116.36 | 127.20 |
| 40 | c | 310 | KC2 | CBA-CAA-C2A | -3.86 | 110.55 | 125.27 |
| 29 | s | 403 | CLA | O2D-CGD-O1D | -3.86 | 116.29 | 123.84 |
| 40 | k | 611 | KC2 | C1A-NA-C4A | -3.86 | 104.97 | 106.71 |
| 38 | b | 314 | II0 | C20-C14-C12 | -3.85 | 107.22 | 114.36 |
| 32 | L | 205 | WVN | C24-C22-C19 | -3.85 | 112.01 | 118.08 |
| 38 | k | 619 | II0 | C20-C14-C12 | -3.85 | 107.22 | 114.36 |
| 32 | A | 844 | WVN | C31-C32-C36 | -3.85 | 113.04 | 118.94 |
| 29 | i | 304 | CLA | CMB-C2B-C1B | -3.85 | 122.55 | 128.46 |
| 40 | l | 311 | KC2 | CBC-CAC-C3C | -3.84 | 108.50 | 127.62 |
| 32 | A | 854 | WVN | C23-C20-C13 | -3.84 | 116.41 | 127.20 |
| 32 | M | 101 | WVN | C31-C32-C36 | -3.84 | 113.05 | 118.94 |
| 32 | B | 846 | WVN | C26-C29-C31 | -3.84 | 111.24 | 123.22 |
| 29 | l | 309 | CLA | CMB-C2B-C1B | -3.84 | 122.57 | 128.46 |
| 38 | e | 312 | II0 | C29-C31-C33 | -3.83 | 111.25 | 123.22 |
| 38 | l | 313 | II0 | C30-C32-C34 | -3.83 | 111.25 | 123.22 |
| 38 | f | 614 | II0 | C30-C32-C34 | -3.83 | 111.25 | 123.22 |
| 29 | k | 607 | CLA | CAA-C2A-C3A | -3.83 | 102.29 | 112.78 |
| 32 | A | 844 | WVN | C16-C05-C09 | -3.83 | 108.71 | 122.33 |
| 38 | h | 310 | II0 | C31-C29-C25 | -3.83 | 115.47 | 126.58 |
| 38 | e | 314 | II0 | C27-C25-C23 | -3.83 | 109.26 | 116.84 |
| 29 | B | 836 | CLA | CMB-C2B-C1B | -3.82 | 122.59 | 128.46 |
| 40 | m | 611 | KC2 | CBA-CAA-C2A | -3.82 | 110.70 | 125.27 |
| 29 | A | 840 | CLA | CMB-C2B-C3B | 3.82 | 131.83 | 124.68 |
| 29 | g | 311 | CLA | CMB-C2B-C3B | 3.82 | 131.83 | 124.68 |
| 38 | n | 616 | II0 | C04-C10-C14 | -3.82 | 117.25 | 122.63 |
| 29 | f | 612 | CLA | CMB-C2B-C1B | -3.81 | 122.60 | 128.46 |
| 29 | b | 303 | CLA | O2D-CGD-O1D | -3.81 | 116.38 | 123.84 |
| 38 | a | 314 | II0 | C20-C14-C12 | -3.81 | 107.29 | 114.36 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 824 | CLA | CMB-C2B-C3B | 3.81 | 131.81 | 124.68 |
| 38 | n | 618 | II0 | C27-C25-C23 | -3.81 | 109.29 | 116.84 |
| 38 | m | 616 | II0 | C30-C32-C34 | -3.81 | 111.32 | 123.22 |
| 29 | s | 402 | CLA | CAA-C2A-C3A | -3.81 | 102.34 | 112.78 |
| 38 | h | 311 | II0 | C03-C09-C13 | -3.81 | 117.25 | 122.63 |
| 38 | j | 315 | II0 | C31-C29-C25 | -3.81 | 115.51 | 126.58 |
| 29 | m | 609 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 29 | B | 806 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 29 | s | 406 | CLA | CMB-C2B-C3B | 3.81 | 131.80 | 124.68 |
| 38 | b | 314 | II0 | C38-C36-C34 | -3.81 | 112.08 | 118.08 |
| 40 | g | 313 | KC2 | CBA-CAA-C2A | -3.81 | 110.76 | 125.27 |
| 38 | f | 614 | II0 | C28-C26-C24 | -3.81 | 109.30 | 116.84 |
| 29 | f | 609 | CLA | CMB-C2B-C1B | -3.80 | 122.62 | 128.46 |
| 29 | B | 804 | CLA | CMB-C2B-C3B | 3.80 | 131.80 | 124.68 |
| 38 | J | 103 | II0 | C19-C13-C11 | -3.80 | 107.31 | 114.36 |
| 29 | c | 309 | CLA | CMB-C2B-C1B | -3.80 | 122.62 | 128.46 |
| 40 | g | 313 | KC2 | C1A-NA-C4A | -3.80 | 105.00 | 106.71 |
| 32 | L | 206 | WVN | C16-C05-C09 | -3.80 | 108.81 | 122.33 |
| 38 | i | 316 | II0 | C11-C13-C09 | -3.80 | 111.94 | 120.57 |
| 40 | k | 611 | KC2 | C2C-C1C-NC | 3.80 | 114.72 | 110.57 |
| 29 | F | 202 | CLA | CMB-C2B-C1B | -3.80 | 122.63 | 128.46 |
| 38 | m | 615 | II0 | C06-C04-C10 | 3.80 | 117.32 | 109.62 |
| 38 | h | 311 | II0 | C29-C31-C33 | -3.79 | 111.38 | 123.22 |
| 38 | k | 619 | II0 | C31-C29-C25 | -3.79 | 115.57 | 126.58 |
| 38 | c | 313 | II0 | C30-C32-C34 | -3.79 | 111.38 | 123.22 |
| 38 | n | 616 | II0 | C29-C31-C33 | -3.79 | 111.38 | 123.22 |
| 40 | g | 314 | KC2 | C4B-C3B-C2B | -3.79 | 103.64 | 106.75 |
| 36 | j | 319 | DGD | O6D-C1D-O3G | -3.79 | 101.00 | 109.97 |
| 29 | i | 305 | CLA | CMB-C2B-C1B | -3.79 | 122.64 | 128.46 |
| 38 | a | 317 | II0 | C32-C30-C26 | -3.79 | 115.59 | 126.58 |
| 29 | s | 403 | CLA | CMB-C2B-C1B | -3.78 | 122.65 | 128.46 |
| 40 | f | 611 | KC2 | C4B-C3B-C2B | -3.78 | 103.64 | 106.75 |
| 38 | i | 313 | II0 | C04-C10-C14 | -3.78 | 117.29 | 122.63 |
| 29 | A | 838 | CLA | CMB-C2B-C1B | -3.78 | 122.65 | 128.46 |
| 29 | i | 308 | CLA | CMB-C2B-C3B | 3.78 | 131.75 | 124.68 |
| 35 | A | 853 | SQD | O9-S-O7 | -3.78 | 100.87 | 113.95 |
| 29 | a | 310 | CLA | CMB-C2B-C1B | -3.78 | 122.66 | 128.46 |
| 29 | A | 828 | CLA | CMB-C2B-C1B | -3.78 | 122.66 | 128.46 |
| 32 | s | 405 | WVN | C16-C05-C09 | -3.78 | 108.90 | 122.33 |
| 32 | B | 847 | WVN | C31-C32-C36 | -3.77 | 113.15 | 118.94 |
| 32 | L | 201 | WVN | C28-C30-C33 | -3.77 | 111.44 | 123.22 |
| 29 | K | 101 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | L | 206 | WVN | C06-C13-C15 | -3.77 | 117.30 | 122.61 |
| 29 | A | 813 | CLA | CMB-C2B-C3B | 3.77 | 131.73 | 124.68 |
| 29 | j | 308 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 38 | h | 311 | II0 | C05-C03-C09 | 3.77 | 117.26 | 109.62 |
| 29 | j | 309 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 38 | a | 313 | II0 | C05-C03-C09 | 3.77 | 117.26 | 109.62 |
| 29 | A | 810 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 38 | a | 315 | II0 | C27-C25-C23 | -3.77 | 109.38 | 116.84 |
| 29 | h | 305 | CLA | CMB-C2B-C1B | -3.77 | 122.68 | 128.46 |
| 32 | F | 207 | WVN | C28-C30-C33 | -3.76 | 111.47 | 123.22 |
| 32 | L | 201 | WVN | C20-C13-C15 | -3.76 | 112.34 | 121.46 |
| 32 | L | 206 | WVN | C14-C15-C13 | -3.76 | 117.27 | 122.73 |
| 38 | l | 314 | II0 | C19-C13-C11 | -3.76 | 107.39 | 114.36 |
| 38 | g | 317 | II0 | C03-C09-C13 | -3.76 | 117.32 | 122.63 |
| 29 | A | 814 | CLA | CMB-C2B-C3B | 3.76 | 131.71 | 124.68 |
| 29 | L | 203 | CLA | CMB-C2B-C1B | -3.76 | 122.69 | 128.46 |
| 29 | a | 306 | CLA | CAC-C3C-C4C | 3.76 | 129.69 | 124.81 |
| 38 | f | 614 | II0 | C19-C13-C11 | -3.76 | 107.40 | 114.36 |
| 38 | e | 312 | II0 | C30-C32-C34 | -3.76 | 111.50 | 123.22 |
| 32 | l | 316 | WVN | C06-C13-C15 | -3.76 | 117.32 | 122.61 |
| 38 | e | 312 | II0 | C32-C30-C26 | -3.75 | 115.68 | 126.58 |
| 29 | c | 306 | CLA | CMB-C2B-C1B | -3.75 | 122.69 | 128.46 |
| 38 | d | 316 | II0 | C20-C14-C12 | -3.75 | 107.40 | 114.36 |
| 38 | m | 618 | II0 | C30-C32-C34 | -3.75 | 111.50 | 123.22 |
| 29 | A | 817 | CLA | CMB-C2B-C3B | 3.75 | 131.69 | 124.68 |
| 38 | j | 315 | II0 | C19-C13-C11 | -3.75 | 107.41 | 114.36 |
| 38 | i | 316 | II0 | C28-C26-C24 | -3.75 | 109.42 | 116.84 |
| 38 | g | 319 | II0 | C28-C26-C24 | -3.74 | 109.42 | 116.84 |
| 29 | n | 607 | CLA | CMB-C2B-C1B | -3.74 | 122.71 | 128.46 |
| 29 | g | 306 | CLA | CBC-CAC-C3C | 3.74 | 122.74 | 112.43 |
| 36 | B | 844 | DGD | O5D-C6D-C5D | -3.74 | 102.13 | 109.05 |
| 38 | e | 312 | II0 | C27-C25-C23 | -3.74 | 109.43 | 116.84 |
| 29 | b | 309 | CLA | CMB-C2B-C1B | -3.74 | 122.72 | 128.46 |
| 29 | l | 308 | CLA | CMB-C2B-C3B | 3.74 | 131.67 | 124.68 |
| 40 | g | 314 | KC2 | C1A-NA-C4A | -3.74 | 105.03 | 106.71 |
| 38 | e | 313 | II0 | C28-C26-C24 | -3.74 | 109.44 | 116.84 |
| 38 | e | 314 | II0 | C05-C03-C09 | 3.74 | 117.19 | 109.62 |
| 38 | b | 301 | II0 | C27-C25-C23 | -3.73 | 109.44 | 116.84 |
| 38 | h | 310 | II0 | C32-C30-C26 | -3.73 | 115.74 | 126.58 |
| 32 | i | 315 | WVN | C17-C06-C13 | -3.73 | 104.25 | 110.30 |
| 29 | A | 805 | CLA | CMB-C2B-C3B | 3.73 | 131.65 | 124.68 |
| 29 | A | 820 | CLA | CMB-C2B-C3B | 3.73 | 131.65 | 124.68 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | h | 310 | II0 | C28-C26-C24 | -3.73 | 109.46 | 116.84 |
| 29 | k | 614 | CLA | CMB-C2B-C1B | -3.73 | 122.74 | 128.46 |
| 38 | b | 315 | II0 | C30-C32-C34 | -3.72 | 111.60 | 123.22 |
| 38 | j | 315 | II0 | C27-C25-C23 | -3.72 | 109.47 | 116.84 |
| 32 | A | 854 | WVN | C28-C30-C33 | -3.72 | 111.61 | 123.22 |
| 29 | A | 803 | CLA | CMB-C2B-C3B | 3.72 | 131.64 | 124.68 |
| 38 | j | 301 | II0 | C28-C26-C24 | -3.72 | 109.47 | 116.84 |
| 29 | B | 812 | CLA | CMB-C2B-C3B | 3.72 | 131.63 | 124.68 |
| 29 | L | 202 | CLA | CMB-C2B-C1B | -3.72 | 122.75 | 128.46 |
| 29 | A | 825 | CLA | CMB-C2B-C3B | 3.72 | 131.63 | 124.68 |
| 32 | K | 103 | WVN | C28-C30-C33 | -3.72 | 111.62 | 123.22 |
| 38 | m | 614 | II0 | C28-C26-C24 | -3.71 | 109.48 | 116.84 |
| 29 | K | 102 | CLA | O2D-CGD-O1D | -3.71 | 116.58 | 123.84 |
| 29 | A | 804 | CLA | CMB-C2B-C3B | 3.71 | 131.62 | 124.68 |
| 32 | F | 207 | WVN | C31-C32-C36 | -3.71 | 113.25 | 118.94 |
| 38 | i | 314 | II0 | C34-C36-C40 | -3.71 | 113.25 | 118.94 |
| 38 | d | 317 | II0 | C34-C36-C40 | -3.71 | 113.25 | 118.94 |
| 29 | A | 807 | CLA | CMB-C2B-C3B | 3.71 | 131.62 | 124.68 |
| 38 | k | 615 | II0 | C27-C25-C23 | -3.71 | 109.49 | 116.84 |
| 38 | j | 301 | II0 | C32-C30-C26 | -3.71 | 115.81 | 126.58 |
| 29 | j | 314 | CLA | CMB-C2B-C3B | 3.71 | 131.61 | 124.68 |
| 38 | a | 313 | II0 | C32-C30-C26 | -3.70 | 115.83 | 126.58 |
| 38 | j | 315 | II0 | C28-C26-C24 | -3.70 | 109.51 | 116.84 |
| 38 | i | 316 | II0 | C30-C32-C34 | -3.70 | 111.68 | 123.22 |
| 29 | A | 818 | CLA | CMB-C2B-C3B | 3.70 | 131.60 | 124.68 |
| 29 | e | 310 | CLA | CMB-C2B-C3B | 3.70 | 131.59 | 124.68 |
| 29 | a | 305 | CLA | CMB-C2B-C3B | 3.69 | 131.59 | 124.68 |
| 29 | B | 831 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 29 | b | 305 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 32 | B | 848 | WVN | C16-C05-C09 | -3.69 | 109.20 | 122.33 |
| 38 | j | 301 | II0 | C20-C14-C12 | -3.69 | 107.52 | 114.36 |
| 38 | j | 316 | II0 | C33-C35-C39 | -3.69 | 113.28 | 118.94 |
| 38 | f | 614 | II0 | C20-C14-C12 | -3.69 | 107.52 | 114.36 |
| 32 | B | 846 | WVN | C20-C13-C15 | -3.69 | 112.53 | 121.46 |
| 32 | K | 103 | WVN | C01-C02-C11 | -3.69 | 108.04 | 112.70 |
| 38 | b | 314 | II0 | C28-C26-C24 | -3.68 | 109.54 | 116.84 |
| 29 | n | 605 | CLA | CMB-C2B-C1B | -3.68 | 122.80 | 128.46 |
| 38 | b | 315 | II0 | C41-C42-C40 | -3.68 | 115.93 | 123.47 |
| 38 | f | 615 | II0 | C11-C13-C09 | -3.68 | 112.22 | 120.57 |
| 32 | B | 847 | WVN | C23-C20-C13 | -3.68 | 116.87 | 127.20 |
| 32 | s | 407 | WVN | C16-C05-C09 | -3.68 | 109.25 | 122.33 |
| 38 | j | 301 | II0 | C19-C13-C11 | -3.68 | 107.54 | 114.36 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | i | 319 | II0 | C27-C25-C23 | -3.68 | 109.56 | 116.84 |
| 40 | s | 404 | KC2 | CBC-CAC-C3C | -3.68 | 109.33 | 127.62 |
| 38 | a | 314 | II0 | C05-C03-C09 | 3.67 | 117.07 | 109.62 |
| 32 | i | 315 | WVN | C02-C05-C09 | -3.67 | 116.95 | 121.47 |
| 29 | g | 306 | CLA | CMC-C2C-C1C | -3.67 | 119.45 | 125.04 |
| 32 | A | 846 | WVN | C01-C02-C05 | 3.67 | 117.99 | 111.42 |
| 38 | l | 315 | II0 | C28-C26-C24 | -3.67 | 109.58 | 116.84 |
| 29 | n | 602 | CLA | CMB-C2B-C3B | 3.66 | 131.53 | 124.68 |
| 29 | g | 310 | CLA | CMB-C2B-C1B | -3.66 | 122.83 | 128.46 |
| 29 | Q | 302 | CLA | CMB-C2B-C1B | -3.66 | 122.83 | 128.46 |
| 38 | l | 315 | II0 | C30-C32-C34 | -3.66 | 111.79 | 123.22 |
| 38 | j | 315 | II0 | C20-C14-C12 | -3.66 | 107.57 | 114.36 |
| 38 | d | 315 | II0 | C30-C32-C34 | -3.66 | 111.79 | 123.22 |
| 29 | B | 823 | CLA | CMB-C2B-C1B | -3.66 | 122.84 | 128.46 |
| 29 | i | 307 | CLA | CMB-C2B-C1B | -3.66 | 122.84 | 128.46 |
| 29 | d | 302 | CLA | CMB-C2B-C3B | 3.66 | 131.52 | 124.68 |
| 40 | d | 311 | KC2 | CHC-C1C-C2C | -3.65 | 119.27 | 124.98 |
| 39 | b | 316 | IHT | C05-C08-C12 | 3.65 | 115.30 | 110.30 |
| 38 | i | 319 | II0 | C38-C36-C34 | -3.65 | 112.33 | 118.08 |
| 29 | e | 302 | CLA | CMB-C2B-C3B | 3.65 | 131.51 | 124.68 |
| 29 | l | 306 | CLA | CMB-C2B-C1B | -3.64 | 122.86 | 128.46 |
| 40 | m | 611 | KC2 | C4B-C3B-C2B | -3.64 | 103.76 | 106.75 |
| 38 | m | 615 | II0 | C41-C42-C40 | -3.64 | 116.02 | 123.47 |
| 29 | k | 606 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 29 | b | 303 | CLA | O2D-CGD-CBD | 3.64 | 117.73 | 111.27 |
| 29 | h | 302 | CLA | CMB-C2B-C3B | 3.64 | 131.48 | 124.68 |
| 29 | i | 311 | CLA | CMB-C2B-C1B | -3.63 | 122.88 | 128.46 |
| 29 | m | 612 | CLA | CMB-C2B-C1B | -3.63 | 122.88 | 128.46 |
| 40 | k | 611 | KC2 | C4B-C3B-C2B | -3.63 | 103.77 | 106.75 |
| 32 | R | 201 | WVN | C26-C29-C31 | -3.63 | 111.89 | 123.22 |
| 38 | k | 620 | II0 | C27-C25-C23 | -3.63 | 109.65 | 116.84 |
| 38 | a | 317 | II0 | C15-C03-C09 | -3.63 | 104.70 | 110.47 |
| 29 | B | 818 | CLA | CMB-C2B-C1B | -3.63 | 122.89 | 128.46 |
| 38 | g | 318 | II0 | C38-C36-C34 | -3.63 | 112.36 | 118.08 |
| 29 | j | 308 | CLA | CMB-C2B-C3B | 3.63 | 131.46 | 124.68 |
| 38 | i | 313 | II0 | C19-C13-C11 | -3.63 | 107.64 | 114.36 |
| 29 | i | 303 | CLA | O2D-CGD-O1D | -3.62 | 116.75 | 123.84 |
| 38 | b | 301 | II0 | C19-C13-C11 | -3.62 | 107.65 | 114.36 |
| 40 | c | 310 | KC2 | CHC-C1C-C2C | -3.62 | 119.33 | 124.98 |
| 29 | c | 311 | CLA | CMB-C2B-C1B | -3.61 | 122.91 | 128.46 |
| 38 | i | 314 | II0 | C38-C36-C34 | -3.61 | 112.38 | 118.08 |
| 32 | l | 302 | WVN | C16-C05-C09 | -3.61 | 109.48 | 122.33 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | k | 620 | II0 | C28-C26-C24 | -3.61 | 109.69 | 116.84 |
| 31 | A | 843 | LHG | O8-C23-C24 | 3.61 | 120.85 | 111.38 |
| 29 | B | 825 | CLA | CMB-C2B-C3B | 3.61 | 131.43 | 124.68 |
| 29 | A | 836 | CLA | CMB-C2B-C1B | -3.61 | 122.91 | 128.46 |
| 29 | A | 816 | CLA | CMB-C2B-C3B | 3.61 | 131.43 | 124.68 |
| 29 | k | 601 | CLA | CMB-C2B-C1B | -3.61 | 122.92 | 128.46 |
| 38 | m | 616 | II0 | C32-C30-C26 | -3.61 | 116.11 | 126.58 |
| 38 | f | 616 | II0 | C32-C30-C26 | -3.61 | 116.11 | 126.58 |
| 29 | A | 812 | CLA | CMB-C2B-C3B | 3.61 | 131.42 | 124.68 |
| 38 | d | 316 | II0 | C33-C35-C39 | -3.61 | 113.41 | 118.94 |
| 38 | f | 616 | II0 | C20-C14-C12 | -3.60 | 107.68 | 114.36 |
| 38 | l | 313 | II0 | C20-C14-C12 | -3.60 | 107.68 | 114.36 |
| 38 | h | 309 | II0 | C27-C25-C23 | -3.60 | 109.71 | 116.84 |
| 29 | c | 312 | CLA | CMB-C2B-C1B | -3.60 | 122.93 | 128.46 |
| 38 | k | 620 | II0 | C32-C30-C26 | -3.60 | 116.13 | 126.58 |
| 32 | A | 846 | WVN | C33-C34-C37 | -3.60 | 113.42 | 118.94 |
| 40 | g | 314 | KC2 | C3C-C2C-C1C | -3.60 | 103.82 | 106.49 |
| 40 | g | 315 | KC2 | CAA-CBA-CGA | -3.60 | 108.78 | 127.26 |
| 29 | F | 201 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 32 | L | 205 | WVN | C14-C15-C13 | -3.59 | 117.52 | 122.73 |
| 32 | L | 206 | WVN | C26-C29-C31 | -3.59 | 112.02 | 123.22 |
| 29 | l | 304 | CLA | O2D-CGD-O1D | -3.59 | 116.82 | 123.84 |
| 40 | i | 310 | KC2 | C4B-C3B-C2B | -3.59 | 103.81 | 106.75 |
| 38 | n | 615 | II0 | C33-C35-C39 | -3.59 | 113.44 | 118.94 |
| 32 | J | 101 | WVN | C21-C15-C14 | -3.59 | 106.73 | 113.62 |
| 29 | f | 605 | CLA | CMB-C2B-C1B | -3.58 | 122.95 | 128.46 |
| 29 | B | 805 | CLA | CMB-C2B-C3B | 3.58 | 131.38 | 124.68 |
| 38 | a | 315 | II0 | C28-C26-C24 | -3.58 | 109.74 | 116.84 |
| 38 | k | 615 | II0 | C06-C08-C12 | 3.58 | 115.21 | 110.30 |
| 40 | j | 312 | KC2 | C4B-C3B-C2B | -3.58 | 103.81 | 106.75 |
| 29 | i | 312 | CLA | CMB-C2B-C1B | -3.58 | 122.97 | 128.46 |
| 29 | B | 832 | CLA | CMB-C2B-C1B | -3.58 | 122.97 | 128.46 |
| 38 | n | 618 | II0 | C19-C13-C11 | -3.58 | 107.73 | 114.36 |
| 32 | A | 846 | WVN | C28-C30-C33 | -3.57 | 112.06 | 123.22 |
| 38 | d | 301 | II0 | C28-C26-C24 | -3.57 | 109.76 | 116.84 |
| 32 | l | 302 | WVN | C26-C29-C31 | -3.57 | 112.08 | 123.22 |
| 40 | i | 318 | KC2 | C4B-C3B-C2B | -3.57 | 103.82 | 106.75 |
| 38 | m | 614 | II0 | C03-C09-C13 | -3.57 | 117.60 | 122.63 |
| 29 | B | 817 | CLA | CMB-C2B-C3B | 3.57 | 131.35 | 124.68 |
| 29 | d | 304 | CLA | CMB-C2B-C1B | -3.57 | 122.98 | 128.46 |
| 40 | i | 310 | KC2 | C2C-C1C-NC | 3.56 | 114.46 | 110.57 |
| 38 | g | 319 | II0 | C32-C30-C26 | -3.56 | 116.24 | 126.58 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | e | 308 | CLA | CMB-C2B-C1B | -3.56 | 122.99 | 128.46 |
| 29 | m | 606 | CLA | CMB-C2B-C1B | -3.56 | 122.99 | 128.46 |
| 32 | l | 316 | WVN | C28-C30-C33 | -3.56 | 112.11 | 123.22 |
| 38 | f | 618 | II0 | C27-C25-C23 | -3.56 | 109.80 | 116.84 |
| 29 | m | 605 | CLA | CMB-C2B-C1B | -3.55 | 123.00 | 128.46 |
| 38 | k | 619 | II0 | C32-C30-C26 | -3.55 | 116.26 | 126.58 |
| 38 | n | 616 | II0 | C32-C30-C26 | -3.55 | 116.27 | 126.58 |
| 38 | g | 318 | II0 | C30-C32-C34 | -3.55 | 112.14 | 123.22 |
| 38 | m | 614 | II0 | C33-C35-C39 | -3.55 | 113.49 | 118.94 |
| 29 | F | 203 | CLA | CMB-C2B-C1B | -3.55 | 123.01 | 128.46 |
| 38 | n | 618 | II0 | C30-C32-C34 | -3.55 | 112.14 | 123.22 |
| 38 | i | 314 | II0 | C33-C35-C39 | -3.55 | 113.50 | 118.94 |
| 32 | R | 201 | WVN | C21-C15-C14 | -3.55 | 106.80 | 113.62 |
| 38 | e | 313 | II0 | C27-C25-C23 | -3.55 | 109.81 | 116.84 |
| 32 | F | 205 | WVN | C16-C05-C09 | -3.54 | 109.72 | 122.33 |
| 29 | A | 806 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 29 | L | 204 | CLA | CMB-C2B-C3B | 3.54 | 131.31 | 124.68 |
| 29 | d | 309 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 29 | k | 609 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 29 | B | 811 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 38 | b | 314 | II0 | C32-C30-C26 | -3.54 | 116.30 | 126.58 |
| 38 | d | 316 | II0 | C30-C32-C34 | -3.54 | 112.18 | 123.22 |
| 32 | h | 308 | WVN | C23-C20-C13 | -3.54 | 117.27 | 127.20 |
| 38 | c | 313 | II0 | C33-C35-C39 | -3.53 | 113.52 | 118.94 |
| 32 | L | 201 | WVN | C33-C34-C37 | -3.53 | 113.52 | 118.94 |
| 38 | l | 313 | II0 | C19-C13-C11 | -3.53 | 107.81 | 114.36 |
| 38 | m | 618 | II0 | C32-C30-C26 | -3.53 | 116.33 | 126.58 |
| 40 | f | 611 | KC2 | CAA-CBA-CGA | -3.53 | 109.12 | 127.26 |
| 38 | g | 319 | II0 | C27-C25-C23 | -3.53 | 109.85 | 116.84 |
| 32 | B | 847 | WVN | C16-C05-C09 | -3.53 | 109.78 | 122.33 |
| 29 | b | 307 | CLA | CMB-C2B-C1B | -3.53 | 123.05 | 128.46 |
| 29 | j | 307 | CLA | CMB-C2B-C1B | -3.52 | 123.05 | 128.46 |
| 29 | k | 607 | CLA | CMB-C2B-C1B | -3.52 | 123.05 | 128.46 |
| 38 | m | 616 | II0 | C28-C26-C24 | -3.52 | 109.86 | 116.84 |
| 29 | B | 819 | CLA | CAC-C3C-C2C | 3.52 | 133.54 | 127.53 |
| 32 | L | 205 | WVN | C28-C30-C33 | -3.52 | 112.24 | 123.22 |
| 29 | n | 610 | CLA | CMB-C2B-C1B | -3.52 | 123.06 | 128.46 |
| 32 | s | 407 | WVN | C06-C13-C15 | -3.51 | 117.66 | 122.61 |
| 29 | f | 610 | CLA | CMB-C2B-C1B | -3.51 | 123.06 | 128.46 |
| 40 | n | 611 | KC2 | C4B-C3B-C2B | -3.51 | 103.87 | 106.75 |
| 29 | l | 301 | CLA | CMB-C2B-C1B | -3.51 | 123.07 | 128.46 |
| 40 | s | 401 | KC2 | CBA-CAA-C2A | -3.51 | 111.89 | 125.27 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | i | 319 | II0 | C05-C07-C11 | 3.51 | 115.11 | 110.30 |
| 29 | b | 313 | CLA | CMB-C2B-C1B | -3.51 | 123.07 | 128.46 |
| 29 | d | 313 | CLA | CMB-C2B-C1B | -3.51 | 123.08 | 128.46 |
| 38 | a | 314 | II0 | C38-C36-C34 | -3.51 | 112.55 | 118.08 |
| 32 | B | 848 | WVN | C17-C06-C13 | -3.50 | 104.62 | 110.30 |
| 40 | d | 311 | KC2 | CAA-CBA-CGA | -3.50 | 109.26 | 127.26 |
| 29 | A | 851 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 40 | e | 309 | KC2 | C4B-C3B-C2B | -3.50 | 103.88 | 106.75 |
| 29 | s | 406 | CLA | CAA-C2A-C3A | -3.50 | 103.19 | 112.78 |
| 38 | n | 616 | II0 | C27-C25-C23 | -3.50 | 109.91 | 116.84 |
| 29 | g | 306 | CLA | CMB-C2B-C3B | 3.50 | 131.22 | 124.68 |
| 32 | A | 846 | WVN | C23-C25-C28 | -3.49 | 113.58 | 118.94 |
| 38 | a | 314 | II0 | C19-C13-C11 | -3.49 | 107.88 | 114.36 |
| 29 | A | 830 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 38 | f | 618 | II0 | C33-C35-C39 | -3.49 | 113.58 | 118.94 |
| 38 | k | 616 | II0 | C20-C14-C12 | -3.49 | 107.89 | 114.36 |
| 29 | d | 313 | CLA | CAA-C2A-C3A | -3.49 | 103.22 | 112.78 |
| 29 | h | 301 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 30 | A | 841 | PQN | C14-C13-C15 | -3.49 | 109.40 | 115.27 |
| 29 | h | 304 | CLA | CMB-C2B-C3B | 3.49 | 131.20 | 124.68 |
| 29 | c | 301 | CLA | CMB-C2B-C1B | -3.49 | 123.11 | 128.46 |
| 38 | d | 316 | II0 | C19-C13-C11 | -3.49 | 107.90 | 114.36 |
| 38 | h | 311 | II0 | C38-C36-C34 | -3.49 | 112.59 | 118.08 |
| 29 | b | 302 | CLA | CMB-C2B-C1B | -3.48 | 123.11 | 128.46 |
| 32 | B | 846 | WVN | C16-C05-C09 | -3.48 | 109.94 | 122.33 |
| 35 | A | 853 | SQD | O5-C5-C4 | 3.48 | 116.01 | 109.69 |
| 38 | a | 314 | II0 | C03-C09-C13 | -3.48 | 117.72 | 122.63 |
| 29 | d | 305 | CLA | CMB-C2B-C3B | 3.48 | 131.18 | 124.68 |
| 29 | m | 601 | CLA | CMB-C2B-C1B | -3.48 | 123.12 | 128.46 |
| 35 | A | 853 | SQD | O9-S-C6 | 3.47 | 111.07 | 106.94 |
| 29 | i | 302 | CLA | CMB-C2B-C1B | -3.47 | 123.12 | 128.46 |
| 29 | A | 821 | CLA | CMB-C2B-C3B | 3.47 | 131.18 | 124.68 |
| 29 | g | 302 | CLA | CMB-C2B-C3B | 3.47 | 131.17 | 124.68 |
| 29 | g | 307 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 29 | n | 604 | CLA | CMB-C2B-C3B | 3.47 | 131.17 | 124.68 |
| 29 | l | 307 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 29 | B | 840 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 40 | l | 311 | KC2 | CAA-CBA-CGA | -3.47 | 109.44 | 127.26 |
| 29 | e | 311 | CLA | CMB-C2B-C1B | -3.47 | 123.14 | 128.46 |
| 29 | O | 202 | CLA | CMB-C2B-C1B | -3.47 | 123.14 | 128.46 |
| 29 | A | 809 | CLA | CMB-C2B-C1B | -3.46 | 123.15 | 128.46 |
| 32 | B | 846 | WVN | C31-C32-C36 | -3.46 | 113.64 | 118.94 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | k | 616 | II0 | C06-C04-C10 | 3.46 | 116.62 | 109.62 |
| 32 | F | 207 | WVN | C14-C15-C13 | -3.46 | 117.71 | 122.73 |
| 31 | L | 208 | LHG | O8-C23-C24 | 3.45 | 122.75 | 111.91 |
| 29 | k | 608 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 29 | g | 306 | CLA | CAC-C3C-C2C | 3.45 | 133.43 | 127.53 |
| 29 | k | 605 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 40 | i | 310 | KC2 | O2D-CGD-O1D | -3.45 | 117.09 | 123.84 |
| 32 | L | 205 | WVN | C19-C22-C26 | -3.45 | 113.65 | 118.94 |
| 29 | J | 102 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 38 | j | 316 | II0 | C38-C36-C34 | -3.45 | 112.64 | 118.08 |
| 38 | f | 618 | II0 | C19-C13-C11 | -3.45 | 107.97 | 114.36 |
| 29 | L | 207 | CLA | CMB-C2B-C1B | -3.45 | 123.17 | 128.46 |
| 32 | R | 201 | WVN | C39-C40-C37 | -3.44 | 116.42 | 123.47 |
| 29 | m | 613 | CLA | CMB-C2B-C1B | -3.44 | 123.17 | 128.46 |
| 38 | m | 615 | II0 | C38-C36-C34 | -3.44 | 112.65 | 118.08 |
| 38 | e | 314 | II0 | C33-C35-C39 | -3.44 | 113.66 | 118.94 |
| 29 | B | 838 | CLA | CMB-C2B-C3B | 3.44 | 131.11 | 124.68 |
| 29 | f | 604 | CLA | CMB-C2B-C3B | 3.44 | 131.11 | 124.68 |
| 29 | j | 313 | CLA | CMB-C2B-C1B | -3.44 | 123.18 | 128.46 |
| 40 | d | 311 | KC2 | C4B-C3B-C2B | -3.44 | 103.93 | 106.75 |
| 38 | d | 316 | II0 | C05-C03-C09 | 3.44 | 116.59 | 109.62 |
| 32 | s | 407 | WVN | C01-C02-C11 | -3.44 | 108.36 | 112.70 |
| 29 | A | 816 | CLA | CBA-CAA-C2A | 3.44 | 124.00 | 113.86 |
| 29 | f | 601 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 29 | k | 610 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 29 | R | 203 | CLA | CMB-C2B-C3B | 3.43 | 131.10 | 124.68 |
| 38 | d | 317 | II0 | C30-C32-C34 | -3.43 | 112.50 | 123.22 |
| 38 | i | 319 | II0 | C30-C32-C34 | -3.43 | 112.51 | 123.22 |
| 29 | i | 309 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 37 | c | 317 | LMG | O1-C7-C8 | -3.43 | 102.62 | 110.90 |
| 29 | a | 311 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 32 | R | 201 | WVN | C16-C05-C09 | -3.43 | 110.13 | 122.33 |
| 29 | g | 304 | CLA | O2D-CGD-O1D | -3.43 | 117.13 | 123.84 |
| 38 | j | 315 | II0 | C29-C31-C33 | -3.43 | 112.52 | 123.22 |
| 29 | B | 840 | CLA | O2D-CGD-O1D | -3.43 | 117.14 | 123.84 |
| 29 | j | 310 | CLA | CMB-C2B-C3B | 3.43 | 131.09 | 124.68 |
| 38 | k | 615 | II0 | C30-C32-C34 | -3.42 | 112.53 | 123.22 |
| 40 | e | 309 | KC2 | CAA-C2A-C1A | -3.42 | 109.01 | 124.75 |
| 29 | B | 810 | CLA | CMB-C2B-C1B | -3.42 | 123.21 | 128.46 |
| 32 | l | 302 | WVN | C23-C20-C13 | -3.42 | 117.60 | 127.20 |
| 40 | m | 611 | KC2 | CAA-C2A-C1A | -3.42 | 109.03 | 124.75 |
| 32 | B | 846 | WVN | C28-C30-C33 | -3.42 | 112.55 | 123.22 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | J | 103 | II0 | C32-C30-C26 | -3.42 | 116.66 | 126.58 |
| 38 | n | 615 | II0 | C41-C42-C40 | -3.41 | 116.48 | 123.47 |
| 29 | j | 302 | CLA | CMB-C2B-C1B | -3.41 | 123.22 | 128.46 |
| 38 | c | 313 | II0 | C32-C30-C26 | -3.41 | 116.68 | 126.58 |
| 29 | i | 306 | CLA | CMB-C2B-C1B | -3.41 | 123.22 | 128.46 |
| 29 | B | 822 | CLA | CMB-C2B-C3B | 3.41 | 131.06 | 124.68 |
| 38 | d | 315 | II0 | C34-C36-C40 | -3.41 | 113.71 | 118.94 |
| 32 | A | 854 | WVN | C38-C34-C33 | -3.41 | 112.70 | 118.08 |
| 29 | a | 309 | CLA | CMB-C2B-C1B | -3.41 | 123.23 | 128.46 |
| 32 | s | 407 | WVN | C28-C30-C33 | -3.41 | 112.58 | 123.22 |
| 29 | n | 607 | CLA | C1B-CHB-C4A | -3.41 | 123.37 | 130.12 |
| 29 | n | 607 | CLA | CMB-C2B-C3B | 3.40 | 131.05 | 124.68 |
| 29 | g | 308 | CLA | CMB-C2B-C1B | -3.40 | 123.23 | 128.46 |
| 38 | j | 301 | II0 | C06-C04-C10 | 3.40 | 116.52 | 109.62 |
| 38 | b | 314 | II0 | C29-C31-C33 | -3.40 | 112.61 | 123.22 |
| 29 | B | 801 | CLA | CMB-C2B-C1B | -3.39 | 123.25 | 128.46 |
| 29 | m | 609 | CLA | CMB-C2B-C3B | 3.39 | 131.03 | 124.68 |
| 29 | l | 303 | CLA | CMB-C2B-C1B | -3.39 | 123.25 | 128.46 |
| 38 | f | 615 | II0 | C06-C04-C10 | 3.39 | 116.49 | 109.62 |
| 29 | n | 601 | CLA | CMB-C2B-C1B | -3.39 | 123.25 | 128.46 |
| 29 | d | 309 | CLA | CAA-C2A-C3A | -3.39 | 108.19 | 116.10 |
| 29 | h | 307 | CLA | CMB-C2B-C1B | -3.39 | 123.25 | 128.46 |
| 38 | m | 618 | II0 | C05-C07-C11 | 3.39 | 114.94 | 110.30 |
| 29 | B | 824 | CLA | CMB-C2B-C3B | 3.39 | 131.01 | 124.68 |
| 32 | l | 316 | WVN | C01-C02-C05 | 3.39 | 117.48 | 111.42 |
| 38 | d | 316 | II0 | C41-C42-C40 | -3.39 | 116.54 | 123.47 |
| 29 | a | 312 | CLA | CMB-C2B-C3B | 3.39 | 131.01 | 124.68 |
| 38 | k | 620 | II0 | C20-C14-C12 | -3.38 | 108.08 | 114.36 |
| 40 | s | 401 | KC2 | C4B-C3B-C2B | -3.38 | 103.97 | 106.75 |
| 29 | m | 602 | CLA | O2D-CGD-O1D | -3.38 | 117.23 | 123.84 |
| 29 | g | 311 | CLA | O2A-CGA-O1A | -3.38 | 115.07 | 123.59 |
| 29 | f | 606 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 38 | d | 315 | II0 | C19-C13-C11 | -3.38 | 108.10 | 114.36 |
| 32 | F | 207 | WVN | C26-C29-C31 | -3.38 | 112.68 | 123.22 |
| 40 | k | 611 | KC2 | CAA-CBA-CGA | -3.37 | 109.92 | 127.26 |
| 29 | A | 819 | CLA | CMB-C2B-C3B | 3.37 | 130.99 | 124.68 |
| 38 | e | 312 | II0 | C28-C26-C24 | -3.37 | 110.16 | 116.84 |
| 38 | m | 616 | II0 | C19-C13-C11 | -3.37 | 108.11 | 114.36 |
| 29 | A | 813 | CLA | CAA-C2A-C3A | -3.37 | 103.55 | 112.78 |
| 38 | a | 315 | II0 | C19-C13-C11 | -3.37 | 108.11 | 114.36 |
| 29 | n | 613 | CLA | CMB-C2B-C1B | -3.37 | 123.28 | 128.46 |
| 29 | n | 609 | CLA | CMB-C2B-C3B | 3.37 | 130.98 | 124.68 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | b | 310 | CLA | CMB-C2B-C1B | -3.36 | 123.29 | 128.46 |
| 29 | a | 304 | CLA | CMB-C2B-C3B | 3.36 | 130.97 | 124.68 |
| 38 | i | 319 | II0 | C06-C08-C12 | 3.36 | 114.91 | 110.30 |
| 38 | l | 314 | II0 | C34-C36-C40 | -3.36 | 113.78 | 118.94 |
| 29 | j | 306 | CLA | CMB-C2B-C3B | 3.36 | 130.97 | 124.68 |
| 38 | n | 618 | II0 | C20-C14-C12 | -3.36 | 108.13 | 114.36 |
| 38 | m | 614 | II0 | C32-C30-C26 | -3.36 | 116.83 | 126.58 |
| 29 | A | 826 | CLA | CMB-C2B-C3B | 3.36 | 130.96 | 124.68 |
| 38 | f | 616 | II0 | C28-C26-C24 | -3.36 | 110.19 | 116.84 |
| 30 | B | 843 | PQN | C14-C13-C15 | -3.35 | 109.63 | 115.27 |
| 38 | a | 315 | II0 | C30-C32-C34 | -3.35 | 112.76 | 123.22 |
| 38 | b | 314 | II0 | C27-C25-C23 | -3.35 | 110.20 | 116.84 |
| 38 | g | 319 | II0 | C11-C13-C09 | -3.35 | 112.97 | 120.57 |
| 29 | h | 312 | CLA | CMB-C2B-C3B | 3.35 | 130.94 | 124.68 |
| 29 | n | 603 | CLA | CMB-C2B-C1B | -3.35 | 123.32 | 128.46 |
| 29 | h | 303 | CLA | CMB-C2B-C1B | -3.35 | 123.32 | 128.46 |
| 29 | i | 303 | CLA | O2D-CGD-CBD | 3.34 | 117.21 | 111.27 |
| 40 | c | 310 | KC2 | CHD-C4C-NC | 3.34 | 129.28 | 124.20 |
| 32 | A | 846 | WVN | C21-C15-C14 | -3.34 | 107.19 | 113.62 |
| 29 | B | 807 | CLA | CMB-C2B-C3B | 3.34 | 130.93 | 124.68 |
| 29 | e | 304 | CLA | CMB-C2B-C1B | -3.34 | 123.33 | 128.46 |
| 38 | m | 616 | II0 | C05-C07-C11 | 3.34 | 114.87 | 110.30 |
| 38 | i | 319 | II0 | C11-C13-C09 | -3.34 | 113.00 | 120.57 |
| 38 | m | 614 | II0 | C41-C42-C40 | -3.33 | 116.64 | 123.47 |
| 40 | s | 404 | KC2 | O2D-CGD-O1D | -3.33 | 117.32 | 123.84 |
| 29 | g | 323 | CLA | O2D-CGD-O1D | -3.33 | 117.33 | 123.84 |
| 38 | i | 316 | II0 | C05-C07-C11 | 3.33 | 114.86 | 110.30 |
| 38 | j | 316 | II0 | C41-C42-C40 | -3.33 | 116.66 | 123.47 |
| 38 | m | 618 | II0 | C38-C36-C34 | -3.33 | 112.83 | 118.08 |
| 29 | f | 609 | CLA | CMB-C2B-C3B | 3.33 | 130.91 | 124.68 |
| 29 | c | 304 | CLA | CMB-C2B-C3B | 3.33 | 130.90 | 124.68 |
| 29 | c | 308 | CLA | CMB-C2B-C3B | 3.33 | 130.90 | 124.68 |
| 29 | b | 306 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 29 | g | 303 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 38 | h | 309 | II0 | C05-C03-C09 | 3.32 | 116.36 | 109.62 |
| 29 | A | 811 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 29 | g | 312 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 38 | k | 616 | II0 | C15-C03-C09 | 3.32 | 115.75 | 110.47 |
| 32 | L | 201 | WVN | C26-C29-C31 | -3.32 | 112.86 | 123.22 |
| 29 | e | 305 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 29 | e | 307 | CLA | CMB-C2B-C3B | 3.32 | 130.89 | 124.68 |
| 29 | d | 306 | CLA | O2D-CGD-O1D | -3.32 | 117.35 | 123.84 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | B | 839 | CLA | CMB-C2B-C1B | -3.32 | 123.37 | 128.46 |
| 29 | a | 306 | CLA | CMB-C2B-C1B | -3.32 | 123.37 | 128.46 |
| 38 | k | 620 | II0 | C19-C13-C11 | -3.31 | 108.21 | 114.36 |
| 29 | j | 311 | CLA | CMB-C2B-C1B | -3.31 | 123.38 | 128.46 |
| 32 | A | 846 | WVN | C23-C20-C13 | -3.31 | 117.91 | 127.20 |
| 29 | B | 820 | CLA | CMB-C2B-C1B | -3.31 | 123.38 | 128.46 |
| 29 | e | 301 | CLA | CMB-C2B-C1B | -3.31 | 123.38 | 128.46 |
| 32 | s | 405 | WVN | C28-C30-C33 | -3.31 | 112.89 | 123.22 |
| 38 | e | 313 | II0 | C19-C13-C11 | -3.31 | 108.23 | 114.36 |
| 38 | k | 616 | II0 | C30-C32-C34 | -3.31 | 112.90 | 123.22 |
| 38 | a | 315 | II0 | C32-C30-C26 | -3.30 | 116.99 | 126.58 |
| 38 | h | 310 | II0 | C20-C14-C12 | -3.30 | 108.24 | 114.36 |
| 38 | l | 315 | II0 | C33-C35-C39 | -3.30 | 113.88 | 118.94 |
| 29 | k | 604 | CLA | CMB-C2B-C3B | 3.30 | 130.85 | 124.68 |
| 29 | A | 822 | CLA | CMB-C2B-C1B | -3.30 | 123.39 | 128.46 |
| 38 | a | 313 | II0 | C20-C14-C12 | -3.30 | 108.24 | 114.36 |
| 29 | n | 606 | CLA | CMB-C2B-C1B | -3.30 | 123.39 | 128.46 |
| 32 | A | 847 | WVN | C19-C22-C26 | -3.30 | 113.88 | 118.94 |
| 29 | d | 307 | CLA | CMB-C2B-C1B | -3.30 | 123.40 | 128.46 |
| 36 | B | 844 | DGD | O3G-C3G-C2G | -3.29 | 102.95 | 110.90 |
| 40 | g | 314 | KC2 | O2D-CGD-CBD | 3.29 | 117.12 | 111.27 |
| 38 | g | 318 | II0 | C20-C14-C12 | -3.29 | 108.26 | 114.36 |
| 29 | l | 310 | CLA | CMB-C2B-C1B | -3.29 | 123.41 | 128.46 |
| 29 | A | 837 | CLA | CMB-C2B-C1B | -3.29 | 123.41 | 128.46 |
| 38 | f | 616 | II0 | C12-C14-C10 | -3.29 | 113.11 | 120.57 |
| 40 | g | 315 | KC2 | CBC-CAC-C3C | -3.29 | 111.27 | 127.62 |
| 29 | B | 821 | CLA | CMB-C2B-C1B | -3.28 | 123.42 | 128.46 |
| 29 | A | 828 | CLA | CMB-C2B-C3B | 3.28 | 130.82 | 124.68 |
| 38 | l | 314 | II0 | C30-C32-C34 | -3.28 | 112.97 | 123.22 |
| 32 | B | 847 | WVN | C10-C06-C13 | 3.28 | 115.53 | 110.48 |
| 38 | l | 313 | II0 | C11-C13-C09 | -3.28 | 113.13 | 120.57 |
| 29 | g | 323 | CLA | CMB-C2B-C1B | -3.28 | 123.43 | 128.46 |
| 38 | l | 314 | II0 | C38-C36-C34 | -3.28 | 112.92 | 118.08 |
| 29 | B | 841 | CLA | CMB-C2B-C1B | -3.27 | 123.43 | 128.46 |
| 29 | d | 318 | CLA | CMB-C2B-C1B | -3.27 | 123.43 | 128.46 |
| 29 | k | 602 | CLA | CMB-C2B-C1B | -3.27 | 123.43 | 128.46 |
| 38 | g | 318 | II0 | C19-C13-C11 | -3.27 | 108.29 | 114.36 |
| 32 | s | 407 | WVN | C21-C15-C14 | -3.27 | 107.33 | 113.62 |
| 29 | g | 310 | CLA | O2D-CGD-O1D | -3.27 | 117.44 | 123.84 |
| 29 | d | 310 | CLA | CMB-C2B-C1B | -3.27 | 123.44 | 128.46 |
| 38 | f | 618 | II0 | C32-C30-C26 | -3.27 | 117.09 | 126.58 |
| 38 | d | 301 | II0 | C29-C31-C33 | -3.27 | 113.02 | 123.22 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 822 | CLA | O2D-CGD-O1D | -3.27 | 117.45 | 123.84 |
| 29 | A | 823 | CLA | CMB-C2B-C1B | -3.26 | 123.45 | 128.46 |
| 29 | A | 850 | CLA | C1B-CHB-C4A | -3.26 | 123.66 | 130.12 |
| 29 | k | 614 | CLA | CMB-C2B-C3B | 3.26 | 130.78 | 124.68 |
| 29 | i | 303 | CLA | CMB-C2B-C1B | -3.26 | 123.45 | 128.46 |
| 29 | d | 307 | CLA | O2D-CGD-O1D | -3.26 | 117.47 | 123.84 |
| 29 | B | 823 | CLA | CMB-C2B-C3B | 3.26 | 130.78 | 124.68 |
| 32 | L | 201 | WVN | C01-C02-C05 | 3.26 | 117.25 | 111.42 |
| 29 | B | 834 | CLA | CMB-C2B-C3B | 3.26 | 130.77 | 124.68 |
| 40 | c | 310 | KC2 | C4B-C3B-C2B | -3.26 | 104.08 | 106.75 |
| 29 | g | 316 | CLA | CMB-C2B-C1B | -3.26 | 123.46 | 128.46 |
| 32 | F | 205 | WVN | C26-C29-C31 | -3.25 | 113.07 | 123.22 |
| 29 | a | 307 | CLA | O2D-CGD-O1D | -3.25 | 117.48 | 123.84 |
| 29 | B | 827 | CLA | O2D-CGD-O1D | -3.25 | 117.49 | 123.84 |
| 29 | B | 813 | CLA | CMB-C2B-C3B | 3.25 | 130.75 | 124.68 |
| 38 | g | 317 | II0 | C30-C32-C34 | -3.25 | 113.08 | 123.22 |
| 29 | B | 803 | CLA | O2D-CGD-O1D | -3.25 | 117.49 | 123.84 |
| 29 | m | 610 | CLA | CMB-C2B-C1B | -3.24 | 123.48 | 128.46 |
| 38 | a | 317 | II0 | C29-C31-C33 | -3.24 | 113.09 | 123.22 |
| 38 | e | 314 | II0 | C20-C14-C12 | -3.24 | 108.35 | 114.36 |
| 38 | b | 301 | II0 | C29-C31-C33 | -3.24 | 113.10 | 123.22 |
| 38 | e | 314 | II0 | C28-C26-C24 | -3.24 | 110.42 | 116.84 |
| 32 | A | 844 | WVN | C02-C05-C09 | -3.24 | 117.48 | 121.47 |
| 29 | A | 832 | CLA | CMB-C2B-C1B | -3.24 | 123.48 | 128.46 |
| 38 | g | 319 | II0 | C41-C42-C40 | -3.24 | 116.84 | 123.47 |
| 38 | i | 313 | II0 | C29-C31-C33 | -3.23 | 113.13 | 123.22 |
| 38 | j | 315 | II0 | C41-C42-C40 | -3.23 | 116.85 | 123.47 |
| 29 | j | 309 | CLA | CMB-C2B-C3B | 3.23 | 130.72 | 124.68 |
| 40 | l | 311 | KC2 | C1A-NA-C4A | -3.23 | 105.25 | 106.71 |
| 29 | a | 302 | CLA | CMB-C2B-C3B | 3.23 | 130.72 | 124.68 |
| 32 | I | 101 | WVN | C23-C20-C13 | -3.23 | 118.14 | 127.20 |
| 29 | k | 605 | CLA | O2D-CGD-O1D | -3.22 | 117.53 | 123.84 |
| 29 | B | 831 | CLA | CMB-C2B-C3B | 3.22 | 130.71 | 124.68 |
| 29 | c | 309 | CLA | CMB-C2B-C3B | 3.22 | 130.71 | 124.68 |
| 29 | i | 305 | CLA | CMB-C2B-C3B | 3.22 | 130.71 | 124.68 |
| 29 | A | 827 | CLA | C1B-CHB-C4A | -3.22 | 123.74 | 130.12 |
| 29 | k | 601 | CLA | O2D-CGD-O1D | -3.22 | 117.54 | 123.84 |
| 29 | l | 309 | CLA | CMB-C2B-C3B | 3.22 | 130.70 | 124.68 |
| 29 | f | 612 | CLA | CMB-C2B-C3B | 3.22 | 130.70 | 124.68 |
| 29 | h | 305 | CLA | CMB-C2B-C3B | 3.22 | 130.70 | 124.68 |
| 38 | g | 319 | II0 | C20-C14-C12 | -3.21 | 108.40 | 114.36 |
| 32 | A | 845 | WVN | C16-C05-C09 | -3.21 | 110.90 | 122.33 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | i | 316 | II0 | C20-C14-C12 | -3.21 | 108.40 | 114.36 |
| 29 | n | 608 | CLA | CMB-C2B-C1B | -3.21 | 123.53 | 128.46 |
| 38 | b | 301 | II0 | C06-C04-C10 | 3.21 | 116.13 | 109.62 |
| 29 | m | 608 | CLA | CMB-C2B-C1B | -3.21 | 123.53 | 128.46 |
| 29 | L | 203 | CLA | CMB-C2B-C3B | 3.21 | 130.69 | 124.68 |
| 32 | e | 315 | WVN | C26-C29-C31 | -3.21 | 113.20 | 123.22 |
| 29 | B | 838 | CLA | O2D-CGD-O1D | -3.21 | 117.56 | 123.84 |
| 32 | B | 849 | WVN | C14-C15-C13 | -3.21 | 118.07 | 122.73 |
| 32 | A | 854 | WVN | C21-C15-C14 | -3.21 | 107.45 | 113.62 |
| 32 | e | 315 | WVN | C24-C22-C19 | -3.21 | 113.02 | 118.08 |
| 29 | A | 835 | CLA | O2D-CGD-O1D | -3.20 | 117.57 | 123.84 |
| 29 | B | 806 | CLA | CMB-C2B-C3B | 3.20 | 130.66 | 124.68 |
| 32 | B | 847 | WVN | C21-C15-C14 | -3.20 | 107.47 | 113.62 |
| 29 | B | 808 | CLA | CMB-C2B-C1B | -3.20 | 123.55 | 128.46 |
| 29 | B | 802 | CLA | O2D-CGD-O1D | -3.20 | 117.59 | 123.84 |
| 38 | a | 315 | II0 | C12-C14-C10 | -3.20 | 113.31 | 120.57 |
| 29 | j | 313 | CLA | O2D-CGD-O1D | -3.20 | 117.59 | 123.84 |
| 38 | e | 313 | II0 | C12-C14-C10 | -3.20 | 113.31 | 120.57 |
| 29 | l | 312 | CLA | CMB-C2B-C3B | 3.20 | 130.66 | 124.68 |
| 32 | R | 201 | WVN | C01-C02-C05 | 3.19 | 117.14 | 111.42 |
| 38 | n | 618 | II0 | C29-C31-C33 | -3.19 | 113.26 | 123.22 |
| 32 | s | 405 | WVN | C26-C29-C31 | -3.19 | 113.26 | 123.22 |
| 38 | g | 319 | II0 | C19-C13-C11 | -3.19 | 108.44 | 114.36 |
| 38 | f | 615 | II0 | C41-C42-C40 | -3.19 | 116.94 | 123.47 |
| 40 | g | 314 | KC2 | CAA-CBA-CGA | -3.19 | 110.88 | 127.26 |
| 32 | s | 405 | WVN | C23-C25-C28 | -3.19 | 114.05 | 118.94 |
| 38 | d | 317 | II0 | C06-C04-C10 | 3.19 | 116.08 | 109.62 |
| 38 | i | 319 | II0 | C19-C13-C11 | -3.19 | 108.45 | 114.36 |
| 40 | j | 312 | KC2 | CAA-CBA-CGA | -3.19 | 110.88 | 127.26 |
| 38 | J | 103 | II0 | C29-C31-C33 | -3.19 | 113.27 | 123.22 |
| 38 | i | 316 | II0 | C29-C31-C33 | -3.18 | 113.28 | 123.22 |
| 40 | n | 611 | KC2 | CAA-CBA-CGA | -3.18 | 110.90 | 127.26 |
| 29 | i | 305 | CLA | O2D-CGD-O1D | -3.18 | 117.61 | 123.84 |
| 29 | A | 824 | CLA | O2D-CGD-O1D | -3.18 | 117.62 | 123.84 |
| 40 | i | 318 | KC2 | CAA-CBA-CGA | -3.18 | 110.91 | 127.26 |
| 38 | h | 310 | II0 | C29-C31-C33 | -3.18 | 113.29 | 123.22 |
| 29 | a | 310 | CLA | CMB-C2B-C3B | 3.18 | 130.63 | 124.68 |
| 29 | i | 304 | CLA | CMB-C2B-C3B | 3.18 | 130.63 | 124.68 |
| 29 | k | 614 | CLA | C1B-CHB-C4A | -3.18 | 123.82 | 130.12 |
| 38 | a | 313 | II0 | C41-C42-C40 | -3.18 | 116.96 | 123.47 |
| 29 | B | 808 | CLA | O2D-CGD-O1D | -3.18 | 117.63 | 123.84 |
| 29 | n | 610 | CLA | O2D-CGD-O1D | -3.18 | 117.63 | 123.84 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | B | 805 | CLA | CHB-C4A-NA | 3.18 | 128.90 | 124.51 |
| 32 | R | 202 | WVN | C20-C13-C15 | -3.17 | 113.77 | 121.46 |
| 29 | c | 305 | CLA | CMB-C2B-C1B | -3.17 | 123.58 | 128.46 |
| 29 | K | 101 | CLA | CMB-C2B-C3B | 3.17 | 130.62 | 124.68 |
| 38 | k | 615 | II0 | C19-C13-C11 | -3.17 | 108.48 | 114.36 |
| 29 | s | 403 | CLA | CMB-C2B-C3B | 3.17 | 130.61 | 124.68 |
| 32 | R | 202 | WVN | C01-C02-C11 | -3.17 | 108.69 | 112.70 |
| 29 | n | 604 | CLA | CBA-CAA-C2A | 3.16 | 123.20 | 113.86 |
| 38 | j | 315 | II0 | C06-C04-C10 | 3.16 | 116.03 | 109.62 |
| 29 | b | 309 | CLA | CMB-C2B-C3B | 3.16 | 130.59 | 124.68 |
| 38 | e | 313 | II0 | C20-C14-C12 | -3.16 | 108.50 | 114.36 |
| 29 | g | 304 | CLA | CMB-C2B-C1B | -3.16 | 123.61 | 128.46 |
| 32 | s | 407 | WVN | C26-C29-C31 | -3.16 | 113.36 | 123.22 |
| 29 | A | 829 | CLA | CMB-C2B-C3B | 3.16 | 130.59 | 124.68 |
| 38 | b | 301 | II0 | C05-C03-C09 | 3.16 | 116.02 | 109.62 |
| 29 | A | 810 | CLA | CMB-C2B-C3B | 3.16 | 130.58 | 124.68 |
| 40 | c | 310 | KC2 | C2C-C1C-NC | 3.15 | 114.02 | 110.57 |
| 38 | e | 312 | II0 | C19-C13-C11 | -3.15 | 108.52 | 114.36 |
| 32 | A | 846 | WVN | C10-C06-C13 | 3.15 | 115.33 | 110.48 |
| 29 | m | 607 | CLA | C1B-CHB-C4A | -3.15 | 123.88 | 130.12 |
| 29 | f | 612 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 29 | A | 835 | CLA | CMB-C2B-C1B | -3.15 | 123.63 | 128.46 |
| 32 | B | 849 | WVN | C21-C15-C14 | -3.15 | 107.57 | 113.62 |
| 32 | I | 101 | WVN | C19-C22-C26 | -3.14 | 114.11 | 118.94 |
| 29 | b | 311 | CLA | CHB-C4A-NA | 3.14 | 128.86 | 124.51 |
| 38 | a | 315 | II0 | C11-C13-C09 | -3.14 | 113.43 | 120.57 |
| 38 | h | 310 | II0 | C19-C13-C11 | -3.14 | 108.53 | 114.36 |
| 40 | i | 310 | KC2 | CAA-CBA-CGA | -3.14 | 111.11 | 127.26 |
| 29 | s | 402 | CLA | CMB-C2B-C3B | 3.14 | 130.55 | 124.68 |
| 29 | k | 614 | CLA | CBC-CAC-C3C | 3.13 | 121.07 | 112.43 |
| 38 | i | 319 | II0 | C34-C36-C40 | -3.13 | 114.13 | 118.94 |
| 29 | j | 306 | CLA | CHB-C4A-NA | 3.13 | 128.84 | 124.51 |
| 40 | i | 310 | KC2 | CHD-C4C-NC | 3.13 | 128.95 | 124.20 |
| 32 | B | 849 | WVN | C26-C29-C31 | -3.13 | 113.46 | 123.22 |
| 38 | a | 317 | II0 | C20-C14-C12 | -3.13 | 108.56 | 114.36 |
| 38 | f | 618 | II0 | C05-C07-C11 | 3.13 | 114.58 | 110.30 |
| 29 | n | 605 | CLA | CMB-C2B-C3B | 3.12 | 130.52 | 124.68 |
| 38 | d | 317 | II0 | C11-C13-C09 | -3.12 | 113.48 | 120.57 |
| 29 | B | 836 | CLA | CMB-C2B-C3B | 3.12 | 130.52 | 124.68 |
| 29 | b | 305 | CLA | CMB-C2B-C3B | 3.12 | 130.51 | 124.68 |
| 32 | R | 202 | WVN | C16-C05-C09 | -3.12 | 111.24 | 122.33 |
| 38 | j | 316 | II0 | C19-C13-C11 | -3.12 | 108.58 | 114.36 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | c | 311 | CLA | CMB-C2B-C3B | 3.12 | 130.51 | 124.68 |
| 29 | d | 309 | CLA | CMB-C2B-C3B | 3.12 | 130.51 | 124.68 |
| 29 | j | 308 | CLA | O2D-CGD-O1D | -3.11 | 117.75 | 123.84 |
| 40 | s | 404 | KC2 | CMB-C2B-C1B | 3.11 | 130.20 | 124.71 |
| 32 | R | 202 | WVN | C26-C29-C31 | -3.11 | 113.50 | 123.22 |
| 32 | A | 846 | WVN | C26-C29-C31 | -3.11 | 113.51 | 123.22 |
| 29 | A | 806 | CLA | O2D-CGD-O1D | -3.11 | 117.76 | 123.84 |
| 29 | A | 825 | CLA | O2D-CGD-O1D | -3.11 | 117.76 | 123.84 |
| 32 | F | 205 | WVN | C06-C13-C20 | -3.11 | 106.99 | 115.78 |
| 38 | b | 314 | II0 | C11-C13-C09 | -3.11 | 113.52 | 120.57 |
| 38 | i | 314 | II0 | C06-C04-C10 | 3.11 | 115.91 | 109.62 |
| 29 | B | 837 | CLA | CMB-C2B-C1B | -3.10 | 123.69 | 128.46 |
| 29 | m | 602 | CLA | CBC-CAC-C3C | 3.10 | 120.99 | 112.43 |
| 32 | L | 201 | WVN | C01-C02-C11 | -3.10 | 108.78 | 112.70 |
| 29 | d | 304 | CLA | CHB-C4A-NA | 3.10 | 128.80 | 124.51 |
| 29 | d | 306 | CLA | CMB-C2B-C1B | -3.10 | 123.70 | 128.46 |
| 38 | O | 203 | II0 | C42-C41-C39 | -3.10 | 117.13 | 123.47 |
| 32 | A | 844 | WVN | C26-C29-C31 | -3.10 | 113.55 | 123.22 |
| 29 | s | 402 | CLA | O2D-CGD-O1D | -3.10 | 117.78 | 123.84 |
| 29 | k | 607 | CLA | CMB-C2B-C3B | 3.10 | 130.47 | 124.68 |
| 38 | a | 317 | II0 | C30-C32-C34 | -3.10 | 113.56 | 123.22 |
| 29 | A | 831 | CLA | O2D-CGD-O1D | -3.10 | 117.78 | 123.84 |
| 29 | m | 612 | CLA | CMB-C2B-C3B | 3.10 | 130.47 | 124.68 |
| 29 | B | 822 | CLA | O2A-CGA-O1A | -3.09 | 115.79 | 123.59 |
| 38 | f | 616 | II0 | C27-C25-C23 | -3.09 | 110.72 | 116.84 |
| 29 | A | 836 | CLA | CMB-C2B-C3B | 3.09 | 130.46 | 124.68 |
| 29 | h | 304 | CLA | CHB-C4A-NA | 3.09 | 128.78 | 124.51 |
| 32 | F | 205 | WVN | C28-C30-C33 | -3.08 | 113.60 | 123.22 |
| 40 | m | 611 | KC2 | CAA-CBA-CGA | -3.08 | 111.42 | 127.26 |
| 29 | B | 804 | CLA | CBC-CAC-C3C | 3.08 | 120.93 | 112.43 |
| 29 | B | 815 | CLA | O2D-CGD-O1D | -3.08 | 117.81 | 123.84 |
| 29 | Q | 302 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 29 | c | 312 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 29 | g | 310 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 32 | B | 849 | WVN | C39-C40-C37 | -3.08 | 117.17 | 123.47 |
| 38 | g | 318 | II0 | C41-C42-C40 | -3.07 | 117.17 | 123.47 |
| 29 | b | 312 | CLA | CMB-C2B-C1B | -3.07 | 123.74 | 128.46 |
| 38 | j | 316 | II0 | C06-C04-C10 | 3.07 | 115.85 | 109.62 |
| 29 | B | 840 | CLA | CAA-C2A-C3A | -3.07 | 104.36 | 112.78 |
| 29 | g | 306 | CLA | CAC-C3C-C4C | -3.07 | 120.83 | 124.81 |
| 38 | d | 314 | II0 | C05-C07-C11 | -3.07 | 106.10 | 110.30 |
| 29 | l | 306 | CLA | CMB-C2B-C3B | 3.07 | 130.42 | 124.68 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 40 | d | 311 | KC2 | CAA-C2A-C1A | -3.07 | 110.65 | 124.75 |
| 29 | B | 816 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 29 | i | 302 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 29 | d | 313 | CLA | O2D-CGD-O1D | -3.06 | 117.85 | 123.84 |
| 38 | d | 317 | II0 | C19-C13-C11 | -3.06 | 108.68 | 114.36 |
| 40 | g | 315 | KC2 | C4B-C3B-C2B | -3.06 | 104.24 | 106.75 |
| 29 | f | 608 | CLA | O2D-CGD-O1D | -3.06 | 117.85 | 123.84 |
| 29 | L | 204 | CLA | O2D-CGD-O1D | -3.06 | 117.85 | 123.84 |
| 32 | B | 848 | WVN | C39-C40-C37 | -3.06 | 117.21 | 123.47 |
| 29 | k | 606 | CLA | CMB-C2B-C3B | 3.06 | 130.40 | 124.68 |
| 29 | K | 101 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 29 | B | 822 | CLA | C4-C3-C2 | -3.05 | 115.84 | 123.68 |
| 38 | i | 313 | II0 | C11-C13-C09 | -3.05 | 113.64 | 120.57 |
| 38 | h | 310 | II0 | C12-C14-C10 | -3.05 | 113.64 | 120.57 |
| 29 | m | 601 | CLA | O2D-CGD-O1D | -3.05 | 117.87 | 123.84 |
| 29 | s | 406 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 38 | n | 614 | II0 | C03-C05-C07 | 3.05 | 120.53 | 113.64 |
| 29 | A | 818 | CLA | C1B-CHB-C4A | -3.05 | 124.08 | 130.12 |
| 38 | f | 616 | II0 | C19-C13-C11 | -3.05 | 108.70 | 114.36 |
| 38 | m | 618 | II0 | C19-C13-C11 | -3.05 | 108.71 | 114.36 |
| 29 | A | 810 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 29 | i | 311 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 29 | A | 826 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 38 | f | 615 | II0 | C38-C36-C34 | -3.05 | 113.28 | 118.08 |
| 38 | g | 317 | II0 | C33-C35-C39 | -3.05 | 114.27 | 118.94 |
| 40 | d | 311 | KC2 | CMB-C2B-C1B | 3.04 | 130.08 | 124.71 |
| 29 | n | 604 | CLA | CHB-C4A-NA | 3.04 | 128.72 | 124.51 |
| 29 | m | 605 | CLA | CMB-C2B-C3B | 3.04 | 130.37 | 124.68 |
| 35 | A | 853 | SQD | C44-O6-C1 | 3.04 | 119.69 | 113.74 |
| 38 | n | 618 | II0 | C06-C04-C10 | 3.04 | 115.79 | 109.62 |
| 32 | i | 315 | WVN | C10-C06-C13 | 3.04 | 115.17 | 110.48 |
| 40 | e | 309 | KC2 | CAA-CBA-CGA | -3.04 | 111.63 | 127.26 |
| 38 | c | 313 | II0 | C20-C14-C12 | -3.04 | 108.72 | 114.36 |
| 29 | B | 835 | CLA | CMB-C2B-C1B | -3.04 | 123.79 | 128.46 |
| 38 | k | 619 | II0 | C30-C32-C34 | -3.04 | 113.73 | 123.22 |
| 29 | B | 810 | CLA | O2D-CGD-O1D | -3.04 | 117.89 | 123.84 |
| 29 | k | 601 | CLA | CMB-C2B-C3B | 3.04 | 130.37 | 124.68 |
| 29 | j | 309 | CLA | O2D-CGD-O1D | -3.04 | 117.90 | 123.84 |
| 29 | g | 308 | CLA | O2D-CGD-O1D | -3.03 | 117.91 | 123.84 |
| 38 | m | 615 | II0 | C11-C13-C09 | -3.03 | 113.69 | 120.57 |
| 29 | n | 613 | CLA | C1B-CHB-C4A | -3.03 | 124.11 | 130.12 |
| 29 | B | 814 | CLA | CMB-C2B-C3B | 3.03 | 130.35 | 124.68 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | d | 313 | CLA | CMB-C2B-C3B | 3.03 | 130.34 | 124.68 |
| 29 | B | 807 | CLA | O2D-CGD-O1D | -3.02 | 117.92 | 123.84 |
| 29 | g | 306 | CLA | CMC-C2C-C3C | 3.02 | 134.32 | 126.12 |
| 29 | d | 304 | CLA | CMB-C2B-C3B | 3.02 | 130.33 | 124.68 |
| 29 | c | 304 | CLA | O2D-CGD-O1D | -3.02 | 117.93 | 123.84 |
| 35 | A | 853 | SQD | O8-S-C6 | 3.02 | 110.55 | 105.74 |
| 29 | e | 302 | CLA | O2D-CGD-O1D | -3.02 | 117.94 | 123.84 |
| 29 | k | 610 | CLA | CHB-C4A-NA | 3.02 | 128.68 | 124.51 |
| 29 | B | 841 | CLA | CHB-C4A-NA | 3.01 | 128.68 | 124.51 |
| 29 | n | 602 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 29 | g | 311 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 33 | A | 849 | LMU | C2'-C3'-C4' | 3.01 | 116.55 | 109.68 |
| 38 | a | 313 | II0 | C12-C14-C10 | -3.01 | 113.74 | 120.57 |
| 29 | B | 817 | CLA | O2D-CGD-O1D | -3.01 | 117.96 | 123.84 |
| 29 | a | 307 | CLA | CMB-C2B-C3B | 3.01 | 130.30 | 124.68 |
| 29 | B | 820 | CLA | O2D-CGD-O1D | -3.01 | 117.96 | 123.84 |
| 40 | g | 315 | KC2 | CHD-C4C-NC | 3.00 | 128.76 | 124.20 |
| 29 | A | 807 | CLA | O2D-CGD-O1D | -3.00 | 117.96 | 123.84 |
| 29 | e | 304 | CLA | O2D-CGD-O1D | -3.00 | 117.96 | 123.84 |
| 29 | B | 829 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | f | 605 | CLA | CMB-C2B-C3B | 3.00 | 130.29 | 124.68 |
| 29 | i | 312 | CLA | CMB-C2B-C3B | 3.00 | 130.29 | 124.68 |
| 38 | k | 615 | II0 | C08-C12-C14 | 3.00 | 117.83 | 111.85 |
| 29 | L | 203 | CLA | CHB-C4A-NA | 3.00 | 128.66 | 124.51 |
| 29 | A | 829 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |
| 29 | R | 203 | CLA | C1B-CHB-C4A | -3.00 | 124.18 | 130.12 |
| 29 | A | 803 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |
| 38 | n | 618 | II0 | C08-C12-C14 | 2.99 | 117.82 | 111.85 |
| 38 | k | 615 | II0 | C06-C04-C10 | 2.99 | 115.69 | 109.62 |
| 29 | B | 802 | CLA | C1B-CHB-C4A | -2.99 | 124.19 | 130.12 |
| 29 | l | 306 | CLA | O2D-CGD-O1D | -2.99 | 117.98 | 123.84 |
| 29 | A | 815 | CLA | O2D-CGD-O1D | -2.99 | 117.98 | 123.84 |
| 38 | m | 616 | II0 | C11-C13-C09 | -2.99 | 113.78 | 120.57 |
| 29 | i | 311 | CLA | O2D-CGD-O1D | -2.99 | 117.99 | 123.84 |
| 38 | a | 315 | II0 | C20-C14-C12 | -2.99 | 108.81 | 114.36 |
| 29 | A | 819 | CLA | O2D-CGD-O1D | -2.99 | 117.99 | 123.84 |
| 38 | d | 317 | II0 | C29-C31-C33 | -2.99 | 113.89 | 123.22 |
| 29 | n | 613 | CLA | CMB-C2B-C3B | 2.99 | 130.27 | 124.68 |
| 29 | h | 306 | CLA | CMB-C2B-C1B | -2.99 | 123.87 | 128.46 |
| 38 | n | 615 | II0 | C27-C25-C23 | -2.99 | 110.92 | 116.84 |
| 29 | B | 830 | CLA | CMB-C2B-C1B | -2.99 | 123.87 | 128.46 |
| 38 | h | 310 | II0 | C11-C13-C09 | -2.99 | 113.79 | 120.57 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | k | 610 | CLA | CMB-C2B-C3B | 2.99 | 130.26 | 124.68 |
| 29 | e | 306 | CLA | O2D-CGD-O1D | -2.98 | 118.00 | 123.84 |
| 29 | b | 304 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 29 | b | 313 | CLA | CHB-C4A-NA | 2.98 | 128.63 | 124.51 |
| 29 | f | 602 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 29 | f | 613 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 29 | d | 302 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 29 | B | 833 | CLA | O2D-CGD-O1D | -2.98 | 118.02 | 123.84 |
| 38 | a | 317 | II0 | C19-C13-C11 | -2.98 | 108.84 | 114.36 |
| 38 | m | 616 | II0 | C29-C31-C33 | -2.98 | 113.93 | 123.22 |
| 29 | d | 308 | CLA | CMB-C2B-C1B | -2.97 | 123.89 | 128.46 |
| 29 | B | 835 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 32 | J | 101 | WVN | C01-C02-C11 | -2.97 | 108.94 | 112.70 |
| 32 | I | 101 | WVN | C26-C29-C31 | -2.97 | 113.95 | 123.22 |
| 29 | n | 610 | CLA | CMB-C2B-C3B | 2.97 | 130.24 | 124.68 |
| 38 | g | 319 | II0 | C12-C14-C10 | -2.97 | 113.83 | 120.57 |
| 29 | c | 306 | CLA | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 29 | B | 824 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 29 | A | 851 | CLA | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 38 | d | 301 | II0 | C20-C14-C12 | -2.97 | 108.86 | 114.36 |
| 29 | m | 603 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 29 | k | 610 | CLA | C2A-C1A-CHA | 2.97 | 129.05 | 123.86 |
| 29 | L | 202 | CLA | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 29 | A | 823 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 29 | j | 303 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 32 | A | 844 | WVN | C01-C02-C05 | 2.96 | 116.73 | 111.42 |
| 29 | k | 608 | CLA | CMB-C2B-C3B | 2.96 | 130.22 | 124.68 |
| 29 | c | 306 | CLA | C1B-CHB-C4A | -2.96 | 124.25 | 130.12 |
| 29 | F | 202 | CLA | O2D-CGD-O1D | -2.96 | 118.05 | 123.84 |
| 29 | A | 808 | CLA | CMB-C2B-C1B | -2.96 | 123.91 | 128.46 |
| 40 | j | 312 | KC2 | CHB-C1B-NB | -2.96 | 121.73 | 124.45 |
| 29 | a | 302 | CLA | CBA-CAA-C2A | 2.96 | 122.60 | 113.86 |
| 29 | m | 606 | CLA | CMB-C2B-C3B | 2.96 | 130.21 | 124.68 |
| 29 | l | 307 | CLA | CMB-C2B-C3B | 2.96 | 130.21 | 124.68 |
| 38 | g | 319 | II0 | C05-C07-C11 | 2.96 | 114.35 | 110.30 |
| 29 | g | 311 | CLA | CHB-C4A-NA | 2.96 | 128.60 | 124.51 |
| 38 | O | 203 | II0 | C41-C42-C40 | 2.96 | 129.53 | 123.47 |
| 40 | g | 313 | KC2 | CAA-C2A-C1A | -2.96 | 111.15 | 124.75 |
| 29 | B | 828 | CLA | CMB-C2B-C1B | -2.96 | 123.92 | 128.46 |
| 29 | c | 301 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 29 | j | 307 | CLA | CMB-C2B-C3B | 2.96 | 130.21 | 124.68 |
| 40 | i | 318 | KC2 | CAA-C2A-C1A | -2.96 | 111.16 | 124.75 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 836 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 29 | A | 840 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 29 | B | 822 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 29 | F | 201 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 29 | b | 313 | CLA | CMB-C2B-C3B | 2.96 | 130.21 | 124.68 |
| 29 | B | 808 | CLA | CHB-C4A-NA | 2.95 | 128.60 | 124.51 |
| 29 | A | 817 | CLA | O2D-CGD-O1D | -2.95 | 118.06 | 123.84 |
| 29 | b | 310 | CLA | O2D-CGD-O1D | -2.95 | 118.06 | 123.84 |
| 29 | j | 310 | CLA | O2D-CGD-O1D | -2.95 | 118.06 | 123.84 |
| 29 | A | 813 | CLA | O2D-CGD-O1D | -2.95 | 118.07 | 123.84 |
| 29 | B | 824 | CLA | CHB-C4A-NA | 2.95 | 128.59 | 124.51 |
| 29 | e | 304 | CLA | CHB-C4A-NA | 2.95 | 128.59 | 124.51 |
| 29 | g | 309 | CLA | O2D-CGD-O1D | -2.95 | 118.07 | 123.84 |
| 29 | e | 311 | CLA | CMB-C2B-C3B | 2.95 | 130.19 | 124.68 |
| 29 | A | 823 | CLA | CHB-C4A-NA | 2.95 | 128.59 | 124.51 |
| 29 | f | 606 | CLA | O2D-CGD-O1D | -2.95 | 118.08 | 123.84 |
| 29 | g | 309 | CLA | CHB-C4A-NA | 2.95 | 128.59 | 124.51 |
| 29 | l | 309 | CLA | O2D-CGD-O1D | -2.95 | 118.08 | 123.84 |
| 29 | k | 608 | CLA | O2D-CGD-O1D | -2.94 | 118.08 | 123.84 |
| 37 | b | 319 | LMG | O6-C1-O1 | -2.94 | 103.01 | 109.97 |
| 29 | l | 305 | CLA | CHB-C4A-NA | 2.94 | 128.58 | 124.51 |
| 29 | d | 309 | CLA | O2D-CGD-O1D | -2.94 | 118.09 | 123.84 |
| 29 | A | 840 | CLA | CHB-C4A-NA | 2.94 | 128.57 | 124.51 |
| 29 | k | 609 | CLA | CHB-C4A-NA | 2.94 | 128.57 | 124.51 |
| 29 | A | 809 | CLA | CMB-C2B-C3B | 2.93 | 130.17 | 124.68 |
| 40 | g | 315 | KC2 | CAA-C2A-C1A | -2.93 | 111.26 | 124.75 |
| 29 | B | 819 | CLA | O2D-CGD-O1D | -2.93 | 118.10 | 123.84 |
| 29 | B | 822 | CLA | O2A-C1-C2 | -2.93 | 100.93 | 108.64 |
| 28 | A | 801 | CL0 | CHA-C1A-NA | -2.93 | 119.69 | 126.40 |
| 29 | c | 302 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 32 | L | 201 | WVN | C21-C15-C14 | -2.93 | 107.99 | 113.62 |
| 29 | A | 814 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 29 | B | 822 | CLA | CHB-C4A-NA | 2.93 | 128.56 | 124.51 |
| 38 | k | 616 | II0 | C41-C42-C40 | -2.93 | 117.48 | 123.47 |
| 29 | i | 312 | CLA | CHB-C4A-NA | 2.93 | 128.56 | 124.51 |
| 38 | h | 309 | II0 | C15-C03-C09 | -2.92 | 105.82 | 110.47 |
| 29 | h | 307 | CLA | CMB-C2B-C3B | 2.92 | 130.15 | 124.68 |
| 29 | k | 605 | CLA | CMB-C2B-C3B | 2.92 | 130.15 | 124.68 |
| 32 | F | 205 | WVN | C12-C14-C15 | -2.92 | 108.86 | 114.08 |
| 29 | l | 307 | CLA | CHB-C4A-NA | 2.92 | 128.56 | 124.51 |
| 29 | i | 308 | CLA | CHB-C4A-NA | 2.92 | 128.56 | 124.51 |
| 38 | j | 301 | II0 | C29-C31-C33 | -2.92 | 114.10 | 123.22 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | e | 312 | II0 | C20-C14-C12 | -2.92 | 108.94 | 114.36 |
| 38 | d | 316 | II0 | C08-C12-C14 | 2.92 | 117.67 | 111.85 |
| 40 | s | 404 | KC2 | C1A-NA-C4A | -2.92 | 105.39 | 106.71 |
| 29 | c | 305 | CLA | O2D-CGD-O1D | -2.92 | 118.13 | 123.84 |
| 29 | e | 308 | CLA | CMB-C2B-C3B | 2.92 | 130.14 | 124.68 |
| 29 | O | 202 | CLA | CMB-C2B-C3B | 2.92 | 130.14 | 124.68 |
| 29 | i | 304 | CLA | CHB-C4A-NA | 2.92 | 128.55 | 124.51 |
| 29 | B | 811 | CLA | O2D-CGD-O1D | -2.92 | 118.13 | 123.84 |
| 29 | A | 826 | CLA | CHB-C4A-NA | 2.92 | 128.55 | 124.51 |
| 38 | j | 316 | II0 | C11-C13-C09 | -2.92 | 113.95 | 120.57 |
| 38 | a | 315 | II0 | C05-C03-C09 | 2.92 | 115.53 | 109.62 |
| 37 | Q | 301 | LMG | O6-C1-O1 | -2.92 | 103.07 | 109.97 |
| 29 | A | 838 | CLA | CMB-C2B-C3B | 2.92 | 130.13 | 124.68 |
| 38 | k | 620 | II0 | C29-C31-C33 | -2.91 | 114.12 | 123.22 |
| 29 | n | 601 | CLA | O2D-CGD-O1D | -2.91 | 118.14 | 123.84 |
| 29 | j | 314 | CLA | C1B-CHB-C4A | -2.91 | 124.35 | 130.12 |
| 38 | j | 315 | II0 | C05-C07-C11 | 2.91 | 114.29 | 110.30 |
| 29 | A | 837 | CLA | O2D-CGD-O1D | -2.91 | 118.14 | 123.84 |
| 29 | A | 816 | CLA | CHB-C4A-NA | 2.91 | 128.54 | 124.51 |
| 29 | B | 823 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 29 | n | 608 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 29 | B | 840 | CLA | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 38 | l | 313 | II0 | C06-C08-C12 | 2.91 | 114.29 | 110.30 |
| 40 | g | 314 | KC2 | CHB-C1B-NB | -2.91 | 121.78 | 124.45 |
| 29 | i | 309 | CLA | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 29 | B | 808 | CLA | O2A-CGA-O1A | -2.91 | 116.25 | 123.59 |
| 29 | B | 804 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 29 | A | 811 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 29 | A | 839 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 29 | g | 307 | CLA | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 32 | F | 204 | WVN | C26-C29-C31 | -2.91 | 114.15 | 123.22 |
| 38 | J | 103 | II0 | C27-C25-C23 | -2.91 | 111.08 | 116.84 |
| 32 | R | 201 | WVN | C02-C05-C09 | -2.91 | 117.89 | 121.47 |
| 32 | l | 316 | WVN | C21-C15-C14 | -2.90 | 108.04 | 113.62 |
| 38 | j | 301 | II0 | C05-C03-C09 | 2.90 | 115.51 | 109.62 |
| 29 | d | 308 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 29 | A | 809 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 29 | m | 609 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 38 | j | 301 | II0 | C11-C13-C09 | -2.90 | 113.98 | 120.57 |
| 29 | m | 613 | CLA | CMB-C2B-C3B | 2.90 | 130.11 | 124.68 |
| 29 | B | 825 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 29 | B | 832 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | n | 609 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 32 | B | 846 | WVN | C33-C34-C37 | -2.90 | 114.49 | 118.94 |
| 29 | n | 606 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 38 | d | 301 | II0 | C27-C25-C23 | -2.90 | 111.10 | 116.84 |
| 29 | F | 201 | CLA | CMB-C2B-C3B | 2.90 | 130.10 | 124.68 |
| 32 | M | 101 | WVN | C21-C15-C14 | -2.90 | 108.05 | 113.62 |
| 38 | f | 618 | II0 | C41-C42-C40 | -2.90 | 117.54 | 123.47 |
| 40 | f | 611 | KC2 | CAA-C2A-C1A | -2.89 | 111.45 | 124.75 |
| 29 | A | 805 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 29 | e | 302 | CLA | CHB-C4A-NA | 2.89 | 128.51 | 124.51 |
| 29 | d | 313 | CLA | C1B-CHB-C4A | -2.89 | 124.39 | 130.12 |
| 29 | A | 834 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 29 | c | 311 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 29 | B | 836 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 38 | m | 615 | II0 | C19-C13-C11 | -2.89 | 109.01 | 114.36 |
| 29 | b | 311 | CLA | CMB-C2B-C1B | -2.89 | 124.03 | 128.46 |
| 29 | B | 810 | CLA | CMB-C2B-C3B | 2.89 | 130.08 | 124.68 |
| 29 | L | 207 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 29 | f | 610 | CLA | CMB-C2B-C3B | 2.89 | 130.08 | 124.68 |
| 38 | a | 314 | II0 | C12-C14-C10 | -2.88 | 114.02 | 120.57 |
| 29 | d | 310 | CLA | O2D-CGD-O1D | -2.88 | 118.20 | 123.84 |
| 29 | j | 308 | CLA | C1B-CHB-C4A | -2.88 | 124.41 | 130.12 |
| 29 | n | 605 | CLA | CAC-C3C-C4C | 2.88 | 128.55 | 124.81 |
| 38 | d | 319 | II0 | C03-C09-C13 | -2.88 | 118.57 | 122.63 |
| 38 | e | 316 | II0 | C06-C08-C12 | 2.88 | 114.25 | 110.30 |
| 38 | b | 315 | II0 | C11-C13-C09 | -2.88 | 114.04 | 120.57 |
| 29 | b | 305 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 29 | g | 302 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 38 | a | 315 | II0 | C06-C08-C12 | 2.88 | 114.24 | 110.30 |
| 29 | f | 609 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 40 | g | 315 | KC2 | CHD-C4C-C3C | -2.88 | 115.69 | 126.11 |
| 29 | B | 818 | CLA | O2D-CGD-O1D | -2.87 | 118.22 | 123.84 |
| 29 | j | 306 | CLA | O2D-CGD-O1D | -2.87 | 118.22 | 123.84 |
| 32 | B | 848 | WVN | C24-C22-C19 | -2.87 | 113.55 | 118.08 |
| 29 | h | 306 | CLA | CAA-C2A-C3A | -2.87 | 104.91 | 112.78 |
| 32 | M | 101 | WVN | C26-C29-C31 | -2.87 | 114.25 | 123.22 |
| 29 | B | 830 | CLA | O2D-CGD-O1D | -2.87 | 118.22 | 123.84 |
| 29 | a | 304 | CLA | O2D-CGD-O1D | -2.87 | 118.22 | 123.84 |
| 29 | B | 809 | CLA | CMB-C2B-C3B | 2.87 | 130.05 | 124.68 |
| 29 | a | 311 | CLA | CMB-C2B-C3B | 2.87 | 130.05 | 124.68 |
| 29 | j | 305 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 29 | L | 202 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | L | 201 | WVN | C08-C01-C02 | -2.87 | 105.20 | 109.55 |
| 29 | d | 303 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 29 | g | 306 | CLA | CHB-C4A-NA | 2.87 | 128.48 | 124.51 |
| 29 | L | 203 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 38 | n | 618 | II0 | C07-C11-C13 | 2.87 | 117.56 | 111.85 |
| 29 | b | 307 | CLA | CMB-C2B-C3B | 2.87 | 130.04 | 124.68 |
| 29 | k | 614 | CLA | O2D-CGD-O1D | -2.87 | 118.24 | 123.84 |
| 29 | j | 307 | CLA | O2D-CGD-O1D | -2.87 | 118.24 | 123.84 |
| 40 | d | 311 | KC2 | CHD-C4C-NC | 2.86 | 128.55 | 124.20 |
| 29 | g | 316 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 29 | B | 842 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 29 | J | 102 | CLA | CMB-C2B-C3B | 2.86 | 130.03 | 124.68 |
| 29 | k | 605 | CLA | CHB-C4A-NA | 2.86 | 128.47 | 124.51 |
| 38 | J | 103 | II0 | C20-C14-C12 | -2.86 | 109.05 | 114.36 |
| 29 | a | 308 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 38 | e | 314 | II0 | C06-C08-C12 | 2.86 | 114.22 | 110.30 |
| 40 | l | 311 | KC2 | O2D-CGD-O1D | -2.86 | 118.25 | 123.84 |
| 29 | n | 601 | CLA | CMB-C2B-C3B | 2.86 | 130.03 | 124.68 |
| 29 | m | 612 | CLA | O2D-CGD-O1D | -2.86 | 118.25 | 123.84 |
| 29 | A | 840 | CLA | CAA-C2A-C3A | -2.86 | 104.96 | 112.78 |
| 29 | F | 202 | CLA | CMB-C2B-C3B | 2.86 | 130.02 | 124.68 |
| 29 | B | 839 | CLA | O2D-CGD-O1D | -2.86 | 118.25 | 123.84 |
| 32 | A | 847 | WVN | C18-C06-C13 | -2.86 | 105.67 | 110.30 |
| 38 | e | 313 | II0 | C11-C13-C09 | -2.86 | 114.09 | 120.57 |
| 40 | f | 611 | KC2 | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | m | 607 | CLA | CMB-C2B-C1B | -2.85 | 124.08 | 128.46 |
| 29 | a | 302 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | e | 310 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | f | 613 | CLA | C1B-CHB-C4A | -2.85 | 124.47 | 130.12 |
| 29 | k | 604 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | O | 201 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | e | 311 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | J | 102 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 29 | j | 304 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | d | 318 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | B | 832 | CLA | CHB-C4A-NA | 2.85 | 128.45 | 124.51 |
| 29 | k | 606 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | B | 808 | CLA | CMB-C2B-C3B | 2.85 | 130.00 | 124.68 |
| 29 | A | 815 | CLA | CHB-C4A-NA | 2.84 | 128.45 | 124.51 |
| 29 | O | 202 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 29 | n | 603 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 32 | A | 844 | WVN | C10-C06-C13 | 2.84 | 114.86 | 110.48 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | g | 318 | II0 | C05-C03-C09 | 2.84 | 115.38 | 109.62 |
| 29 | b | 302 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 29 | f | 607 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 29 | k | 607 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 38 | f | 618 | II0 | C11-C13-C09 | -2.84 | 114.12 | 120.57 |
| 29 | f | 606 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 29 | c | 308 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 29 | B | 818 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 29 | m | 605 | CLA | CHB-C4A-NA | 2.84 | 128.44 | 124.51 |
| 38 | k | 619 | II0 | C29-C31-C33 | -2.84 | 114.36 | 123.22 |
| 29 | e | 303 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 29 | k | 602 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 29 | n | 607 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 29 | i | 306 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 32 | L | 205 | WVN | C21-C15-C14 | -2.84 | 108.17 | 113.62 |
| 29 | j | 311 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 29 | d | 318 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 29 | i | 304 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 29 | B | 832 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 29 | L | 207 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 29 | B | 805 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 29 | g | 302 | CLA | CHB-C4A-NA | 2.83 | 128.43 | 124.51 |
| 29 | b | 306 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 38 | n | 616 | II0 | C06-C04-C10 | 2.83 | 115.36 | 109.62 |
| 29 | h | 306 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 29 | i | 309 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 29 | A | 830 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 29 | h | 301 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 29 | A | 818 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 29 | m | 610 | CLA | CHB-C4A-NA | 2.83 | 128.43 | 124.51 |
| 29 | c | 306 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 29 | l | 301 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 29 | K | 101 | CLA | CHB-C4A-NA | 2.83 | 128.42 | 124.51 |
| 29 | R | 203 | CLA | C1-C2-C3 | -2.83 | 121.16 | 126.04 |
| 29 | A | 828 | CLA | O2D-CGD-O1D | -2.82 | 118.32 | 123.84 |
| 29 | c | 307 | CLA | O2D-CGD-O1D | -2.82 | 118.32 | 123.84 |
| 29 | g | 306 | CLA | O2D-CGD-O1D | -2.82 | 118.32 | 123.84 |
| 29 | B | 834 | CLA | CHB-C4A-NA | 2.82 | 128.42 | 124.51 |
| 40 | i | 310 | KC2 | CAA-C2A-C1A | -2.82 | 111.77 | 124.75 |
| 29 | a | 304 | CLA | CHB-C4A-NA | 2.82 | 128.41 | 124.51 |
| 29 | c | 311 | CLA | CHB-C4A-NA | 2.82 | 128.41 | 124.51 |
| 29 | n | 603 | CLA | CMB-C2B-C3B | 2.82 | 129.96 | 124.68 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | g | 303 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 29 | f | 601 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 40 | s | 404 | KC2 | CAA-CBA-CGA | -2.82 | 112.78 | 127.26 |
| 29 | f | 609 | CLA | CHB-C4A-NA | 2.82 | 128.41 | 124.51 |
| 32 | A | 844 | WVN | C28-C30-C33 | -2.82 | 114.43 | 123.22 |
| 29 | A | 833 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 40 | s | 401 | KC2 | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 29 | a | 306 | CLA | CMB-C2B-C3B | 2.82 | 129.95 | 124.68 |
| 29 | e | 301 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 31 | j | 318 | LHG | O8-C23-C24 | 2.82 | 120.74 | 111.91 |
| 29 | e | 304 | CLA | CMB-C2B-C3B | 2.82 | 129.94 | 124.68 |
| 32 | A | 847 | WVN | C10-C06-C13 | 2.81 | 114.81 | 110.48 |
| 29 | g | 305 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 29 | n | 610 | CLA | CHB-C4A-NA | 2.81 | 128.40 | 124.51 |
| 38 | c | 313 | II0 | C41-C42-C40 | -2.81 | 117.71 | 123.47 |
| 29 | a | 309 | CLA | CMB-C2B-C3B | 2.81 | 129.94 | 124.68 |
| 29 | i | 307 | CLA | CMB-C2B-C3B | 2.81 | 129.94 | 124.68 |
| 29 | f | 603 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 29 | n | 604 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 32 | L | 205 | WVN | C26-C29-C31 | -2.81 | 114.45 | 123.22 |
| 29 | c | 312 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 38 | m | 616 | II0 | C06-C04-C10 | 2.81 | 115.31 | 109.62 |
| 38 | d | 301 | II0 | C06-C04-C10 | 2.81 | 115.31 | 109.62 |
| 29 | m | 604 | CLA | O2D-CGD-O1D | -2.81 | 118.35 | 123.84 |
| 38 | l | 314 | II0 | C11-C13-C09 | -2.81 | 114.20 | 120.57 |
| 29 | l | 310 | CLA | O2D-CGD-O1D | -2.81 | 118.35 | 123.84 |
| 29 | m | 605 | CLA | O2D-CGD-O1D | -2.81 | 118.35 | 123.84 |
| 29 | h | 301 | CLA | CMB-C2B-C3B | 2.81 | 129.93 | 124.68 |
| 32 | A | 844 | WVN | C39-C40-C37 | -2.81 | 117.73 | 123.47 |
| 29 | j | 306 | CLA | C2A-C1A-CHA | 2.80 | 128.76 | 123.86 |
| 38 | k | 615 | II0 | C41-C42-C40 | -2.80 | 117.74 | 123.47 |
| 29 | d | 310 | CLA | CMB-C2B-C3B | 2.80 | 129.92 | 124.68 |
| 29 | k | 602 | CLA | O2D-CGD-O1D | -2.80 | 118.37 | 123.84 |
| 29 | A | 807 | CLA | CHB-C4A-NA | 2.80 | 128.38 | 124.51 |
| 32 | A | 847 | WVN | C39-C40-C37 | -2.80 | 117.74 | 123.47 |
| 29 | c | 309 | CLA | O2D-CGD-O1D | -2.80 | 118.37 | 123.84 |
| 29 | h | 304 | CLA | O2D-CGD-O1D | -2.80 | 118.37 | 123.84 |
| 38 | f | 615 | II0 | C19-C13-C11 | -2.80 | 109.17 | 114.36 |
| 38 | e | 312 | II0 | C05-C03-C09 | 2.80 | 115.28 | 109.62 |
| 29 | k | 609 | CLA | O2D-CGD-O1D | -2.79 | 118.37 | 123.84 |
| 29 | m | 606 | CLA | CHB-C4A-NA | 2.79 | 128.38 | 124.51 |
| 38 | g | 317 | II0 | C41-C42-C40 | -2.79 | 117.75 | 123.47 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | a | 312 | CLA | C1B-CHB-C4A | -2.79 | 124.58 | 130.12 |
| 29 | c | 301 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 29 | a | 305 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 29 | b | 308 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 29 | m | 608 | CLA | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 29 | L | 203 | CLA | CHD-C1D-ND | -2.79 | 121.89 | 124.45 |
| 29 | B | 811 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 29 | A | 812 | CLA | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 29 | n | 605 | CLA | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 29 | f | 601 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 29 | d | 318 | CLA | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 29 | a | 303 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 38 | i | 313 | II0 | C17-C04-C10 | -2.79 | 106.03 | 110.47 |
| 29 | s | 403 | CLA | O2D-CGD-CBD | 2.79 | 116.22 | 111.27 |
| 29 | B | 813 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 32 | l | 302 | WVN | C06-C13-C20 | -2.79 | 107.89 | 115.78 |
| 29 | A | 827 | CLA | CHD-C1D-ND | -2.79 | 121.89 | 124.45 |
| 29 | f | 607 | CLA | CMB-C2B-C1B | -2.79 | 124.18 | 128.46 |
| 32 | K | 103 | WVN | C21-C15-C14 | -2.79 | 108.26 | 113.62 |
| 29 | b | 302 | CLA | CMB-C2B-C3B | 2.79 | 129.89 | 124.68 |
| 40 | c | 310 | KC2 | CMC-C2C-C1C | 2.79 | 129.28 | 125.04 |
| 29 | h | 304 | CLA | C1B-CHB-C4A | -2.79 | 124.60 | 130.12 |
| 29 | h | 303 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 32 | K | 103 | WVN | C26-C29-C31 | -2.79 | 114.52 | 123.22 |
| 29 | g | 312 | CLA | CMB-C2B-C3B | 2.79 | 129.89 | 124.68 |
| 29 | l | 309 | CLA | CHB-C4A-NA | 2.79 | 128.36 | 124.51 |
| 36 | B | 844 | DGD | CDB-CCB-CBB | -2.79 | 100.28 | 114.42 |
| 29 | A | 820 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 38 | g | 319 | II0 | C29-C31-C33 | -2.79 | 114.53 | 123.22 |
| 29 | i | 303 | CLA | CMB-C2B-C3B | 2.79 | 129.89 | 124.68 |
| 29 | A | 811 | CLA | CMB-C2B-C3B | 2.78 | 129.89 | 124.68 |
| 29 | l | 305 | CLA | O2D-CGD-O1D | -2.78 | 118.39 | 123.84 |
| 29 | b | 306 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 29 | i | 306 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 29 | j | 310 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 38 | l | 315 | II0 | C15-C03-C09 | -2.78 | 106.05 | 110.47 |
| 29 | A | 816 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 29 | Q | 302 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 29 | k | 603 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 29 | f | 604 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 29 | B | 806 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 29 | c | 303 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | f | 604 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 29 | B | 840 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | m | 602 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | h | 303 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | f | 602 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | m | 608 | CLA | CMB-C2B-C3B | 2.78 | 129.87 | 124.68 |
| 29 | h | 303 | CLA | CMB-C2B-C3B | 2.78 | 129.87 | 124.68 |
| 29 | l | 303 | CLA | CMB-C2B-C3B | 2.78 | 129.87 | 124.68 |
| 29 | J | 102 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | a | 305 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | a | 312 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 29 | e | 305 | CLA | CMB-C2B-C3B | 2.78 | 129.87 | 124.68 |
| 29 | B | 818 | CLA | C1B-CHB-C4A | -2.77 | 124.62 | 130.12 |
| 29 | l | 312 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 29 | F | 203 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 29 | i | 302 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 29 | m | 601 | CLA | CMB-C2B-C3B | 2.77 | 129.87 | 124.68 |
| 29 | g | 310 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 40 | g | 313 | KC2 | CAA-CBA-CGA | -2.77 | 113.01 | 127.26 |
| 29 | B | 826 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 29 | e | 307 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 29 | A | 822 | CLA | CMB-C2B-C3B | 2.77 | 129.87 | 124.68 |
| 29 | A | 838 | CLA | CHB-C4A-NA | 2.77 | 128.34 | 124.51 |
| 29 | g | 312 | CLA | CHB-C4A-NA | 2.77 | 128.34 | 124.51 |
| 29 | g | 308 | CLA | CMB-C2B-C3B | 2.77 | 129.86 | 124.68 |
| 38 | l | 314 | II0 | C32-C30-C26 | -2.77 | 118.53 | 126.58 |
| 37 | c | 317 | LMG | O1-C1-C2 | -2.77 | 103.98 | 108.30 |
| 38 | f | 618 | II0 | C30-C32-C34 | -2.77 | 114.57 | 123.22 |
| 29 | b | 311 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 29 | d | 310 | CLA | C1B-CHB-C4A | -2.77 | 124.63 | 130.12 |
| 29 | n | 606 | CLA | CMB-C2B-C3B | 2.77 | 129.86 | 124.68 |
| 29 | i | 307 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 29 | a | 310 | CLA | CHB-C4A-NA | 2.77 | 128.34 | 124.51 |
| 29 | B | 828 | CLA | O2D-CGD-O1D | -2.77 | 118.43 | 123.84 |
| 32 | J | 101 | WVN | C26-C29-C31 | -2.77 | 114.58 | 123.22 |
| 40 | j | 312 | KC2 | O2D-CGD-O1D | -2.77 | 118.43 | 123.84 |
| 29 | F | 203 | CLA | CMB-C2B-C3B | 2.77 | 129.85 | 124.68 |
| 29 | B | 809 | CLA | O2D-CGD-O1D | -2.77 | 118.43 | 123.84 |
| 40 | s | 401 | KC2 | CAA-CBA-CGA | -2.77 | 113.05 | 127.26 |
| 31 | l | 318 | LHG | O8-C23-C24 | 2.77 | 120.58 | 111.91 |
| 29 | j | 313 | CLA | CMB-C2B-C3B | 2.76 | 129.85 | 124.68 |
| 38 | i | 316 | II0 | C19-C13-C11 | -2.76 | 109.23 | 114.36 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | K | 102 | CLA | CMB-C2B-C1B | -2.76 | 124.22 | 128.46 |
| 38 | e | 313 | II0 | C29-C31-C33 | -2.76 | 114.60 | 123.22 |
| 29 | l | 307 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 29 | n | 605 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 29 | h | 307 | CLA | CHB-C4A-NA | 2.76 | 128.33 | 124.51 |
| 29 | i | 312 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 29 | A | 832 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 29 | O | 206 | CLA | CHB-C4A-NA | 2.76 | 128.33 | 124.51 |
| 32 | A | 845 | WVN | C21-C15-C14 | -2.76 | 108.32 | 113.62 |
| 29 | s | 403 | CLA | CHB-C4A-NA | 2.76 | 128.32 | 124.51 |
| 38 | m | 615 | II0 | C07-C11-C13 | -2.76 | 106.36 | 111.85 |
| 29 | B | 820 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 29 | d | 305 | CLA | O2D-CGD-O1D | -2.76 | 118.45 | 123.84 |
| 29 | K | 101 | CLA | CAA-C2A-C3A | -2.75 | 105.23 | 112.78 |
| 29 | A | 836 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 29 | B | 816 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 29 | s | 402 | CLA | CAA-CBA-CGA | -2.75 | 105.20 | 113.25 |
| 29 | R | 203 | CLA | O2A-CGA-O1A | -2.75 | 116.64 | 123.59 |
| 29 | a | 312 | CLA | O2D-CGD-O1D | -2.75 | 118.45 | 123.84 |
| 38 | d | 315 | II0 | C11-C13-C09 | -2.75 | 114.32 | 120.57 |
| 29 | a | 311 | CLA | O2D-CGD-O1D | -2.75 | 118.46 | 123.84 |
| 40 | e | 309 | KC2 | CHD-C4C-NC | 2.75 | 128.38 | 124.20 |
| 29 | O | 202 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 29 | i | 309 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 38 | J | 103 | II0 | C12-C14-C10 | -2.75 | 114.33 | 120.57 |
| 29 | l | 306 | CLA | CHB-C4A-NA | 2.75 | 128.31 | 124.51 |
| 29 | A | 830 | CLA | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 29 | l | 301 | CLA | CHB-C4A-NA | 2.75 | 128.31 | 124.51 |
| 29 | h | 302 | CLA | O2D-CGD-O1D | -2.75 | 118.47 | 123.84 |
| 29 | B | 804 | CLA | C1B-CHB-C4A | -2.75 | 124.68 | 130.12 |
| 29 | B | 818 | CLA | CHB-C4A-NA | 2.75 | 128.31 | 124.51 |
| 38 | b | 301 | II0 | C41-C42-C40 | -2.75 | 117.85 | 123.47 |
| 29 | i | 302 | CLA | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 38 | i | 319 | II0 | C29-C31-C33 | -2.75 | 114.65 | 123.22 |
| 29 | f | 601 | CLA | CHB-C4A-NA | 2.75 | 128.31 | 124.51 |
| 38 | i | 316 | II0 | C12-C14-C10 | -2.74 | 114.34 | 120.57 |
| 29 | O | 206 | CLA | CMB-C2B-C1B | -2.74 | 124.25 | 128.46 |
| 29 | A | 804 | CLA | CHB-C4A-NA | 2.74 | 128.31 | 124.51 |
| 32 | l | 316 | WVN | C10-C06-C13 | 2.74 | 114.70 | 110.48 |
| 29 | B | 821 | CLA | CMB-C2B-C3B | 2.74 | 129.81 | 124.68 |
| 29 | b | 302 | CLA | CHB-C4A-NA | 2.74 | 128.30 | 124.51 |
| 29 | e | 310 | CLA | CHB-C4A-NA | 2.74 | 128.30 | 124.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | e | 305 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 40 | i | 318 | KC2 | CHD-C4C-NC | 2.74 | 128.36 | 124.20 |
| 29 | f | 609 | CLA | C1-C2-C3 | -2.74 | 121.30 | 126.04 |
| 38 | a | 314 | II0 | C15-C03-C09 | -2.74 | 106.11 | 110.47 |
| 29 | g | 316 | CLA | CMB-C2B-C3B | 2.74 | 129.81 | 124.68 |
| 29 | j | 305 | CLA | CHB-C4A-NA | 2.74 | 128.30 | 124.51 |
| 29 | k | 604 | CLA | CHB-C4A-NA | 2.74 | 128.30 | 124.51 |
| 31 | g | 322 | LHG | O8-C23-C24 | 2.74 | 120.51 | 111.91 |
| 29 | l | 303 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 29 | g | 307 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 29 | m | 610 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 29 | d | 304 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 29 | g | 312 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 29 | B | 841 | CLA | O2D-CGD-O1D | -2.74 | 118.49 | 123.84 |
| 38 | h | 310 | II0 | C41-C42-C40 | -2.74 | 117.87 | 123.47 |
| 29 | O | 206 | CLA | O2D-CGD-O1D | -2.74 | 118.49 | 123.84 |
| 29 | i | 306 | CLA | O2D-CGD-O1D | -2.73 | 118.49 | 123.84 |
| 29 | B | 816 | CLA | CBC-CAC-C3C | 2.73 | 119.97 | 112.43 |
| 29 | k | 601 | CLA | O2D-CGD-CBD | 2.73 | 116.13 | 111.27 |
| 29 | m | 613 | CLA | C1B-CHB-C4A | -2.73 | 124.70 | 130.12 |
| 29 | d | 313 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 29 | h | 305 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 29 | A | 823 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 38 | O | 203 | II0 | C05-C07-C11 | 2.73 | 114.04 | 110.30 |
| 29 | i | 308 | CLA | O2D-CGD-O1D | -2.73 | 118.50 | 123.84 |
| 29 | m | 602 | CLA | CAC-C3C-C2C | 2.73 | 132.20 | 127.53 |
| 29 | B | 814 | CLA | O2D-CGD-O1D | -2.73 | 118.50 | 123.84 |
| 29 | d | 307 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 29 | l | 303 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 29 | b | 309 | CLA | O2D-CGD-O1D | -2.73 | 118.50 | 123.84 |
| 29 | l | 301 | CLA | CMB-C2B-C3B | 2.73 | 129.78 | 124.68 |
| 29 | Q | 302 | CLA | CHB-C4A-NA | 2.73 | 128.28 | 124.51 |
| 29 | m | 605 | CLA | CAA-C2A-C3A | -2.73 | 107.44 | 114.26 |
| 29 | d | 310 | CLA | CAA-C2A-C3A | -2.73 | 109.73 | 116.10 |
| 32 | A | 847 | WVN | C20-C13-C15 | -2.73 | 114.86 | 121.46 |
| 29 | d | 303 | CLA | CHB-C4A-NA | 2.73 | 128.28 | 124.51 |
| 40 | j | 312 | KC2 | CHD-C4C-NC | 2.73 | 128.34 | 124.20 |
| 29 | A | 851 | CLA | C1B-CHB-C4A | -2.73 | 124.72 | 130.12 |
| 38 | d | 315 | II0 | C38-C36-C34 | -2.73 | 113.78 | 118.08 |
| 32 | l | 316 | WVN | C33-C34-C37 | -2.73 | 114.76 | 118.94 |
| 38 | n | 618 | II0 | C06-C08-C12 | 2.72 | 114.03 | 110.30 |
| 38 | b | 301 | II0 | C15-C03-C09 | -2.72 | 106.14 | 110.47 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | B | 808 | CLA | O2D-CGD-CBD | 2.72 | 116.11 | 111.27 |
| 29 | B | 820 | CLA | O2D-CGD-CBD | 2.72 | 116.11 | 111.27 |
| 29 | g | 303 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 29 | j | 302 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 29 | k | 610 | CLA | O2D-CGD-O1D | -2.72 | 118.52 | 123.84 |
| 38 | J | 103 | II0 | C11-C13-C09 | -2.72 | 114.39 | 120.57 |
| 29 | n | 606 | CLA | CHB-C4A-NA | 2.72 | 128.28 | 124.51 |
| 32 | L | 206 | WVN | C01-C02-C05 | 2.72 | 116.29 | 111.42 |
| 32 | A | 844 | WVN | C14-C15-C13 | -2.72 | 118.78 | 122.73 |
| 29 | m | 609 | CLA | CHB-C4A-NA | 2.72 | 128.27 | 124.51 |
| 38 | a | 317 | II0 | C12-C14-C10 | -2.72 | 114.40 | 120.57 |
| 38 | f | 614 | II0 | C41-C42-C40 | -2.72 | 117.91 | 123.47 |
| 29 | a | 306 | CLA | O2D-CGD-O1D | -2.72 | 118.52 | 123.84 |
| 40 | f | 611 | KC2 | CHD-C4C-NC | 2.72 | 128.33 | 124.20 |
| 29 | j | 307 | CLA | CHB-C4A-NA | 2.72 | 128.27 | 124.51 |
| 39 | j | 317 | IHT | C05-C08-C12 | -2.72 | 106.58 | 110.30 |
| 29 | j | 311 | CLA | CMB-C2B-C3B | 2.72 | 129.76 | 124.68 |
| 29 | A | 827 | CLA | O2D-CGD-O1D | -2.72 | 118.53 | 123.84 |
| 29 | k | 607 | CLA | C1B-CHB-C4A | -2.71 | 124.74 | 130.12 |
| 29 | B | 835 | CLA | C1B-CHB-C4A | -2.71 | 124.74 | 130.12 |
| 29 | k | 603 | CLA | C1B-CHB-C4A | -2.71 | 124.74 | 130.12 |
| 29 | F | 203 | CLA | O2D-CGD-O1D | -2.71 | 118.53 | 123.84 |
| 29 | f | 612 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |
| 29 | j | 314 | CLA | O2D-CGD-O1D | -2.71 | 118.54 | 123.84 |
| 38 | k | 615 | II0 | C11-C13-C09 | -2.71 | 114.42 | 120.57 |
| 31 | f | 620 | LHG | O8-C23-C24 | 2.71 | 120.41 | 111.91 |
| 40 | i | 318 | KC2 | CHB-C1B-NB | -2.71 | 121.96 | 124.45 |
| 32 | e | 315 | WVN | C18-C06-C13 | 2.71 | 114.69 | 110.30 |
| 29 | B | 801 | CLA | O2D-CGD-O1D | -2.71 | 118.54 | 123.84 |
| 29 | c | 312 | CLA | C1B-CHB-C4A | -2.71 | 124.76 | 130.12 |
| 31 | A | 842 | LHG | C11-C10-C9 | -2.71 | 100.69 | 114.42 |
| 38 | i | 313 | II0 | C20-C14-C12 | -2.71 | 109.34 | 114.36 |
| 29 | A | 809 | CLA | C1B-CHB-C4A | -2.71 | 124.76 | 130.12 |
| 29 | m | 606 | CLA | O2D-CGD-O1D | -2.71 | 118.55 | 123.84 |
| 38 | f | 616 | II0 | C41-C42-C40 | -2.71 | 117.93 | 123.47 |
| 29 | e | 311 | CLA | CHB-C4A-NA | 2.71 | 128.25 | 124.51 |
| 29 | n | 602 | CLA | CHB-C4A-NA | 2.71 | 128.25 | 124.51 |
| 38 | l | 314 | II0 | C42-C41-C39 | 2.70 | 129.01 | 123.47 |
| 29 | c | 304 | CLA | CHB-C4A-NA | 2.70 | 128.25 | 124.51 |
| 29 | B | 816 | CLA | C1B-CHB-C4A | -2.70 | 124.76 | 130.12 |
| 29 | h | 312 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 29 | g | 309 | CLA | C1B-CHB-C4A | -2.70 | 124.77 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | k | 615 | II0 | C17-C04-C10 | -2.70 | 106.17 | 110.47 |
| 29 | A | 802 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 29 | B | 813 | CLA | CHB-C4A-NA | 2.70 | 128.25 | 124.51 |
| 32 | B | 846 | WVN | C40-C39-C36 | -2.70 | 117.94 | 123.47 |
| 38 | h | 311 | II0 | C41-C42-C40 | -2.70 | 117.94 | 123.47 |
| 29 | l | 310 | CLA | CMB-C2B-C3B | 2.70 | 129.72 | 124.68 |
| 29 | b | 306 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 29 | e | 305 | CLA | CHB-C4A-NA | 2.70 | 128.24 | 124.51 |
| 29 | m | 603 | CLA | CHB-C4A-NA | 2.70 | 128.24 | 124.51 |
| 29 | f | 604 | CLA | C1B-CHB-C4A | -2.70 | 124.78 | 130.12 |
| 38 | a | 315 | II0 | C16-C03-C09 | -2.69 | 106.19 | 110.47 |
| 29 | B | 804 | CLA | CAC-C3C-C2C | -2.69 | 122.92 | 127.53 |
| 38 | c | 313 | II0 | C05-C03-C09 | 2.69 | 115.08 | 109.62 |
| 29 | f | 605 | CLA | O2D-CGD-O1D | -2.69 | 118.57 | 123.84 |
| 38 | e | 314 | II0 | C41-C42-C40 | -2.69 | 117.96 | 123.47 |
| 29 | B | 814 | CLA | CHB-C4A-NA | 2.69 | 128.23 | 124.51 |
| 40 | j | 312 | KC2 | CMB-C2B-C1B | 2.69 | 129.46 | 124.71 |
| 29 | m | 610 | CLA | CMB-C2B-C3B | 2.69 | 129.71 | 124.68 |
| 29 | A | 851 | CLA | CHB-C4A-NA | 2.69 | 128.23 | 124.51 |
| 29 | a | 309 | CLA | O2D-CGD-O1D | -2.69 | 118.58 | 123.84 |
| 32 | i | 315 | WVN | C39-C40-C37 | -2.69 | 117.96 | 123.47 |
| 29 | A | 804 | CLA | O2D-CGD-O1D | -2.69 | 118.58 | 123.84 |
| 32 | M | 101 | WVN | C39-C40-C37 | -2.69 | 117.97 | 123.47 |
| 29 | j | 311 | CLA | CHB-C4A-NA | 2.69 | 128.23 | 124.51 |
| 29 | b | 309 | CLA | CHB-C4A-NA | 2.69 | 128.22 | 124.51 |
| 38 | i | 319 | II0 | C05-C03-C09 | 2.68 | 115.06 | 109.62 |
| 29 | B | 822 | CLA | C5-C3-C2 | 2.68 | 126.55 | 121.12 |
| 29 | g | 307 | CLA | CAA-C2A-C3A | -2.68 | 105.43 | 112.78 |
| 29 | k | 606 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 29 | d | 302 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 40 | i | 310 | KC2 | CHD-C4C-C3C | -2.68 | 116.38 | 126.11 |
| 37 | O | 205 | LMG | O6-C1-O1 | -2.68 | 103.62 | 109.97 |
| 38 | k | 620 | II0 | C41-C42-C40 | -2.68 | 117.98 | 123.47 |
| 29 | j | 304 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 29 | B | 827 | CLA | C1B-CHB-C4A | -2.68 | 124.81 | 130.12 |
| 29 | B | 829 | CLA | C1B-CHB-C4A | -2.68 | 124.81 | 130.12 |
| 29 | e | 308 | CLA | O2D-CGD-O1D | -2.68 | 118.60 | 123.84 |
| 40 | k | 611 | KC2 | CHD-C4C-NC | 2.68 | 128.27 | 124.20 |
| 29 | m | 612 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 29 | g | 323 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 38 | k | 619 | II0 | C06-C04-C10 | 2.68 | 115.05 | 109.62 |
| 29 | j | 302 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | g | 319 | II0 | C05-C03-C09 | 2.68 | 115.05 | 109.62 |
| 40 | i | 318 | KC2 | CMB-C2B-C1B | 2.68 | 129.43 | 124.71 |
| 29 | d | 305 | CLA | CHB-C4A-NA | 2.68 | 128.21 | 124.51 |
| 29 | e | 301 | CLA | CMB-C2B-C3B | 2.68 | 129.69 | 124.68 |
| 29 | A | 818 | CLA | CHB-C4A-NA | 2.67 | 128.21 | 124.51 |
| 38 | l | 313 | II0 | C12-C14-C10 | -2.67 | 114.50 | 120.57 |
| 29 | l | 304 | CLA | CHB-C4A-NA | 2.67 | 128.21 | 124.51 |
| 29 | B | 820 | CLA | C1B-CHB-C4A | -2.67 | 124.83 | 130.12 |
| 37 | F | 206 | LMG | O6-C1-O1 | -2.67 | 103.65 | 109.97 |
| 29 | j | 302 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 38 | n | 616 | II0 | C19-C13-C11 | -2.67 | 109.41 | 114.36 |
| 29 | m | 608 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 40 | n | 611 | KC2 | CHD-C4C-C3C | -2.67 | 116.43 | 126.11 |
| 40 | s | 404 | KC2 | CHD-C4C-C3C | -2.67 | 116.43 | 126.11 |
| 29 | d | 306 | CLA | O2D-CGD-CBD | 2.67 | 116.01 | 111.27 |
| 38 | b | 314 | II0 | C06-C04-C10 | 2.67 | 115.03 | 109.62 |
| 29 | h | 302 | CLA | CHB-C4A-NA | 2.67 | 128.20 | 124.51 |
| 31 | s | 408 | LHG | O8-C23-C24 | 2.67 | 120.28 | 111.91 |
| 29 | B | 834 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 29 | B | 837 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 29 | A | 824 | CLA | CHB-C4A-NA | 2.67 | 128.20 | 124.51 |
| 39 | c | 315 | IHT | C05-C08-C12 | 2.67 | 113.95 | 110.30 |
| 29 | A | 820 | CLA | CHB-C4A-NA | 2.67 | 128.20 | 124.51 |
| 29 | m | 608 | CLA | C1B-CHB-C4A | -2.66 | 124.84 | 130.12 |
| 29 | A | 805 | CLA | CHB-C4A-NA | 2.66 | 128.20 | 124.51 |
| 29 | n | 603 | CLA | CHB-C4A-NA | 2.66 | 128.20 | 124.51 |
| 38 | n | 618 | II0 | C05-C03-C09 | 2.66 | 115.02 | 109.62 |
| 29 | A | 812 | CLA | O2D-CGD-O1D | -2.66 | 118.63 | 123.84 |
| 29 | A | 827 | CLA | CHB-C4A-NA | 2.66 | 128.20 | 124.51 |
| 40 | c | 310 | KC2 | CHD-C4C-C3C | -2.66 | 116.45 | 126.11 |
| 31 | c | 320 | LHG | O8-C23-C24 | 2.66 | 120.26 | 111.91 |
| 29 | g | 304 | CLA | CMB-C2B-C3B | 2.66 | 129.66 | 124.68 |
| 29 | k | 609 | CLA | CMB-C2B-C3B | 2.66 | 129.65 | 124.68 |
| 40 | l | 311 | KC2 | CHD-C4C-C3C | -2.66 | 116.47 | 126.11 |
| 29 | R | 203 | CLA | CHB-C4A-NA | 2.66 | 128.19 | 124.51 |
| 29 | e | 306 | CLA | C1B-CHB-C4A | -2.66 | 124.85 | 130.12 |
| 38 | d | 301 | II0 | C41-C42-C40 | -2.66 | 118.03 | 123.47 |
| 29 | K | 102 | CLA | CMB-C2B-C3B | 2.66 | 129.65 | 124.68 |
| 31 | c | 320 | LHG | C11-C10-C9 | -2.66 | 100.94 | 114.42 |
| 29 | B | 831 | CLA | O2D-CGD-O1D | -2.66 | 118.65 | 123.84 |
| 29 | a | 310 | CLA | O2D-CGD-O1D | -2.66 | 118.65 | 123.84 |
| 29 | h | 307 | CLA | O2D-CGD-O1D | -2.65 | 118.65 | 123.84 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | m | 615 | II0 | C17-C04-C10 | -2.65 | 106.25 | 110.47 |
| 29 | c | 308 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 29 | a | 307 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 29 | f | 603 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 29 | A | 816 | CLA | CAA-C2A-C3A | -2.65 | 105.51 | 112.78 |
| 29 | f | 606 | CLA | C1B-CHB-C4A | -2.65 | 124.86 | 130.12 |
| 29 | b | 308 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 29 | A | 832 | CLA | C1B-CHB-C4A | -2.65 | 124.86 | 130.12 |
| 35 | A | 853 | SQD | O6-C1-C2 | 2.65 | 112.44 | 108.30 |
| 29 | B | 815 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 29 | k | 602 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 29 | L | 207 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 32 | A | 847 | WVN | C01-C02-C05 | 2.65 | 116.16 | 111.42 |
| 39 | c | 315 | IHT | C41-C40-C37 | 2.65 | 128.90 | 123.47 |
| 29 | A | 808 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 29 | h | 305 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 38 | d | 315 | II0 | C05-C03-C09 | 2.65 | 114.98 | 109.62 |
| 31 | e | 317 | LHG | O8-C23-C24 | 2.65 | 120.21 | 111.91 |
| 29 | f | 606 | CLA | CHB-C4A-NA | 2.65 | 128.17 | 124.51 |
| 29 | B | 808 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 29 | g | 308 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 29 | m | 613 | CLA | O2D-CGD-O1D | -2.64 | 118.67 | 123.84 |
| 29 | B | 817 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 29 | l | 310 | CLA | CHB-C4A-NA | 2.64 | 128.17 | 124.51 |
| 29 | l | 312 | CLA | O2D-CGD-O1D | -2.64 | 118.67 | 123.84 |
| 29 | g | 311 | CLA | C1B-CHB-C4A | -2.64 | 124.89 | 130.12 |
| 38 | b | 314 | II0 | C41-C42-C40 | -2.64 | 118.06 | 123.47 |
| 29 | A | 835 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 40 | d | 311 | KC2 | CHD-C4C-C3C | -2.64 | 116.54 | 126.11 |
| 29 | B | 807 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 29 | g | 323 | CLA | CMB-C2B-C3B | 2.64 | 129.62 | 124.68 |
| 29 | B | 814 | CLA | C1B-CHB-C4A | -2.64 | 124.89 | 130.12 |
| 31 | A | 842 | LHG | O8-C23-C24 | 2.64 | 120.19 | 111.91 |
| 29 | A | 823 | CLA | CHD-C1D-ND | -2.64 | 122.03 | 124.45 |
| 29 | h | 312 | CLA | C1B-CHB-C4A | -2.64 | 124.89 | 130.12 |
| 29 | b | 304 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 32 | s | 405 | WVN | C39-C40-C37 | -2.64 | 118.07 | 123.47 |
| 29 | j | 309 | CLA | CHB-C4A-NA | 2.63 | 128.16 | 124.51 |
| 29 | b | 310 | CLA | CMB-C2B-C3B | 2.63 | 129.61 | 124.68 |
| 29 | m | 607 | CLA | O2D-CGD-O1D | -2.63 | 118.69 | 123.84 |
| 40 | d | 311 | KC2 | CMC-C2C-C1C | 2.63 | 129.05 | 125.04 |
| 29 | B | 841 | CLA | CHD-C1D-ND | -2.63 | 122.03 | 124.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | n | 615 | II0 | C29-C31-C33 | -2.63 | 115.00 | 123.22 |
| 40 | l | 311 | KC2 | CHD-C4C-NC | 2.63 | 128.19 | 124.20 |
| 29 | f | 608 | CLA | C1B-CHB-C4A | -2.63 | 124.91 | 130.12 |
| 38 | l | 315 | II0 | C41-C42-C40 | -2.63 | 118.09 | 123.47 |
| 29 | B | 839 | CLA | CMB-C2B-C3B | 2.63 | 129.60 | 124.68 |
| 29 | R | 203 | CLA | O2D-CGD-O1D | -2.63 | 118.70 | 123.84 |
| 29 | m | 604 | CLA | CHB-C4A-NA | 2.63 | 128.15 | 124.51 |
| 29 | k | 601 | CLA | CHB-C4A-NA | 2.63 | 128.15 | 124.51 |
| 29 | A | 804 | CLA | CAA-CBA-CGA | -2.63 | 105.57 | 113.25 |
| 29 | B | 841 | CLA | CMB-C2B-C3B | 2.63 | 129.59 | 124.68 |
| 32 | A | 845 | WVN | C39-C40-C37 | -2.63 | 118.09 | 123.47 |
| 38 | h | 311 | II0 | C12-C14-C10 | -2.63 | 114.61 | 120.57 |
| 29 | m | 602 | CLA | CMC-C2C-C1C | -2.63 | 121.04 | 125.04 |
| 29 | A | 835 | CLA | CMB-C2B-C3B | 2.63 | 129.59 | 124.68 |
| 29 | a | 311 | CLA | CHB-C4A-NA | 2.63 | 128.14 | 124.51 |
| 29 | j | 313 | CLA | CHB-C4A-NA | 2.63 | 128.14 | 124.51 |
| 38 | k | 616 | II0 | C29-C31-C33 | -2.62 | 115.03 | 123.22 |
| 29 | B | 811 | CLA | CHB-C4A-NA | 2.62 | 128.14 | 124.51 |
| 40 | i | 318 | KC2 | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 38 | c | 313 | II0 | C29-C31-C33 | -2.62 | 115.03 | 123.22 |
| 29 | i | 311 | CLA | CHB-C4A-NA | 2.62 | 128.14 | 124.51 |
| 38 | k | 620 | II0 | C11-C13-C09 | -2.62 | 114.62 | 120.57 |
| 40 | c | 310 | KC2 | C2A-C1A-CHA | -2.62 | 118.77 | 127.44 |
| 31 | m | 619 | LHG | O8-C23-C24 | 2.62 | 120.13 | 111.91 |
| 29 | n | 608 | CLA | CMB-C2B-C3B | 2.62 | 129.58 | 124.68 |
| 29 | B | 831 | CLA | CHB-C4A-NA | 2.62 | 128.13 | 124.51 |
| 38 | m | 618 | II0 | C29-C31-C33 | -2.62 | 115.04 | 123.22 |
| 29 | b | 305 | CLA | CHB-C4A-NA | 2.62 | 128.13 | 124.51 |
| 29 | K | 102 | CLA | CHB-C4A-NA | 2.62 | 128.13 | 124.51 |
| 29 | h | 306 | CLA | CHB-C4A-NA | 2.62 | 128.13 | 124.51 |
| 29 | e | 301 | CLA | CHB-C4A-NA | 2.62 | 128.13 | 124.51 |
| 29 | i | 312 | CLA | CBC-CAC-C3C | 2.62 | 119.64 | 112.43 |
| 29 | i | 307 | CLA | C1B-CHB-C4A | -2.62 | 124.94 | 130.12 |
| 29 | A | 833 | CLA | CHB-C4A-NA | 2.61 | 128.13 | 124.51 |
| 29 | m | 607 | CLA | CMB-C2B-C3B | 2.61 | 129.57 | 124.68 |
| 29 | B | 831 | CLA | C1B-CHB-C4A | -2.61 | 124.94 | 130.12 |
| 29 | h | 301 | CLA | CHB-C4A-NA | 2.61 | 128.13 | 124.51 |
| 40 | i | 318 | KC2 | CHD-C4C-C3C | -2.61 | 116.64 | 126.11 |
| 40 | g | 313 | KC2 | CHD-C4C-NC | 2.61 | 128.17 | 124.20 |
| 29 | B | 839 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 29 | A | 808 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 38 | i | 316 | II0 | C05-C03-C09 | 2.61 | 114.91 | 109.62 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 803 | CLA | C1B-CHB-C4A | -2.61 | 124.95 | 130.12 |
| 40 | e | 309 | KC2 | CMB-C2B-C1B | 2.61 | 129.31 | 124.71 |
| 38 | f | 618 | II0 | C29-C31-C33 | -2.61 | 115.08 | 123.22 |
| 39 | c | 319 | IHT | C41-C40-C37 | 2.61 | 128.81 | 123.47 |
| 40 | g | 314 | KC2 | CBC-CAC-C3C | -2.61 | 114.66 | 127.62 |
| 29 | i | 303 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 29 | A | 833 | CLA | C1B-CHB-C4A | -2.60 | 124.96 | 130.12 |
| 40 | j | 312 | KC2 | CAA-C2A-C1A | -2.60 | 112.77 | 124.75 |
| 29 | A | 822 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 29 | c | 311 | CLA | C1B-CHB-C4A | -2.60 | 124.96 | 130.12 |
| 29 | a | 306 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 29 | B | 801 | CLA | C1B-CHB-C4A | -2.60 | 124.97 | 130.12 |
| 29 | L | 204 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 29 | B | 821 | CLA | O2D-CGD-O1D | -2.60 | 118.75 | 123.84 |
| 29 | B | 803 | CLA | CMB-C2B-C1B | -2.60 | 124.47 | 128.46 |
| 29 | f | 605 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 29 | B | 830 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 29 | l | 308 | CLA | O2D-CGD-O1D | -2.60 | 118.76 | 123.84 |
| 29 | c | 303 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 29 | k | 603 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 29 | i | 305 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 29 | A | 834 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 29 | b | 313 | CLA | O2D-CGD-O1D | -2.59 | 118.77 | 123.84 |
| 29 | B | 806 | CLA | CHB-C4A-NA | 2.59 | 128.10 | 124.51 |
| 29 | j | 303 | CLA | CHB-C4A-NA | 2.59 | 128.10 | 124.51 |
| 29 | A | 831 | CLA | CHB-C4A-NA | 2.59 | 128.10 | 124.51 |
| 31 | f | 619 | LHG | O8-C23-C24 | 2.59 | 120.05 | 111.91 |
| 40 | m | 611 | KC2 | CHD-C4C-C3C | -2.59 | 116.72 | 126.11 |
| 38 | m | 618 | II0 | C11-C13-C09 | -2.59 | 114.69 | 120.57 |
| 29 | g | 304 | CLA | C1B-CHB-C4A | -2.59 | 124.98 | 130.12 |
| 29 | A | 850 | CLA | O2D-CGD-O1D | -2.59 | 118.77 | 123.84 |
| 29 | a | 302 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 38 | m | 614 | II0 | C05-C03-C09 | 2.59 | 114.87 | 109.62 |
| 29 | b | 307 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 29 | b | 312 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 29 | d | 307 | CLA | C2D-C1D-ND | -2.59 | 108.20 | 110.10 |
| 29 | B | 815 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 29 | b | 312 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 29 | A | 807 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 29 | d | 303 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 38 | n | 615 | II0 | C07-C11-C13 | 2.59 | 117.01 | 111.85 |
| 38 | m | 614 | II0 | C29-C31-C33 | -2.59 | 115.15 | 123.22 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 820 | CLA | C1B-CHB-C4A | -2.59 | 125.00 | 130.12 |
| 29 | s | 402 | CLA | C1B-CHB-C4A | -2.59 | 125.00 | 130.12 |
| 29 | B | 812 | CLA | O2D-CGD-O1D | -2.59 | 118.78 | 123.84 |
| 29 | f | 613 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 36 | j | 319 | DGD | CDB-CCB-CBB | -2.58 | 101.30 | 114.42 |
| 29 | e | 307 | CLA | CHB-C4A-NA | 2.58 | 128.09 | 124.51 |
| 29 | f | 610 | CLA | CHB-C4A-NA | 2.58 | 128.09 | 124.51 |
| 29 | B | 808 | CLA | CBA-CAA-C2A | 2.58 | 121.49 | 113.86 |
| 29 | m | 607 | CLA | CHB-C4A-NA | 2.58 | 128.09 | 124.51 |
| 31 | a | 318 | LHG | O8-C23-C24 | 2.58 | 120.01 | 111.91 |
| 29 | g | 303 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 32 | M | 101 | WVN | C10-C06-C13 | 2.58 | 114.45 | 110.48 |
| 31 | g | 301 | LHG | C11-C10-C9 | -2.58 | 101.33 | 114.42 |
| 38 | d | 316 | II0 | C11-C13-C09 | -2.58 | 114.72 | 120.57 |
| 29 | B | 804 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 29 | a | 309 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 29 | A | 817 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 38 | k | 617 | II0 | C06-C08-C12 | 2.58 | 113.83 | 110.30 |
| 29 | k | 608 | CLA | C1B-CHB-C4A | -2.58 | 125.01 | 130.12 |
| 29 | h | 303 | CLA | C1B-CHB-C4A | -2.58 | 125.01 | 130.12 |
| 29 | A | 830 | CLA | C1B-CHB-C4A | -2.58 | 125.02 | 130.12 |
| 38 | d | 317 | II0 | C38-C36-C34 | -2.58 | 114.02 | 118.08 |
| 29 | a | 305 | CLA | C1B-CHB-C4A | -2.58 | 125.02 | 130.12 |
| 29 | g | 306 | CLA | C1B-CHB-C4A | -2.57 | 125.02 | 130.12 |
| 29 | d | 309 | CLA | CHB-C4A-NA | 2.57 | 128.07 | 124.51 |
| 32 | s | 407 | WVN | C14-C15-C13 | -2.57 | 118.99 | 122.73 |
| 38 | f | 614 | II0 | C05-C03-C09 | 2.57 | 114.84 | 109.62 |
| 31 | j | 318 | LHG | C11-C10-C9 | -2.57 | 101.36 | 114.42 |
| 39 | g | 324 | IHT | C18-C22-C23 | -2.57 | 122.35 | 126.23 |
| 29 | c | 301 | CLA | CHB-C4A-NA | 2.57 | 128.07 | 124.51 |
| 29 | i | 312 | CLA | C1B-CHB-C4A | -2.57 | 125.02 | 130.12 |
| 29 | n | 601 | CLA | CHB-C4A-NA | 2.57 | 128.07 | 124.51 |
| 32 | A | 846 | WVN | C03-C04-C09 | -2.57 | 107.73 | 112.00 |
| 29 | b | 310 | CLA | CHB-C4A-NA | 2.57 | 128.07 | 124.51 |
| 38 | J | 103 | II0 | C05-C03-C09 | 2.57 | 114.83 | 109.62 |
| 31 | J | 104 | LHG | O8-C23-C24 | 2.57 | 119.97 | 111.91 |
| 40 | k | 611 | KC2 | CMB-C2B-C1B | 2.57 | 129.24 | 124.71 |
| 40 | g | 313 | KC2 | CHB-C1B-NB | -2.57 | 122.09 | 124.45 |
| 29 | B | 838 | CLA | CHB-C4A-NA | 2.57 | 128.06 | 124.51 |
| 38 | l | 315 | II0 | C12-C14-C10 | -2.57 | 114.75 | 120.57 |
| 31 | L | 209 | LHG | O8-C23-C24 | 2.57 | 119.96 | 111.91 |
| 29 | A | 818 | CLA | CHD-C1D-ND | -2.57 | 122.10 | 124.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | l | 301 | CLA | C1B-CHB-C4A | -2.57 | 125.04 | 130.12 |
| 29 | A | 833 | CLA | CMB-C2B-C1B | -2.56 | 124.52 | 128.46 |
| 29 | B | 826 | CLA | C1B-CHB-C4A | -2.56 | 125.04 | 130.12 |
| 32 | F | 205 | WVN | C21-C15-C14 | -2.56 | 108.69 | 113.62 |
| 38 | a | 317 | II0 | C11-C13-C09 | -2.56 | 114.75 | 120.57 |
| 29 | g | 308 | CLA | O2D-CGD-CBD | 2.56 | 115.82 | 111.27 |
| 29 | n | 613 | CLA | O2D-CGD-O1D | -2.56 | 118.83 | 123.84 |
| 29 | e | 308 | CLA | CHB-C4A-NA | 2.56 | 128.06 | 124.51 |
| 29 | j | 314 | CLA | CHB-C4A-NA | 2.56 | 128.06 | 124.51 |
| 29 | A | 806 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 29 | B | 807 | CLA | C1B-CHB-C4A | -2.56 | 125.05 | 130.12 |
| 29 | g | 304 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 29 | A | 829 | CLA | C1B-CHB-C4A | -2.56 | 125.05 | 130.12 |
| 37 | L | 210 | LMG | O6-C1-O1 | -2.56 | 103.92 | 109.97 |
| 38 | e | 314 | II0 | C29-C31-C33 | -2.56 | 115.24 | 123.22 |
| 38 | k | 619 | II0 | C11-C13-C09 | -2.56 | 114.77 | 120.57 |
| 29 | k | 607 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 29 | f | 608 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 38 | n | 614 | II0 | C06-C08-C12 | -2.55 | 106.81 | 110.30 |
| 29 | A | 832 | CLA | O2D-CGD-CBD | 2.55 | 115.80 | 111.27 |
| 29 | i | 308 | CLA | C1B-CHB-C4A | -2.55 | 125.07 | 130.12 |
| 29 | A | 809 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 29 | A | 837 | CLA | C1B-CHB-C4A | -2.55 | 125.07 | 130.12 |
| 31 | a | 318 | LHG | C11-C10-C9 | -2.55 | 101.50 | 114.42 |
| 29 | A | 814 | CLA | CHB-C4A-NA | 2.55 | 128.03 | 124.51 |
| 38 | c | 314 | II0 | C05-C07-C11 | -2.55 | 106.82 | 110.30 |
| 40 | g | 314 | KC2 | CMB-C2B-C1B | 2.54 | 129.20 | 124.71 |
| 29 | A | 832 | CLA | CHB-C4A-NA | 2.54 | 128.03 | 124.51 |
| 32 | i | 315 | WVN | C01-C02-C05 | 2.54 | 115.97 | 111.42 |
| 29 | i | 305 | CLA | C1B-CHB-C4A | -2.54 | 125.08 | 130.12 |
| 38 | f | 615 | II0 | C05-C03-C09 | 2.54 | 114.77 | 109.62 |
| 38 | n | 618 | II0 | C41-C42-C40 | -2.54 | 118.27 | 123.47 |
| 29 | L | 202 | CLA | CHB-C4A-NA | 2.54 | 128.02 | 124.51 |
| 32 | l | 316 | WVN | C02-C05-C09 | -2.54 | 118.34 | 121.47 |
| 31 | m | 619 | LHG | C11-C10-C9 | -2.54 | 101.54 | 114.42 |
| 29 | d | 307 | CLA | O2D-CGD-CBD | 2.54 | 115.78 | 111.27 |
| 29 | c | 303 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 38 | a | 314 | II0 | C05-C07-C11 | -2.54 | 106.83 | 110.30 |
| 29 | f | 610 | CLA | O2D-CGD-O1D | -2.54 | 118.88 | 123.84 |
| 29 | n | 609 | CLA | C1B-CHB-C4A | -2.54 | 125.10 | 130.12 |
| 29 | d | 306 | CLA | CMB-C2B-C3B | 2.53 | 129.42 | 124.68 |
| 29 | B | 825 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | b | 303 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 40 | s | 401 | KC2 | CHD-C4C-NC | 2.53 | 128.04 | 124.20 |
| 32 | h | 308 | WVN | C26-C29-C31 | -2.53 | 115.31 | 123.22 |
| 29 | B | 825 | CLA | C1B-CHB-C4A | -2.53 | 125.10 | 130.12 |
| 29 | b | 312 | CLA | O2D-CGD-O1D | -2.53 | 118.89 | 123.84 |
| 29 | m | 601 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 29 | d | 310 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 29 | g | 307 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 29 | b | 313 | CLA | C2A-C1A-CHA | 2.53 | 128.28 | 123.86 |
| 40 | f | 611 | KC2 | CHD-C4C-C3C | -2.53 | 116.95 | 126.11 |
| 38 | e | 312 | II0 | C12-C14-C10 | -2.53 | 114.84 | 120.57 |
| 29 | m | 606 | CLA | C1B-CHB-C4A | -2.53 | 125.11 | 130.12 |
| 29 | a | 308 | CLA | CHB-C4A-NA | 2.53 | 128.00 | 124.51 |
| 29 | R | 203 | CLA | CBA-CAA-C2A | 2.52 | 121.31 | 113.86 |
| 29 | B | 838 | CLA | O2D-CGD-CBD | 2.52 | 115.75 | 111.27 |
| 29 | B | 836 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 32 | R | 202 | WVN | C39-C40-C37 | -2.52 | 118.31 | 123.47 |
| 40 | f | 611 | KC2 | CHB-C1B-NB | -2.52 | 122.14 | 124.45 |
| 29 | B | 841 | CLA | CAC-C3C-C4C | 2.52 | 128.08 | 124.81 |
| 29 | A | 839 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 31 | c | 316 | LHG | O8-C23-C24 | 2.52 | 119.81 | 111.91 |
| 40 | k | 611 | KC2 | O1D-CGD-CBD | -2.52 | 119.33 | 124.48 |
| 29 | A | 813 | CLA | C1B-CHB-C4A | -2.52 | 125.13 | 130.12 |
| 32 | A | 847 | WVN | C31-C32-C36 | -2.52 | 115.08 | 118.94 |
| 32 | B | 846 | WVN | C23-C25-C28 | -2.52 | 115.08 | 118.94 |
| 32 | I | 101 | WVN | C01-C02-C05 | 2.52 | 115.93 | 111.42 |
| 32 | h | 308 | WVN | C01-C02-C05 | 2.52 | 115.93 | 111.42 |
| 32 | A | 846 | WVN | C38-C34-C33 | -2.52 | 114.11 | 118.08 |
| 29 | A | 825 | CLA | C1B-CHB-C4A | -2.52 | 125.14 | 130.12 |
| 38 | f | 614 | II0 | C12-C14-C10 | -2.51 | 114.86 | 120.57 |
| 38 | m | 615 | II0 | C29-C31-C33 | -2.51 | 115.37 | 123.22 |
| 29 | c | 311 | CLA | CAC-C3C-C4C | 2.51 | 128.07 | 124.81 |
| 29 | s | 406 | CLA | CHB-C4A-NA | 2.51 | 127.99 | 124.51 |
| 29 | d | 302 | CLA | C1B-CHB-C4A | -2.51 | 125.14 | 130.12 |
| 29 | e | 303 | CLA | CHB-C4A-NA | 2.51 | 127.99 | 124.51 |
| 40 | s | 404 | KC2 | O1D-CGD-CBD | -2.51 | 119.34 | 124.48 |
| 29 | B | 821 | CLA | C1B-CHB-C4A | -2.51 | 125.14 | 130.12 |
| 32 | s | 405 | WVN | C20-C13-C15 | -2.51 | 115.38 | 121.46 |
| 29 | n | 608 | CLA | C1-C2-C3 | -2.51 | 121.70 | 126.04 |
| 32 | B | 849 | WVN | C38-C34-C33 | -2.51 | 114.12 | 118.08 |
| 40 | s | 401 | KC2 | CHD-C4C-C3C | -2.51 | 117.01 | 126.11 |
| 29 | n | 609 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | A | 802 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 29 | k | 608 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 29 | m | 602 | CLA | C1B-CHB-C4A | -2.51 | 125.15 | 130.12 |
| 29 | A | 851 | CLA | O2D-CGD-O1D | -2.51 | 118.94 | 123.84 |
| 31 | g | 322 | LHG | C11-C10-C9 | -2.51 | 101.70 | 114.42 |
| 35 | A | 853 | SQD | O48-C23-C24 | 2.51 | 119.77 | 111.91 |
| 29 | A | 815 | CLA | C1B-CHB-C4A | -2.51 | 125.16 | 130.12 |
| 38 | n | 616 | II0 | C08-C12-C14 | 2.50 | 116.84 | 111.85 |
| 29 | A | 831 | CLA | CMB-C2B-C1B | -2.50 | 124.61 | 128.46 |
| 29 | B | 810 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 38 | n | 615 | II0 | C05-C07-C11 | 2.50 | 113.73 | 110.30 |
| 40 | m | 611 | KC2 | CHD-C4C-NC | 2.50 | 128.00 | 124.20 |
| 38 | f | 618 | II0 | C12-C14-C10 | -2.50 | 114.89 | 120.57 |
| 29 | k | 606 | CLA | C1B-CHB-C4A | -2.50 | 125.16 | 130.12 |
| 39 | j | 317 | IHT | C22-C18-C07 | -2.50 | 120.17 | 127.20 |
| 39 | g | 324 | IHT | C22-C18-C07 | 2.50 | 134.23 | 127.20 |
| 29 | k | 604 | CLA | C1B-CHB-C4A | -2.50 | 125.16 | 130.12 |
| 31 | b | 318 | LHG | O8-C23-C24 | 2.50 | 119.75 | 111.91 |
| 32 | F | 205 | WVN | C31-C32-C36 | -2.50 | 115.11 | 118.94 |
| 29 | d | 306 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 29 | A | 838 | CLA | C1B-CHB-C4A | -2.50 | 125.17 | 130.12 |
| 29 | c | 309 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 31 | L | 208 | LHG | C11-C10-C9 | -2.50 | 101.76 | 114.42 |
| 29 | d | 308 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 40 | j | 312 | KC2 | CHD-C4C-C3C | -2.49 | 117.07 | 126.11 |
| 38 | f | 615 | II0 | C29-C31-C33 | -2.49 | 115.43 | 123.22 |
| 29 | c | 304 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |
| 38 | l | 313 | II0 | C29-C31-C33 | -2.49 | 115.44 | 123.22 |
| 29 | d | 306 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |
| 29 | A | 806 | CLA | CMB-C2B-C3B | 2.49 | 129.34 | 124.68 |
| 29 | n | 608 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 38 | b | 315 | II0 | C29-C31-C33 | -2.49 | 115.45 | 123.22 |
| 38 | l | 314 | II0 | C05-C03-C09 | 2.49 | 114.66 | 109.62 |
| 32 | A | 854 | WVN | C26-C29-C31 | -2.49 | 115.45 | 123.22 |
| 32 | l | 316 | WVN | C26-C29-C31 | -2.49 | 115.45 | 123.22 |
| 31 | n | 619 | LHG | O8-C23-C24 | 2.49 | 119.72 | 111.91 |
| 37 | c | 317 | LMG | C40-C39-C38 | -2.49 | 101.80 | 114.42 |
| 29 | A | 823 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 38 | f | 614 | II0 | C33-C35-C39 | -2.49 | 115.13 | 118.94 |
| 29 | d | 307 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 29 | m | 601 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 29 | n | 604 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | l | 308 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 40 | f | 611 | KC2 | O1D-CGD-CBD | -2.48 | 119.41 | 124.48 |
| 29 | f | 609 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 29 | j | 304 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 38 | n | 614 | II0 | C05-C07-C11 | 2.48 | 113.70 | 110.30 |
| 40 | s | 404 | KC2 | CHD-C4C-NC | 2.48 | 127.97 | 124.20 |
| 29 | j | 305 | CLA | C1B-CHB-C4A | -2.48 | 125.21 | 130.12 |
| 40 | d | 312 | KC2 | C3C-C2C-C1C | 2.48 | 108.32 | 106.49 |
| 36 | j | 319 | DGD | O6E-C5E-C4E | 2.48 | 114.19 | 109.69 |
| 31 | a | 301 | LHG | C11-C10-C9 | -2.48 | 101.85 | 114.42 |
| 29 | A | 837 | CLA | CMB-C2B-C3B | 2.48 | 129.31 | 124.68 |
| 29 | g | 316 | CLA | C1B-CHB-C4A | -2.48 | 125.21 | 130.12 |
| 29 | A | 802 | CLA | C1B-CHB-C4A | -2.48 | 125.21 | 130.12 |
| 29 | b | 305 | CLA | C1B-CHB-C4A | -2.48 | 125.21 | 130.12 |
| 29 | A | 828 | CLA | C1B-CHB-C4A | -2.47 | 125.22 | 130.12 |
| 29 | A | 808 | CLA | CMB-C2B-C3B | 2.47 | 129.31 | 124.68 |
| 38 | i | 313 | II0 | C12-C14-C10 | -2.47 | 114.95 | 120.57 |
| 29 | j | 308 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 38 | i | 314 | II0 | C05-C03-C09 | 2.47 | 114.63 | 109.62 |
| 29 | B | 820 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 29 | A | 840 | CLA | O2A-CGA-O1A | -2.47 | 117.36 | 123.59 |
| 29 | B | 830 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 29 | B | 832 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 29 | a | 303 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 29 | F | 201 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 29 | B | 835 | CLA | CMB-C2B-C3B | 2.47 | 129.29 | 124.68 |
| 29 | n | 606 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 29 | A | 819 | CLA | CED-O2D-CGD | 2.47 | 121.52 | 115.94 |
| 38 | a | 317 | II0 | C41-C42-C40 | -2.46 | 118.43 | 123.47 |
| 29 | b | 306 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 29 | j | 307 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 32 | i | 315 | WVN | C26-C29-C31 | -2.46 | 115.53 | 123.22 |
| 40 | f | 611 | KC2 | CMB-C2B-C1B | 2.46 | 129.05 | 124.71 |
| 29 | B | 810 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 31 | i | 317 | LHG | C11-C10-C9 | -2.46 | 101.93 | 114.42 |
| 29 | n | 603 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 29 | A | 819 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 31 | g | 301 | LHG | O8-C23-C24 | 2.46 | 119.62 | 111.91 |
| 29 | B | 811 | CLA | C1B-CHB-C4A | -2.46 | 125.25 | 130.12 |
| 29 | c | 309 | CLA | C1B-CHB-C4A | -2.46 | 125.25 | 130.12 |
| 29 | A | 830 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 35 | A | 853 | SQD | C3-C4-C5 | 2.46 | 114.62 | 110.24 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 31 | A | 848 | LHG | C11-C10-C9 | -2.46 | 101.96 | 114.42 |
| 29 | B | 812 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 31 | J | 104 | LHG | C11-C10-C9 | -2.45 | 101.97 | 114.42 |
| 29 | h | 303 | CLA | C1-C2-C3 | -2.45 | 122.78 | 126.75 |
| 40 | k | 611 | KC2 | CHD-C4C-C3C | -2.45 | 117.22 | 126.11 |
| 29 | A | 802 | CLA | O2A-CGA-O1A | -2.45 | 117.40 | 123.59 |
| 29 | d | 309 | CLA | CMA-C3A-C2A | -2.45 | 110.38 | 116.10 |
| 37 | F | 206 | LMG | C40-C39-C38 | -2.45 | 101.98 | 114.42 |
| 40 | d | 311 | KC2 | O1D-CGD-CBD | -2.45 | 119.47 | 124.48 |
| 38 | f | 616 | II0 | C29-C31-C33 | -2.45 | 115.57 | 123.22 |
| 29 | k | 609 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 40 | s | 401 | KC2 | CAA-C2A-C1A | -2.45 | 113.49 | 124.75 |
| 29 | f | 607 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 29 | B | 818 | CLA | O2A-CGA-O1A | -2.45 | 117.41 | 123.59 |
| 29 | A | 811 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 38 | d | 301 | II0 | C11-C13-C09 | -2.45 | 115.01 | 120.57 |
| 29 | e | 304 | CLA | O2A-CGA-O1A | -2.45 | 117.41 | 123.59 |
| 29 | O | 201 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 29 | n | 601 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 29 | B | 837 | CLA | CHB-C4A-NA | 2.45 | 127.89 | 124.51 |
| 29 | B | 833 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 29 | e | 311 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 29 | A | 813 | CLA | CHD-C1D-ND | -2.45 | 122.21 | 124.45 |
| 29 | h | 306 | CLA | CMB-C2B-C3B | 2.45 | 129.25 | 124.68 |
| 29 | b | 307 | CLA | O2D-CGD-O1D | -2.44 | 119.06 | 123.84 |
| 29 | A | 803 | CLA | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |
| 31 | i | 317 | LHG | O8-C23-C24 | 2.44 | 119.57 | 111.91 |
| 38 | k | 616 | II0 | C06-C08-C12 | -2.44 | 106.96 | 110.30 |
| 29 | m | 602 | CLA | O2D-CGD-CBD | 2.44 | 115.61 | 111.27 |
| 29 | e | 303 | CLA | C1B-CHB-C4A | -2.44 | 125.28 | 130.12 |
| 32 | A | 845 | WVN | C10-C06-C13 | 2.44 | 114.24 | 110.48 |
| 29 | l | 306 | CLA | C1B-CHB-C4A | -2.44 | 125.28 | 130.12 |
| 38 | k | 615 | II0 | C05-C03-C09 | 2.44 | 114.56 | 109.62 |
| 38 | e | 314 | II0 | C12-C14-C10 | -2.44 | 115.03 | 120.57 |
| 29 | s | 406 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 29 | B | 819 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 29 | m | 604 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 29 | B | 828 | CLA | CMB-C2B-C3B | 2.44 | 129.24 | 124.68 |
| 31 | L | 208 | LHG | C20-C19-C18 | -2.44 | 102.06 | 114.42 |
| 29 | l | 304 | CLA | C1-C2-C3 | -2.43 | 121.83 | 126.04 |
| 29 | L | 207 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 29 | c | 305 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | b | 306 | CLA | CAC-C3C-C4C | 2.43 | 127.97 | 124.81 |
| 29 | B | 816 | CLA | CHD-C1D-ND | -2.43 | 122.22 | 124.45 |
| 31 | c | 316 | LHG | C11-C10-C9 | -2.43 | 102.07 | 114.42 |
| 39 | m | 617 | IHT | C05-C08-C12 | -2.43 | 106.97 | 110.30 |
| 29 | B | 834 | CLA | O2A-CGA-O1A | -2.43 | 117.46 | 123.59 |
| 29 | A | 819 | CLA | C1-C2-C3 | -2.43 | 121.84 | 126.04 |
| 38 | e | 313 | II0 | C17-C04-C10 | -2.43 | 106.61 | 110.47 |
| 29 | A | 821 | CLA | O2D-CGD-O1D | -2.43 | 119.09 | 123.84 |
| 29 | A | 835 | CLA | O2A-CGA-O1A | -2.43 | 117.46 | 123.59 |
| 32 | F | 204 | WVN | C12-C14-C15 | -2.43 | 109.74 | 114.08 |
| 29 | m | 613 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 29 | B | 834 | CLA | C1B-CHB-C4A | -2.43 | 125.31 | 130.12 |
| 29 | n | 608 | CLA | C1B-CHB-C4A | -2.43 | 125.31 | 130.12 |
| 29 | B | 830 | CLA | CMB-C2B-C3B | 2.43 | 129.22 | 124.68 |
| 31 | e | 317 | LHG | C11-C10-C9 | -2.43 | 102.11 | 114.42 |
| 38 | c | 313 | II0 | C12-C14-C10 | -2.43 | 115.06 | 120.57 |
| 29 | A | 838 | CLA | O2D-CGD-O1D | -2.43 | 119.10 | 123.84 |
| 29 | c | 302 | CLA | C1B-CHB-C4A | -2.42 | 125.32 | 130.12 |
| 31 | a | 301 | LHG | O8-C23-C24 | 2.42 | 119.51 | 111.91 |
| 32 | M | 101 | WVN | C01-C02-C11 | -2.42 | 109.64 | 112.70 |
| 32 | L | 206 | WVN | C28-C30-C33 | -2.42 | 115.66 | 123.22 |
| 29 | a | 311 | CLA | O2A-CGA-O1A | -2.42 | 117.48 | 123.59 |
| 40 | g | 315 | KC2 | CHB-C1B-NB | -2.42 | 122.23 | 124.45 |
| 29 | B | 841 | CLA | CBC-CAC-C3C | 2.42 | 119.10 | 112.43 |
| 31 | A | 843 | LHG | C11-C10-C9 | -2.42 | 102.16 | 114.42 |
| 29 | A | 831 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 40 | g | 315 | KC2 | O2D-CGD-O1D | -2.42 | 119.11 | 123.84 |
| 31 | b | 318 | LHG | C20-C19-C18 | -2.42 | 102.16 | 114.42 |
| 29 | g | 308 | CLA | CHB-C4A-NA | 2.42 | 127.85 | 124.51 |
| 29 | A | 816 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 29 | A | 814 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 29 | J | 102 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 31 | f | 619 | LHG | C20-C19-C18 | -2.41 | 102.17 | 114.42 |
| 32 | R | 201 | WVN | C10-C06-C13 | 2.41 | 114.20 | 110.48 |
| 38 | l | 313 | II0 | C05-C03-C09 | 2.41 | 114.51 | 109.62 |
| 31 | b | 318 | LHG | C11-C10-C9 | -2.41 | 102.17 | 114.42 |
| 38 | d | 315 | II0 | C18-C04-C10 | -2.41 | 106.63 | 110.47 |
| 38 | k | 619 | II0 | C41-C42-C40 | -2.41 | 118.53 | 123.47 |
| 37 | n | 620 | LMG | C38-C37-C36 | -2.41 | 102.18 | 114.42 |
| 29 | A | 804 | CLA | CAA-C2A-C3A | -2.41 | 106.17 | 112.78 |
| 31 | f | 620 | LHG | C11-C10-C9 | -2.41 | 102.18 | 114.42 |
| 29 | A | 836 | CLA | C1B-CHB-C4A | -2.41 | 125.34 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | e | 314 | II0 | C05-C07-C11 | -2.41 | 107.00 | 110.30 |
| 29 | A | 813 | CLA | CHB-C4A-NA | 2.41 | 127.84 | 124.51 |
| 40 | e | 309 | KC2 | CHB-C1B-NB | -2.41 | 122.24 | 124.45 |
| 29 | B | 813 | CLA | CBA-CAA-C2A | 2.41 | 120.97 | 113.86 |
| 38 | a | 314 | II0 | C30-C32-C34 | -2.41 | 115.71 | 123.22 |
| 29 | B | 833 | CLA | CHB-C4A-NA | 2.40 | 127.84 | 124.51 |
| 38 | h | 311 | II0 | C15-C03-C09 | -2.40 | 106.65 | 110.47 |
| 38 | g | 317 | II0 | C15-C03-C09 | -2.40 | 106.65 | 110.47 |
| 29 | h | 306 | CLA | O2A-CGA-O1A | -2.40 | 117.53 | 123.59 |
| 29 | b | 304 | CLA | C1B-CHB-C4A | -2.40 | 125.36 | 130.12 |
| 38 | j | 301 | II0 | C12-C14-C10 | -2.40 | 115.12 | 120.57 |
| 29 | A | 823 | CLA | C2D-C1D-ND | -2.40 | 108.33 | 110.10 |
| 31 | A | 848 | LHG | C20-C19-C18 | -2.40 | 102.24 | 114.42 |
| 29 | k | 614 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 29 | g | 305 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 29 | A | 819 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 40 | n | 611 | KC2 | CHD-C4C-NC | 2.40 | 127.84 | 124.20 |
| 38 | b | 314 | II0 | C12-C14-C10 | -2.40 | 115.13 | 120.57 |
| 29 | L | 203 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 31 | l | 318 | LHG | C11-C10-C9 | -2.40 | 102.25 | 114.42 |
| 29 | B | 828 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 29 | B | 819 | CLA | O2A-CGA-O1A | -2.40 | 117.54 | 123.59 |
| 40 | n | 611 | KC2 | O2D-CGD-O1D | -2.40 | 119.15 | 123.84 |
| 32 | F | 204 | WVN | C01-C02-C11 | -2.40 | 109.67 | 112.70 |
| 38 | i | 319 | II0 | C15-C03-C09 | -2.40 | 106.66 | 110.47 |
| 29 | n | 610 | CLA | C2A-C1A-CHA | 2.40 | 128.05 | 123.86 |
| 29 | j | 303 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 40 | e | 309 | KC2 | CHD-C4C-C3C | -2.40 | 117.43 | 126.11 |
| 31 | a | 318 | LHG | C20-C19-C18 | -2.39 | 102.27 | 114.42 |
| 29 | m | 609 | CLA | C1B-CHB-C4A | -2.39 | 125.38 | 130.12 |
| 29 | f | 607 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 29 | B | 842 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 29 | s | 402 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 29 | B | 829 | CLA | CHB-C4A-NA | 2.39 | 127.81 | 124.51 |
| 29 | d | 309 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 31 | L | 209 | LHG | C11-C10-C9 | -2.39 | 102.31 | 114.42 |
| 40 | j | 312 | KC2 | C2A-C1A-CHA | -2.39 | 119.55 | 127.44 |
| 29 | d | 308 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 40 | g | 314 | KC2 | CMC-C2C-C1C | 2.38 | 128.67 | 125.04 |
| 38 | j | 316 | II0 | C05-C03-C09 | 2.38 | 114.45 | 109.62 |
| 36 | j | 319 | DGD | O2D-C2D-C1D | -2.38 | 104.26 | 110.05 |
| 29 | B | 836 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | a | 307 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 29 | m | 610 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 29 | b | 306 | CLA | CHD-C1D-ND | -2.38 | 122.27 | 124.45 |
| 29 | B | 823 | CLA | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 38 | e | 316 | II0 | C04-C06-C08 | 2.38 | 119.02 | 113.64 |
| 38 | i | 314 | II0 | C17-C04-C10 | -2.38 | 106.69 | 110.47 |
| 38 | k | 620 | II0 | C06-C04-C10 | 2.38 | 114.44 | 109.62 |
| 29 | A | 828 | CLA | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 29 | g | 310 | CLA | C1B-CHB-C4A | -2.38 | 125.41 | 130.12 |
| 37 | O | 205 | LMG | O1-C7-C8 | -2.38 | 105.17 | 110.90 |
| 29 | B | 803 | CLA | C1B-CHB-C4A | -2.37 | 125.41 | 130.12 |
| 37 | c | 317 | LMG | O3-C3-C2 | -2.37 | 104.86 | 110.35 |
| 37 | n | 620 | LMG | O3-C3-C2 | -2.37 | 104.86 | 110.35 |
| 29 | L | 202 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | c | 302 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | g | 316 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 38 | J | 103 | II0 | C15-C03-C09 | -2.37 | 106.70 | 110.47 |
| 29 | m | 602 | CLA | CMC-C2C-C3C | 2.37 | 132.56 | 126.12 |
| 29 | A | 817 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | l | 303 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | A | 824 | CLA | C2A-C1A-CHA | 2.37 | 128.00 | 123.86 |
| 29 | d | 304 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | l | 305 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 32 | B | 846 | WVN | C17-C06-C13 | 2.37 | 114.14 | 110.30 |
| 38 | m | 615 | II0 | C16-C03-C09 | -2.37 | 106.70 | 110.47 |
| 32 | e | 315 | WVN | C39-C40-C37 | -2.37 | 118.62 | 123.47 |
| 40 | s | 401 | KC2 | CMC-C2C-C1C | 2.37 | 128.65 | 125.04 |
| 31 | c | 320 | LHG | C20-C19-C18 | -2.37 | 102.40 | 114.42 |
| 38 | l | 315 | II0 | C07-C11-C13 | 2.37 | 116.57 | 111.85 |
| 29 | A | 821 | CLA | CHD-C1D-ND | -2.37 | 122.28 | 124.45 |
| 32 | A | 854 | WVN | C39-C40-C37 | -2.37 | 118.63 | 123.47 |
| 29 | m | 612 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 29 | l | 304 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 29 | a | 310 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 29 | n | 610 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 29 | B | 841 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 29 | b | 308 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 29 | j | 309 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 38 | h | 310 | II0 | C06-C04-C10 | 2.36 | 114.41 | 109.62 |
| 29 | b | 312 | CLA | CMB-C2B-C3B | 2.36 | 129.10 | 124.68 |
| 29 | B | 842 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 29 | A | 825 | CLA | CHD-C1D-ND | -2.36 | 122.28 | 124.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | L | 204 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 29 | e | 302 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 36 | B | 844 | DGD | CFB-CEB-CDB | -2.36 | 102.45 | 114.42 |
| 29 | A | 804 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 29 | Q | 302 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 29 | e | 308 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 38 | k | 620 | II0 | C05-C03-C09 | 2.36 | 114.40 | 109.62 |
| 29 | c | 305 | CLA | CHB-C4A-NA | 2.36 | 127.77 | 124.51 |
| 29 | A | 822 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 29 | m | 603 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 38 | g | 317 | II0 | C11-C13-C09 | -2.36 | 115.22 | 120.57 |
| 37 | Q | 301 | LMG | O7-C10-O9 | -2.35 | 118.01 | 123.70 |
| 40 | m | 611 | KC2 | CMB-C2B-C1B | 2.35 | 128.86 | 124.71 |
| 29 | A | 806 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 32 | F | 204 | WVN | C06-C13-C20 | -2.35 | 109.12 | 115.78 |
| 29 | a | 306 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | e | 304 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | b | 313 | CLA | O2A-CGA-O1A | -2.35 | 117.66 | 123.59 |
| 32 | l | 302 | WVN | C21-C15-C14 | -2.35 | 109.10 | 113.62 |
| 40 | g | 314 | KC2 | CAC-C3C-C4C | 2.35 | 135.42 | 124.47 |
| 29 | J | 102 | CLA | CAA-C2A-C3A | -2.35 | 108.39 | 114.26 |
| 29 | A | 837 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 29 | B | 839 | CLA | O2A-CGA-O1A | -2.35 | 117.67 | 123.59 |
| 29 | B | 840 | CLA | O2D-CGD-CBD | 2.35 | 115.44 | 111.27 |
| 40 | e | 309 | KC2 | C2A-C1A-CHA | -2.35 | 119.68 | 127.44 |
| 38 | J | 103 | II0 | C41-C42-C40 | -2.35 | 118.67 | 123.47 |
| 40 | g | 313 | KC2 | CHD-C4C-C3C | -2.35 | 117.60 | 126.11 |
| 29 | F | 202 | CLA | CHB-C4A-NA | 2.35 | 127.75 | 124.51 |
| 29 | b | 307 | CLA | CHB-C4A-NA | 2.35 | 127.75 | 124.51 |
| 29 | a | 308 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |
| 29 | d | 310 | CLA | C2D-C1D-ND | -2.34 | 108.38 | 110.10 |
| 29 | B | 837 | CLA | CAA-CBA-CGA | -2.34 | 106.41 | 113.25 |
| 29 | d | 308 | CLA | CMB-C2B-C3B | 2.34 | 129.06 | 124.68 |
| 38 | m | 616 | II0 | C16-C03-C09 | -2.34 | 106.74 | 110.47 |
| 38 | a | 313 | II0 | C29-C31-C33 | -2.34 | 115.91 | 123.22 |
| 29 | n | 602 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 31 | n | 619 | LHG | C11-C10-C9 | -2.34 | 102.54 | 114.42 |
| 38 | e | 313 | II0 | C05-C03-C09 | 2.34 | 114.36 | 109.62 |
| 29 | B | 805 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 29 | d | 313 | CLA | C2A-C1A-CHA | 2.34 | 127.95 | 123.86 |
| 29 | A | 811 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 29 | b | 310 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | j | 313 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 29 | A | 819 | CLA | CAA-C2A-C3A | -2.34 | 106.37 | 112.78 |
| 29 | k | 601 | CLA | C1B-CHB-C4A | -2.34 | 125.49 | 130.12 |
| 40 | i | 310 | KC2 | OBD-CAD-C3D | -2.34 | 124.10 | 127.98 |
| 40 | s | 404 | KC2 | CAB-C3B-C4B | 2.34 | 130.54 | 124.90 |
| 29 | a | 304 | CLA | C1B-CHB-C4A | -2.34 | 125.49 | 130.12 |
| 38 | j | 315 | II0 | C11-C13-C09 | -2.34 | 115.27 | 120.57 |
| 29 | B | 840 | CLA | O2A-C1-C2 | -2.34 | 102.50 | 108.64 |
| 32 | h | 308 | WVN | C21-C15-C14 | -2.33 | 109.13 | 113.62 |
| 38 | i | 316 | II0 | C15-C03-C09 | -2.33 | 106.76 | 110.47 |
| 29 | B | 805 | CLA | O2A-CGA-O1A | -2.33 | 117.70 | 123.59 |
| 29 | h | 312 | CLA | CHB-C4A-NA | 2.33 | 127.74 | 124.51 |
| 29 | g | 323 | CLA | CBA-CAA-C2A | 2.33 | 120.75 | 113.86 |
| 32 | s | 407 | WVN | C38-C34-C33 | -2.33 | 114.40 | 118.08 |
| 32 | i | 315 | WVN | C18-C06-C13 | 2.33 | 114.08 | 110.30 |
| 29 | B | 822 | CLA | C2A-C1A-CHA | 2.33 | 127.94 | 123.86 |
| 29 | A | 803 | CLA | O2A-CGA-O1A | -2.33 | 117.71 | 123.59 |
| 29 | B | 828 | CLA | CHB-C4A-NA | 2.33 | 127.73 | 124.51 |
| 31 | a | 301 | LHG | C20-C19-C18 | -2.33 | 102.60 | 114.42 |
| 29 | g | 302 | CLA | C1B-CHB-C4A | -2.33 | 125.50 | 130.12 |
| 40 | m | 611 | KC2 | C2A-C1A-CHA | -2.33 | 119.74 | 127.44 |
| 29 | c | 308 | CLA | C1B-CHB-C4A | -2.33 | 125.50 | 130.12 |
| 29 | i | 302 | CLA | O2A-CGA-O1A | -2.33 | 117.72 | 123.59 |
| 29 | l | 309 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 29 | i | 304 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 29 | d | 318 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 29 | A | 806 | CLA | O2A-CGA-O1A | -2.33 | 117.72 | 123.59 |
| 38 | m | 614 | II0 | C08-C12-C14 | 2.33 | 116.49 | 111.85 |
| 29 | B | 809 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 31 | L | 209 | LHG | C27-C26-C25 | -2.33 | 102.61 | 114.42 |
| 29 | f | 610 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 29 | B | 837 | CLA | CMB-C2B-C3B | 2.33 | 129.03 | 124.68 |
| 38 | i | 314 | II0 | C07-C11-C13 | 2.33 | 116.49 | 111.85 |
| 29 | B | 827 | CLA | C2D-C1D-ND | -2.32 | 108.39 | 110.10 |
| 29 | j | 310 | CLA | C1B-CHB-C4A | -2.32 | 125.51 | 130.12 |
| 29 | a | 305 | CLA | CHD-C1D-ND | -2.32 | 122.32 | 124.45 |
| 29 | B | 838 | CLA | C1B-CHB-C4A | -2.32 | 125.51 | 130.12 |
| 29 | B | 822 | CLA | C1B-CHB-C4A | -2.32 | 125.52 | 130.12 |
| 40 | s | 404 | KC2 | OBD-CAD-C3D | -2.32 | 124.12 | 127.98 |
| 40 | g | 314 | KC2 | CGD-CBD-CAD | -2.32 | 103.21 | 110.73 |
| 29 | e | 307 | CLA | C1B-CHB-C4A | -2.32 | 125.52 | 130.12 |
| 29 | B | 823 | CLA | C1B-CHB-C4A | -2.32 | 125.52 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | B | 827 | CLA | O2A-CGA-O1A | -2.32 | 117.74 | 123.59 |
| 29 | m | 602 | CLA | CAC-C3C-C4C | -2.32 | 121.80 | 124.81 |
| 29 | l | 304 | CLA | O2D-CGD-CBD | 2.32 | 115.39 | 111.27 |
| 29 | g | 323 | CLA | CAA-C2A-C1A | 2.32 | 119.58 | 111.97 |
| 29 | A | 825 | CLA | CAA-C2A-C1A | -2.32 | 104.38 | 111.97 |
| 29 | g | 303 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 38 | e | 313 | II0 | C06-C08-C12 | 2.32 | 113.48 | 110.30 |
| 29 | n | 608 | CLA | O2A-CGA-O1A | -2.32 | 117.74 | 123.59 |
| 40 | g | 314 | KC2 | OBD-CAD-C3D | -2.32 | 124.13 | 127.98 |
| 32 | A | 854 | WVN | C07-C01-C03 | -2.32 | 104.26 | 109.03 |
| 32 | F | 205 | WVN | C40-C39-C36 | -2.32 | 118.73 | 123.47 |
| 29 | n | 613 | CLA | CAA-C2A-C3A | -2.32 | 106.44 | 112.78 |
| 29 | k | 604 | CLA | O2A-CGA-O1A | -2.32 | 117.75 | 123.59 |
| 29 | k | 605 | CLA | C2A-C1A-CHA | 2.32 | 127.91 | 123.86 |
| 29 | s | 403 | CLA | C3A-C2A-C1A | 2.32 | 104.81 | 101.34 |
| 29 | a | 311 | CLA | C1B-CHB-C4A | -2.31 | 125.53 | 130.12 |
| 29 | k | 610 | CLA | C1B-CHB-C4A | -2.31 | 125.53 | 130.12 |
| 29 | f | 607 | CLA | C2D-C1D-ND | -2.31 | 108.40 | 110.10 |
| 38 | k | 618 | II0 | C41-C42-C40 | 2.31 | 128.21 | 123.47 |
| 40 | d | 311 | KC2 | C2A-C1A-CHA | -2.31 | 119.79 | 127.44 |
| 29 | l | 308 | CLA | CHB-C4A-NA | 2.31 | 127.71 | 124.51 |
| 29 | i | 309 | CLA | C1B-CHB-C4A | -2.31 | 125.54 | 130.12 |
| 38 | d | 317 | II0 | C05-C03-C09 | 2.31 | 114.31 | 109.62 |
| 29 | k | 602 | CLA | C1B-CHB-C4A | -2.31 | 125.54 | 130.12 |
| 29 | K | 101 | CLA | O2A-CGA-O1A | -2.31 | 117.76 | 123.59 |
| 36 | B | 844 | DGD | O2D-C2D-C3D | -2.31 | 105.01 | 110.35 |
| 29 | A | 821 | CLA | CHB-C4A-NA | 2.31 | 127.71 | 124.51 |
| 37 | b | 319 | LMG | O1-C1-C2 | -2.31 | 104.70 | 108.30 |
| 29 | B | 823 | CLA | CAA-C2A-C1A | -2.31 | 104.41 | 111.97 |
| 29 | c | 301 | CLA | C1B-CHB-C4A | -2.31 | 125.55 | 130.12 |
| 29 | d | 305 | CLA | C1B-CHB-C4A | -2.31 | 125.55 | 130.12 |
| 32 | A | 854 | WVN | C03-C04-C09 | -2.31 | 108.17 | 112.00 |
| 38 | g | 318 | II0 | C12-C14-C10 | -2.31 | 115.33 | 120.57 |
| 38 | g | 317 | II0 | C08-C12-C14 | 2.31 | 116.45 | 111.85 |
| 29 | A | 810 | CLA | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 37 | F | 206 | LMG | O1-C7-C8 | -2.31 | 105.34 | 110.90 |
| 29 | A | 835 | CLA | C1B-CHB-C4A | -2.30 | 125.55 | 130.12 |
| 29 | f | 603 | CLA | C1B-CHB-C4A | -2.30 | 125.55 | 130.12 |
| 38 | c | 313 | II0 | C06-C08-C12 | 2.30 | 113.46 | 110.30 |
| 29 | b | 303 | CLA | C1B-CHB-C4A | -2.30 | 125.55 | 130.12 |
| 40 | i | 310 | KC2 | C2A-C1A-CHA | -2.30 | 119.83 | 127.44 |
| 38 | j | 316 | II0 | C12-C14-C10 | -2.30 | 115.35 | 120.57 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | i | 303 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 29 | f | 606 | CLA | O2A-CGA-O1A | -2.30 | 117.78 | 123.59 |
| 29 | A | 812 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 40 | c | 310 | KC2 | O2D-CGD-O1D | -2.30 | 119.34 | 123.84 |
| 29 | a | 303 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 31 | c | 320 | LHG | C27-C26-C25 | -2.30 | 102.75 | 114.42 |
| 29 | f | 602 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 40 | d | 311 | KC2 | CHB-C1B-NB | -2.30 | 122.34 | 124.45 |
| 29 | A | 810 | CLA | C1B-CHB-C4A | -2.30 | 125.57 | 130.12 |
| 40 | e | 309 | KC2 | O2D-CGD-O1D | -2.30 | 119.35 | 123.84 |
| 32 | F | 204 | WVN | C39-C40-C37 | -2.30 | 118.77 | 123.47 |
| 38 | a | 315 | II0 | C41-C42-C40 | -2.30 | 118.77 | 123.47 |
| 38 | l | 315 | II0 | C17-C04-C10 | -2.29 | 106.82 | 110.47 |
| 29 | A | 821 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 29 | O | 202 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 29 | K | 101 | CLA | CHD-C1D-ND | -2.29 | 122.35 | 124.45 |
| 29 | m | 612 | CLA | C2A-C1A-CHA | 2.29 | 127.87 | 123.86 |
| 29 | n | 607 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 29 | f | 601 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 33 | A | 849 | LMU | C1'-C2'-C3' | 2.29 | 114.77 | 110.00 |
| 29 | A | 840 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 29 | m | 608 | CLA | CHD-C1D-ND | -2.29 | 122.35 | 124.45 |
| 29 | a | 309 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 29 | B | 831 | CLA | O2A-CGA-O1A | -2.29 | 117.81 | 123.59 |
| 29 | B | 835 | CLA | O2A-CGA-O1A | -2.29 | 117.82 | 123.59 |
| 29 | j | 302 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 32 | K | 103 | WVN | C24-C22-C19 | -2.29 | 114.47 | 118.08 |
| 29 | f | 613 | CLA | C2D-C1D-ND | -2.29 | 108.42 | 110.10 |
| 29 | h | 307 | CLA | C2A-C1A-CHA | 2.29 | 127.86 | 123.86 |
| 29 | B | 825 | CLA | CHD-C1D-ND | -2.29 | 122.35 | 124.45 |
| 29 | g | 312 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 29 | c | 306 | CLA | CHB-C4A-NA | 2.29 | 127.67 | 124.51 |
| 37 | F | 208 | LMG | O6-C1-O1 | -2.28 | 104.56 | 109.97 |
| 29 | B | 827 | CLA | O2D-CGD-CBD | 2.28 | 115.33 | 111.27 |
| 36 | j | 319 | DGD | O5D-C6D-C5D | -2.28 | 104.82 | 109.05 |
| 38 | n | 618 | II0 | C05-C07-C11 | 2.28 | 113.43 | 110.30 |
| 38 | d | 316 | II0 | C29-C31-C33 | -2.28 | 116.09 | 123.22 |
| 38 | m | 615 | II0 | C32-C30-C26 | -2.28 | 119.95 | 126.58 |
| 38 | i | 313 | II0 | C05-C03-C09 | 2.28 | 114.25 | 109.62 |
| 40 | g | 315 | KC2 | CMB-C2B-C1B | 2.28 | 128.74 | 124.71 |
| 29 | e | 305 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 29 | B | 836 | CLA | O2A-CGA-O1A | -2.28 | 117.83 | 123.59 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | B | 812 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 36 | j | 319 | DGD | CFB-CEB-CDB | -2.28 | 102.84 | 114.42 |
| 29 | B | 837 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 29 | B | 821 | CLA | CHB-C4A-NA | 2.28 | 127.66 | 124.51 |
| 37 | c | 317 | LMG | C42-C41-C40 | -2.28 | 102.86 | 114.42 |
| 38 | m | 614 | II0 | C06-C08-C12 | 2.28 | 113.42 | 110.30 |
| 29 | B | 819 | CLA | CMC-C2C-C1C | -2.28 | 121.57 | 125.04 |
| 29 | g | 316 | CLA | CBC-CAC-C3C | 2.28 | 118.71 | 112.43 |
| 29 | B | 801 | CLA | C2D-C1D-ND | -2.28 | 108.43 | 110.10 |
| 29 | c | 305 | CLA | CMB-C2B-C3B | 2.28 | 128.94 | 124.68 |
| 29 | B | 834 | CLA | CHD-C1D-ND | -2.28 | 122.36 | 124.45 |
| 29 | A | 834 | CLA | C1B-CHB-C4A | -2.28 | 125.61 | 130.12 |
| 32 | B | 848 | WVN | C18-C06-C13 | 2.28 | 113.99 | 110.30 |
| 29 | B | 802 | CLA | O2D-CGD-CBD | 2.28 | 115.31 | 111.27 |
| 29 | B | 826 | CLA | O2A-CGA-O1A | -2.27 | 117.85 | 123.59 |
| 31 | f | 619 | LHG | C18-C17-C16 | -2.27 | 102.88 | 114.42 |
| 29 | j | 311 | CLA | C1B-CHB-C4A | -2.27 | 125.61 | 130.12 |
| 29 | B | 806 | CLA | C1B-CHB-C4A | -2.27 | 125.61 | 130.12 |
| 38 | d | 301 | II0 | C05-C03-C09 | 2.27 | 114.23 | 109.62 |
| 29 | m | 610 | CLA | O2A-CGA-O1A | -2.27 | 117.86 | 123.59 |
| 29 | h | 305 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 40 | k | 611 | KC2 | CHB-C4A-NA | 2.27 | 127.78 | 124.20 |
| 29 | b | 309 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 38 | j | 316 | II0 | C32-C30-C26 | -2.27 | 119.99 | 126.58 |
| 29 | B | 801 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 29 | B | 807 | CLA | O2D-CGD-CBD | 2.27 | 115.30 | 111.27 |
| 29 | k | 607 | CLA | O2A-CGA-O1A | -2.27 | 117.87 | 123.59 |
| 32 | h | 308 | WVN | C39-C40-C37 | -2.27 | 118.83 | 123.47 |
| 29 | h | 307 | CLA | C1B-CHB-C4A | -2.27 | 125.63 | 130.12 |
| 29 | A | 818 | CLA | C1-C2-C3 | -2.27 | 122.12 | 126.04 |
| 38 | e | 312 | II0 | C06-C04-C10 | 2.27 | 114.21 | 109.62 |
| 29 | l | 312 | CLA | C1B-CHB-C4A | -2.27 | 125.63 | 130.12 |
| 36 | B | 844 | DGD | C3D-C4D-C5D | -2.27 | 106.20 | 110.24 |
| 29 | l | 307 | CLA | C2A-C1A-CHA | 2.26 | 127.82 | 123.86 |
| 29 | j | 303 | CLA | O2D-CGD-CBD | 2.26 | 115.29 | 111.27 |
| 29 | A | 808 | CLA | O2A-CGA-O1A | -2.26 | 117.88 | 123.59 |
| 31 | f | 619 | LHG | C11-C10-C9 | -2.26 | 102.94 | 114.42 |
| 29 | B | 816 | CLA | O2A-CGA-O1A | -2.26 | 117.88 | 123.59 |
| 40 | i | 318 | KC2 | C2A-C1A-CHA | -2.26 | 119.96 | 127.44 |
| 29 | i | 302 | CLA | C1B-CHB-C4A | -2.26 | 125.64 | 130.12 |
| 29 | s | 402 | CLA | C2D-C1D-ND | -2.26 | 108.44 | 110.10 |
| 29 | f | 604 | CLA | C2D-C1D-ND | -2.26 | 108.44 | 110.10 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | h | 302 | CLA | C1B-CHB-C4A | -2.26 | 125.64 | 130.12 |
| 29 | l | 307 | CLA | C1B-CHB-C4A | -2.26 | 125.64 | 130.12 |
| 29 | B | 826 | CLA | CHB-C4A-NA | 2.26 | 127.63 | 124.51 |
| 29 | K | 102 | CLA | CAA-C2A-C3A | -2.26 | 108.62 | 114.26 |
| 36 | B | 844 | DGD | CBB-CAB-C9B | -2.26 | 102.97 | 114.42 |
| 32 | s | 407 | WVN | C10-C06-C13 | 2.26 | 113.95 | 110.48 |
| 31 | A | 842 | LHG | C18-C17-C16 | -2.26 | 102.97 | 114.42 |
| 29 | b | 306 | CLA | O2A-CGA-O1A | -2.26 | 117.90 | 123.59 |
| 38 | n | 615 | II0 | C12-C14-C10 | -2.25 | 115.45 | 120.57 |
| 38 | f | 615 | II0 | C17-C04-C10 | -2.25 | 106.89 | 110.47 |
| 29 | h | 306 | CLA | C1B-CHB-C4A | -2.25 | 125.65 | 130.12 |
| 39 | f | 617 | IHT | C22-C18-C07 | -2.25 | 120.88 | 127.20 |
| 29 | L | 203 | CLA | O2D-CGD-CBD | 2.25 | 115.27 | 111.27 |
| 29 | B | 830 | CLA | C2D-C1D-ND | -2.25 | 108.44 | 110.10 |
| 38 | m | 618 | II0 | C12-C14-C10 | -2.25 | 115.46 | 120.57 |
| 29 | b | 311 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | A | 839 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 36 | j | 319 | DGD | O3G-C1D-C2D | -2.25 | 104.79 | 108.30 |
| 29 | A | 808 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | i | 311 | CLA | C1B-CHB-C4A | -2.25 | 125.67 | 130.12 |
| 29 | R | 203 | CLA | O2A-C1-C2 | 2.25 | 114.54 | 108.64 |
| 38 | i | 316 | II0 | C06-C04-C10 | 2.25 | 114.17 | 109.62 |
| 38 | l | 313 | II0 | C38-C36-C34 | -2.25 | 114.54 | 118.08 |
| 29 | k | 614 | CLA | CAC-C3C-C2C | 2.25 | 131.37 | 127.53 |
| 38 | f | 614 | II0 | C11-C13-C09 | -2.25 | 115.47 | 120.57 |
| 31 | n | 619 | LHG | C27-C26-C25 | -2.24 | 103.03 | 114.42 |
| 38 | g | 317 | II0 | C16-C03-C09 | 2.24 | 114.03 | 110.47 |
| 29 | a | 302 | CLA | C2A-C1A-CHA | 2.24 | 127.78 | 123.86 |
| 29 | A | 850 | CLA | CHD-C1D-ND | -2.24 | 122.39 | 124.45 |
| 29 | j | 308 | CLA | CBC-CAC-C3C | -2.24 | 106.25 | 112.43 |
| 29 | B | 828 | CLA | CHD-C1D-ND | -2.24 | 122.39 | 124.45 |
| 29 | B | 802 | CLA | O2A-CGA-O1A | -2.24 | 117.94 | 123.59 |
| 29 | A | 832 | CLA | CHD-C1D-ND | -2.24 | 122.39 | 124.45 |
| 29 | B | 817 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 38 | k | 616 | II0 | C12-C14-C10 | -2.24 | 115.49 | 120.57 |
| 38 | a | 313 | II0 | C15-C03-C09 | -2.24 | 106.91 | 110.47 |
| 40 | n | 612 | KC2 | OBD-CAD-CBD | -2.24 | 122.69 | 125.89 |
| 32 | L | 206 | WVN | C06-C13-C20 | -2.24 | 109.44 | 115.78 |
| 29 | m | 605 | CLA | C1B-CHB-C4A | -2.24 | 125.68 | 130.12 |
| 29 | F | 201 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 29 | n | 604 | CLA | CHD-C1D-ND | -2.24 | 122.40 | 124.45 |
| 29 | A | 838 | CLA | CHD-C1D-ND | -2.24 | 122.40 | 124.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 37 | F | 208 | LMG | O3-C3-C2 | -2.24 | 105.18 | 110.35 |
| 31 | g | 301 | LHG | C27-C26-C25 | -2.24 | 103.07 | 114.42 |
| 40 | i | 318 | KC2 | CMC-C2C-C1C | 2.24 | 128.44 | 125.04 |
| 29 | B | 842 | CLA | O2A-CGA-O1A | -2.24 | 117.95 | 123.59 |
| 29 | e | 310 | CLA | C1B-CHB-C4A | -2.23 | 125.69 | 130.12 |
| 29 | B | 835 | CLA | CHB-C4A-NA | 2.23 | 127.60 | 124.51 |
| 28 | A | 801 | CL0 | C4D-CHA-C1A | 2.23 | 123.97 | 121.25 |
| 40 | n | 611 | KC2 | CHB-C1B-C2B | -2.23 | 120.80 | 125.48 |
| 38 | a | 315 | II0 | C29-C31-C33 | -2.23 | 116.25 | 123.22 |
| 31 | A | 842 | LHG | C27-C26-C25 | -2.23 | 103.09 | 114.42 |
| 37 | F | 206 | LMG | C42-C41-C40 | -2.23 | 103.09 | 114.42 |
| 38 | m | 616 | II0 | C12-C14-C10 | -2.23 | 115.50 | 120.57 |
| 38 | f | 618 | II0 | C16-C03-C09 | -2.23 | 106.92 | 110.47 |
| 37 | c | 317 | LMG | O2-C2-C1 | -2.23 | 104.63 | 110.05 |
| 32 | e | 315 | WVN | C07-C01-C02 | 2.23 | 112.92 | 109.55 |
| 29 | i | 303 | CLA | O2A-CGA-O1A | -2.23 | 117.97 | 123.59 |
| 38 | b | 317 | II0 | C41-C42-C40 | 2.23 | 128.04 | 123.47 |
| 39 | R | 204 | IHT | C05-C08-C12 | 2.23 | 113.35 | 110.30 |
| 38 | a | 313 | II0 | C05-C07-C11 | -2.23 | 107.26 | 110.30 |
| 32 | L | 205 | WVN | C10-C06-C13 | 2.23 | 113.91 | 110.48 |
| 40 | g | 314 | KC2 | O2D-CGD-O1D | -2.23 | 119.49 | 123.84 |
| 40 | k | 611 | KC2 | CHB-C1B-NB | -2.23 | 122.41 | 124.45 |
| 29 | m | 606 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 31 | L | 208 | LHG | O8-C23-O10 | -2.22 | 117.98 | 123.59 |
| 29 | k | 610 | CLA | CHA-C1A-NA | -2.22 | 121.30 | 126.40 |
| 29 | B | 823 | CLA | C2D-C1D-ND | -2.22 | 108.47 | 110.10 |
| 29 | O | 201 | CLA | CHB-C4A-NA | 2.22 | 127.59 | 124.51 |
| 36 | j | 319 | DGD | CAB-C9B-C8B | -2.22 | 103.14 | 114.42 |
| 29 | g | 307 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 38 | m | 616 | II0 | C05-C03-C09 | 2.22 | 114.12 | 109.62 |
| 29 | A | 830 | CLA | C2D-C1D-ND | -2.22 | 108.47 | 110.10 |
| 29 | b | 307 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 32 | L | 206 | WVN | C21-C15-C14 | -2.22 | 109.35 | 113.62 |
| 37 | F | 208 | LMG | O2-C2-C1 | -2.22 | 104.65 | 110.05 |
| 29 | B | 803 | CLA | CMB-C2B-C3B | 2.22 | 128.83 | 124.68 |
| 29 | h | 301 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 29 | l | 310 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 29 | j | 306 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 29 | d | 306 | CLA | O2A-CGA-O1A | -2.22 | 117.99 | 123.59 |
| 40 | k | 611 | KC2 | O2D-CGD-O1D | -2.22 | 119.50 | 123.84 |
| 29 | B | 812 | CLA | O2A-CGA-O1A | -2.22 | 118.00 | 123.59 |
| 29 | A | 819 | CLA | O2A-CGA-O1A | -2.22 | 118.00 | 123.59 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | d | 315 | II0 | C29-C31-C33 | -2.22 | 116.30 | 123.22 |
| 29 | F | 202 | CLA | C1B-CHB-C4A | -2.22 | 125.73 | 130.12 |
| 29 | K | 101 | CLA | O2D-CGD-CBD | 2.22 | 115.21 | 111.27 |
| 29 | f | 606 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 29 | n | 613 | CLA | CHB-C4A-NA | 2.22 | 127.58 | 124.51 |
| 29 | c | 308 | CLA | C1-C2-C3 | -2.22 | 122.21 | 126.04 |
| 31 | a | 301 | LHG | C27-C26-C25 | -2.22 | 103.17 | 114.42 |
| 38 | l | 314 | II0 | C06-C04-C10 | 2.21 | 114.11 | 109.62 |
| 37 | b | 319 | LMG | O3-C3-C2 | -2.21 | 105.23 | 110.35 |
| 29 | b | 311 | CLA | O2A-CGA-O1A | -2.21 | 118.00 | 123.59 |
| 29 | j | 303 | CLA | O2A-CGA-O1A | -2.21 | 118.01 | 123.59 |
| 37 | c | 317 | LMG | C38-C37-C36 | -2.21 | 103.19 | 114.42 |
| 40 | m | 611 | KC2 | CHB-C1B-NB | -2.21 | 122.42 | 124.45 |
| 29 | F | 203 | CLA | C1B-CHB-C4A | -2.21 | 125.74 | 130.12 |
| 29 | A | 817 | CLA | O2A-CGA-O1A | -2.21 | 118.01 | 123.59 |
| 29 | A | 829 | CLA | O2A-CGA-O1A | -2.21 | 118.01 | 123.59 |
| 31 | b | 318 | LHG | C18-C17-C16 | -2.21 | 103.20 | 114.42 |
| 29 | n | 610 | CLA | O2D-CGD-CBD | 2.21 | 115.20 | 111.27 |
| 37 | n | 620 | LMG | O6-C1-O1 | -2.21 | 104.74 | 109.97 |
| 29 | l | 309 | CLA | O2A-CGA-O1A | -2.21 | 118.01 | 123.59 |
| 29 | f | 607 | CLA | O2A-CGA-O1A | -2.21 | 118.01 | 123.59 |
| 29 | c | 307 | CLA | CHB-C4A-NA | 2.21 | 127.57 | 124.51 |
| 29 | A | 835 | CLA | O2D-CGD-CBD | 2.21 | 115.19 | 111.27 |
| 29 | A | 813 | CLA | O2A-CGA-O1A | -2.21 | 118.02 | 123.59 |
| 29 | O | 206 | CLA | C1B-CHB-C4A | -2.21 | 125.75 | 130.12 |
| 37 | Q | 301 | LMG | O3-C3-C2 | -2.21 | 105.25 | 110.35 |
| 38 | g | 318 | II0 | C29-C31-C33 | -2.20 | 116.34 | 123.22 |
| 38 | g | 318 | II0 | C17-C04-C10 | -2.20 | 106.97 | 110.47 |
| 29 | h | 301 | CLA | CHD-C1D-ND | -2.20 | 122.43 | 124.45 |
| 38 | g | 318 | II0 | C06-C08-C12 | -2.20 | 107.29 | 110.30 |
| 40 | g | 313 | KC2 | O2D-CGD-O1D | -2.20 | 119.53 | 123.84 |
| 31 | A | 848 | LHG | C18-C17-C16 | -2.20 | 103.25 | 114.42 |
| 37 | L | 210 | LMG | O3-C3-C2 | -2.20 | 105.26 | 110.35 |
| 29 | n | 602 | CLA | O2A-CGA-O1A | -2.20 | 118.04 | 123.59 |
| 40 | n | 611 | KC2 | CMC-C2C-C1C | 2.20 | 128.39 | 125.04 |
| 29 | b | 302 | CLA | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 29 | m | 604 | CLA | C2D-C1D-ND | -2.20 | 108.48 | 110.10 |
| 29 | s | 402 | CLA | C1-C2-C3 | -2.20 | 122.24 | 126.04 |
| 38 | d | 301 | II0 | C12-C14-C10 | -2.20 | 115.58 | 120.57 |
| 29 | A | 803 | CLA | CHD-C1D-ND | -2.20 | 122.43 | 124.45 |
| 29 | m | 606 | CLA | CHD-C1D-ND | -2.20 | 122.43 | 124.45 |
| 29 | j | 307 | CLA | CHD-C1D-ND | -2.20 | 122.43 | 124.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 32 | F | 205 | WVN | C01-C02-C05 | 2.20 | 115.35 | 111.42 |
| 29 | B | 812 | CLA | C1-C2-C3 | -2.20 | 122.24 | 126.04 |
| 32 | B | 847 | WVN | C26-C29-C31 | -2.20 | 116.36 | 123.22 |
| 29 | b | 303 | CLA | C1-C2-C3 | -2.20 | 122.24 | 126.04 |
| 29 | f | 607 | CLA | CMB-C2B-C3B | 2.20 | 128.79 | 124.68 |
| 37 | c | 318 | LMG | O2-C2-C1 | -2.20 | 104.71 | 110.05 |
| 29 | g | 323 | CLA | C1B-CHB-C4A | -2.20 | 125.77 | 130.12 |
| 37 | O | 205 | LMG | O2-C2-C1 | -2.19 | 104.71 | 110.05 |
| 29 | A | 826 | CLA | O2D-CGD-CBD | 2.19 | 115.17 | 111.27 |
| 29 | B | 824 | CLA | C1B-CHB-C4A | -2.19 | 125.77 | 130.12 |
| 29 | B | 821 | CLA | CHD-C1D-ND | -2.19 | 122.44 | 124.45 |
| 29 | O | 206 | CLA | CMB-C2B-C3B | 2.19 | 128.78 | 124.68 |
| 31 | a | 318 | LHG | C27-C26-C25 | -2.19 | 103.30 | 114.42 |
| 38 | e | 313 | II0 | C32-C30-C26 | -2.19 | 120.22 | 126.58 |
| 29 | i | 311 | CLA | C2D-C1D-ND | -2.19 | 108.49 | 110.10 |
| 29 | c | 307 | CLA | C1B-CHB-C4A | -2.19 | 125.78 | 130.12 |
| 32 | B | 848 | WVN | C21-C15-C14 | -2.19 | 109.41 | 113.62 |
| 29 | m | 605 | CLA | C2A-C1A-CHA | 2.19 | 127.69 | 123.86 |
| 32 | I | 101 | WVN | C01-C02-C11 | 2.19 | 115.47 | 112.70 |
| 38 | i | 314 | II0 | C11-C13-C09 | -2.19 | 115.61 | 120.57 |
| 29 | A | 832 | CLA | O2A-CGA-O1A | -2.19 | 118.07 | 123.59 |
| 29 | g | 302 | CLA | C2A-C1A-CHA | 2.19 | 127.68 | 123.86 |
| 29 | m | 607 | CLA | C2D-C1D-ND | -2.19 | 108.49 | 110.10 |
| 32 | R | 202 | WVN | C18-C06-C13 | -2.19 | 106.75 | 110.30 |
| 32 | B | 845 | WVN | C28-C30-C33 | -2.18 | 116.40 | 123.22 |
| 32 | A | 847 | WVN | C21-C15-C14 | -2.18 | 109.42 | 113.62 |
| 32 | M | 101 | WVN | C06-C13-C20 | -2.18 | 109.60 | 115.78 |
| 37 | O | 205 | LMG | O3-C3-C2 | -2.18 | 105.30 | 110.35 |
| 29 | b | 311 | CLA | CMB-C2B-C3B | 2.18 | 128.76 | 124.68 |
| 31 | c | 316 | LHG | O8-C23-O10 | -2.18 | 118.08 | 123.59 |
| 40 | s | 401 | KC2 | CHB-C1B-NB | -2.18 | 122.45 | 124.45 |
| 29 | B | 801 | CLA | CMB-C2B-C3B | 2.18 | 128.76 | 124.68 |
| 32 | l | 302 | WVN | C39-C40-C37 | -2.18 | 119.01 | 123.47 |
| 29 | f | 612 | CLA | C1B-CHB-C4A | -2.18 | 125.80 | 130.12 |
| 38 | e | 314 | II0 | C18-C04-C10 | -2.18 | 107.00 | 110.47 |
| 29 | d | 318 | CLA | C2A-C1A-CHA | 2.18 | 127.67 | 123.86 |
| 40 | j | 312 | KC2 | O2A-CGA-O1A | -2.18 | 118.14 | 122.67 |
| 29 | i | 306 | CLA | C1B-CHB-C4A | -2.18 | 125.80 | 130.12 |
| 29 | A | 805 | CLA | C1B-CHB-C4A | -2.18 | 125.81 | 130.12 |
| 38 | k | 617 | II0 | C04-C10-C14 | -2.18 | 119.56 | 122.63 |
| 31 | s | 408 | LHG | C27-C26-C25 | -2.18 | 103.38 | 114.42 |
| 29 | k | 606 | CLA | CHD-C1D-ND | -2.18 | 122.45 | 124.45 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | m | 615 | II0 | C12-C14-C10 | -2.18 | 115.63 | 120.57 |
| 40 | g | 313 | KC2 | C2A-C1A-CHA | -2.17 | 120.25 | 127.44 |
| 29 | n | 610 | CLA | CAA-C2A-C3A | -2.17 | 106.83 | 112.78 |
| 40 | d | 312 | KC2 | CHC-C4B-C3B | 2.17 | 128.97 | 125.26 |
| 29 | A | 829 | CLA | O2D-CGD-CBD | 2.17 | 115.13 | 111.27 |
| 40 | g | 315 | KC2 | C2A-C1A-CHA | -2.17 | 120.26 | 127.44 |
| 40 | s | 401 | KC2 | CMB-C2B-C1B | 2.17 | 128.54 | 124.71 |
| 29 | B | 806 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |
| 38 | m | 616 | II0 | C41-C42-C40 | -2.17 | 119.03 | 123.47 |
| 29 | n | 605 | CLA | C1B-CHB-C4A | -2.17 | 125.82 | 130.12 |
| 38 | d | 316 | II0 | C06-C04-C10 | 2.17 | 114.01 | 109.62 |
| 38 | f | 614 | II0 | C06-C08-C12 | 2.17 | 113.27 | 110.30 |
| 37 | F | 206 | LMG | C38-C37-C36 | -2.17 | 103.42 | 114.42 |
| 38 | f | 618 | II0 | C05-C03-C09 | 2.17 | 114.01 | 109.62 |
| 29 | j | 314 | CLA | CHD-C1D-ND | -2.17 | 122.46 | 124.45 |
| 40 | d | 312 | KC2 | CHC-C4B-NB | -2.17 | 122.46 | 124.45 |
| 29 | K | 101 | CLA | C1B-CHB-C4A | -2.17 | 125.82 | 130.12 |
| 32 | h | 308 | WVN | C06-C13-C20 | -2.17 | 109.65 | 115.78 |
| 29 | B | 826 | CLA | C2D-C1D-ND | -2.17 | 108.51 | 110.10 |
| 39 | f | 617 | IHT | C18-C22-C23 | 2.17 | 129.51 | 126.23 |
| 29 | g | 308 | CLA | CHD-C1D-ND | -2.17 | 122.46 | 124.45 |
| 29 | s | 403 | CLA | C1B-CHB-C4A | -2.17 | 125.83 | 130.12 |
| 38 | m | 615 | II0 | C06-C08-C12 | -2.17 | 107.34 | 110.30 |
| 29 | k | 610 | CLA | O2A-CGA-O1A | -2.17 | 118.13 | 123.59 |
| 29 | K | 102 | CLA | O1D-CGD-CBD | 2.16 | 128.91 | 124.48 |
| 29 | e | 311 | CLA | O2A-CGA-O1A | -2.16 | 118.13 | 123.59 |
| 29 | A | 824 | CLA | O2D-CGD-CBD | 2.16 | 115.11 | 111.27 |
| 32 | F | 204 | WVN | C24-C22-C19 | -2.16 | 114.67 | 118.08 |
| 29 | A | 804 | CLA | CAA-C2A-C1A | -2.16 | 104.89 | 111.97 |
| 31 | L | 208 | LHG | C25-C24-C23 | 2.16 | 121.48 | 113.62 |
| 29 | j | 311 | CLA | C4-C3-C5 | 2.16 | 118.90 | 115.27 |
| 29 | g | 307 | CLA | C1B-CHB-C4A | -2.16 | 125.84 | 130.12 |
| 31 | L | 208 | LHG | C18-C17-C16 | -2.16 | 103.47 | 114.42 |
| 29 | b | 313 | CLA | C1-C2-C3 | -2.16 | 122.31 | 126.04 |
| 29 | n | 607 | CLA | C2D-C1D-ND | -2.16 | 108.51 | 110.10 |
| 31 | g | 322 | LHG | C27-C26-C25 | -2.16 | 103.47 | 114.42 |
| 40 | g | 313 | KC2 | CMB-C2B-C1B | 2.16 | 128.51 | 124.71 |
| 32 | l | 316 | WVN | C19-C22-C26 | -2.16 | 115.63 | 118.94 |
| 29 | f | 612 | CLA | O2A-CGA-O1A | -2.16 | 118.15 | 123.59 |
| 40 | c | 310 | KC2 | O1D-CGD-CBD | -2.16 | 120.07 | 124.48 |
| 29 | B | 816 | CLA | C2D-C1D-ND | -2.16 | 108.52 | 110.10 |
| 29 | B | 839 | CLA | C1B-CHB-C4A | -2.16 | 125.85 | 130.12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | d | 302 | CLA | C1-C2-C3 | -2.15 | 122.32 | 126.04 |
| 29 | e | 301 | CLA | C1B-CHB-C4A | -2.15 | 125.85 | 130.12 |
| 29 | k | 614 | CLA | CMC-C2C-C1C | -2.15 | 121.76 | 125.04 |
| 29 | g | 305 | CLA | C1B-CHB-C4A | -2.15 | 125.85 | 130.12 |
| 29 | j | 305 | CLA | O2A-CGA-O1A | -2.15 | 118.16 | 123.59 |
| 40 | g | 313 | KC2 | O1D-CGD-CBD | -2.15 | 120.08 | 124.48 |
| 29 | k | 606 | CLA | O2A-CGA-O1A | -2.15 | 118.16 | 123.59 |
| 29 | B | 825 | CLA | O2D-CGD-CBD | 2.15 | 115.09 | 111.27 |
| 29 | s | 402 | CLA | O2D-CGD-CBD | 2.15 | 115.09 | 111.27 |
| 29 | e | 306 | CLA | O2A-CGA-O1A | -2.15 | 118.16 | 123.59 |
| 37 | c | 318 | LMG | C1-O6-C5 | -2.15 | 109.47 | 113.69 |
| 31 | a | 301 | LHG | C18-C17-C16 | -2.15 | 103.51 | 114.42 |
| 31 | b | 318 | LHG | C27-C26-C25 | -2.15 | 103.51 | 114.42 |
| 37 | b | 319 | LMG | O2-C2-C1 | -2.15 | 104.83 | 110.05 |
| 40 | f | 611 | KC2 | C2A-C1A-CHA | -2.15 | 120.33 | 127.44 |
| 29 | A | 826 | CLA | C1B-CHB-C4A | -2.15 | 125.86 | 130.12 |
| 29 | A | 839 | CLA | C1-C2-C3 | -2.15 | 122.33 | 126.04 |
| 29 | n | 606 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 38 | e | 312 | II0 | C11-C13-C09 | -2.15 | 115.70 | 120.57 |
| 29 | k | 603 | CLA | CHD-C1D-ND | -2.14 | 122.48 | 124.45 |
| 29 | g | 310 | CLA | O2D-CGD-CBD | 2.14 | 115.08 | 111.27 |
| 29 | B | 809 | CLA | CHB-C4A-NA | 2.14 | 127.47 | 124.51 |
| 29 | e | 310 | CLA | O2A-CGA-O1A | -2.14 | 118.19 | 123.59 |
| 40 | d | 312 | KC2 | OBD-CAD-CBD | -2.14 | 122.84 | 125.89 |
| 29 | B | 830 | CLA | C1-C2-C3 | -2.14 | 123.29 | 126.75 |
| 40 | e | 309 | KC2 | CED-O2D-CGD | 2.14 | 120.78 | 115.94 |
| 37 | c | 318 | LMG | C1-C2-C3 | -2.14 | 105.54 | 110.00 |
| 32 | R | 202 | WVN | C10-C06-C13 | 2.14 | 113.77 | 110.48 |
| 29 | m | 612 | CLA | O2A-CGA-O1A | -2.14 | 118.20 | 123.59 |
| 29 | k | 601 | CLA | CED-O2D-CGD | 2.14 | 120.77 | 115.94 |
| 29 | A | 819 | CLA | C1-O2A-CGA | 2.14 | 122.05 | 116.44 |
| 29 | R | 203 | CLA | C2A-C1A-CHA | 2.14 | 127.59 | 123.86 |
| 29 | k | 605 | CLA | C1B-CHB-C4A | -2.14 | 125.89 | 130.12 |
| 29 | j | 305 | CLA | CHD-C1D-ND | -2.14 | 122.49 | 124.45 |
| 38 | f | 615 | II0 | C06-C08-C12 | -2.14 | 107.38 | 110.30 |
| 29 | B | 830 | CLA | O2A-CGA-O1A | -2.13 | 118.20 | 123.59 |
| 38 | n | 618 | II0 | C15-C03-C09 | -2.13 | 107.08 | 110.47 |
| 38 | m | 618 | II0 | C17-C04-C10 | -2.13 | 107.08 | 110.47 |
| 29 | g | 306 | CLA | C2D-C1D-ND | -2.13 | 108.53 | 110.10 |
| 29 | A | 824 | CLA | CAA-C2A-C3A | -2.13 | 106.94 | 112.78 |
| 29 | B | 803 | CLA | C1D-ND-C4D | -2.13 | 104.82 | 106.33 |
| 29 | B | 816 | CLA | O2D-CGD-CBD | 2.13 | 115.06 | 111.27 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 31 | e | 317 | LHG | C27-C26-C25 | -2.13 | 103.61 | 114.42 |
| 37 | F | 206 | LMG | O3-C3-C2 | -2.13 | 105.42 | 110.35 |
| 29 | K | 102 | CLA | CHA-C1A-NA | -2.13 | 121.52 | 126.40 |
| 38 | j | 316 | II0 | C17-C04-C10 | -2.13 | 107.08 | 110.47 |
| 29 | A | 837 | CLA | O2D-CGD-CBD | 2.13 | 115.05 | 111.27 |
| 37 | c | 318 | LMG | O3-C3-C2 | -2.13 | 105.42 | 110.35 |
| 31 | g | 301 | LHG | C18-C17-C16 | -2.13 | 103.61 | 114.42 |
| 29 | f | 609 | CLA | O2A-CGA-O1A | -2.13 | 118.22 | 123.59 |
| 29 | A | 824 | CLA | C1B-CHB-C4A | -2.13 | 125.90 | 130.12 |
| 40 | k | 613 | KC2 | OBD-CAD-CBD | -2.13 | 122.85 | 125.89 |
| 29 | c | 308 | CLA | C4-C3-C5 | 2.13 | 118.85 | 115.27 |
| 29 | i | 307 | CLA | O2A-CGA-O1A | -2.13 | 118.22 | 123.59 |
| 38 | k | 616 | II0 | C17-C04-C10 | -2.13 | 107.09 | 110.47 |
| 29 | A | 851 | CLA | C1-C2-C3 | -2.13 | 122.36 | 126.04 |
| 38 | m | 618 | II0 | C05-C03-C09 | 2.13 | 113.93 | 109.62 |
| 29 | e | 311 | CLA | C2A-C1A-CHA | 2.12 | 127.57 | 123.86 |
| 29 | B | 829 | CLA | O2A-CGA-O1A | -2.12 | 118.23 | 123.59 |
| 38 | i | 313 | II0 | C41-C42-C40 | -2.12 | 119.12 | 123.47 |
| 29 | m | 602 | CLA | O2A-CGA-O1A | -2.12 | 118.23 | 123.59 |
| 29 | b | 313 | CLA | C1B-CHB-C4A | -2.12 | 125.91 | 130.12 |
| 40 | g | 315 | KC2 | CED-O2D-CGD | 2.12 | 120.74 | 115.94 |
| 29 | A | 826 | CLA | O2A-CGA-O1A | -2.12 | 118.24 | 123.59 |
| 29 | A | 808 | CLA | C2A-C1A-CHA | 2.12 | 127.57 | 123.86 |
| 32 | K | 103 | WVN | C06-C13-C20 | -2.12 | 109.78 | 115.78 |
| 29 | e | 302 | CLA | O2A-CGA-O1A | -2.12 | 118.24 | 123.59 |
| 29 | A | 851 | CLA | O2A-CGA-O1A | -2.12 | 118.24 | 123.59 |
| 29 | A | 825 | CLA | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 29 | k | 607 | CLA | C2D-C1D-ND | -2.12 | 108.54 | 110.10 |
| 29 | B | 823 | CLA | O2D-CGD-CBD | 2.12 | 115.03 | 111.27 |
| 29 | a | 305 | CLA | O2A-CGA-O1A | -2.12 | 118.25 | 123.59 |
| 29 | f | 605 | CLA | C1B-CHB-C4A | -2.12 | 125.92 | 130.12 |
| 40 | l | 311 | KC2 | O1D-CGD-CBD | -2.12 | 120.15 | 124.48 |
| 38 | h | 310 | II0 | C05-C03-C09 | 2.12 | 113.91 | 109.62 |
| 29 | f | 605 | CLA | C2A-C1A-CHA | 2.11 | 127.56 | 123.86 |
| 29 | B | 810 | CLA | CHD-C1D-ND | -2.11 | 122.51 | 124.45 |
| 29 | B | 841 | CLA | C2A-C1A-CHA | 2.11 | 127.55 | 123.86 |
| 29 | l | 307 | CLA | O2A-CGA-O1A | -2.11 | 118.26 | 123.59 |
| 29 | b | 313 | CLA | C2D-C1D-ND | -2.11 | 108.55 | 110.10 |
| 29 | n | 603 | CLA | O2A-CGA-O1A | -2.11 | 118.26 | 123.59 |
| 29 | c | 312 | CLA | CHB-C4A-NA | 2.11 | 127.43 | 124.51 |
| 40 | g | 315 | KC2 | CHB-C4A-NA | 2.11 | 127.53 | 124.20 |
| 29 | n | 613 | CLA | O2A-CGA-O1A | -2.11 | 118.26 | 123.59 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | g | 318 | II0 | C11-C13-C09 | -2.11 | 115.78 | 120.57 |
| 38 | n | 616 | II0 | C41-C42-C40 | -2.11 | 119.15 | 123.47 |
| 38 | e | 312 | II0 | C15-C03-C09 | -2.11 | 107.11 | 110.47 |
| 29 | g | 323 | CLA | C2A-C1A-CHA | 2.11 | 127.55 | 123.86 |
| 29 | B | 823 | CLA | O2A-CGA-O1A | -2.11 | 118.27 | 123.59 |
| 29 | A | 815 | CLA | C3A-C2A-C1A | 2.11 | 104.50 | 101.34 |
| 40 | i | 310 | KC2 | CED-O2D-CGD | 2.11 | 120.71 | 115.94 |
| 40 | k | 611 | KC2 | C2A-C1A-CHA | -2.11 | 120.47 | 127.44 |
| 32 | B | 845 | WVN | C30-C28-C25 | 2.11 | 130.32 | 127.31 |
| 31 | f | 619 | LHG | C27-C26-C25 | -2.11 | 103.72 | 114.42 |
| 37 | O | 205 | LMG | O1-C1-C2 | -2.11 | 105.01 | 108.30 |
| 38 | j | 315 | II0 | C16-C03-C09 | -2.11 | 107.12 | 110.47 |
| 29 | A | 815 | CLA | CHD-C1D-ND | -2.11 | 122.52 | 124.45 |
| 29 | l | 310 | CLA | O2A-CGA-O1A | -2.11 | 118.28 | 123.59 |
| 29 | f | 605 | CLA | CAA-C2A-C3A | -2.11 | 107.01 | 112.78 |
| 29 | F | 203 | CLA | C2A-C1A-CHA | 2.11 | 127.54 | 123.86 |
| 32 | h | 308 | WVN | C10-C06-C13 | 2.10 | 113.72 | 110.48 |
| 29 | f | 605 | CLA | O2A-CGA-O1A | -2.10 | 118.06 | 123.30 |
| 29 | h | 304 | CLA | O2A-CGA-O1A | -2.10 | 118.29 | 123.59 |
| 29 | a | 307 | CLA | O2D-CGD-CBD | 2.10 | 115.00 | 111.27 |
| 29 | A | 827 | CLA | O2A-CGA-O1A | -2.10 | 118.29 | 123.59 |
| 40 | m | 611 | KC2 | CHB-C4A-NA | 2.10 | 127.51 | 124.20 |
| 29 | A | 817 | CLA | CAC-C3C-C4C | 2.10 | 127.53 | 124.81 |
| 39 | g | 320 | IHT | C41-C40-C37 | -2.10 | 119.18 | 123.47 |
| 29 | c | 311 | CLA | O2A-CGA-O1A | -2.10 | 118.07 | 123.30 |
| 32 | h | 308 | WVN | C07-C01-C02 | 2.10 | 112.72 | 109.55 |
| 29 | d | 303 | CLA | O2A-CGA-O1A | -2.10 | 118.30 | 123.59 |
| 37 | O | 205 | LMG | C1-C2-C3 | -2.10 | 105.63 | 110.00 |
| 29 | d | 313 | CLA | CAC-C3C-C4C | 2.10 | 127.53 | 124.81 |
| 29 | i | 304 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 31 | f | 620 | LHG | C27-C26-C25 | -2.09 | 103.80 | 114.42 |
| 29 | g | 303 | CLA | CAA-C2A-C3A | -2.09 | 109.03 | 114.26 |
| 29 | e | 305 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 29 | A | 813 | CLA | C2D-C1D-ND | -2.09 | 108.56 | 110.10 |
| 29 | d | 305 | CLA | CAA-C2A-C3A | -2.09 | 107.05 | 112.78 |
| 29 | j | 309 | CLA | CHD-C1D-ND | -2.09 | 122.53 | 124.45 |
| 29 | n | 613 | CLA | C2A-C1A-CHA | 2.09 | 127.52 | 123.86 |
| 38 | a | 317 | II0 | C18-C04-C10 | -2.09 | 107.14 | 110.47 |
| 29 | B | 811 | CLA | O2A-CGA-O1A | -2.09 | 118.32 | 123.59 |
| 29 | i | 306 | CLA | CAC-C3C-C4C | 2.09 | 127.52 | 124.81 |
| 38 | J | 103 | II0 | C06-C04-C10 | 2.09 | 113.86 | 109.62 |
| 31 | m | 619 | LHG | C27-C26-C25 | -2.09 | 103.82 | 114.42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | n | 607 | CLA | O2A-CGA-O1A | -2.09 | 118.32 | 123.59 |
| 40 | g | 314 | KC2 | CHC-C4B-C3B | -2.09 | 121.69 | 125.26 |
| 40 | j | 312 | KC2 | CHC-C4B-C3B | -2.09 | 121.69 | 125.26 |
| 29 | A | 825 | CLA | CAA-C2A-C3A | -2.09 | 107.06 | 112.78 |
| 37 | n | 620 | LMG | O2-C2-C1 | -2.09 | 104.98 | 110.05 |
| 29 | g | 302 | CLA | CHD-C1D-ND | -2.09 | 122.54 | 124.45 |
| 33 | A | 849 | LMU | O1B-C4'-C3' | 2.09 | 112.83 | 107.28 |
| 29 | A | 822 | CLA | O2D-CGD-CBD | 2.09 | 114.97 | 111.27 |
| 29 | B | 821 | CLA | O2A-CGA-O1A | -2.09 | 118.33 | 123.59 |
| 29 | h | 302 | CLA | O2A-CGA-O1A | -2.08 | 118.33 | 123.59 |
| 29 | B | 803 | CLA | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 29 | e | 307 | CLA | O2A-CGA-O1A | -2.08 | 118.33 | 123.59 |
| 38 | k | 619 | II0 | C05-C03-C09 | 2.08 | 113.84 | 109.62 |
| 29 | s | 406 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 29 | m | 601 | CLA | CAA-C2A-C3A | -2.08 | 109.05 | 114.26 |
| 38 | n | 618 | II0 | C12-C14-C10 | -2.08 | 115.84 | 120.57 |
| 29 | A | 836 | CLA | CAA-CBA-CGA | -2.08 | 107.17 | 113.25 |
| 29 | g | 306 | CLA | O2A-CGA-O1A | -2.08 | 118.34 | 123.59 |
| 29 | k | 605 | CLA | O2D-CGD-CBD | 2.08 | 114.97 | 111.27 |
| 38 | a | 314 | II0 | C06-C04-C10 | 2.08 | 113.84 | 109.62 |
| 29 | A | 818 | CLA | CMC-C2C-C3C | 2.08 | 131.77 | 126.12 |
| 29 | k | 610 | CLA | C1-C2-C3 | -2.08 | 122.44 | 126.04 |
| 29 | A | 819 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 29 | k | 604 | CLA | CBC-CAC-C3C | 2.08 | 118.17 | 112.43 |
| 29 | k | 614 | CLA | CMC-C2C-C3C | 2.08 | 131.76 | 126.12 |
| 29 | j | 308 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 29 | m | 612 | CLA | CAA-CBA-CGA | -2.08 | 107.18 | 113.25 |
| 29 | m | 609 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 28 | A | 801 | CL0 | C2A-C1A-CHA | 2.08 | 127.49 | 123.86 |
| 29 | e | 304 | CLA | C1-C2-C3 | -2.08 | 122.45 | 126.04 |
| 29 | m | 602 | CLA | CHD-C1D-ND | -2.08 | 122.55 | 124.45 |
| 29 | A | 830 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 29 | c | 306 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 29 | A | 850 | CLA | C2D-C1D-ND | -2.07 | 108.58 | 110.10 |
| 29 | L | 203 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 29 | e | 306 | CLA | CHB-C4A-NA | 2.07 | 127.38 | 124.51 |
| 38 | l | 313 | II0 | C05-C07-C11 | 2.07 | 113.14 | 110.30 |
| 29 | i | 302 | CLA | O2D-CGD-CBD | 2.07 | 114.95 | 111.27 |
| 29 | A | 810 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 32 | K | 103 | WVN | C39-C40-C37 | -2.07 | 119.23 | 123.47 |
| 29 | a | 303 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 29 | h | 312 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | m | 607 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 29 | i | 312 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 29 | B | 817 | CLA | O2D-CGD-CBD | 2.07 | 114.94 | 111.27 |
| 29 | j | 314 | CLA | C2D-C1D-ND | -2.07 | 108.58 | 110.10 |
| 29 | B | 838 | CLA | O2A-CGA-O1A | -2.07 | 118.38 | 123.59 |
| 29 | A | 838 | CLA | CAA-C2A-C3A | -2.06 | 107.12 | 112.78 |
| 37 | L | 210 | LMG | O2-C2-C1 | -2.06 | 105.03 | 110.05 |
| 29 | i | 305 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 29 | m | 601 | CLA | O2D-CGD-CBD | 2.06 | 114.93 | 111.27 |
| 29 | B | 824 | CLA | O2D-CGD-CBD | 2.06 | 114.93 | 111.27 |
| 29 | a | 306 | CLA | CAC-C3C-C2C | -2.06 | 124.00 | 127.53 |
| 29 | g | 311 | CLA | O1A-CGA-CBA | 2.06 | 131.77 | 123.73 |
| 32 | I | 101 | WVN | C07-C01-C02 | 2.06 | 112.67 | 109.55 |
| 29 | g | 311 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 29 | A | 834 | CLA | O2A-CGA-O1A | -2.06 | 118.39 | 123.59 |
| 29 | B | 819 | CLA | C2D-C1D-ND | -2.06 | 108.59 | 110.10 |
| 36 | B | 844 | DGD | CAB-C9B-C8B | -2.06 | 103.97 | 114.42 |
| 29 | B | 817 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 31 | l | 318 | LHG | C27-C26-C25 | -2.06 | 103.98 | 114.42 |
| 29 | A | 831 | CLA | C1-C2-C3 | -2.06 | 122.48 | 126.04 |
| 29 | A | 839 | CLA | O2A-CGA-O1A | -2.06 | 118.40 | 123.59 |
| 29 | m | 613 | CLA | O2A-CGA-O1A | -2.06 | 118.40 | 123.59 |
| 38 | l | 315 | II0 | C29-C31-C33 | -2.06 | 116.80 | 123.22 |
| 29 | s | 402 | CLA | C2A-C1A-CHA | 2.06 | 127.45 | 123.86 |
| 29 | B | 831 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 29 | B | 840 | CLA | C1B-CHB-C4A | -2.06 | 126.05 | 130.12 |
| 29 | b | 308 | CLA | O2A-CGA-O1A | -2.06 | 118.41 | 123.59 |
| 29 | k | 608 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 29 | b | 310 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 29 | j | 306 | CLA | CHA-C1A-NA | -2.05 | 121.69 | 126.40 |
| 29 | l | 306 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 29 | B | 820 | CLA | C2D-C1D-ND | -2.05 | 108.59 | 110.10 |
| 29 | c | 302 | CLA | CED-O2D-CGD | 2.05 | 120.58 | 115.94 |
| 29 | L | 203 | CLA | CAA-C2A-C3A | -2.05 | 107.16 | 112.78 |
| 40 | k | 611 | KC2 | CMC-C2C-C1C | 2.05 | 128.16 | 125.04 |
| 29 | B | 829 | CLA | C2A-C1A-CHA | 2.05 | 127.45 | 123.86 |
| 29 | h | 307 | CLA | CAA-C2A-C3A | -2.05 | 107.16 | 112.78 |
| 29 | B | 825 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 29 | l | 301 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 37 | c | 318 | LMG | O7-C10-O9 | -2.05 | 118.75 | 123.70 |
| 29 | h | 303 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 29 | A | 836 | CLA | C2A-C1A-CHA | 2.05 | 127.44 | 123.86 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 38 | h | 311 | II0 | C32-C30-C26 | -2.05 | 120.63 | 126.58 |
| 29 | A | 831 | CLA | CMB-C2B-C3B | 2.05 | 128.51 | 124.68 |
| 31 | i | 317 | LHG | C27-C26-C25 | -2.05 | 104.03 | 114.42 |
| 29 | d | 313 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 29 | A | 833 | CLA | C4-C3-C5 | 2.05 | 118.71 | 115.27 |
| 40 | d | 311 | KC2 | CED-O2D-CGD | 2.05 | 120.57 | 115.94 |
| 29 | A | 814 | CLA | O2A-CGA-O1A | -2.05 | 118.43 | 123.59 |
| 38 | a | 315 | II0 | C06-C04-C10 | 2.05 | 113.77 | 109.62 |
| 29 | O | 202 | CLA | C1-C2-C3 | -2.05 | 122.50 | 126.04 |
| 29 | A | 828 | CLA | O2A-CGA-O1A | -2.05 | 118.43 | 123.59 |
| 33 | i | 301 | LMU | C4B-C3B-C2B | 2.05 | 114.39 | 110.82 |
| 29 | B | 829 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 29 | k | 607 | CLA | CBA-CAA-C2A | 2.05 | 119.90 | 113.86 |
| 40 | k | 612 | KC2 | OBD-CAD-CBD | -2.05 | 122.97 | 125.89 |
| 29 | A | 824 | CLA | CHA-C1A-NA | -2.04 | 121.72 | 126.40 |
| 40 | m | 611 | KC2 | O2D-CGD-O1D | -2.04 | 119.84 | 123.84 |
| 29 | B | 815 | CLA | O2D-CGD-CBD | 2.04 | 114.90 | 111.27 |
| 29 | A | 804 | CLA | C3A-C2A-C1A | 2.04 | 104.40 | 101.34 |
| 29 | f | 602 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 38 | b | 314 | II0 | C05-C03-C09 | 2.04 | 113.75 | 109.62 |
| 40 | j | 312 | KC2 | CHB-C4A-NA | 2.04 | 127.42 | 124.20 |
| 32 | B | 847 | WVN | C18-C06-C13 | -2.04 | 106.99 | 110.30 |
| 38 | b | 301 | II0 | C11-C13-C09 | -2.04 | 115.94 | 120.57 |
| 29 | a | 306 | CLA | CBC-CAC-C3C | 2.04 | 118.05 | 112.43 |
| 29 | L | 204 | CLA | O2D-CGD-CBD | 2.04 | 114.89 | 111.27 |
| 40 | l | 311 | KC2 | CHB-C1B-NB | -2.04 | 122.58 | 124.45 |
| 37 | n | 620 | LMG | O1-C1-C2 | -2.04 | 105.12 | 108.30 |
| 38 | j | 316 | II0 | C05-C07-C11 | 2.04 | 113.09 | 110.30 |
| 29 | B | 813 | CLA | C1B-CHB-C4A | -2.04 | 126.08 | 130.12 |
| 29 | n | 609 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 29 | k | 601 | CLA | O2A-CGA-O1A | -2.04 | 118.45 | 123.59 |
| 29 | A | 816 | CLA | O2A-CGA-O1A | -2.04 | 118.45 | 123.59 |
| 29 | h | 303 | CLA | O2A-CGA-O1A | -2.04 | 118.45 | 123.59 |
| 29 | d | 307 | CLA | O2A-CGA-O1A | -2.04 | 118.22 | 123.30 |
| 29 | B | 802 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 32 | R | 201 | WVN | C17-C06-C13 | 2.04 | 113.60 | 110.30 |
| 29 | j | 308 | CLA | C3C-C4C-NC | -2.04 | 108.29 | 110.57 |
| 29 | B | 835 | CLA | O2D-CGD-CBD | 2.04 | 114.89 | 111.27 |
| 29 | A | 809 | CLA | O2A-CGA-O1A | -2.04 | 118.45 | 123.59 |
| 40 | s | 401 | KC2 | CHB-C4A-NA | 2.04 | 127.41 | 124.20 |
| 29 | d | 313 | CLA | CBA-CAA-C2A | 2.04 | 119.87 | 113.86 |
| 38 | i | 314 | II0 | C32-C30-C26 | -2.04 | 120.67 | 126.58 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | e | 311 | CLA | CAA-C2A-C3A | -2.03 | 107.21 | 112.78 |
| 38 | l | 315 | II0 | C05-C03-C09 | 2.03 | 113.74 | 109.62 |
| 29 | b | 303 | CLA | CAA-CBA-CGA | -2.03 | 107.31 | 113.25 |
| 29 | k | 607 | CLA | C2A-C1A-CHA | 2.03 | 127.41 | 123.86 |
| 32 | R | 202 | WVN | C01-C02-C05 | -2.03 | 107.77 | 111.42 |
| 29 | l | 312 | CLA | O2A-CGA-O1A | -2.03 | 118.46 | 123.59 |
| 32 | I | 101 | WVN | C06-C13-C20 | -2.03 | 110.03 | 115.78 |
| 29 | s | 406 | CLA | O2D-CGD-CBD | 2.03 | 114.88 | 111.27 |
| 29 | i | 305 | CLA | O2A-CGA-O1A | -2.03 | 118.46 | 123.59 |
| 29 | i | 312 | CLA | CMC-C2C-C3C | 2.03 | 131.63 | 126.12 |
| 29 | A | 802 | CLA | O1D-CGD-CBD | 2.03 | 128.64 | 124.48 |
| 29 | n | 604 | CLA | C2A-C1A-CHA | 2.03 | 127.41 | 123.86 |
| 40 | s | 401 | KC2 | O1D-CGD-CBD | -2.03 | 120.33 | 124.48 |
| 40 | g | 313 | KC2 | CHB-C4A-NA | 2.03 | 127.40 | 124.20 |
| 29 | b | 302 | CLA | O2A-CGA-O1A | -2.03 | 118.47 | 123.59 |
| 29 | F | 201 | CLA | O2A-CGA-O1A | -2.03 | 118.47 | 123.59 |
| 29 | A | 828 | CLA | C1-C2-C3 | -2.03 | 122.54 | 126.04 |
| 29 | B | 810 | CLA | O2D-CGD-CBD | 2.03 | 114.87 | 111.27 |
| 38 | l | 313 | II0 | C18-C04-C10 | -2.03 | 107.25 | 110.47 |
| 38 | e | 313 | II0 | C04-C06-C08 | 2.03 | 118.22 | 113.64 |
| 38 | f | 618 | II0 | C17-C04-C10 | -2.03 | 107.25 | 110.47 |
| 29 | g | 308 | CLA | O2A-CGA-O1A | -2.03 | 118.48 | 123.59 |
| 29 | K | 102 | CLA | C1B-CHB-C4A | -2.02 | 126.11 | 130.12 |
| 39 | j | 317 | IHT | C09-C10-C07 | -2.02 | 119.79 | 122.73 |
| 31 | c | 320 | LHG | C18-C17-C16 | -2.02 | 104.15 | 114.42 |
| 29 | j | 305 | CLA | C2D-C1D-ND | -2.02 | 108.61 | 110.10 |
| 31 | a | 318 | LHG | C18-C17-C16 | -2.02 | 104.16 | 114.42 |
| 29 | A | 836 | CLA | O2D-CGD-CBD | 2.02 | 114.86 | 111.27 |
| 38 | a | 314 | II0 | C41-C42-C40 | -2.02 | 119.33 | 123.47 |
| 29 | l | 303 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 29 | c | 307 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 30 | A | 841 | PQN | C2M-C2-C3 | -2.02 | 121.10 | 124.40 |
| 29 | j | 314 | CLA | O2A-CGA-O1A | -2.02 | 118.49 | 123.59 |
| 29 | f | 613 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | i | 307 | CLA | CHB-C4A-NA | 2.02 | 127.30 | 124.51 |
| 29 | j | 308 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | c | 304 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 29 | a | 306 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 29 | A | 822 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | b | 313 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 29 | A | 822 | CLA | C2D-C1D-ND | -2.02 | 108.62 | 110.10 |
| 29 | A | 819 | CLA | O2D-CGD-CBD | 2.02 | 114.85 | 111.27 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 36 | j | 319 | DGD | C4E-C3E-C2E | -2.02 | 107.30 | 110.82 |
| 40 | l | 311 | KC2 | CHB-C4A-NA | 2.02 | 127.38 | 124.20 |
| 29 | h | 305 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | h | 307 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 38 | c | 313 | II0 | C06-C04-C10 | 2.02 | 113.70 | 109.62 |
| 39 | g | 320 | IHT | C40-C41-C38 | 2.02 | 127.60 | 123.47 |
| 29 | d | 313 | CLA | O2D-CGD-CBD | 2.01 | 114.85 | 111.27 |
| 29 | d | 304 | CLA | O2A-CGA-O1A | -2.01 | 118.28 | 123.30 |
| 29 | A | 823 | CLA | O2A-CGA-O1A | -2.01 | 118.51 | 123.59 |
| 29 | g | 309 | CLA | O2A-CGA-O1A | -2.01 | 118.51 | 123.59 |
| 29 | l | 308 | CLA | CHD-C1D-ND | -2.01 | 122.61 | 124.45 |
| 40 | d | 311 | KC2 | CHB-C4A-NA | 2.01 | 127.37 | 124.20 |
| 40 | g | 314 | KC2 | CHB-C4A-NA | 2.01 | 127.37 | 124.20 |
| 37 | F | 206 | LMG | O7-C10-O9 | -2.01 | 118.84 | 123.70 |
| 29 | e | 302 | CLA | CHD-C1D-ND | -2.01 | 122.61 | 124.45 |
| 31 | c | 316 | LHG | C27-C26-C25 | -2.01 | 104.22 | 114.42 |
| 29 | A | 825 | CLA | O2A-CGA-O1A | -2.01 | 118.52 | 123.59 |
| 29 | d | 305 | CLA | O2A-CGA-O1A | -2.01 | 118.52 | 123.59 |
| 29 | n | 613 | CLA | CHD-C1D-ND | -2.01 | 122.61 | 124.45 |
| 38 | O | 203 | II0 | C03-C05-C07 | 2.01 | 118.18 | 113.64 |
| 40 | f | 611 | KC2 | CHB-C4A-NA | 2.01 | 127.37 | 124.20 |
| 33 | A | 849 | LMU | O3'-C3'-C2' | -2.01 | 105.70 | 110.35 |
| 29 | K | 102 | CLA | C2A-C1A-CHA | 2.01 | 127.37 | 123.86 |
| 38 | f | 616 | II0 | C05-C03-C09 | 2.01 | 113.69 | 109.62 |
| 29 | B | 818 | CLA | C2D-C1D-ND | -2.01 | 108.62 | 110.10 |
| 29 | L | 207 | CLA | O2A-CGA-O1A | -2.01 | 118.52 | 123.59 |
| 29 | B | 814 | CLA | C2A-C1A-CHA | 2.01 | 127.37 | 123.86 |
| 29 | d | 310 | CLA | CHD-C1D-ND | -2.01 | 122.61 | 124.45 |
| 38 | e | 312 | II0 | C07-C11-C13 | 2.01 | 115.85 | 111.85 |
| 29 | f | 604 | CLA | C3A-C2A-C1A | 2.00 | 104.34 | 101.34 |
| 40 | n | 611 | KC2 | CHB-C4A-NA | 2.00 | 127.36 | 124.20 |
| 29 | B | 830 | CLA | CAA-C2A-C3A | -2.00 | 107.29 | 112.78 |
| 29 | O | 201 | CLA | O2A-CGA-O1A | -2.00 | 118.53 | 123.59 |
| 29 | g | 323 | CLA | CHA-C1A-NA | -2.00 | 121.81 | 126.40 |
| 29 | A | 806 | CLA | O2D-CGD-CBD | 2.00 | 114.83 | 111.27 |
| 29 | b | 304 | CLA | O1D-CGD-CBD | 2.00 | 128.58 | 124.48 |
| 29 | l | 305 | CLA | O2A-CGA-O1A | -2.00 | 118.53 | 123.59 |
| 29 | n | 609 | CLA | O2A-CGA-O1A | -2.00 | 118.53 | 123.59 |
| 38 | n | 616 | II0 | C18-C04-C10 | 2.00 | 113.65 | 110.47 |
| 38 | n | 616 | II0 | C17-C04-C10 | -2.00 | 107.28 | 110.47 |
| 29 | c | 309 | CLA | O2A-CGA-O1A | -2.00 | 118.31 | 123.30 |
| 29 | B | 810 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) |
|---|---|---|---|---|---|---|---|
| 29 | f | 604 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 29 | c | 303 | CLA | C2A-C1A-CHA | 2.00 | 127.36 | 123.86 |
| 29 | b | 312 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 40 | n | 611 | KC2 | CMB-C2B-C1B | 2.00 | 128.24 | 124.71 |
| 32 | s | 407 | WVN | C18-C06-C13 | 2.00 | 113.55 | 110.30 |
| 32 | F | 204 | WVN | C38-C34-C33 | -2.00 | 114.92 | 118.08 |
| 29 | l | 301 | CLA | CHD-C1D-ND | -2.00 | 122.61 | 124.45 |
| 29 | d | 318 | CLA | O2A-CGA-O1A | -2.00 | 118.31 | 123.30 |
| 38 | j | 315 | II0 | C12-C14-C10 | -2.00 | 116.03 | 120.57 |

All (255) chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 28 | A | 801 | CL0 | ND |
| 28 | A | 801 | CL0 | NA |
| 29 | A | 802 | CLA | ND |
| 29 | A | 803 | CLA | ND |
| 29 | A | 804 | CLA | ND |
| 29 | A | 805 | CLA | ND |
| 29 | A | 806 | CLA | ND |
| 29 | A | 807 | CLA | ND |
| 29 | A | 808 | CLA | ND |
| 29 | A | 809 | CLA | ND |
| 29 | A | 810 | CLA | ND |
| 29 | A | 811 | CLA | ND |
| 29 | A | 812 | CLA | ND |
| 29 | A | 813 | CLA | ND |
| 29 | A | 814 | CLA | ND |
| 29 | A | 815 | CLA | ND |
| 29 | A | 816 | CLA | ND |
| 29 | A | 817 | CLA | ND |
| 29 | A | 818 | CLA | ND |
| 29 | A | 819 | CLA | ND |
| 29 | A | 820 | CLA | ND |
| 29 | A | 821 | CLA | ND |
| 29 | A | 822 | CLA | ND |
| 29 | A | 823 | CLA | ND |
| 29 | A | 824 | CLA | ND |
| 29 | A | 825 | CLA | ND |
| 29 | A | 826 | CLA | ND |
| 29 | A | 827 | CLA | ND |
| 29 | A | 828 | CLA | ND |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 29 | A | 829 | CLA | ND |
| 29 | A | 830 | CLA | ND |
| 29 | A | 831 | CLA | ND |
| 29 | A | 832 | CLA | ND |
| 29 | A | 833 | CLA | ND |
| 29 | A | 834 | CLA | ND |
| 29 | A | 835 | CLA | ND |
| 29 | A | 836 | CLA | ND |
| 29 | A | 837 | CLA | ND |
| 29 | A | 838 | CLA | ND |
| 29 | A | 839 | CLA | ND |
| 29 | A | 840 | CLA | ND |
| 29 | A | 850 | CLA | ND |
| 29 | A | 851 | CLA | ND |
| 29 | B | 801 | CLA | ND |
| 29 | B | 802 | CLA | ND |
| 29 | B | 803 | CLA | ND |
| 29 | B | 804 | CLA | ND |
| 29 | B | 805 | CLA | ND |
| 29 | B | 806 | CLA | ND |
| 29 | B | 807 | CLA | ND |
| 29 | B | 808 | CLA | ND |
| 29 | B | 809 | CLA | ND |
| 29 | B | 810 | CLA | ND |
| 29 | B | 811 | CLA | ND |
| 29 | B | 812 | CLA | ND |
| 29 | B | 813 | CLA | ND |
| 29 | B | 814 | CLA | ND |
| 29 | B | 815 | CLA | ND |
| 29 | B | 816 | CLA | ND |
| 29 | B | 817 | CLA | ND |
| 29 | B | 818 | CLA | ND |
| 29 | B | 819 | CLA | ND |
| 29 | B | 820 | CLA | ND |
| 29 | B | 821 | CLA | ND |
| 29 | B | 822 | CLA | ND |
| 29 | B | 823 | CLA | ND |
| 29 | B | 824 | CLA | ND |
| 29 | B | 825 | CLA | ND |
| 29 | B | 826 | CLA | ND |
| 29 | B | 827 | CLA | ND |
| 29 | B | 828 | CLA | ND |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 29 | B | 829 | CLA | ND |
| 29 | B | 830 | CLA | ND |
| 29 | B | 831 | CLA | ND |
| 29 | B | 832 | CLA | ND |
| 29 | B | 833 | CLA | ND |
| 29 | B | 834 | CLA | ND |
| 29 | B | 835 | CLA | ND |
| 29 | B | 836 | CLA | ND |
| 29 | B | 837 | CLA | ND |
| 29 | B | 838 | CLA | ND |
| 29 | B | 839 | CLA | ND |
| 29 | B | 840 | CLA | ND |
| 29 | B | 841 | CLA | ND |
| 29 | B | 842 | CLA | ND |
| 29 | F | 201 | CLA | ND |
| 29 | F | 202 | CLA | ND |
| 29 | F | 203 | CLA | ND |
| 29 | J | 102 | CLA | ND |
| 29 | L | 202 | CLA | ND |
| 29 | L | 203 | CLA | ND |
| 29 | L | 204 | CLA | ND |
| 29 | L | 207 | CLA | ND |
| 29 | O | 201 | CLA | ND |
| 29 | O | 202 | CLA | ND |
| 29 | O | 206 | CLA | ND |
| 29 | K | 101 | CLA | ND |
| 29 | K | 102 | CLA | ND |
| 29 | s | 402 | CLA | ND |
| 29 | s | 403 | CLA | ND |
| 29 | s | 406 | CLA | ND |
| 29 | c | 301 | CLA | ND |
| 29 | c | 302 | CLA | ND |
| 29 | c | 303 | CLA | ND |
| 29 | c | 304 | CLA | ND |
| 29 | c | 305 | CLA | ND |
| 29 | c | 306 | CLA | ND |
| 29 | c | 307 | CLA | ND |
| 29 | c | 308 | CLA | ND |
| 29 | c | 309 | CLA | ND |
| 29 | c | 312 | CLA | ND |
| 29 | a | 302 | CLA | ND |
| 29 | a | 303 | CLA | ND |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 29 | a | 304 | CLA | ND |
| 29 | a | 305 | CLA | ND |
| 29 | a | 306 | CLA | ND |
| 29 | a | 307 | CLA | ND |
| 29 | a | 308 | CLA | ND |
| 29 | a | 309 | CLA | ND |
| 29 | a | 310 | CLA | ND |
| 29 | a | 311 | CLA | ND |
| 29 | a | 312 | CLA | ND |
| 29 | b | 302 | CLA | ND |
| 29 | b | 303 | CLA | ND |
| 29 | b | 304 | CLA | ND |
| 29 | b | 305 | CLA | ND |
| 29 | b | 306 | CLA | ND |
| 29 | b | 307 | CLA | ND |
| 29 | b | 308 | CLA | ND |
| 29 | b | 309 | CLA | ND |
| 29 | b | 310 | CLA | ND |
| 29 | b | 311 | CLA | ND |
| 29 | b | 312 | CLA | ND |
| 29 | b | 313 | CLA | ND |
| 29 | h | 301 | CLA | ND |
| 29 | h | 302 | CLA | ND |
| 29 | h | 303 | CLA | ND |
| 29 | h | 304 | CLA | ND |
| 29 | h | 305 | CLA | ND |
| 29 | h | 306 | CLA | ND |
| 29 | h | 307 | CLA | ND |
| 29 | h | 312 | CLA | ND |
| 29 | m | 601 | CLA | ND |
| 29 | m | 602 | CLA | ND |
| 29 | m | 603 | CLA | ND |
| 29 | m | 604 | CLA | ND |
| 29 | m | 605 | CLA | ND |
| 29 | m | 606 | CLA | ND |
| 29 | m | 607 | CLA | ND |
| 29 | m | 608 | CLA | ND |
| 29 | m | 609 | CLA | ND |
| 29 | m | 610 | CLA | ND |
| 29 | m | 612 | CLA | ND |
| 29 | m | 613 | CLA | ND |
| 29 | e | 301 | CLA | ND |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 29 | e | 302 | CLA | ND |
| 29 | e | 303 | CLA | ND |
| 29 | e | 304 | CLA | ND |
| 29 | e | 305 | CLA | ND |
| 29 | e | 306 | CLA | ND |
| 29 | e | 307 | CLA | ND |
| 29 | e | 308 | CLA | ND |
| 29 | e | 310 | CLA | ND |
| 29 | e | 311 | CLA | ND |
| 29 | l | 301 | CLA | ND |
| 29 | l | 303 | CLA | ND |
| 29 | l | 304 | CLA | ND |
| 29 | l | 305 | CLA | ND |
| 29 | l | 306 | CLA | ND |
| 29 | l | 307 | CLA | ND |
| 29 | l | 308 | CLA | ND |
| 29 | l | 309 | CLA | ND |
| 29 | l | 310 | CLA | ND |
| 29 | l | 312 | CLA | ND |
| 29 | k | 601 | CLA | ND |
| 29 | k | 602 | CLA | ND |
| 29 | k | 603 | CLA | ND |
| 29 | k | 604 | CLA | ND |
| 29 | k | 605 | CLA | ND |
| 29 | k | 606 | CLA | ND |
| 29 | k | 607 | CLA | ND |
| 29 | k | 608 | CLA | ND |
| 29 | k | 609 | CLA | ND |
| 29 | k | 610 | CLA | ND |
| 29 | k | 614 | CLA | ND |
| 29 | f | 601 | CLA | ND |
| 29 | f | 602 | CLA | ND |
| 29 | f | 603 | CLA | ND |
| 29 | f | 604 | CLA | ND |
| 29 | f | 605 | CLA | ND |
| 29 | f | 606 | CLA | ND |
| 29 | f | 607 | CLA | ND |
| 29 | f | 608 | CLA | ND |
| 29 | f | 609 | CLA | ND |
| 29 | f | 610 | CLA | ND |
| 29 | f | 612 | CLA | ND |
| 29 | f | 613 | CLA | ND |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 29 | i | 302 | CLA | ND |
| 29 | i | 303 | CLA | ND |
| 29 | i | 304 | CLA | ND |
| 29 | i | 306 | CLA | ND |
| 29 | i | 307 | CLA | ND |
| 29 | i | 308 | CLA | ND |
| 29 | i | 309 | CLA | ND |
| 29 | i | 311 | CLA | ND |
| 29 | i | 312 | CLA | ND |
| 29 | j | 302 | CLA | ND |
| 29 | j | 303 | CLA | ND |
| 29 | j | 304 | CLA | ND |
| 29 | j | 305 | CLA | ND |
| 29 | j | 306 | CLA | ND |
| 29 | j | 307 | CLA | ND |
| 29 | j | 308 | CLA | ND |
| 29 | j | 309 | CLA | ND |
| 29 | j | 310 | CLA | ND |
| 29 | j | 311 | CLA | ND |
| 29 | j | 313 | CLA | ND |
| 29 | j | 314 | CLA | ND |
| 29 | d | 302 | CLA | ND |
| 29 | d | 303 | CLA | ND |
| 29 | d | 304 | CLA | ND |
| 29 | d | 305 | CLA | ND |
| 29 | d | 306 | CLA | ND |
| 29 | d | 307 | CLA | ND |
| 29 | d | 308 | CLA | ND |
| 29 | d | 309 | CLA | ND |
| 29 | d | 310 | CLA | ND |
| 29 | d | 313 | CLA | ND |
| 29 | d | 318 | CLA | ND |
| 29 | g | 302 | CLA | ND |
| 29 | g | 303 | CLA | ND |
| 29 | g | 304 | CLA | ND |
| 29 | g | 305 | CLA | ND |
| 29 | g | 306 | CLA | ND |
| 29 | g | 307 | CLA | ND |
| 29 | g | 308 | CLA | ND |
| 29 | g | 309 | CLA | ND |
| 29 | g | 310 | CLA | ND |
| 29 | g | 311 | CLA | ND |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atom |
|---|---|---|---|---|
| 29 | g | 312 | CLA | ND |
| 29 | g | 316 | CLA | ND |
| 29 | g | 323 | CLA | ND |
| 29 | R | 203 | CLA | ND |
| 29 | n | 601 | CLA | ND |
| 29 | n | 602 | CLA | ND |
| 29 | n | 603 | CLA | ND |
| 29 | n | 604 | CLA | ND |
| 29 | n | 605 | CLA | ND |
| 29 | n | 606 | CLA | ND |
| 29 | n | 607 | CLA | ND |
| 29 | n | 608 | CLA | ND |
| 29 | n | 609 | CLA | ND |
| 29 | n | 610 | CLA | ND |
| 29 | n | 613 | CLA | ND |
| 29 | Q | 302 | CLA | ND |

All (4431) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 804 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 804 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 805 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 805 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 810 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 810 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 812 | CLA | C2-C3-C5-C6 |
| 29 | A | 812 | CLA | C4-C3-C5-C6 |
| 29 | A | 813 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 814 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 815 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 815 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 815 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 816 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 817 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 818 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 818 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 818 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 818 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 819 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 823 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 823 | CLA | CHA-CBD-CGD-O2D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 823 | CLA | C2-C3-C5-C6 |
| 29 | A | 823 | CLA | C4-C3-C5-C6 |
| 29 | A | 827 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 834 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 834 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 836 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 836 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 837 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 837 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 838 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 838 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 840 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 851 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 851 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 802 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 802 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 802 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 803 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 803 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 804 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 805 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 813 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 817 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 819 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 819 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 819 | CLA | C11-C10-C8-C9 |
| 29 | B | 821 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 826 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 828 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 828 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 829 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 837 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 840 | CLA | C1A-C2A-CAA-CBA |
| 29 | F | 201 | CLA | C1A-C2A-CAA-CBA |
| 29 | F | 201 | CLA | C3A-C2A-CAA-CBA |
| 29 | F | 203 | CLA | C1A-C2A-CAA-CBA |
| 29 | F | 203 | CLA | C3A-C2A-CAA-CBA |
| 29 | L | 202 | CLA | C1A-C2A-CAA-CBA |
| 29 | L | 202 | CLA | C3A-C2A-CAA-CBA |
| 29 | L | 204 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 207 | CLA | C2-C3-C5-C6 |
| 29 | O | 201 | CLA | C1A-C2A-CAA-CBA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | K | 102 | CLA | CBD-CGD-O2D-CED |
| 29 | s | 402 | CLA | C1A-C2A-CAA-CBA |
| 29 | s | 402 | CLA | CHA-CBD-CGD-O1D |
| 29 | s | 402 | CLA | CHA-CBD-CGD-O2D |
| 29 | s | 406 | CLA | C1A-C2A-CAA-CBA |
| 29 | s | 406 | CLA | C14-C13-C15-C16 |
| 29 | c | 301 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | c | 302 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 305 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 307 | CLA | C3A-C2A-CAA-CBA |
| 29 | c | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 308 | CLA | C3A-C2A-CAA-CBA |
| 29 | c | 308 | CLA | C6-C7-C8-C9 |
| 29 | c | 311 | CLA | C3A-C2A-CAA-CBA |
| 29 | c | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | c | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | c | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 312 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 312 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 303 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 303 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 305 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 305 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 305 | CLA | CAD-CBD-CGD-O1D |
| 29 | b | 305 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 307 | CLA | C12-C13-C15-C16 |
| 29 | b | 308 | CLA | C11-C10-C8-C9 |
| 29 | b | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 312 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 302 | CLA | CBD-CGD-O2D-CED |
| 29 | h | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 602 | CLA | C1A-C2A-CAA-CBA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 602 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 602 | CLA | CHA-CBD-CGD-O1D |
| 29 | m | 602 | CLA | CHA-CBD-CGD-O2D |
| 29 | m | 602 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 603 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 604 | CLA | CHA-CBD-CGD-O1D |
| 29 | m | 604 | CLA | CHA-CBD-CGD-O2D |
| 29 | m | 605 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 605 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 608 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 608 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 609 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 609 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 610 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 610 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 613 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 613 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 301 | CLA | C1A-C2A-CAA-CBA |
| 29 | e | 301 | CLA | C3A-C2A-CAA-CBA |
| 29 | e | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | e | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | e | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 307 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 304 | CLA | C1A-C2A-CAA-CBA |
| 29 | l | 304 | CLA | C3A-C2A-CAA-CBA |
| 29 | l | 306 | CLA | CHA-CBD-CGD-O1D |
| 29 | l | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | l | 308 | CLA | C3A-C2A-CAA-CBA |
| 29 | k | 601 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 602 | CLA | C1A-C2A-CAA-CBA |
| 29 | k | 602 | CLA | C3A-C2A-CAA-CBA |
| 29 | k | 604 | CLA | CHA-CBD-CGD-O1D |
| 29 | k | 604 | CLA | CHA-CBD-CGD-O2D |
| 29 | k | 609 | CLA | C1A-C2A-CAA-CBA |
| 29 | k | 609 | CLA | C3A-C2A-CAA-CBA |
| 29 | k | 609 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 609 | CLA | O1D-CGD-O2D-CED |
| 29 | k | 610 | CLA | C1A-C2A-CAA-CBA |
| 29 | k | 610 | CLA | C3A-C2A-CAA-CBA |
| 29 | k | 610 | CLA | CBD-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | k | 610 | CLA | C2-C3-C5-C6 |
| 29 | k | 614 | CLA | C1A-C2A-CAA-CBA |
| 29 | k | 614 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 601 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 601 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 602 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 602 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 602 | CLA | C4-C3-C5-C6 |
| 29 | f | 603 | CLA | C2-C3-C5-C6 |
| 29 | f | 607 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 607 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 608 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 609 | CLA | C6-C7-C8-C9 |
| 29 | f | 610 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 610 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 612 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 612 | CLA | CHA-CBD-CGD-O2D |
| 29 | f | 612 | CLA | CAD-CBD-CGD-O1D |
| 29 | i | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | i | 302 | CLA | CHA-CBD-CGD-O1D |
| 29 | i | 305 | CLA | CHA-CBD-CGD-O1D |
| 29 | i | 305 | CLA | CHA-CBD-CGD-O2D |
| 29 | i | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 306 | CLA | C3A-C2A-CAA-CBA |
| 29 | i | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 307 | CLA | C3A-C2A-CAA-CBA |
| 29 | i | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 308 | CLA | C3A-C2A-CAA-CBA |
| 29 | i | 309 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 309 | CLA | O1A-CGA-O2A-C1 |
| 29 | j | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | j | 303 | CLA | CHA-CBD-CGD-O1D |
| 29 | j | 303 | CLA | CHA-CBD-CGD-O2D |
| 29 | j | 305 | CLA | CHA-CBD-CGD-O1D |
| 29 | j | 305 | CLA | CHA-CBD-CGD-O2D |
| 29 | j | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | j | 310 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 310 | CLA | C3A-C2A-CAA-CBA |
| 29 | j | 310 | CLA | CBD-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | j | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | j | 311 | CLA | C3A-C2A-CAA-CBA |
| 29 | j | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | j | 313 | CLA | CHA-CBD-CGD-O2D |
| 29 | j | 313 | CLA | CAD-CBD-CGD-O1D |
| 29 | j | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | j | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | d | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | d | 302 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 304 | CLA | C1A-C2A-CAA-CBA |
| 29 | d | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 306 | CLA | CHA-CBD-CGD-O1D |
| 29 | d | 306 | CLA | CHA-CBD-CGD-O2D |
| 29 | d | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | d | 307 | CLA | C3A-C2A-CAA-CBA |
| 29 | d | 307 | CLA | CHA-CBD-CGD-O1D |
| 29 | d | 307 | CLA | CHA-CBD-CGD-O2D |
| 29 | d | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | d | 308 | CLA | C3A-C2A-CAA-CBA |
| 29 | d | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 310 | CLA | CHA-CBD-CGD-O1D |
| 29 | d | 310 | CLA | CHA-CBD-CGD-O2D |
| 29 | g | 302 | CLA | C6-C7-C8-C9 |
| 29 | g | 304 | CLA | C1A-C2A-CAA-CBA |
| 29 | g | 304 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 306 | CLA | CHA-CBD-CGD-O1D |
| 29 | g | 307 | CLA | C2-C3-C5-C6 |
| 29 | g | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | g | 311 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | g | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | g | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 323 | CLA | C1A-C2A-CAA-CBA |
| 29 | g | 323 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 323 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 601 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 601 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 603 | CLA | C1A-C2A-CAA-CBA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | n | 604 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 604 | CLA | C2-C3-C5-C6 |
| 29 | n | 604 | CLA | C4-C3-C5-C6 |
| 29 | n | 607 | CLA | C4-C3-C5-C6 |
| 29 | n | 608 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 608 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 610 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 610 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 613 | CLA | C1A-C2A-CAA-CBA |
| 31 | A | 842 | LHG | C3-O3-P-O5 |
| 31 | A | 843 | LHG | C3-O3-P-O5 |
| 31 | A | 848 | LHG | C4-O6-P-O5 |
| 31 | A | 848 | LHG | O9-C7-O7-C5 |
| 31 | J | 104 | LHG | C3-O3-P-O5 |
| 31 | L | 208 | LHG | C2-C3-O3-P |
| 31 | L | 208 | LHG | C3-O3-P-O4 |
| 31 | L | 209 | LHG | O1-C1-C2-C3 |
| 31 | L | 209 | LHG | C4-O6-P-O3 |
| 31 | L | 209 | LHG | C4-O6-P-O5 |
| 31 | s | 408 | LHG | C4-O6-P-O3 |
| 31 | s | 408 | LHG | C4-O6-P-O4 |
| 31 | s | 408 | LHG | C8-C7-O7-C5 |
| 31 | c | 316 | LHG | C3-O3-P-O5 |
| 31 | c | 316 | LHG | O9-C7-O7-C5 |
| 31 | c | 316 | LHG | C8-C7-O7-C5 |
| 31 | c | 320 | LHG | O1-C1-C2-O2 |
| 31 | c | 320 | LHG | C3-O3-P-O5 |
| 31 | c | 320 | LHG | C8-C7-O7-C5 |
| 31 | a | 301 | LHG | C1-C2-C3-O3 |
| 31 | a | 301 | LHG | O2-C2-C3-O3 |
| 31 | a | 301 | LHG | C3-O3-P-O4 |
| 31 | a | 301 | LHG | O9-C7-O7-C5 |
| 31 | a | 318 | LHG | O1-C1-C2-O2 |
| 31 | a | 318 | LHG | O1-C1-C2-C3 |
| 31 | a | 318 | LHG | C3-O3-P-O4 |
| 31 | a | 318 | LHG | C3-O3-P-O5 |
| 31 | b | 318 | LHG | O1-C1-C2-C3 |
| 31 | b | 318 | LHG | C1-C2-C3-O3 |
| 31 | b | 318 | LHG | C3-O3-P-O5 |
| 31 | b | 318 | LHG | C3-O3-P-O6 |
| 31 | b | 318 | LHG | C4-O6-P-O3 |
| 31 | b | 318 | LHG | C8-C7-O7-C5 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | m | 619 | LHG | C3-O3-P-O5 |
| 31 | m | 619 | LHG | O7-C5-C6-O8 |
| 31 | e | 317 | LHG | C4-O6-P-O4 |
| 31 | e | 317 | LHG | O9-C7-O7-C5 |
| 31 | e | 317 | LHG | C8-C7-O7-C5 |
| 31 | l | 318 | LHG | C3-O3-P-O6 |
| 31 | f | 619 | LHG | C4-O6-P-O3 |
| 31 | f | 619 | LHG | C4-O6-P-O4 |
| 31 | f | 619 | LHG | O9-C7-O7-C5 |
| 31 | f | 619 | LHG | C8-C7-O7-C5 |
| 31 | f | 620 | LHG | C1-C2-C3-O3 |
| 31 | f | 620 | LHG | C4-O6-P-O4 |
| 31 | i | 317 | LHG | C3-O3-P-O5 |
| 31 | i | 317 | LHG | C8-C7-O7-C5 |
| 31 | j | 318 | LHG | C4-O6-P-O3 |
| 31 | j | 318 | LHG | C4-O6-P-O5 |
| 31 | g | 301 | LHG | C3-O3-P-O4 |
| 31 | g | 322 | LHG | O9-C7-O7-C5 |
| 31 | g | 322 | LHG | C8-C7-O7-C5 |
| 31 | n | 619 | LHG | O9-C7-O7-C5 |
| 31 | n | 619 | LHG | C8-C7-O7-C5 |
| 32 | A | 844 | WVN | C19-C22-C26-C29 |
| 32 | A | 844 | WVN | C20-C23-C25-C27 |
| 32 | A | 844 | WVN | C20-C23-C25-C28 |
| 32 | A | 844 | WVN | C27-C25-C28-C30 |
| 32 | A | 844 | WVN | C25-C28-C30-C33 |
| 32 | A | 844 | WVN | C29-C31-C32-C35 |
| 32 | A | 844 | WVN | C29-C31-C32-C36 |
| 32 | A | 844 | WVN | C35-C32-C36-C39 |
| 32 | A | 844 | WVN | C38-C34-C37-C40 |
| 32 | A | 845 | WVN | C15-C13-C20-C23 |
| 32 | A | 845 | WVN | C19-C22-C26-C29 |
| 32 | A | 845 | WVN | C24-C22-C26-C29 |
| 32 | A | 845 | WVN | C27-C25-C28-C30 |
| 32 | A | 845 | WVN | C35-C32-C36-C39 |
| 32 | A | 845 | WVN | C30-C33-C34-C37 |
| 32 | A | 845 | WVN | C30-C33-C34-C38 |
| 32 | A | 845 | WVN | C38-C34-C37-C40 |
| 32 | A | 846 | WVN | C15-C13-C20-C23 |
| 32 | A | 846 | WVN | C24-C22-C26-C29 |
| 32 | A | 846 | WVN | C20-C23-C25-C28 |
| 32 | A | 846 | WVN | C23-C25-C28-C30 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | A | 846 | WVN | C27-C25-C28-C30 |
| 32 | A | 846 | WVN | C29-C31-C32-C36 |
| 32 | A | 846 | WVN | C35-C32-C36-C39 |
| 32 | A | 846 | WVN | C30-C33-C34-C37 |
| 32 | A | 846 | WVN | C38-C34-C37-C40 |
| 32 | A | 847 | WVN | C01-C02-C11-C19 |
| 32 | A | 847 | WVN | C05-C02-C11-C19 |
| 32 | A | 847 | WVN | C06-C13-C20-C23 |
| 32 | A | 847 | WVN | C11-C19-C22-C26 |
| 32 | A | 847 | WVN | C19-C22-C26-C29 |
| 32 | A | 847 | WVN | C23-C25-C28-C30 |
| 32 | A | 847 | WVN | C27-C25-C28-C30 |
| 32 | A | 847 | WVN | C35-C32-C36-C39 |
| 32 | A | 847 | WVN | C30-C33-C34-C37 |
| 32 | A | 847 | WVN | C30-C33-C34-C38 |
| 32 | A | 847 | WVN | C33-C34-C37-C40 |
| 32 | A | 854 | WVN | C15-C13-C20-C23 |
| 32 | A | 854 | WVN | C11-C19-C22-C24 |
| 32 | A | 854 | WVN | C11-C19-C22-C26 |
| 32 | A | 854 | WVN | C19-C22-C26-C29 |
| 32 | A | 854 | WVN | C20-C23-C25-C27 |
| 32 | A | 854 | WVN | C27-C25-C28-C30 |
| 32 | A | 854 | WVN | C22-C26-C29-C31 |
| 32 | A | 854 | WVN | C29-C31-C32-C35 |
| 32 | A | 854 | WVN | C29-C31-C32-C36 |
| 32 | A | 854 | WVN | C35-C32-C36-C39 |
| 32 | A | 854 | WVN | C30-C33-C34-C38 |
| 32 | A | 854 | WVN | C33-C34-C37-C40 |
| 32 | B | 845 | WVN | C01-C02-C11-C19 |
| 32 | B | 845 | WVN | C05-C02-C11-C19 |
| 32 | B | 845 | WVN | C30-C33-C34-C37 |
| 32 | B | 846 | WVN | C24-C22-C26-C29 |
| 32 | B | 846 | WVN | C27-C25-C28-C30 |
| 32 | B | 846 | WVN | C25-C28-C30-C33 |
| 32 | B | 846 | WVN | C35-C32-C36-C39 |
| 32 | B | 846 | WVN | C30-C33-C34-C37 |
| 32 | B | 846 | WVN | C38-C34-C37-C40 |
| 32 | B | 847 | WVN | C15-C13-C20-C23 |
| 32 | B | 847 | WVN | C19-C22-C26-C29 |
| 32 | B | 847 | WVN | C20-C23-C25-C27 |
| 32 | B | 847 | WVN | C20-C23-C25-C28 |
| 32 | B | 847 | WVN | C27-C25-C28-C30 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | B | 847 | WVN | C25-C28-C30-C33 |
| 32 | B | 847 | WVN | C29-C31-C32-C36 |
| 32 | B | 847 | WVN | C35-C32-C36-C39 |
| 32 | B | 847 | WVN | C30-C33-C34-C37 |
| 32 | B | 847 | WVN | C30-C33-C34-C38 |
| 32 | B | 847 | WVN | C38-C34-C37-C40 |
| 32 | B | 847 | WVN | C34-C37-C40-C39 |
| 32 | B | 848 | WVN | C15-C13-C20-C23 |
| 32 | B | 848 | WVN | C24-C22-C26-C29 |
| 32 | B | 848 | WVN | C27-C25-C28-C30 |
| 32 | B | 848 | WVN | C29-C31-C32-C35 |
| 32 | B | 848 | WVN | C35-C32-C36-C39 |
| 32 | B | 848 | WVN | C30-C33-C34-C38 |
| 32 | B | 848 | WVN | C38-C34-C37-C40 |
| 32 | B | 849 | WVN | C15-C13-C20-C23 |
| 32 | B | 849 | WVN | C11-C19-C22-C24 |
| 32 | B | 849 | WVN | C11-C19-C22-C26 |
| 32 | B | 849 | WVN | C19-C22-C26-C29 |
| 32 | B | 849 | WVN | C20-C23-C25-C28 |
| 32 | B | 849 | WVN | C27-C25-C28-C30 |
| 32 | B | 849 | WVN | C35-C32-C36-C39 |
| 32 | B | 849 | WVN | C38-C34-C37-C40 |
| 32 | F | 204 | WVN | C15-C13-C20-C23 |
| 32 | F | 204 | WVN | C24-C22-C26-C29 |
| 32 | F | 204 | WVN | C20-C23-C25-C27 |
| 32 | F | 204 | WVN | C27-C25-C28-C30 |
| 32 | F | 204 | WVN | C25-C28-C30-C33 |
| 32 | F | 204 | WVN | C31-C32-C36-C39 |
| 32 | F | 204 | WVN | C30-C33-C34-C37 |
| 32 | F | 204 | WVN | C38-C34-C37-C40 |
| 32 | F | 205 | WVN | C01-C02-C11-C19 |
| 32 | F | 205 | WVN | C15-C13-C20-C23 |
| 32 | F | 205 | WVN | C11-C19-C22-C24 |
| 32 | F | 205 | WVN | C11-C19-C22-C26 |
| 32 | F | 205 | WVN | C19-C22-C26-C29 |
| 32 | F | 205 | WVN | C24-C22-C26-C29 |
| 32 | F | 205 | WVN | C20-C23-C25-C28 |
| 32 | F | 205 | WVN | C23-C25-C28-C30 |
| 32 | F | 205 | WVN | C27-C25-C28-C30 |
| 32 | F | 205 | WVN | C29-C31-C32-C35 |
| 32 | F | 205 | WVN | C31-C32-C36-C39 |
| 32 | F | 205 | WVN | C30-C33-C34-C38 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | F | 205 | WVN | C38-C34-C37-C40 |
| 32 | F | 207 | WVN | C15-C13-C20-C23 |
| 32 | F | 207 | WVN | C11-C19-C22-C24 |
| 32 | F | 207 | WVN | C11-C19-C22-C26 |
| 32 | F | 207 | WVN | C24-C22-C26-C29 |
| 32 | F | 207 | WVN | C20-C23-C25-C27 |
| 32 | F | 207 | WVN | C20-C23-C25-C28 |
| 32 | F | 207 | WVN | C27-C25-C28-C30 |
| 32 | F | 207 | WVN | C22-C26-C29-C31 |
| 32 | F | 207 | WVN | C29-C31-C32-C36 |
| 32 | F | 207 | WVN | C35-C32-C36-C39 |
| 32 | F | 207 | WVN | C38-C34-C37-C40 |
| 32 | I | 101 | WVN | C01-C02-C11-C19 |
| 32 | I | 101 | WVN | C15-C13-C20-C23 |
| 32 | I | 101 | WVN | C11-C19-C22-C26 |
| 32 | I | 101 | WVN | C24-C22-C26-C29 |
| 32 | I | 101 | WVN | C27-C25-C28-C30 |
| 32 | I | 101 | WVN | C22-C26-C29-C31 |
| 32 | I | 101 | WVN | C35-C32-C36-C39 |
| 32 | I | 101 | WVN | C30-C33-C34-C37 |
| 32 | I | 101 | WVN | C30-C33-C34-C38 |
| 32 | I | 101 | WVN | C38-C34-C37-C40 |
| 32 | J | 101 | WVN | C15-C13-C20-C23 |
| 32 | J | 101 | WVN | C11-C19-C22-C26 |
| 32 | J | 101 | WVN | C24-C22-C26-C29 |
| 32 | J | 101 | WVN | C20-C23-C25-C27 |
| 32 | J | 101 | WVN | C27-C25-C28-C30 |
| 32 | J | 101 | WVN | C35-C32-C36-C39 |
| 32 | J | 101 | WVN | C30-C33-C34-C37 |
| 32 | J | 101 | WVN | C38-C34-C37-C40 |
| 32 | J | 101 | WVN | C34-C37-C40-C39 |
| 32 | L | 201 | WVN | C01-C02-C11-C19 |
| 32 | L | 201 | WVN | C05-C02-C11-C19 |
| 32 | L | 201 | WVN | C15-C13-C20-C23 |
| 32 | L | 201 | WVN | C11-C19-C22-C24 |
| 32 | L | 201 | WVN | C19-C22-C26-C29 |
| 32 | L | 201 | WVN | C20-C23-C25-C27 |
| 32 | L | 201 | WVN | C27-C25-C28-C30 |
| 32 | L | 201 | WVN | C29-C31-C32-C35 |
| 32 | L | 201 | WVN | C29-C31-C32-C36 |
| 32 | L | 201 | WVN | C35-C32-C36-C39 |
| 32 | L | 201 | WVN | C30-C33-C34-C37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | L | 201 | WVN | C38-C34-C37-C40 |
| 32 | L | 201 | WVN | C34-C37-C40-C39 |
| 32 | L | 205 | WVN | C11-C19-C22-C26 |
| 32 | L | 205 | WVN | C24-C22-C26-C29 |
| 32 | L | 205 | WVN | C20-C23-C25-C28 |
| 32 | L | 205 | WVN | C27-C25-C28-C30 |
| 32 | L | 205 | WVN | C29-C31-C32-C36 |
| 32 | L | 205 | WVN | C35-C32-C36-C39 |
| 32 | L | 205 | WVN | C30-C33-C34-C37 |
| 32 | L | 205 | WVN | C30-C33-C34-C38 |
| 32 | L | 205 | WVN | C38-C34-C37-C40 |
| 32 | L | 206 | WVN | C24-C22-C26-C29 |
| 32 | L | 206 | WVN | C23-C25-C28-C30 |
| 32 | L | 206 | WVN | C27-C25-C28-C30 |
| 32 | L | 206 | WVN | C22-C26-C29-C31 |
| 32 | L | 206 | WVN | C29-C31-C32-C35 |
| 32 | L | 206 | WVN | C35-C32-C36-C39 |
| 32 | L | 206 | WVN | C30-C33-C34-C38 |
| 32 | L | 206 | WVN | C38-C34-C37-C40 |
| 32 | M | 101 | WVN | C15-C13-C20-C23 |
| 32 | M | 101 | WVN | C11-C19-C22-C24 |
| 32 | M | 101 | WVN | C24-C22-C26-C29 |
| 32 | M | 101 | WVN | C20-C23-C25-C27 |
| 32 | M | 101 | WVN | C20-C23-C25-C28 |
| 32 | M | 101 | WVN | C27-C25-C28-C30 |
| 32 | M | 101 | WVN | C25-C28-C30-C33 |
| 32 | M | 101 | WVN | C29-C31-C32-C35 |
| 32 | M | 101 | WVN | C35-C32-C36-C39 |
| 32 | M | 101 | WVN | C30-C33-C34-C37 |
| 32 | M | 101 | WVN | C30-C33-C34-C38 |
| 32 | M | 101 | WVN | C33-C34-C37-C40 |
| 32 | M | 101 | WVN | C32-C36-C39-C40 |
| 32 | K | 103 | WVN | C15-C13-C20-C23 |
| 32 | K | 103 | WVN | C24-C22-C26-C29 |
| 32 | K | 103 | WVN | C20-C23-C25-C28 |
| 32 | K | 103 | WVN | C27-C25-C28-C30 |
| 32 | K | 103 | WVN | C35-C32-C36-C39 |
| 32 | K | 103 | WVN | C33-C34-C37-C40 |
| 32 | s | 405 | WVN | C20-C23-C25-C27 |
| 32 | s | 405 | WVN | C27-C25-C28-C30 |
| 32 | s | 405 | WVN | C25-C28-C30-C33 |
| 32 | s | 405 | WVN | C35-C32-C36-C39 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | s | 405 | WVN | C33-C34-C37-C40 |
| 32 | s | 407 | WVN | C15-C13-C20-C23 |
| 32 | s | 407 | WVN | C24-C22-C26-C29 |
| 32 | s | 407 | WVN | C27-C25-C28-C30 |
| 32 | s | 407 | WVN | C29-C31-C32-C35 |
| 32 | s | 407 | WVN | C35-C32-C36-C39 |
| 32 | s | 407 | WVN | C30-C33-C34-C37 |
| 32 | s | 407 | WVN | C38-C34-C37-C40 |
| 32 | h | 308 | WVN | C15-C13-C20-C23 |
| 32 | h | 308 | WVN | C11-C19-C22-C24 |
| 32 | h | 308 | WVN | C24-C22-C26-C29 |
| 32 | h | 308 | WVN | C20-C23-C25-C27 |
| 32 | h | 308 | WVN | C27-C25-C28-C30 |
| 32 | h | 308 | WVN | C29-C31-C32-C35 |
| 32 | h | 308 | WVN | C35-C32-C36-C39 |
| 32 | h | 308 | WVN | C30-C33-C34-C37 |
| 32 | h | 308 | WVN | C33-C34-C37-C40 |
| 32 | e | 315 | WVN | C19-C22-C26-C29 |
| 32 | e | 315 | WVN | C23-C25-C28-C30 |
| 32 | e | 315 | WVN | C27-C25-C28-C30 |
| 32 | e | 315 | WVN | C29-C31-C32-C36 |
| 32 | e | 315 | WVN | C35-C32-C36-C39 |
| 32 | e | 315 | WVN | C33-C34-C37-C40 |
| 32 | l | 302 | WVN | C20-C23-C25-C27 |
| 32 | l | 302 | WVN | C20-C23-C25-C28 |
| 32 | l | 302 | WVN | C27-C25-C28-C30 |
| 32 | l | 302 | WVN | C29-C31-C32-C36 |
| 32 | l | 302 | WVN | C35-C32-C36-C39 |
| 32 | l | 302 | WVN | C30-C33-C34-C37 |
| 32 | l | 302 | WVN | C30-C33-C34-C38 |
| 32 | l | 302 | WVN | C38-C34-C37-C40 |
| 32 | l | 316 | WVN | C01-C02-C11-C19 |
| 32 | l | 316 | WVN | C19-C22-C26-C29 |
| 32 | l | 316 | WVN | C24-C22-C26-C29 |
| 32 | l | 316 | WVN | C20-C23-C25-C28 |
| 32 | l | 316 | WVN | C27-C25-C28-C30 |
| 32 | l | 316 | WVN | C29-C31-C32-C35 |
| 32 | l | 316 | WVN | C35-C32-C36-C39 |
| 32 | l | 316 | WVN | C30-C33-C34-C37 |
| 32 | l | 316 | WVN | C30-C33-C34-C38 |
| 32 | l | 316 | WVN | C38-C34-C37-C40 |
| 32 | i | 315 | WVN | C19-C22-C26-C29 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | i | 315 | WVN | C24-C22-C26-C29 |
| 32 | i | 315 | WVN | C23-C25-C28-C30 |
| 32 | i | 315 | WVN | C29-C31-C32-C36 |
| 32 | i | 315 | WVN | C35-C32-C36-C39 |
| 32 | i | 315 | WVN | C38-C34-C37-C40 |
| 32 | R | 201 | WVN | C01-C02-C11-C19 |
| 32 | R | 201 | WVN | C15-C13-C20-C23 |
| 32 | R | 201 | WVN | C24-C22-C26-C29 |
| 32 | R | 201 | WVN | C27-C25-C28-C30 |
| 32 | R | 201 | WVN | C35-C32-C36-C39 |
| 32 | R | 201 | WVN | C30-C33-C34-C38 |
| 32 | R | 201 | WVN | C33-C34-C37-C40 |
| 32 | R | 202 | WVN | C06-C13-C20-C23 |
| 32 | R | 202 | WVN | C11-C19-C22-C24 |
| 32 | R | 202 | WVN | C24-C22-C26-C29 |
| 32 | R | 202 | WVN | C27-C25-C28-C30 |
| 32 | R | 202 | WVN | C25-C28-C30-C33 |
| 32 | R | 202 | WVN | C35-C32-C36-C39 |
| 32 | R | 202 | WVN | C30-C33-C34-C38 |
| 32 | R | 202 | WVN | C33-C34-C37-C40 |
| 33 | A | 849 | LMU | O5B-C1B-O1B-C4' |
| 33 | A | 849 | LMU | C2'-C1'-O1'-C1 |
| 33 | A | 849 | LMU | C2-C1-O1'-C1' |
| 33 | A | 855 | LMU | C2'-C1'-O1'-C1 |
| 33 | A | 855 | LMU | O5'-C1'-O1'-C1 |
| 33 | A | 855 | LMU | C2-C1-O1'-C1' |
| 33 | a | 319 | LMU | O5B-C1B-O1B-C4' |
| 33 | i | 301 | LMU | C2'-C1'-O1'-C1 |
| 35 | A | 853 | SQD | C2-C1-O6-C44 |
| 35 | A | 853 | SQD | O5-C1-O6-C44 |
| 35 | A | 853 | SQD | O5-C5-C6-S |
| 36 | B | 844 | DGD | O6D-C1D-O3G-C3G |
| 37 | c | 317 | LMG | O6-C1-O1-C7 |
| 37 | c | 318 | LMG | C11-C10-O7-C8 |
| 37 | Q | 301 | LMG | C2-C1-O1-C7 |
| 37 | Q | 301 | LMG | O6-C1-O1-C7 |
| 37 | Q | 301 | LMG | C11-C10-O7-C8 |
| 38 | J | 103 | II0 | C23-C25-C29-C31 |
| 38 | J | 103 | II0 | C27-C25-C29-C31 |
| 38 | J | 103 | II0 | C31-C33-C35-C37 |
| 38 | J | 103 | II0 | C31-C33-C35-C39 |
| 38 | J | 103 | II0 | C32-C34-C36-C38 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | J | 103 | II0 | C37-C35-C39-C41 |
| 38 | J | 103 | II0 | C34-C36-C40-C42 |
| 38 | O | 203 | II0 | C24-C26-C30-C32 |
| 38 | c | 313 | II0 | C23-C25-C29-C31 |
| 38 | c | 313 | II0 | C24-C26-C30-C32 |
| 38 | c | 313 | II0 | C28-C26-C30-C32 |
| 38 | c | 313 | II0 | C31-C33-C35-C37 |
| 38 | c | 313 | II0 | C31-C33-C35-C39 |
| 38 | c | 313 | II0 | C32-C34-C36-C38 |
| 38 | c | 313 | II0 | C37-C35-C39-C41 |
| 38 | c | 313 | II0 | C34-C36-C40-C42 |
| 38 | c | 314 | II0 | C32-C34-C36-C38 |
| 38 | c | 314 | II0 | C32-C34-C36-C40 |
| 38 | a | 313 | II0 | C23-C25-C29-C31 |
| 38 | a | 313 | II0 | C24-C26-C30-C32 |
| 38 | a | 313 | II0 | C31-C33-C35-C37 |
| 38 | a | 313 | II0 | C31-C33-C35-C39 |
| 38 | a | 313 | II0 | C32-C34-C36-C38 |
| 38 | a | 313 | II0 | C32-C34-C36-C40 |
| 38 | a | 313 | II0 | C37-C35-C39-C41 |
| 38 | a | 313 | II0 | C34-C36-C40-C42 |
| 38 | a | 314 | II0 | C23-C25-C29-C31 |
| 38 | a | 314 | II0 | C28-C26-C30-C32 |
| 38 | a | 314 | II0 | C25-C29-C31-C33 |
| 38 | a | 314 | II0 | C26-C30-C32-C34 |
| 38 | a | 314 | II0 | C32-C34-C36-C38 |
| 38 | a | 314 | II0 | C37-C35-C39-C41 |
| 38 | a | 314 | II0 | C34-C36-C40-C42 |
| 38 | a | 315 | II0 | C27-C25-C29-C31 |
| 38 | a | 315 | II0 | C24-C26-C30-C32 |
| 38 | a | 315 | II0 | C28-C26-C30-C32 |
| 38 | a | 315 | II0 | C26-C30-C32-C34 |
| 38 | a | 315 | II0 | C31-C33-C35-C39 |
| 38 | a | 315 | II0 | C37-C35-C39-C41 |
| 38 | a | 315 | II0 | C34-C36-C40-C42 |
| 38 | a | 317 | II0 | C23-C25-C29-C31 |
| 38 | a | 317 | II0 | C27-C25-C29-C31 |
| 38 | a | 317 | II0 | C24-C26-C30-C32 |
| 38 | a | 317 | II0 | C32-C34-C36-C38 |
| 38 | a | 317 | II0 | C37-C35-C39-C41 |
| 38 | a | 317 | II0 | C38-C36-C40-C42 |
| 38 | b | 301 | II0 | C23-C25-C29-C31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | b | 301 | II0 | C27-C25-C29-C31 |
| 38 | b | 301 | II0 | C24-C26-C30-C32 |
| 38 | b | 301 | II0 | C28-C26-C30-C32 |
| 38 | b | 301 | II0 | C31-C33-C35-C37 |
| 38 | b | 301 | II0 | C37-C35-C39-C41 |
| 38 | b | 301 | II0 | C34-C36-C40-C42 |
| 38 | b | 314 | II0 | C23-C25-C29-C31 |
| 38 | b | 314 | II0 | C27-C25-C29-C31 |
| 38 | b | 314 | II0 | C28-C26-C30-C32 |
| 38 | b | 314 | II0 | C25-C29-C31-C33 |
| 38 | b | 314 | II0 | C31-C33-C35-C39 |
| 38 | b | 314 | II0 | C37-C35-C39-C41 |
| 38 | b | 314 | II0 | C34-C36-C40-C42 |
| 38 | b | 315 | II0 | C23-C25-C29-C31 |
| 38 | b | 315 | II0 | C27-C25-C29-C31 |
| 38 | b | 315 | II0 | C28-C26-C30-C32 |
| 38 | b | 315 | II0 | C37-C35-C39-C41 |
| 38 | b | 315 | II0 | C34-C36-C40-C42 |
| 38 | b | 317 | II0 | C23-C25-C29-C31 |
| 38 | b | 317 | II0 | C31-C33-C35-C37 |
| 38 | b | 317 | II0 | C31-C33-C35-C39 |
| 38 | h | 309 | II0 | C23-C25-C29-C31 |
| 38 | h | 309 | II0 | C27-C25-C29-C31 |
| 38 | h | 309 | II0 | C31-C33-C35-C37 |
| 38 | h | 309 | II0 | C31-C33-C35-C39 |
| 38 | h | 309 | II0 | C32-C34-C36-C40 |
| 38 | h | 309 | II0 | C37-C35-C39-C41 |
| 38 | h | 309 | II0 | C34-C36-C40-C42 |
| 38 | h | 310 | II0 | C23-C25-C29-C31 |
| 38 | h | 310 | II0 | C24-C26-C30-C32 |
| 38 | h | 310 | II0 | C28-C26-C30-C32 |
| 38 | h | 310 | II0 | C32-C34-C36-C38 |
| 38 | h | 310 | II0 | C37-C35-C39-C41 |
| 38 | h | 310 | II0 | C34-C36-C40-C42 |
| 38 | h | 311 | II0 | C23-C25-C29-C31 |
| 38 | h | 311 | II0 | C27-C25-C29-C31 |
| 38 | h | 311 | II0 | C24-C26-C30-C32 |
| 38 | h | 311 | II0 | C31-C33-C35-C37 |
| 38 | h | 311 | II0 | C32-C34-C36-C38 |
| 38 | h | 311 | II0 | C32-C34-C36-C40 |
| 38 | h | 311 | II0 | C37-C35-C39-C41 |
| 38 | h | 311 | II0 | C34-C36-C40-C42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | m | 614 | II0 | C23-C25-C29-C31 |
| 38 | m | 614 | II0 | C24-C26-C30-C32 |
| 38 | m | 614 | II0 | C31-C33-C35-C37 |
| 38 | m | 614 | II0 | C31-C33-C35-C39 |
| 38 | m | 614 | II0 | C32-C34-C36-C38 |
| 38 | m | 614 | II0 | C32-C34-C36-C40 |
| 38 | m | 614 | II0 | C37-C35-C39-C41 |
| 38 | m | 614 | II0 | C38-C36-C40-C42 |
| 38 | m | 615 | II0 | C23-C25-C29-C31 |
| 38 | m | 615 | II0 | C24-C26-C30-C32 |
| 38 | m | 615 | II0 | C28-C26-C30-C32 |
| 38 | m | 615 | II0 | C26-C30-C32-C34 |
| 38 | m | 615 | II0 | C31-C33-C35-C37 |
| 38 | m | 615 | II0 | C31-C33-C35-C39 |
| 38 | m | 615 | II0 | C32-C34-C36-C38 |
| 38 | m | 615 | II0 | C32-C34-C36-C40 |
| 38 | m | 615 | II0 | C37-C35-C39-C41 |
| 38 | m | 615 | II0 | C34-C36-C40-C42 |
| 38 | m | 616 | II0 | C23-C25-C29-C31 |
| 38 | m | 616 | II0 | C24-C26-C30-C32 |
| 38 | m | 616 | II0 | C28-C26-C30-C32 |
| 38 | m | 616 | II0 | C37-C35-C39-C41 |
| 38 | m | 616 | II0 | C34-C36-C40-C42 |
| 38 | m | 618 | II0 | C23-C25-C29-C31 |
| 38 | m | 618 | II0 | C27-C25-C29-C31 |
| 38 | m | 618 | II0 | C28-C26-C30-C32 |
| 38 | m | 618 | II0 | C31-C33-C35-C37 |
| 38 | m | 618 | II0 | C33-C35-C39-C41 |
| 38 | m | 618 | II0 | C37-C35-C39-C41 |
| 38 | m | 618 | II0 | C38-C36-C40-C42 |
| 38 | e | 312 | II0 | C23-C25-C29-C31 |
| 38 | e | 312 | II0 | C24-C26-C30-C32 |
| 38 | e | 312 | II0 | C28-C26-C30-C32 |
| 38 | e | 312 | II0 | C31-C33-C35-C37 |
| 38 | e | 312 | II0 | C32-C34-C36-C38 |
| 38 | e | 312 | II0 | C33-C35-C39-C41 |
| 38 | e | 312 | II0 | C34-C36-C40-C42 |
| 38 | e | 313 | II0 | C23-C25-C29-C31 |
| 38 | e | 313 | II0 | C27-C25-C29-C31 |
| 38 | e | 313 | II0 | C24-C26-C30-C32 |
| 38 | e | 313 | II0 | C28-C26-C30-C32 |
| 38 | e | 313 | II0 | C31-C33-C35-C39 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | e | 313 | II0 | C32-C34-C36-C38 |
| 38 | e | 313 | II0 | C32-C34-C36-C40 |
| 38 | e | 313 | II0 | C37-C35-C39-C41 |
| 38 | e | 313 | II0 | C38-C36-C40-C42 |
| 38 | e | 314 | II0 | C23-C25-C29-C31 |
| 38 | e | 314 | II0 | C24-C26-C30-C32 |
| 38 | e | 314 | II0 | C28-C26-C30-C32 |
| 38 | e | 314 | II0 | C31-C33-C35-C37 |
| 38 | e | 314 | II0 | C31-C33-C35-C39 |
| 38 | e | 314 | II0 | C32-C34-C36-C38 |
| 38 | e | 314 | II0 | C32-C34-C36-C40 |
| 38 | e | 314 | II0 | C37-C35-C39-C41 |
| 38 | e | 316 | II0 | C23-C25-C29-C31 |
| 38 | e | 316 | II0 | C24-C26-C30-C32 |
| 38 | e | 316 | II0 | C28-C26-C30-C32 |
| 38 | e | 316 | II0 | C31-C33-C35-C37 |
| 38 | e | 316 | II0 | C31-C33-C35-C39 |
| 38 | e | 316 | II0 | C32-C34-C36-C38 |
| 38 | e | 316 | II0 | C32-C34-C36-C40 |
| 38 | l | 313 | II0 | C23-C25-C29-C31 |
| 38 | l | 313 | II0 | C28-C26-C30-C32 |
| 38 | l | 313 | II0 | C31-C33-C35-C37 |
| 38 | l | 313 | II0 | C32-C34-C36-C40 |
| 38 | l | 313 | II0 | C37-C35-C39-C41 |
| 38 | l | 313 | II0 | C38-C36-C40-C42 |
| 38 | l | 314 | II0 | C23-C25-C29-C31 |
| 38 | l | 314 | II0 | C28-C26-C30-C32 |
| 38 | l | 314 | II0 | C25-C29-C31-C33 |
| 38 | l | 314 | II0 | C31-C33-C35-C37 |
| 38 | l | 314 | II0 | C31-C33-C35-C39 |
| 38 | l | 314 | II0 | C37-C35-C39-C41 |
| 38 | l | 314 | II0 | C38-C36-C40-C42 |
| 38 | l | 315 | II0 | C23-C25-C29-C31 |
| 38 | l | 315 | II0 | C28-C26-C30-C32 |
| 38 | l | 315 | II0 | C32-C34-C36-C38 |
| 38 | l | 315 | II0 | C32-C34-C36-C40 |
| 38 | l | 315 | II0 | C37-C35-C39-C41 |
| 38 | l | 315 | II0 | C38-C36-C40-C42 |
| 38 | k | 615 | II0 | C23-C25-C29-C31 |
| 38 | k | 615 | II0 | C27-C25-C29-C31 |
| 38 | k | 615 | II0 | C24-C26-C30-C32 |
| 38 | k | 615 | II0 | C25-C29-C31-C33 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | k | 615 | II0 | C31-C33-C35-C39 |
| 38 | k | 615 | II0 | C32-C34-C36-C38 |
| 38 | k | 615 | II0 | C32-C34-C36-C40 |
| 38 | k | 615 | II0 | C37-C35-C39-C41 |
| 38 | k | 615 | II0 | C34-C36-C40-C42 |
| 38 | k | 615 | II0 | C38-C36-C40-C42 |
| 38 | k | 616 | II0 | C23-C25-C29-C31 |
| 38 | k | 616 | II0 | C28-C26-C30-C32 |
| 38 | k | 616 | II0 | C32-C34-C36-C38 |
| 38 | k | 616 | II0 | C32-C34-C36-C40 |
| 38 | k | 616 | II0 | C37-C35-C39-C41 |
| 38 | k | 616 | II0 | C34-C36-C40-C42 |
| 38 | k | 617 | II0 | C24-C26-C30-C32 |
| 38 | k | 618 | II0 | C23-C25-C29-C31 |
| 38 | k | 618 | II0 | C27-C25-C29-C31 |
| 38 | k | 618 | II0 | C32-C34-C36-C38 |
| 38 | k | 618 | II0 | C32-C34-C36-C40 |
| 38 | k | 619 | II0 | C23-C25-C29-C31 |
| 38 | k | 619 | II0 | C28-C26-C30-C32 |
| 38 | k | 619 | II0 | C31-C33-C35-C39 |
| 38 | k | 619 | II0 | C32-C34-C36-C38 |
| 38 | k | 619 | II0 | C32-C34-C36-C40 |
| 38 | k | 619 | II0 | C33-C35-C39-C41 |
| 38 | k | 619 | II0 | C37-C35-C39-C41 |
| 38 | k | 619 | II0 | C38-C36-C40-C42 |
| 38 | k | 620 | II0 | C23-C25-C29-C31 |
| 38 | k | 620 | II0 | C27-C25-C29-C31 |
| 38 | k | 620 | II0 | C28-C26-C30-C32 |
| 38 | k | 620 | II0 | C31-C33-C35-C37 |
| 38 | k | 620 | II0 | C31-C33-C35-C39 |
| 38 | k | 620 | II0 | C32-C34-C36-C38 |
| 38 | k | 620 | II0 | C32-C34-C36-C40 |
| 38 | k | 620 | II0 | C37-C35-C39-C41 |
| 38 | k | 620 | II0 | C34-C36-C40-C42 |
| 38 | f | 614 | II0 | C23-C25-C29-C31 |
| 38 | f | 614 | II0 | C27-C25-C29-C31 |
| 38 | f | 614 | II0 | C24-C26-C30-C32 |
| 38 | f | 614 | II0 | C28-C26-C30-C32 |
| 38 | f | 614 | II0 | C26-C30-C32-C34 |
| 38 | f | 614 | II0 | C37-C35-C39-C41 |
| 38 | f | 614 | II0 | C34-C36-C40-C42 |
| 38 | f | 615 | II0 | C23-C25-C29-C31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | f | 615 | II0 | C24-C26-C30-C32 |
| 38 | f | 615 | II0 | C28-C26-C30-C32 |
| 38 | f | 615 | II0 | C31-C33-C35-C37 |
| 38 | f | 615 | II0 | C31-C33-C35-C39 |
| 38 | f | 615 | II0 | C32-C34-C36-C38 |
| 38 | f | 615 | II0 | C32-C34-C36-C40 |
| 38 | f | 615 | II0 | C37-C35-C39-C41 |
| 38 | f | 615 | II0 | C34-C36-C40-C42 |
| 38 | f | 616 | II0 | C23-C25-C29-C31 |
| 38 | f | 616 | II0 | C27-C25-C29-C31 |
| 38 | f | 616 | II0 | C28-C26-C30-C32 |
| 38 | f | 616 | II0 | C31-C33-C35-C37 |
| 38 | f | 616 | II0 | C32-C34-C36-C38 |
| 38 | f | 616 | II0 | C32-C34-C36-C40 |
| 38 | f | 616 | II0 | C37-C35-C39-C41 |
| 38 | f | 616 | II0 | C34-C36-C40-C42 |
| 38 | f | 618 | II0 | C23-C25-C29-C31 |
| 38 | f | 618 | II0 | C27-C25-C29-C31 |
| 38 | f | 618 | II0 | C28-C26-C30-C32 |
| 38 | f | 618 | II0 | C31-C33-C35-C37 |
| 38 | f | 618 | II0 | C31-C33-C35-C39 |
| 38 | f | 618 | II0 | C32-C34-C36-C38 |
| 38 | f | 618 | II0 | C32-C34-C36-C40 |
| 38 | f | 618 | II0 | C37-C35-C39-C41 |
| 38 | f | 618 | II0 | C34-C36-C40-C42 |
| 38 | i | 313 | II0 | C23-C25-C29-C31 |
| 38 | i | 313 | II0 | C28-C26-C30-C32 |
| 38 | i | 313 | II0 | C31-C33-C35-C39 |
| 38 | i | 313 | II0 | C37-C35-C39-C41 |
| 38 | i | 313 | II0 | C34-C36-C40-C42 |
| 38 | i | 314 | II0 | C23-C25-C29-C31 |
| 38 | i | 314 | II0 | C24-C26-C30-C32 |
| 38 | i | 314 | II0 | C37-C35-C39-C41 |
| 38 | i | 314 | II0 | C38-C36-C40-C42 |
| 38 | i | 316 | II0 | C23-C25-C29-C31 |
| 38 | i | 316 | II0 | C24-C26-C30-C32 |
| 38 | i | 316 | II0 | C32-C34-C36-C40 |
| 38 | i | 316 | II0 | C37-C35-C39-C41 |
| 38 | i | 316 | II0 | C34-C36-C40-C42 |
| 38 | i | 319 | II0 | C23-C25-C29-C31 |
| 38 | i | 319 | II0 | C28-C26-C30-C32 |
| 38 | i | 319 | II0 | C25-C29-C31-C33 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | i | 319 | II0 | C26-C30-C32-C34 |
| 38 | i | 319 | II0 | C31-C33-C35-C37 |
| 38 | i | 319 | II0 | C37-C35-C39-C41 |
| 38 | i | 319 | II0 | C38-C36-C40-C42 |
| 38 | j | 301 | II0 | C23-C25-C29-C31 |
| 38 | j | 301 | II0 | C27-C25-C29-C31 |
| 38 | j | 301 | II0 | C24-C26-C30-C32 |
| 38 | j | 301 | II0 | C31-C33-C35-C37 |
| 38 | j | 301 | II0 | C32-C34-C36-C38 |
| 38 | j | 301 | II0 | C37-C35-C39-C41 |
| 38 | j | 301 | II0 | C38-C36-C40-C42 |
| 38 | j | 315 | II0 | C23-C25-C29-C31 |
| 38 | j | 315 | II0 | C28-C26-C30-C32 |
| 38 | j | 315 | II0 | C25-C29-C31-C33 |
| 38 | j | 315 | II0 | C32-C34-C36-C38 |
| 38 | j | 315 | II0 | C32-C34-C36-C40 |
| 38 | j | 315 | II0 | C37-C35-C39-C41 |
| 38 | j | 315 | II0 | C34-C36-C40-C42 |
| 38 | j | 316 | II0 | C23-C25-C29-C31 |
| 38 | j | 316 | II0 | C24-C26-C30-C32 |
| 38 | j | 316 | II0 | C28-C26-C30-C32 |
| 38 | j | 316 | II0 | C31-C33-C35-C37 |
| 38 | j | 316 | II0 | C31-C33-C35-C39 |
| 38 | j | 316 | II0 | C32-C34-C36-C38 |
| 38 | j | 316 | II0 | C32-C34-C36-C40 |
| 38 | j | 316 | II0 | C37-C35-C39-C41 |
| 38 | j | 316 | II0 | C34-C36-C40-C42 |
| 38 | d | 301 | II0 | C23-C25-C29-C31 |
| 38 | d | 301 | II0 | C28-C26-C30-C32 |
| 38 | d | 301 | II0 | C31-C33-C35-C37 |
| 38 | d | 301 | II0 | C31-C33-C35-C39 |
| 38 | d | 301 | II0 | C32-C34-C36-C38 |
| 38 | d | 301 | II0 | C32-C34-C36-C40 |
| 38 | d | 301 | II0 | C37-C35-C39-C41 |
| 38 | d | 301 | II0 | C38-C36-C40-C42 |
| 38 | d | 314 | II0 | C26-C30-C32-C34 |
| 38 | d | 314 | II0 | C32-C34-C36-C38 |
| 38 | d | 314 | II0 | C32-C34-C36-C40 |
| 38 | d | 315 | II0 | C27-C25-C29-C31 |
| 38 | d | 315 | II0 | C28-C26-C30-C32 |
| 38 | d | 315 | II0 | C31-C33-C35-C37 |
| 38 | d | 315 | II0 | C32-C34-C36-C40 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | d | 315 | II0 | C37-C35-C39-C41 |
| 38 | d | 315 | II0 | C38-C36-C40-C42 |
| 38 | d | 316 | II0 | C23-C25-C29-C31 |
| 38 | d | 316 | II0 | C27-C25-C29-C31 |
| 38 | d | 316 | II0 | C28-C26-C30-C32 |
| 38 | d | 316 | II0 | C31-C33-C35-C37 |
| 38 | d | 316 | II0 | C32-C34-C36-C38 |
| 38 | d | 316 | II0 | C37-C35-C39-C41 |
| 38 | d | 316 | II0 | C34-C36-C40-C42 |
| 38 | d | 317 | II0 | C23-C25-C29-C31 |
| 38 | d | 317 | II0 | C27-C25-C29-C31 |
| 38 | d | 317 | II0 | C28-C26-C30-C32 |
| 38 | d | 317 | II0 | C26-C30-C32-C34 |
| 38 | d | 317 | II0 | C31-C33-C35-C39 |
| 38 | d | 317 | II0 | C32-C34-C36-C40 |
| 38 | d | 317 | II0 | C33-C35-C39-C41 |
| 38 | d | 317 | II0 | C37-C35-C39-C41 |
| 38 | d | 317 | II0 | C38-C36-C40-C42 |
| 38 | d | 319 | II0 | C23-C25-C29-C31 |
| 38 | d | 319 | II0 | C27-C25-C29-C31 |
| 38 | d | 319 | II0 | C32-C34-C36-C38 |
| 38 | d | 319 | II0 | C32-C34-C36-C40 |
| 38 | g | 317 | II0 | C23-C25-C29-C31 |
| 38 | g | 317 | II0 | C27-C25-C29-C31 |
| 38 | g | 317 | II0 | C28-C26-C30-C32 |
| 38 | g | 317 | II0 | C26-C30-C32-C34 |
| 38 | g | 317 | II0 | C32-C34-C36-C40 |
| 38 | g | 317 | II0 | C37-C35-C39-C41 |
| 38 | g | 317 | II0 | C34-C36-C40-C42 |
| 38 | g | 318 | II0 | C23-C25-C29-C31 |
| 38 | g | 318 | II0 | C28-C26-C30-C32 |
| 38 | g | 318 | II0 | C31-C33-C35-C37 |
| 38 | g | 318 | II0 | C31-C33-C35-C39 |
| 38 | g | 318 | II0 | C32-C34-C36-C38 |
| 38 | g | 318 | II0 | C32-C34-C36-C40 |
| 38 | g | 318 | II0 | C37-C35-C39-C41 |
| 38 | g | 318 | II0 | C34-C36-C40-C42 |
| 38 | g | 319 | II0 | C23-C25-C29-C31 |
| 38 | g | 319 | II0 | C24-C26-C30-C32 |
| 38 | g | 319 | II0 | C28-C26-C30-C32 |
| 38 | g | 319 | II0 | C37-C35-C39-C41 |
| 38 | g | 319 | II0 | C34-C36-C40-C42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | g | 321 | II0 | C26-C30-C32-C34 |
| 38 | g | 321 | II0 | C32-C34-C36-C38 |
| 38 | g | 321 | II0 | C32-C34-C36-C40 |
| 38 | n | 614 | II0 | C23-C25-C29-C31 |
| 38 | n | 614 | II0 | C27-C25-C29-C31 |
| 38 | n | 614 | II0 | C26-C30-C32-C34 |
| 38 | n | 614 | II0 | C31-C33-C35-C37 |
| 38 | n | 614 | II0 | C31-C33-C35-C39 |
| 38 | n | 614 | II0 | C32-C34-C36-C38 |
| 38 | n | 614 | II0 | C32-C34-C36-C40 |
| 38 | n | 615 | II0 | C23-C25-C29-C31 |
| 38 | n | 615 | II0 | C27-C25-C29-C31 |
| 38 | n | 615 | II0 | C28-C26-C30-C32 |
| 38 | n | 615 | II0 | C26-C30-C32-C34 |
| 38 | n | 615 | II0 | C31-C33-C35-C37 |
| 38 | n | 615 | II0 | C32-C34-C36-C38 |
| 38 | n | 615 | II0 | C32-C34-C36-C40 |
| 38 | n | 615 | II0 | C37-C35-C39-C41 |
| 38 | n | 615 | II0 | C34-C36-C40-C42 |
| 38 | n | 616 | II0 | C23-C25-C29-C31 |
| 38 | n | 616 | II0 | C27-C25-C29-C31 |
| 38 | n | 616 | II0 | C24-C26-C30-C32 |
| 38 | n | 616 | II0 | C31-C33-C35-C39 |
| 38 | n | 616 | II0 | C32-C34-C36-C38 |
| 38 | n | 616 | II0 | C32-C34-C36-C40 |
| 38 | n | 616 | II0 | C37-C35-C39-C41 |
| 38 | n | 616 | II0 | C34-C36-C40-C42 |
| 38 | n | 618 | II0 | C23-C25-C29-C31 |
| 38 | n | 618 | II0 | C28-C26-C30-C32 |
| 38 | n | 618 | II0 | C25-C29-C31-C33 |
| 38 | n | 618 | II0 | C26-C30-C32-C34 |
| 38 | n | 618 | II0 | C32-C34-C36-C40 |
| 38 | n | 618 | II0 | C37-C35-C39-C41 |
| 38 | n | 618 | II0 | C34-C36-C40-C42 |
| 39 | O | 204 | IHT | C02-C07-C18-C22 |
| 39 | O | 204 | IHT | C10-C07-C18-C22 |
| 39 | O | 204 | IHT | C24-C26-C29-C31 |
| 39 | c | 315 | IHT | C26-C29-C31-C34 |
| 39 | c | 315 | IHT | C31-C34-C35-C38 |
| 39 | c | 315 | IHT | C31-C34-C35-C39 |
| 39 | c | 319 | IHT | C11-C21-C24-C26 |
| 39 | c | 319 | IHT | C26-C29-C31-C34 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 39 | c | 319 | IHT | C31-C34-C35-C38 |
| 39 | c | 319 | IHT | C31-C34-C35-C39 |
| 39 | a | 316 | IHT | C02-C07-C18-C22 |
| 39 | a | 316 | IHT | C24-C26-C29-C31 |
| 39 | a | 316 | IHT | C28-C26-C29-C31 |
| 39 | b | 316 | IHT | C24-C26-C29-C31 |
| 39 | b | 316 | IHT | C31-C34-C35-C38 |
| 39 | b | 316 | IHT | C31-C34-C35-C39 |
| 39 | f | 617 | IHT | C18-C22-C23-C25 |
| 39 | f | 617 | IHT | C18-C22-C23-C27 |
| 39 | j | 317 | IHT | C18-C22-C23-C25 |
| 39 | j | 317 | IHT | C18-C22-C23-C27 |
| 39 | g | 320 | IHT | C24-C26-C29-C31 |
| 39 | g | 320 | IHT | C31-C34-C35-C38 |
| 39 | g | 320 | IHT | C31-C34-C35-C39 |
| 39 | g | 324 | IHT | C11-C21-C24-C26 |
| 39 | g | 324 | IHT | C24-C26-C29-C31 |
| 39 | g | 324 | IHT | C28-C26-C29-C31 |
| 39 | n | 617 | IHT | C02-C07-C18-C22 |
| 39 | n | 617 | IHT | C10-C07-C18-C22 |
| 39 | n | 617 | IHT | C26-C29-C31-C34 |
| 39 | n | 617 | IHT | C31-C34-C35-C38 |
| 40 | s | 401 | KC2 | C3A-C2A-CAA-CBA |
| 40 | s | 401 | KC2 | C2C-C3C-CAC-CBC |
| 40 | s | 401 | KC2 | C4C-C3C-CAC-CBC |
| 40 | s | 401 | KC2 | C2A-CAA-CBA-CGA |
| 40 | s | 404 | KC2 | C3A-C2A-CAA-CBA |
| 40 | c | 310 | KC2 | C3A-C2A-CAA-CBA |
| 40 | c | 310 | KC2 | C2C-C3C-CAC-CBC |
| 40 | c | 310 | KC2 | C4C-C3C-CAC-CBC |
| 40 | c | 310 | KC2 | C2A-CAA-CBA-CGA |
| 40 | c | 310 | KC2 | CBD-CGD-O2D-CED |
| 40 | m | 611 | KC2 | C3A-C2A-CAA-CBA |
| 40 | m | 611 | KC2 | C2C-C3C-CAC-CBC |
| 40 | m | 611 | KC2 | C4C-C3C-CAC-CBC |
| 40 | m | 611 | KC2 | C2A-CAA-CBA-CGA |
| 40 | e | 309 | KC2 | C3A-C2A-CAA-CBA |
| 40 | e | 309 | KC2 | C2A-CAA-CBA-CGA |
| 40 | l | 311 | KC2 | C3A-C2A-CAA-CBA |
| 40 | l | 311 | KC2 | C2A-CAA-CBA-CGA |
| 40 | l | 311 | KC2 | CHA-CBD-CGD-O2D |
| 40 | k | 611 | KC2 | C3A-C2A-CAA-CBA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 40 | k | 611 | KC2 | C2C-C3C-CAC-CBC |
| 40 | k | 611 | KC2 | C4C-C3C-CAC-CBC |
| 40 | k | 611 | KC2 | C2A-CAA-CBA-CGA |
| 40 | k | 611 | KC2 | CBD-CGD-O2D-CED |
| 40 | k | 612 | KC2 | C1A-C2A-CAA-CBA |
| 40 | k | 612 | KC2 | C3A-C2A-CAA-CBA |
| 40 | k | 612 | KC2 | C2B-C3B-CAB-CBB |
| 40 | k | 612 | KC2 | C4B-C3B-CAB-CBB |
| 40 | k | 612 | KC2 | C2C-C3C-CAC-CBC |
| 40 | k | 613 | KC2 | C1A-C2A-CAA-CBA |
| 40 | k | 613 | KC2 | C3A-C2A-CAA-CBA |
| 40 | k | 613 | KC2 | C2C-C3C-CAC-CBC |
| 40 | k | 613 | KC2 | C4C-C3C-CAC-CBC |
| 40 | k | 613 | KC2 | C2A-CAA-CBA-CGA |
| 40 | f | 611 | KC2 | C3A-C2A-CAA-CBA |
| 40 | f | 611 | KC2 | C2C-C3C-CAC-CBC |
| 40 | f | 611 | KC2 | C4C-C3C-CAC-CBC |
| 40 | f | 611 | KC2 | C2A-CAA-CBA-CGA |
| 40 | i | 310 | KC2 | C3A-C2A-CAA-CBA |
| 40 | i | 310 | KC2 | C2C-C3C-CAC-CBC |
| 40 | i | 310 | KC2 | C4C-C3C-CAC-CBC |
| 40 | i | 310 | KC2 | C2A-CAA-CBA-CGA |
| 40 | i | 318 | KC2 | C3A-C2A-CAA-CBA |
| 40 | i | 318 | KC2 | C2C-C3C-CAC-CBC |
| 40 | i | 318 | KC2 | C2A-CAA-CBA-CGA |
| 40 | i | 318 | KC2 | CBD-CGD-O2D-CED |
| 40 | j | 312 | KC2 | C3A-C2A-CAA-CBA |
| 40 | j | 312 | KC2 | C2A-CAA-CBA-CGA |
| 40 | j | 312 | KC2 | CBD-CGD-O2D-CED |
| 40 | d | 311 | KC2 | C3A-C2A-CAA-CBA |
| 40 | d | 311 | KC2 | C2A-CAA-CBA-CGA |
| 40 | d | 311 | KC2 | CBD-CGD-O2D-CED |
| 40 | d | 312 | KC2 | C1A-C2A-CAA-CBA |
| 40 | d | 312 | KC2 | C3A-C2A-CAA-CBA |
| 40 | d | 312 | KC2 | C2C-C3C-CAC-CBC |
| 40 | d | 312 | KC2 | C4C-C3C-CAC-CBC |
| 40 | g | 313 | KC2 | C2C-C3C-CAC-CBC |
| 40 | g | 313 | KC2 | C4C-C3C-CAC-CBC |
| 40 | g | 313 | KC2 | C2A-CAA-CBA-CGA |
| 40 | g | 314 | KC2 | CAA-CBA-CGA-O2A |
| 40 | g | 315 | KC2 | C3A-C2A-CAA-CBA |
| 40 | g | 315 | KC2 | C2B-C3B-CAB-CBB |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 40 | g | 315 | KC2 | C2A-CAA-CBA-CGA |
| 40 | n | 611 | KC2 | C2C-C3C-CAC-CBC |
| 40 | n | 611 | KC2 | C4C-C3C-CAC-CBC |
| 40 | n | 611 | KC2 | C2A-CAA-CBA-CGA |
| 40 | n | 611 | KC2 | CAA-CBA-CGA-O1A |
| 40 | n | 611 | KC2 | CAA-CBA-CGA-O2A |
| 40 | n | 612 | KC2 | C1A-C2A-CAA-CBA |
| 40 | n | 612 | KC2 | C3A-C2A-CAA-CBA |
| 40 | n | 612 | KC2 | C2B-C3B-CAB-CBB |
| 40 | n | 612 | KC2 | C4B-C3B-CAB-CBB |
| 40 | n | 612 | KC2 | C2C-C3C-CAC-CBC |
| 40 | n | 612 | KC2 | C4C-C3C-CAC-CBC |
| 29 | B | 819 | CLA | C4C-C3C-CAC-CBC |
| 29 | K | 102 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 302 | CLA | O1D-CGD-O2D-CED |
| 29 | h | 302 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 602 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 609 | CLA | O1D-CGD-O2D-CED |
| 29 | d | 303 | CLA | O1D-CGD-O2D-CED |
| 29 | g | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | n | 601 | CLA | O1D-CGD-O2D-CED |
| 40 | j | 312 | KC2 | O1D-CGD-O2D-CED |
| 29 | B | 819 | CLA | C2C-C3C-CAC-CBC |
| 29 | g | 306 | CLA | C2C-C3C-CAC-CBC |
| 29 | A | 810 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 804 | CLA | O1D-CGD-O2D-CED |
| 29 | F | 201 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 204 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | k | 601 | CLA | O1D-CGD-O2D-CED |
| 29 | k | 610 | CLA | O1D-CGD-O2D-CED |
| 29 | k | 614 | CLA | O1D-CGD-O2D-CED |
| 29 | f | 608 | CLA | O1D-CGD-O2D-CED |
| 29 | i | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | g | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | n | 613 | CLA | O1D-CGD-O2D-CED |
| 40 | c | 310 | KC2 | O1D-CGD-O2D-CED |
| 40 | k | 611 | KC2 | O1D-CGD-O2D-CED |
| 40 | i | 310 | KC2 | O1D-CGD-O2D-CED |
| 40 | i | 318 | KC2 | O1D-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 814 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 822 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 803 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 825 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 827 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 832 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 201 | CLA | CBD-CGD-O2D-CED |
| 29 | J | 102 | CLA | CBD-CGD-O2D-CED |
| 29 | O | 202 | CLA | CBD-CGD-O2D-CED |
| 29 | s | 402 | CLA | CBD-CGD-O2D-CED |
| 29 | s | 403 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 605 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 612 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 602 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 612 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | j | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 318 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 603 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 613 | CLA | CBD-CGD-O2D-CED |
| 40 | e | 309 | KC2 | CBD-CGD-O2D-CED |
| 40 | l | 311 | KC2 | CBD-CGD-O2D-CED |
| 40 | i | 310 | KC2 | CBD-CGD-O2D-CED |
| 40 | g | 314 | KC2 | CBD-CGD-O2D-CED |
| 40 | n | 612 | KC2 | CBD-CGD-O2D-CED |
| 29 | a | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | h | 301 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 610 | CLA | O1A-CGA-O2A-C1 |
| 31 | i | 317 | LHG | O10-C23-O8-C6 |
| 37 | c | 318 | LMG | O10-C28-O8-C9 |
| 33 | i | 301 | LMU | O5B-C1B-O1B-C4' |
| 29 | g | 306 | CLA | C4C-C3C-CAC-CBC |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 815 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 819 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 827 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 803 | CLA | O1D-CGD-O2D-CED |
| 29 | J | 102 | CLA | O1D-CGD-O2D-CED |
| 29 | O | 202 | CLA | O1D-CGD-O2D-CED |
| 29 | s | 403 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | g | 323 | CLA | O1D-CGD-O2D-CED |
| 40 | d | 311 | KC2 | O1D-CGD-O2D-CED |
| 29 | m | 602 | CLA | C4C-C3C-CAC-CBC |
| 33 | A | 855 | LMU | O5B-C1B-O1B-C4' |
| 29 | c | 303 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 603 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 613 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 303 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | j | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | j | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | d | 302 | CLA | O1D-CGD-O2D-CED |
| 29 | d | 309 | CLA | O1D-CGD-O2D-CED |
| 40 | e | 309 | KC2 | O1D-CGD-O2D-CED |
| 29 | B | 811 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 311 | CLA | CBA-CGA-O2A-C1 |
| 37 | Q | 301 | LMG | C29-C28-O8-C9 |
| 29 | A | 809 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 831 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 832 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 819 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 842 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 202 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 307 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 610 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 304 | CLA | CBD-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | k | 605 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 606 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 608 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 613 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 302 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 305 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 307 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 302 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 610 | CLA | CBD-CGD-O2D-CED |
| 40 | d | 312 | KC2 | CBD-CGD-O2D-CED |
| 29 | A | 835 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 839 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 811 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 813 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 831 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | h | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | h | 303 | CLA | O1A-CGA-O2A-C1 |
| 29 | m | 610 | CLA | O1A-CGA-O2A-C1 |
| 29 | e | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | e | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 601 | CLA | O1A-CGA-O2A-C1 |
| 29 | f | 602 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 312 | CLA | O1A-CGA-O2A-C1 |
| 29 | g | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 606 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 608 | CLA | O1A-CGA-O2A-C1 |
| 31 | c | 316 | LHG | O10-C23-O8-C6 |
| 31 | e | 317 | LHG | O10-C23-O8-C6 |
| 31 | f | 620 | LHG | O10-C23-O8-C6 |
| 37 | Q | 301 | LMG | O10-C28-O8-C9 |
| 29 | e | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | d | 304 | CLA | O1D-CGD-O2D-CED |
| 30 | A | 841 | PQN | C18-C20-C21-C22 |
| 29 | c | 305 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 305 | CLA | O1D-CGD-O2D-CED |
| 29 | j | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | d | 318 | CLA | O1D-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 36 | j | 319 | DGD | O6D-C5D-C6D-O5D |
| 29 | F | 202 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | m | 601 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 609 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | g | 316 | CLA | O1D-CGD-O2D-CED |
| 31 | s | 408 | LHG | O9-C7-O7-C5 |
| 31 | c | 320 | LHG | O9-C7-O7-C5 |
| 31 | b | 318 | LHG | O9-C7-O7-C5 |
| 31 | f | 620 | LHG | O9-C7-O7-C5 |
| 31 | i | 317 | LHG | O9-C7-O7-C5 |
| 36 | B | 844 | DGD | O1B-C1B-O2G-C2G |
| 37 | F | 206 | LMG | O9-C10-O7-C8 |
| 37 | c | 317 | LMG | O9-C10-O7-C8 |
| 37 | Q | 301 | LMG | O9-C10-O7-C8 |
| 29 | A | 818 | CLA | O1A-CGA-O2A-C1 |
| 31 | g | 301 | LHG | O10-C23-O8-C6 |
| 33 | A | 855 | LMU | C2B-C1B-O1B-C4' |
| 29 | A | 805 | CLA | C3-C5-C6-C7 |
| 29 | A | 816 | CLA | C3-C5-C6-C7 |
| 29 | A | 834 | CLA | C3-C5-C6-C7 |
| 29 | B | 806 | CLA | C3-C5-C6-C7 |
| 29 | B | 809 | CLA | C3-C5-C6-C7 |
| 29 | B | 817 | CLA | C3-C5-C6-C7 |
| 29 | B | 819 | CLA | C3-C5-C6-C7 |
| 29 | F | 202 | CLA | C3-C5-C6-C7 |
| 29 | K | 101 | CLA | C3-C5-C6-C7 |
| 29 | c | 302 | CLA | C3-C5-C6-C7 |
| 29 | c | 304 | CLA | C3-C5-C6-C7 |
| 29 | b | 308 | CLA | C3-C5-C6-C7 |
| 29 | b | 310 | CLA | C3-C5-C6-C7 |
| 29 | m | 602 | CLA | C3-C5-C6-C7 |
| 29 | e | 306 | CLA | C3-C5-C6-C7 |
| 29 | l | 301 | CLA | C3-C5-C6-C7 |
| 29 | l | 309 | CLA | C3-C5-C6-C7 |
| 29 | l | 310 | CLA | C3-C5-C6-C7 |
| 29 | k | 602 | CLA | C3-C5-C6-C7 |
| 29 | f | 607 | CLA | C3-C5-C6-C7 |
| 29 | f | 609 | CLA | C3-C5-C6-C7 |
| 29 | f | 613 | CLA | C3-C5-C6-C7 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | i | 305 | CLA | C3-C5-C6-C7 |
| 29 | i | 311 | CLA | C3-C5-C6-C7 |
| 29 | g | 311 | CLA | C3-C5-C6-C7 |
| 29 | n | 609 | CLA | C3-C5-C6-C7 |
| 29 | b | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 303 | CLA | CBA-CGA-O2A-C1 |
| 29 | m | 610 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 601 | CLA | CBA-CGA-O2A-C1 |
| 29 | d | 305 | CLA | CBA-CGA-O2A-C1 |
| 29 | g | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 605 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 606 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 610 | CLA | CBA-CGA-O2A-C1 |
| 31 | A | 848 | LHG | C8-C7-O7-C5 |
| 31 | f | 620 | LHG | C24-C23-O8-C6 |
| 37 | c | 318 | LMG | C29-C28-O8-C9 |
| 29 | m | 602 | CLA | C2C-C3C-CAC-CBC |
| 31 | a | 301 | LHG | C8-C7-O7-C5 |
| 29 | A | 814 | CLA | O1D-CGD-O2D-CED |
| 29 | f | 612 | CLA | O1D-CGD-O2D-CED |
| 29 | n | 603 | CLA | O1D-CGD-O2D-CED |
| 40 | n | 612 | KC2 | O1D-CGD-O2D-CED |
| 29 | B | 821 | CLA | CBD-CGD-O2D-CED |
| 29 | j | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 804 | CLA | C2C-C3C-CAC-CBC |
| 29 | k | 614 | CLA | C2C-C3C-CAC-CBC |
| 40 | g | 314 | KC2 | CAA-CBA-CGA-O1A |
| 29 | A | 822 | CLA | C4-C3-C5-C6 |
| 29 | B | 802 | CLA | C4-C3-C5-C6 |
| 29 | B | 819 | CLA | C4-C3-C5-C6 |
| 29 | m | 610 | CLA | C4-C3-C5-C6 |
| 29 | n | 609 | CLA | C4-C3-C5-C6 |
| 29 | B | 802 | CLA | C2-C3-C5-C6 |
| 29 | f | 602 | CLA | C2-C3-C5-C6 |
| 29 | n | 609 | CLA | C2-C3-C5-C6 |
| 29 | h | 301 | CLA | CBD-CGD-O2D-CED |
| 29 | d | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 815 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 829 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 836 | CLA | C2A-CAA-CBA-CGA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | O | 201 | CLA | C2A-CAA-CBA-CGA |
| 29 | s | 406 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 303 | CLA | C2A-CAA-CBA-CGA |
| 29 | m | 610 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | k | 605 | CLA | C2A-CAA-CBA-CGA |
| 29 | k | 614 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | f | 607 | CLA | O1A-CGA-O2A-C1 |
| 29 | m | 612 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 831 | CLA | C3-C5-C6-C7 |
| 29 | s | 403 | CLA | C3-C5-C6-C7 |
| 29 | a | 308 | CLA | C3-C5-C6-C7 |
| 29 | h | 305 | CLA | C3-C5-C6-C7 |
| 29 | n | 604 | CLA | C3-C5-C6-C7 |
| 29 | A | 809 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 818 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 819 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 823 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 834 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 835 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 837 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 839 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 813 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 831 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 307 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 305 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 307 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 610 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 602 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 303 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | d | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 608 | CLA | CBA-CGA-O2A-C1 |
| 31 | i | 317 | LHG | C24-C23-O8-C6 |
| 31 | g | 301 | LHG | C24-C23-O8-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 37 | c | 318 | LMG | O6-C5-C6-O5 |
| 33 | A | 855 | LMU | C4'-C5'-C6'-O6' |
| 29 | m | 605 | CLA | O1D-CGD-O2D-CED |
| 29 | i | 308 | CLA | O1D-CGD-O2D-CED |
| 30 | A | 841 | PQN | C11-C12-C13-C14 |
| 30 | B | 843 | PQN | C11-C12-C13-C14 |
| 29 | k | 604 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 825 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | j | 309 | CLA | O1D-CGD-O2D-CED |
| 37 | c | 318 | LMG | O9-C10-O7-C8 |
| 29 | A | 809 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 819 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 823 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 838 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 303 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 605 | CLA | O1A-CGA-O2A-C1 |
| 31 | L | 209 | LHG | O10-C23-O8-C6 |
| 37 | L | 210 | LMG | O10-C28-O8-C9 |
| 40 | g | 314 | KC2 | O1D-CGD-O2D-CED |
| 32 | A | 847 | WVN | C22-C26-C29-C31 |
| 32 | A | 854 | WVN | C25-C28-C30-C33 |
| 32 | F | 207 | WVN | C25-C28-C30-C33 |
| 32 | I | 101 | WVN | C25-C28-C30-C33 |
| 32 | L | 201 | WVN | C22-C26-C29-C31 |
| 32 | L | 201 | WVN | C25-C28-C30-C33 |
| 32 | l | 316 | WVN | C25-C28-C30-C33 |
| 32 | R | 201 | WVN | C25-C28-C30-C33 |
| 38 | J | 103 | II0 | C25-C29-C31-C33 |
| 38 | c | 314 | II0 | C26-C30-C32-C34 |
| 38 | a | 313 | II0 | C25-C29-C31-C33 |
| 38 | b | 314 | II0 | C26-C30-C32-C34 |
| 38 | b | 317 | II0 | C25-C29-C31-C33 |
| 38 | b | 317 | II0 | C35-C39-C41-C42 |
| 38 | h | 310 | II0 | C25-C29-C31-C33 |
| 38 | m | 614 | II0 | C25-C29-C31-C33 |
| 38 | m | 615 | II0 | C25-C29-C31-C33 |
| 38 | m | 616 | II0 | C25-C29-C31-C33 |
| 38 | m | 618 | II0 | C25-C29-C31-C33 |
| 38 | l | 313 | II0 | C26-C30-C32-C34 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | l | 315 | II0 | C25-C29-C31-C33 |
| 38 | k | 616 | II0 | C26-C30-C32-C34 |
| 38 | k | 620 | II0 | C25-C29-C31-C33 |
| 38 | f | 615 | II0 | C25-C29-C31-C33 |
| 38 | i | 313 | II0 | C26-C30-C32-C34 |
| 38 | i | 314 | II0 | C25-C29-C31-C33 |
| 38 | j | 301 | II0 | C26-C30-C32-C34 |
| 38 | j | 316 | II0 | C25-C29-C31-C33 |
| 38 | d | 301 | II0 | C25-C29-C31-C33 |
| 38 | d | 301 | II0 | C26-C30-C32-C34 |
| 38 | d | 315 | II0 | C36-C40-C42-C41 |
| 38 | g | 318 | II0 | C25-C29-C31-C33 |
| 39 | b | 316 | IHT | C26-C29-C31-C34 |
| 37 | L | 210 | LMG | O6-C5-C6-O5 |
| 29 | A | 808 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 823 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 824 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 802 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 830 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 838 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 301 | CLA | CBD-CGD-O2D-CED |
| 29 | j | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 602 | CLA | CBD-CGD-O2D-CED |
| 40 | g | 313 | KC2 | CBD-CGD-O2D-CED |
| 29 | B | 832 | CLA | O1D-CGD-O2D-CED |
| 31 | A | 843 | LHG | O2-C2-C3-O3 |
| 31 | b | 318 | LHG | O2-C2-C3-O3 |
| 31 | f | 620 | LHG | O2-C2-C3-O3 |
| 31 | n | 619 | LHG | O2-C2-C3-O3 |
| 29 | A | 809 | CLA | C3-C5-C6-C7 |
| 29 | e | 302 | CLA | C3-C5-C6-C7 |
| 29 | i | 307 | CLA | C3-C5-C6-C7 |
| 29 | g | 310 | CLA | C3-C5-C6-C7 |
| 29 | A | 803 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 816 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 828 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 609 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | d | 313 | CLA | CBA-CGA-O2A-C1 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | R | 203 | CLA | CBA-CGA-O2A-C1 |
| 31 | c | 316 | LHG | C24-C23-O8-C6 |
| 31 | e | 317 | LHG | C24-C23-O8-C6 |
| 29 | b | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | e | 305 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 310 | CLA | O1A-CGA-O2A-C1 |
| 29 | d | 305 | CLA | O1A-CGA-O2A-C1 |
| 29 | d | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 602 | CLA | O1D-CGD-O2D-CED |
| 40 | l | 311 | KC2 | O1D-CGD-O2D-CED |
| 29 | A | 817 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 307 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 312 | CLA | CBD-CGD-O2D-CED |
| 33 | A | 855 | LMU | O5B-C5B-C6B-O6B |
| 37 | O | 205 | LMG | O6-C5-C6-O5 |
| 33 | A | 849 | LMU | O5'-C5'-C6'-O6' |
| 37 | n | 620 | LMG | O6-C5-C6-O5 |
| 29 | s | 402 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 820 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 801 | CLA | C3-C5-C6-C7 |
| 29 | B | 813 | CLA | C3-C5-C6-C7 |
| 29 | h | 301 | CLA | C3-C5-C6-C7 |
| 29 | l | 307 | CLA | C3-C5-C6-C7 |
| 29 | B | 838 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 607 | CLA | CBA-CGA-O2A-C1 |
| 36 | B | 844 | DGD | O6E-C5E-C6E-O5E |
| 40 | i | 318 | KC2 | CAA-CBA-CGA-O2A |
| 29 | A | 803 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 834 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 837 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 610 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | d | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | R | 203 | CLA | O1A-CGA-O2A-C1 |
| 36 | j | 319 | DGD | O1A-C1A-O1G-C1G |
| 33 | A | 855 | LMU | O5'-C5'-C6'-O6' |
| 29 | A | 816 | CLA | C4-C3-C5-C6 |
| 29 | A | 833 | CLA | C4-C3-C5-C6 |
| 29 | B | 801 | CLA | C4-C3-C5-C6 |
| 29 | c | 308 | CLA | C4-C3-C5-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | a | 302 | CLA | C4-C3-C5-C6 |
| 29 | m | 602 | CLA | C4-C3-C5-C6 |
| 29 | f | 613 | CLA | C4-C3-C5-C6 |
| 29 | j | 311 | CLA | C4-C3-C5-C6 |
| 33 | A | 855 | LMU | C4B-C5B-C6B-O6B |
| 29 | A | 816 | CLA | C2-C3-C5-C6 |
| 29 | A | 833 | CLA | C2-C3-C5-C6 |
| 29 | B | 801 | CLA | C2-C3-C5-C6 |
| 29 | c | 308 | CLA | C2-C3-C5-C6 |
| 29 | a | 302 | CLA | C2-C3-C5-C6 |
| 29 | m | 602 | CLA | C2-C3-C5-C6 |
| 29 | f | 613 | CLA | C2-C3-C5-C6 |
| 29 | j | 311 | CLA | C2-C3-C5-C6 |
| 29 | n | 607 | CLA | C2-C3-C5-C6 |
| 29 | B | 841 | CLA | C2A-CAA-CBA-CGA |
| 29 | f | 612 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 822 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 816 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 828 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 609 | CLA | O1A-CGA-O2A-C1 |
| 33 | i | 301 | LMU | O5'-C1'-O1'-C1 |
| 37 | c | 318 | LMG | O6-C1-O1-C7 |
| 29 | k | 614 | CLA | C4C-C3C-CAC-CBC |
| 29 | B | 805 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 839 | CLA | CBA-CGA-O2A-C1 |
| 29 | m | 606 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 610 | CLA | CBA-CGA-O2A-C1 |
| 31 | L | 209 | LHG | C24-C23-O8-C6 |
| 37 | L | 210 | LMG | C29-C28-O8-C9 |
| 29 | B | 822 | CLA | CBD-CGD-O2D-CED |
| 29 | c | 301 | CLA | CBD-CGD-O2D-CED |
| 37 | c | 318 | LMG | C4-C5-C6-O5 |
| 29 | B | 827 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | i | 302 | CLA | O1D-CGD-O2D-CED |
| 40 | m | 611 | KC2 | CAA-CBA-CGA-O1A |
| 40 | m | 611 | KC2 | CAA-CBA-CGA-O2A |
| 40 | e | 309 | KC2 | CAA-CBA-CGA-O1A |
| 40 | k | 613 | KC2 | CAA-CBA-CGA-O2A |
| 40 | f | 611 | KC2 | CAA-CBA-CGA-O1A |
| 40 | f | 611 | KC2 | CAA-CBA-CGA-O2A |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 40 | i | 310 | KC2 | CAA-CBA-CGA-O2A |
| 40 | i | 318 | KC2 | CAA-CBA-CGA-O1A |
| 40 | j | 312 | KC2 | CAA-CBA-CGA-O1A |
| 40 | j | 312 | KC2 | CAA-CBA-CGA-O2A |
| 40 | d | 312 | KC2 | CAA-CBA-CGA-O1A |
| 40 | n | 612 | KC2 | CAA-CBA-CGA-O1A |
| 37 | L | 210 | LMG | C4-C5-C6-O5 |
| 29 | A | 809 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 832 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 841 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 608 | CLA | O1D-CGD-O2D-CED |
| 29 | f | 613 | CLA | O1D-CGD-O2D-CED |
| 31 | c | 320 | LHG | C1-C2-C3-O3 |
| 29 | f | 610 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 306 | CLA | C3-C5-C6-C7 |
| 29 | m | 610 | CLA | C3-C5-C6-C7 |
| 29 | d | 302 | CLA | C3-C5-C6-C7 |
| 29 | k | 606 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 805 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 810 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 820 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 838 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 802 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 815 | CLA | CBA-CGA-O2A-C1 |
| 29 | L | 203 | CLA | CBA-CGA-O2A-C1 |
| 29 | K | 101 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 304 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 307 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 309 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 613 | CLA | CBA-CGA-O2A-C1 |
| 29 | j | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | j | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | d | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | g | 309 | CLA | CBA-CGA-O2A-C1 |
| 29 | g | 323 | CLA | CBA-CGA-O2A-C1 |
| 36 | j | 319 | DGD | C2A-C1A-O1G-C1G |
| 29 | l | 309 | CLA | C5-C6-C7-C8 |
| 33 | A | 849 | LMU | C4'-C5'-C6'-O6' |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | c | 309 | CLA | O1D-CGD-O2D-CED |
| 32 | F | 205 | WVN | C25-C28-C30-C33 |
| 32 | M | 101 | WVN | C22-C26-C29-C31 |
| 32 | s | 407 | WVN | C34-C37-C40-C39 |
| 32 | h | 308 | WVN | C22-C26-C29-C31 |
| 32 | h | 308 | WVN | C32-C36-C39-C40 |
| 32 | l | 302 | WVN | C25-C28-C30-C33 |
| 32 | l | 316 | WVN | C22-C26-C29-C31 |
| 32 | i | 315 | WVN | C22-C26-C29-C31 |
| 38 | c | 313 | II0 | C25-C29-C31-C33 |
| 38 | b | 301 | II0 | C25-C29-C31-C33 |
| 38 | b | 301 | II0 | C26-C30-C32-C34 |
| 38 | h | 311 | II0 | C25-C29-C31-C33 |
| 38 | m | 618 | II0 | C35-C39-C41-C42 |
| 38 | e | 312 | II0 | C25-C29-C31-C33 |
| 38 | e | 312 | II0 | C26-C30-C32-C34 |
| 38 | l | 315 | II0 | C26-C30-C32-C34 |
| 38 | k | 619 | II0 | C25-C29-C31-C33 |
| 38 | f | 615 | II0 | C26-C30-C32-C34 |
| 38 | f | 616 | II0 | C25-C29-C31-C33 |
| 38 | i | 316 | II0 | C25-C29-C31-C33 |
| 38 | j | 315 | II0 | C26-C30-C32-C34 |
| 38 | j | 316 | II0 | C26-C30-C32-C34 |
| 38 | n | 615 | II0 | C25-C29-C31-C33 |
| 38 | n | 616 | II0 | C25-C29-C31-C33 |
| 39 | g | 320 | IHT | C26-C29-C31-C34 |
| 31 | c | 316 | LHG | C28-C29-C30-C31 |
| 29 | A | 812 | CLA | C13-C15-C16-C17 |
| 29 | A | 819 | CLA | C15-C16-C17-C18 |
| 29 | B | 812 | CLA | C5-C6-C7-C8 |
| 33 | i | 301 | LMU | O5'-C5'-C6'-O6' |
| 37 | n | 620 | LMG | C4-C5-C6-O5 |
| 40 | c | 310 | KC2 | CAA-CBA-CGA-O2A |
| 40 | k | 612 | KC2 | CAA-CBA-CGA-O2A |
| 40 | k | 613 | KC2 | CAA-CBA-CGA-O1A |
| 40 | i | 310 | KC2 | CAA-CBA-CGA-O1A |
| 40 | d | 311 | KC2 | CAA-CBA-CGA-O1A |
| 40 | d | 311 | KC2 | CAA-CBA-CGA-O2A |
| 40 | g | 313 | KC2 | CAA-CBA-CGA-O2A |
| 29 | i | 312 | CLA | C2C-C3C-CAC-CBC |
| 36 | B | 844 | DGD | C4E-C5E-C6E-O5E |
| 29 | B | 820 | CLA | C15-C16-C17-C18 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | K | 101 | CLA | C10-C11-C12-C13 |
| 29 | K | 101 | CLA | C15-C16-C17-C18 |
| 29 | b | 311 | CLA | C13-C15-C16-C17 |
| 31 | c | 320 | LHG | O2-C2-C3-O3 |
| 29 | m | 613 | CLA | C3-C5-C6-C7 |
| 36 | B | 844 | DGD | C2D-C1D-O3G-C3G |
| 37 | c | 318 | LMG | C2-C1-O1-C7 |
| 37 | c | 318 | LMG | O1-C7-C8-O7 |
| 29 | K | 101 | CLA | O1A-CGA-O2A-C1 |
| 29 | g | 309 | CLA | O1A-CGA-O2A-C1 |
| 29 | g | 323 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 610 | CLA | C4-C3-C5-C6 |
| 29 | A | 822 | CLA | C2-C3-C5-C6 |
| 29 | B | 819 | CLA | C2-C3-C5-C6 |
| 29 | A | 810 | CLA | C11-C10-C8-C9 |
| 29 | A | 824 | CLA | C14-C13-C15-C16 |
| 29 | A | 840 | CLA | C6-C7-C8-C9 |
| 29 | B | 804 | CLA | C11-C12-C13-C14 |
| 29 | B | 839 | CLA | C6-C7-C8-C9 |
| 29 | B | 840 | CLA | C11-C12-C13-C14 |
| 29 | F | 202 | CLA | C14-C13-C15-C16 |
| 29 | c | 304 | CLA | C6-C7-C8-C9 |
| 29 | a | 311 | CLA | C11-C12-C13-C14 |
| 29 | b | 306 | CLA | C11-C12-C13-C14 |
| 29 | e | 307 | CLA | C14-C13-C15-C16 |
| 29 | k | 602 | CLA | C11-C12-C13-C14 |
| 29 | f | 613 | CLA | C11-C10-C8-C9 |
| 29 | i | 302 | CLA | C11-C10-C8-C9 |
| 29 | i | 308 | CLA | C11-C10-C8-C9 |
| 29 | g | 304 | CLA | C6-C7-C8-C9 |
| 29 | g | 305 | CLA | C11-C12-C13-C14 |
| 29 | g | 311 | CLA | C14-C13-C15-C16 |
| 29 | Q | 302 | CLA | C6-C7-C8-C9 |
| 29 | A | 831 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 610 | CLA | O1D-CGD-O2D-CED |
| 29 | k | 605 | CLA | O1D-CGD-O2D-CED |
| 29 | d | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 836 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 608 | CLA | CBD-CGD-O2D-CED |
| 31 | g | 322 | LHG | C29-C30-C31-C32 |
| 29 | A | 817 | CLA | C13-C15-C16-C17 |
| 29 | B | 838 | CLA | C15-C16-C17-C18 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | l | 304 | CLA | C10-C11-C12-C13 |
| 29 | A | 821 | CLA | C2A-CAA-CBA-CGA |
| 29 | s | 402 | CLA | C2A-CAA-CBA-CGA |
| 29 | c | 307 | CLA | C2A-CAA-CBA-CGA |
| 29 | e | 301 | CLA | C2A-CAA-CBA-CGA |
| 32 | A | 845 | WVN | C11-C19-C22-C24 |
| 32 | A | 845 | WVN | C20-C23-C25-C27 |
| 32 | A | 846 | WVN | C11-C19-C22-C24 |
| 32 | A | 846 | WVN | C30-C33-C34-C38 |
| 32 | A | 847 | WVN | C20-C23-C25-C27 |
| 32 | A | 847 | WVN | C29-C31-C32-C35 |
| 32 | B | 845 | WVN | C30-C33-C34-C38 |
| 32 | B | 846 | WVN | C11-C19-C22-C24 |
| 32 | B | 846 | WVN | C20-C23-C25-C27 |
| 32 | B | 846 | WVN | C30-C33-C34-C38 |
| 32 | B | 847 | WVN | C11-C19-C22-C24 |
| 32 | B | 848 | WVN | C11-C19-C22-C24 |
| 32 | B | 848 | WVN | C20-C23-C25-C27 |
| 32 | B | 849 | WVN | C20-C23-C25-C27 |
| 32 | B | 849 | WVN | C29-C31-C32-C35 |
| 32 | B | 849 | WVN | C30-C33-C34-C38 |
| 32 | F | 204 | WVN | C11-C19-C22-C24 |
| 32 | F | 204 | WVN | C29-C31-C32-C35 |
| 32 | F | 204 | WVN | C30-C33-C34-C38 |
| 32 | F | 205 | WVN | C20-C23-C25-C27 |
| 32 | F | 207 | WVN | C30-C33-C34-C38 |
| 32 | J | 101 | WVN | C30-C33-C34-C38 |
| 32 | L | 201 | WVN | C30-C33-C34-C38 |
| 32 | K | 103 | WVN | C20-C23-C25-C27 |
| 32 | s | 405 | WVN | C11-C19-C22-C24 |
| 32 | s | 407 | WVN | C20-C23-C25-C27 |
| 32 | s | 407 | WVN | C30-C33-C34-C38 |
| 32 | e | 315 | WVN | C30-C33-C34-C38 |
| 32 | l | 302 | WVN | C11-C19-C22-C24 |
| 32 | i | 315 | WVN | C29-C31-C32-C35 |
| 32 | i | 315 | WVN | C30-C33-C34-C38 |
| 38 | a | 314 | II0 | C31-C33-C35-C37 |
| 38 | a | 317 | II0 | C31-C33-C35-C37 |
| 38 | b | 301 | II0 | C32-C34-C36-C38 |
| 38 | b | 314 | II0 | C31-C33-C35-C37 |
| 38 | b | 314 | II0 | C32-C34-C36-C38 |
| 38 | b | 315 | II0 | C32-C34-C36-C38 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | h | 310 | II0 | C31-C33-C35-C37 |
| 38 | m | 618 | II0 | C32-C34-C36-C38 |
| 38 | l | 313 | II0 | C32-C34-C36-C38 |
| 38 | l | 314 | II0 | C32-C34-C36-C38 |
| 38 | k | 615 | II0 | C31-C33-C35-C37 |
| 38 | k | 619 | II0 | C31-C33-C35-C37 |
| 38 | f | 614 | II0 | C32-C34-C36-C38 |
| 38 | i | 314 | II0 | C31-C33-C35-C37 |
| 38 | d | 317 | II0 | C31-C33-C35-C37 |
| 38 | d | 317 | II0 | C32-C34-C36-C38 |
| 38 | g | 317 | II0 | C31-C33-C35-C37 |
| 38 | g | 319 | II0 | C32-C34-C36-C38 |
| 38 | n | 616 | II0 | C31-C33-C35-C37 |
| 39 | n | 617 | IHT | C31-C34-C35-C39 |
| 32 | B | 846 | WVN | C29-C31-C32-C36 |
| 32 | F | 205 | WVN | C29-C31-C32-C36 |
| 32 | I | 101 | WVN | C20-C23-C25-C28 |
| 32 | J | 101 | WVN | C29-C31-C32-C36 |
| 32 | L | 201 | WVN | C11-C19-C22-C26 |
| 32 | L | 201 | WVN | C20-C23-C25-C28 |
| 32 | L | 206 | WVN | C11-C19-C22-C26 |
| 32 | M | 101 | WVN | C11-C19-C22-C26 |
| 32 | s | 405 | WVN | C29-C31-C32-C36 |
| 32 | e | 315 | WVN | C20-C23-C25-C28 |
| 32 | l | 316 | WVN | C29-C31-C32-C36 |
| 32 | i | 315 | WVN | C20-C23-C25-C28 |
| 32 | R | 201 | WVN | C11-C19-C22-C26 |
| 32 | R | 201 | WVN | C20-C23-C25-C28 |
| 32 | R | 201 | WVN | C29-C31-C32-C36 |
| 32 | R | 201 | WVN | C30-C33-C34-C37 |
| 32 | R | 202 | WVN | C30-C33-C34-C37 |
| 38 | J | 103 | II0 | C32-C34-C36-C40 |
| 38 | c | 313 | II0 | C32-C34-C36-C40 |
| 38 | a | 315 | II0 | C32-C34-C36-C40 |
| 38 | b | 315 | II0 | C31-C33-C35-C39 |
| 38 | m | 616 | II0 | C31-C33-C35-C39 |
| 38 | m | 616 | II0 | C32-C34-C36-C40 |
| 38 | m | 618 | II0 | C31-C33-C35-C39 |
| 38 | e | 312 | II0 | C32-C34-C36-C40 |
| 38 | k | 616 | II0 | C31-C33-C35-C39 |
| 38 | f | 616 | II0 | C31-C33-C35-C39 |
| 38 | i | 313 | II0 | C32-C34-C36-C40 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | i | 316 | II0 | C31-C33-C35-C39 |
| 38 | i | 319 | II0 | C31-C33-C35-C39 |
| 38 | j | 301 | II0 | C32-C34-C36-C40 |
| 38 | j | 315 | II0 | C31-C33-C35-C39 |
| 38 | d | 316 | II0 | C31-C33-C35-C39 |
| 38 | d | 316 | II0 | C32-C34-C36-C40 |
| 38 | n | 618 | II0 | C31-C33-C35-C39 |
| 29 | d | 313 | CLA | O1D-CGD-O2D-CED |
| 31 | J | 104 | LHG | C23-C24-C25-C26 |
| 31 | n | 619 | LHG | C23-C24-C25-C26 |
| 29 | A | 805 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 838 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 312 | CLA | O1A-CGA-O2A-C1 |
| 29 | h | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | f | 613 | CLA | O1A-CGA-O2A-C1 |
| 29 | j | 310 | CLA | O1A-CGA-O2A-C1 |
| 29 | j | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 828 | CLA | C13-C15-C16-C17 |
| 29 | B | 836 | CLA | C10-C11-C12-C13 |
| 29 | c | 308 | CLA | C13-C15-C16-C17 |
| 29 | c | 312 | CLA | C15-C16-C17-C18 |
| 29 | a | 308 | CLA | C15-C16-C17-C18 |
| 29 | a | 311 | CLA | C15-C16-C17-C18 |
| 29 | m | 603 | CLA | C5-C6-C7-C8 |
| 29 | i | 308 | CLA | C13-C15-C16-C17 |
| 29 | i | 311 | CLA | C8-C10-C11-C12 |
| 29 | g | 302 | CLA | C15-C16-C17-C18 |
| 29 | g | 311 | CLA | C13-C15-C16-C17 |
| 29 | g | 302 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 813 | CLA | CBD-CGD-O2D-CED |
| 40 | c | 310 | KC2 | CAA-CBA-CGA-O1A |
| 40 | e | 309 | KC2 | CAA-CBA-CGA-O2A |
| 40 | d | 312 | KC2 | CAA-CBA-CGA-O2A |
| 40 | g | 313 | KC2 | CAA-CBA-CGA-O1A |
| 40 | g | 315 | KC2 | CAA-CBA-CGA-O2A |
| 40 | n | 612 | KC2 | CAA-CBA-CGA-O2A |
| 29 | j | 314 | CLA | C3-C5-C6-C7 |
| 29 | A | 822 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 801 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 822 | CLA | CBA-CGA-O2A-C1 |
| 29 | c | 302 | CLA | CBA-CGA-O2A-C1 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | n | 607 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 807 | CLA | C15-C16-C17-C18 |
| 29 | A | 819 | CLA | C10-C11-C12-C13 |
| 29 | A | 833 | CLA | C8-C10-C11-C12 |
| 29 | A | 834 | CLA | C5-C6-C7-C8 |
| 29 | A | 840 | CLA | C5-C6-C7-C8 |
| 29 | B | 816 | CLA | C10-C11-C12-C13 |
| 29 | B | 822 | CLA | C5-C6-C7-C8 |
| 29 | c | 312 | CLA | C8-C10-C11-C12 |
| 29 | a | 307 | CLA | C15-C16-C17-C18 |
| 29 | b | 312 | CLA | C5-C6-C7-C8 |
| 29 | m | 608 | CLA | C5-C6-C7-C8 |
| 29 | f | 602 | CLA | C13-C15-C16-C17 |
| 29 | f | 610 | CLA | C8-C10-C11-C12 |
| 29 | n | 608 | CLA | C8-C10-C11-C12 |
| 31 | a | 318 | LHG | C23-C24-C25-C26 |
| 31 | b | 318 | LHG | C23-C24-C25-C26 |
| 31 | f | 619 | LHG | C7-C8-C9-C10 |
| 31 | f | 619 | LHG | C23-C24-C25-C26 |
| 29 | i | 305 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 837 | CLA | CBD-CGD-O2D-CED |
| 29 | h | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 804 | CLA | C4C-C3C-CAC-CBC |
| 33 | a | 319 | LMU | O5'-C5'-C6'-O6' |
| 29 | A | 807 | CLA | C8-C10-C11-C12 |
| 29 | A | 810 | CLA | C15-C16-C17-C18 |
| 29 | A | 818 | CLA | C13-C15-C16-C17 |
| 29 | A | 831 | CLA | C13-C15-C16-C17 |
| 29 | A | 838 | CLA | C5-C6-C7-C8 |
| 29 | B | 805 | CLA | C10-C11-C12-C13 |
| 29 | B | 813 | CLA | C8-C10-C11-C12 |
| 29 | B | 836 | CLA | C15-C16-C17-C18 |
| 29 | F | 202 | CLA | C8-C10-C11-C12 |
| 29 | b | 307 | CLA | C10-C11-C12-C13 |
| 29 | b | 310 | CLA | C15-C16-C17-C18 |
| 29 | e | 302 | CLA | C10-C11-C12-C13 |
| 29 | e | 307 | CLA | C5-C6-C7-C8 |
| 29 | e | 311 | CLA | C13-C15-C16-C17 |
| 29 | l | 312 | CLA | C5-C6-C7-C8 |
| 29 | k | 602 | CLA | C13-C15-C16-C17 |
| 29 | f | 610 | CLA | C13-C15-C16-C17 |
| 29 | i | 302 | CLA | C5-C6-C7-C8 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | j | 302 | CLA | C15-C16-C17-C18 |
| 29 | g | 304 | CLA | C5-C6-C7-C8 |
| 29 | n | 608 | CLA | C5-C6-C7-C8 |
| 29 | n | 608 | CLA | C10-C11-C12-C13 |
| 29 | Q | 302 | CLA | C5-C6-C7-C8 |
| 31 | b | 318 | LHG | O1-C1-C2-O2 |
| 29 | A | 810 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 306 | CLA | O1A-CGA-O2A-C1 |
| 31 | c | 320 | LHG | C23-C24-C25-C26 |
| 31 | l | 318 | LHG | C7-C8-C9-C10 |
| 31 | l | 318 | LHG | C23-C24-C25-C26 |
| 31 | j | 318 | LHG | C7-C8-C9-C10 |
| 31 | j | 318 | LHG | C23-C24-C25-C26 |
| 31 | g | 322 | LHG | C23-C24-C25-C26 |
| 29 | Q | 302 | CLA | CBD-CGD-O2D-CED |
| 40 | d | 312 | KC2 | O1D-CGD-O2D-CED |
| 29 | A | 809 | CLA | C5-C6-C7-C8 |
| 29 | A | 835 | CLA | C5-C6-C7-C8 |
| 29 | B | 801 | CLA | C5-C6-C7-C8 |
| 29 | B | 816 | CLA | C5-C6-C7-C8 |
| 29 | s | 403 | CLA | C15-C16-C17-C18 |
| 29 | c | 302 | CLA | C10-C11-C12-C13 |
| 29 | a | 307 | CLA | C5-C6-C7-C8 |
| 29 | b | 305 | CLA | C13-C15-C16-C17 |
| 29 | e | 304 | CLA | C13-C15-C16-C17 |
| 29 | e | 307 | CLA | C13-C15-C16-C17 |
| 29 | i | 304 | CLA | C8-C10-C11-C12 |
| 29 | g | 304 | CLA | C13-C15-C16-C17 |
| 30 | B | 843 | PQN | C15-C16-C17-C18 |
| 29 | c | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 303 | CLA | O1D-CGD-O2D-CED |
| 29 | n | 610 | CLA | O1D-CGD-O2D-CED |
| 40 | k | 612 | KC2 | CAA-CBA-CGA-O1A |
| 40 | g | 315 | KC2 | CAA-CBA-CGA-O1A |
| 29 | B | 801 | CLA | C2-C1-O2A-CGA |
| 29 | A | 812 | CLA | C15-C16-C17-C18 |
| 29 | F | 202 | CLA | C13-C15-C16-C17 |
| 29 | O | 206 | CLA | C5-C6-C7-C8 |
| 29 | K | 101 | CLA | C13-C15-C16-C17 |
| 29 | s | 402 | CLA | C10-C11-C12-C13 |
| 29 | s | 402 | CLA | C15-C16-C17-C18 |
| 29 | m | 604 | CLA | C15-C16-C17-C18 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 613 | CLA | C13-C15-C16-C17 |
| 29 | g | 304 | CLA | C10-C11-C12-C13 |
| 29 | g | 310 | CLA | C5-C6-C7-C8 |
| 29 | L | 202 | CLA | O1D-CGD-O2D-CED |
| 31 | c | 316 | LHG | C7-C8-C9-C10 |
| 37 | c | 318 | LMG | C28-C29-C30-C31 |
| 29 | d | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | s | 403 | CLA | C10-C11-C12-C13 |
| 29 | b | 308 | CLA | C13-C15-C16-C17 |
| 29 | F | 202 | CLA | O1D-CGD-O2D-CED |
| 29 | n | 609 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 816 | CLA | C12-C13-C15-C16 |
| 29 | A | 825 | CLA | C11-C12-C13-C15 |
| 29 | A | 830 | CLA | C11-C10-C8-C7 |
| 29 | B | 807 | CLA | C12-C13-C15-C16 |
| 29 | s | 402 | CLA | C11-C10-C8-C7 |
| 29 | e | 306 | CLA | C11-C10-C8-C7 |
| 29 | g | 304 | CLA | C11-C12-C13-C15 |
| 29 | g | 311 | CLA | C12-C13-C15-C16 |
| 29 | n | 608 | CLA | C6-C7-C8-C10 |
| 29 | O | 202 | CLA | C3-C5-C6-C7 |
| 29 | c | 308 | CLA | C3-C5-C6-C7 |
| 29 | A | 820 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 802 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 805 | CLA | O1A-CGA-O2A-C1 |
| 29 | L | 203 | CLA | O1A-CGA-O2A-C1 |
| 29 | h | 304 | CLA | O1A-CGA-O2A-C1 |
| 32 | A | 844 | WVN | C22-C26-C29-C31 |
| 32 | A | 846 | WVN | C25-C28-C30-C33 |
| 32 | A | 846 | WVN | C32-C36-C39-C40 |
| 32 | B | 848 | WVN | C25-C28-C30-C33 |
| 32 | L | 205 | WVN | C22-C26-C29-C31 |
| 32 | L | 205 | WVN | C25-C28-C30-C33 |
| 32 | R | 201 | WVN | C22-C26-C29-C31 |
| 38 | c | 313 | II0 | C26-C30-C32-C34 |
| 38 | a | 317 | II0 | C25-C29-C31-C33 |
| 38 | b | 315 | II0 | C25-C29-C31-C33 |
| 38 | h | 309 | II0 | C25-C29-C31-C33 |
| 38 | m | 616 | II0 | C26-C30-C32-C34 |
| 38 | m | 618 | II0 | C26-C30-C32-C34 |
| 38 | e | 313 | II0 | C25-C29-C31-C33 |
| 38 | e | 316 | II0 | C36-C40-C42-C41 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | k | 616 | II0 | C25-C29-C31-C33 |
| 38 | k | 619 | II0 | C26-C30-C32-C34 |
| 38 | k | 620 | II0 | C35-C39-C41-C42 |
| 38 | f | 614 | II0 | C25-C29-C31-C33 |
| 38 | i | 313 | II0 | C25-C29-C31-C33 |
| 38 | j | 301 | II0 | C25-C29-C31-C33 |
| 38 | d | 301 | II0 | C35-C39-C41-C42 |
| 38 | d | 315 | II0 | C26-C30-C32-C34 |
| 38 | d | 316 | II0 | C25-C29-C31-C33 |
| 38 | d | 317 | II0 | C25-C29-C31-C33 |
| 38 | g | 318 | II0 | C26-C30-C32-C34 |
| 39 | c | 315 | IHT | C35-C38-C41-C40 |
| 39 | c | 319 | IHT | C33-C37-C40-C41 |
| 29 | B | 825 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 807 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 817 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 828 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 837 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 306 | CLA | C2A-CAA-CBA-CGA |
| 29 | m | 613 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | g | 307 | CLA | C2A-CAA-CBA-CGA |
| 29 | n | 613 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 819 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 842 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 601 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | g | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | m | 606 | CLA | C13-C15-C16-C17 |
| 29 | m | 608 | CLA | C13-C15-C16-C17 |
| 29 | l | 307 | CLA | C13-C15-C16-C17 |
| 29 | i | 305 | CLA | C8-C10-C11-C12 |
| 29 | B | 815 | CLA | O1A-CGA-O2A-C1 |
| 29 | d | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 816 | CLA | CBD-CGD-O2D-CED |
| 33 | A | 849 | LMU | O5'-C1'-O1'-C1 |
| 33 | a | 319 | LMU | O5'-C1'-O1'-C1 |
| 29 | B | 837 | CLA | C13-C15-C16-C17 |
| 29 | g | 302 | CLA | C13-C15-C16-C17 |
| 29 | n | 608 | CLA | C13-C15-C16-C17 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | i | 309 | CLA | O1D-CGD-O2D-CED |
| 31 | L | 208 | LHG | O2-C2-C3-O3 |
| 31 | a | 318 | LHG | O2-C2-C3-O3 |
| 31 | e | 317 | LHG | O2-C2-C3-O3 |
| 29 | a | 302 | CLA | C3-C5-C6-C7 |
| 29 | e | 310 | CLA | C3-C5-C6-C7 |
| 29 | A | 807 | CLA | C13-C15-C16-C17 |
| 29 | A | 813 | CLA | C5-C6-C7-C8 |
| 29 | B | 810 | CLA | C8-C10-C11-C12 |
| 29 | b | 306 | CLA | C8-C10-C11-C12 |
| 29 | e | 311 | CLA | C15-C16-C17-C18 |
| 29 | j | 302 | CLA | C13-C15-C16-C17 |
| 29 | g | 304 | CLA | C8-C10-C11-C12 |
| 29 | Q | 302 | CLA | C15-C16-C17-C18 |
| 29 | F | 203 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 612 | CLA | CBA-CGA-O2A-C1 |
| 31 | J | 104 | LHG | C24-C23-O8-C6 |
| 29 | B | 822 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 839 | CLA | O1A-CGA-O2A-C1 |
| 29 | m | 606 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 826 | CLA | C5-C6-C7-C8 |
| 29 | A | 851 | CLA | C8-C10-C11-C12 |
| 29 | B | 812 | CLA | C15-C16-C17-C18 |
| 29 | F | 202 | CLA | C5-C6-C7-C8 |
| 29 | s | 406 | CLA | C8-C10-C11-C12 |
| 29 | s | 406 | CLA | C13-C15-C16-C17 |
| 29 | b | 310 | CLA | C8-C10-C11-C12 |
| 29 | g | 311 | CLA | C5-C6-C7-C8 |
| 29 | O | 201 | CLA | CBD-CGD-O2D-CED |
| 29 | j | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 822 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 801 | CLA | O1A-CGA-O2A-C1 |
| 29 | c | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 309 | CLA | O1A-CGA-O2A-C1 |
| 36 | B | 844 | DGD | C2B-C1B-O2G-C2G |
| 29 | d | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 814 | CLA | C15-C16-C17-C18 |
| 29 | B | 817 | CLA | C5-C6-C7-C8 |
| 29 | B | 820 | CLA | C10-C11-C12-C13 |
| 29 | B | 834 | CLA | C8-C10-C11-C12 |
| 29 | O | 202 | CLA | C8-C10-C11-C12 |
| 29 | c | 312 | CLA | C10-C11-C12-C13 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | a | 307 | CLA | C8-C10-C11-C12 |
| 29 | b | 310 | CLA | C13-C15-C16-C17 |
| 29 | m | 608 | CLA | C15-C16-C17-C18 |
| 29 | e | 310 | CLA | C5-C6-C7-C8 |
| 29 | l | 306 | CLA | C13-C15-C16-C17 |
| 31 | A | 842 | LHG | C4-O6-P-O3 |
| 31 | L | 208 | LHG | C3-O3-P-O6 |
| 31 | c | 320 | LHG | C3-O3-P-O6 |
| 31 | a | 301 | LHG | C3-O3-P-O6 |
| 31 | a | 318 | LHG | C3-O3-P-O6 |
| 31 | m | 619 | LHG | C3-O3-P-O6 |
| 31 | e | 317 | LHG | C4-O6-P-O3 |
| 31 | f | 620 | LHG | C3-O3-P-O6 |
| 31 | f | 620 | LHG | C4-O6-P-O3 |
| 31 | i | 317 | LHG | C3-O3-P-O6 |
| 31 | g | 301 | LHG | C3-O3-P-O6 |
| 31 | g | 322 | LHG | C3-O3-P-O6 |
| 31 | n | 619 | LHG | C3-O3-P-O6 |
| 28 | A | 801 | CL0 | C3-C5-C6-C7 |
| 29 | B | 803 | CLA | C3-C5-C6-C7 |
| 29 | g | 316 | CLA | C3-C5-C6-C7 |
| 29 | c | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 818 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 810 | CLA | C8-C10-C11-C12 |
| 29 | B | 810 | CLA | C13-C15-C16-C17 |
| 29 | B | 836 | CLA | C13-C15-C16-C17 |
| 29 | s | 406 | CLA | C5-C6-C7-C8 |
| 29 | g | 310 | CLA | C15-C16-C17-C18 |
| 33 | i | 301 | LMU | C4'-C5'-C6'-O6' |
| 29 | j | 311 | CLA | O1D-CGD-O2D-CED |
| 31 | e | 317 | LHG | C7-C8-C9-C10 |
| 29 | B | 821 | CLA | O1D-CGD-O2D-CED |
| 31 | L | 208 | LHG | C1-C2-C3-O3 |
| 31 | L | 209 | LHG | C1-C2-C3-O3 |
| 31 | a | 318 | LHG | C1-C2-C3-O3 |
| 31 | e | 317 | LHG | C1-C2-C3-O3 |
| 29 | B | 816 | CLA | C4-C3-C5-C6 |
| 29 | b | 306 | CLA | C4-C3-C5-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 610 | CLA | C2-C3-C5-C6 |
| 29 | B | 825 | CLA | C13-C15-C16-C17 |
| 29 | m | 610 | CLA | C5-C6-C7-C8 |
| 29 | A | 822 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 850 | CLA | C2A-CAA-CBA-CGA |
| 29 | F | 203 | CLA | C2A-CAA-CBA-CGA |
| 29 | m | 612 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 307 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 309 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | d | 305 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 818 | CLA | C16-C17-C18-C20 |
| 29 | a | 302 | CLA | C16-C17-C18-C19 |
| 29 | f | 613 | CLA | C16-C17-C18-C19 |
| 29 | b | 307 | CLA | C3-C5-C6-C7 |
| 29 | n | 608 | CLA | C3-C5-C6-C7 |
| 29 | B | 826 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 841 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 307 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 308 | CLA | CBA-CGA-O2A-C1 |
| 38 | J | 103 | II0 | C28-C26-C30-C32 |
| 38 | a | 313 | II0 | C27-C25-C29-C31 |
| 38 | a | 313 | II0 | C28-C26-C30-C32 |
| 38 | a | 314 | II0 | C27-C25-C29-C31 |
| 38 | a | 317 | II0 | C28-C26-C30-C32 |
| 38 | m | 614 | II0 | C28-C26-C30-C32 |
| 38 | m | 615 | II0 | C27-C25-C29-C31 |
| 38 | m | 616 | II0 | C27-C25-C29-C31 |
| 38 | e | 312 | II0 | C27-C25-C29-C31 |
| 38 | e | 316 | II0 | C27-C25-C29-C31 |
| 38 | l | 313 | II0 | C27-C25-C29-C31 |
| 38 | k | 615 | II0 | C28-C26-C30-C32 |
| 38 | k | 616 | II0 | C27-C25-C29-C31 |
| 38 | i | 313 | II0 | C27-C25-C29-C31 |
| 38 | i | 314 | II0 | C28-C26-C30-C32 |
| 38 | i | 316 | II0 | C28-C26-C30-C32 |
| 38 | j | 301 | II0 | C28-C26-C30-C32 |
| 38 | j | 316 | II0 | C27-C25-C29-C31 |
| 38 | d | 301 | II0 | C27-C25-C29-C31 |
| 38 | g | 319 | II0 | C27-C25-C29-C31 |
| 39 | O | 204 | IHT | C28-C26-C29-C31 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 39 | g | 320 | IHT | C28-C26-C29-C31 |
| 29 | A | 808 | CLA | C15-C16-C17-C18 |
| 32 | A | 847 | WVN | C32-C36-C39-C40 |
| 32 | B | 849 | WVN | C25-C28-C30-C33 |
| 32 | F | 204 | WVN | C32-C36-C39-C40 |
| 32 | F | 205 | WVN | C22-C26-C29-C31 |
| 32 | J | 101 | WVN | C32-C36-C39-C40 |
| 32 | h | 308 | WVN | C25-C28-C30-C33 |
| 32 | e | 315 | WVN | C22-C26-C29-C31 |
| 38 | e | 316 | II0 | C25-C29-C31-C33 |
| 38 | l | 313 | II0 | C25-C29-C31-C33 |
| 38 | k | 615 | II0 | C26-C30-C32-C34 |
| 38 | i | 314 | II0 | C26-C30-C32-C34 |
| 31 | A | 842 | LHG | C30-C31-C32-C33 |
| 36 | B | 844 | DGD | C7B-C8B-C9B-CAB |
| 37 | c | 318 | LMG | C18-C19-C20-C21 |
| 37 | c | 318 | LMG | C29-C30-C31-C32 |
| 29 | B | 805 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 601 | CLA | CBD-CGD-O2D-CED |
| 31 | f | 620 | LHG | C8-C7-O7-C5 |
| 37 | c | 317 | LMG | C11-C10-O7-C8 |
| 29 | B | 812 | CLA | C8-C10-C11-C12 |
| 29 | b | 310 | CLA | C10-C11-C12-C13 |
| 32 | A | 844 | WVN | C24-C22-C26-C29 |
| 32 | A | 854 | WVN | C24-C22-C26-C29 |
| 32 | B | 847 | WVN | C24-C22-C26-C29 |
| 32 | L | 201 | WVN | C24-C22-C26-C29 |
| 32 | K | 103 | WVN | C38-C34-C37-C40 |
| 32 | s | 405 | WVN | C24-C22-C26-C29 |
| 32 | s | 405 | WVN | C38-C34-C37-C40 |
| 32 | h | 308 | WVN | C38-C34-C37-C40 |
| 32 | e | 315 | WVN | C38-C34-C37-C40 |
| 32 | l | 302 | WVN | C24-C22-C26-C29 |
| 32 | i | 315 | WVN | C27-C25-C28-C30 |
| 38 | a | 315 | II0 | C38-C36-C40-C42 |
| 38 | b | 314 | II0 | C38-C36-C40-C42 |
| 38 | h | 310 | II0 | C38-C36-C40-C42 |
| 38 | e | 312 | II0 | C37-C35-C39-C41 |
| 38 | e | 312 | II0 | C38-C36-C40-C42 |
| 38 | e | 314 | II0 | C38-C36-C40-C42 |
| 38 | k | 620 | II0 | C38-C36-C40-C42 |
| 38 | f | 618 | II0 | C38-C36-C40-C42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | i | 316 | II0 | C38-C36-C40-C42 |
| 38 | j | 315 | II0 | C38-C36-C40-C42 |
| 38 | n | 615 | II0 | C38-C36-C40-C42 |
| 31 | s | 408 | LHG | C27-C28-C29-C30 |
| 31 | a | 301 | LHG | C24-C25-C26-C27 |
| 31 | a | 301 | LHG | C31-C32-C33-C34 |
| 31 | b | 318 | LHG | C26-C27-C28-C29 |
| 31 | l | 318 | LHG | C11-C10-C9-C8 |
| 31 | f | 619 | LHG | C11-C10-C9-C8 |
| 31 | f | 619 | LHG | C32-C33-C34-C35 |
| 31 | g | 322 | LHG | C27-C28-C29-C30 |
| 33 | A | 855 | LMU | C4-C5-C6-C7 |
| 35 | A | 853 | SQD | C11-C10-C9-C8 |
| 35 | A | 853 | SQD | C12-C13-C14-C15 |
| 36 | j | 319 | DGD | C6B-C7B-C8B-C9B |
| 37 | c | 317 | LMG | C22-C23-C24-C25 |
| 37 | c | 318 | LMG | C16-C17-C18-C19 |
| 37 | Q | 301 | LMG | C31-C32-C33-C34 |
| 29 | d | 306 | CLA | O1D-CGD-O2D-CED |
| 40 | g | 314 | KC2 | C2A-CAA-CBA-CGA |
| 29 | B | 810 | CLA | C16-C17-C18-C20 |
| 29 | B | 834 | CLA | C16-C17-C18-C20 |
| 29 | c | 302 | CLA | C11-C12-C13-C14 |
| 29 | b | 303 | CLA | C6-C7-C8-C9 |
| 29 | i | 303 | CLA | C16-C17-C18-C19 |
| 29 | L | 207 | CLA | CBA-CGA-O2A-C1 |
| 29 | g | 304 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 312 | CLA | C4C-C3C-CAC-CBC |
| 31 | J | 104 | LHG | C9-C10-C11-C12 |
| 31 | s | 408 | LHG | C29-C30-C31-C32 |
| 31 | s | 408 | LHG | C32-C33-C34-C35 |
| 36 | j | 319 | DGD | C7B-C8B-C9B-CAB |
| 29 | h | 301 | CLA | O1D-CGD-O2D-CED |
| 29 | i | 303 | CLA | O1D-CGD-O2D-CED |
| 31 | L | 208 | LHG | C23-C24-C25-C26 |
| 31 | A | 842 | LHG | C11-C10-C9-C8 |
| 31 | A | 842 | LHG | C24-C25-C26-C27 |
| 31 | L | 208 | LHG | C32-C33-C34-C35 |
| 31 | f | 619 | LHG | C28-C29-C30-C31 |
| 33 | A | 849 | LMU | C11-C10-C9-C8 |
| 37 | Q | 301 | LMG | C15-C16-C17-C18 |
| 31 | m | 619 | LHG | C27-C28-C29-C30 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | g | 301 | LHG | C10-C11-C12-C13 |
| 36 | j | 319 | DGD | C6A-C7A-C8A-C9A |
| 37 | n | 620 | LMG | C36-C37-C38-C39 |
| 31 | j | 318 | LHG | O2-C2-C3-O3 |
| 31 | g | 301 | LHG | O2-C2-C3-O3 |
| 31 | n | 619 | LHG | C11-C10-C9-C8 |
| 29 | k | 604 | CLA | C3-C5-C6-C7 |
| 29 | F | 203 | CLA | C3-C5-C6-C7 |
| 29 | g | 309 | CLA | O1D-CGD-O2D-CED |
| 40 | g | 313 | KC2 | O1D-CGD-O2D-CED |
| 32 | A | 844 | WVN | C33-C34-C37-C40 |
| 32 | A | 845 | WVN | C33-C34-C37-C40 |
| 32 | B | 846 | WVN | C33-C34-C37-C40 |
| 32 | B | 848 | WVN | C19-C22-C26-C29 |
| 32 | F | 204 | WVN | C33-C34-C37-C40 |
| 32 | F | 207 | WVN | C33-C34-C37-C40 |
| 32 | J | 101 | WVN | C19-C22-C26-C29 |
| 32 | J | 101 | WVN | C33-C34-C37-C40 |
| 32 | L | 201 | WVN | C33-C34-C37-C40 |
| 32 | L | 205 | WVN | C33-C34-C37-C40 |
| 32 | L | 206 | WVN | C19-C22-C26-C29 |
| 32 | M | 101 | WVN | C19-C22-C26-C29 |
| 32 | s | 405 | WVN | C19-C22-C26-C29 |
| 32 | s | 407 | WVN | C19-C22-C26-C29 |
| 32 | h | 308 | WVN | C23-C25-C28-C30 |
| 32 | l | 302 | WVN | C19-C22-C26-C29 |
| 32 | l | 316 | WVN | C33-C34-C37-C40 |
| 32 | i | 315 | WVN | C33-C34-C37-C40 |
| 32 | R | 201 | WVN | C19-C22-C26-C29 |
| 32 | R | 202 | WVN | C23-C25-C28-C30 |
| 38 | a | 317 | II0 | C34-C36-C40-C42 |
| 38 | b | 314 | II0 | C33-C35-C39-C41 |
| 38 | h | 309 | II0 | C33-C35-C39-C41 |
| 38 | m | 614 | II0 | C34-C36-C40-C42 |
| 38 | e | 314 | II0 | C34-C36-C40-C42 |
| 38 | l | 313 | II0 | C34-C36-C40-C42 |
| 38 | k | 615 | II0 | C33-C35-C39-C41 |
| 38 | k | 616 | II0 | C33-C35-C39-C41 |
| 38 | f | 615 | II0 | C33-C35-C39-C41 |
| 38 | j | 301 | II0 | C33-C35-C39-C41 |
| 38 | j | 316 | II0 | C33-C35-C39-C41 |
| 38 | d | 315 | II0 | C34-C36-C40-C42 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | d | 317 | II0 | C34-C36-C40-C42 |
| 31 | A | 842 | LHG | C9-C10-C11-C12 |
| 31 | A | 842 | LHG | C28-C29-C30-C31 |
| 31 | f | 620 | LHG | C27-C28-C29-C30 |
| 37 | F | 206 | LMG | C30-C31-C32-C33 |
| 37 | F | 206 | LMG | C31-C32-C33-C34 |
| 29 | B | 841 | CLA | C15-C16-C17-C18 |
| 29 | l | 306 | CLA | C8-C10-C11-C12 |
| 29 | B | 826 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 841 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 302 | CLA | O1A-CGA-O2A-C1 |
| 31 | a | 318 | LHG | O10-C23-O8-C6 |
| 29 | e | 305 | CLA | C16-C17-C18-C19 |
| 29 | e | 311 | CLA | C16-C17-C18-C19 |
| 29 | B | 838 | CLA | O1D-CGD-O2D-CED |
| 29 | k | 604 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 828 | CLA | C4-C3-C5-C6 |
| 29 | B | 836 | CLA | C4-C3-C5-C6 |
| 29 | e | 305 | CLA | C4-C3-C5-C6 |
| 29 | l | 308 | CLA | C4-C3-C5-C6 |
| 29 | n | 608 | CLA | C4-C3-C5-C6 |
| 31 | b | 318 | LHG | C12-C13-C14-C15 |
| 31 | e | 317 | LHG | C27-C28-C29-C30 |
| 31 | g | 301 | LHG | C27-C28-C29-C30 |
| 37 | F | 206 | LMG | C40-C41-C42-C43 |
| 37 | n | 620 | LMG | C29-C30-C31-C32 |
| 29 | m | 603 | CLA | C2-C3-C5-C6 |
| 29 | A | 825 | CLA | C11-C12-C13-C14 |
| 29 | B | 841 | CLA | C6-C7-C8-C9 |
| 29 | b | 311 | CLA | C11-C12-C13-C14 |
| 29 | e | 304 | CLA | C6-C7-C8-C9 |
| 29 | l | 310 | CLA | C11-C10-C8-C9 |
| 29 | n | 610 | CLA | C6-C7-C8-C9 |
| 29 | A | 824 | CLA | O1D-CGD-O2D-CED |
| 29 | f | 602 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 841 | CLA | C2C-C3C-CAC-CBC |
| 31 | f | 619 | LHG | C24-C25-C26-C27 |
| 31 | f | 620 | LHG | C26-C27-C28-C29 |
| 31 | g | 301 | LHG | C11-C12-C13-C14 |
| 31 | g | 301 | LHG | C14-C15-C16-C17 |
| 31 | g | 301 | LHG | C28-C29-C30-C31 |
| 31 | g | 301 | LHG | C32-C33-C34-C35 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | n | 619 | LHG | C29-C30-C31-C32 |
| 33 | i | 301 | LMU | C2-C3-C4-C5 |
| 33 | i | 301 | LMU | C4-C5-C6-C7 |
| 35 | A | 853 | SQD | C16-C17-C18-C19 |
| 37 | F | 208 | LMG | C16-C17-C18-C19 |
| 37 | L | 210 | LMG | C30-C31-C32-C33 |
| 37 | c | 317 | LMG | C18-C19-C20-C21 |
| 37 | b | 319 | LMG | C35-C36-C37-C38 |
| 29 | f | 609 | CLA | C15-C16-C17-C18 |
| 29 | A | 808 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 802 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 303 | CLA | C2A-CAA-CBA-CGA |
| 29 | g | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | g | 303 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 825 | CLA | O1A-CGA-O2A-C1 |
| 29 | f | 612 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 607 | CLA | O1A-CGA-O2A-C1 |
| 32 | A | 845 | WVN | C29-C31-C32-C35 |
| 32 | A | 847 | WVN | C11-C19-C22-C24 |
| 32 | F | 207 | WVN | C29-C31-C32-C35 |
| 32 | I | 101 | WVN | C11-C19-C22-C24 |
| 32 | I | 101 | WVN | C29-C31-C32-C35 |
| 32 | L | 205 | WVN | C11-C19-C22-C24 |
| 32 | L | 205 | WVN | C29-C31-C32-C35 |
| 32 | K | 103 | WVN | C11-C19-C22-C24 |
| 32 | K | 103 | WVN | C29-C31-C32-C35 |
| 32 | s | 407 | WVN | C11-C19-C22-C24 |
| 32 | e | 315 | WVN | C11-C19-C22-C24 |
| 32 | l | 316 | WVN | C11-C19-C22-C24 |
| 32 | i | 315 | WVN | C11-C19-C22-C24 |
| 32 | i | 315 | WVN | C20-C23-C25-C27 |
| 32 | R | 201 | WVN | C20-C23-C25-C27 |
| 32 | R | 202 | WVN | C20-C23-C25-C27 |
| 38 | e | 313 | II0 | C31-C33-C35-C37 |
| 38 | l | 315 | II0 | C31-C33-C35-C37 |
| 38 | f | 614 | II0 | C31-C33-C35-C37 |
| 38 | i | 314 | II0 | C32-C34-C36-C38 |
| 38 | i | 316 | II0 | C32-C34-C36-C38 |
| 38 | i | 319 | II0 | C32-C34-C36-C38 |
| 38 | d | 315 | II0 | C32-C34-C36-C38 |
| 38 | g | 319 | II0 | C31-C33-C35-C37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | n | 618 | II0 | C32-C34-C36-C38 |
| 39 | g | 324 | IHT | C30-C32-C33-C36 |
| 31 | n | 619 | LHG | C31-C32-C33-C34 |
| 31 | n | 619 | LHG | C32-C33-C34-C35 |
| 33 | a | 319 | LMU | C3-C4-C5-C6 |
| 37 | F | 206 | LMG | C32-C33-C34-C35 |
| 31 | A | 843 | LHG | O1-C1-C2-C3 |
| 31 | c | 320 | LHG | O1-C1-C2-C3 |
| 31 | m | 619 | LHG | O1-C1-C2-C3 |
| 31 | e | 317 | LHG | O1-C1-C2-C3 |
| 31 | l | 318 | LHG | O1-C1-C2-C3 |
| 31 | i | 317 | LHG | O1-C1-C2-C3 |
| 31 | g | 301 | LHG | O1-C1-C2-C3 |
| 31 | n | 619 | LHG | O1-C1-C2-C3 |
| 32 | A | 844 | WVN | C11-C19-C22-C26 |
| 32 | A | 844 | WVN | C30-C33-C34-C37 |
| 32 | F | 205 | WVN | C30-C33-C34-C37 |
| 32 | F | 207 | WVN | C30-C33-C34-C37 |
| 32 | L | 206 | WVN | C20-C23-C25-C28 |
| 32 | K | 103 | WVN | C30-C33-C34-C37 |
| 32 | s | 405 | WVN | C30-C33-C34-C37 |
| 32 | l | 316 | WVN | C11-C19-C22-C26 |
| 32 | R | 202 | WVN | C20-C23-C25-C28 |
| 32 | R | 202 | WVN | C29-C31-C32-C36 |
| 38 | a | 314 | II0 | C32-C34-C36-C40 |
| 38 | b | 301 | II0 | C31-C33-C35-C39 |
| 38 | b | 301 | II0 | C32-C34-C36-C40 |
| 38 | h | 310 | II0 | C31-C33-C35-C39 |
| 38 | e | 312 | II0 | C31-C33-C35-C39 |
| 38 | l | 313 | II0 | C31-C33-C35-C39 |
| 38 | f | 614 | II0 | C32-C34-C36-C40 |
| 38 | i | 314 | II0 | C32-C34-C36-C40 |
| 38 | i | 319 | II0 | C32-C34-C36-C40 |
| 38 | g | 319 | II0 | C31-C33-C35-C39 |
| 38 | g | 319 | II0 | C32-C34-C36-C40 |
| 38 | n | 615 | II0 | C31-C33-C35-C39 |
| 29 | A | 826 | CLA | C3-C5-C6-C7 |
| 29 | A | 831 | CLA | C3-C5-C6-C7 |
| 29 | n | 607 | CLA | C3-C5-C6-C7 |
| 29 | A | 808 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 835 | CLA | C13-C15-C16-C17 |
| 37 | F | 206 | LMG | C11-C10-O7-C8 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | g | 301 | LHG | C13-C14-C15-C16 |
| 33 | A | 849 | LMU | C5-C6-C7-C8 |
| 37 | c | 318 | LMG | C31-C32-C33-C34 |
| 31 | L | 209 | LHG | C7-C8-C9-C10 |
| 31 | g | 301 | LHG | C7-C8-C9-C10 |
| 31 | J | 104 | LHG | C10-C11-C12-C13 |
| 31 | c | 316 | LHG | C27-C28-C29-C30 |
| 31 | f | 619 | LHG | C10-C11-C12-C13 |
| 31 | g | 301 | LHG | C11-C10-C9-C8 |
| 33 | A | 855 | LMU | C6-C7-C8-C9 |
| 37 | c | 317 | LMG | C23-C24-C25-C26 |
| 37 | c | 318 | LMG | C30-C31-C32-C33 |
| 28 | A | 801 | CL0 | C16-C17-C18-C19 |
| 29 | B | 834 | CLA | C16-C17-C18-C19 |
| 29 | K | 101 | CLA | C16-C17-C18-C19 |
| 29 | b | 303 | CLA | C6-C7-C8-C10 |
| 29 | e | 310 | CLA | C6-C7-C8-C10 |
| 29 | f | 613 | CLA | C16-C17-C18-C20 |
| 37 | L | 210 | LMG | O6-C1-O1-C7 |
| 29 | A | 810 | CLA | C13-C15-C16-C17 |
| 31 | a | 318 | LHG | C26-C27-C28-C29 |
| 31 | a | 318 | LHG | C27-C28-C29-C30 |
| 33 | A | 855 | LMU | C2-C3-C4-C5 |
| 36 | B | 844 | DGD | CEA-CFA-CGA-CHA |
| 37 | F | 206 | LMG | C18-C19-C20-C21 |
| 36 | j | 319 | DGD | C4D-C5D-C6D-O5D |
| 29 | B | 833 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 307 | CLA | CBD-CGD-O2D-CED |
| 31 | b | 318 | LHG | C30-C31-C32-C33 |
| 33 | A | 849 | LMU | C7-C8-C9-C10 |
| 35 | A | 853 | SQD | C9-C10-C11-C12 |
| 37 | F | 206 | LMG | C20-C21-C22-C23 |
| 37 | Q | 301 | LMG | C30-C31-C32-C33 |
| 31 | A | 842 | LHG | C23-C24-C25-C26 |
| 29 | B | 818 | CLA | C8-C10-C11-C12 |
| 29 | j | 302 | CLA | C8-C10-C11-C12 |
| 29 | F | 203 | CLA | O1A-CGA-O2A-C1 |
| 29 | c | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 312 | CLA | O1A-CGA-O2A-C1 |
| 31 | L | 208 | LHG | C11-C10-C9-C8 |
| 31 | a | 301 | LHG | C11-C10-C9-C8 |
| 31 | i | 317 | LHG | C27-C28-C29-C30 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 33 | a | 319 | LMU | C7-C8-C9-C10 |
| 36 | j | 319 | DGD | C4A-C5A-C6A-C7A |
| 37 | F | 206 | LMG | C33-C34-C35-C36 |
| 37 | n | 620 | LMG | C17-C18-C19-C20 |
| 37 | n | 620 | LMG | C31-C32-C33-C34 |
| 29 | A | 851 | CLA | C3-C5-C6-C7 |
| 29 | B | 806 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | n | 602 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 810 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 814 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 816 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 831 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 840 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 813 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 830 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 837 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 840 | CLA | C3A-C2A-CAA-CBA |
| 29 | O | 201 | CLA | C3A-C2A-CAA-CBA |
| 29 | K | 101 | CLA | C3A-C2A-CAA-CBA |
| 29 | c | 301 | CLA | C3A-C2A-CAA-CBA |
| 29 | c | 306 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 306 | CLA | C3A-C2A-CAA-CBA |
| 29 | h | 304 | CLA | C3A-C2A-CAA-CBA |
| 29 | h | 306 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 603 | CLA | C3A-C2A-CAA-CBA |
| 29 | m | 613 | CLA | C3A-C2A-CAA-CBA |
| 29 | k | 614 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 605 | CLA | C3A-C2A-CAA-CBA |
| 29 | j | 306 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 307 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 316 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 601 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 603 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 604 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 830 | CLA | C8-C10-C11-C12 |
| 29 | B | 834 | CLA | C13-C15-C16-C17 |
| 29 | e | 306 | CLA | C8-C10-C11-C12 |
| 37 | c | 317 | LMG | O6-C5-C6-O5 |
| 32 | s | 407 | WVN | C25-C28-C30-C33 |
| 38 | k | 617 | II0 | C35-C39-C41-C42 |
| 39 | c | 315 | IHT | C33-C37-C40-C41 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 33 | i | 301 | LMU | C2-C1-O1'-C1' |
| 31 | J | 104 | LHG | C12-C13-C14-C15 |
| 31 | s | 408 | LHG | C24-C25-C26-C27 |
| 31 | c | 320 | LHG | C24-C25-C26-C27 |
| 31 | f | 620 | LHG | C11-C10-C9-C8 |
| 37 | b | 319 | LMG | C33-C34-C35-C36 |
| 29 | l | 301 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 302 | CLA | C11-C12-C13-C15 |
| 29 | a | 302 | CLA | C16-C17-C18-C20 |
| 29 | e | 311 | CLA | C16-C17-C18-C20 |
| 31 | a | 301 | LHG | C27-C28-C29-C30 |
| 36 | B | 844 | DGD | C2A-C3A-C4A-C5A |
| 29 | B | 802 | CLA | O1D-CGD-O2D-CED |
| 37 | F | 208 | LMG | C7-C8-C9-O8 |
| 29 | k | 607 | CLA | CBD-CGD-O2D-CED |
| 31 | a | 301 | LHG | C9-C10-C11-C12 |
| 29 | A | 823 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 802 | CLA | C3-C5-C6-C7 |
| 29 | c | 312 | CLA | C3-C5-C6-C7 |
| 31 | f | 620 | LHG | C7-C8-C9-C10 |
| 31 | g | 322 | LHG | C7-C8-C9-C10 |
| 37 | Q | 301 | LMG | C28-C29-C30-C31 |
| 29 | A | 838 | CLA | C4-C3-C5-C6 |
| 29 | h | 306 | CLA | C4-C3-C5-C6 |
| 29 | m | 603 | CLA | C4-C3-C5-C6 |
| 29 | B | 827 | CLA | CBA-CGA-O2A-C1 |
| 29 | i | 304 | CLA | CBA-CGA-O2A-C1 |
| 37 | O | 205 | LMG | C4-C5-C6-O5 |
| 29 | A | 828 | CLA | C2-C3-C5-C6 |
| 29 | A | 838 | CLA | C2-C3-C5-C6 |
| 29 | B | 836 | CLA | C2-C3-C5-C6 |
| 29 | h | 306 | CLA | C2-C3-C5-C6 |
| 29 | l | 308 | CLA | C2-C3-C5-C6 |
| 29 | n | 608 | CLA | C2-C3-C5-C6 |
| 29 | m | 606 | CLA | CBD-CGD-O2D-CED |
| 37 | F | 206 | LMG | C37-C38-C39-C40 |
| 29 | j | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 804 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 822 | CLA | C2A-CAA-CBA-CGA |
| 31 | A | 843 | LHG | O1-C1-C2-O2 |
| 31 | L | 209 | LHG | O1-C1-C2-O2 |
| 31 | e | 317 | LHG | O1-C1-C2-O2 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | l | 318 | LHG | O1-C1-C2-O2 |
| 29 | b | 305 | CLA | C8-C10-C11-C12 |
| 31 | A | 848 | LHG | C11-C10-C9-C8 |
| 31 | L | 209 | LHG | C24-C25-C26-C27 |
| 35 | A | 853 | SQD | C14-C15-C16-C17 |
| 36 | B | 844 | DGD | C8A-C9A-CAA-CBA |
| 29 | h | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 308 | CLA | O1A-CGA-O2A-C1 |
| 31 | A | 848 | LHG | C7-C8-C9-C10 |
| 29 | B | 818 | CLA | C16-C17-C18-C19 |
| 29 | A | 818 | CLA | C2C-C3C-CAC-CBC |
| 31 | J | 104 | LHG | C11-C10-C9-C8 |
| 31 | L | 209 | LHG | C9-C10-C11-C12 |
| 31 | b | 318 | LHG | C29-C30-C31-C32 |
| 33 | a | 319 | LMU | C1-C2-C3-C4 |
| 31 | L | 209 | LHG | O2-C2-C3-O3 |
| 29 | c | 302 | CLA | C8-C10-C11-C12 |
| 29 | k | 609 | CLA | C5-C6-C7-C8 |
| 37 | F | 206 | LMG | C16-C17-C18-C19 |
| 29 | B | 807 | CLA | C3-C5-C6-C7 |
| 29 | i | 308 | CLA | C3-C5-C6-C7 |
| 29 | m | 609 | CLA | CBA-CGA-O2A-C1 |
| 31 | L | 208 | LHG | C30-C31-C32-C33 |
| 31 | a | 301 | LHG | C30-C31-C32-C33 |
| 37 | F | 206 | LMG | C38-C39-C40-C41 |
| 37 | L | 210 | LMG | C13-C14-C15-C16 |
| 37 | b | 319 | LMG | C14-C15-C16-C17 |
| 29 | e | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | g | 304 | CLA | O1A-CGA-O2A-C1 |
| 31 | g | 301 | LHG | C23-C24-C25-C26 |
| 29 | l | 310 | CLA | C5-C6-C7-C8 |
| 29 | e | 301 | CLA | CBD-CGD-O2D-CED |
| 31 | A | 843 | LHG | C1-C2-C3-O3 |
| 31 | j | 318 | LHG | C1-C2-C3-O3 |
| 37 | F | 206 | LMG | O6-C5-C6-O5 |
| 29 | B | 831 | CLA | C2-C1-O2A-CGA |
| 29 | b | 313 | CLA | C2-C1-O2A-CGA |
| 29 | h | 301 | CLA | C2-C1-O2A-CGA |
| 29 | h | 303 | CLA | C2-C1-O2A-CGA |
| 31 | a | 301 | LHG | C28-C29-C30-C31 |
| 29 | A | 816 | CLA | C13-C15-C16-C17 |
| 29 | A | 819 | CLA | C13-C15-C16-C17 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 828 | CLA | C15-C16-C17-C18 |
| 29 | A | 837 | CLA | C13-C15-C16-C17 |
| 29 | B | 822 | CLA | C13-C15-C16-C17 |
| 29 | B | 836 | CLA | C8-C10-C11-C12 |
| 29 | i | 304 | CLA | C10-C11-C12-C13 |
| 29 | L | 207 | CLA | O1A-CGA-O2A-C1 |
| 31 | j | 318 | LHG | C9-C10-C11-C12 |
| 33 | a | 319 | LMU | C11-C10-C9-C8 |
| 36 | j | 319 | DGD | CDB-CEB-CFB-CGB |
| 28 | A | 801 | CL0 | C16-C17-C18-C20 |
| 29 | s | 402 | CLA | C3-C5-C6-C7 |
| 32 | A | 844 | WVN | C15-C13-C20-C23 |
| 32 | B | 846 | WVN | C15-C13-C20-C23 |
| 32 | L | 205 | WVN | C15-C13-C20-C23 |
| 32 | L | 206 | WVN | C15-C13-C20-C23 |
| 32 | s | 405 | WVN | C06-C13-C20-C23 |
| 32 | e | 315 | WVN | C06-C13-C20-C23 |
| 32 | l | 302 | WVN | C06-C13-C20-C23 |
| 32 | l | 316 | WVN | C15-C13-C20-C23 |
| 32 | i | 315 | WVN | C06-C13-C20-C23 |
| 39 | a | 316 | IHT | C10-C07-C18-C22 |
| 39 | m | 617 | IHT | C02-C07-C18-C22 |
| 39 | m | 617 | IHT | C10-C07-C18-C22 |
| 31 | a | 301 | LHG | C32-C33-C34-C35 |
| 29 | F | 202 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 301 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 602 | CLA | CBA-CGA-O2A-C1 |
| 31 | a | 301 | LHG | C24-C23-O8-C6 |
| 29 | a | 309 | CLA | O2A-C1-C2-C3 |
| 29 | i | 312 | CLA | O1D-CGD-O2D-CED |
| 31 | a | 301 | LHG | C23-C24-C25-C26 |
| 33 | A | 855 | LMU | C7-C8-C9-C10 |
| 37 | c | 317 | LMG | C15-C16-C17-C18 |
| 29 | c | 305 | CLA | C10-C11-C12-C13 |
| 29 | f | 613 | CLA | C8-C10-C11-C12 |
| 29 | b | 310 | CLA | O1D-CGD-O2D-CED |
| 37 | F | 208 | LMG | O6-C5-C6-O5 |
| 29 | a | 306 | CLA | C2C-C3C-CAC-CBC |
| 31 | c | 316 | LHG | C9-C10-C11-C12 |
| 31 | c | 316 | LHG | C30-C31-C32-C33 |
| 29 | B | 803 | CLA | C4-C3-C5-C6 |
| 29 | B | 806 | CLA | C4-C3-C5-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 812 | CLA | C4-C3-C5-C6 |
| 29 | g | 310 | CLA | C4-C3-C5-C6 |
| 29 | B | 830 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 816 | CLA | C6-C7-C8-C10 |
| 29 | A | 831 | CLA | C6-C7-C8-C10 |
| 29 | A | 833 | CLA | C12-C13-C15-C16 |
| 29 | A | 840 | CLA | C6-C7-C8-C10 |
| 29 | B | 801 | CLA | C11-C10-C8-C7 |
| 29 | B | 806 | CLA | C2-C3-C5-C6 |
| 29 | B | 812 | CLA | C2-C3-C5-C6 |
| 29 | B | 813 | CLA | C2-C3-C5-C6 |
| 29 | B | 813 | CLA | C6-C7-C8-C10 |
| 29 | B | 816 | CLA | C12-C13-C15-C16 |
| 29 | B | 819 | CLA | C12-C13-C15-C16 |
| 29 | B | 829 | CLA | C6-C7-C8-C10 |
| 29 | B | 839 | CLA | C6-C7-C8-C10 |
| 29 | B | 841 | CLA | C6-C7-C8-C10 |
| 29 | F | 202 | CLA | C6-C7-C8-C10 |
| 29 | s | 403 | CLA | C6-C7-C8-C10 |
| 29 | a | 311 | CLA | C11-C12-C13-C15 |
| 29 | b | 311 | CLA | C11-C12-C13-C15 |
| 29 | m | 608 | CLA | C12-C13-C15-C16 |
| 29 | e | 304 | CLA | C6-C7-C8-C10 |
| 29 | e | 305 | CLA | C2-C3-C5-C6 |
| 29 | e | 306 | CLA | C2-C3-C5-C6 |
| 29 | l | 310 | CLA | C11-C10-C8-C7 |
| 29 | k | 608 | CLA | C6-C7-C8-C10 |
| 29 | f | 613 | CLA | C11-C10-C8-C7 |
| 29 | i | 308 | CLA | C6-C7-C8-C10 |
| 29 | j | 305 | CLA | C11-C12-C13-C15 |
| 29 | d | 302 | CLA | C11-C12-C13-C15 |
| 29 | d | 302 | CLA | C12-C13-C15-C16 |
| 29 | g | 302 | CLA | C11-C12-C13-C15 |
| 29 | g | 309 | CLA | C11-C10-C8-C7 |
| 29 | g | 310 | CLA | C12-C13-C15-C16 |
| 29 | n | 610 | CLA | C2-C3-C5-C6 |
| 29 | Q | 302 | CLA | C2-C3-C5-C6 |
| 29 | B | 806 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 827 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 304 | CLA | O1A-CGA-O2A-C1 |
| 31 | L | 208 | LHG | C24-C25-C26-C27 |
| 35 | A | 853 | SQD | C25-C26-C27-C28 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | b | 303 | CLA | C5-C6-C7-C8 |
| 29 | m | 613 | CLA | C15-C16-C17-C18 |
| 29 | j | 314 | CLA | C15-C16-C17-C18 |
| 32 | J | 101 | WVN | C25-C28-C30-C33 |
| 32 | R | 201 | WVN | C32-C36-C39-C40 |
| 38 | J | 103 | II0 | C26-C30-C32-C34 |
| 38 | g | 319 | II0 | C26-C30-C32-C34 |
| 29 | B | 810 | CLA | C16-C17-C18-C19 |
| 29 | B | 814 | CLA | C16-C17-C18-C20 |
| 29 | e | 305 | CLA | C16-C17-C18-C20 |
| 29 | i | 303 | CLA | C16-C17-C18-C20 |
| 28 | A | 801 | CL0 | CBA-CGA-O2A-C1 |
| 29 | A | 813 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 817 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 303 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 606 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 607 | CLA | CBA-CGA-O2A-C1 |
| 29 | j | 303 | CLA | CBA-CGA-O2A-C1 |
| 36 | B | 844 | DGD | CEB-CFB-CGB-CHB |
| 29 | A | 810 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 826 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 838 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | d | 313 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 817 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 829 | CLA | C15-C16-C17-C18 |
| 29 | m | 602 | CLA | C8-C10-C11-C12 |
| 29 | f | 608 | CLA | C15-C16-C17-C18 |
| 29 | i | 303 | CLA | C13-C15-C16-C17 |
| 29 | g | 302 | CLA | C8-C10-C11-C12 |
| 29 | A | 818 | CLA | C4C-C3C-CAC-CBC |
| 31 | L | 208 | LHG | C25-C26-C27-C28 |
| 31 | c | 320 | LHG | C29-C30-C31-C32 |
| 31 | e | 317 | LHG | C24-C25-C26-C27 |
| 33 | A | 849 | LMU | C2-C3-C4-C5 |
| 31 | c | 320 | LHG | C30-C31-C32-C33 |
| 37 | L | 210 | LMG | C18-C19-C20-C21 |
| 29 | c | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | f | 607 | CLA | C15-C16-C17-C18 |
| 31 | b | 318 | LHG | C25-C26-C27-C28 |
| 40 | k | 613 | KC2 | C2B-C3B-CAB-CBB |
| 31 | A | 842 | LHG | C31-C32-C33-C34 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 609 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 602 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 806 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 836 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 811 | CLA | CBA-CGA-O2A-C1 |
| 29 | m | 612 | CLA | CBA-CGA-O2A-C1 |
| 36 | j | 319 | DGD | O6D-C1D-O3G-C3G |
| 37 | b | 319 | LMG | O6-C1-O1-C7 |
| 29 | B | 813 | CLA | C5-C6-C7-C8 |
| 29 | B | 829 | CLA | C5-C6-C7-C8 |
| 29 | F | 201 | CLA | C15-C16-C17-C18 |
| 33 | i | 301 | LMU | C7-C8-C9-C10 |
| 37 | O | 205 | LMG | C11-C10-O7-C8 |
| 31 | A | 842 | LHG | C32-C33-C34-C35 |
| 40 | k | 612 | KC2 | C4C-C3C-CAC-CBC |
| 40 | k | 613 | KC2 | C4B-C3B-CAB-CBB |
| 40 | i | 318 | KC2 | C4C-C3C-CAC-CBC |
| 40 | g | 315 | KC2 | C4B-C3B-CAB-CBB |
| 29 | B | 806 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 840 | CLA | C3-C5-C6-C7 |
| 29 | R | 203 | CLA | C3-C5-C6-C7 |
| 31 | b | 318 | LHG | C32-C33-C34-C35 |
| 36 | j | 319 | DGD | C2D-C1D-O3G-C3G |
| 31 | J | 104 | LHG | O7-C5-C6-O8 |
| 31 | L | 209 | LHG | O7-C5-C6-O8 |
| 31 | a | 318 | LHG | O7-C5-C6-O8 |
| 33 | B | 850 | LMU | O5'-C5'-C6'-O6' |
| 36 | B | 844 | DGD | CAB-CBB-CCB-CDB |
| 37 | c | 317 | LMG | C32-C33-C34-C35 |
| 31 | A | 848 | LHG | C14-C15-C16-C17 |
| 37 | b | 319 | LMG | O6-C5-C6-O5 |
| 29 | B | 813 | CLA | C4-C3-C5-C6 |
| 29 | B | 817 | CLA | C4-C3-C5-C6 |
| 29 | e | 306 | CLA | C4-C3-C5-C6 |
| 29 | Q | 302 | CLA | C4-C3-C5-C6 |
| 29 | B | 803 | CLA | C2-C3-C5-C6 |
| 29 | B | 816 | CLA | C2-C3-C5-C6 |
| 29 | b | 306 | CLA | C2-C3-C5-C6 |
| 29 | g | 310 | CLA | C2-C3-C5-C6 |
| 39 | R | 204 | IHT | C11-C21-C24-C26 |
| 29 | A | 816 | CLA | C6-C7-C8-C9 |
| 29 | A | 816 | CLA | C14-C13-C15-C16 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 830 | CLA | C11-C10-C8-C9 |
| 29 | A | 831 | CLA | C6-C7-C8-C9 |
| 29 | A | 833 | CLA | C14-C13-C15-C16 |
| 29 | A | 851 | CLA | C11-C10-C8-C9 |
| 29 | B | 807 | CLA | C14-C13-C15-C16 |
| 29 | B | 812 | CLA | C6-C7-C8-C9 |
| 29 | B | 813 | CLA | C6-C7-C8-C9 |
| 29 | B | 816 | CLA | C14-C13-C15-C16 |
| 29 | B | 825 | CLA | C6-C7-C8-C9 |
| 29 | B | 829 | CLA | C6-C7-C8-C9 |
| 29 | B | 836 | CLA | C6-C7-C8-C9 |
| 29 | s | 403 | CLA | C6-C7-C8-C9 |
| 29 | a | 308 | CLA | C14-C13-C15-C16 |
| 29 | m | 608 | CLA | C14-C13-C15-C16 |
| 29 | k | 608 | CLA | C6-C7-C8-C9 |
| 29 | f | 604 | CLA | C14-C13-C15-C16 |
| 29 | i | 308 | CLA | C6-C7-C8-C9 |
| 29 | j | 305 | CLA | C11-C12-C13-C14 |
| 29 | d | 302 | CLA | C11-C12-C13-C14 |
| 29 | d | 302 | CLA | C14-C13-C15-C16 |
| 29 | g | 302 | CLA | C11-C12-C13-C14 |
| 29 | g | 304 | CLA | C14-C13-C15-C16 |
| 29 | g | 309 | CLA | C11-C10-C8-C9 |
| 29 | g | 310 | CLA | C14-C13-C15-C16 |
| 29 | n | 608 | CLA | C6-C7-C8-C9 |
| 29 | B | 822 | CLA | O1D-CGD-O2D-CED |
| 31 | L | 208 | LHG | C12-C13-C14-C15 |
| 36 | B | 844 | DGD | C6A-C7A-C8A-C9A |
| 37 | F | 208 | LMG | C17-C18-C19-C20 |
| 29 | A | 819 | CLA | C3-C5-C6-C7 |
| 29 | L | 202 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 305 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | n | 602 | CLA | C2A-CAA-CBA-CGA |
| 32 | A | 844 | WVN | C11-C19-C22-C24 |
| 32 | K | 103 | WVN | C30-C33-C34-C38 |
| 32 | s | 405 | WVN | C30-C33-C34-C38 |
| 32 | l | 316 | WVN | C20-C23-C25-C27 |
| 38 | i | 313 | II0 | C31-C33-C35-C37 |
| 29 | i | 308 | CLA | C8-C10-C11-C12 |
| 30 | B | 843 | PQN | C20-C21-C22-C23 |
| 31 | b | 318 | LHG | C13-C14-C15-C16 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | A | 845 | WVN | C29-C31-C32-C36 |
| 32 | A | 854 | WVN | C20-C23-C25-C28 |
| 32 | L | 206 | WVN | C29-C31-C32-C36 |
| 32 | h | 308 | WVN | C11-C19-C22-C26 |
| 32 | h | 308 | WVN | C20-C23-C25-C28 |
| 32 | i | 315 | WVN | C11-C19-C22-C26 |
| 38 | j | 301 | II0 | C31-C33-C35-C39 |
| 29 | F | 202 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 606 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 808 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 817 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 827 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 831 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 805 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 815 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 817 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 825 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 830 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 835 | CLA | C1A-C2A-CAA-CBA |
| 29 | O | 202 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | c | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 303 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 312 | CLA | C1A-C2A-CAA-CBA |
| 29 | h | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | h | 304 | CLA | C1A-C2A-CAA-CBA |
| 29 | h | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 603 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 609 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 612 | CLA | C1A-C2A-CAA-CBA |
| 29 | e | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | e | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 605 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 613 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 313 | CLA | C1A-C2A-CAA-CBA |
| 29 | g | 307 | CLA | C1A-C2A-CAA-CBA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | g | 316 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 607 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 609 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 837 | CLA | C16-C17-C18-C20 |
| 29 | i | 302 | CLA | C16-C17-C18-C19 |
| 31 | j | 318 | LHG | C8-C7-O7-C5 |
| 38 | e | 313 | II0 | C26-C30-C32-C34 |
| 29 | c | 301 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 310 | CLA | C5-C6-C7-C8 |
| 31 | g | 301 | LHG | C4-O6-P-O3 |
| 29 | B | 837 | CLA | CBD-CGD-O2D-CED |
| 29 | g | 309 | CLA | C3-C5-C6-C7 |
| 33 | A | 849 | LMU | C4B-C5B-C6B-O6B |
| 29 | B | 810 | CLA | C15-C16-C17-C18 |
| 29 | B | 812 | CLA | C10-C11-C12-C13 |
| 29 | e | 304 | CLA | C5-C6-C7-C8 |
| 29 | A | 821 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 602 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 604 | CLA | CBA-CGA-O2A-C1 |
| 31 | i | 317 | LHG | O6-C4-C5-C6 |
| 31 | f | 620 | LHG | C25-C26-C27-C28 |
| 37 | L | 210 | LMG | C16-C17-C18-C19 |
| 31 | n | 619 | LHG | C27-C28-C29-C30 |
| 29 | e | 302 | CLA | C15-C16-C17-C18 |
| 29 | n | 609 | CLA | C15-C16-C17-C18 |
| 29 | B | 814 | CLA | C16-C17-C18-C19 |
| 29 | K | 101 | CLA | C16-C17-C18-C20 |
| 33 | A | 855 | LMU | C5-C6-C7-C8 |
| 37 | c | 317 | LMG | C30-C31-C32-C33 |
| 33 | a | 319 | LMU | O5B-C5B-C6B-O6B |
| 37 | L | 210 | LMG | C19-C20-C21-C22 |
| 31 | c | 320 | LHG | C32-C33-C34-C35 |
| 31 | n | 619 | LHG | C1-C2-C3-O3 |
| 29 | O | 206 | CLA | C2-C3-C5-C6 |
| 36 | j | 319 | DGD | C8B-C9B-CAB-CBB |
| 37 | c | 318 | LMG | C32-C33-C34-C35 |
| 29 | e | 302 | CLA | C8-C10-C11-C12 |
| 36 | B | 844 | DGD | C5A-C6A-C7A-C8A |
| 36 | j | 319 | DGD | CCB-CDB-CEB-CFB |
| 31 | m | 619 | LHG | C8-C7-O7-C5 |
| 28 | A | 801 | CL0 | O1A-CGA-O2A-C1 |
| 29 | A | 817 | CLA | O1A-CGA-O2A-C1 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | b | 303 | CLA | O1A-CGA-O2A-C1 |
| 29 | j | 303 | CLA | O1A-CGA-O2A-C1 |
| 31 | L | 209 | LHG | C27-C28-C29-C30 |
| 37 | c | 317 | LMG | C31-C32-C33-C34 |
| 29 | e | 310 | CLA | C6-C7-C8-C9 |
| 29 | l | 301 | CLA | C16-C17-C18-C20 |
| 29 | B | 812 | CLA | C3-C5-C6-C7 |
| 31 | J | 104 | LHG | C4-C5-C6-O8 |
| 31 | a | 318 | LHG | C4-C5-C6-O8 |
| 31 | e | 317 | LHG | C4-C5-C6-O8 |
| 31 | e | 317 | LHG | C10-C11-C12-C13 |
| 36 | B | 844 | DGD | O1G-C1G-C2G-C3G |
| 37 | Q | 301 | LMG | C7-C8-C9-O8 |
| 29 | b | 306 | CLA | C10-C11-C12-C13 |
| 29 | A | 811 | CLA | C6-C7-C8-C9 |
| 36 | B | 844 | DGD | C3B-C4B-C5B-C6B |
| 37 | n | 620 | LMG | C32-C33-C34-C35 |
| 29 | A | 813 | CLA | O1A-CGA-O2A-C1 |
| 29 | h | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 816 | CLA | C2C-C3C-CAC-CBC |
| 31 | l | 318 | LHG | C27-C28-C29-C30 |
| 35 | A | 853 | SQD | C11-C12-C13-C14 |
| 37 | F | 206 | LMG | C22-C23-C24-C25 |
| 29 | B | 820 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 841 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 837 | CLA | C15-C16-C17-C18 |
| 29 | R | 203 | CLA | C5-C6-C7-C8 |
| 29 | l | 310 | CLA | C14-C13-C15-C16 |
| 38 | l | 314 | II0 | C27-C25-C29-C31 |
| 29 | k | 607 | CLA | O1A-CGA-O2A-C1 |
| 29 | c | 307 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 602 | CLA | C15-C16-C17-C18 |
| 37 | Q | 301 | LMG | C17-C18-C19-C20 |
| 31 | m | 619 | LHG | O1-C1-C2-O2 |
| 31 | g | 301 | LHG | O1-C1-C2-O2 |
| 31 | n | 619 | LHG | O1-C1-C2-O2 |
| 38 | a | 317 | II0 | C26-C30-C32-C34 |
| 38 | d | 319 | II0 | C35-C39-C41-C42 |
| 31 | f | 619 | LHG | C31-C32-C33-C34 |
| 29 | A | 811 | CLA | O1A-CGA-O2A-C1 |
| 37 | c | 318 | LMG | C11-C12-C13-C14 |
| 29 | j | 308 | CLA | O1D-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 839 | CLA | C5-C6-C7-C8 |
| 32 | A | 854 | WVN | C38-C34-C37-C40 |
| 29 | A | 818 | CLA | C4-C3-C5-C6 |
| 29 | F | 202 | CLA | C4-C3-C5-C6 |
| 29 | O | 206 | CLA | C4-C3-C5-C6 |
| 29 | e | 304 | CLA | C4-C3-C5-C6 |
| 29 | F | 202 | CLA | C2-C3-C5-C6 |
| 29 | A | 813 | CLA | O1D-CGD-O2D-CED |
| 40 | d | 312 | KC2 | C2A-CAA-CBA-CGA |
| 40 | n | 612 | KC2 | C2A-CAA-CBA-CGA |
| 29 | A | 826 | CLA | CBA-CGA-O2A-C1 |
| 29 | k | 614 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 603 | CLA | CBA-CGA-O2A-C1 |
| 29 | Q | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | n | 604 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 311 | CLA | C10-C11-C12-C13 |
| 29 | Q | 302 | CLA | O1D-CGD-O2D-CED |
| 31 | f | 620 | LHG | C6-C5-O7-C7 |
| 36 | B | 844 | DGD | C3G-C2G-O2G-C1B |
| 37 | F | 206 | LMG | C9-C8-O7-C10 |
| 37 | c | 317 | LMG | C7-C8-O7-C10 |
| 37 | Q | 301 | LMG | C7-C8-O7-C10 |
| 29 | n | 608 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 307 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 306 | CLA | C2A-CAA-CBA-CGA |
| 29 | c | 308 | CLA | C10-C11-C12-C13 |
| 29 | i | 308 | CLA | C15-C16-C17-C18 |
| 29 | i | 312 | CLA | C15-C16-C17-C18 |
| 29 | B | 805 | CLA | C2-C1-O2A-CGA |
| 29 | g | 307 | CLA | C2-C1-O2A-CGA |
| 29 | O | 206 | CLA | C3-C5-C6-C7 |
| 31 | L | 209 | LHG | C28-C29-C30-C31 |
| 29 | B | 836 | CLA | O1D-CGD-O2D-CED |
| 29 | f | 602 | CLA | C15-C16-C17-C18 |
| 29 | j | 311 | CLA | C8-C10-C11-C12 |
| 31 | s | 408 | LHG | C4-O6-P-O5 |
| 33 | A | 849 | LMU | C6-C7-C8-C9 |
| 37 | F | 206 | LMG | C17-C18-C19-C20 |
| 29 | s | 402 | CLA | CBA-CGA-O2A-C1 |
| 29 | c | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 301 | CLA | CBA-CGA-O2A-C1 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | l | 304 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 604 | CLA | O1A-CGA-O2A-C1 |
| 29 | F | 201 | CLA | C16-C17-C18-C20 |
| 29 | e | 307 | CLA | C16-C17-C18-C19 |
| 29 | i | 302 | CLA | C16-C17-C18-C20 |
| 29 | b | 306 | CLA | C15-C16-C17-C18 |
| 29 | e | 306 | CLA | C15-C16-C17-C18 |
| 29 | g | 302 | CLA | C5-C6-C7-C8 |
| 31 | l | 318 | LHG | O2-C2-C3-O3 |
| 33 | a | 319 | LMU | C4'-C5'-C6'-O6' |
| 29 | m | 612 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 602 | CLA | O1A-CGA-O2A-C1 |
| 32 | e | 315 | WVN | C31-C32-C36-C39 |
| 37 | L | 210 | LMG | C2-C1-O1-C7 |
| 31 | j | 318 | LHG | C24-C25-C26-C27 |
| 37 | c | 318 | LMG | C33-C34-C35-C36 |
| 36 | B | 844 | DGD | O1G-C1G-C2G-O2G |
| 37 | F | 208 | LMG | O7-C8-C9-O8 |
| 37 | L | 210 | LMG | O1-C7-C8-O7 |
| 37 | L | 210 | LMG | C32-C33-C34-C35 |
| 37 | c | 317 | LMG | C21-C22-C23-C24 |
| 29 | g | 302 | CLA | C10-C11-C12-C13 |
| 29 | A | 821 | CLA | O1A-CGA-O2A-C1 |
| 29 | s | 402 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 301 | CLA | O1A-CGA-O2A-C1 |
| 31 | L | 209 | LHG | C13-C14-C15-C16 |
| 33 | B | 850 | LMU | C2-C3-C4-C5 |
| 37 | F | 206 | LMG | C13-C14-C15-C16 |
| 33 | a | 319 | LMU | C6-C7-C8-C9 |
| 29 | A | 810 | CLA | C6-C7-C8-C10 |
| 29 | A | 810 | CLA | C11-C10-C8-C7 |
| 29 | A | 818 | CLA | C11-C12-C13-C15 |
| 29 | A | 819 | CLA | C6-C7-C8-C10 |
| 29 | A | 826 | CLA | C6-C7-C8-C10 |
| 29 | A | 831 | CLA | C11-C10-C8-C7 |
| 29 | A | 833 | CLA | C11-C10-C8-C7 |
| 29 | A | 851 | CLA | C11-C10-C8-C7 |
| 29 | B | 803 | CLA | C6-C7-C8-C10 |
| 29 | B | 803 | CLA | C11-C10-C8-C7 |
| 29 | B | 809 | CLA | C11-C12-C13-C15 |
| 29 | B | 812 | CLA | C6-C7-C8-C10 |
| 29 | B | 814 | CLA | C11-C12-C13-C15 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 823 | CLA | C6-C7-C8-C10 |
| 29 | B | 825 | CLA | C6-C7-C8-C10 |
| 29 | B | 825 | CLA | C11-C10-C8-C7 |
| 29 | B | 825 | CLA | C12-C13-C15-C16 |
| 29 | B | 829 | CLA | C12-C13-C15-C16 |
| 29 | B | 834 | CLA | C12-C13-C15-C16 |
| 29 | B | 836 | CLA | C6-C7-C8-C10 |
| 29 | B | 840 | CLA | C11-C12-C13-C15 |
| 29 | K | 101 | CLA | C11-C10-C8-C7 |
| 29 | c | 304 | CLA | C6-C7-C8-C10 |
| 29 | c | 304 | CLA | C11-C10-C8-C7 |
| 29 | a | 302 | CLA | C12-C13-C15-C16 |
| 29 | a | 308 | CLA | C12-C13-C15-C16 |
| 29 | b | 308 | CLA | C6-C7-C8-C10 |
| 29 | b | 308 | CLA | C11-C10-C8-C7 |
| 29 | b | 309 | CLA | C11-C10-C8-C7 |
| 29 | b | 310 | CLA | C11-C10-C8-C7 |
| 29 | e | 306 | CLA | C12-C13-C15-C16 |
| 29 | k | 602 | CLA | C11-C10-C8-C7 |
| 29 | f | 604 | CLA | C12-C13-C15-C16 |
| 29 | i | 302 | CLA | C12-C13-C15-C16 |
| 29 | i | 305 | CLA | C11-C12-C13-C15 |
| 29 | j | 302 | CLA | C11-C10-C8-C7 |
| 29 | j | 310 | CLA | C11-C10-C8-C7 |
| 29 | j | 310 | CLA | C12-C13-C15-C16 |
| 29 | j | 314 | CLA | C6-C7-C8-C10 |
| 29 | g | 304 | CLA | C12-C13-C15-C16 |
| 29 | g | 306 | CLA | C12-C13-C15-C16 |
| 29 | g | 310 | CLA | C11-C10-C8-C7 |
| 29 | n | 610 | CLA | C6-C7-C8-C10 |
| 30 | A | 841 | PQN | C22-C23-C25-C26 |
| 29 | A | 805 | CLA | C11-C10-C8-C9 |
| 29 | A | 818 | CLA | C11-C12-C13-C14 |
| 29 | A | 819 | CLA | C6-C7-C8-C9 |
| 29 | A | 819 | CLA | C11-C12-C13-C14 |
| 29 | A | 825 | CLA | C11-C10-C8-C9 |
| 29 | A | 831 | CLA | C11-C10-C8-C9 |
| 29 | B | 801 | CLA | C11-C10-C8-C9 |
| 29 | B | 803 | CLA | C6-C7-C8-C9 |
| 29 | B | 803 | CLA | C11-C10-C8-C9 |
| 29 | B | 809 | CLA | C11-C12-C13-C14 |
| 29 | B | 818 | CLA | C11-C12-C13-C14 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 819 | CLA | C14-C13-C15-C16 |
| 29 | B | 829 | CLA | C14-C13-C15-C16 |
| 29 | B | 834 | CLA | C14-C13-C15-C16 |
| 29 | B | 838 | CLA | C14-C13-C15-C16 |
| 29 | O | 206 | CLA | C11-C12-C13-C14 |
| 29 | s | 402 | CLA | C6-C7-C8-C9 |
| 29 | c | 304 | CLA | C11-C10-C8-C9 |
| 29 | a | 302 | CLA | C14-C13-C15-C16 |
| 29 | a | 310 | CLA | C6-C7-C8-C9 |
| 29 | b | 305 | CLA | C11-C12-C13-C14 |
| 29 | b | 308 | CLA | C6-C7-C8-C9 |
| 29 | b | 309 | CLA | C11-C10-C8-C9 |
| 29 | b | 310 | CLA | C11-C10-C8-C9 |
| 29 | b | 311 | CLA | C14-C13-C15-C16 |
| 29 | m | 613 | CLA | C11-C10-C8-C9 |
| 29 | e | 306 | CLA | C14-C13-C15-C16 |
| 29 | k | 602 | CLA | C11-C10-C8-C9 |
| 29 | f | 602 | CLA | C11-C12-C13-C14 |
| 29 | f | 604 | CLA | C11-C12-C13-C14 |
| 29 | i | 302 | CLA | C14-C13-C15-C16 |
| 29 | i | 305 | CLA | C11-C12-C13-C14 |
| 29 | j | 302 | CLA | C11-C10-C8-C9 |
| 29 | j | 310 | CLA | C11-C10-C8-C9 |
| 29 | j | 310 | CLA | C14-C13-C15-C16 |
| 29 | j | 314 | CLA | C6-C7-C8-C9 |
| 29 | g | 306 | CLA | C14-C13-C15-C16 |
| 29 | g | 310 | CLA | C11-C10-C8-C9 |
| 29 | g | 311 | CLA | C11-C10-C8-C9 |
| 30 | A | 841 | PQN | C19-C18-C20-C21 |
| 30 | A | 841 | PQN | C21-C22-C23-C24 |
| 38 | e | 316 | II0 | C26-C30-C32-C34 |
| 38 | k | 617 | II0 | C36-C40-C42-C41 |
| 38 | f | 618 | II0 | C26-C30-C32-C34 |
| 31 | g | 322 | LHG | C26-C27-C28-C29 |
| 37 | F | 206 | LMG | C34-C35-C36-C37 |
| 29 | g | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 819 | CLA | C5-C6-C7-C8 |
| 29 | k | 608 | CLA | C15-C16-C17-C18 |
| 31 | n | 619 | LHG | C28-C29-C30-C31 |
| 29 | B | 816 | CLA | O1D-CGD-O2D-CED |
| 32 | A | 844 | WVN | C30-C33-C34-C38 |
| 32 | R | 201 | WVN | C11-C19-C22-C24 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 38 | b | 315 | II0 | C31-C33-C35-C37 |
| 38 | m | 616 | II0 | C32-C34-C36-C38 |
| 38 | k | 616 | II0 | C31-C33-C35-C37 |
| 38 | i | 313 | II0 | C32-C34-C36-C38 |
| 38 | i | 316 | II0 | C31-C33-C35-C37 |
| 38 | j | 315 | II0 | C31-C33-C35-C37 |
| 38 | n | 618 | II0 | C31-C33-C35-C37 |
| 29 | e | 306 | CLA | C16-C17-C18-C19 |
| 29 | l | 301 | CLA | C16-C17-C18-C19 |
| 32 | B | 848 | WVN | C20-C23-C25-C28 |
| 32 | I | 101 | WVN | C29-C31-C32-C36 |
| 32 | J | 101 | WVN | C20-C23-C25-C28 |
| 32 | M | 101 | WVN | C29-C31-C32-C36 |
| 32 | h | 308 | WVN | C29-C31-C32-C36 |
| 38 | h | 311 | II0 | C31-C33-C35-C39 |
| 39 | g | 324 | IHT | C30-C32-C33-C37 |
| 29 | B | 816 | CLA | C4C-C3C-CAC-CBC |
| 36 | B | 844 | DGD | C6B-C7B-C8B-C9B |
| 37 | F | 208 | LMG | C20-C21-C22-C23 |
| 29 | A | 820 | CLA | C3-C5-C6-C7 |
| 29 | d | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 805 | CLA | C15-C16-C17-C18 |
| 29 | f | 609 | CLA | C5-C6-C7-C8 |
| 31 | l | 318 | LHG | C8-C7-O7-C5 |
| 31 | A | 842 | LHG | C13-C14-C15-C16 |
| 29 | c | 301 | CLA | CBA-CGA-O2A-C1 |
| 29 | h | 305 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 606 | CLA | CBA-CGA-O2A-C1 |
| 29 | j | 314 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 307 | CLA | C8-C10-C11-C12 |
| 29 | B | 818 | CLA | O1D-CGD-O2D-CED |
| 31 | A | 842 | LHG | C12-C13-C14-C15 |
| 36 | B | 844 | DGD | CBA-CCA-CDA-CEA |
| 29 | A | 837 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 303 | CLA | O1D-CGD-O2D-CED |
| 31 | f | 620 | LHG | O6-C4-C5-C6 |
| 29 | f | 604 | CLA | C4C-C3C-CAC-CBC |
| 37 | F | 208 | LMG | C13-C14-C15-C16 |
| 29 | A | 820 | CLA | C4-C3-C5-C6 |
| 29 | B | 814 | CLA | C4-C3-C5-C6 |
| 29 | m | 606 | CLA | C4-C3-C5-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | g | 309 | CLA | C4-C3-C5-C6 |
| 29 | A | 820 | CLA | C2-C3-C5-C6 |
| 29 | m | 606 | CLA | C2-C3-C5-C6 |
| 29 | B | 805 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 304 | CLA | C8-C10-C11-C12 |
| 29 | a | 303 | CLA | C11-C10-C8-C9 |
| 29 | b | 307 | CLA | C14-C13-C15-C16 |
| 37 | F | 206 | LMG | O10-C28-O8-C9 |
| 29 | O | 201 | CLA | O1D-CGD-O2D-CED |
| 29 | e | 305 | CLA | C3-C5-C6-C7 |
| 29 | m | 606 | CLA | C16-C17-C18-C19 |
| 29 | B | 817 | CLA | CBA-CGA-O2A-C1 |
| 31 | a | 318 | LHG | C24-C23-O8-C6 |
| 37 | c | 317 | LMG | C29-C28-O8-C9 |
| 37 | b | 319 | LMG | C29-C28-O8-C9 |
| 37 | F | 206 | LMG | C15-C16-C17-C18 |
| 37 | Q | 301 | LMG | C29-C30-C31-C32 |
| 29 | Q | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 812 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 826 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 307 | CLA | C3A-C2A-CAA-CBA |
| 29 | j | 308 | CLA | C3A-C2A-CAA-CBA |
| 29 | d | 304 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 605 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 601 | CLA | O1D-CGD-O2D-CED |
| 32 | K | 103 | WVN | C25-C28-C30-C33 |
| 38 | b | 317 | II0 | C36-C40-C42-C41 |
| 38 | i | 316 | II0 | C26-C30-C32-C34 |
| 31 | A | 842 | LHG | C29-C30-C31-C32 |
| 31 | c | 320 | LHG | C25-C26-C27-C28 |
| 30 | A | 841 | PQN | C23-C25-C26-C27 |
| 33 | A | 855 | LMU | C1-C2-C3-C4 |
| 29 | e | 307 | CLA | C16-C17-C18-C20 |
| 29 | a | 307 | CLA | CBA-CGA-O2A-C1 |
| 31 | n | 619 | LHG | C24-C23-O8-C6 |
| 37 | F | 208 | LMG | C29-C28-O8-C9 |
| 37 | O | 205 | LMG | C29-C28-O8-C9 |
| 29 | B | 804 | CLA | C5-C6-C7-C8 |
| 29 | g | 307 | CLA | O1D-CGD-O2D-CED |
| 31 | L | 209 | LHG | C4-C5-C6-O8 |
| 35 | A | 853 | SQD | C44-C45-C46-O48 |
| 36 | j | 319 | DGD | C1G-C2G-C3G-O3G |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 37 | c | 318 | LMG | O1-C7-C8-C9 |
| 31 | L | 209 | LHG | C23-C24-C25-C26 |
| 31 | c | 320 | LHG | C35-C36-C37-C38 |
| 31 | a | 318 | LHG | C10-C11-C12-C13 |
| 29 | A | 812 | CLA | C3-C5-C6-C7 |
| 29 | f | 602 | CLA | C3-C5-C6-C7 |
| 29 | c | 304 | CLA | C10-C11-C12-C13 |
| 30 | B | 843 | PQN | C14-C13-C15-C16 |
| 29 | m | 606 | CLA | O1D-CGD-O2D-CED |
| 31 | A | 842 | LHG | C3-O3-P-O6 |
| 31 | A | 848 | LHG | C4-O6-P-O3 |
| 29 | c | 308 | CLA | O1A-CGA-O2A-C1 |
| 33 | B | 850 | LMU | C9-C10-C11-C12 |
| 29 | k | 610 | CLA | C2A-CAA-CBA-CGA |
| 29 | e | 311 | CLA | C10-C11-C12-C13 |
| 33 | B | 850 | LMU | C3-C4-C5-C6 |
| 37 | c | 317 | LMG | C42-C43-C44-C45 |
| 31 | f | 620 | LHG | O6-C4-C5-O7 |
| 31 | g | 301 | LHG | O6-C4-C5-O7 |
| 33 | A | 849 | LMU | O5B-C5B-C6B-O6B |
| 29 | e | 303 | CLA | CBA-CGA-O2A-C1 |
| 37 | F | 206 | LMG | C11-C12-C13-C14 |
| 29 | B | 806 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 826 | CLA | O1A-CGA-O2A-C1 |
| 29 | k | 614 | CLA | O1A-CGA-O2A-C1 |
| 29 | n | 603 | CLA | O1A-CGA-O2A-C1 |
| 31 | a | 318 | LHG | C7-C8-C9-C10 |
| 29 | B | 826 | CLA | C10-C11-C12-C13 |
| 29 | B | 839 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 803 | CLA | C8-C10-C11-C12 |
| 29 | B | 819 | CLA | C8-C10-C11-C12 |
| 29 | B | 817 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 304 | CLA | O1A-CGA-O2A-C1 |
| 31 | m | 619 | LHG | O10-C23-O8-C6 |
| 31 | e | 317 | LHG | O7-C5-C6-O8 |
| 35 | A | 853 | SQD | O47-C45-C46-O48 |
| 37 | b | 319 | LMG | O1-C7-C8-O7 |
| 37 | n | 620 | LMG | O1-C7-C8-O7 |
| 29 | a | 310 | CLA | CBD-CGD-O2D-CED |
| 32 | L | 206 | WVN | C25-C28-C30-C33 |
| 38 | e | 316 | II0 | C35-C39-C41-C42 |
| 29 | B | 837 | CLA | O1D-CGD-O2D-CED |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 606 | CLA | C16-C17-C18-C20 |
| 29 | Q | 302 | CLA | C16-C17-C18-C20 |
| 29 | j | 310 | CLA | C8-C10-C11-C12 |
| 29 | F | 201 | CLA | C3-C5-C6-C7 |
| 30 | A | 841 | PQN | C14-C13-C15-C16 |
| 29 | A | 851 | CLA | C2-C1-O2A-CGA |
| 29 | B | 811 | CLA | C2-C1-O2A-CGA |
| 29 | m | 610 | CLA | C2-C1-O2A-CGA |
| 29 | l | 312 | CLA | C2-C1-O2A-CGA |
| 29 | f | 613 | CLA | C2-C1-O2A-CGA |
| 29 | B | 814 | CLA | C2-C3-C5-C6 |
| 36 | B | 844 | DGD | C7A-C8A-C9A-CAA |
| 29 | A | 840 | CLA | C8-C10-C11-C12 |
| 29 | O | 206 | CLA | C13-C15-C16-C17 |
| 29 | A | 824 | CLA | C11-C12-C13-C14 |
| 29 | A | 825 | CLA | C6-C7-C8-C9 |
| 29 | A | 840 | CLA | C11-C12-C13-C14 |
| 29 | B | 807 | CLA | C11-C10-C8-C9 |
| 29 | B | 818 | CLA | C11-C10-C8-C9 |
| 29 | B | 826 | CLA | C11-C10-C8-C9 |
| 29 | B | 836 | CLA | C11-C10-C8-C9 |
| 29 | B | 837 | CLA | C14-C13-C15-C16 |
| 29 | K | 101 | CLA | C11-C10-C8-C9 |
| 29 | c | 312 | CLA | C6-C7-C8-C9 |
| 29 | a | 311 | CLA | C11-C10-C8-C9 |
| 29 | f | 608 | CLA | C11-C12-C13-C14 |
| 29 | i | 312 | CLA | C11-C10-C8-C9 |
| 29 | g | 305 | CLA | C6-C7-C8-C9 |
| 29 | a | 309 | CLA | CBA-CGA-O2A-C1 |
| 31 | a | 318 | LHG | C24-C25-C26-C27 |
| 36 | B | 844 | DGD | C4A-C5A-C6A-C7A |
| 37 | n | 620 | LMG | C14-C15-C16-C17 |
| 29 | B | 807 | CLA | C5-C6-C7-C8 |
| 29 | B | 808 | CLA | C15-C16-C17-C18 |
| 29 | l | 307 | CLA | C5-C6-C7-C8 |
| 29 | g | 307 | CLA | C4-C3-C5-C6 |
| 37 | c | 317 | LMG | C39-C40-C41-C42 |
| 29 | e | 304 | CLA | C2A-CAA-CBA-CGA |
| 32 | B | 848 | WVN | C06-C13-C20-C23 |
| 39 | c | 319 | IHT | C02-C07-C18-C22 |
| 39 | c | 319 | IHT | C10-C07-C18-C22 |
| 29 | j | 314 | CLA | C13-C15-C16-C17 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | g | 301 | LHG | C29-C30-C31-C32 |
| 36 | B | 844 | DGD | CDB-CEB-CFB-CGB |
| 29 | B | 833 | CLA | O1D-CGD-O2D-CED |
| 32 | h | 308 | WVN | C30-C33-C34-C38 |
| 32 | e | 315 | WVN | C20-C23-C25-C27 |
| 29 | f | 606 | CLA | O1A-CGA-O2A-C1 |
| 29 | e | 301 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 806 | CLA | CBA-CGA-O2A-C1 |
| 29 | m | 601 | CLA | C1A-C2A-CAA-CBA |
| 29 | g | 303 | CLA | C1A-C2A-CAA-CBA |
| 32 | A | 854 | WVN | C30-C33-C34-C37 |
| 32 | B | 848 | WVN | C30-C33-C34-C37 |
| 32 | L | 206 | WVN | C30-C33-C34-C37 |
| 38 | a | 317 | II0 | C32-C34-C36-C40 |
| 38 | d | 319 | II0 | C31-C33-C35-C39 |
| 39 | b | 316 | IHT | C18-C22-C23-C27 |
| 29 | j | 311 | CLA | C10-C11-C12-C13 |
| 31 | a | 301 | LHG | C25-C26-C27-C28 |
| 36 | B | 844 | DGD | C9A-CAA-CBA-CCA |
| 29 | a | 312 | CLA | O2A-C1-C2-C3 |
| 29 | g | 312 | CLA | O1A-CGA-O2A-C1 |
| 37 | Q | 301 | LMG | C32-C33-C34-C35 |
| 29 | B | 808 | CLA | C3-C5-C6-C7 |
| 29 | e | 311 | CLA | C3-C5-C6-C7 |
| 37 | L | 210 | LMG | C23-C24-C25-C26 |
| 38 | b | 317 | II0 | C27-C25-C29-C31 |
| 38 | h | 311 | II0 | C28-C26-C30-C32 |
| 38 | l | 315 | II0 | C27-C25-C29-C31 |
| 38 | k | 617 | II0 | C28-C26-C30-C32 |
| 38 | g | 318 | II0 | C27-C25-C29-C31 |
| 39 | b | 316 | IHT | C28-C26-C29-C31 |
| 29 | c | 308 | CLA | C15-C16-C17-C18 |
| 29 | f | 609 | CLA | C10-C11-C12-C13 |
| 29 | k | 607 | CLA | O1D-CGD-O2D-CED |
| 29 | c | 301 | CLA | O1A-CGA-O2A-C1 |
| 29 | e | 310 | CLA | O1A-CGA-O2A-C1 |
| 28 | A | 801 | CL0 | C5-C6-C7-C8 |
| 31 | L | 209 | LHG | O6-C4-C5-C6 |
| 31 | g | 322 | LHG | C28-C29-C30-C31 |
| 29 | A | 818 | CLA | C2-C3-C5-C6 |
| 29 | A | 824 | CLA | C11-C12-C13-C15 |
| 29 | A | 825 | CLA | C11-C10-C8-C7 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 836 | CLA | C11-C10-C8-C7 |
| 29 | A | 837 | CLA | C12-C13-C15-C16 |
| 29 | A | 840 | CLA | C11-C10-C8-C7 |
| 29 | A | 840 | CLA | C11-C12-C13-C15 |
| 29 | B | 801 | CLA | C6-C7-C8-C10 |
| 29 | B | 803 | CLA | C12-C13-C15-C16 |
| 29 | B | 804 | CLA | C6-C7-C8-C10 |
| 29 | B | 807 | CLA | C11-C10-C8-C7 |
| 29 | B | 818 | CLA | C11-C10-C8-C7 |
| 29 | B | 818 | CLA | C11-C12-C13-C15 |
| 29 | B | 822 | CLA | C11-C12-C13-C15 |
| 29 | B | 831 | CLA | C11-C12-C13-C15 |
| 29 | B | 836 | CLA | C11-C10-C8-C7 |
| 29 | B | 837 | CLA | C12-C13-C15-C16 |
| 29 | B | 838 | CLA | C12-C13-C15-C16 |
| 29 | F | 201 | CLA | C12-C13-C15-C16 |
| 29 | F | 202 | CLA | C12-C13-C15-C16 |
| 29 | O | 206 | CLA | C11-C12-C13-C15 |
| 29 | s | 406 | CLA | C12-C13-C15-C16 |
| 29 | c | 312 | CLA | C6-C7-C8-C10 |
| 29 | a | 305 | CLA | C11-C10-C8-C7 |
| 29 | a | 307 | CLA | C12-C13-C15-C16 |
| 29 | a | 308 | CLA | C11-C12-C13-C15 |
| 29 | a | 310 | CLA | C6-C7-C8-C10 |
| 29 | a | 311 | CLA | C11-C10-C8-C7 |
| 29 | b | 305 | CLA | C6-C7-C8-C10 |
| 29 | b | 305 | CLA | C11-C12-C13-C15 |
| 29 | b | 311 | CLA | C12-C13-C15-C16 |
| 29 | m | 604 | CLA | C6-C7-C8-C10 |
| 29 | m | 606 | CLA | C11-C12-C13-C15 |
| 29 | m | 606 | CLA | C12-C13-C15-C16 |
| 29 | e | 304 | CLA | C2-C3-C5-C6 |
| 29 | l | 304 | CLA | C6-C7-C8-C10 |
| 29 | l | 310 | CLA | C11-C12-C13-C15 |
| 29 | k | 602 | CLA | C11-C12-C13-C15 |
| 29 | f | 602 | CLA | C11-C12-C13-C15 |
| 29 | f | 604 | CLA | C11-C12-C13-C15 |
| 29 | f | 607 | CLA | C11-C12-C13-C15 |
| 29 | f | 608 | CLA | C11-C12-C13-C15 |
| 29 | i | 302 | CLA | C11-C10-C8-C7 |
| 29 | i | 303 | CLA | C11-C12-C13-C15 |
| 29 | i | 303 | CLA | C12-C13-C15-C16 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | i | 305 | CLA | C11-C10-C8-C7 |
| 29 | i | 312 | CLA | C11-C10-C8-C7 |
| 29 | g | 311 | CLA | C11-C10-C8-C7 |
| 29 | Q | 302 | CLA | C6-C7-C8-C10 |
| 30 | A | 841 | PQN | C17-C18-C20-C21 |
| 30 | A | 841 | PQN | C21-C22-C23-C25 |
| 31 | J | 104 | LHG | O10-C23-O8-C6 |
| 29 | d | 302 | CLA | C10-C11-C12-C13 |
| 32 | s | 405 | WVN | C22-C26-C29-C31 |
| 32 | e | 315 | WVN | C25-C28-C30-C33 |
| 32 | l | 302 | WVN | C34-C37-C40-C39 |
| 32 | R | 202 | WVN | C32-C36-C39-C40 |
| 38 | b | 314 | II0 | C35-C39-C41-C42 |
| 38 | h | 309 | II0 | C35-C39-C41-C42 |
| 38 | h | 311 | II0 | C26-C30-C32-C34 |
| 38 | e | 314 | II0 | C25-C29-C31-C33 |
| 38 | l | 314 | II0 | C26-C30-C32-C34 |
| 38 | f | 618 | II0 | C25-C29-C31-C33 |
| 38 | i | 319 | II0 | C36-C40-C42-C41 |
| 38 | n | 614 | II0 | C25-C29-C31-C33 |
| 39 | c | 319 | IHT | C35-C38-C41-C40 |
| 29 | e | 302 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 201 | CLA | C16-C17-C18-C19 |
| 29 | e | 305 | CLA | C5-C6-C7-C8 |
| 29 | m | 608 | CLA | C2A-CAA-CBA-CGA |
| 32 | R | 202 | WVN | C38-C34-C37-C40 |
| 31 | n | 619 | LHG | C7-C8-C9-C10 |
| 29 | m | 609 | CLA | C3-C5-C6-C7 |
| 31 | s | 408 | LHG | C11-C10-C9-C8 |
| 29 | B | 837 | CLA | C16-C17-C18-C19 |
| 29 | A | 851 | CLA | C15-C16-C17-C18 |
| 29 | b | 311 | CLA | CBA-CGA-O2A-C1 |
| 31 | b | 318 | LHG | C24-C23-O8-C6 |
| 31 | g | 322 | LHG | C11-C10-C9-C8 |
| 37 | n | 620 | LMG | C19-C20-C21-C22 |
| 29 | j | 305 | CLA | C5-C6-C7-C8 |
| 31 | i | 317 | LHG | C29-C30-C31-C32 |
| 29 | A | 805 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 816 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 825 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 833 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 810 | CLA | CAD-CBD-CGD-O2D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 814 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 830 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 839 | CLA | CAD-CBD-CGD-O2D |
| 29 | L | 207 | CLA | CAD-CBD-CGD-O2D |
| 29 | c | 309 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 303 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 304 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 306 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 310 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 305 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 310 | CLA | CAD-CBD-CGD-O2D |
| 29 | h | 306 | CLA | CAD-CBD-CGD-O2D |
| 29 | m | 610 | CLA | CAD-CBD-CGD-O2D |
| 29 | e | 301 | CLA | CAD-CBD-CGD-O2D |
| 29 | l | 303 | CLA | CAD-CBD-CGD-O2D |
| 29 | f | 609 | CLA | CAD-CBD-CGD-O2D |
| 29 | j | 302 | CLA | CAD-CBD-CGD-O2D |
| 29 | j | 311 | CLA | CAD-CBD-CGD-O2D |
| 29 | j | 313 | CLA | CAD-CBD-CGD-O2D |
| 29 | j | 314 | CLA | CAD-CBD-CGD-O2D |
| 29 | d | 302 | CLA | CAD-CBD-CGD-O2D |
| 29 | g | 303 | CLA | CAD-CBD-CGD-O2D |
| 29 | g | 308 | CLA | CAD-CBD-CGD-O2D |
| 29 | g | 316 | CLA | CAD-CBD-CGD-O2D |
| 29 | n | 601 | CLA | CAD-CBD-CGD-O2D |
| 29 | n | 603 | CLA | CAD-CBD-CGD-O2D |
| 29 | n | 604 | CLA | CAD-CBD-CGD-O2D |
| 29 | n | 606 | CLA | CAD-CBD-CGD-O2D |
| 29 | n | 609 | CLA | CAD-CBD-CGD-O2D |
| 40 | s | 401 | KC2 | CAD-CBD-CGD-O2D |
| 40 | s | 404 | KC2 | CAD-CBD-CGD-O2D |
| 40 | m | 611 | KC2 | CAD-CBD-CGD-O2D |
| 40 | e | 309 | KC2 | C2C-C3C-CAC-CBC |
| 40 | k | 612 | KC2 | CAD-CBD-CGD-O2D |
| 40 | j | 312 | KC2 | C2C-C3C-CAC-CBC |
| 40 | d | 311 | KC2 | C2C-C3C-CAC-CBC |
| 40 | d | 312 | KC2 | C2B-C3B-CAB-CBB |
| 40 | d | 312 | KC2 | CAD-CBD-CGD-O2D |
| 40 | g | 315 | KC2 | CAD-CBD-CGD-O2D |
| 29 | B | 820 | CLA | C8-C10-C11-C12 |
| 29 | g | 307 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 840 | CLA | C4-C3-C5-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | e | 306 | CLA | C16-C17-C18-C20 |
| 37 | b | 319 | LMG | C28-C29-C30-C31 |
| 31 | L | 209 | LHG | C2-C3-O3-P |
| 31 | c | 320 | LHG | C2-C3-O3-P |
| 31 | m | 619 | LHG | C4-C5-C6-O8 |
| 31 | g | 322 | LHG | C4-C5-C6-O8 |
| 37 | F | 206 | LMG | C7-C8-C9-O8 |
| 37 | O | 205 | LMG | C7-C8-C9-O8 |
| 37 | b | 319 | LMG | O1-C7-C8-C9 |
| 29 | h | 305 | CLA | O1A-CGA-O2A-C1 |
| 37 | n | 620 | LMG | C37-C38-C39-C40 |
| 31 | b | 318 | LHG | O6-C4-C5-O7 |
| 29 | B | 805 | CLA | CAA-CBA-CGA-O2A |
| 29 | L | 202 | CLA | O2A-C1-C2-C3 |
| 29 | A | 830 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 817 | CLA | C10-C11-C12-C13 |
| 29 | f | 604 | CLA | C2C-C3C-CAC-CBC |
| 37 | b | 319 | LMG | C30-C31-C32-C33 |
| 29 | k | 602 | CLA | C16-C17-C18-C20 |
| 29 | Q | 302 | CLA | C16-C17-C18-C19 |
| 29 | A | 806 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 814 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 822 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 822 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 829 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 829 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 808 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 808 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 821 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 822 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 822 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 823 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 823 | CLA | CHA-CBD-CGD-O2D |
| 29 | c | 302 | CLA | CHA-CBD-CGD-O1D |
| 29 | c | 302 | CLA | CHA-CBD-CGD-O2D |
| 29 | c | 303 | CLA | CHA-CBD-CGD-O1D |
| 29 | c | 303 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 305 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 305 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 303 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 303 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 312 | CLA | CHA-CBD-CGD-O1D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 601 | CLA | CHA-CBD-CGD-O1D |
| 29 | m | 612 | CLA | CHA-CBD-CGD-O1D |
| 29 | m | 612 | CLA | CHA-CBD-CGD-O2D |
| 29 | l | 306 | CLA | CHA-CBD-CGD-O2D |
| 29 | k | 605 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 602 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 604 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 604 | CLA | CHA-CBD-CGD-O2D |
| 29 | i | 302 | CLA | CHA-CBD-CGD-O2D |
| 29 | i | 303 | CLA | CHA-CBD-CGD-O1D |
| 29 | i | 303 | CLA | CHA-CBD-CGD-O2D |
| 29 | j | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | j | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | d | 304 | CLA | CHA-CBD-CGD-O1D |
| 29 | d | 304 | CLA | CHA-CBD-CGD-O2D |
| 29 | d | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | d | 313 | CLA | CHA-CBD-CGD-O2D |
| 29 | g | 306 | CLA | CHA-CBD-CGD-O2D |
| 29 | g | 310 | CLA | CHA-CBD-CGD-O1D |
| 29 | g | 310 | CLA | CHA-CBD-CGD-O2D |
| 40 | l | 311 | KC2 | CHA-CBD-CGD-O1D |
| 40 | k | 611 | KC2 | CHA-CBD-CGD-O1D |
| 40 | k | 611 | KC2 | CHA-CBD-CGD-O2D |
| 29 | c | 305 | CLA | C3-C5-C6-C7 |
| 29 | j | 303 | CLA | CBD-CGD-O2D-CED |
| 29 | e | 303 | CLA | O1A-CGA-O2A-C1 |
| 29 | j | 314 | CLA | O1A-CGA-O2A-C1 |
| 31 | a | 318 | LHG | C35-C36-C37-C38 |
| 33 | i | 301 | LMU | C1-C2-C3-C4 |
| 29 | A | 836 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 310 | CLA | O1D-CGD-O2D-CED |
| 32 | A | 854 | WVN | C31-C32-C36-C39 |
| 32 | B | 846 | WVN | C19-C22-C26-C29 |
| 32 | B | 848 | WVN | C31-C32-C36-C39 |
| 32 | F | 207 | WVN | C23-C25-C28-C30 |
| 38 | l | 315 | II0 | C34-C36-C40-C42 |
| 38 | j | 301 | II0 | C34-C36-C40-C42 |
| 38 | d | 301 | II0 | C33-C35-C39-C41 |
| 31 | g | 322 | LHG | O7-C5-C6-O8 |
| 36 | j | 319 | DGD | O2G-C2G-C3G-O3G |
| 37 | O | 205 | LMG | O7-C8-C9-O8 |
| 37 | Q | 301 | LMG | O7-C8-C9-O8 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 806 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 307 | CLA | O1A-CGA-O2A-C1 |
| 37 | F | 206 | LMG | C41-C42-C43-C44 |
| 29 | B | 838 | CLA | C16-C17-C18-C19 |
| 29 | i | 308 | CLA | C16-C17-C18-C20 |
| 29 | f | 602 | CLA | O1D-CGD-O2D-CED |
| 37 | F | 208 | LMG | C28-C29-C30-C31 |
| 37 | O | 205 | LMG | C28-C29-C30-C31 |
| 29 | f | 602 | CLA | C5-C6-C7-C8 |
| 29 | j | 311 | CLA | C5-C6-C7-C8 |
| 31 | A | 842 | LHG | C15-C16-C17-C18 |
| 29 | B | 817 | CLA | C2-C3-C5-C6 |
| 38 | c | 314 | II0 | C10-C22-C24-C26 |
| 38 | b | 317 | II0 | C09-C21-C23-C25 |
| 38 | b | 317 | II0 | C10-C22-C24-C26 |
| 38 | l | 317 | II0 | C10-C22-C24-C26 |
| 38 | n | 614 | II0 | C09-C21-C23-C25 |
| 38 | n | 614 | II0 | C10-C22-C24-C26 |
| 39 | b | 316 | IHT | C11-C21-C24-C26 |
| 39 | n | 617 | IHT | C11-C21-C24-C26 |
| 29 | A | 805 | CLA | C6-C7-C8-C9 |
| 29 | A | 836 | CLA | C11-C10-C8-C9 |
| 29 | A | 837 | CLA | C14-C13-C15-C16 |
| 29 | B | 822 | CLA | C11-C12-C13-C14 |
| 29 | B | 831 | CLA | C11-C12-C13-C14 |
| 29 | F | 201 | CLA | C14-C13-C15-C16 |
| 29 | k | 609 | CLA | C11-C10-C8-C9 |
| 29 | i | 303 | CLA | C11-C12-C13-C14 |
| 29 | i | 305 | CLA | C11-C10-C8-C9 |
| 37 | n | 620 | LMG | C34-C35-C36-C37 |
| 29 | A | 824 | CLA | C13-C15-C16-C17 |
| 35 | A | 853 | SQD | C4-C5-C6-S |
| 29 | j | 305 | CLA | C4C-C3C-CAC-CBC |
| 29 | A | 828 | CLA | CBD-CGD-O2D-CED |
| 29 | k | 607 | CLA | CAA-CBA-CGA-O2A |
| 32 | I | 101 | WVN | C20-C23-C25-C27 |
| 32 | L | 205 | WVN | C20-C23-C25-C27 |
| 32 | L | 206 | WVN | C11-C19-C22-C24 |
| 32 | e | 315 | WVN | C29-C31-C32-C35 |
| 38 | a | 315 | II0 | C32-C34-C36-C38 |
| 38 | h | 309 | II0 | C32-C34-C36-C38 |
| 38 | g | 317 | II0 | C32-C34-C36-C38 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 33 | A | 855 | LMU | C3'-C4'-O1B-C1B |
| 29 | A | 804 | CLA | C15-C16-C17-C18 |
| 37 | b | 319 | LMG | C11-C12-C13-C14 |
| 32 | A | 845 | WVN | C20-C23-C25-C28 |
| 32 | A | 847 | WVN | C20-C23-C25-C28 |
| 32 | s | 407 | WVN | C20-C23-C25-C28 |
| 38 | a | 317 | II0 | C31-C33-C35-C39 |
| 29 | a | 311 | CLA | C3-C5-C6-C7 |
| 29 | A | 803 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 807 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 820 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 832 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 833 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 809 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 814 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 818 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 820 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 827 | CLA | C1A-C2A-CAA-CBA |
| 29 | K | 101 | CLA | C1A-C2A-CAA-CBA |
| 31 | i | 317 | LHG | C23-C24-C25-C26 |
| 29 | A | 808 | CLA | C16-C17-C18-C19 |
| 29 | A | 808 | CLA | C16-C17-C18-C20 |
| 29 | O | 202 | CLA | C5-C6-C7-C8 |
| 32 | B | 849 | WVN | C22-C26-C29-C31 |
| 32 | J | 101 | WVN | C22-C26-C29-C31 |
| 38 | g | 319 | II0 | C36-C40-C42-C41 |
| 29 | A | 835 | CLA | C15-C16-C17-C18 |
| 31 | L | 208 | LHG | C4-O6-P-O3 |
| 31 | g | 322 | LHG | C4-O6-P-O3 |
| 31 | A | 842 | LHG | C27-C28-C29-C30 |
| 37 | c | 317 | LMG | C33-C34-C35-C36 |
| 29 | A | 851 | CLA | C4-C3-C5-C6 |
| 31 | b | 318 | LHG | C2-C3-O3-P |
| 29 | n | 604 | CLA | O1D-CGD-O2D-CED |
| 31 | L | 208 | LHG | C28-C29-C30-C31 |
| 36 | j | 319 | DGD | C2A-C3A-C4A-C5A |
| 29 | a | 309 | CLA | O1A-CGA-O2A-C1 |
| 31 | A | 842 | LHG | C4-O6-P-O5 |
| 31 | J | 104 | LHG | C4-O6-P-O5 |
| 31 | c | 320 | LHG | C3-O3-P-O4 |
| 31 | a | 301 | LHG | C3-O3-P-O5 |
| 31 | b | 318 | LHG | C4-O6-P-O5 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | l | 318 | LHG | C3-O3-P-O5 |
| 31 | f | 620 | LHG | C3-O3-P-O5 |
| 31 | f | 620 | LHG | C4-O6-P-O5 |
| 31 | j | 318 | LHG | C4-O6-P-O4 |
| 31 | g | 301 | LHG | C4-O6-P-O5 |
| 31 | g | 322 | LHG | C3-O3-P-O5 |
| 31 | g | 322 | LHG | C4-O6-P-O4 |
| 31 | n | 619 | LHG | C3-O3-P-O5 |
| 29 | s | 402 | CLA | C16-C17-C18-C19 |
| 29 | i | 312 | CLA | C16-C17-C18-C20 |
| 35 | A | 853 | SQD | C7-C8-C9-C10 |
| 29 | l | 310 | CLA | C8-C10-C11-C12 |
| 29 | B | 823 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 303 | CLA | CBA-CGA-O2A-C1 |
| 31 | c | 316 | LHG | O6-C4-C5-C6 |
| 31 | b | 318 | LHG | O6-C4-C5-C6 |
| 29 | f | 606 | CLA | CAA-CBA-CGA-O2A |
| 29 | i | 307 | CLA | CAA-CBA-CGA-O2A |
| 29 | h | 301 | CLA | C5-C6-C7-C8 |
| 31 | g | 301 | LHG | C9-C10-C11-C12 |
| 29 | m | 613 | CLA | C16-C17-C18-C20 |
| 29 | k | 604 | CLA | C4C-C3C-CAC-CBC |
| 29 | A | 804 | CLA | CAD-CBD-CGD-O1D |
| 29 | A | 814 | CLA | CAD-CBD-CGD-O1D |
| 29 | A | 822 | CLA | CAD-CBD-CGD-O1D |
| 29 | c | 301 | CLA | C2-C3-C5-C6 |
| 29 | c | 302 | CLA | CAD-CBD-CGD-O1D |
| 29 | c | 303 | CLA | CAD-CBD-CGD-O1D |
| 29 | a | 305 | CLA | CAD-CBD-CGD-O1D |
| 29 | b | 312 | CLA | CAD-CBD-CGD-O1D |
| 29 | m | 604 | CLA | CAD-CBD-CGD-O1D |
| 29 | m | 612 | CLA | CAD-CBD-CGD-O1D |
| 29 | l | 306 | CLA | CAD-CBD-CGD-O1D |
| 29 | k | 604 | CLA | CAD-CBD-CGD-O1D |
| 29 | f | 602 | CLA | CAD-CBD-CGD-O1D |
| 29 | f | 604 | CLA | CAD-CBD-CGD-O1D |
| 29 | i | 302 | CLA | CAD-CBD-CGD-O1D |
| 29 | i | 305 | CLA | CAD-CBD-CGD-O1D |
| 29 | j | 304 | CLA | C2-C3-C5-C6 |
| 29 | j | 305 | CLA | CAD-CBD-CGD-O1D |
| 29 | d | 303 | CLA | C2-C3-C5-C6 |
| 29 | g | 304 | CLA | CAD-CBD-CGD-O1D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | g | 306 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 822 | CLA | C10-C11-C12-C13 |
| 29 | k | 604 | CLA | C5-C6-C7-C8 |
| 29 | b | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 303 | CLA | O1A-CGA-O2A-C1 |
| 29 | g | 307 | CLA | O1A-CGA-O2A-C1 |
| 37 | c | 317 | LMG | C29-C30-C31-C32 |
| 29 | i | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | g | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 803 | CLA | C6-C7-C8-C10 |
| 29 | A | 816 | CLA | C11-C10-C8-C7 |
| 29 | A | 819 | CLA | C12-C13-C15-C16 |
| 29 | A | 831 | CLA | C12-C13-C15-C16 |
| 29 | A | 835 | CLA | C6-C7-C8-C10 |
| 29 | B | 816 | CLA | C11-C12-C13-C15 |
| 29 | B | 841 | CLA | C12-C13-C15-C16 |
| 29 | F | 201 | CLA | C11-C10-C8-C7 |
| 29 | c | 302 | CLA | C6-C7-C8-C10 |
| 29 | c | 304 | CLA | C12-C13-C15-C16 |
| 29 | b | 306 | CLA | C11-C12-C13-C15 |
| 29 | b | 306 | CLA | C12-C13-C15-C16 |
| 29 | m | 609 | CLA | C11-C10-C8-C7 |
| 29 | m | 613 | CLA | C11-C10-C8-C7 |
| 29 | e | 302 | CLA | C11-C12-C13-C15 |
| 29 | e | 311 | CLA | C12-C13-C15-C16 |
| 29 | l | 301 | CLA | C12-C13-C15-C16 |
| 29 | l | 306 | CLA | C12-C13-C15-C16 |
| 29 | k | 609 | CLA | C11-C10-C8-C7 |
| 29 | f | 607 | CLA | C11-C10-C8-C7 |
| 29 | f | 610 | CLA | C11-C12-C13-C15 |
| 29 | i | 312 | CLA | C11-C12-C13-C15 |
| 29 | j | 305 | CLA | C6-C7-C8-C10 |
| 29 | g | 303 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 305 | CLA | C11-C12-C13-C15 |
| 29 | Q | 302 | CLA | C11-C10-C8-C7 |
| 30 | B | 843 | PQN | C21-C22-C23-C25 |
| 31 | L | 209 | LHG | O6-C4-C5-O7 |
| 31 | i | 317 | LHG | O6-C4-C5-O7 |
| 32 | A | 844 | WVN | C05-C02-C11-C19 |
| 32 | B | 846 | WVN | C05-C02-C11-C19 |
| 32 | F | 205 | WVN | C05-C02-C11-C19 |
| 32 | I | 101 | WVN | C05-C02-C11-C19 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 32 | l | 316 | WVN | C05-C02-C11-C19 |
| 32 | R | 201 | WVN | C05-C02-C11-C19 |
| 31 | c | 316 | LHG | C24-C25-C26-C27 |
| 38 | a | 315 | II0 | C35-C39-C41-C42 |
| 38 | k | 620 | II0 | C26-C30-C32-C34 |
| 29 | s | 402 | CLA | C13-C15-C16-C17 |
| 30 | A | 841 | PQN | C20-C21-C22-C23 |
| 29 | A | 820 | CLA | C5-C6-C7-C8 |
| 29 | m | 604 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 314 | CLA | C2A-CAA-CBA-CGA |
| 29 | d | 318 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 817 | CLA | C16-C17-C18-C20 |
| 29 | B | 821 | CLA | C5-C6-C7-C8 |
| 29 | j | 302 | CLA | C3-C5-C6-C7 |
| 29 | n | 613 | CLA | CAA-CBA-CGA-O2A |
| 36 | j | 319 | DGD | O1G-C1G-C2G-O2G |
| 37 | F | 206 | LMG | O7-C8-C9-O8 |
| 37 | F | 206 | LMG | C12-C13-C14-C15 |
| 31 | L | 208 | LHG | C11-C12-C13-C14 |
| 31 | j | 318 | LHG | C11-C12-C13-C14 |
| 33 | A | 855 | LMU | C5'-C4'-O1B-C1B |
| 37 | n | 620 | LMG | C18-C19-C20-C21 |
| 29 | h | 306 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 838 | CLA | C16-C17-C18-C20 |
| 29 | A | 832 | CLA | C13-C15-C16-C17 |
| 29 | B | 806 | CLA | C5-C6-C7-C8 |
| 29 | B | 841 | CLA | C3-C5-C6-C7 |
| 33 | A | 849 | LMU | C9-C10-C11-C12 |
| 36 | B | 844 | DGD | C3A-C4A-C5A-C6A |
| 29 | i | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 825 | CLA | C4-C3-C5-C6 |
| 29 | g | 309 | CLA | C2-C3-C5-C6 |
| 29 | A | 802 | CLA | CAA-CBA-CGA-O2A |
| 29 | k | 606 | CLA | CAA-CBA-CGA-O2A |
| 29 | A | 833 | CLA | C11-C10-C8-C9 |
| 29 | B | 803 | CLA | C14-C13-C15-C16 |
| 29 | B | 804 | CLA | C6-C7-C8-C9 |
| 29 | B | 814 | CLA | C11-C12-C13-C14 |
| 29 | a | 305 | CLA | C11-C10-C8-C9 |
| 29 | a | 307 | CLA | C14-C13-C15-C16 |
| 29 | m | 604 | CLA | C6-C7-C8-C9 |
| 29 | e | 306 | CLA | C11-C10-C8-C9 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | l | 304 | CLA | C6-C7-C8-C9 |
| 29 | l | 304 | CLA | C14-C13-C15-C16 |
| 29 | l | 310 | CLA | C11-C12-C13-C14 |
| 29 | f | 607 | CLA | C11-C12-C13-C14 |
| 29 | i | 303 | CLA | C14-C13-C15-C16 |
| 29 | g | 304 | CLA | C11-C12-C13-C14 |
| 29 | Q | 302 | CLA | C11-C10-C8-C9 |
| 29 | h | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | g | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | L | 207 | CLA | CBD-CGD-O2D-CED |
| 31 | L | 208 | LHG | C27-C28-C29-C30 |
| 29 | l | 312 | CLA | C3-C5-C6-C7 |
| 29 | K | 101 | CLA | C5-C6-C7-C8 |
| 29 | B | 806 | CLA | C15-C16-C17-C18 |
| 38 | k | 618 | II0 | C30-C32-C34-C36 |
| 38 | d | 319 | II0 | C30-C32-C34-C36 |
| 32 | L | 206 | WVN | C32-C36-C39-C40 |
| 38 | f | 616 | II0 | C26-C30-C32-C34 |
| 35 | A | 853 | SQD | C17-C18-C19-C20 |
| 29 | B | 823 | CLA | O1A-CGA-O2A-C1 |
| 37 | c | 318 | LMG | C10-C11-C12-C13 |
| 29 | A | 828 | CLA | O1D-CGD-O2D-CED |
| 29 | j | 303 | CLA | C6-C7-C8-C9 |
| 29 | A | 827 | CLA | C3-C5-C6-C7 |
| 29 | A | 809 | CLA | C4-C3-C5-C6 |
| 29 | A | 826 | CLA | C4-C3-C5-C6 |
| 29 | g | 307 | CLA | CAA-CBA-CGA-O2A |
| 31 | a | 301 | LHG | C17-C18-C19-C20 |
| 29 | B | 819 | CLA | C13-C15-C16-C17 |
| 29 | l | 304 | CLA | C16-C17-C18-C19 |
| 29 | i | 308 | CLA | C16-C17-C18-C19 |
| 31 | i | 317 | LHG | C25-C26-C27-C28 |
| 29 | f | 613 | CLA | C10-C11-C12-C13 |
| 29 | Q | 302 | CLA | C10-C11-C12-C13 |
| 29 | A | 821 | CLA | C1-C2-C3-C4 |
| 31 | a | 318 | LHG | C29-C30-C31-C32 |
| 29 | A | 822 | CLA | C3-C5-C6-C7 |
| 29 | i | 302 | CLA | CAA-CBA-CGA-O2A |
| 31 | e | 317 | LHG | C6-C5-O7-C7 |
| 31 | f | 619 | LHG | O6-C4-C5-C6 |
| 29 | A | 802 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 801 | CLA | C2A-CAA-CBA-CGA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | e | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | k | 607 | CLA | C2A-CAA-CBA-CGA |
| 29 | f | 604 | CLA | C2A-CAA-CBA-CGA |
| 29 | f | 607 | CLA | C2A-CAA-CBA-CGA |
| 29 | g | 306 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 816 | CLA | C2-C1-O2A-CGA |
| 29 | A | 833 | CLA | C2-C1-O2A-CGA |
| 29 | B | 822 | CLA | C2-C1-O2A-CGA |
| 29 | m | 602 | CLA | C2-C1-O2A-CGA |
| 29 | m | 613 | CLA | C2-C1-O2A-CGA |
| 29 | j | 307 | CLA | C2-C1-O2A-CGA |
| 29 | n | 609 | CLA | C2-C1-O2A-CGA |
| 33 | A | 849 | LMU | C4-C5-C6-C7 |
| 37 | c | 317 | LMG | C16-C17-C18-C19 |
| 29 | s | 402 | CLA | C16-C17-C18-C20 |
| 29 | m | 613 | CLA | C16-C17-C18-C19 |
| 36 | j | 319 | DGD | CEB-CFB-CGB-CHB |
| 29 | B | 809 | CLA | C13-C15-C16-C17 |
| 29 | L | 207 | CLA | O1D-CGD-O2D-CED |
| 35 | A | 853 | SQD | C24-C23-O48-C46 |
| 31 | f | 619 | LHG | O6-C4-C5-O7 |
| 31 | b | 318 | LHG | C28-C29-C30-C31 |
| 31 | m | 619 | LHG | C29-C30-C31-C32 |
| 29 | f | 607 | CLA | C4-C3-C5-C6 |
| 29 | c | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | e | 302 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 851 | CLA | C2-C3-C5-C6 |
| 31 | A | 842 | LHG | C10-C11-C12-C13 |
| 37 | F | 206 | LMG | C21-C22-C23-C24 |
| 29 | b | 312 | CLA | C8-C10-C11-C12 |
| 31 | J | 104 | LHG | C24-C25-C26-C27 |
| 32 | A | 845 | WVN | C23-C25-C28-C30 |
| 32 | A | 846 | WVN | C19-C22-C26-C29 |
| 32 | A | 846 | WVN | C33-C34-C37-C40 |
| 32 | l | 302 | WVN | C33-C34-C37-C40 |
| 37 | b | 319 | LMG | C2-C1-O1-C7 |
| 38 | l | 314 | II0 | C34-C36-C40-C42 |
| 38 | g | 318 | II0 | C33-C35-C39-C41 |
| 37 | F | 208 | LMG | O1-C7-C8-O7 |
| 31 | A | 843 | LHG | C3-O3-P-O6 |
| 31 | A | 848 | LHG | C3-O3-P-O6 |
| 31 | J | 104 | LHG | C3-O3-P-O6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 31 | c | 316 | LHG | C3-O3-P-O6 |
| 31 | c | 320 | LHG | C4-O6-P-O3 |
| 31 | j | 318 | LHG | C3-O3-P-O6 |
| 33 | i | 301 | LMU | C11-C10-C9-C8 |
| 29 | d | 302 | CLA | C13-C15-C16-C17 |
| 31 | i | 317 | LHG | C24-C25-C26-C27 |
| 29 | i | 312 | CLA | C16-C17-C18-C19 |
| 29 | F | 202 | CLA | C10-C11-C12-C13 |
| 36 | j | 319 | DGD | O1G-C1G-C2G-C3G |
| 37 | O | 205 | LMG | O1-C7-C8-C9 |
| 37 | n | 620 | LMG | O1-C7-C8-C9 |
| 29 | A | 805 | CLA | C6-C7-C8-C10 |
| 29 | B | 826 | CLA | C11-C10-C8-C7 |
| 29 | s | 402 | CLA | C6-C7-C8-C10 |
| 29 | a | 311 | CLA | C12-C13-C15-C16 |
| 29 | k | 602 | CLA | C6-C7-C8-C10 |
| 29 | b | 312 | CLA | C3-C5-C6-C7 |
| 29 | h | 306 | CLA | C3-C5-C6-C7 |
| 29 | k | 604 | CLA | C2C-C3C-CAC-CBC |
| 29 | A | 819 | CLA | C14-C13-C15-C16 |
| 29 | A | 835 | CLA | C6-C7-C8-C9 |
| 29 | A | 840 | CLA | C11-C10-C8-C9 |
| 29 | B | 801 | CLA | C6-C7-C8-C9 |
| 29 | B | 816 | CLA | C11-C12-C13-C14 |
| 29 | B | 823 | CLA | C6-C7-C8-C9 |
| 29 | B | 825 | CLA | C11-C10-C8-C9 |
| 29 | B | 841 | CLA | C14-C13-C15-C16 |
| 29 | s | 402 | CLA | C11-C10-C8-C9 |
| 29 | a | 308 | CLA | C11-C12-C13-C14 |
| 29 | b | 305 | CLA | C6-C7-C8-C9 |
| 29 | m | 606 | CLA | C11-C12-C13-C14 |
| 29 | m | 609 | CLA | C11-C10-C8-C9 |
| 29 | j | 305 | CLA | C6-C7-C8-C9 |
| 29 | g | 309 | CLA | C14-C13-C15-C16 |
| 30 | B | 843 | PQN | C21-C22-C23-C24 |
| 38 | a | 313 | II0 | C26-C30-C32-C34 |
| 38 | h | 309 | II0 | C36-C40-C42-C41 |
| 29 | A | 817 | CLA | C8-C10-C11-C12 |
| 29 | e | 302 | CLA | C13-C15-C16-C17 |
| 29 | g | 305 | CLA | C10-C11-C12-C13 |
| 29 | m | 604 | CLA | C4C-C3C-CAC-CBC |
| 29 | B | 841 | CLA | C16-C17-C18-C19 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 37 | F | 208 | LMG | C18-C19-C20-C21 |
| 37 | b | 319 | LMG | C17-C18-C19-C20 |
| 31 | a | 318 | LHG | C11-C12-C13-C14 |
| 29 | a | 303 | CLA | C11-C10-C8-C7 |
| 29 | l | 310 | CLA | C12-C13-C15-C16 |
| 29 | i | 308 | CLA | C5-C6-C7-C8 |
| 29 | A | 826 | CLA | C2-C3-C5-C6 |
| 29 | A | 840 | CLA | C2-C3-C5-C6 |
| 29 | A | 816 | CLA | CBA-CGA-O2A-C1 |
| 29 | O | 201 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 603 | CLA | CBA-CGA-O2A-C1 |
| 40 | g | 314 | KC2 | C2B-C3B-CAB-CBB |
| 29 | c | 306 | CLA | C3-C5-C6-C7 |
| 29 | A | 816 | CLA | O1A-CGA-O2A-C1 |
| 31 | A | 842 | LHG | C24-C23-O8-C6 |
| 29 | A | 811 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 807 | CLA | C2A-CAA-CBA-CGA |
| 29 | c | 304 | CLA | C2A-CAA-CBA-CGA |
| 29 | c | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | k | 604 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 305 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 817 | CLA | C16-C17-C18-C19 |
| 32 | A | 845 | WVN | C22-C26-C29-C31 |
| 32 | F | 205 | WVN | C32-C36-C39-C40 |
| 32 | L | 201 | WVN | C32-C36-C39-C40 |
| 32 | K | 103 | WVN | C32-C36-C39-C40 |
| 38 | c | 313 | II0 | C35-C39-C41-C42 |
| 38 | i | 319 | II0 | C35-C39-C41-C42 |
| 38 | g | 318 | II0 | C35-C39-C41-C42 |
| 31 | l | 318 | LHG | O6-C4-C5-O7 |
| 29 | O | 201 | CLA | O1A-CGA-O2A-C1 |
| 31 | L | 208 | LHG | C16-C17-C18-C19 |
| 29 | m | 606 | CLA | CAA-CBA-CGA-O2A |
| 40 | d | 312 | KC2 | C4B-C3B-CAB-CBB |
| 40 | g | 314 | KC2 | C4B-C3B-CAB-CBB |
| 29 | B | 814 | CLA | C3-C5-C6-C7 |
| 29 | K | 101 | CLA | C4-C3-C5-C6 |
| 29 | h | 305 | CLA | C4-C3-C5-C6 |
| 29 | a | 306 | CLA | C4C-C3C-CAC-CBC |
| 29 | h | 305 | CLA | C2-C3-C5-C6 |
| 29 | f | 603 | CLA | O1A-CGA-O2A-C1 |
| 31 | A | 848 | LHG | C9-C10-C11-C12 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | e | 302 | CLA | C2-C1-O2A-CGA |
| 29 | g | 304 | CLA | C2-C1-O2A-CGA |
| 29 | A | 802 | CLA | C8-C10-C11-C12 |
| 29 | i | 307 | CLA | C5-C6-C7-C8 |
| 38 | O | 203 | II0 | C28-C26-C30-C32 |
| 29 | j | 305 | CLA | C2C-C3C-CAC-CBC |
| 29 | A | 814 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 813 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 305 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | m | 609 | CLA | C2A-CAA-CBA-CGA |
| 29 | f | 609 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 303 | CLA | C2A-CAA-CBA-CGA |
| 29 | n | 608 | CLA | C2A-CAA-CBA-CGA |
| 37 | L | 210 | LMG | C20-C21-C22-C23 |
| 31 | L | 209 | LHG | C5-C4-O6-P |
| 29 | A | 827 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 809 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 816 | CLA | C3A-C2A-CAA-CBA |
| 29 | s | 402 | CLA | C3A-C2A-CAA-CBA |
| 29 | s | 406 | CLA | C3A-C2A-CAA-CBA |
| 29 | d | 313 | CLA | C3A-C2A-CAA-CBA |
| 29 | n | 613 | CLA | C3A-C2A-CAA-CBA |
| 29 | e | 301 | CLA | CAA-CBA-CGA-O1A |
| 38 | e | 316 | II0 | C10-C22-C24-C26 |
| 39 | a | 316 | IHT | C11-C21-C24-C26 |
| 36 | B | 844 | DGD | O2G-C1B-C2B-C3B |
| 29 | A | 810 | CLA | C6-C7-C8-C9 |
| 29 | A | 817 | CLA | C11-C10-C8-C9 |
| 29 | B | 817 | CLA | C14-C13-C15-C16 |
| 29 | B | 824 | CLA | C14-C13-C15-C16 |
| 29 | a | 311 | CLA | C14-C13-C15-C16 |
| 29 | e | 302 | CLA | C11-C12-C13-C14 |
| 29 | e | 311 | CLA | C14-C13-C15-C16 |
| 29 | l | 306 | CLA | C14-C13-C15-C16 |
| 29 | k | 608 | CLA | C11-C10-C8-C9 |
| 29 | i | 312 | CLA | C11-C12-C13-C14 |
| 29 | j | 314 | CLA | C11-C12-C13-C14 |
| 29 | Q | 302 | CLA | C11-C12-C13-C14 |
| 30 | B | 843 | PQN | C16-C17-C18-C19 |
| 29 | B | 841 | CLA | C16-C17-C18-C20 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | m | 609 | CLA | C11-C12-C13-C14 |
| 29 | l | 304 | CLA | C16-C17-C18-C20 |
| 29 | l | 301 | CLA | C10-C11-C12-C13 |
| 31 | m | 619 | LHG | C7-C8-C9-C10 |
| 32 | B | 845 | WVN | C27-C25-C28-C30 |
| 32 | F | 205 | WVN | C35-C32-C36-C39 |
| 38 | O | 203 | II0 | C37-C35-C39-C41 |
| 39 | g | 324 | IHT | C25-C23-C27-C30 |
| 37 | b | 319 | LMG | O9-C10-O7-C8 |
| 29 | A | 805 | CLA | C15-C16-C17-C18 |
| 29 | B | 834 | CLA | CBA-CGA-O2A-C1 |
| 37 | n | 620 | LMG | O6-C1-O1-C7 |
| 31 | a | 318 | LHG | C32-C33-C34-C35 |
| 39 | b | 316 | IHT | C18-C22-C23-C25 |
| 29 | f | 604 | CLA | C8-C10-C11-C12 |
| 29 | A | 803 | CLA | C4-C3-C5-C6 |
| 29 | B | 820 | CLA | C4-C3-C5-C6 |
| 29 | A | 812 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 829 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 850 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 812 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 816 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 824 | CLA | C1A-C2A-CAA-CBA |
| 29 | L | 207 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 607 | CLA | C1A-C2A-CAA-CBA |
| 29 | e | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | l | 303 | CLA | C1A-C2A-CAA-CBA |
| 29 | l | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | l | 310 | CLA | C1A-C2A-CAA-CBA |
| 29 | k | 601 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 303 | CLA | C1A-C2A-CAA-CBA |
| 29 | d | 318 | CLA | C1A-C2A-CAA-CBA |
| 29 | n | 605 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 804 | CLA | C11-C10-C8-C7 |
| 29 | B | 806 | CLA | C12-C13-C15-C16 |
| 29 | B | 819 | CLA | C11-C10-C8-C7 |
| 29 | K | 101 | CLA | C11-C12-C13-C15 |
| 29 | b | 308 | CLA | C11-C12-C13-C15 |
| 29 | b | 311 | CLA | C6-C7-C8-C10 |
| 29 | b | 312 | CLA | C6-C7-C8-C10 |
| 29 | i | 303 | CLA | C6-C7-C8-C10 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | i | 311 | CLA | C6-C7-C8-C10 |
| 29 | d | 302 | CLA | C11-C10-C8-C7 |
| 29 | g | 304 | CLA | C6-C7-C8-C10 |
| 29 | g | 306 | CLA | C6-C7-C8-C10 |
| 29 | d | 303 | CLA | O1A-CGA-O2A-C1 |
| 31 | g | 322 | LHG | C30-C31-C32-C33 |
| 37 | F | 206 | LMG | C39-C40-C41-C42 |
| 32 | B | 849 | WVN | C32-C36-C39-C40 |
| 32 | i | 315 | WVN | C25-C28-C30-C33 |
| 38 | f | 616 | II0 | C35-C39-C41-C42 |
| 38 | g | 319 | II0 | C25-C29-C31-C33 |
| 29 | A | 817 | CLA | CAA-CBA-CGA-O2A |
| 29 | j | 311 | CLA | CAA-CBA-CGA-O2A |
| 29 | e | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 301 | CLA | CAA-CBA-CGA-O2A |
| 33 | i | 301 | LMU | C3-C4-C5-C6 |
| 29 | A | 802 | CLA | C3-C5-C6-C7 |
| 29 | A | 813 | CLA | C3-C5-C6-C7 |
| 29 | A | 851 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 825 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 828 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 305 | CLA | C2A-CAA-CBA-CGA |
| 29 | n | 610 | CLA | C10-C11-C12-C13 |
| 31 | b | 318 | LHG | C7-C8-C9-C10 |
| 31 | e | 317 | LHG | C23-C24-C25-C26 |
| 28 | A | 801 | CL0 | CAA-CBA-CGA-O2A |
| 29 | k | 608 | CLA | C8-C10-C11-C12 |
| 29 | d | 303 | CLA | CBA-CGA-O2A-C1 |
| 40 | g | 314 | KC2 | C3A-C2A-CAA-CBA |
| 31 | c | 316 | LHG | C11-C10-C9-C8 |
| 29 | f | 604 | CLA | C13-C15-C16-C17 |
| 31 | e | 317 | LHG | C30-C31-C32-C33 |
| 29 | F | 203 | CLA | C4-C3-C5-C6 |
| 29 | g | 309 | CLA | C15-C16-C17-C18 |
| 29 | B | 825 | CLA | C2-C3-C5-C6 |
| 29 | F | 203 | CLA | C2-C3-C5-C6 |
| 29 | m | 606 | CLA | C15-C16-C17-C18 |
| 29 | j | 311 | CLA | C3-C5-C6-C7 |
| 31 | A | 848 | LHG | C5-C4-O6-P |
| 38 | O | 203 | II0 | C33-C35-C39-C41 |
| 38 | d | 301 | II0 | C34-C36-C40-C42 |
| 31 | m | 619 | LHG | C24-C23-O8-C6 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | c | 305 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 841 | CLA | C4C-C3C-CAC-CBC |
| 32 | B | 846 | WVN | C32-C36-C39-C40 |
| 38 | b | 301 | II0 | C35-C39-C41-C42 |
| 29 | d | 318 | CLA | CAA-CBA-CGA-O1A |
| 29 | O | 206 | CLA | C10-C11-C12-C13 |
| 37 | n | 620 | LMG | C38-C39-C40-C41 |
| 29 | A | 819 | CLA | C8-C10-C11-C12 |
| 29 | n | 607 | CLA | C8-C10-C11-C12 |
| 29 | e | 302 | CLA | O1A-CGA-O2A-C1 |
| 31 | J | 104 | LHG | C1-C2-C3-O3 |
| 29 | j | 306 | CLA | CAA-CBA-CGA-O2A |
| 29 | d | 318 | CLA | CAA-CBA-CGA-O2A |
| 29 | F | 201 | CLA | C4-C3-C5-C6 |
| 29 | B | 825 | CLA | C2-C1-O2A-CGA |
| 29 | B | 837 | CLA | C2-C1-O2A-CGA |
| 29 | b | 302 | CLA | C2-C1-O2A-CGA |
| 29 | j | 308 | CLA | C2-C1-O2A-CGA |
| 31 | a | 318 | LHG | C17-C18-C19-C20 |
| 29 | B | 825 | CLA | C15-C16-C17-C18 |
| 29 | A | 835 | CLA | C14-C13-C15-C16 |
| 29 | e | 307 | CLA | C15-C16-C17-C18 |
| 29 | L | 207 | CLA | C4-C3-C5-C6 |
| 29 | j | 304 | CLA | C4-C3-C5-C6 |
| 31 | n | 619 | LHG | C33-C34-C35-C36 |
| 37 | O | 205 | LMG | O9-C10-O7-C8 |
| 29 | n | 610 | CLA | C8-C10-C11-C12 |
| 29 | a | 307 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 309 | CLA | C2A-CAA-CBA-CGA |
| 32 | A | 845 | WVN | C06-C13-C20-C23 |
| 39 | c | 315 | IHT | C02-C07-C18-C22 |
| 29 | i | 308 | CLA | CAA-CBA-CGA-O2A |
| 37 | L | 210 | LMG | O1-C7-C8-C9 |
| 29 | A | 832 | CLA | C5-C6-C7-C8 |
| 36 | B | 844 | DGD | C9B-CAB-CBB-CCB |
| 38 | m | 614 | II0 | C26-C30-C32-C34 |
| 38 | m | 614 | II0 | C35-C39-C41-C42 |
| 31 | g | 301 | LHG | C33-C34-C35-C36 |
| 29 | j | 302 | CLA | C4-C3-C5-C6 |
| 29 | g | 316 | CLA | C4-C3-C5-C6 |
| 29 | J | 102 | CLA | C1A-C2A-CAA-CBA |
| 37 | b | 319 | LMG | C34-C35-C36-C37 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 809 | CLA | C2-C3-C5-C6 |
| 29 | B | 810 | CLA | C2-C3-C5-C6 |
| 36 | B | 844 | DGD | C8B-C9B-CAB-CBB |
| 29 | A | 818 | CLA | C8-C10-C11-C12 |
| 29 | B | 840 | CLA | C13-C15-C16-C17 |
| 37 | F | 208 | LMG | C8-C7-O1-C1 |
| 31 | A | 848 | LHG | C10-C11-C12-C13 |
| 29 | A | 802 | CLA | C15-C16-C17-C18 |
| 29 | A | 840 | CLA | CAA-CBA-CGA-O2A |
| 29 | l | 306 | CLA | C15-C16-C17-C18 |
| 29 | f | 608 | CLA | C5-C6-C7-C8 |
| 29 | n | 609 | CLA | C13-C15-C16-C17 |
| 31 | c | 316 | LHG | O6-C4-C5-O7 |
| 31 | n | 619 | LHG | O6-C4-C5-O7 |
| 37 | L | 210 | LMG | C31-C32-C33-C34 |
| 29 | j | 303 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 809 | CLA | C2A-CAA-CBA-CGA |
| 29 | d | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | Q | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 308 | CLA | CAA-CBA-CGA-O2A |
| 31 | c | 320 | LHG | C19-C20-C21-C22 |
| 29 | d | 305 | CLA | CAA-CBA-CGA-O2A |
| 29 | L | 203 | CLA | C4-C3-C5-C6 |
| 29 | L | 204 | CLA | C4-C3-C5-C6 |
| 29 | m | 613 | CLA | C4-C3-C5-C6 |
| 29 | i | 303 | CLA | C4-C3-C5-C6 |
| 29 | i | 307 | CLA | C4-C3-C5-C6 |
| 29 | g | 302 | CLA | C4-C3-C5-C6 |
| 29 | A | 818 | CLA | C12-C13-C15-C16 |
| 29 | B | 806 | CLA | C6-C7-C8-C10 |
| 29 | B | 820 | CLA | C2-C3-C5-C6 |
| 29 | B | 841 | CLA | C2-C3-C5-C6 |
| 29 | l | 304 | CLA | C12-C13-C15-C16 |
| 29 | l | 306 | CLA | C2-C3-C5-C6 |
| 29 | A | 829 | CLA | CBA-CGA-O2A-C1 |
| 29 | e | 311 | CLA | C5-C6-C7-C8 |
| 32 | A | 854 | WVN | C32-C36-C39-C40 |
| 38 | J | 103 | II0 | C35-C39-C41-C42 |
| 37 | O | 205 | LMG | O1-C7-C8-O7 |
| 37 | F | 206 | LMG | C29-C28-O8-C9 |
| 29 | j | 306 | CLA | CAA-CBA-CGA-O1A |
| 29 | B | 842 | CLA | CAA-CBA-CGA-O2A |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | s | 406 | CLA | CAA-CBA-CGA-O2A |
| 33 | A | 849 | LMU | C1-C2-C3-C4 |
| 31 | a | 318 | LHG | C34-C35-C36-C37 |
| 28 | A | 801 | CL0 | C15-C16-C17-C18 |
| 36 | j | 319 | DGD | CBA-CCA-CDA-CEA |
| 29 | i | 307 | CLA | CBA-CGA-O2A-C1 |
| 31 | g | 322 | LHG | C24-C23-O8-C6 |
| 32 | F | 204 | WVN | C35-C32-C36-C39 |
| 29 | d | 308 | CLA | CAA-CBA-CGA-O2A |
| 29 | A | 827 | CLA | C4-C3-C5-C6 |
| 29 | B | 822 | CLA | C4-C3-C5-C6 |
| 29 | a | 308 | CLA | C4-C3-C5-C6 |
| 29 | f | 610 | CLA | C4C-C3C-CAC-CBC |
| 31 | J | 104 | LHG | C4-O6-P-O3 |
| 29 | b | 312 | CLA | C2-C3-C5-C6 |
| 29 | f | 607 | CLA | C2-C3-C5-C6 |
| 31 | c | 320 | LHG | O8-C23-C24-C25 |
| 29 | A | 816 | CLA | C11-C10-C8-C9 |
| 29 | A | 831 | CLA | C14-C13-C15-C16 |
| 29 | B | 806 | CLA | C14-C13-C15-C16 |
| 29 | B | 808 | CLA | C14-C13-C15-C16 |
| 29 | B | 825 | CLA | C14-C13-C15-C16 |
| 29 | F | 201 | CLA | C11-C10-C8-C9 |
| 29 | c | 302 | CLA | C6-C7-C8-C9 |
| 29 | c | 304 | CLA | C14-C13-C15-C16 |
| 29 | b | 306 | CLA | C6-C7-C8-C9 |
| 29 | b | 308 | CLA | C14-C13-C15-C16 |
| 29 | b | 311 | CLA | C6-C7-C8-C9 |
| 29 | m | 606 | CLA | C14-C13-C15-C16 |
| 29 | k | 602 | CLA | C6-C7-C8-C9 |
| 29 | f | 607 | CLA | C11-C10-C8-C9 |
| 29 | f | 610 | CLA | C11-C12-C13-C14 |
| 29 | i | 311 | CLA | C6-C7-C8-C9 |
| 31 | f | 619 | LHG | C33-C34-C35-C36 |
| 31 | e | 317 | LHG | C9-C10-C11-C12 |
| 29 | A | 812 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 815 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 819 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 850 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 824 | CLA | C3A-C2A-CAA-CBA |
| 29 | h | 305 | CLA | C3A-C2A-CAA-CBA |
| 29 | e | 311 | CLA | C3A-C2A-CAA-CBA |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | j | 309 | CLA | C3A-C2A-CAA-CBA |
| 29 | Q | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | g | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 829 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 801 | CLA | CAA-CBA-CGA-O2A |
| 29 | A | 806 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 812 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 821 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 834 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 835 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 802 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 813 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 819 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 828 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 308 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 308 | CLA | CAD-CBD-CGD-O2D |
| 29 | h | 307 | CLA | CAD-CBD-CGD-O2D |
| 29 | h | 312 | CLA | CAD-CBD-CGD-O2D |
| 29 | m | 613 | CLA | CAD-CBD-CGD-O2D |
| 29 | e | 302 | CLA | CAD-CBD-CGD-O2D |
| 29 | e | 303 | CLA | CAD-CBD-CGD-O2D |
| 29 | e | 310 | CLA | CAD-CBD-CGD-O2D |
| 29 | k | 602 | CLA | CAD-CBD-CGD-O2D |
| 29 | k | 614 | CLA | CAD-CBD-CGD-O2D |
| 29 | f | 603 | CLA | CAD-CBD-CGD-O2D |
| 29 | f | 606 | CLA | CAD-CBD-CGD-O2D |
| 29 | f | 612 | CLA | CAD-CBD-CGD-O2D |
| 29 | f | 613 | CLA | CAD-CBD-CGD-O2D |
| 29 | i | 311 | CLA | CAD-CBD-CGD-O2D |
| 29 | d | 305 | CLA | CAD-CBD-CGD-O2D |
| 29 | g | 302 | CLA | CAD-CBD-CGD-O2D |
| 29 | R | 203 | CLA | CAD-CBD-CGD-O2D |
| 40 | d | 311 | KC2 | C2B-C3B-CAB-CBB |
| 40 | g | 314 | KC2 | CAD-CBD-CGD-O2D |
| 40 | n | 612 | KC2 | CAD-CBD-CGD-O2D |
| 29 | A | 835 | CLA | C2A-CAA-CBA-CGA |
| 29 | s | 406 | CLA | CBD-CGD-O2D-CED |
| 36 | j | 319 | DGD | C7A-C8A-C9A-CAA |
| 37 | c | 317 | LMG | C38-C39-C40-C41 |
| 29 | a | 310 | CLA | CAA-CBA-CGA-O2A |
| 29 | m | 610 | CLA | CAA-CBA-CGA-O2A |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | e | 304 | CLA | CAA-CBA-CGA-O2A |
| 37 | n | 620 | LMG | O8-C28-C29-C30 |
| 29 | B | 810 | CLA | C4-C3-C5-C6 |
| 29 | b | 308 | CLA | C4-C3-C5-C6 |
| 29 | f | 602 | CLA | C16-C17-C18-C19 |
| 29 | B | 822 | CLA | C3-C5-C6-C7 |
| 32 | A | 847 | WVN | C29-C31-C32-C36 |
| 38 | b | 315 | II0 | C32-C34-C36-C40 |
| 38 | h | 310 | II0 | C32-C34-C36-C40 |
| 38 | d | 315 | II0 | C31-C33-C35-C39 |
| 31 | c | 316 | LHG | C4-C5-C6-O8 |
| 29 | A | 812 | CLA | CAA-CBA-CGA-O2A |
| 29 | s | 402 | CLA | CAA-CBA-CGA-O2A |
| 29 | A | 827 | CLA | O2A-C1-C2-C3 |
| 29 | B | 831 | CLA | O2A-C1-C2-C3 |
| 29 | B | 841 | CLA | O2A-C1-C2-C3 |
| 29 | h | 301 | CLA | O2A-C1-C2-C3 |
| 29 | m | 610 | CLA | O2A-C1-C2-C3 |
| 40 | e | 309 | KC2 | C4B-C3B-CAB-CBB |
| 40 | e | 309 | KC2 | C4C-C3C-CAC-CBC |
| 40 | j | 312 | KC2 | C4C-C3C-CAC-CBC |
| 40 | d | 311 | KC2 | C4B-C3B-CAB-CBB |
| 40 | d | 311 | KC2 | C4C-C3C-CAC-CBC |
| 40 | g | 314 | KC2 | C4C-C3C-CAC-CBC |
| 29 | B | 825 | CLA | C10-C11-C12-C13 |
| 31 | J | 104 | LHG | O2-C2-C3-O3 |
| 31 | c | 316 | LHG | C11-C12-C13-C14 |
| 29 | A | 824 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 802 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 802 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 803 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 807 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 807 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 810 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 810 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 814 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 819 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 832 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 835 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 812 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 833 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 837 | CLA | CHA-CBD-CGD-O1D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 837 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 842 | CLA | CHA-CBD-CGD-O1D |
| 29 | F | 203 | CLA | CHA-CBD-CGD-O1D |
| 29 | K | 102 | CLA | CHA-CBD-CGD-O1D |
| 29 | K | 102 | CLA | CHA-CBD-CGD-O2D |
| 29 | c | 301 | CLA | CHA-CBD-CGD-O1D |
| 29 | c | 301 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 307 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 307 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 302 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 312 | CLA | CHA-CBD-CGD-O2D |
| 29 | m | 601 | CLA | CHA-CBD-CGD-O2D |
| 29 | m | 605 | CLA | CHA-CBD-CGD-O1D |
| 29 | l | 304 | CLA | CHA-CBD-CGD-O2D |
| 29 | k | 605 | CLA | CHA-CBD-CGD-O2D |
| 29 | k | 608 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 605 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 605 | CLA | CHA-CBD-CGD-O2D |
| 29 | f | 608 | CLA | CHA-CBD-CGD-O2D |
| 29 | i | 304 | CLA | CHA-CBD-CGD-O2D |
| 29 | i | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | j | 306 | CLA | CHA-CBD-CGD-O1D |
| 29 | j | 306 | CLA | CHA-CBD-CGD-O2D |
| 29 | d | 303 | CLA | CHA-CBD-CGD-O1D |
| 29 | d | 303 | CLA | CHA-CBD-CGD-O2D |
| 29 | n | 603 | CLA | CHA-CBD-CGD-O2D |
| 29 | n | 605 | CLA | CHA-CBD-CGD-O1D |
| 29 | n | 605 | CLA | CHA-CBD-CGD-O2D |
| 29 | n | 607 | CLA | CHA-CBD-CGD-O1D |
| 29 | n | 610 | CLA | CHA-CBD-CGD-O1D |
| 29 | n | 610 | CLA | CHA-CBD-CGD-O2D |
| 32 | I | 101 | WVN | C34-C37-C40-C39 |
| 38 | d | 316 | II0 | C26-C30-C32-C34 |
| 40 | c | 310 | KC2 | CHA-CBD-CGD-O1D |
| 40 | c | 310 | KC2 | CHA-CBD-CGD-O2D |
| 40 | f | 611 | KC2 | CHA-CBD-CGD-O1D |
| 40 | f | 611 | KC2 | CHA-CBD-CGD-O2D |
| 40 | i | 310 | KC2 | CHA-CBD-CGD-O1D |
| 40 | i | 310 | KC2 | CHA-CBD-CGD-O2D |
| 40 | d | 311 | KC2 | CHA-CBD-CGD-O1D |
| 40 | d | 311 | KC2 | CHA-CBD-CGD-O2D |
| 40 | g | 313 | KC2 | CHA-CBD-CGD-O2D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | d | 304 | CLA | CAA-CBA-CGA-O2A |
| 37 | b | 319 | LMG | O8-C28-C29-C30 |
| 29 | B | 818 | CLA | CBA-CGA-O2A-C1 |
| 29 | g | 316 | CLA | C2-C3-C5-C6 |
| 35 | A | 853 | SQD | C10-C11-C12-C13 |
| 29 | e | 304 | CLA | C3-C5-C6-C7 |
| 29 | A | 829 | CLA | C15-C16-C17-C18 |
| 29 | B | 839 | CLA | CAA-CBA-CGA-O1A |
| 31 | a | 301 | LHG | O6-C4-C5-C6 |
| 31 | g | 301 | LHG | O6-C4-C5-C6 |
| 32 | B | 845 | WVN | C23-C25-C28-C30 |
| 32 | F | 207 | WVN | C19-C22-C26-C29 |
| 32 | L | 201 | WVN | C23-C25-C28-C30 |
| 38 | e | 313 | II0 | C34-C36-C40-C42 |
| 39 | g | 324 | IHT | C22-C23-C27-C30 |
| 29 | j | 304 | CLA | CAA-CBA-CGA-O2A |
| 31 | A | 848 | LHG | O7-C7-C8-C9 |
| 31 | L | 209 | LHG | O8-C23-C24-C25 |
| 31 | a | 318 | LHG | C33-C34-C35-C36 |
| 33 | i | 301 | LMU | C6-C7-C8-C9 |
| 31 | b | 318 | LHG | O7-C5-C6-O8 |
| 31 | c | 316 | LHG | C23-C24-C25-C26 |
| 37 | L | 210 | LMG | C24-C25-C26-C27 |
| 29 | m | 604 | CLA | C10-C11-C12-C13 |
| 29 | s | 406 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 831 | CLA | C5-C6-C7-C8 |
| 29 | B | 806 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 820 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 837 | CLA | CAA-CBA-CGA-O2A |
| 29 | m | 608 | CLA | CAA-CBA-CGA-O2A |
| 29 | k | 604 | CLA | CAA-CBA-CGA-O2A |
| 29 | g | 302 | CLA | CAA-CBA-CGA-O2A |
| 29 | g | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | d | 304 | CLA | CAA-CBA-CGA-O1A |
| 29 | A | 838 | CLA | C15-C16-C17-C18 |
| 29 | f | 604 | CLA | C10-C11-C12-C13 |
| 29 | g | 309 | CLA | C8-C10-C11-C12 |
| 29 | B | 805 | CLA | CAA-CBA-CGA-O1A |
| 29 | A | 822 | CLA | CAA-CBA-CGA-O2A |
| 29 | h | 303 | CLA | CAA-CBA-CGA-O2A |
| 29 | n | 605 | CLA | CAA-CBA-CGA-O2A |
| 31 | A | 842 | LHG | C33-C34-C35-C36 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 824 | CLA | C12-C13-C15-C16 |
| 29 | B | 805 | CLA | C11-C12-C13-C15 |
| 29 | B | 838 | CLA | C11-C10-C8-C7 |
| 29 | L | 203 | CLA | C2-C3-C5-C6 |
| 29 | L | 204 | CLA | C2-C3-C5-C6 |
| 29 | c | 308 | CLA | C6-C7-C8-C10 |
| 29 | f | 609 | CLA | C6-C7-C8-C10 |
| 29 | g | 305 | CLA | C12-C13-C15-C16 |
| 29 | m | 609 | CLA | C11-C12-C13-C15 |
| 31 | a | 318 | LHG | O8-C23-C24-C25 |
| 29 | A | 826 | CLA | C6-C7-C8-C9 |
| 29 | B | 838 | CLA | C11-C10-C8-C9 |
| 29 | F | 202 | CLA | C6-C7-C8-C9 |
| 29 | K | 101 | CLA | C11-C12-C13-C14 |
| 29 | c | 312 | CLA | C11-C10-C8-C9 |
| 29 | a | 307 | CLA | C11-C12-C13-C14 |
| 29 | b | 306 | CLA | C14-C13-C15-C16 |
| 29 | h | 305 | CLA | C11-C12-C13-C14 |
| 29 | h | 312 | CLA | C11-C10-C8-C9 |
| 29 | d | 302 | CLA | C11-C10-C8-C9 |
| 29 | g | 306 | CLA | C6-C7-C8-C9 |
| 31 | f | 620 | LHG | C23-C24-C25-C26 |
| 31 | c | 316 | LHG | C5-C6-O8-C23 |
| 31 | c | 320 | LHG | O10-C23-C24-C25 |
| 31 | f | 619 | LHG | C29-C30-C31-C32 |
| 29 | A | 840 | CLA | C13-C15-C16-C17 |
| 31 | s | 408 | LHG | O7-C7-C8-C9 |
| 37 | L | 210 | LMG | C17-C18-C19-C20 |
| 29 | j | 302 | CLA | O1A-CGA-O2A-C1 |
| 37 | F | 206 | LMG | C29-C30-C31-C32 |
| 29 | B | 803 | CLA | C5-C6-C7-C8 |
| 29 | b | 313 | CLA | C2A-CAA-CBA-CGA |
| 31 | s | 408 | LHG | O9-C7-C8-C9 |
| 31 | f | 619 | LHG | O7-C7-C8-C9 |
| 31 | i | 317 | LHG | O9-C7-C8-C9 |
| 37 | L | 210 | LMG | O10-C28-C29-C30 |
| 29 | B | 834 | CLA | C15-C16-C17-C18 |
| 29 | f | 602 | CLA | C16-C17-C18-C20 |
| 29 | n | 613 | CLA | O1A-CGA-O2A-C1 |
| 31 | A | 842 | LHG | O10-C23-C24-C25 |
| 29 | A | 824 | CLA | CBA-CGA-O2A-C1 |
| 29 | j | 302 | CLA | CBA-CGA-O2A-C1 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 834 | CLA | C10-C11-C12-C13 |
| 29 | n | 605 | CLA | C2C-C3C-CAC-CBC |
| 36 | j | 319 | DGD | C5A-C6A-C7A-C8A |
| 29 | A | 802 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 815 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 819 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 821 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 823 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 839 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 822 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 833 | CLA | C1A-C2A-CAA-CBA |
| 29 | h | 305 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 609 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | j | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | Q | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | m | 610 | CLA | CAA-CBA-CGA-O1A |
| 29 | d | 308 | CLA | CAA-CBA-CGA-O1A |
| 29 | e | 304 | CLA | O1A-CGA-O2A-C1 |
| 29 | m | 609 | CLA | C2-C1-O2A-CGA |
| 29 | j | 310 | CLA | C2-C1-O2A-CGA |
| 29 | g | 311 | CLA | C2-C1-O2A-CGA |
| 37 | F | 208 | LMG | C4-C5-C6-O5 |
| 29 | e | 304 | CLA | CBA-CGA-O2A-C1 |
| 29 | n | 613 | CLA | CBA-CGA-O2A-C1 |
| 29 | s | 402 | CLA | CAA-CBA-CGA-O1A |
| 29 | h | 303 | CLA | CAA-CBA-CGA-O1A |
| 31 | b | 318 | LHG | O9-C7-C8-C9 |
| 29 | A | 802 | CLA | C13-C15-C16-C17 |
| 29 | k | 608 | CLA | C5-C6-C7-C8 |
| 29 | a | 305 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 306 | CLA | C2A-CAA-CBA-CGA |
| 29 | d | 302 | CLA | C2A-CAA-CBA-CGA |
| 29 | g | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 806 | CLA | CAA-CBA-CGA-O1A |
| 29 | B | 820 | CLA | CAA-CBA-CGA-O1A |
| 29 | a | 310 | CLA | CAA-CBA-CGA-O1A |
| 29 | A | 824 | CLA | C15-C16-C17-C18 |
| 29 | g | 311 | CLA | C8-C10-C11-C12 |
| 29 | B | 841 | CLA | C4-C3-C5-C6 |
| 29 | l | 306 | CLA | C4-C3-C5-C6 |
| 29 | B | 801 | CLA | CAA-CBA-CGA-O1A |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | K | 101 | CLA | C2-C3-C5-C6 |
| 29 | g | 302 | CLA | C2-C3-C5-C6 |
| 31 | A | 848 | LHG | C3-O3-P-O5 |
| 31 | L | 208 | LHG | C4-O6-P-O4 |
| 31 | c | 320 | LHG | C4-O6-P-O5 |
| 31 | m | 619 | LHG | C4-O6-P-O4 |
| 31 | j | 318 | LHG | C3-O3-P-O5 |
| 29 | g | 310 | CLA | C16-C17-C18-C19 |
| 33 | a | 319 | LMU | C9-C10-C11-C12 |
| 29 | e | 304 | CLA | CAA-CBA-CGA-O1A |
| 29 | k | 604 | CLA | CAA-CBA-CGA-O1A |
| 31 | A | 848 | LHG | O9-C7-C8-C9 |
| 31 | L | 209 | LHG | O10-C23-C24-C25 |
| 29 | e | 311 | CLA | CAA-CBA-CGA-O2A |
| 38 | J | 103 | II0 | C38-C36-C40-C42 |
| 31 | a | 301 | LHG | C29-C30-C31-C32 |
| 31 | a | 318 | LHG | C25-C26-C27-C28 |
| 40 | s | 401 | KC2 | CAA-CBA-CGA-O1A |
| 29 | b | 313 | CLA | C4C-C3C-CAC-CBC |
| 29 | B | 838 | CLA | C8-C10-C11-C12 |
| 29 | a | 305 | CLA | C10-C11-C12-C13 |
| 29 | h | 305 | CLA | C10-C11-C12-C13 |
| 29 | A | 812 | CLA | CAA-CBA-CGA-O1A |
| 29 | j | 304 | CLA | CAA-CBA-CGA-O1A |
| 29 | B | 834 | CLA | O1A-CGA-O2A-C1 |
| 33 | a | 319 | LMU | C4B-C5B-C6B-O6B |
| 29 | B | 826 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 305 | CLA | CAA-CBA-CGA-O2A |
| 29 | e | 302 | CLA | CAA-CBA-CGA-O2A |
| 37 | c | 318 | LMG | O8-C28-C29-C30 |
| 29 | B | 819 | CLA | C16-C17-C18-C20 |
| 29 | A | 840 | CLA | C2A-CAA-CBA-CGA |
| 40 | s | 401 | KC2 | CAA-CBA-CGA-O2A |
| 30 | B | 843 | PQN | C25-C26-C27-C28 |
| 31 | f | 619 | LHG | O9-C7-C8-C9 |
| 29 | j | 302 | CLA | C2-C3-C5-C6 |
| 29 | A | 802 | CLA | CAD-CBD-CGD-O1D |
| 29 | A | 813 | CLA | CAD-CBD-CGD-O1D |
| 29 | A | 835 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 801 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 807 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 812 | CLA | CAD-CBD-CGD-O1D |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | B | 833 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 842 | CLA | CAD-CBD-CGD-O1D |
| 29 | L | 203 | CLA | CAD-CBD-CGD-O1D |
| 29 | c | 304 | CLA | CAD-CBD-CGD-O1D |
| 29 | k | 614 | CLA | C2-C3-C5-C6 |
| 29 | f | 612 | CLA | C2-C3-C5-C6 |
| 29 | i | 308 | CLA | CAD-CBD-CGD-O1D |
| 29 | j | 313 | CLA | C2-C3-C5-C6 |
| 29 | n | 603 | CLA | C2-C3-C5-C6 |
| 38 | J | 103 | II0 | C24-C26-C30-C32 |
| 38 | m | 618 | II0 | C24-C26-C30-C32 |
| 29 | A | 822 | CLA | CAA-CBA-CGA-O1A |
| 31 | f | 620 | LHG | C24-C25-C26-C27 |
| 29 | A | 819 | CLA | CAA-CBA-CGA-O2A |
| 29 | O | 206 | CLA | CAA-CBA-CGA-O2A |
| 29 | i | 306 | CLA | CAA-CBA-CGA-O2A |
| 29 | n | 604 | CLA | CAA-CBA-CGA-O2A |
| 35 | A | 853 | SQD | O47-C7-C8-C9 |
| 29 | A | 810 | CLA | C11-C12-C13-C14 |
| 29 | A | 833 | CLA | C6-C7-C8-C9 |
| 29 | B | 805 | CLA | C11-C12-C13-C14 |
| 29 | B | 820 | CLA | C11-C12-C13-C14 |
| 29 | a | 310 | CLA | C11-C12-C13-C14 |
| 29 | l | 301 | CLA | C14-C13-C15-C16 |
| 29 | l | 306 | CLA | C11-C10-C8-C9 |
| 31 | l | 318 | LHG | C25-C26-C27-C28 |
| 29 | s | 403 | CLA | C5-C6-C7-C8 |
| 29 | f | 610 | CLA | C15-C16-C17-C18 |
| 29 | m | 608 | CLA | CAA-CBA-CGA-O1A |
| 31 | a | 318 | LHG | O10-C23-C24-C25 |
| 35 | A | 853 | SQD | O49-C7-C8-C9 |
| 37 | F | 206 | LMG | O9-C10-C11-C12 |
| 29 | c | 304 | CLA | CAA-CBA-CGA-O2A |
| 29 | l | 301 | CLA | CAA-CBA-CGA-O2A |
| 29 | f | 603 | CLA | CAA-CBA-CGA-O2A |
| 29 | i | 305 | CLA | CAA-CBA-CGA-O2A |
| 29 | A | 819 | CLA | C5-C6-C7-C8 |
| 37 | n | 620 | LMG | C16-C17-C18-C19 |
| 29 | g | 302 | CLA | CAA-CBA-CGA-O1A |
| 29 | n | 609 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 811 | CLA | C5-C6-C7-C8 |
| 29 | A | 836 | CLA | CAA-CBA-CGA-O2A |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | A | 837 | CLA | CAA-CBA-CGA-O2A |
| 29 | O | 201 | CLA | CAA-CBA-CGA-O2A |
| 29 | c | 303 | CLA | CAA-CBA-CGA-O2A |
| 29 | m | 604 | CLA | CAA-CBA-CGA-O2A |
| 29 | e | 307 | CLA | CAA-CBA-CGA-O2A |
| 29 | l | 306 | CLA | CAA-CBA-CGA-O2A |
| 29 | j | 305 | CLA | CAA-CBA-CGA-O2A |
| 29 | j | 310 | CLA | CAA-CBA-CGA-O2A |
| 31 | n | 619 | LHG | O7-C7-C8-C9 |
| 29 | B | 818 | CLA | O1A-CGA-O2A-C1 |
| 29 | j | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 837 | CLA | CAA-CBA-CGA-O1A |
| 29 | m | 609 | CLA | CAA-CBA-CGA-O1A |
| 37 | b | 319 | LMG | O10-C28-C29-C30 |
| 29 | s | 406 | CLA | C4-C3-C5-C6 |
| 29 | b | 312 | CLA | C4-C3-C5-C6 |
| 29 | g | 312 | CLA | C4-C3-C5-C6 |
| 29 | O | 202 | CLA | C15-C16-C17-C18 |
| 31 | b | 318 | LHG | C34-C35-C36-C37 |
| 28 | A | 801 | CL0 | C11-C10-C8-C7 |
| 29 | A | 803 | CLA | C2-C3-C5-C6 |
| 29 | A | 813 | CLA | C3A-C2A-CAA-CBA |
| 29 | A | 826 | CLA | C11-C10-C8-C7 |
| 29 | A | 838 | CLA | C11-C12-C13-C15 |
| 29 | A | 851 | CLA | C11-C12-C13-C15 |
| 29 | B | 804 | CLA | C11-C10-C8-C7 |
| 29 | F | 201 | CLA | C2-C3-C5-C6 |
| 29 | c | 304 | CLA | C11-C12-C13-C15 |
| 29 | c | 312 | CLA | C11-C10-C8-C7 |
| 29 | a | 303 | CLA | C6-C7-C8-C10 |
| 29 | h | 312 | CLA | C11-C10-C8-C7 |
| 29 | l | 306 | CLA | C11-C10-C8-C7 |
| 29 | i | 308 | CLA | C11-C10-C8-C7 |
| 29 | g | 302 | CLA | C6-C7-C8-C10 |
| 29 | g | 311 | CLA | C6-C7-C8-C10 |
| 31 | a | 301 | LHG | O6-C4-C5-O7 |
| 29 | n | 605 | CLA | CAA-CBA-CGA-O1A |
| 29 | B | 816 | CLA | CAA-CBA-CGA-O2A |
| 29 | O | 202 | CLA | CAA-CBA-CGA-O2A |
| 29 | c | 307 | CLA | CAA-CBA-CGA-O2A |
| 29 | h | 307 | CLA | CAA-CBA-CGA-O2A |
| 29 | m | 609 | CLA | CAA-CBA-CGA-O2A |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Atoms |
|---|---|---|---|---|
| 29 | e | 303 | CLA | CAA-CBA-CGA-O2A |
| 29 | g | 306 | CLA | CAA-CBA-CGA-O2A |
| 29 | n | 607 | CLA | CAA-CBA-CGA-O2A |
| 31 | A | 842 | LHG | O8-C23-C24-C25 |
| 31 | i | 317 | LHG | O7-C7-C8-C9 |
| 37 | c | 317 | LMG | O7-C10-C11-C12 |
| 29 | A | 836 | CLA | C3-C5-C6-C7 |
| 32 | l | 302 | WVN | C11-C19-C22-C26 |
| 32 | i | 315 | WVN | C30-C33-C34-C37 |
| 29 | A | 836 | CLA | CAA-CBA-CGA-O1A |
| 29 | h | 301 | CLA | CAA-CBA-CGA-O1A |
| 33 | a | 319 | LMU | C2-C1-O1'-C1' |
| 29 | A | 808 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 809 | CLA | CAA-CBA-CGA-O2A |
| 36 | j | 319 | DGD | CAB-CBB-CCB-CDB |
| 29 | b | 309 | CLA | C10-C11-C12-C13 |
| 29 | m | 604 | CLA | C13-C15-C16-C17 |
| 29 | A | 837 | CLA | CAA-CBA-CGA-O1A |
| 29 | B | 828 | CLA | CAA-CBA-CGA-O1A |
| 29 | O | 201 | CLA | CAA-CBA-CGA-O1A |
| 29 | c | 307 | CLA | CAA-CBA-CGA-O1A |
| 29 | m | 604 | CLA | CAA-CBA-CGA-O1A |
| 29 | l | 306 | CLA | CAA-CBA-CGA-O1A |
| 29 | f | 603 | CLA | CAA-CBA-CGA-O1A |
| 29 | i | 306 | CLA | CAA-CBA-CGA-O1A |
| 31 | e | 317 | LHG | C31-C32-C33-C34 |
| 29 | A | 830 | CLA | C5-C6-C7-C8 |
| 31 | L | 208 | LHG | C31-C32-C33-C34 |
| 29 | B | 828 | CLA | CAA-CBA-CGA-O2A |
| 29 | h | 312 | CLA | CAA-CBA-CGA-O2A |
| 29 | g | 323 | CLA | CAA-CBA-CGA-O2A |
| 31 | A | 842 | LHG | C17-C18-C19-C20 |
| 31 | c | 320 | LHG | C10-C11-C12-C13 |
| 29 | c | 308 | CLA | C8-C10-C11-C12 |
| 29 | B | 841 | CLA | C5-C6-C7-C8 |
| 29 | B | 841 | CLA | C13-C15-C16-C17 |
| 29 | a | 310 | CLA | C15-C16-C17-C18 |
| 37 | F | 206 | LMG | C10-C11-C12-C13 |
| 29 | g | 306 | CLA | CAA-CBA-CGA-O1A |
| 29 | n | 607 | CLA | CAA-CBA-CGA-O1A |
| 29 | A | 833 | CLA | CAA-CBA-CGA-O2A |

There are no ring outliers.

249 monomers are involved in 448 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|---|---|---|---|---|---|
| 29 | A | 820 | CLA | 1 | 0 |
| 29 | B | 819 | CLA | 5 | 0 |
| 31 | L | 209 | LHG | 1 | 0 |
| 29 | a | 312 | CLA | 1 | 0 |
| 29 | B | 820 | CLA | 3 | 0 |
| 29 | j | 310 | CLA | 2 | 0 |
| 29 | L | 202 | CLA | 1 | 0 |
| 29 | A | 824 | CLA | 2 | 0 |
| 29 | i | 306 | CLA | 1 | 0 |
| 29 | l | 301 | CLA | 3 | 0 |
| 29 | g | 305 | CLA | 3 | 0 |
| 37 | n | 620 | LMG | 2 | 0 |
| 29 | c | 301 | CLA | 1 | 0 |
| 29 | g | 302 | CLA | 3 | 0 |
| 29 | B | 832 | CLA | 1 | 0 |
| 40 | g | 313 | KC2 | 1 | 0 |
| 29 | a | 309 | CLA | 2 | 0 |
| 29 | l | 312 | CLA | 1 | 0 |
| 38 | g | 321 | II0 | 1 | 0 |
| 29 | A | 804 | CLA | 4 | 0 |
| 29 | g | 316 | CLA | 4 | 0 |
| 29 | k | 604 | CLA | 2 | 0 |
| 29 | B | 827 | CLA | 2 | 0 |
| 29 | m | 607 | CLA | 4 | 0 |
| 29 | h | 306 | CLA | 2 | 0 |
| 29 | B | 823 | CLA | 1 | 0 |
| 29 | i | 302 | CLA | 3 | 0 |
| 31 | a | 301 | LHG | 3 | 0 |
| 29 | A | 810 | CLA | 3 | 0 |
| 29 | A | 834 | CLA | 1 | 0 |
| 29 | c | 311 | CLA | 2 | 0 |
| 29 | i | 304 | CLA | 1 | 0 |
| 29 | h | 304 | CLA | 2 | 0 |
| 29 | B | 814 | CLA | 3 | 0 |
| 37 | F | 208 | LMG | 1 | 0 |
| 29 | b | 312 | CLA | 6 | 0 |
| 29 | n | 605 | CLA | 1 | 0 |
| 29 | A | 837 | CLA | 3 | 0 |
| 29 | e | 306 | CLA | 2 | 0 |
| 29 | A | 811 | CLA | 1 | 0 |
| 29 | i | 308 | CLA | 1 | 0 |
| 29 | h | 312 | CLA | 1 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|---|---|---|---|---|---|
| 29 | s | 402 | CLA | 2 | 0 |
| 29 | n | 603 | CLA | 1 | 0 |
| 29 | B | 824 | CLA | 2 | 0 |
| 29 | m | 613 | CLA | 4 | 0 |
| 29 | A | 823 | CLA | 4 | 0 |
| 29 | F | 201 | CLA | 2 | 0 |
| 29 | a | 311 | CLA | 2 | 0 |
| 29 | B | 840 | CLA | 5 | 0 |
| 29 | B | 833 | CLA | 1 | 0 |
| 29 | A | 822 | CLA | 3 | 0 |
| 38 | n | 614 | II0 | 3 | 0 |
| 31 | A | 843 | LHG | 1 | 0 |
| 29 | b | 311 | CLA | 4 | 0 |
| 29 | F | 202 | CLA | 2 | 0 |
| 29 | K | 101 | CLA | 3 | 0 |
| 29 | b | 306 | CLA | 4 | 0 |
| 29 | l | 310 | CLA | 1 | 0 |
| 38 | b | 317 | II0 | 1 | 0 |
| 29 | B | 837 | CLA | 1 | 0 |
| 29 | B | 803 | CLA | 2 | 0 |
| 29 | i | 312 | CLA | 2 | 0 |
| 37 | Q | 301 | LMG | 4 | 0 |
| 29 | j | 314 | CLA | 3 | 0 |
| 29 | g | 304 | CLA | 6 | 0 |
| 29 | b | 303 | CLA | 1 | 0 |
| 29 | A | 802 | CLA | 1 | 0 |
| 29 | b | 313 | CLA | 3 | 0 |
| 29 | L | 203 | CLA | 4 | 0 |
| 39 | g | 320 | IHT | 1 | 0 |
| 29 | a | 307 | CLA | 6 | 0 |
| 29 | A | 826 | CLA | 2 | 0 |
| 29 | c | 308 | CLA | 5 | 0 |
| 29 | g | 310 | CLA | 1 | 0 |
| 37 | F | 206 | LMG | 3 | 0 |
| 29 | B | 830 | CLA | 4 | 0 |
| 39 | b | 316 | IHT | 1 | 0 |
| 31 | g | 301 | LHG | 1 | 0 |
| 31 | J | 104 | LHG | 3 | 0 |
| 38 | g | 317 | II0 | 1 | 0 |
| 29 | B | 801 | CLA | 1 | 0 |
| 31 | b | 318 | LHG | 1 | 0 |
| 29 | A | 830 | CLA | 1 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|---|---|---|---|---|---|
| 29 | g | 312 | CLA | 2 | 0 |
| 29 | j | 304 | CLA | 2 | 0 |
| 29 | f | 613 | CLA | 3 | 0 |
| 29 | c | 305 | CLA | 1 | 0 |
| 33 | B | 850 | LMU | 1 | 0 |
| 29 | B | 826 | CLA | 1 | 0 |
| 38 | k | 618 | II0 | 1 | 0 |
| 30 | A | 841 | PQN | 4 | 0 |
| 31 | L | 208 | LHG | 1 | 0 |
| 29 | B | 828 | CLA | 2 | 0 |
| 29 | m | 603 | CLA | 2 | 0 |
| 29 | n | 604 | CLA | 2 | 0 |
| 29 | j | 311 | CLA | 1 | 0 |
| 29 | A | 829 | CLA | 4 | 0 |
| 29 | B | 834 | CLA | 4 | 0 |
| 29 | d | 306 | CLA | 1 | 0 |
| 29 | B | 835 | CLA | 3 | 0 |
| 29 | k | 614 | CLA | 1 | 0 |
| 29 | A | 828 | CLA | 1 | 0 |
| 31 | f | 619 | LHG | 3 | 0 |
| 29 | h | 307 | CLA | 1 | 0 |
| 29 | Q | 302 | CLA | 1 | 0 |
| 29 | A | 832 | CLA | 4 | 0 |
| 29 | B | 842 | CLA | 3 | 0 |
| 38 | n | 616 | II0 | 1 | 0 |
| 39 | n | 617 | IHT | 1 | 0 |
| 31 | s | 408 | LHG | 3 | 0 |
| 29 | B | 809 | CLA | 1 | 0 |
| 29 | B | 810 | CLA | 1 | 0 |
| 29 | k | 603 | CLA | 1 | 0 |
| 29 | l | 306 | CLA | 1 | 0 |
| 29 | g | 306 | CLA | 1 | 0 |
| 29 | f | 610 | CLA | 2 | 0 |
| 29 | d | 302 | CLA | 2 | 0 |
| 29 | A | 827 | CLA | 6 | 0 |
| 29 | B | 831 | CLA | 3 | 0 |
| 29 | c | 306 | CLA | 1 | 0 |
| 29 | n | 610 | CLA | 4 | 0 |
| 29 | l | 304 | CLA | 1 | 0 |
| 29 | n | 609 | CLA | 4 | 0 |
| 29 | F | 203 | CLA | 1 | 0 |
| 29 | k | 609 | CLA | 1 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|---|---|---|---|---|---|
| 29 | A | 816 | CLA | 3 | 0 |
| 40 | l | 311 | KC2 | 3 | 0 |
| 29 | B | 806 | CLA | 2 | 0 |
| 29 | A | 808 | CLA | 1 | 0 |
| 32 | B | 845 | WVN | 1 | 0 |
| 29 | B | 816 | CLA | 2 | 0 |
| 29 | A | 851 | CLA | 4 | 0 |
| 29 | B | 825 | CLA | 5 | 0 |
| 29 | B | 812 | CLA | 3 | 0 |
| 29 | a | 302 | CLA | 4 | 0 |
| 31 | A | 848 | LHG | 1 | 0 |
| 29 | A | 850 | CLA | 2 | 0 |
| 29 | e | 301 | CLA | 1 | 0 |
| 29 | c | 302 | CLA | 1 | 0 |
| 29 | A | 806 | CLA | 2 | 0 |
| 29 | g | 309 | CLA | 1 | 0 |
| 29 | b | 305 | CLA | 5 | 0 |
| 31 | c | 316 | LHG | 1 | 0 |
| 29 | i | 305 | CLA | 1 | 0 |
| 29 | a | 303 | CLA | 1 | 0 |
| 29 | L | 204 | CLA | 1 | 0 |
| 29 | f | 608 | CLA | 3 | 0 |
| 29 | m | 608 | CLA | 1 | 0 |
| 29 | b | 302 | CLA | 2 | 0 |
| 29 | l | 309 | CLA | 1 | 0 |
| 29 | b | 310 | CLA | 3 | 0 |
| 29 | A | 813 | CLA | 1 | 0 |
| 40 | g | 315 | KC2 | 3 | 0 |
| 29 | m | 604 | CLA | 1 | 0 |
| 37 | c | 317 | LMG | 1 | 0 |
| 29 | B | 821 | CLA | 2 | 0 |
| 29 | f | 607 | CLA | 1 | 0 |
| 29 | c | 303 | CLA | 2 | 0 |
| 29 | A | 833 | CLA | 3 | 0 |
| 29 | A | 819 | CLA | 1 | 0 |
| 28 | A | 801 | CL0 | 5 | 0 |
| 29 | A | 814 | CLA | 3 | 0 |
| 29 | A | 835 | CLA | 6 | 0 |
| 29 | A | 818 | CLA | 3 | 0 |
| 29 | a | 308 | CLA | 2 | 0 |
| 29 | i | 307 | CLA | 2 | 0 |
| 36 | j | 319 | DGD | 3 | 0 |

*Continued on next page...*

*Continued from previous page...*

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|---|---|---|---|---|---|
| 40 | s | 404 | KC2 | 2 | 0 |
| 29 | A | 817 | CLA | 2 | 0 |
| 29 | k | 610 | CLA | 1 | 0 |
| 29 | n | 613 | CLA | 2 | 0 |
| 29 | k | 608 | CLA | 1 | 0 |
| 30 | B | 843 | PQN | 1 | 0 |
| 29 | j | 308 | CLA | 1 | 0 |
| 29 | B | 807 | CLA | 3 | 0 |
| 40 | f | 611 | KC2 | 1 | 0 |
| 33 | A | 855 | LMU | 3 | 0 |
| 29 | l | 308 | CLA | 2 | 0 |
| 29 | c | 307 | CLA | 1 | 0 |
| 29 | f | 606 | CLA | 2 | 0 |
| 31 | n | 619 | LHG | 3 | 0 |
| 40 | g | 314 | KC2 | 2 | 0 |
| 29 | s | 403 | CLA | 1 | 0 |
| 29 | m | 602 | CLA | 6 | 0 |
| 29 | n | 602 | CLA | 1 | 0 |
| 29 | f | 601 | CLA | 1 | 0 |
| 29 | g | 323 | CLA | 1 | 0 |
| 29 | B | 805 | CLA | 1 | 0 |
| 29 | d | 304 | CLA | 1 | 0 |
| 29 | j | 309 | CLA | 3 | 0 |
| 31 | A | 842 | LHG | 1 | 0 |
| 29 | c | 312 | CLA | 2 | 0 |
| 29 | s | 406 | CLA | 1 | 0 |
| 29 | h | 301 | CLA | 3 | 0 |
| 29 | a | 305 | CLA | 2 | 0 |
| 29 | O | 201 | CLA | 1 | 0 |
| 29 | R | 203 | CLA | 5 | 0 |
| 29 | a | 310 | CLA | 1 | 0 |
| 29 | A | 831 | CLA | 1 | 0 |
| 29 | A | 812 | CLA | 1 | 0 |
| 29 | n | 607 | CLA | 4 | 0 |
| 29 | d | 313 | CLA | 3 | 0 |
| 39 | g | 324 | IHT | 4 | 0 |
| 29 | k | 607 | CLA | 2 | 0 |
| 29 | L | 207 | CLA | 1 | 0 |
| 29 | h | 305 | CLA | 3 | 0 |
| 29 | k | 602 | CLA | 3 | 0 |
| 29 | e | 304 | CLA | 1 | 0 |
| 29 | j | 302 | CLA | 1 | 0 |

*Continued on next page...*

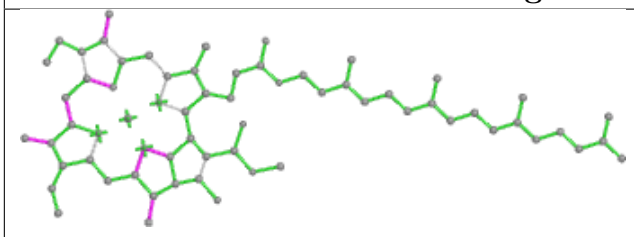
*Continued from previous page...*

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|---|---|---|---|---|---|
| 29 | B | 817 | CLA | 4 | 0 |
| 29 | l | 305 | CLA | 1 | 0 |
| 29 | d | 307 | CLA | 1 | 0 |
| 40 | d | 312 | KC2 | 1 | 0 |
| 29 | b | 309 | CLA | 3 | 0 |
| 29 | O | 202 | CLA | 1 | 0 |
| 29 | B | 804 | CLA | 2 | 0 |
| 29 | e | 307 | CLA | 3 | 0 |
| 29 | B | 829 | CLA | 2 | 0 |
| 29 | j | 313 | CLA | 1 | 0 |
| 31 | c | 320 | LHG | 3 | 0 |
| 29 | b | 307 | CLA | 1 | 0 |
| 29 | A | 803 | CLA | 5 | 0 |
| 29 | j | 306 | CLA | 1 | 0 |
| 29 | B | 841 | CLA | 2 | 0 |
| 29 | e | 311 | CLA | 2 | 0 |
| 40 | s | 401 | KC2 | 1 | 0 |
| 29 | A | 836 | CLA | 3 | 0 |
| 29 | f | 602 | CLA | 2 | 0 |
| 40 | i | 318 | KC2 | 2 | 0 |
| 29 | B | 822 | CLA | 3 | 0 |
| 29 | A | 840 | CLA | 5 | 0 |
| 40 | n | 611 | KC2 | 1 | 0 |
| 29 | m | 610 | CLA | 2 | 0 |
| 31 | m | 619 | LHG | 1 | 0 |
| 37 | c | 318 | LMG | 3 | 0 |
| 38 | b | 314 | II0 | 1 | 0 |
| 29 | B | 815 | CLA | 2 | 0 |
| 29 | A | 838 | CLA | 4 | 0 |
| 29 | B | 813 | CLA | 3 | 0 |
| 29 | e | 305 | CLA | 2 | 0 |
| 29 | B | 808 | CLA | 3 | 0 |
| 36 | B | 844 | DGD | 4 | 0 |
| 29 | B | 838 | CLA | 2 | 0 |
| 37 | b | 319 | LMG | 2 | 0 |
| 29 | n | 608 | CLA | 4 | 0 |
| 29 | g | 311 | CLA | 2 | 0 |
| 31 | i | 317 | LHG | 2 | 0 |
| 29 | e | 302 | CLA | 4 | 0 |

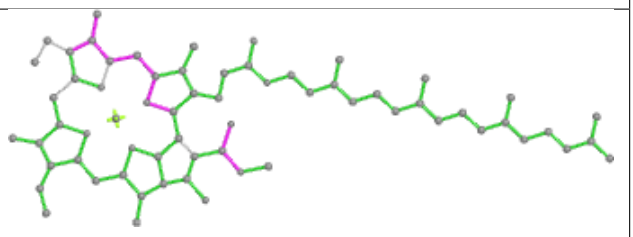
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

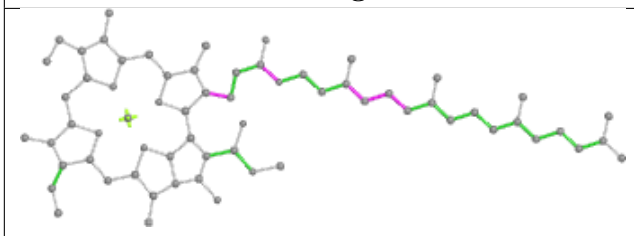
**Ligand CLA A 820**



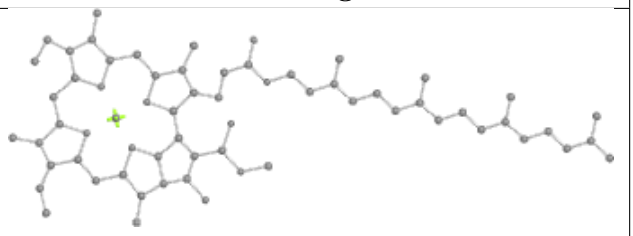
**Bond lengths**



**Bond angles**

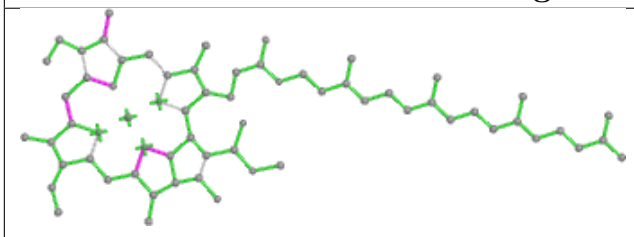


**Torsions**

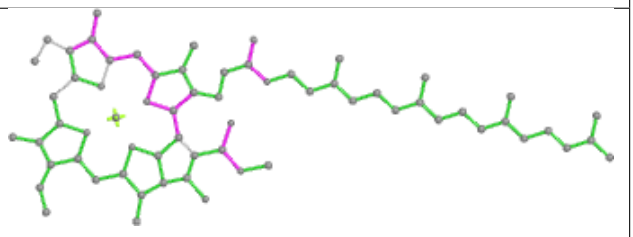


**Rings**

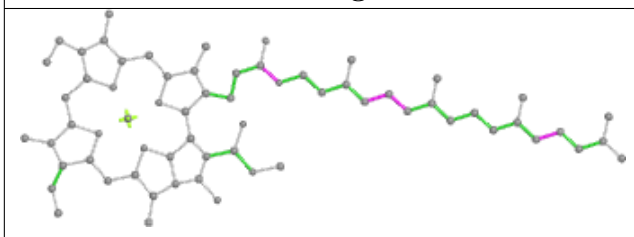
**Ligand CLA l 307**



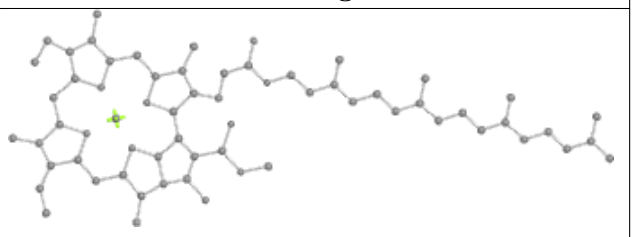
**Bond lengths**



**Bond angles**

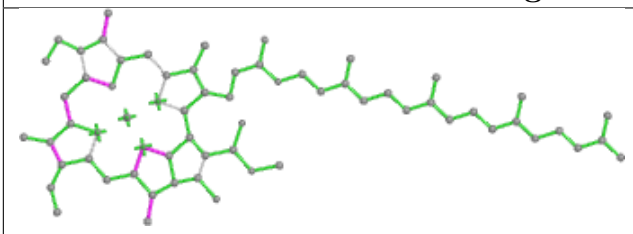


**Torsions**

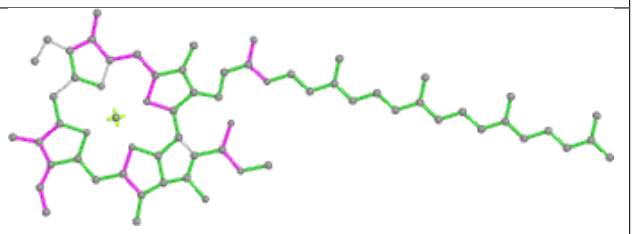


**Rings**

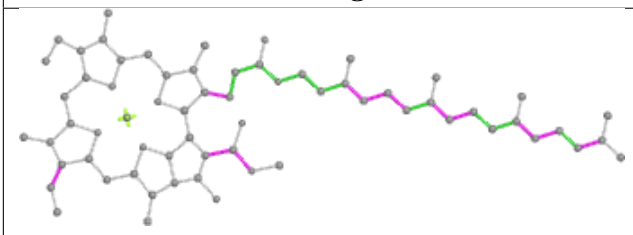
## Ligand CLA B 819



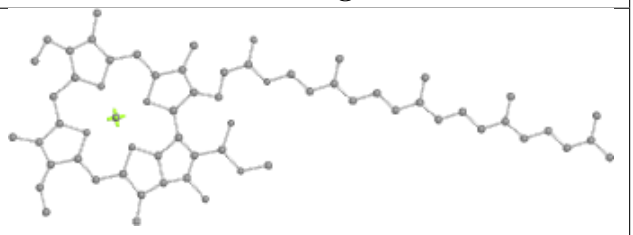
Bond lengths



Bond angles

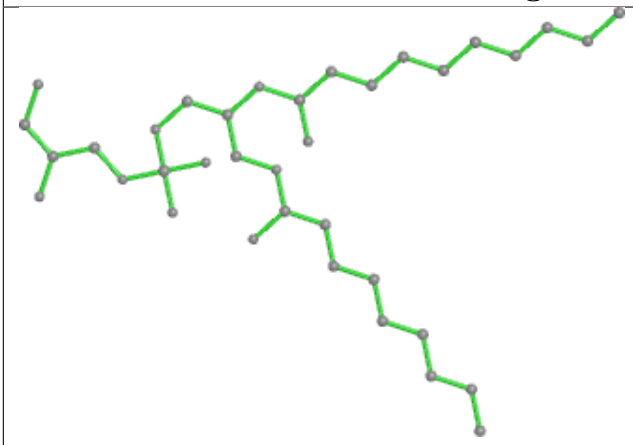


Torsions

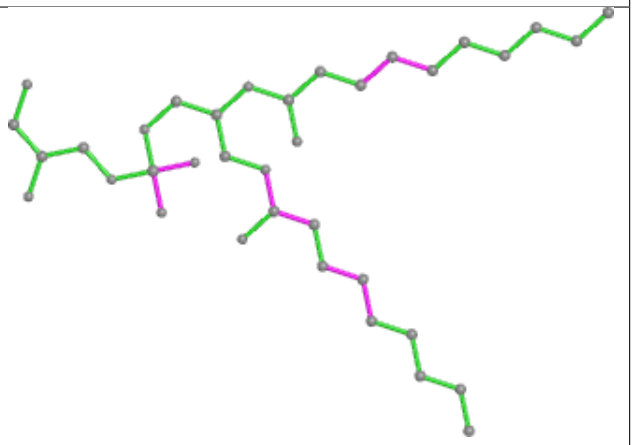


Rings

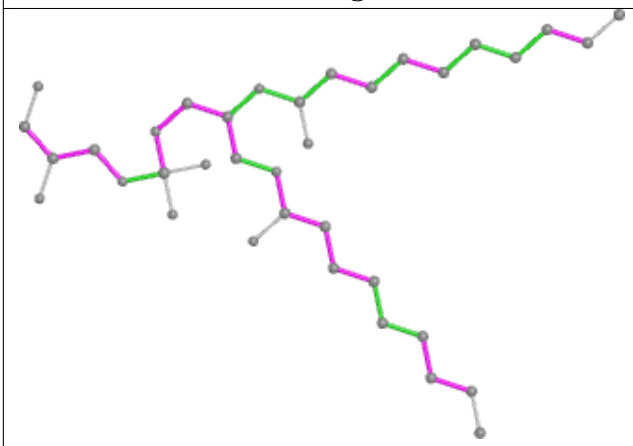
## Ligand LHG L 209



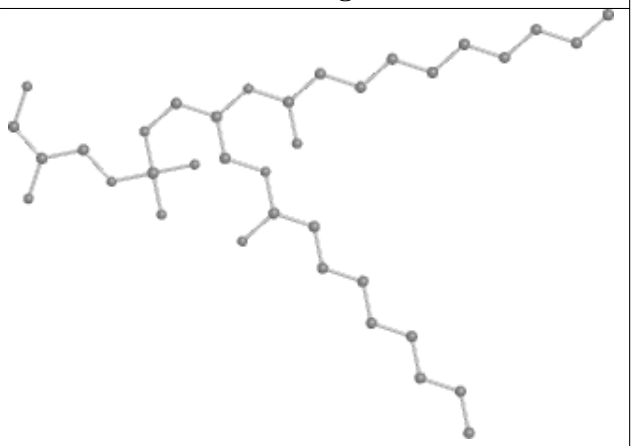
Bond lengths



Bond angles

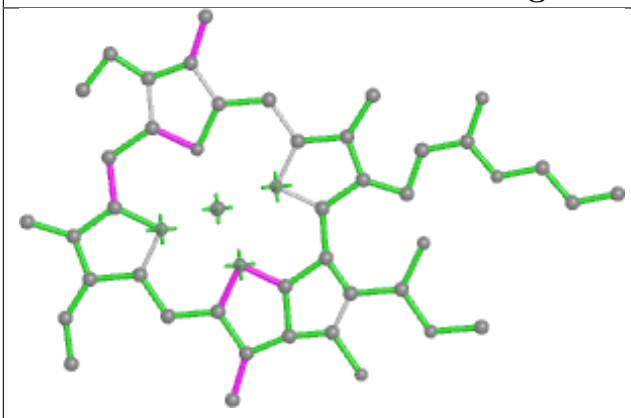


Torsions

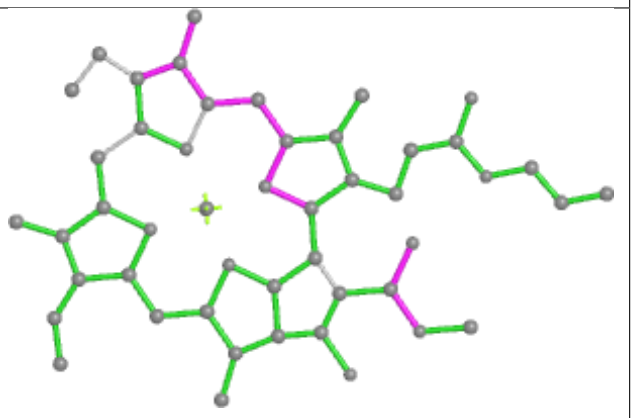


Rings

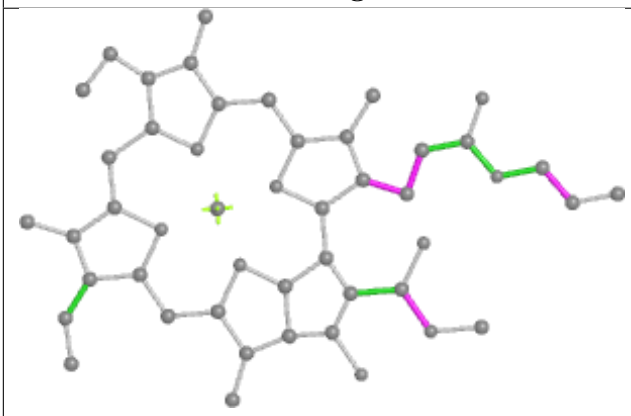
## Ligand CLA a 312



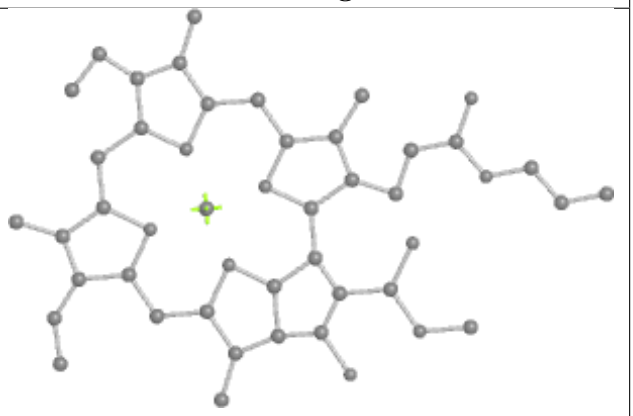
Bond lengths



Bond angles

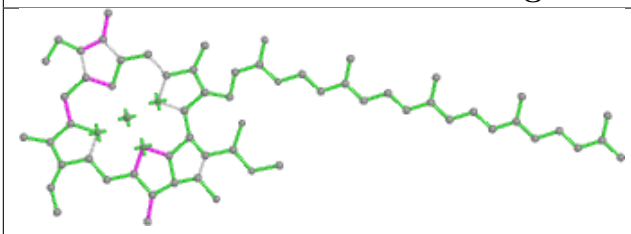


Torsions

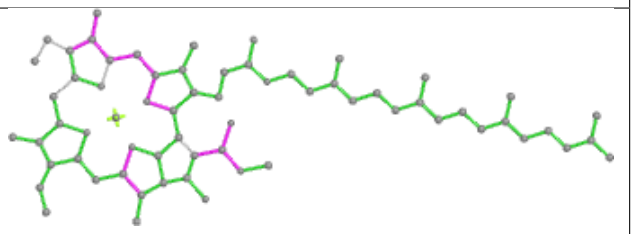


Rings

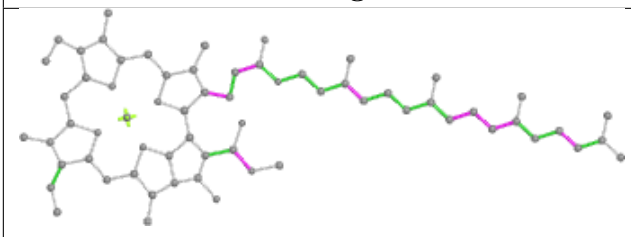
## Ligand CLA B 820



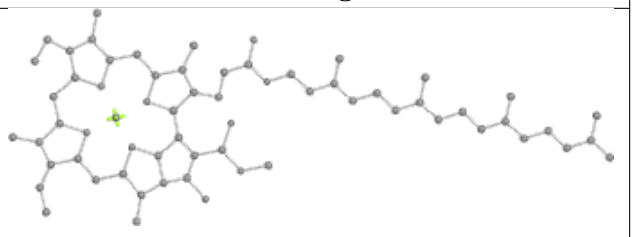
Bond lengths



Bond angles

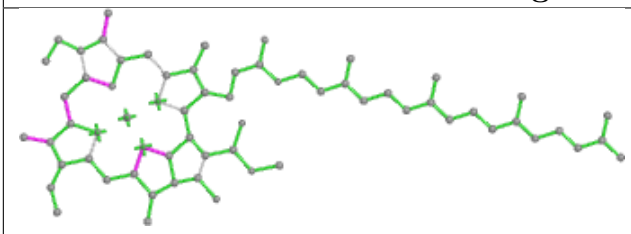


Torsions

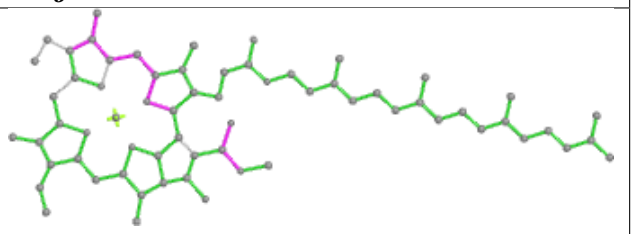


Rings

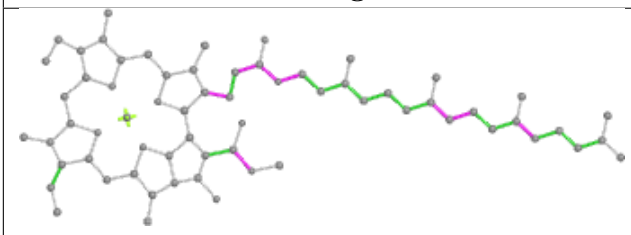
## Ligand CLA j 310



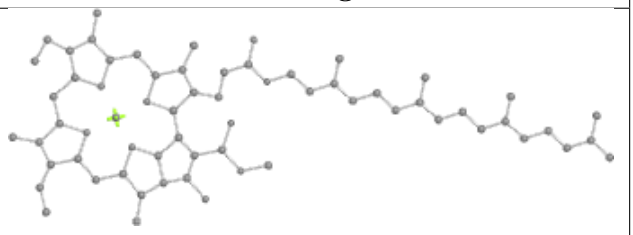
Bond lengths



Bond angles

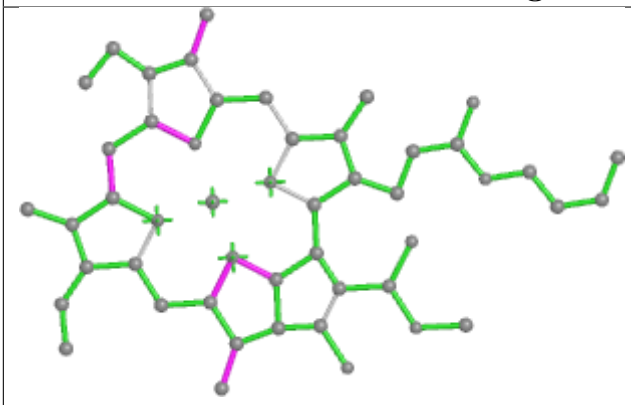


Torsions

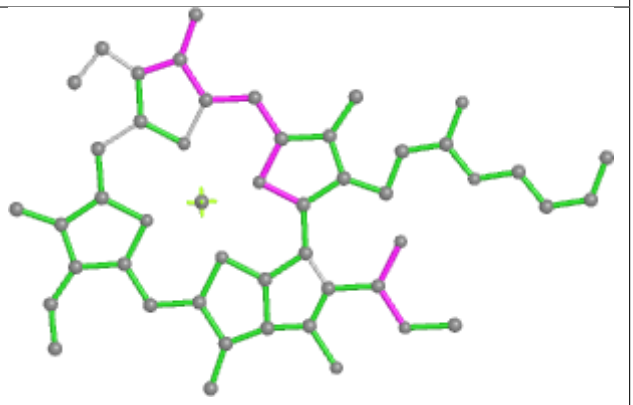


Rings

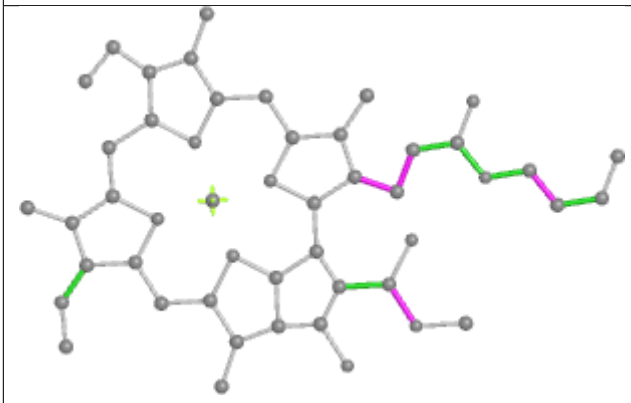
## Ligand CLA L 202



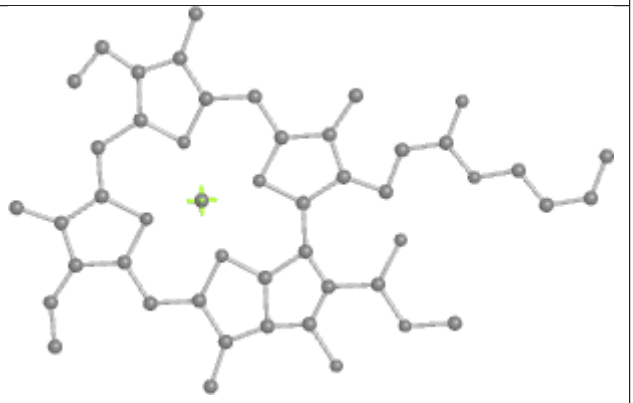
Bond lengths



Bond angles

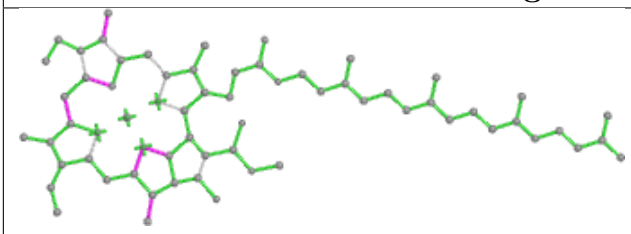


Torsions

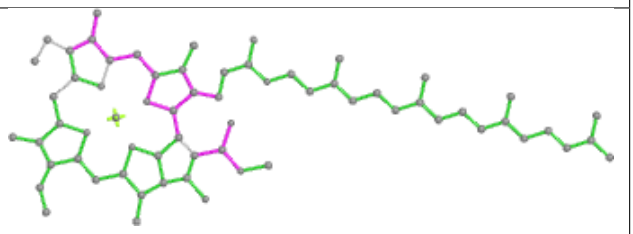


Rings

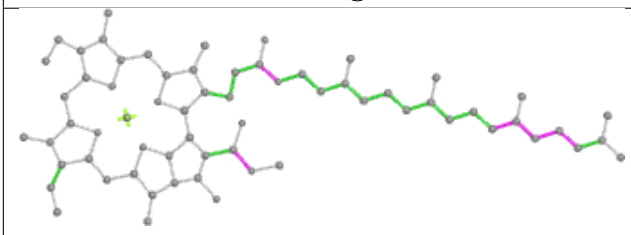
## Ligand CLA A 824



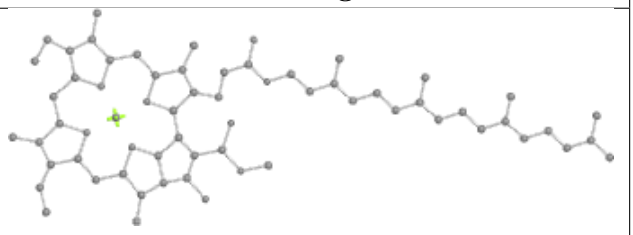
Bond lengths



Bond angles

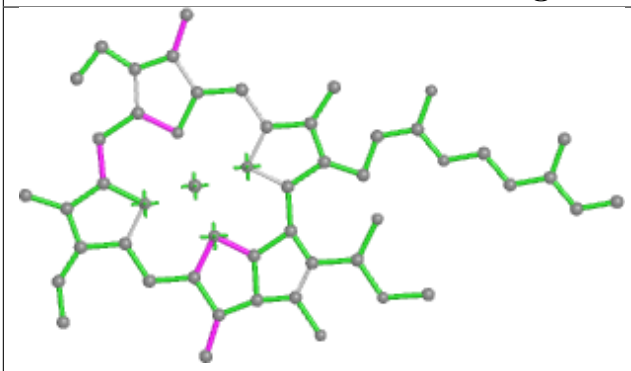


Torsions

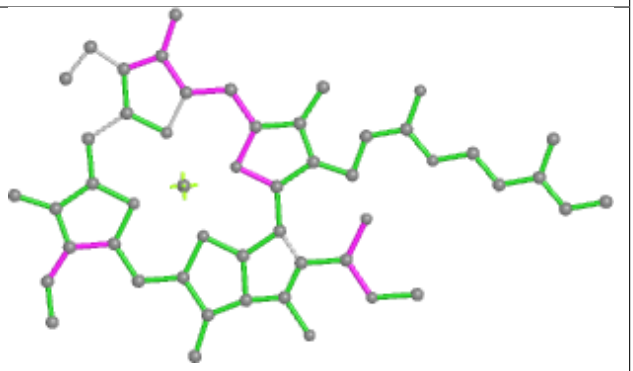


Rings

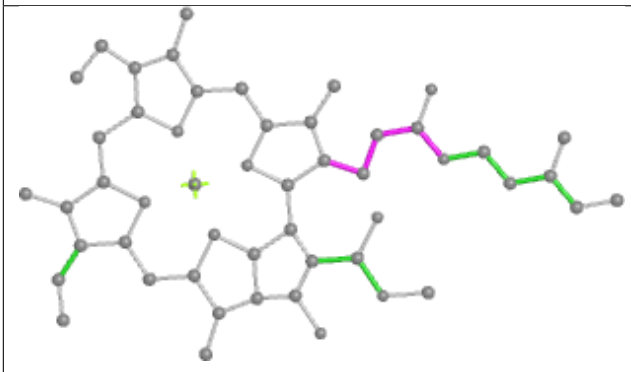
## Ligand CLA i 306



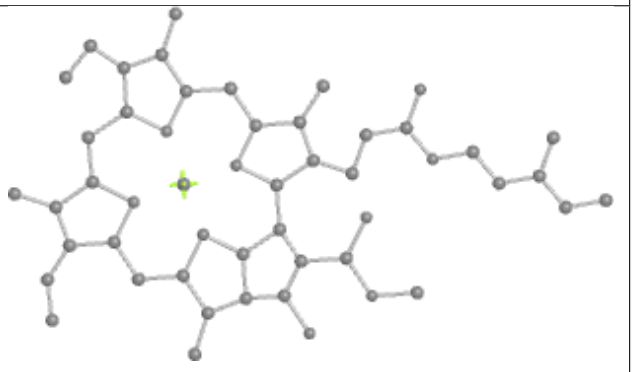
Bond lengths



Bond angles

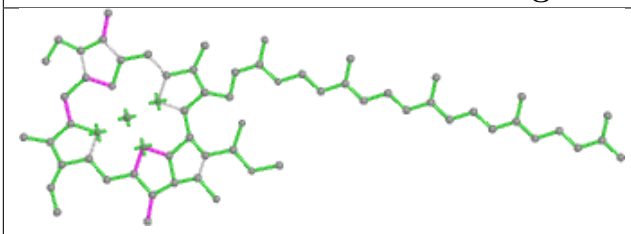


Torsions

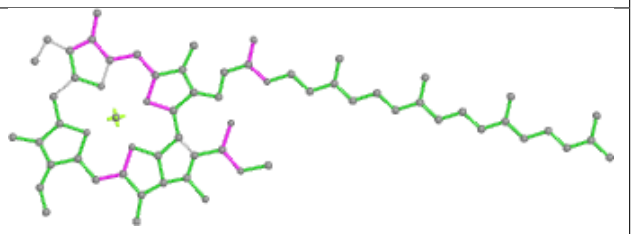


Rings

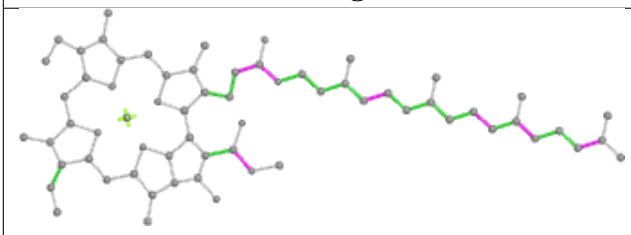
## Ligand CLA l 301



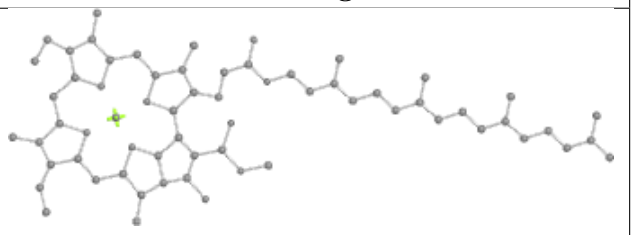
Bond lengths



Bond angles

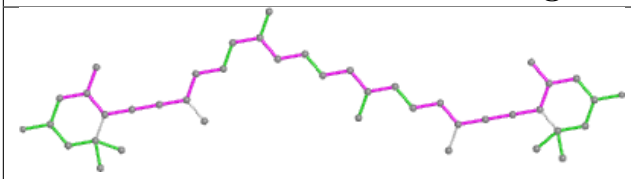


Torsions

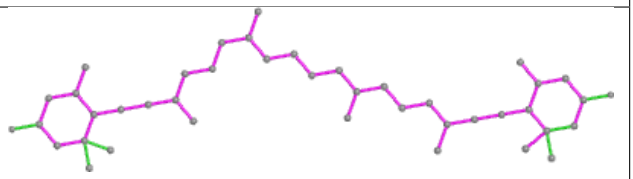


Rings

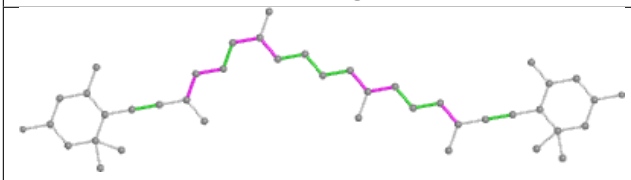
## Ligand II0 e 314



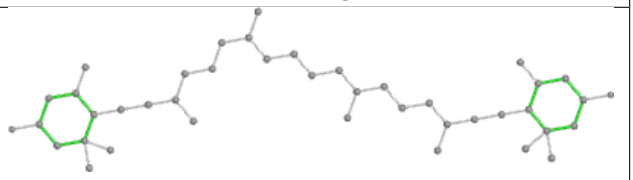
Bond lengths



Bond angles

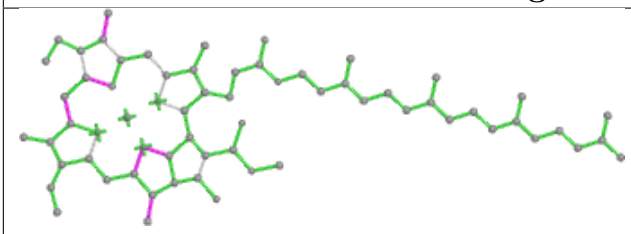


Torsions

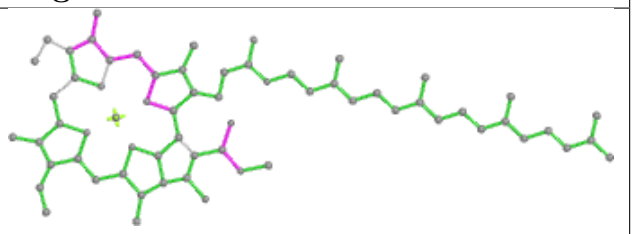


Rings

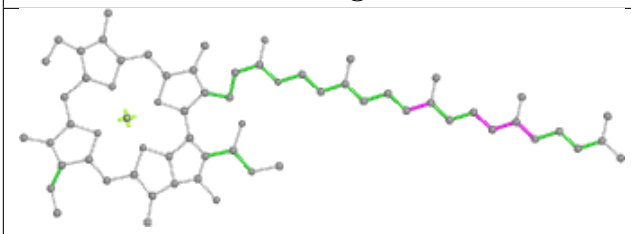
## Ligand CLA g 305



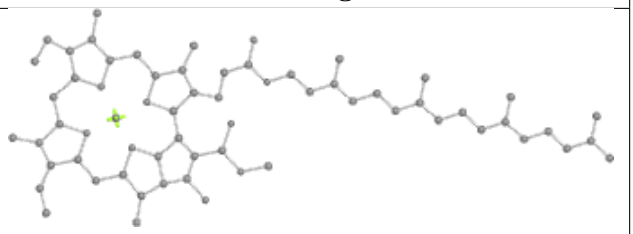
Bond lengths



Bond angles

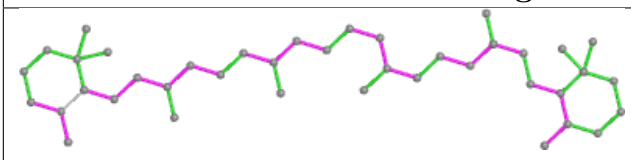


Torsions

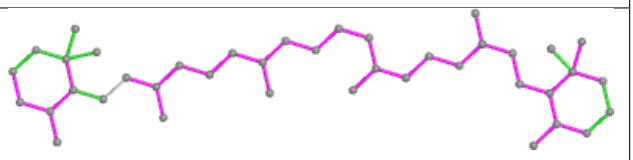


Rings

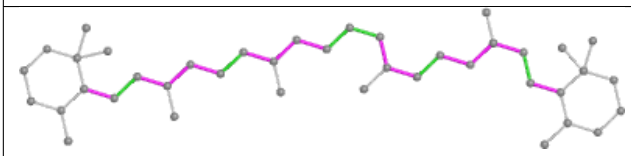
## Ligand WVN R 201



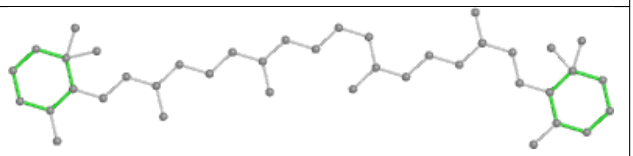
Bond lengths



Bond angles

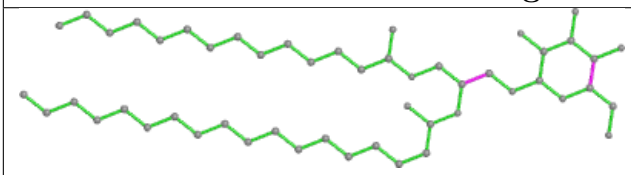


Torsions

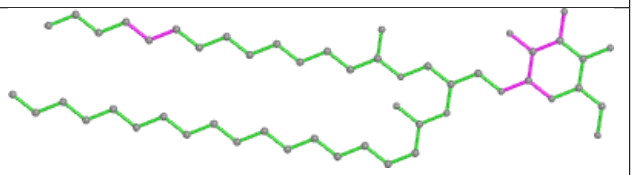


Rings

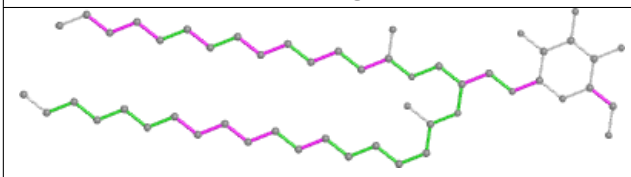
## Ligand LMG n 620



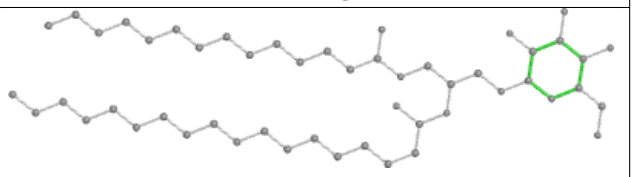
Bond lengths



Bond angles

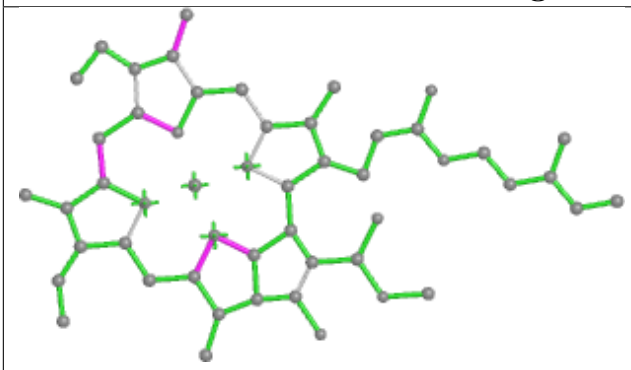


Torsions

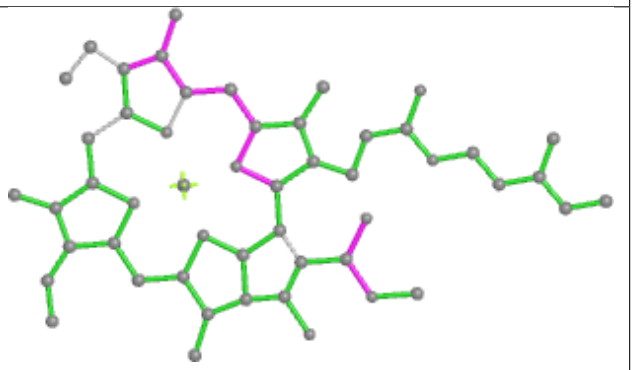


Rings

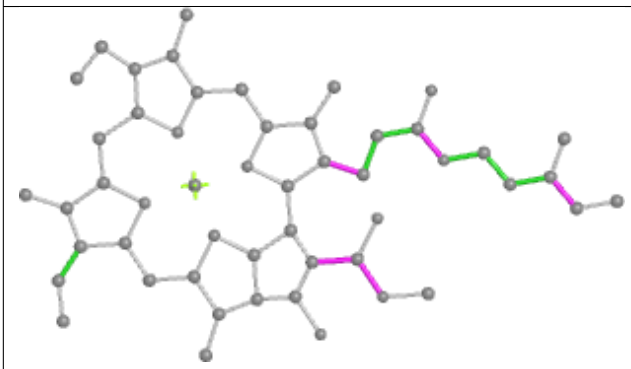
## Ligand CLA c 301



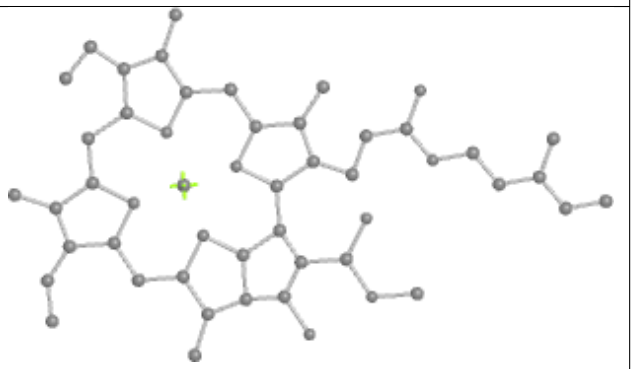
Bond lengths



Bond angles

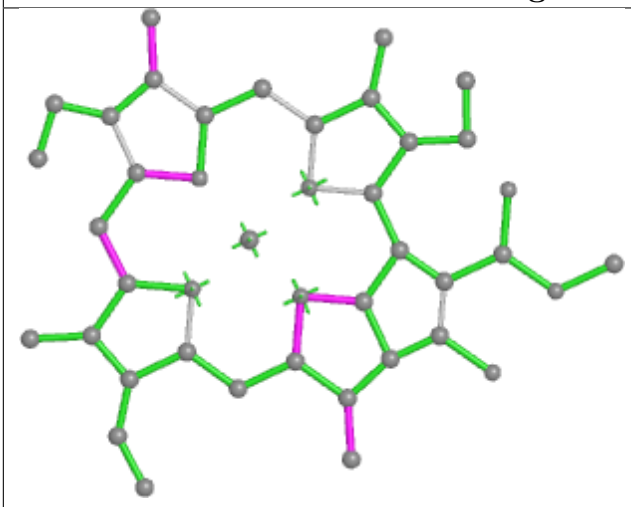


Torsions

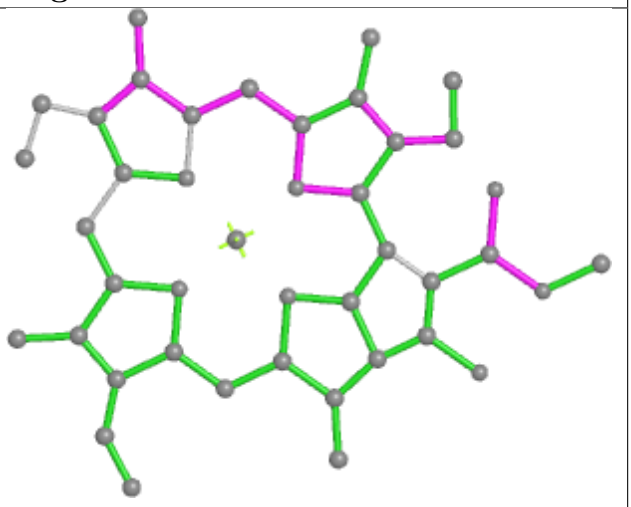


Rings

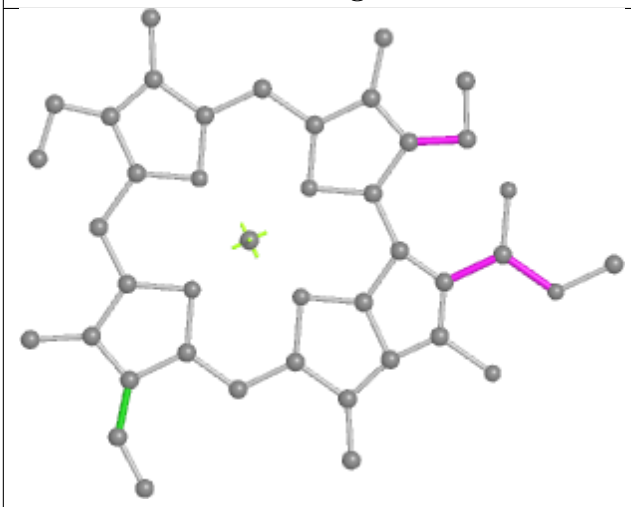
**Ligand CLA g 303**



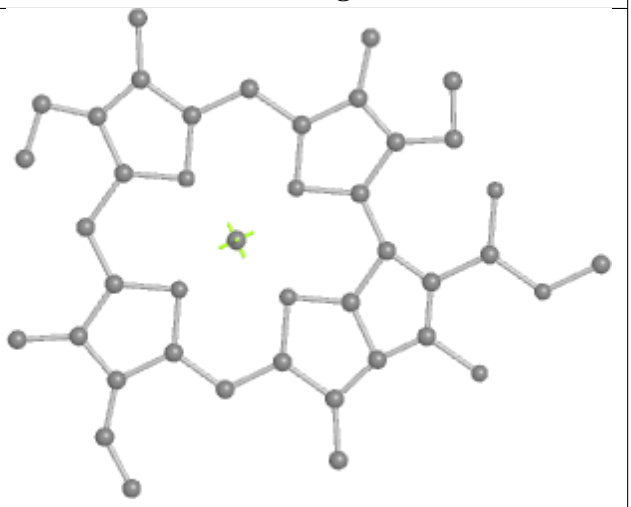
**Bond lengths**



**Bond angles**

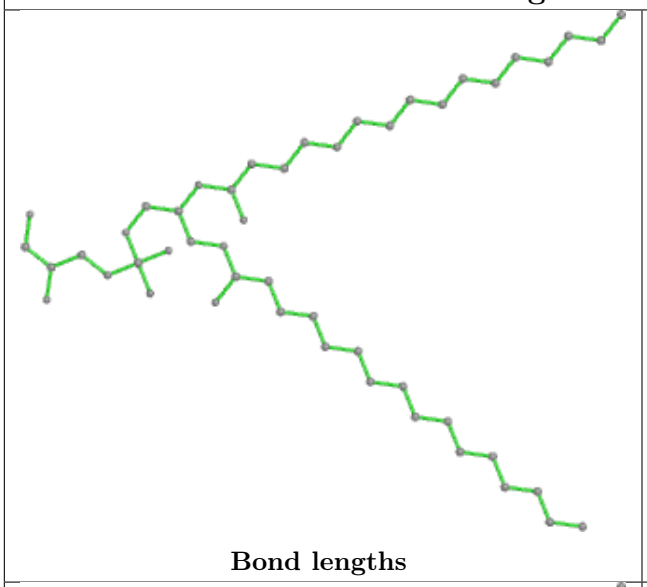


**Torsions**

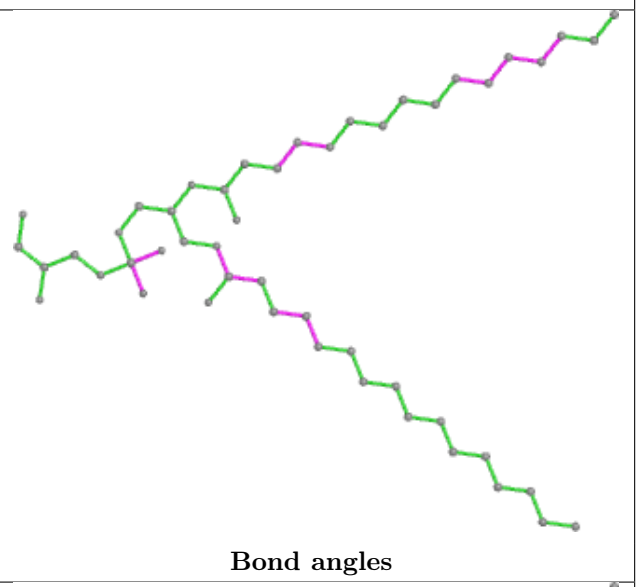


**Rings**

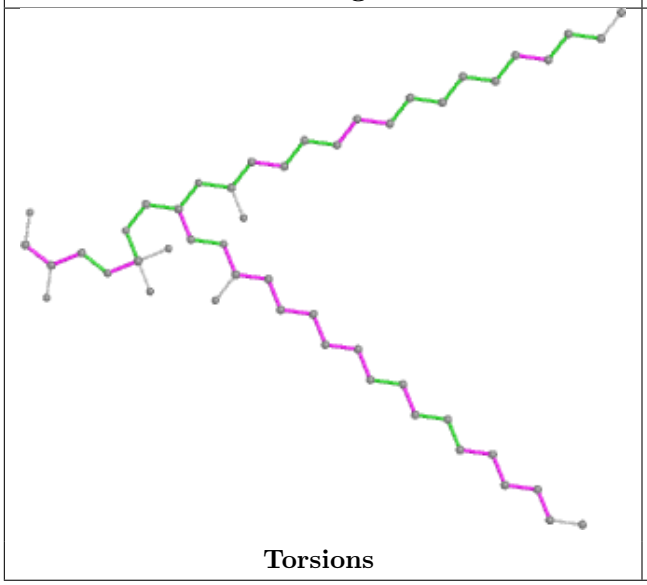
## Ligand LHG a 318



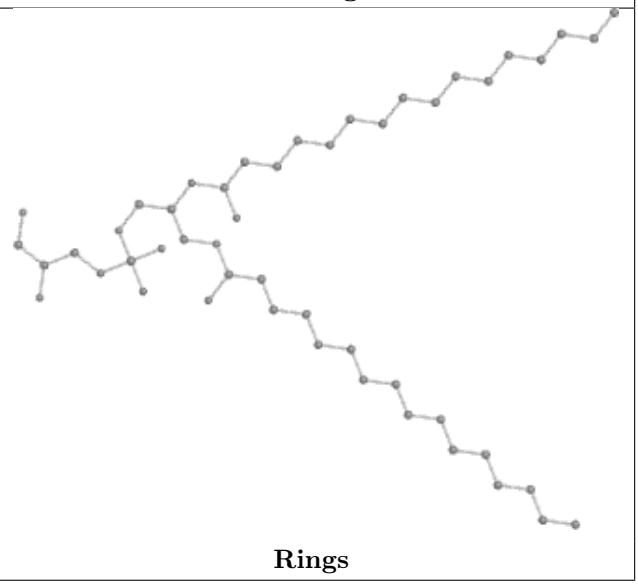
Bond lengths



Bond angles

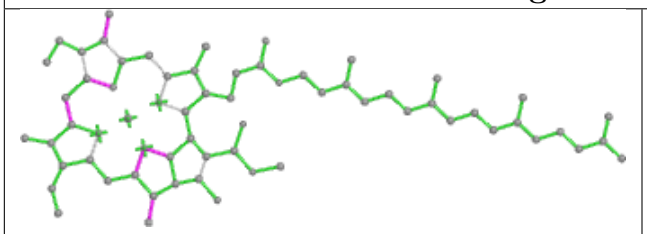


Torsions

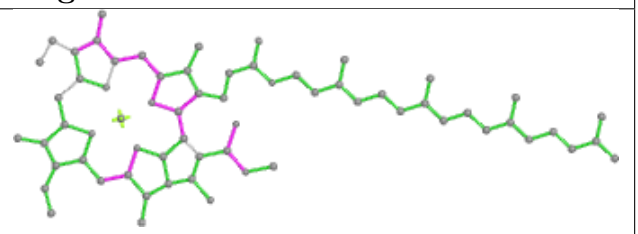


Rings

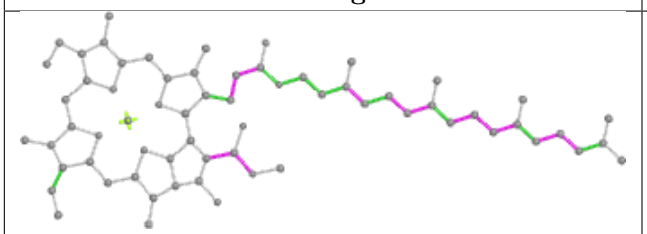
## Ligand CLA g 302



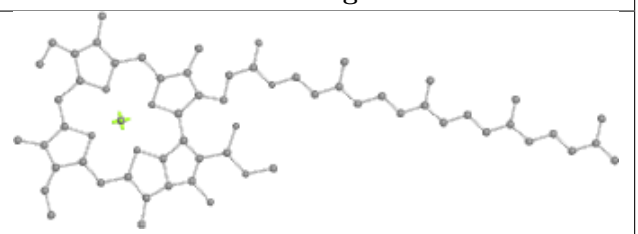
Bond lengths



Bond angles

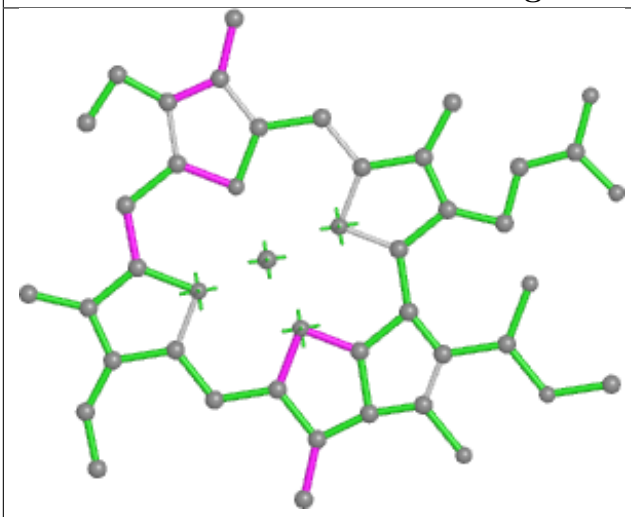


Torsions

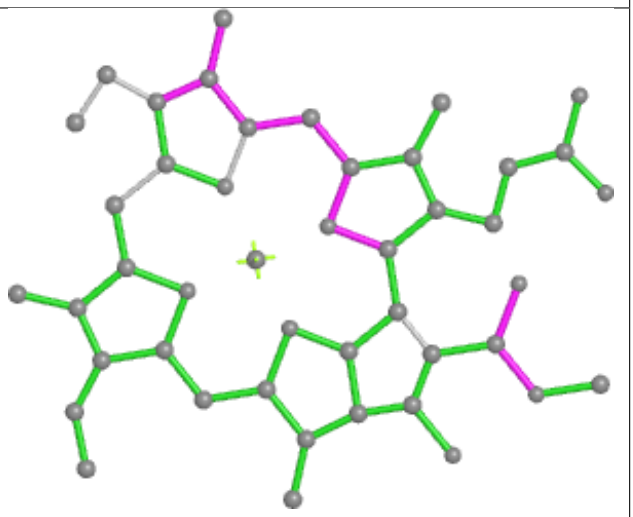


Rings

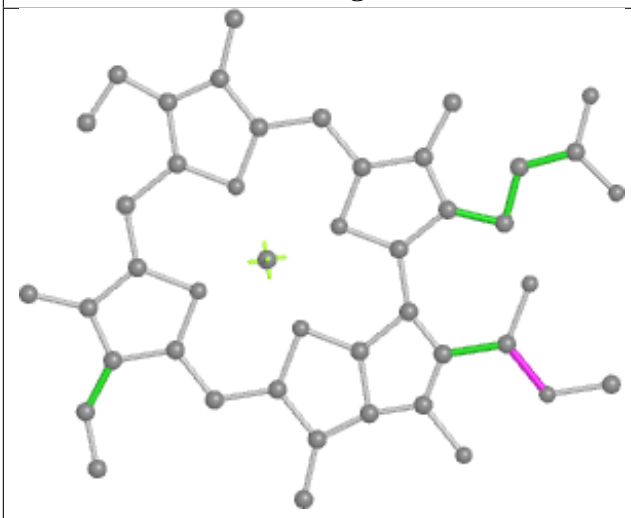
## Ligand CLA B 832



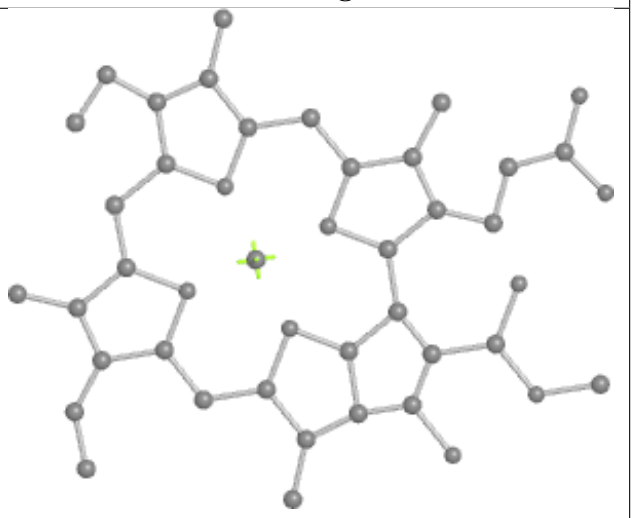
Bond lengths



Bond angles

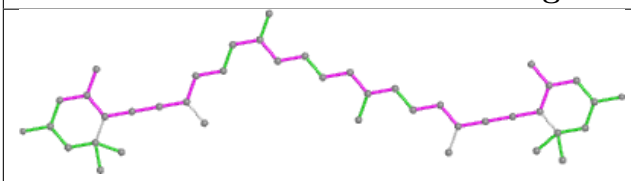


Torsions

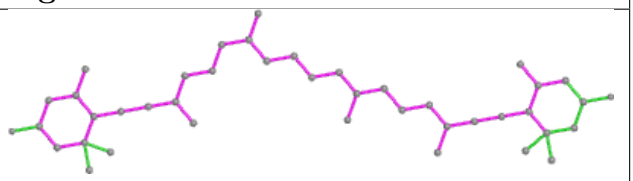


Rings

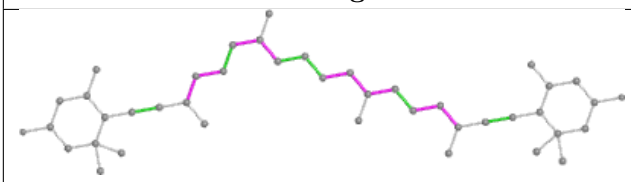
## Ligand II0 g 319



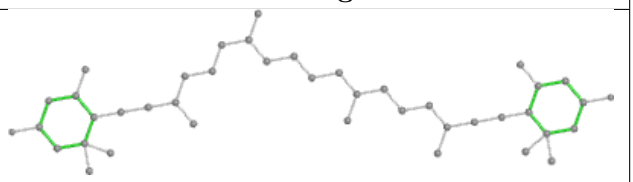
Bond lengths



Bond angles

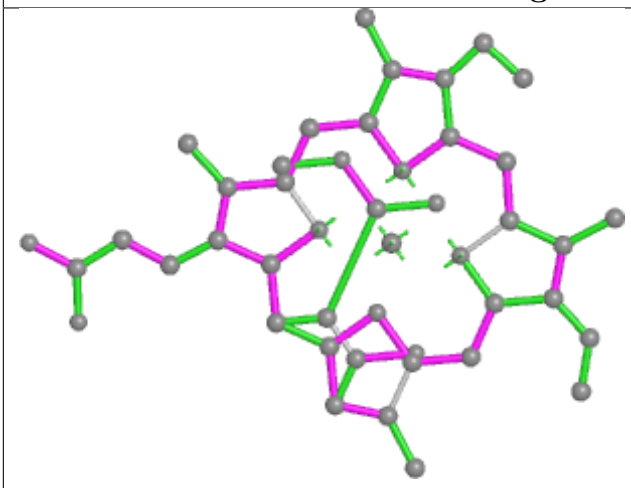


Torsions

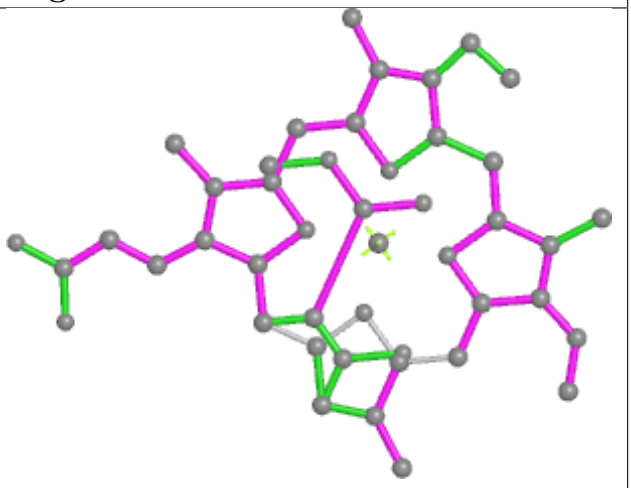


Rings

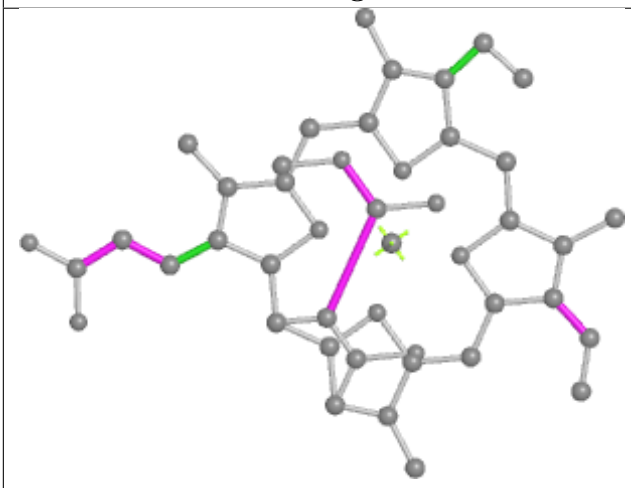
## Ligand KC2 g 313



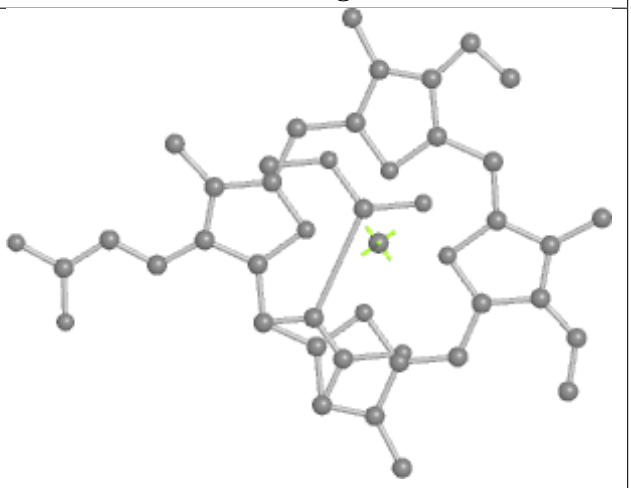
Bond lengths



Bond angles

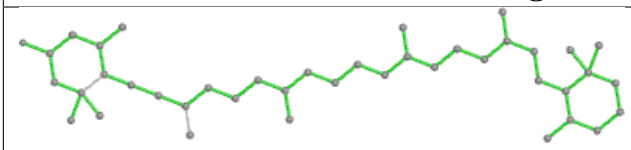


Torsions

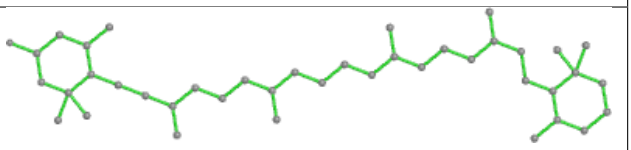


Rings

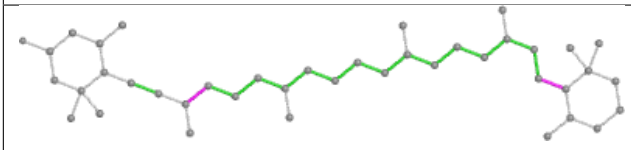
## Ligand IHT O 204



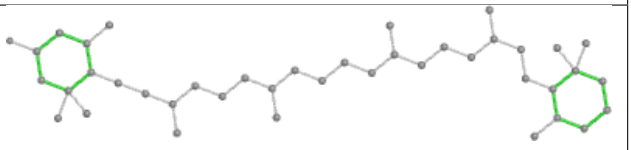
Bond lengths



Bond angles

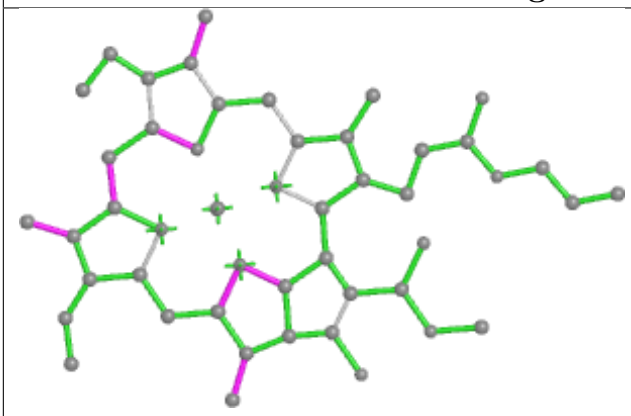


Torsions

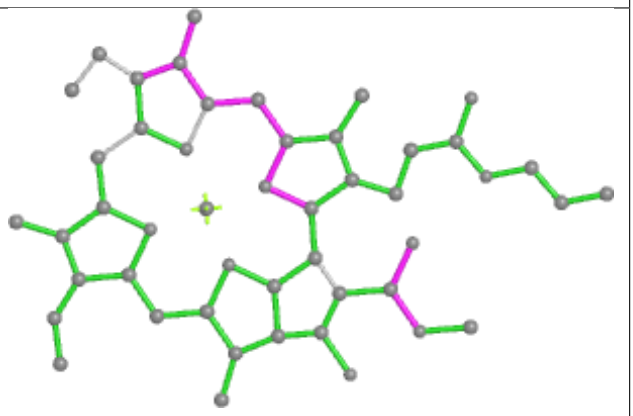


Rings

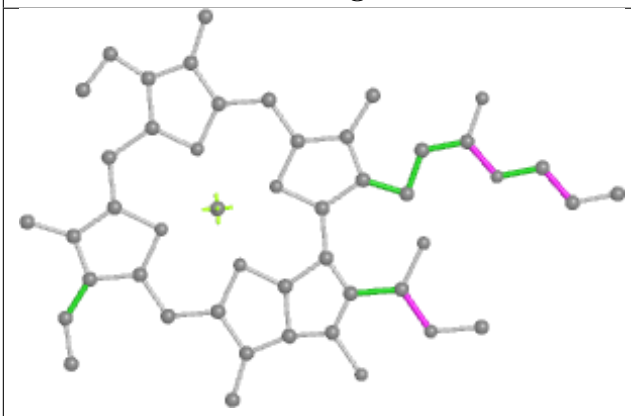
**Ligand CLA a 309**



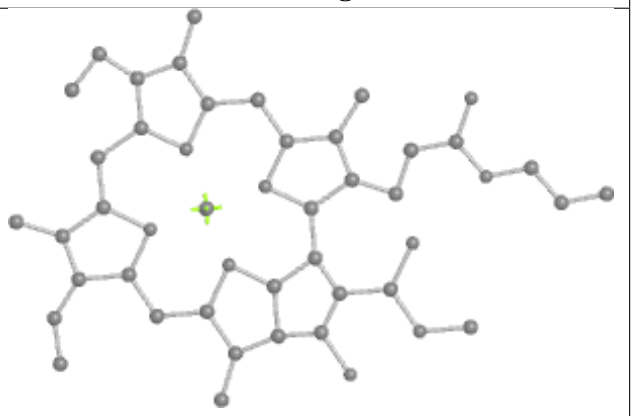
**Bond lengths**



**Bond angles**

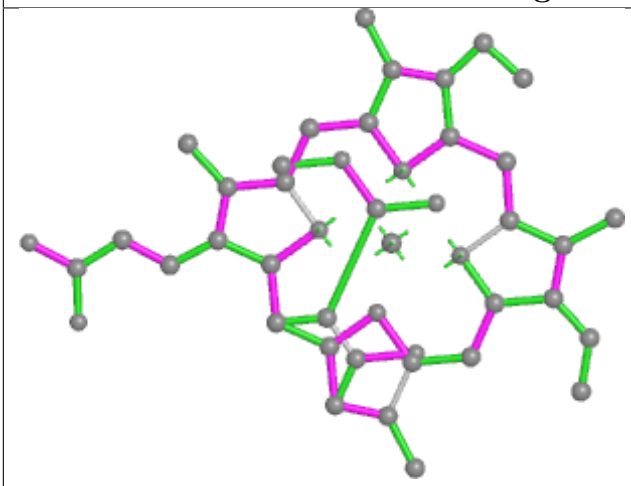


**Torsions**

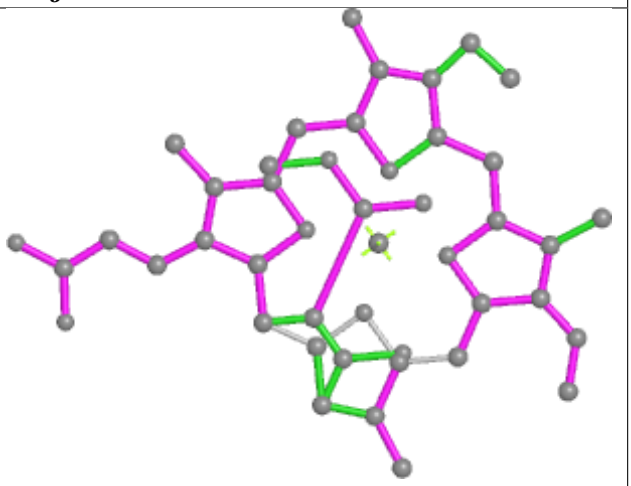


**Rings**

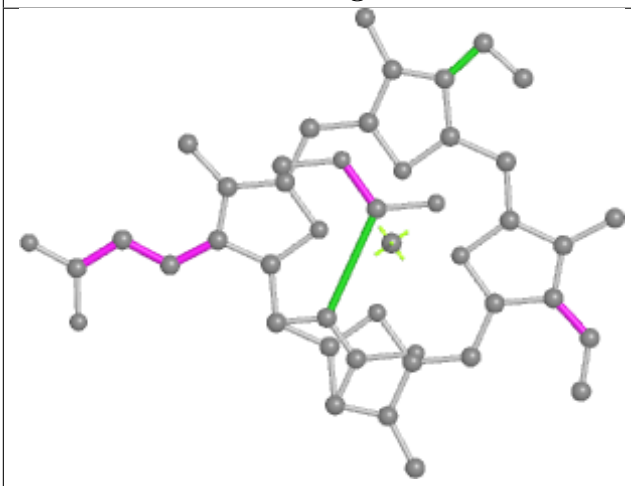
**Ligand KC2 j 312**



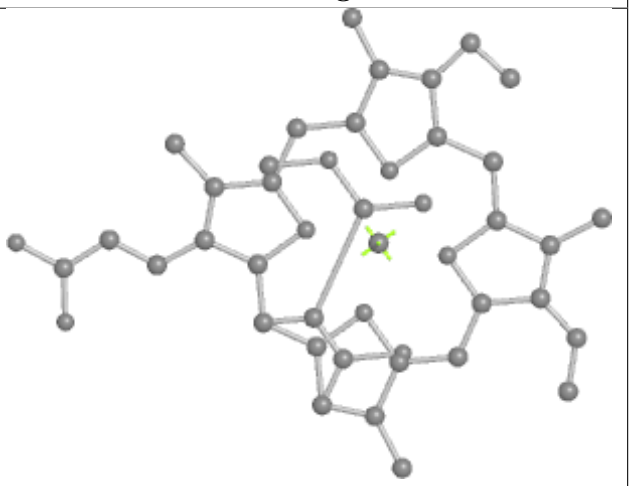
**Bond lengths**



**Bond angles**

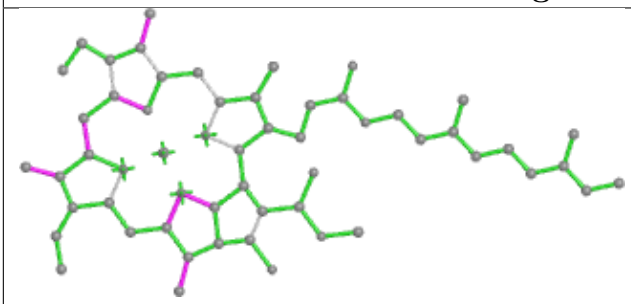


**Torsions**

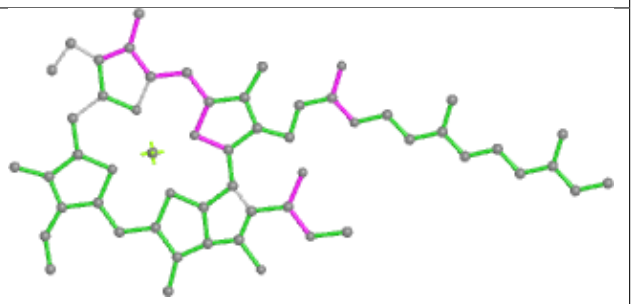


**Rings**

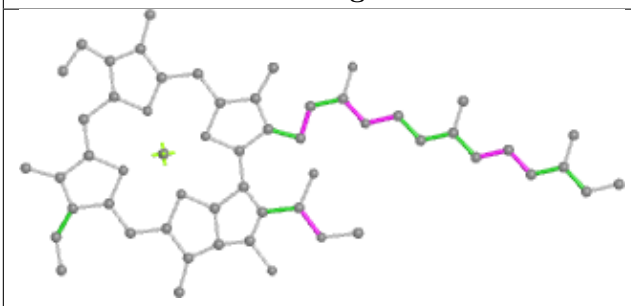
## Ligand CLA l 312



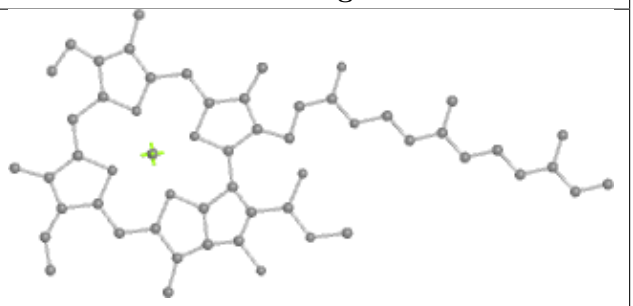
Bond lengths



Bond angles

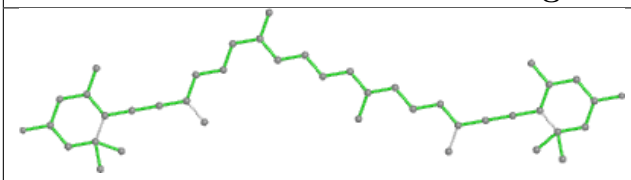


Torsions

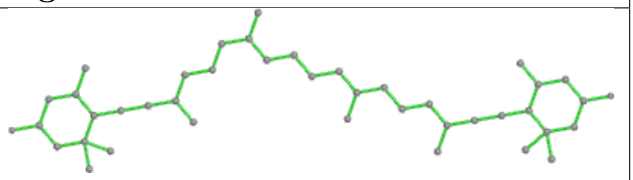


Rings

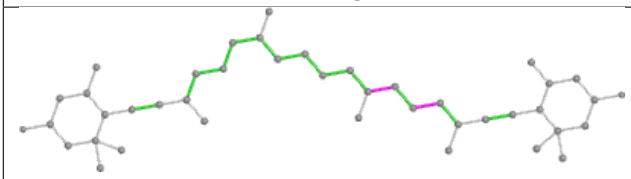
## Ligand II0 g 321



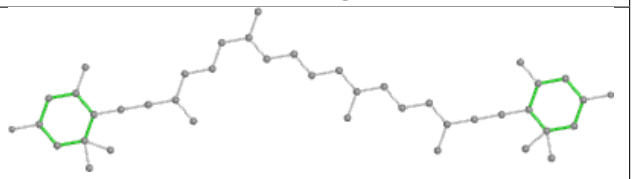
Bond lengths



Bond angles

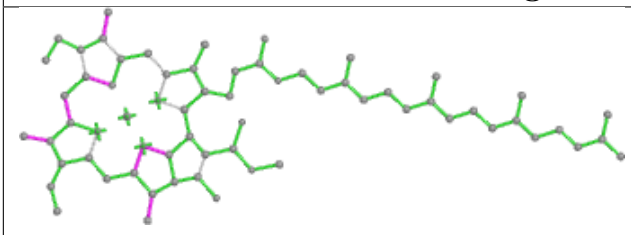


Torsions

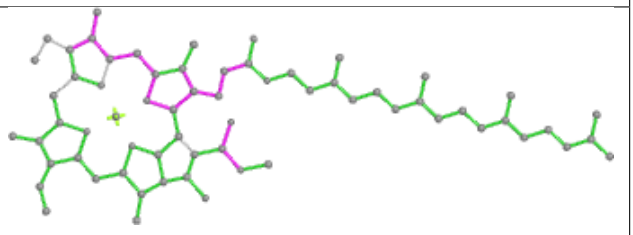


Rings

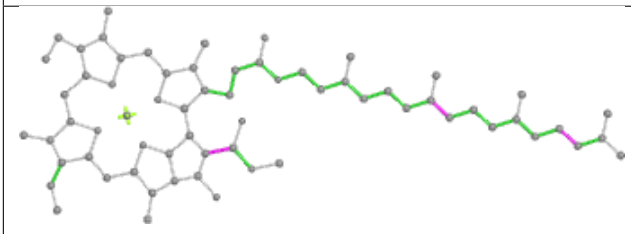
## Ligand CLA A 804



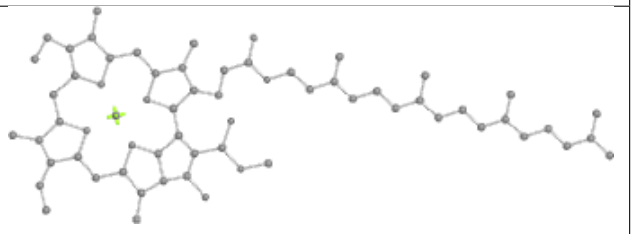
Bond lengths



Bond angles

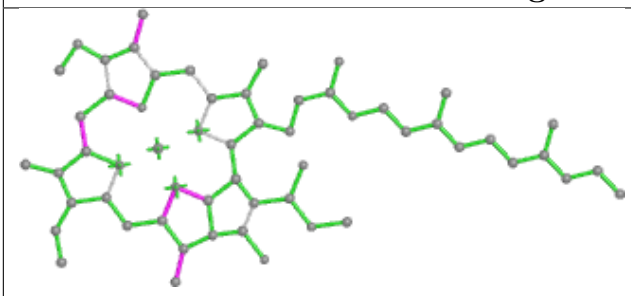


Torsions

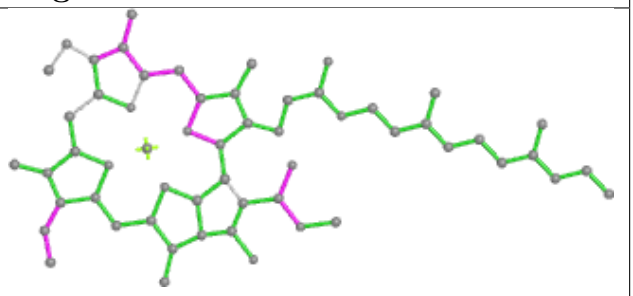


Rings

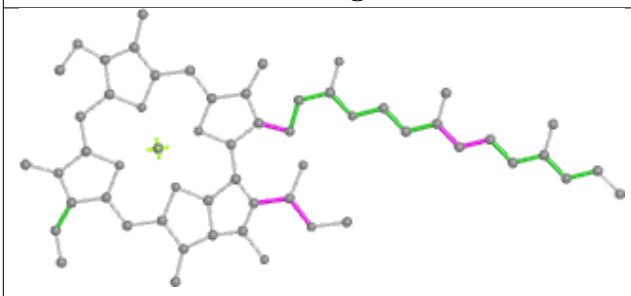
## Ligand CLA g 316



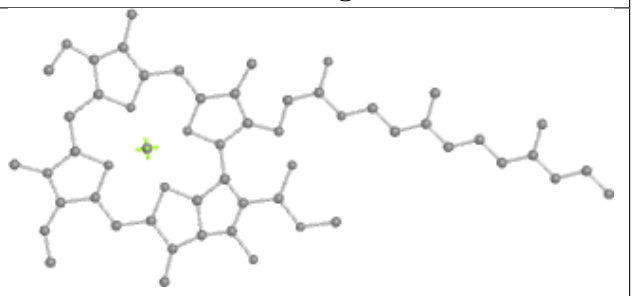
Bond lengths



Bond angles

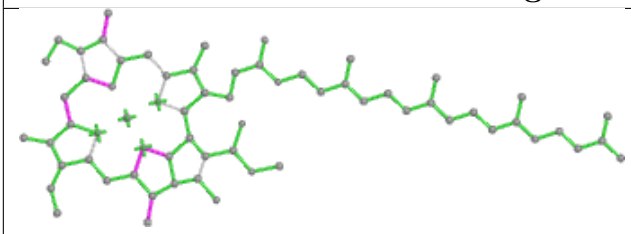


Torsions

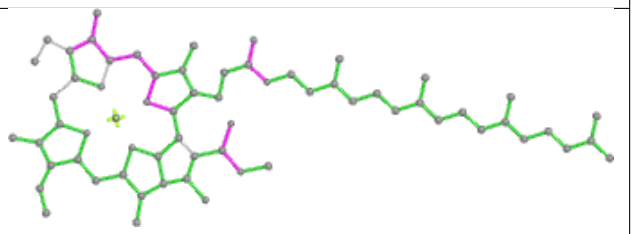


Rings

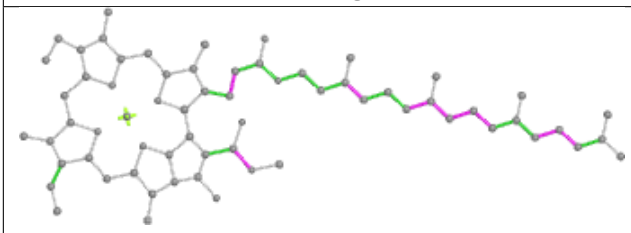
## Ligand CLA B 836



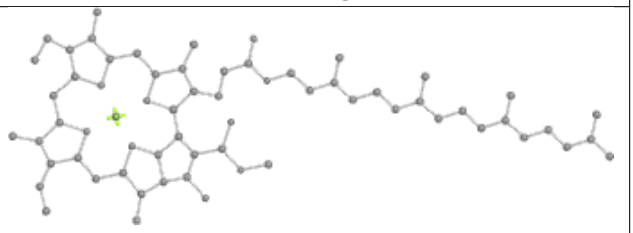
Bond lengths



Bond angles

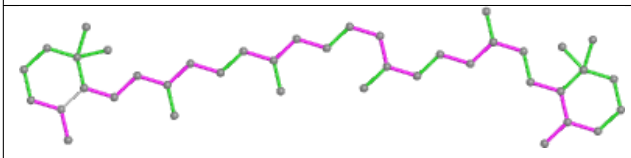


Torsions

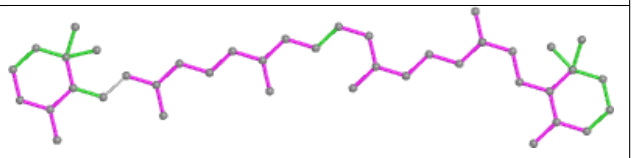


Rings

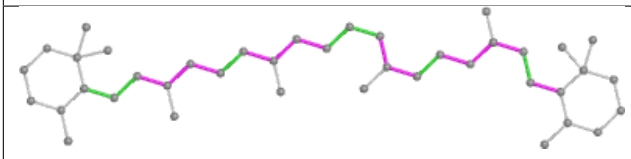
## Ligand WVN L 206



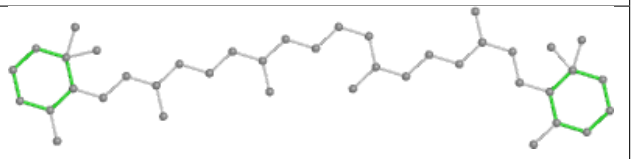
Bond lengths



Bond angles

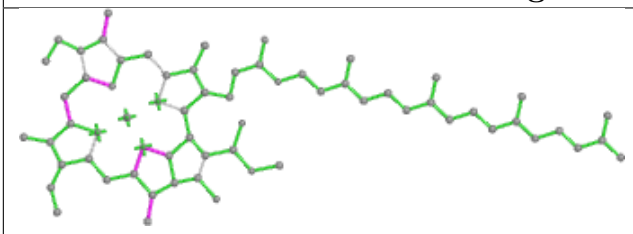


Torsions

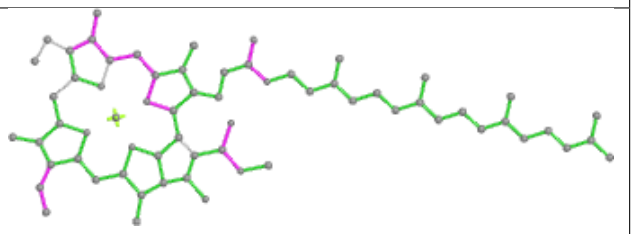


Rings

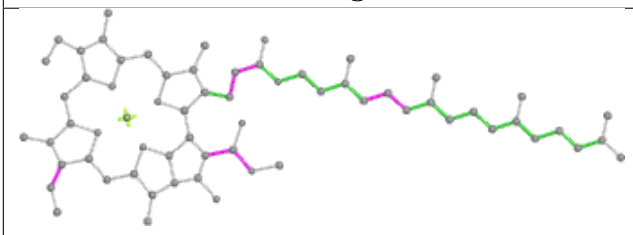
## Ligand CLA k 604



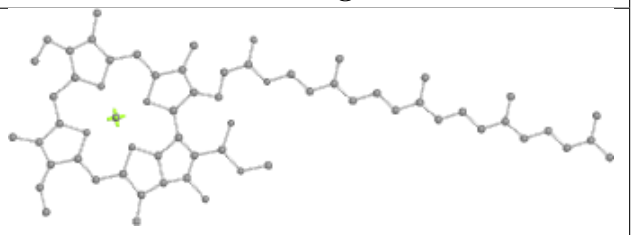
Bond lengths



Bond angles

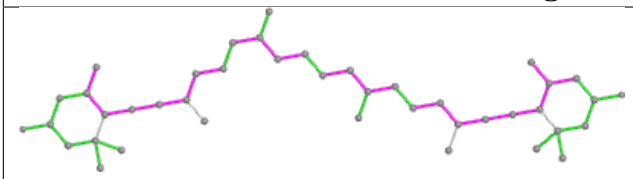


Torsions

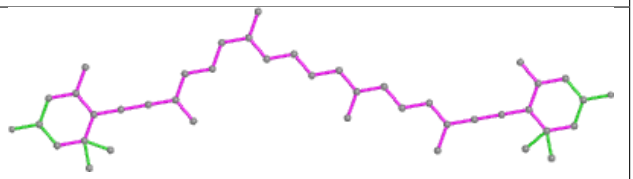


Rings

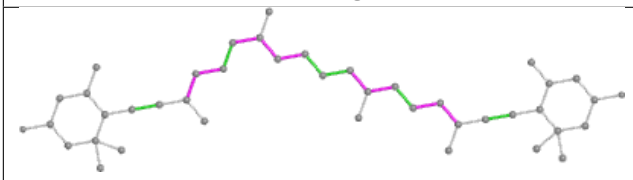
## Ligand II0 k 620



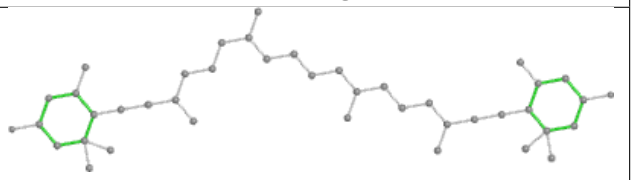
Bond lengths



Bond angles

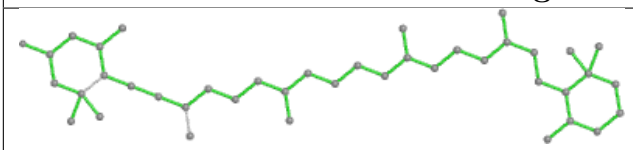


Torsions

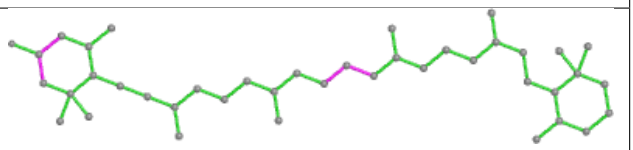


Rings

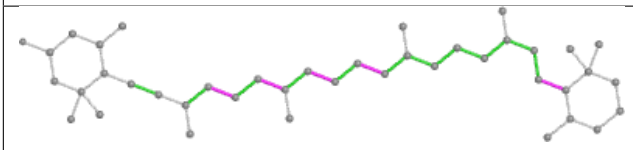
## Ligand IHT c 315



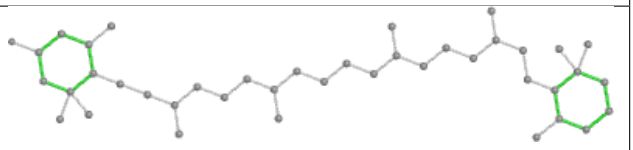
Bond lengths



Bond angles

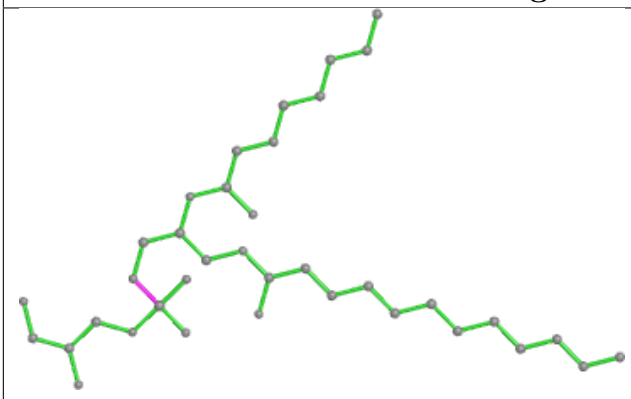


Torsions

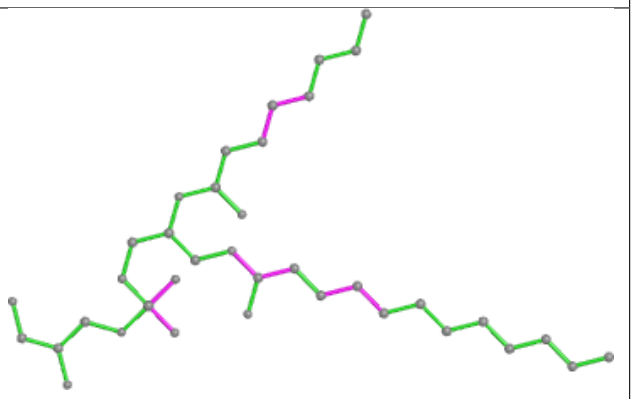


Rings

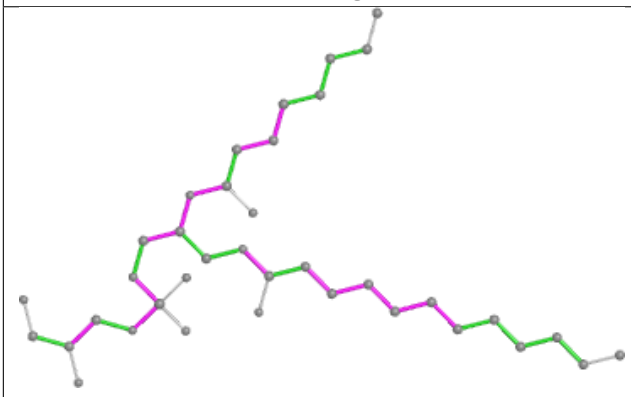
## Ligand LHG f 620



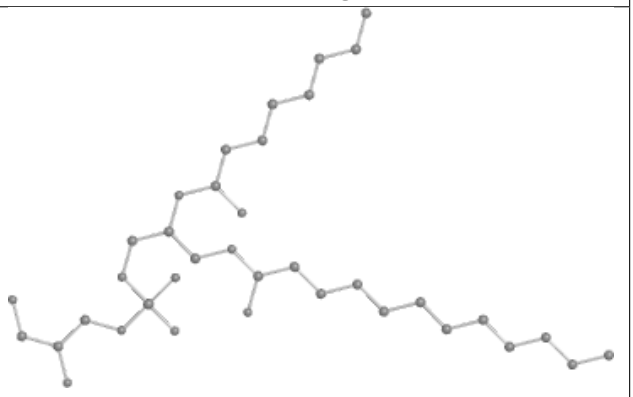
Bond lengths



Bond angles

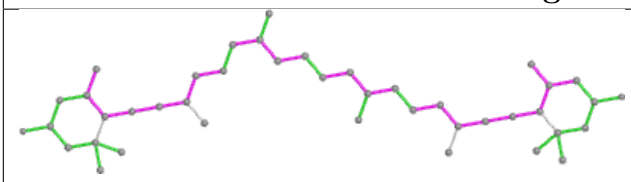


Torsions

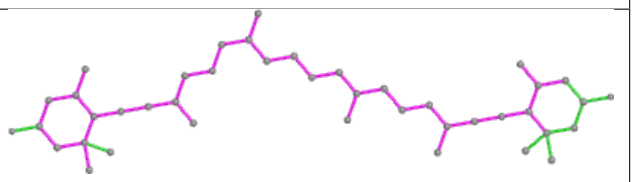


Rings

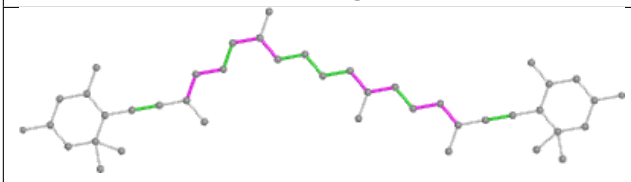
## Ligand II0 a 313



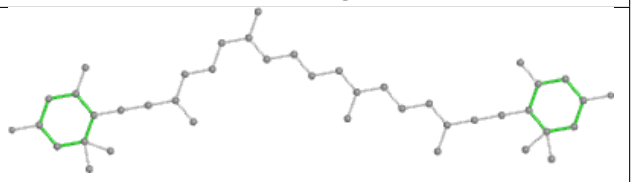
Bond lengths



Bond angles

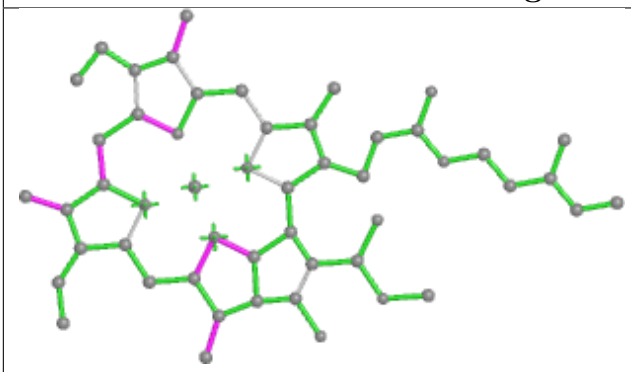


Torsions

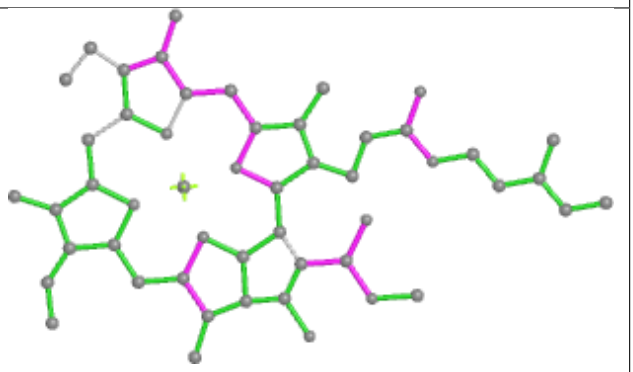


Rings

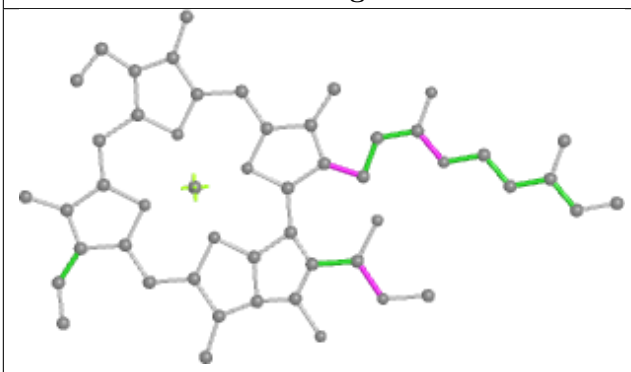
## Ligand CLA B 827



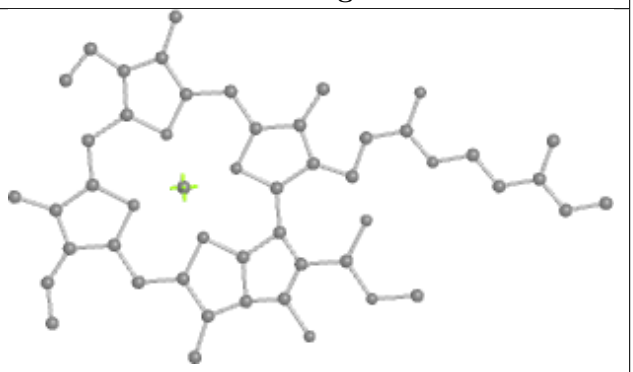
Bond lengths



Bond angles

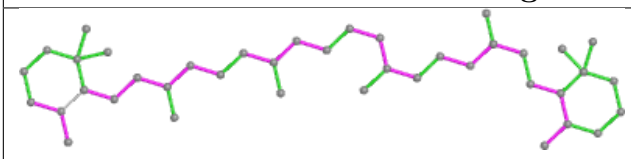


Torsions

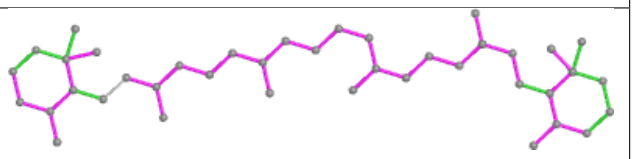


Rings

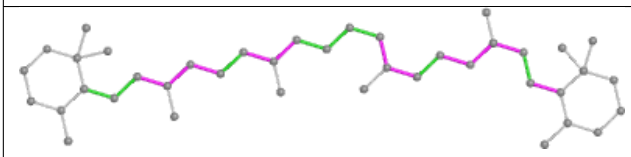
## Ligand WVN e 315



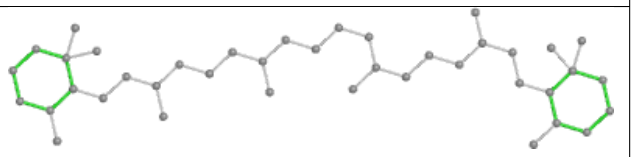
Bond lengths



Bond angles

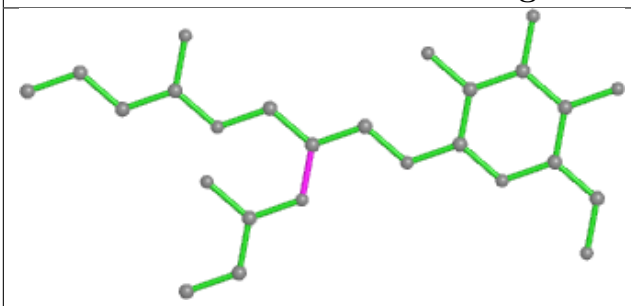


Torsions

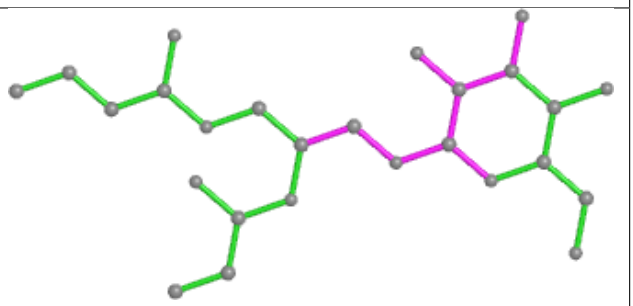


Rings

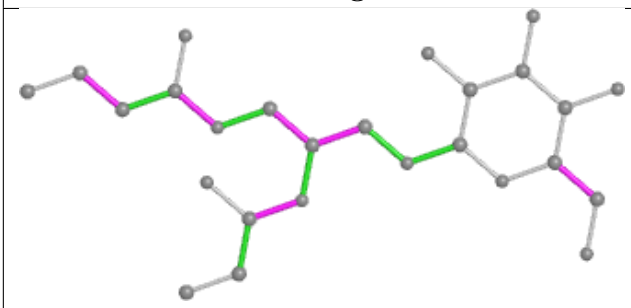
## Ligand LMG O 205



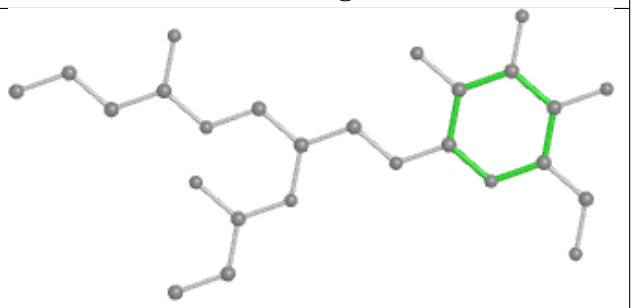
Bond lengths



Bond angles

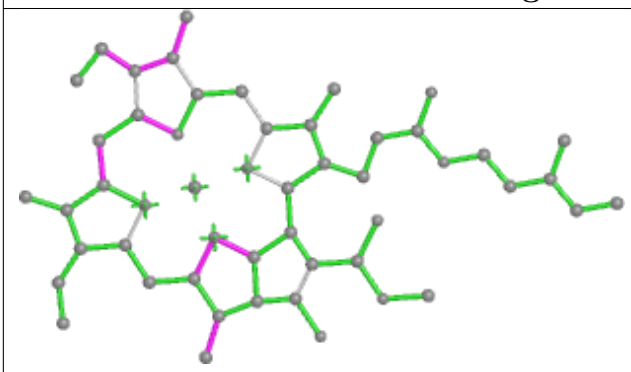


Torsions

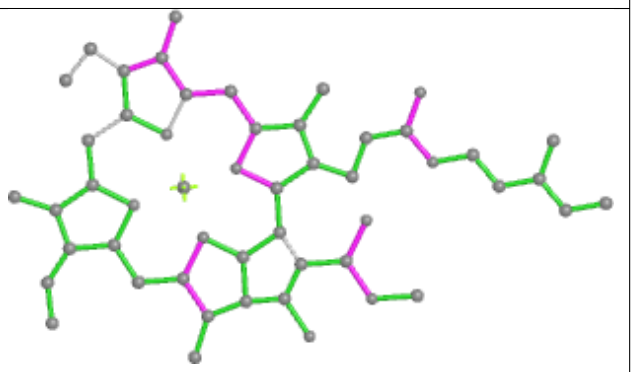


Rings

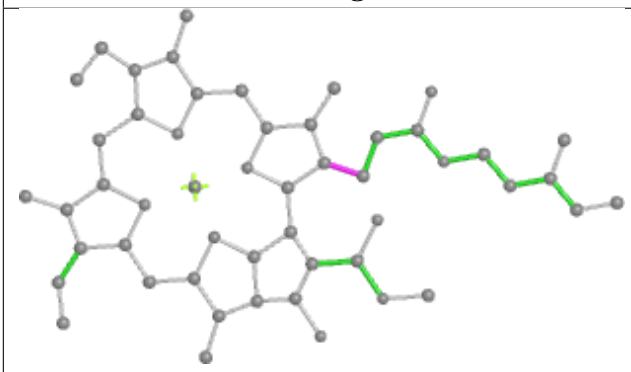
## Ligand CLA m 607



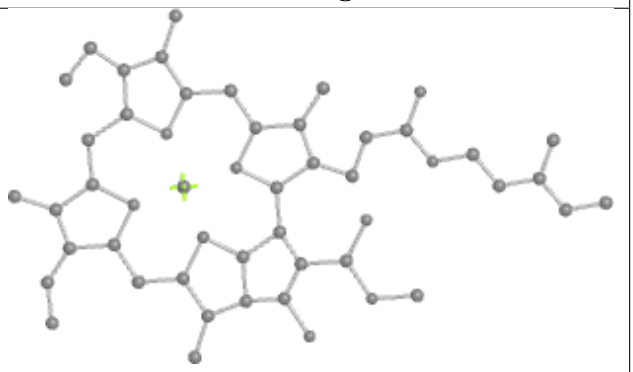
Bond lengths



Bond angles

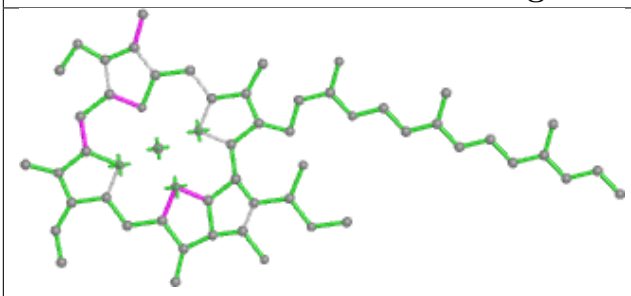


Torsions

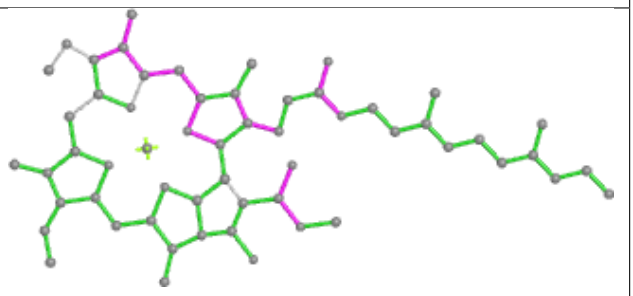


Rings

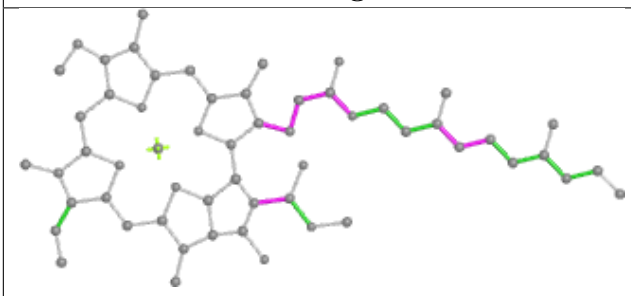
**Ligand CLA h 306**



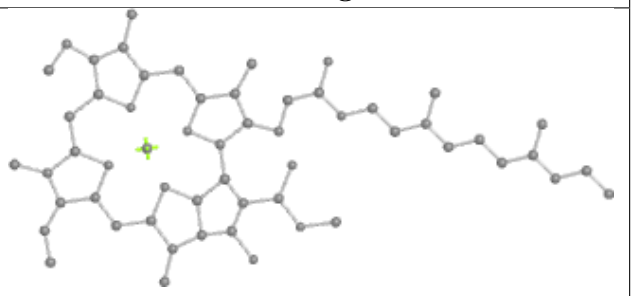
Bond lengths



Bond angles

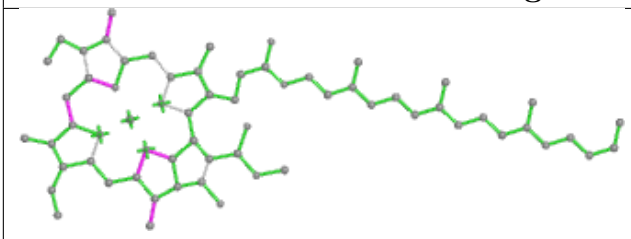


Torsions

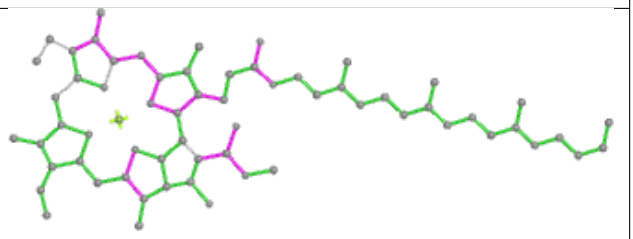


Rings

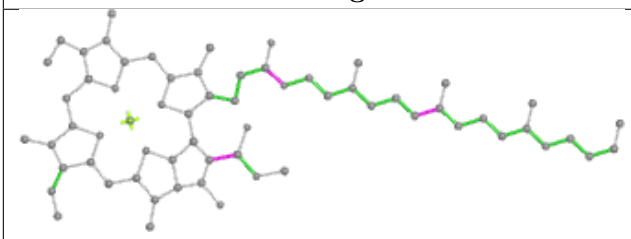
**Ligand CLA B 823**



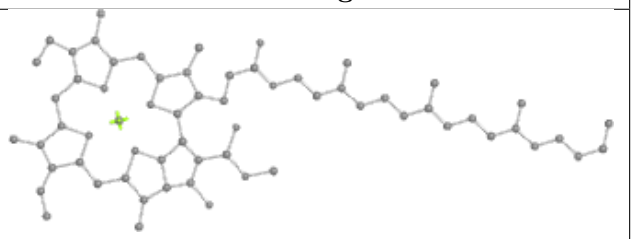
Bond lengths



Bond angles

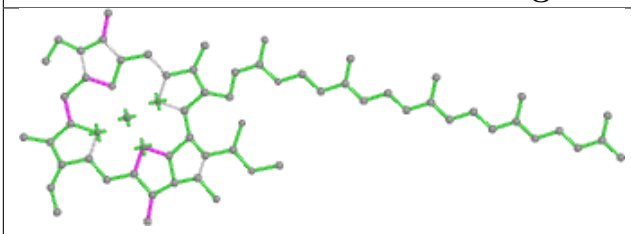


Torsions

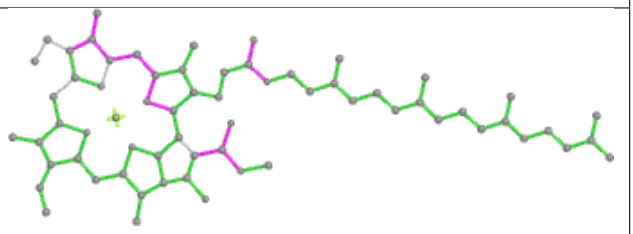


Rings

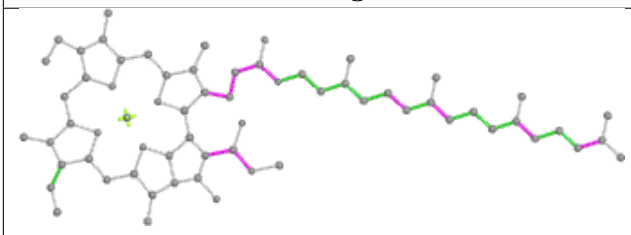
## Ligand CLA i 302



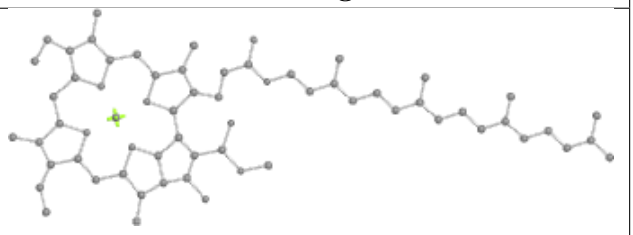
Bond lengths



Bond angles

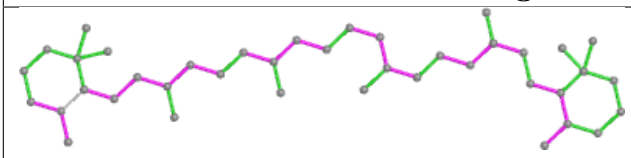


Torsions

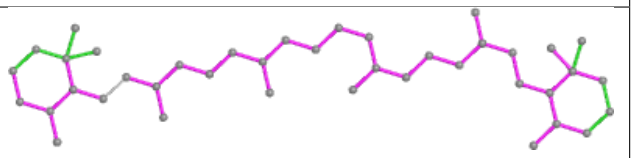


Rings

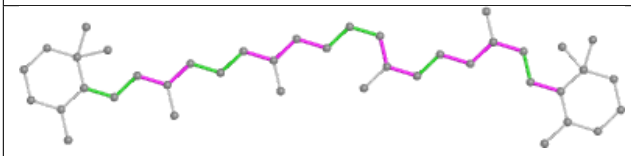
## Ligand WVN R 202



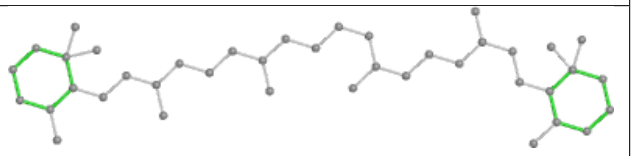
Bond lengths



Bond angles

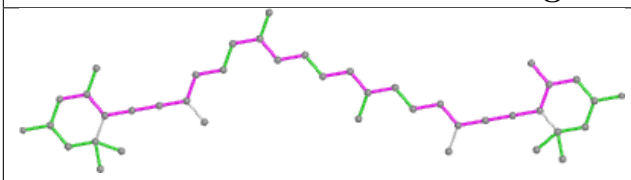


Torsions

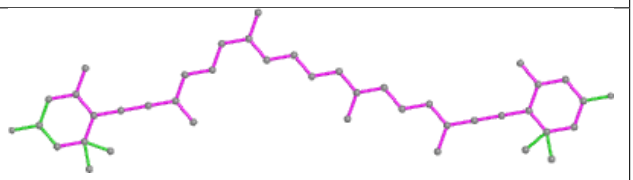


Rings

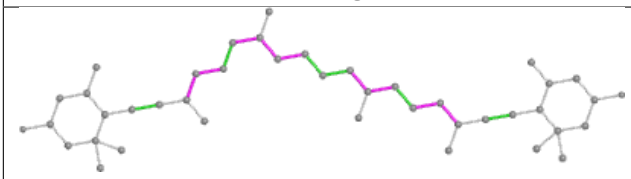
## Ligand II0 c 313



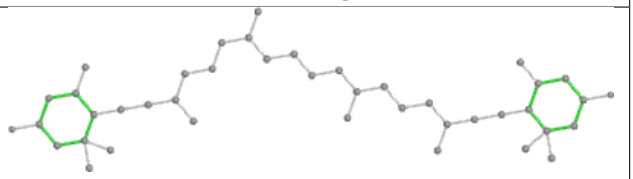
Bond lengths



Bond angles

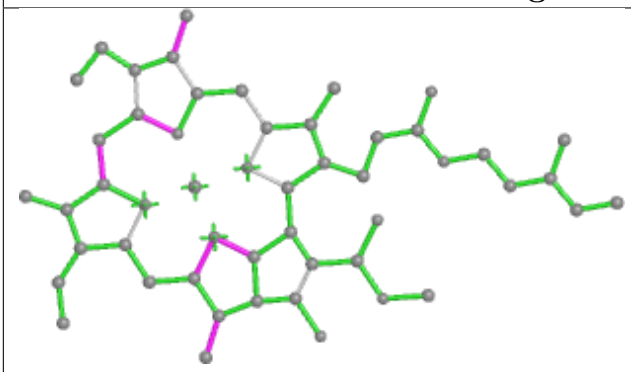


Torsions

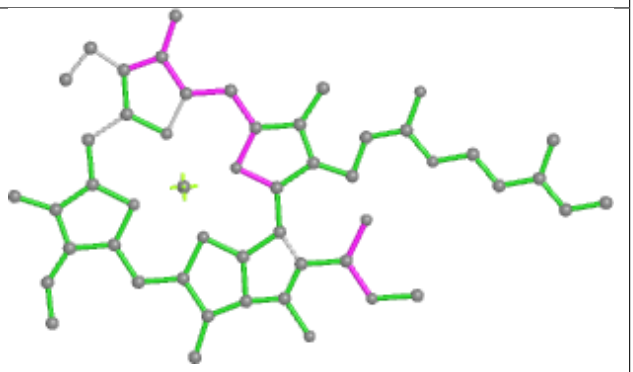


Rings

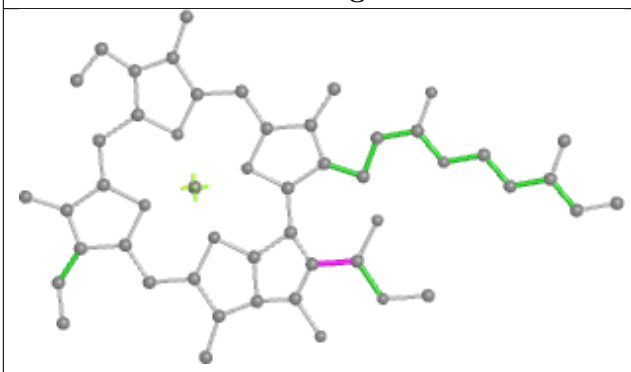
**Ligand CLA a 304**



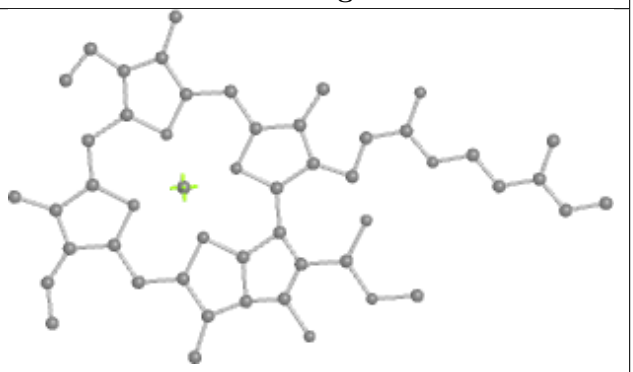
**Bond lengths**



**Bond angles**

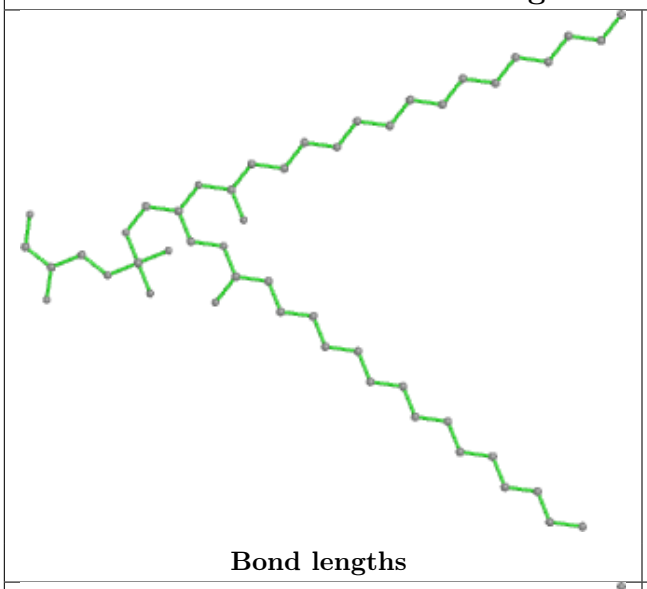


**Torsions**

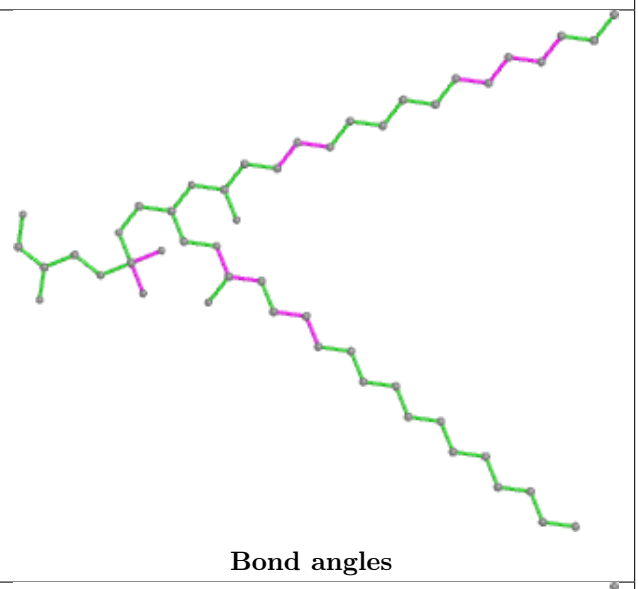


**Rings**

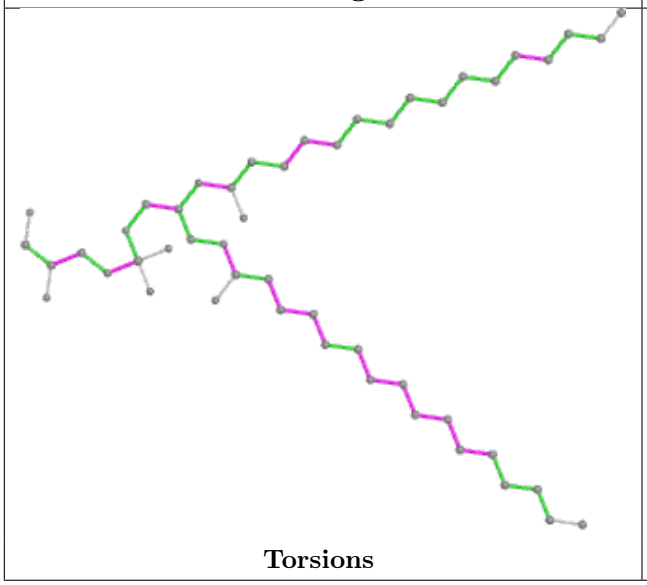
## Ligand LHG a 301



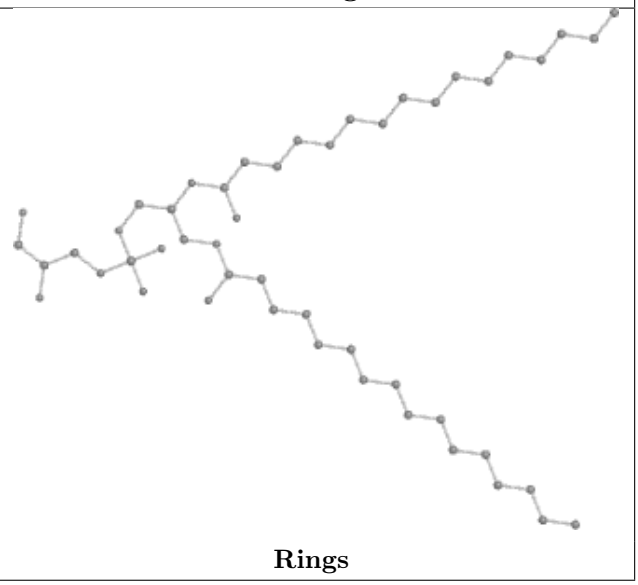
Bond lengths



Bond angles

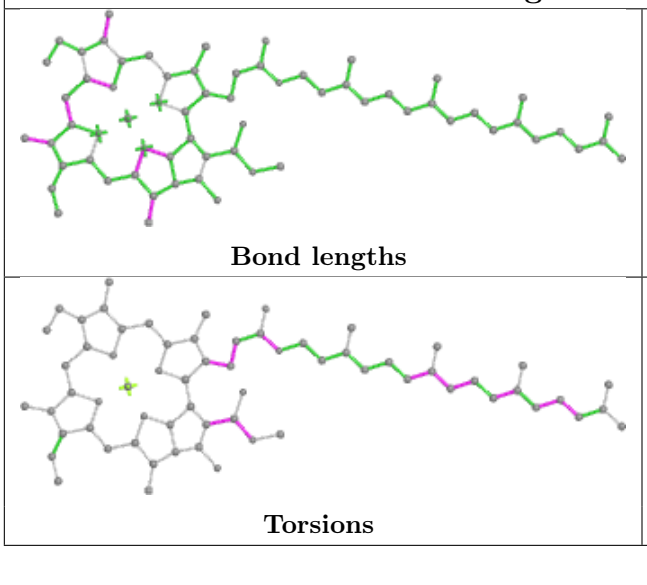


Torsions

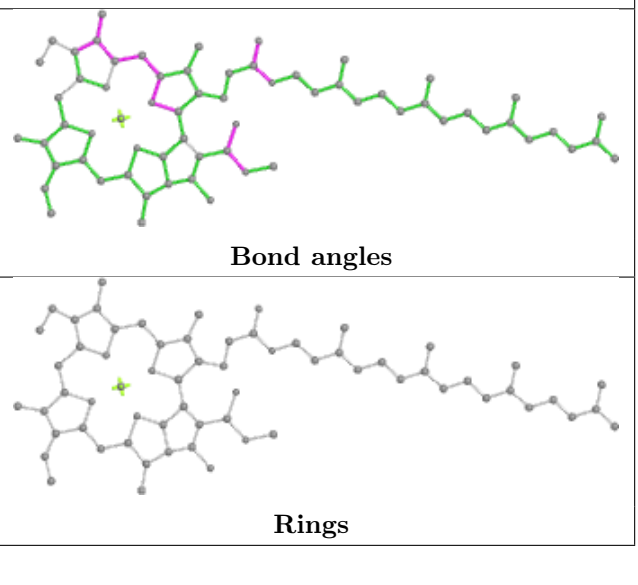


Rings

## Ligand CLA A 810



Bond lengths



Bond angles

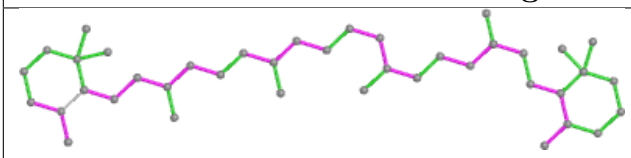


Torsions

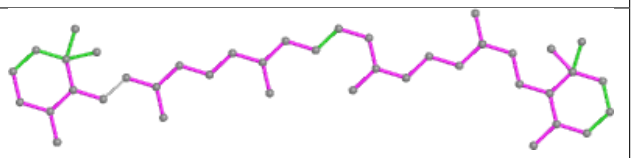


Rings

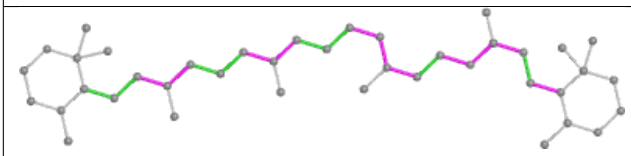
## Ligand WVN s 407



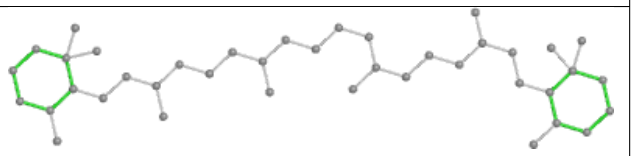
Bond lengths



Bond angles

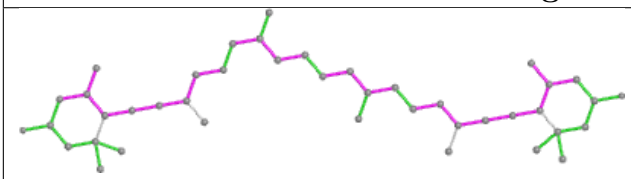


Torsions

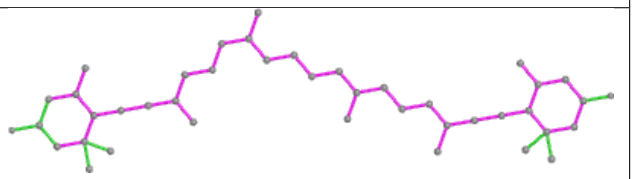


Rings

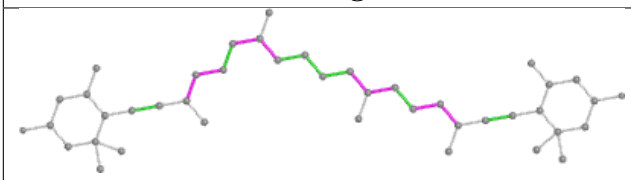
## Ligand II0 d 316



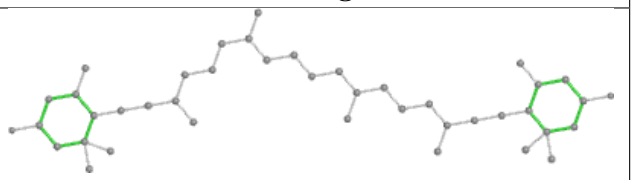
Bond lengths



Bond angles

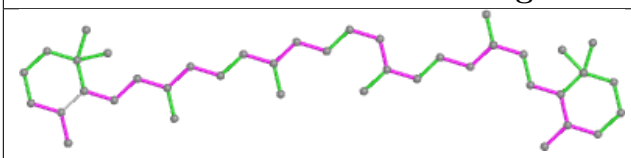


Torsions

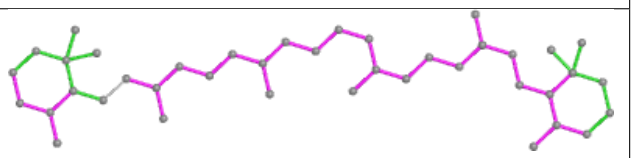


Rings

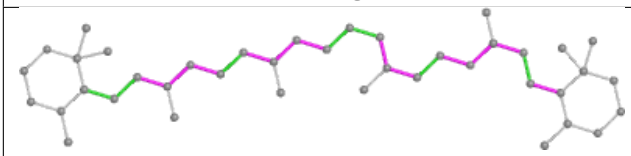
## Ligand WVN B 849



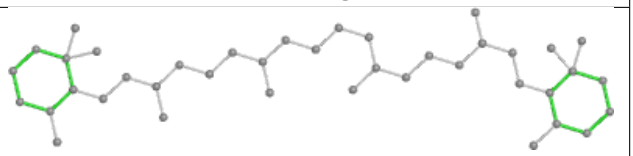
Bond lengths



Bond angles

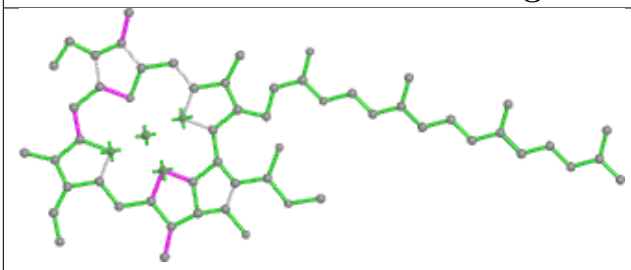


Torsions

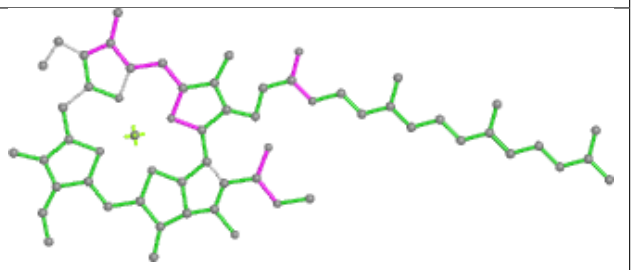


Rings

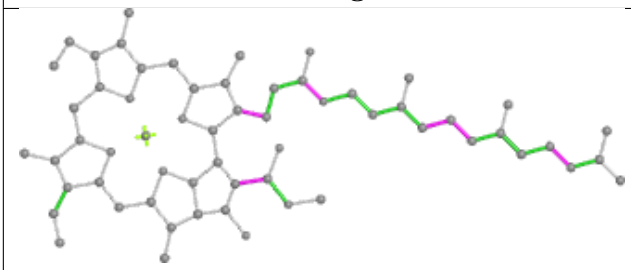
## Ligand CLA A 834



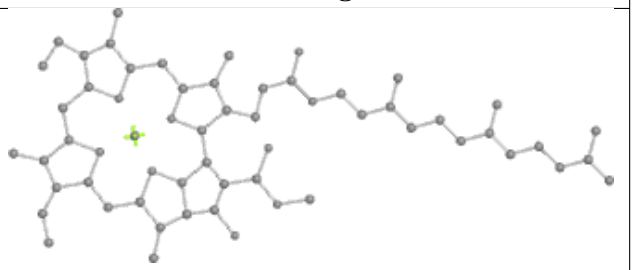
Bond lengths



Bond angles

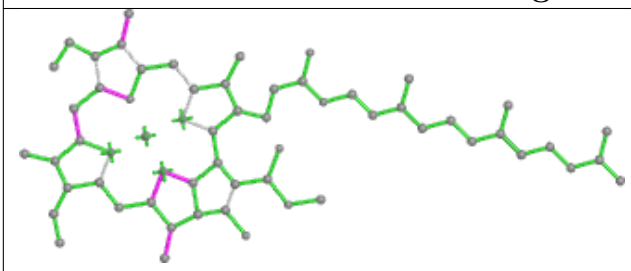


Torsions

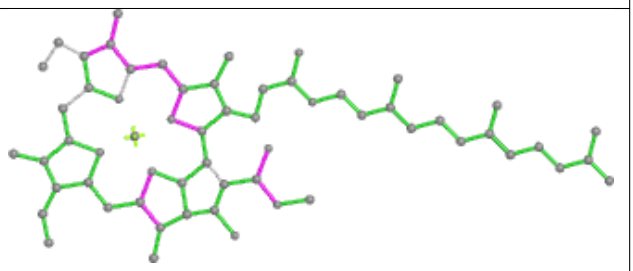


Rings

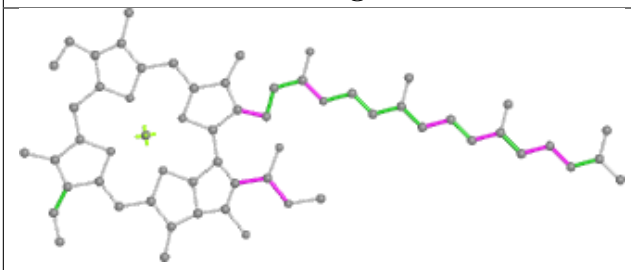
## Ligand CLA i 311



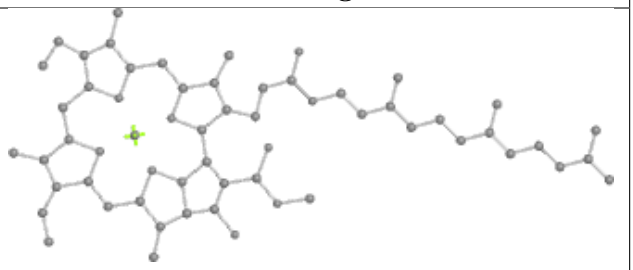
Bond lengths



Bond angles

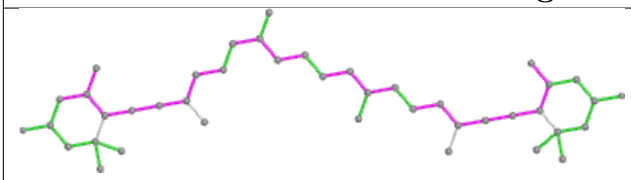


Torsions

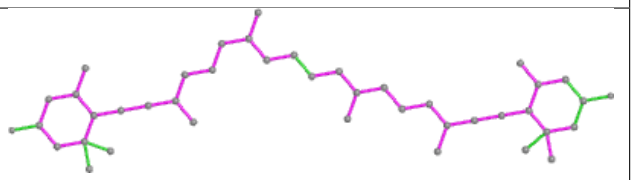


Rings

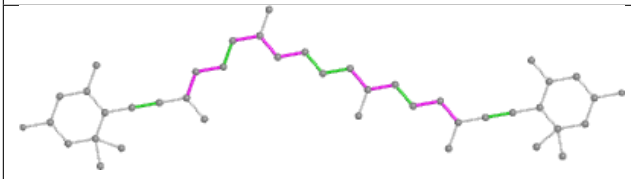
## Ligand II0 m 618



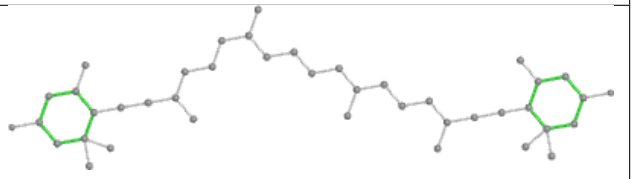
Bond lengths



Bond angles

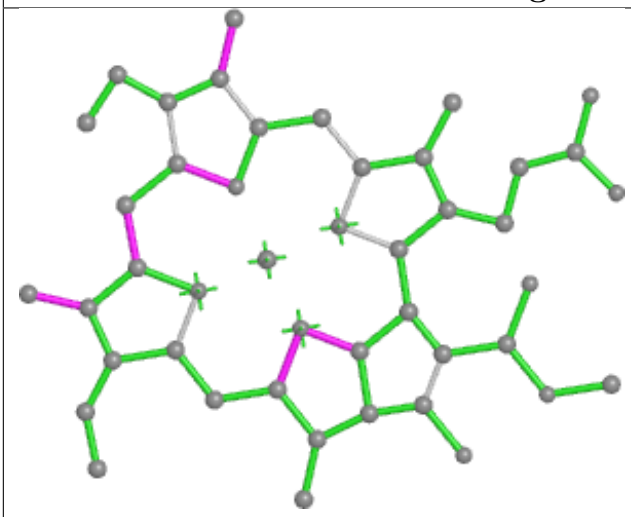


Torsions

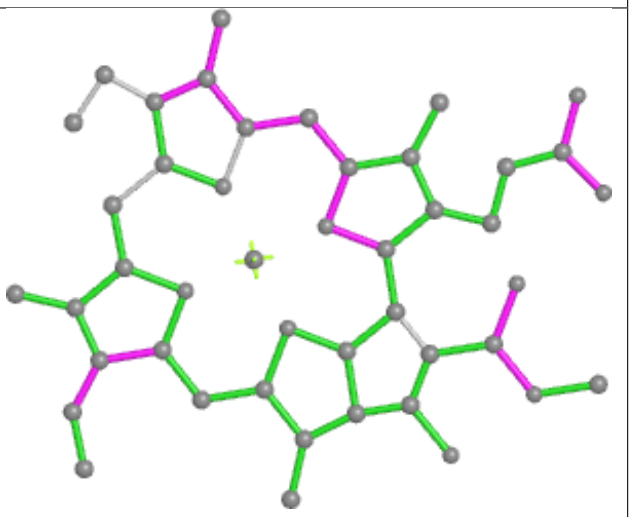


Rings

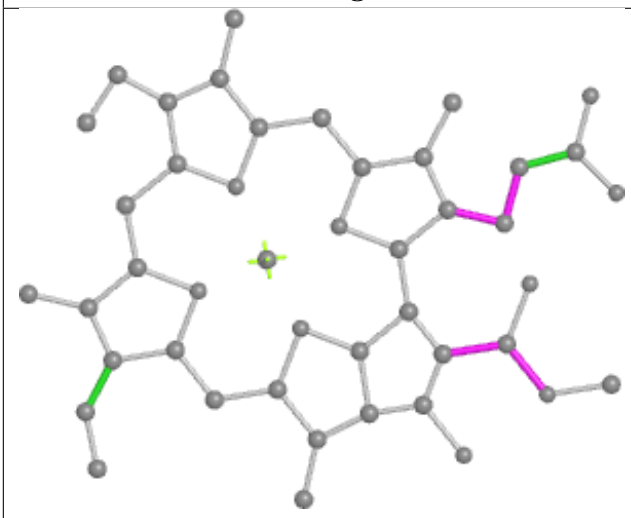
## Ligand CLA c 311



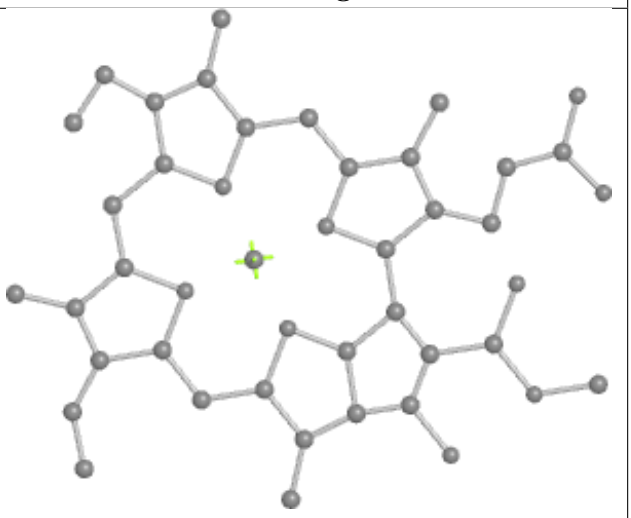
Bond lengths



Bond angles

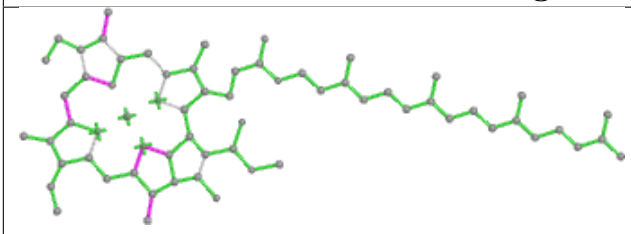


Torsions

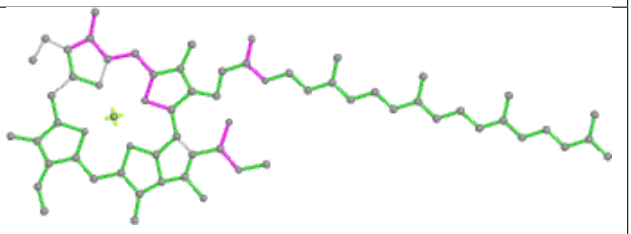


Rings

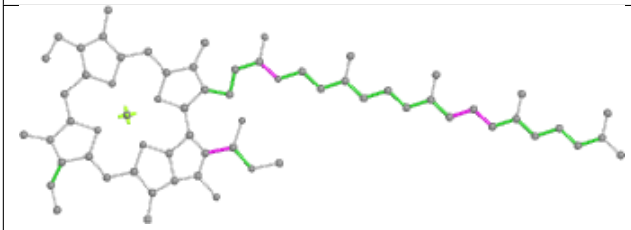
## Ligand CLA i 304



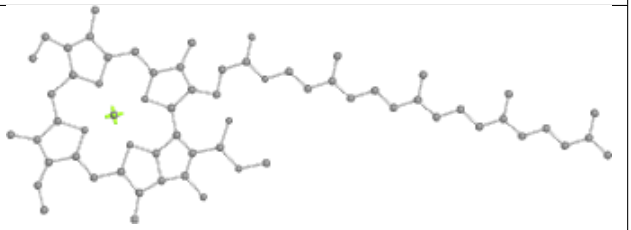
Bond lengths



Bond angles

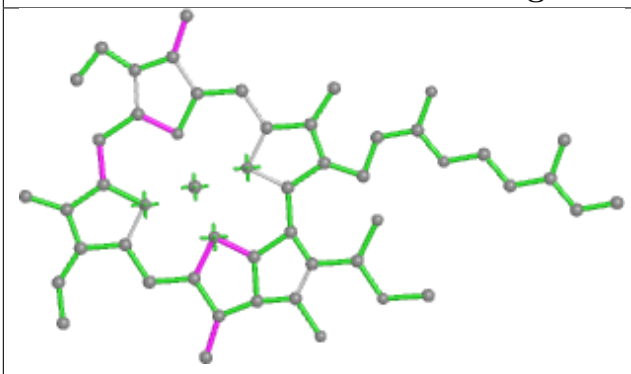


Torsions

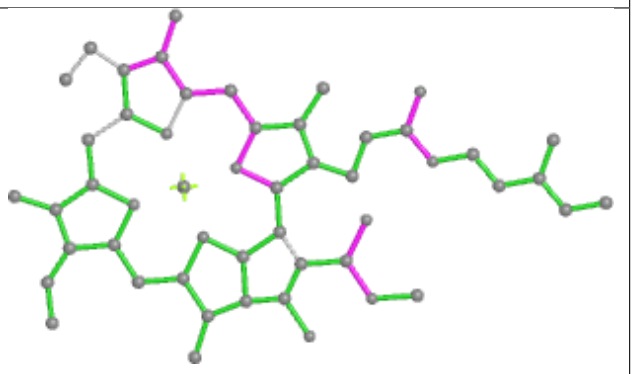


Rings

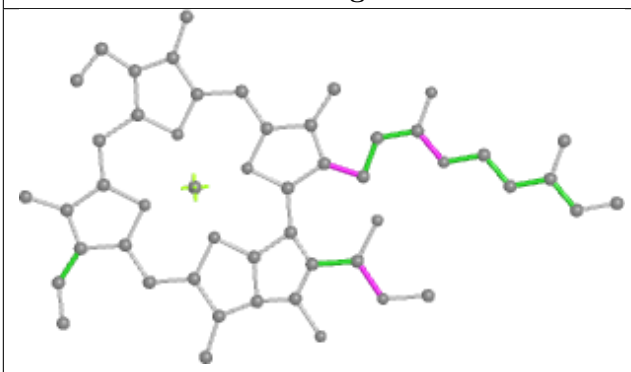
## Ligand CLA h 304



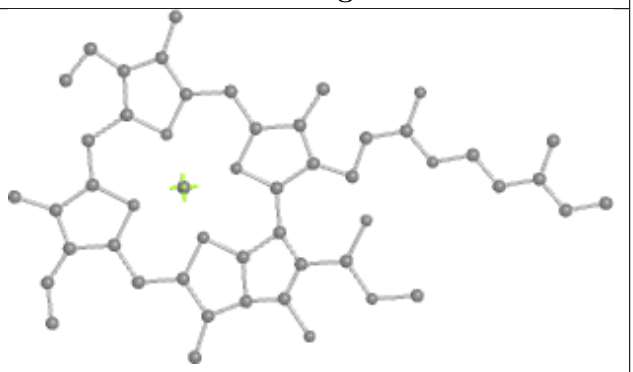
Bond lengths



Bond angles

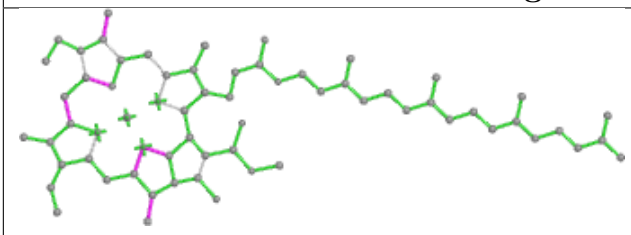


Torsions

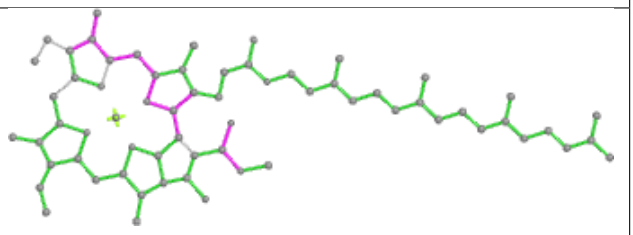


Rings

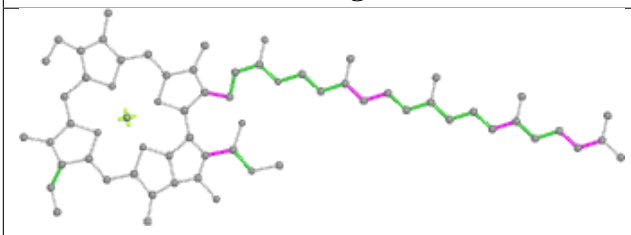
## Ligand CLA B 814



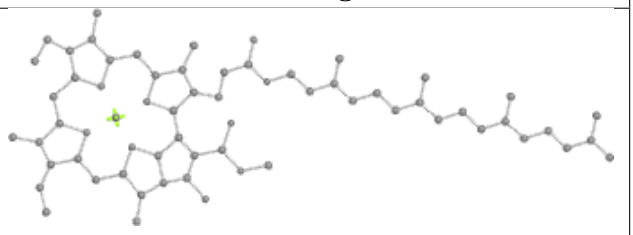
Bond lengths



Bond angles

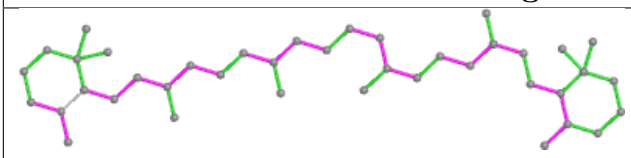


Torsions

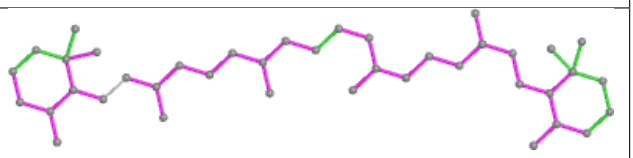


Rings

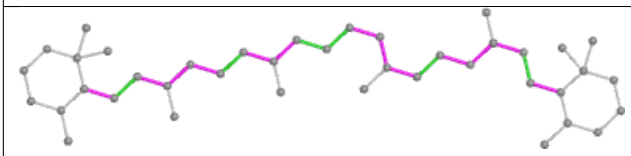
## Ligand WVN I 101



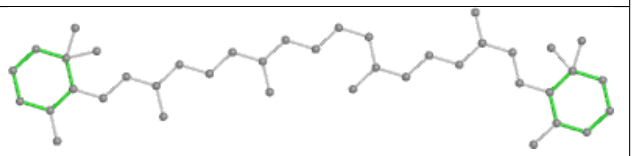
Bond lengths



Bond angles

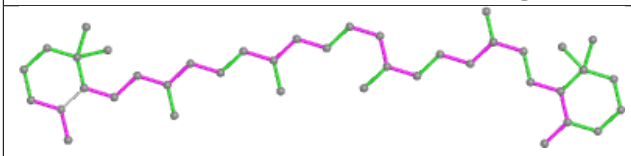


Torsions

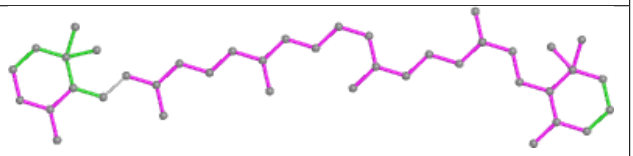


Rings

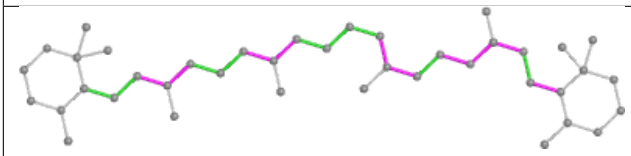
## Ligand WVN B 848



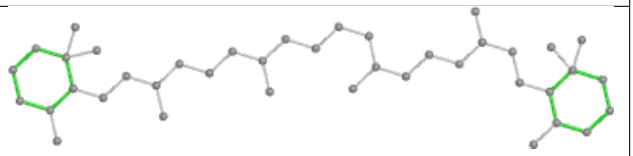
Bond lengths



Bond angles

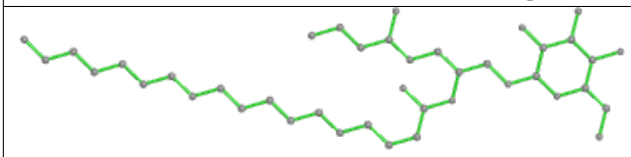


Torsions

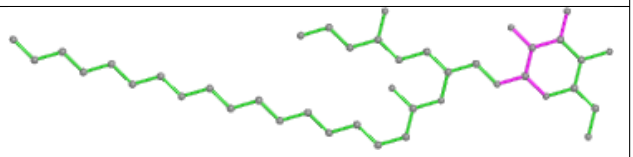


Rings

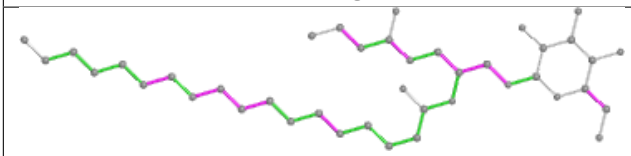
## Ligand LMG F 208



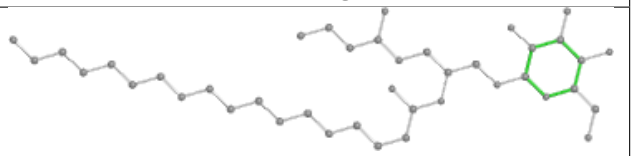
Bond lengths



Bond angles

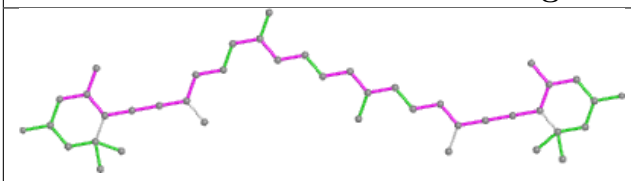


Torsions

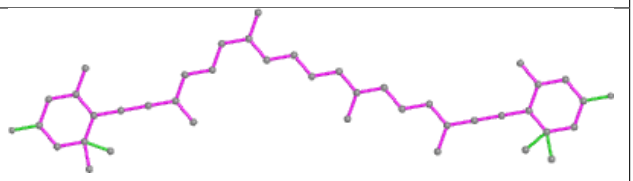


Rings

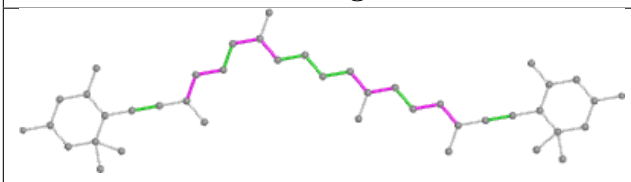
## Ligand II0 n 618



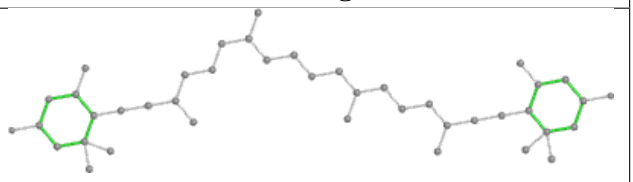
Bond lengths



Bond angles

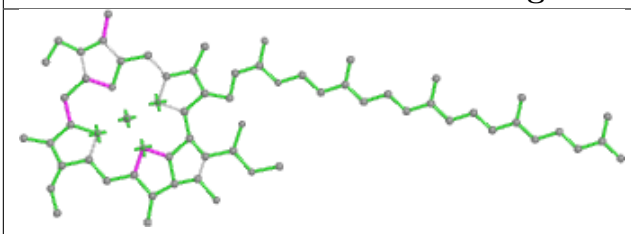


Torsions

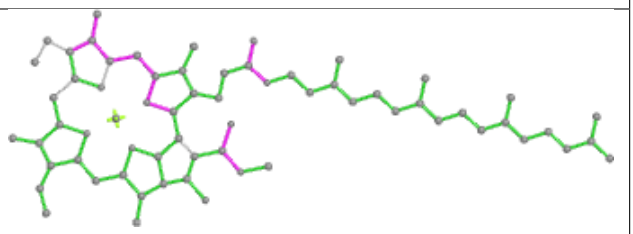


Rings

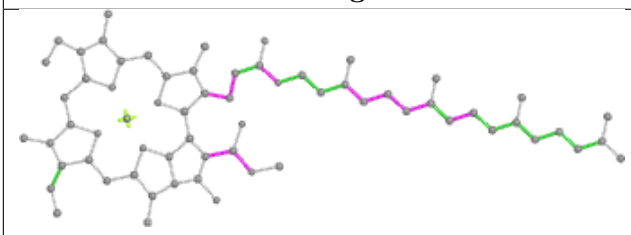
## Ligand CLA b 312



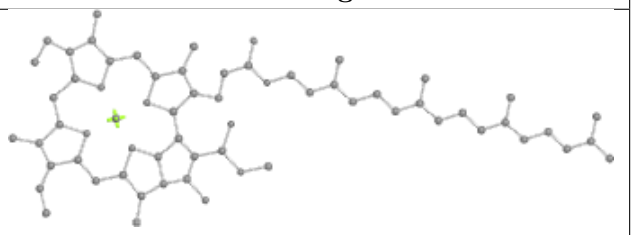
Bond lengths



Bond angles

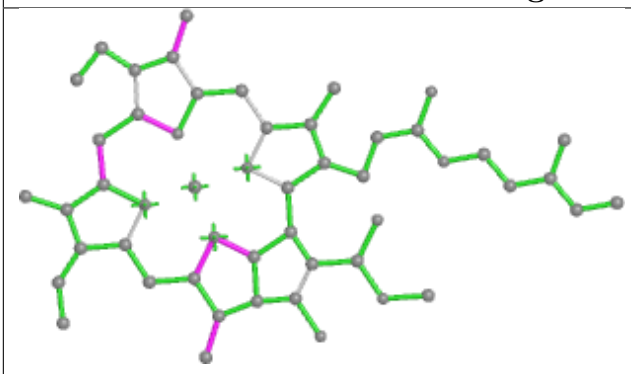


Torsions

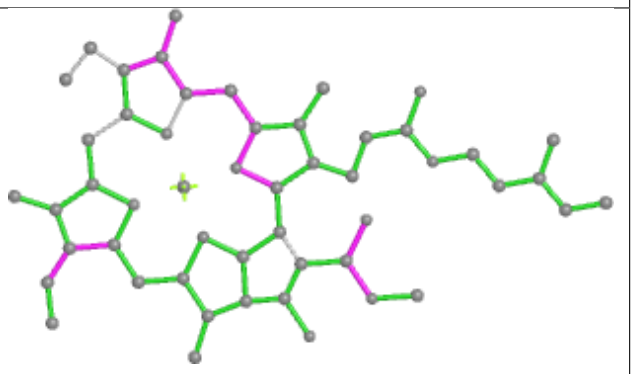


Rings

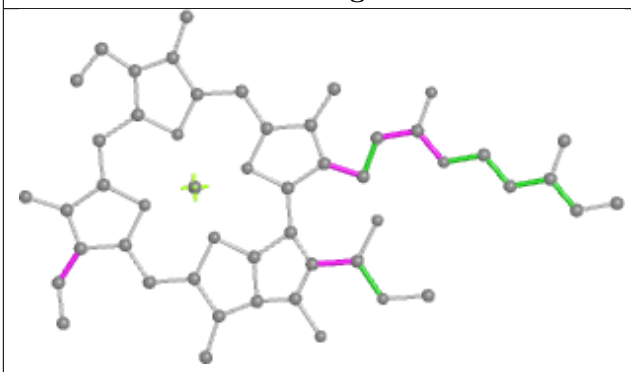
## Ligand CLA n 605



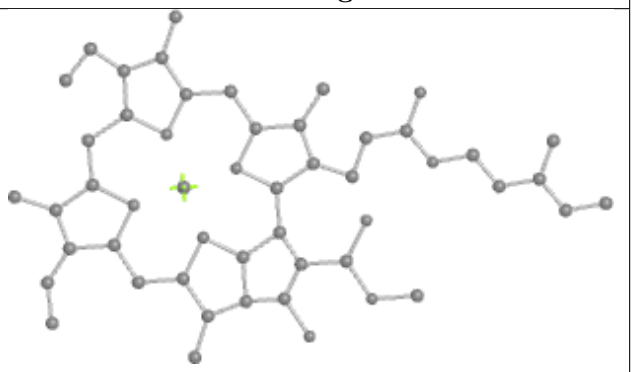
Bond lengths



Bond angles

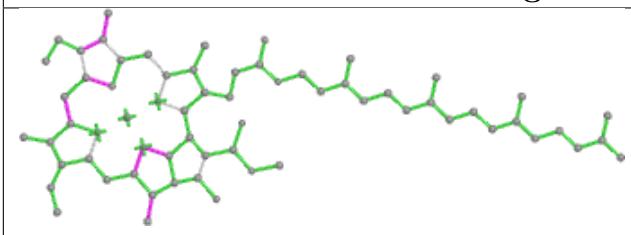


Torsions

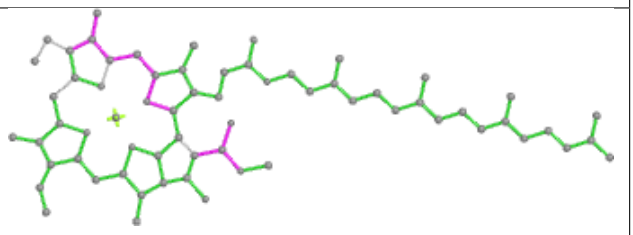


Rings

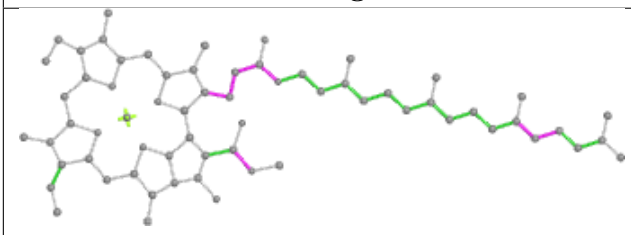
## Ligand CLA A 837



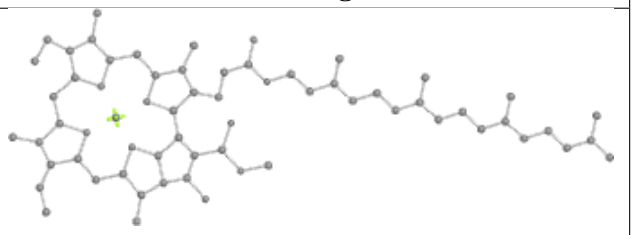
Bond lengths



Bond angles

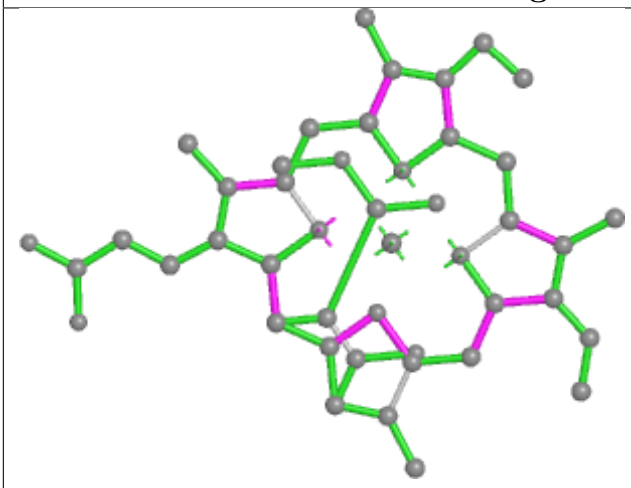


Torsions

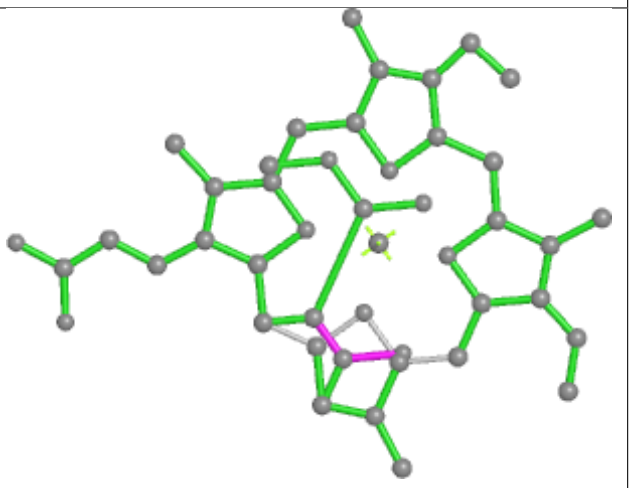


Rings

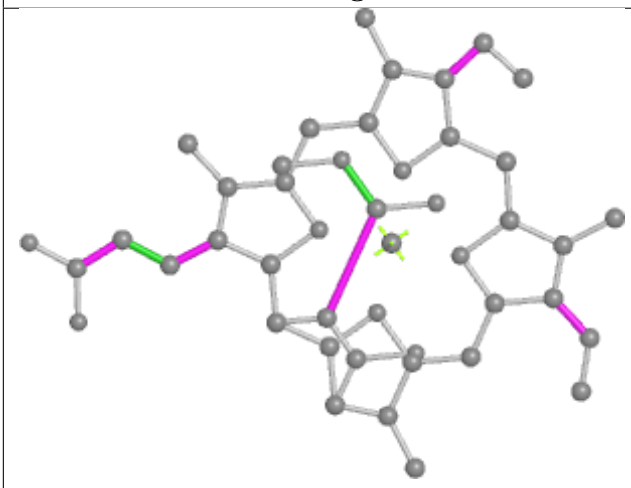
## Ligand KC2 k 612



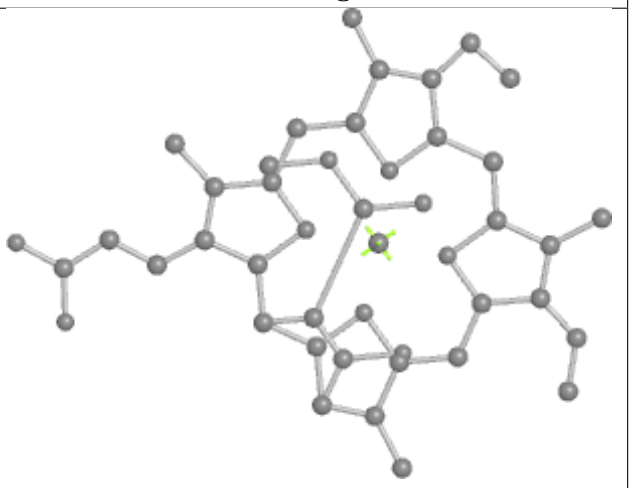
Bond lengths



Bond angles

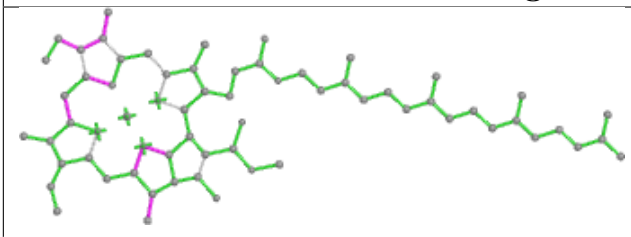


Torsions

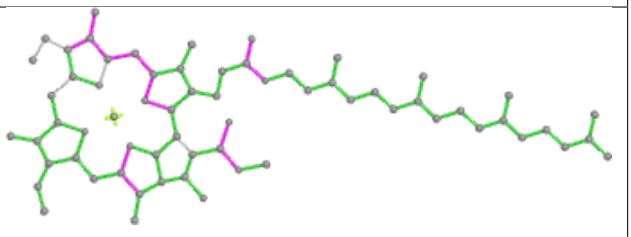


Rings

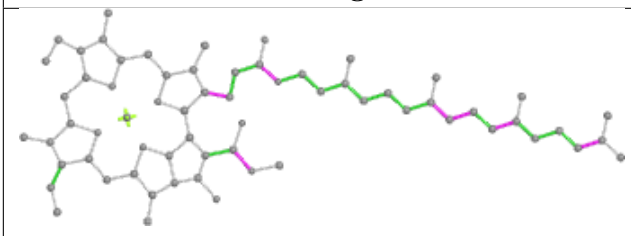
## Ligand CLA B 818



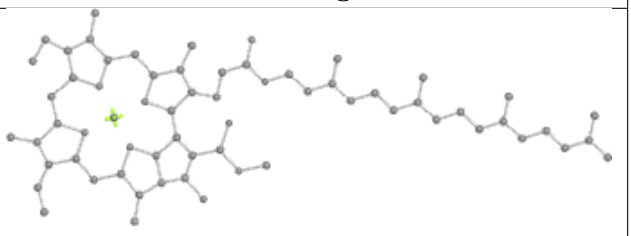
Bond lengths



Bond angles

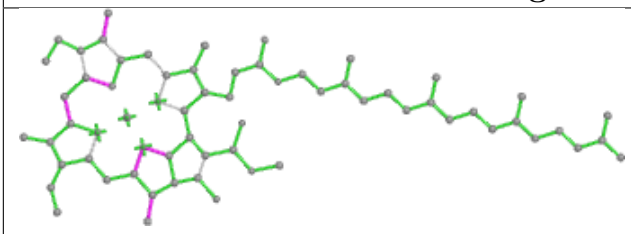


Torsions

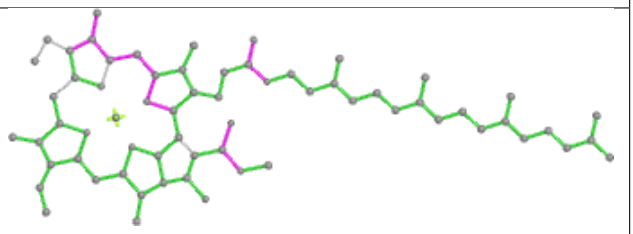


Rings

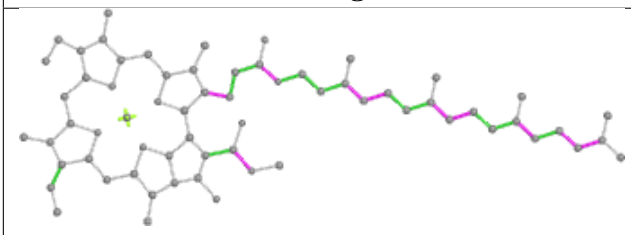
**Ligand CLA e 306**



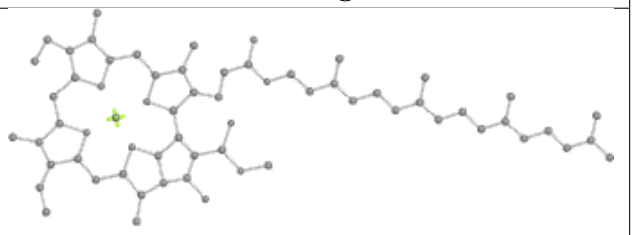
Bond lengths



Bond angles

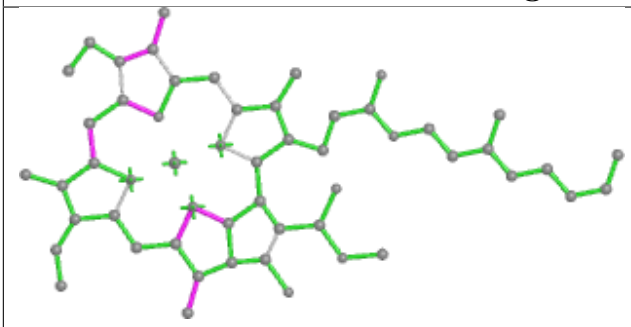


Torsions

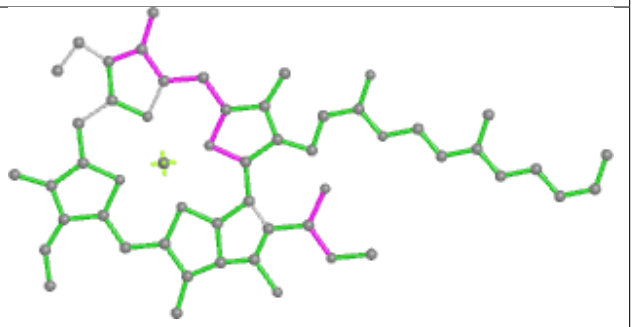


Rings

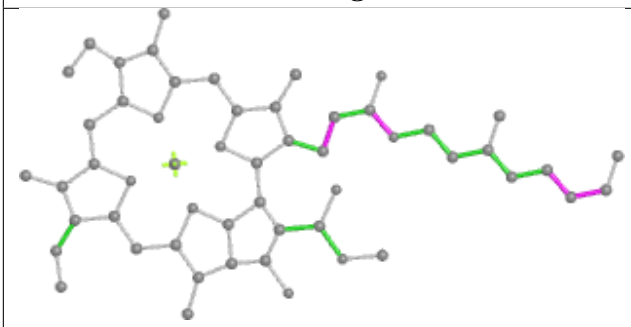
**Ligand CLA A 811**



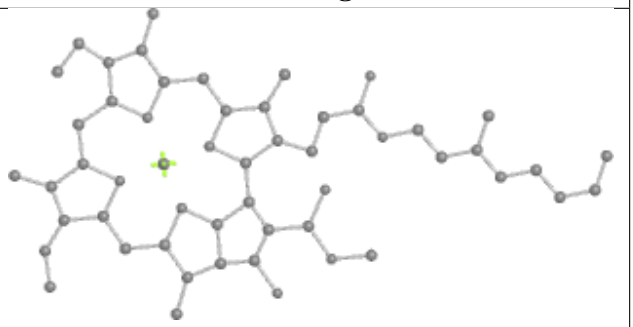
Bond lengths



Bond angles

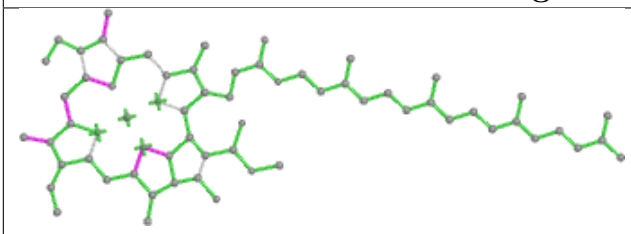


Torsions

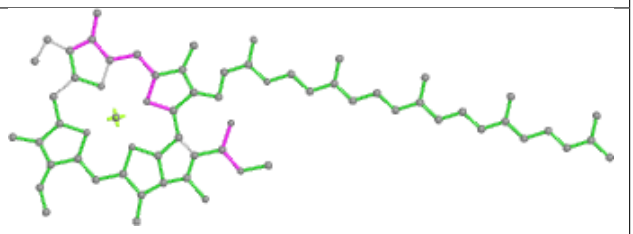


Rings

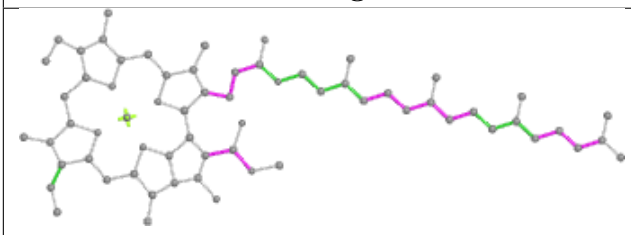
## Ligand CLA i 308



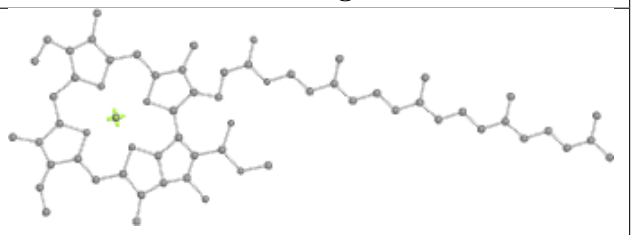
Bond lengths



Bond angles

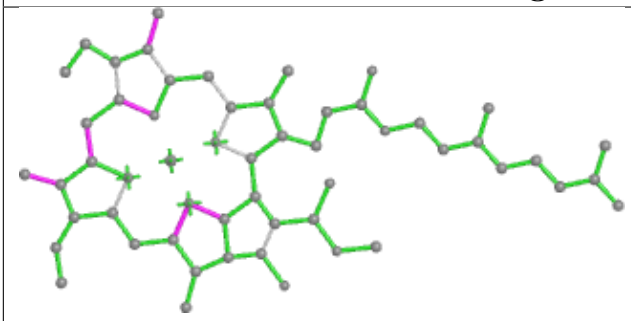


Torsions

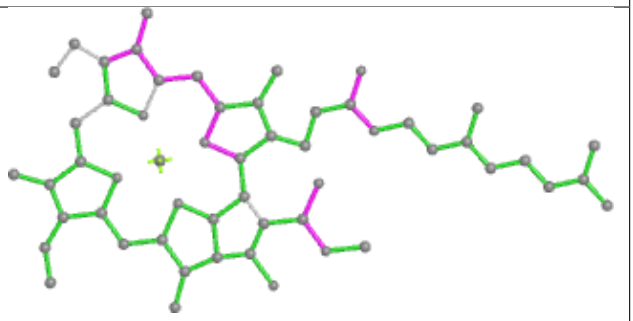


Rings

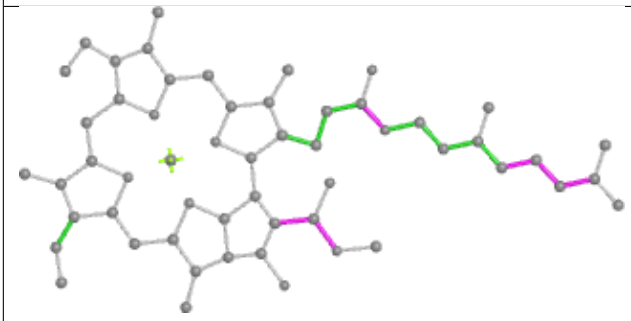
## Ligand CLA e 310



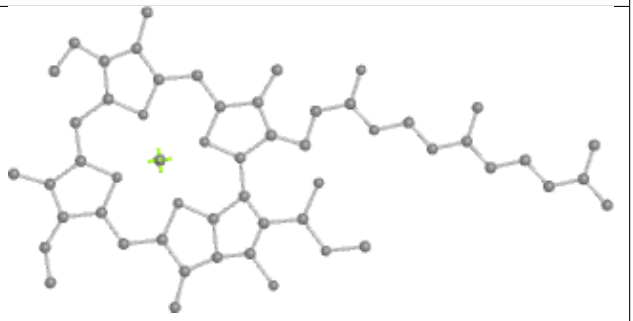
Bond lengths



Bond angles

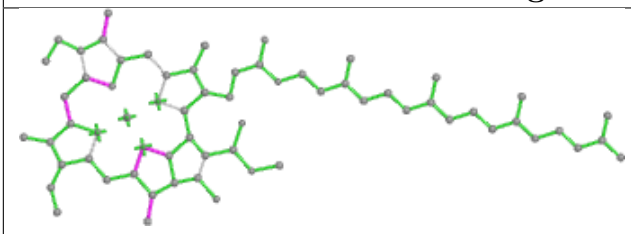


Torsions

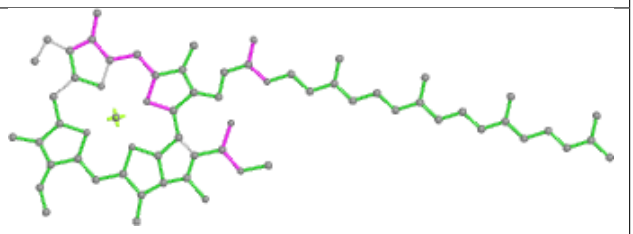


Rings

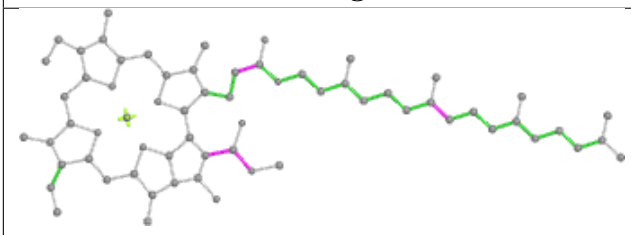
**Ligand CLA h 312**



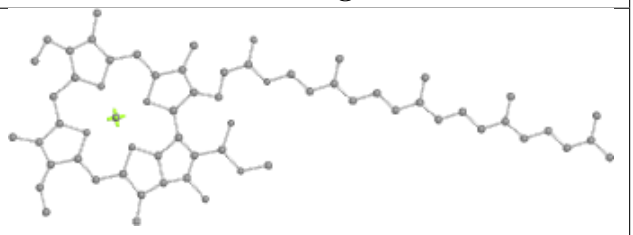
Bond lengths



Bond angles

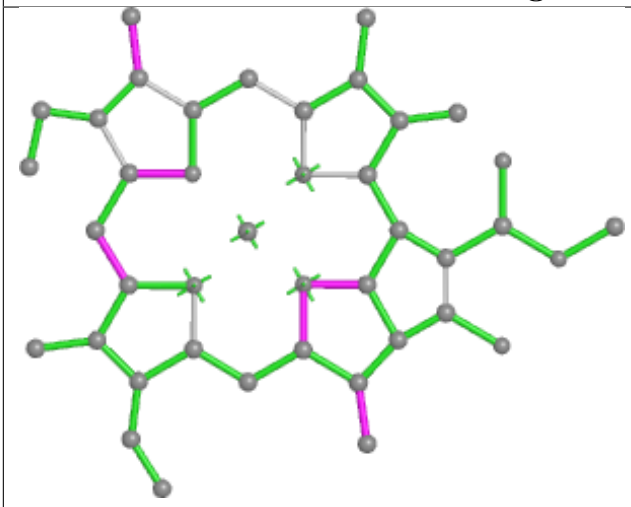


Torsions

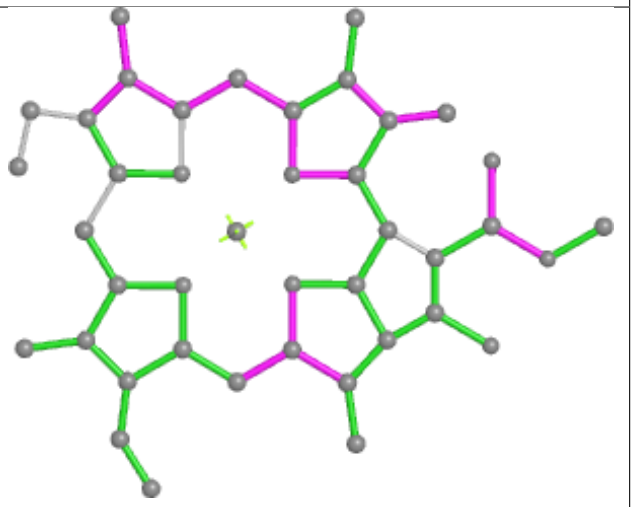


Rings

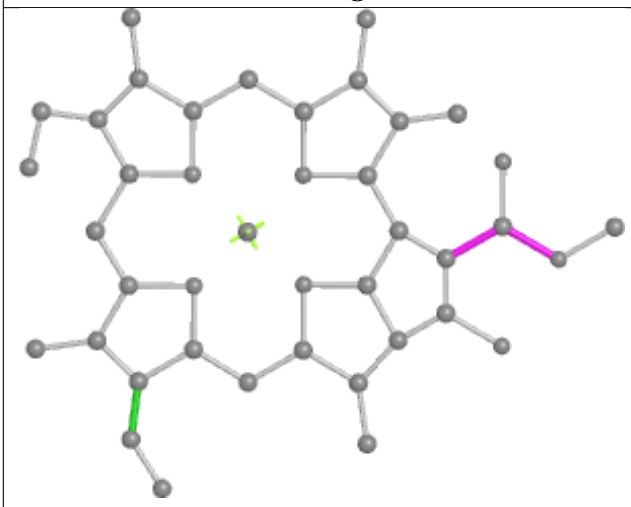
**Ligand CLA d 310**



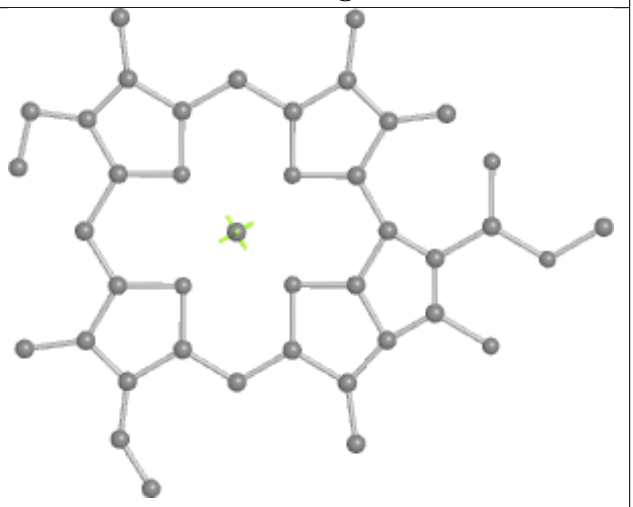
Bond lengths



Bond angles

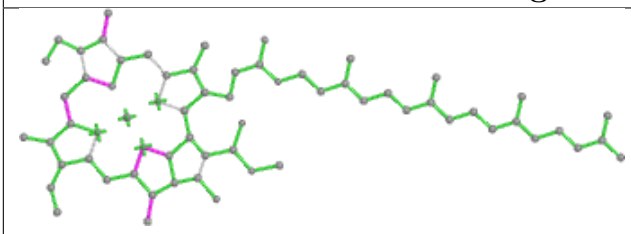


Torsions

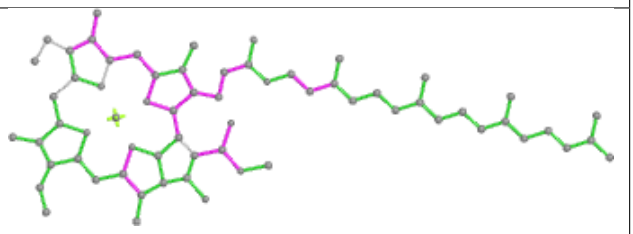


Rings

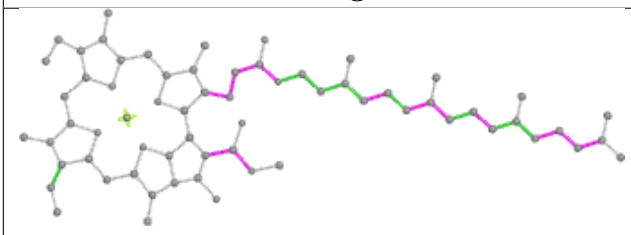
## Ligand CLA s 402



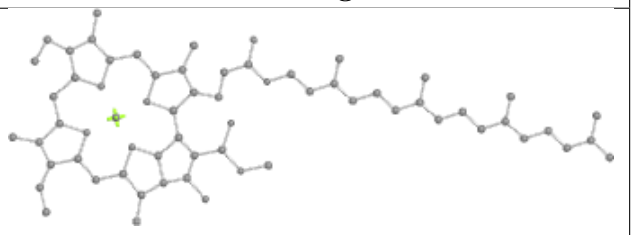
Bond lengths



Bond angles

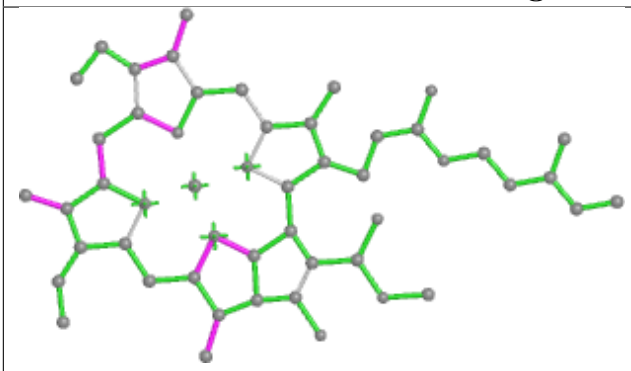


Torsions

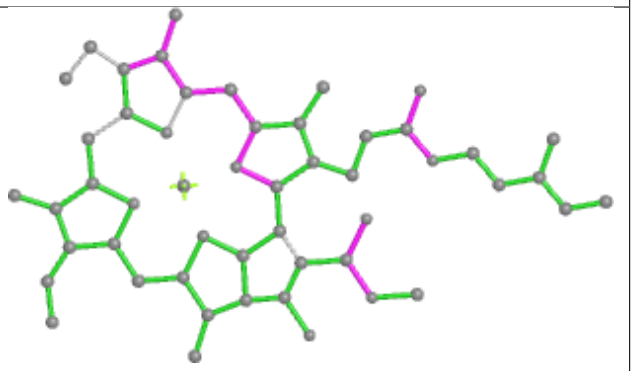


Rings

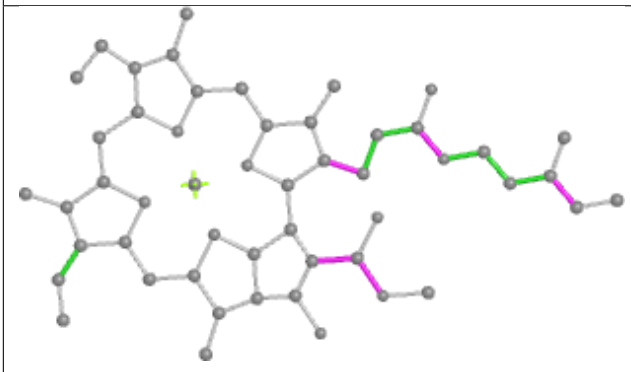
## Ligand CLA n 603



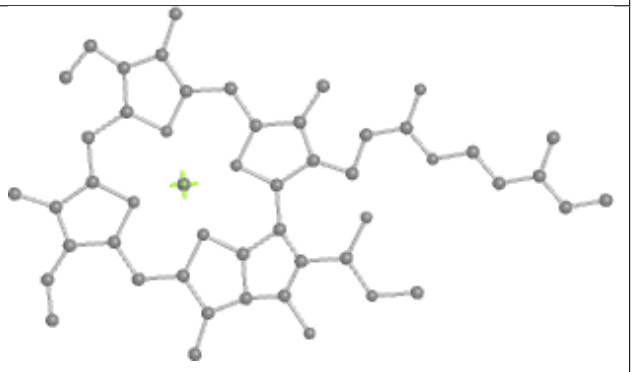
Bond lengths



Bond angles

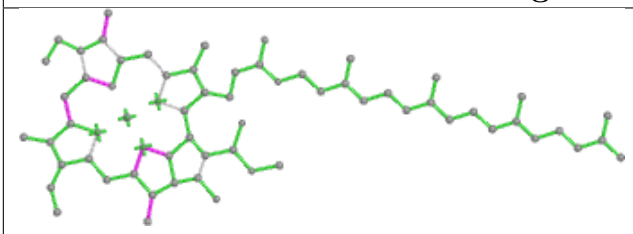


Torsions

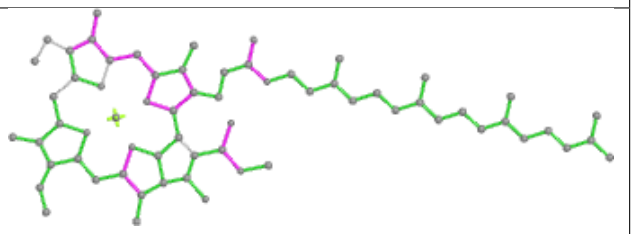


Rings

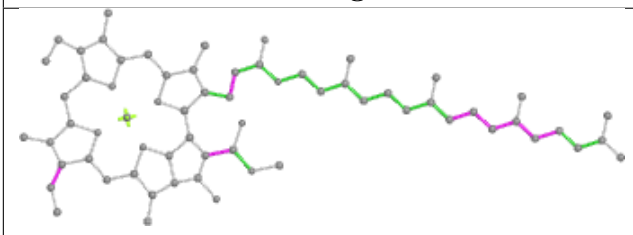
## Ligand CLA f 604



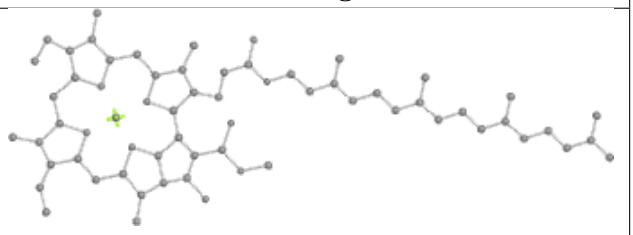
Bond lengths



Bond angles

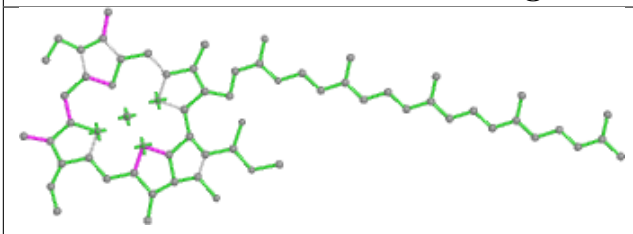


Torsions

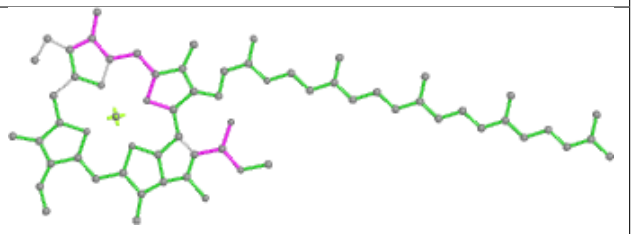


Rings

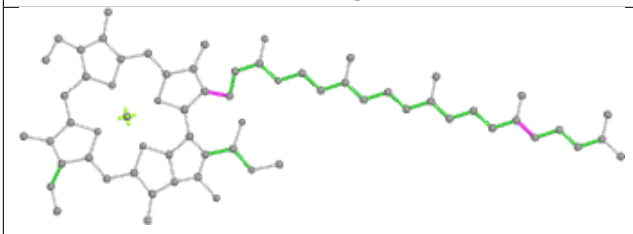
## Ligand CLA B 824



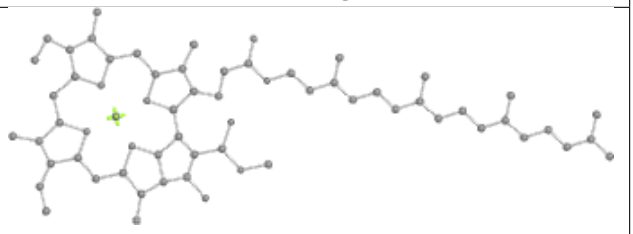
Bond lengths



Bond angles

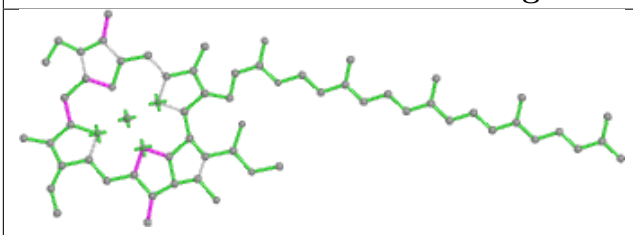


Torsions

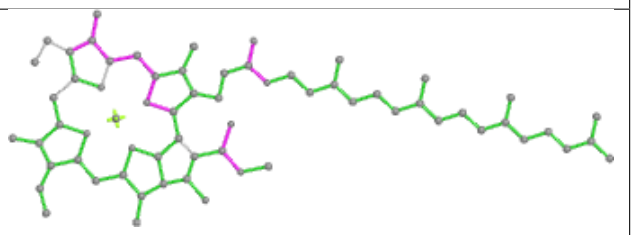


Rings

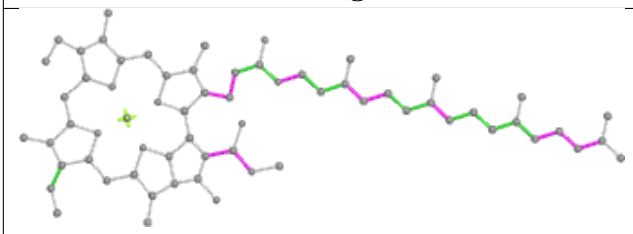
## Ligand CLA m 613



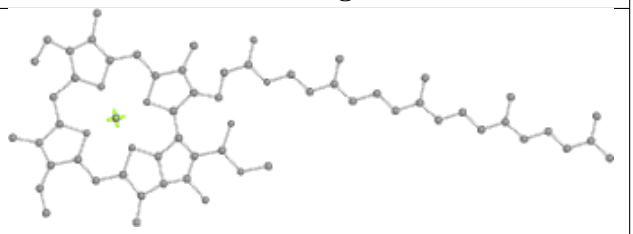
Bond lengths



Bond angles

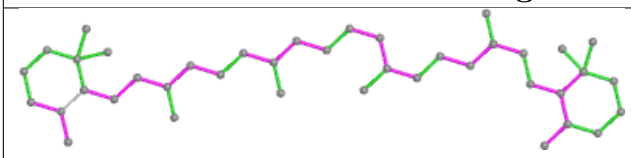


Torsions

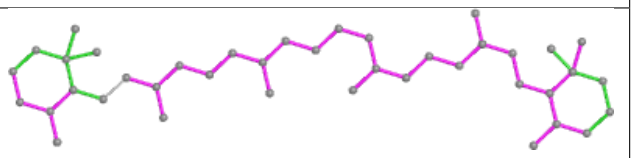


Rings

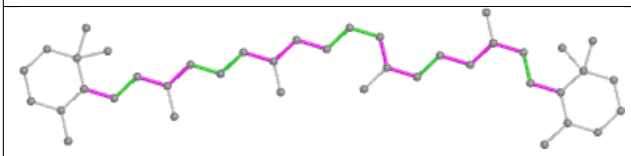
## Ligand WVN B 846



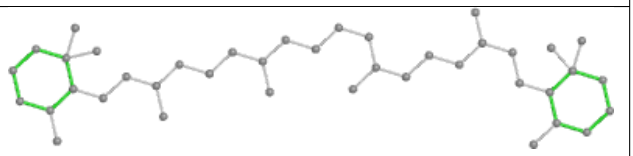
Bond lengths



Bond angles

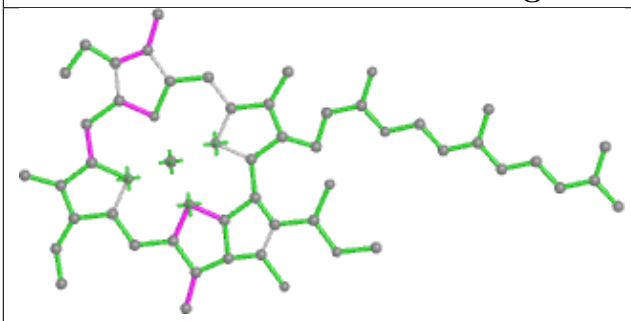


Torsions

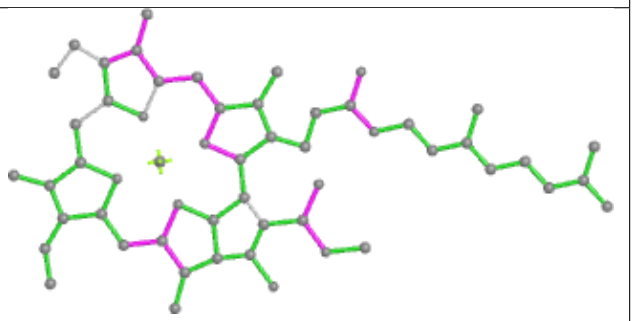


Rings

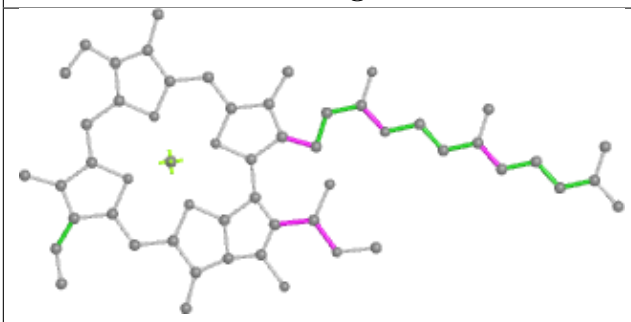
## Ligand CLA A 823



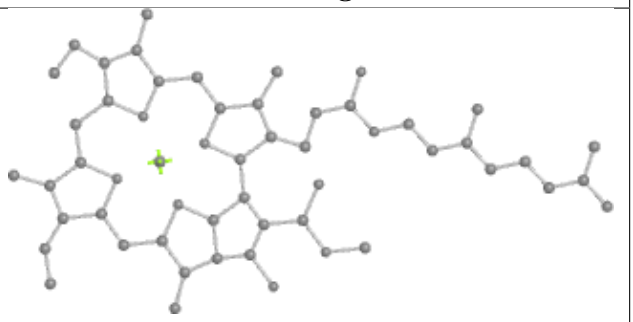
Bond lengths



Bond angles

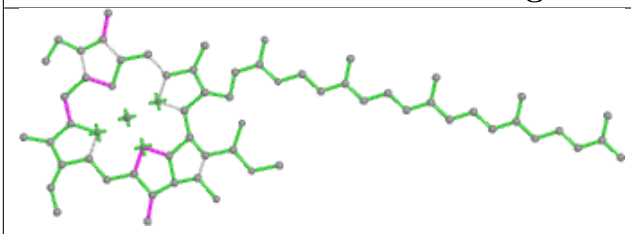


Torsions

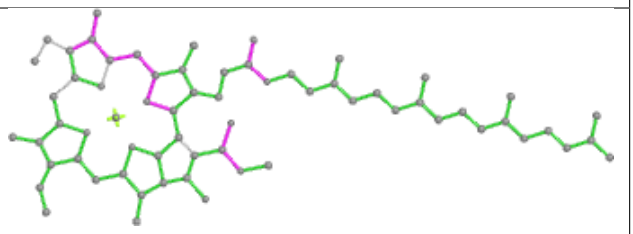


Rings

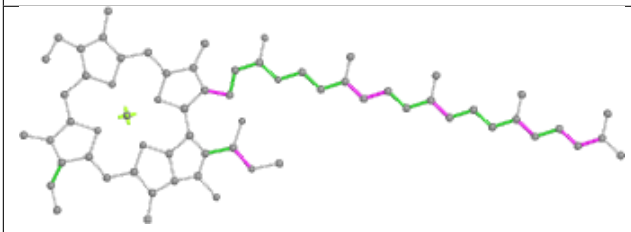
## Ligand CLA F 201



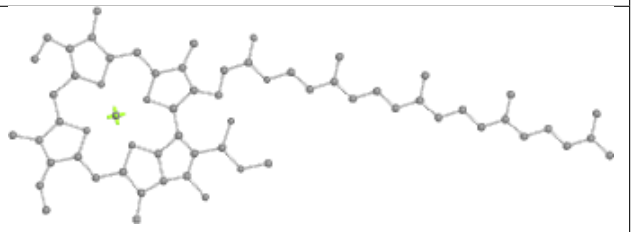
Bond lengths



Bond angles

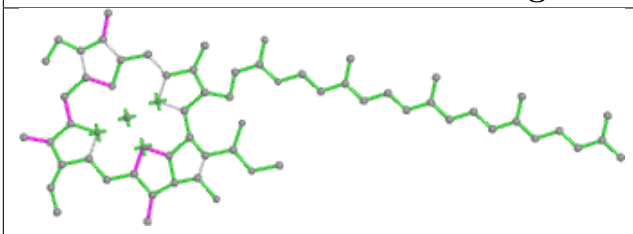


Torsions

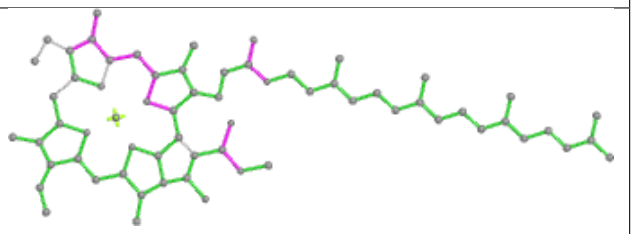


Rings

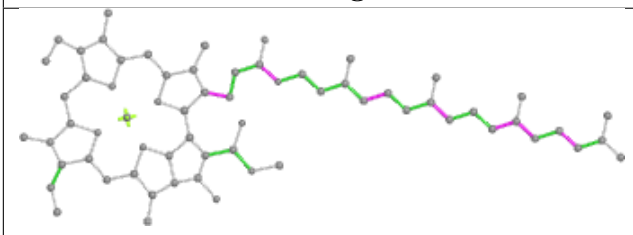
## Ligand CLA a 311



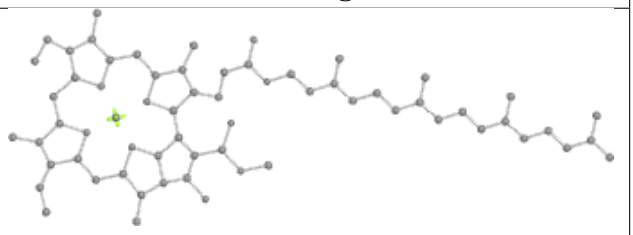
Bond lengths



Bond angles

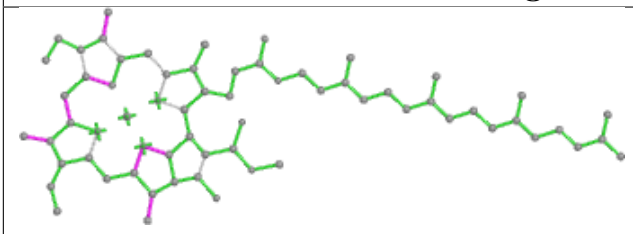


Torsions

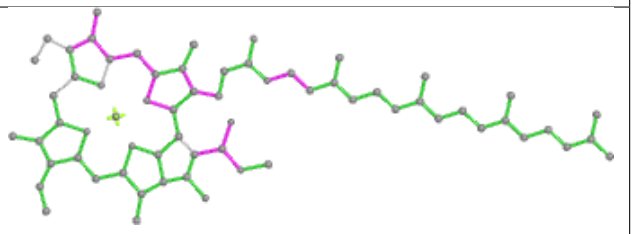


Rings

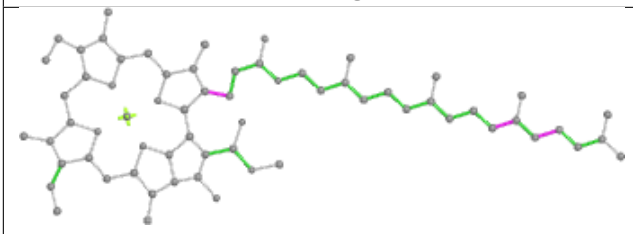
## Ligand CLA B 840



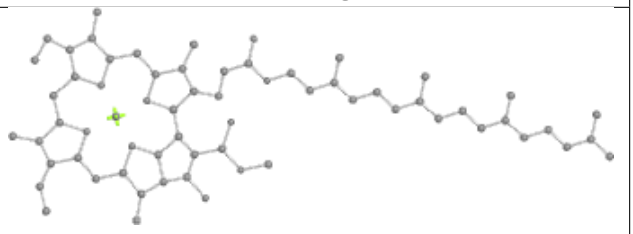
Bond lengths



Bond angles

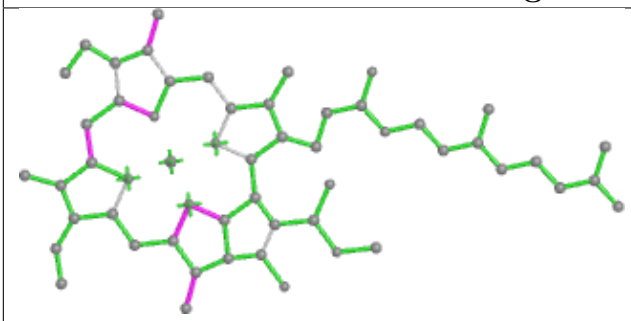


Torsions

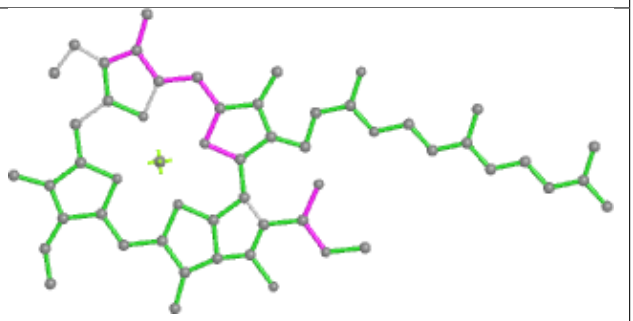


Rings

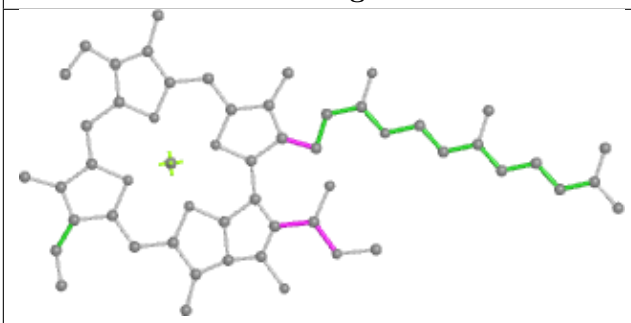
## Ligand CLA B 833



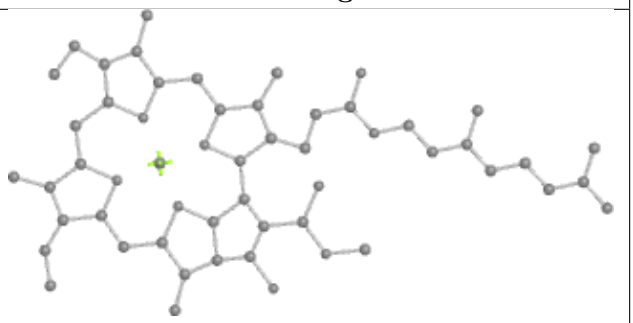
Bond lengths



Bond angles

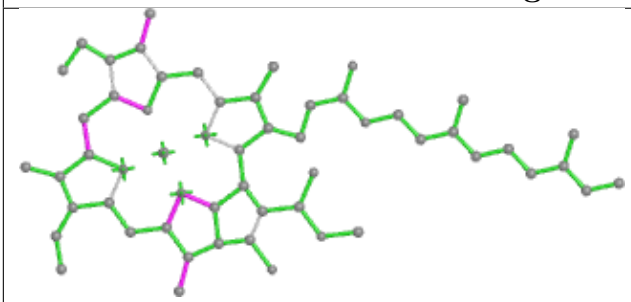


Torsions

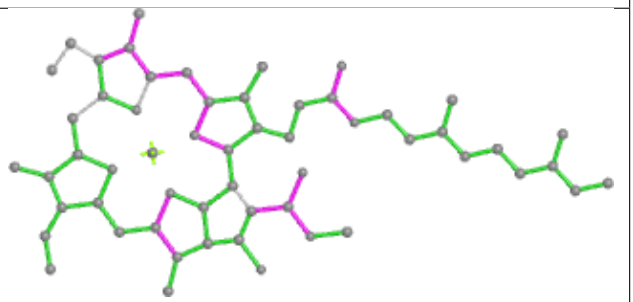


Rings

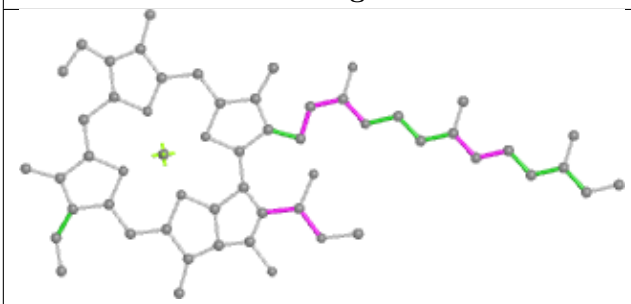
## Ligand CLA A 822



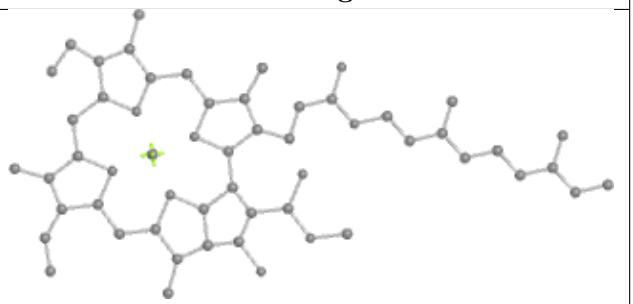
Bond lengths



Bond angles

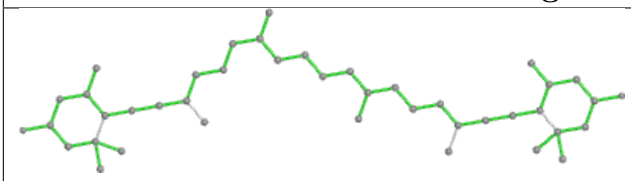


Torsions

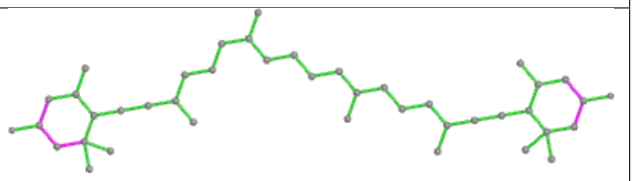


Rings

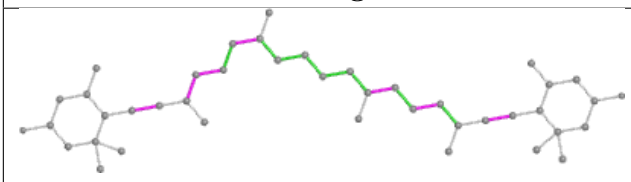
## Ligand II0 n 614



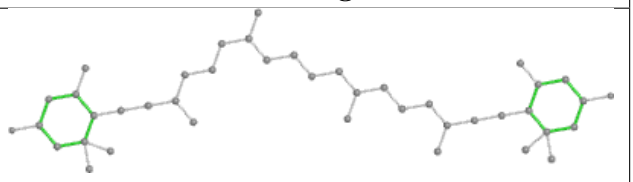
Bond lengths



Bond angles

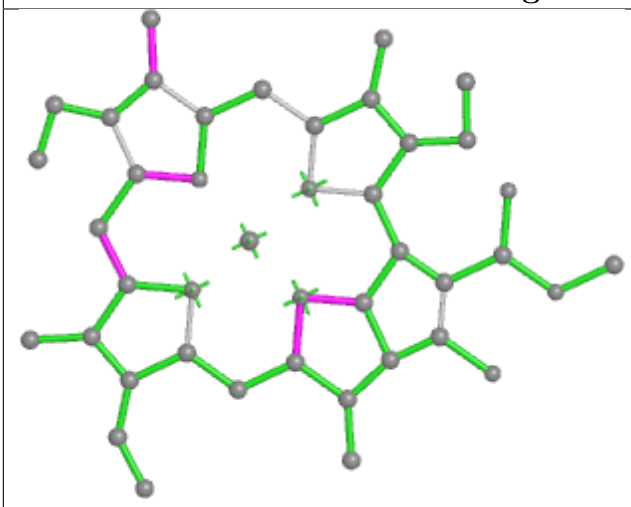


Torsions

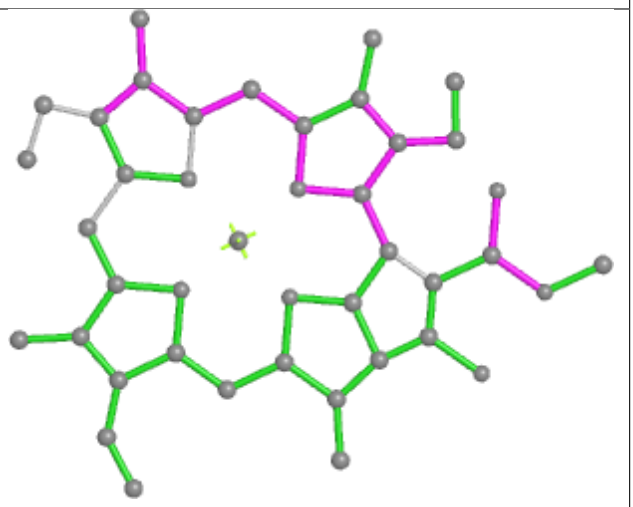


Rings

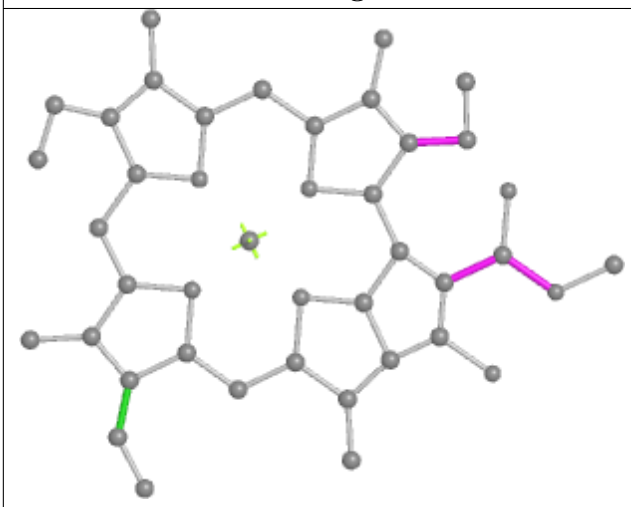
## Ligand CLA m 605



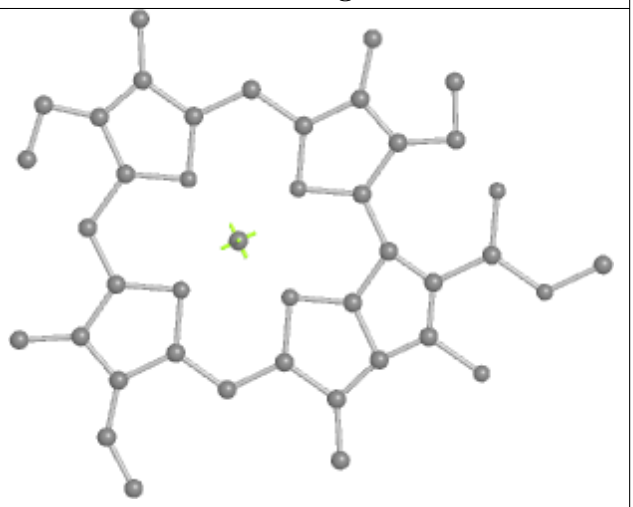
Bond lengths



Bond angles

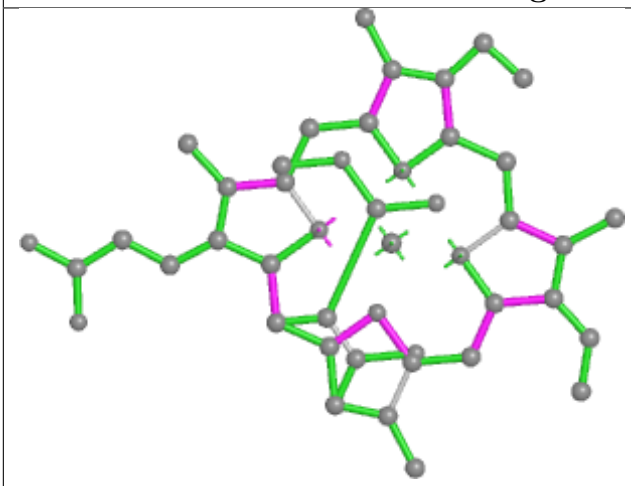


Torsions

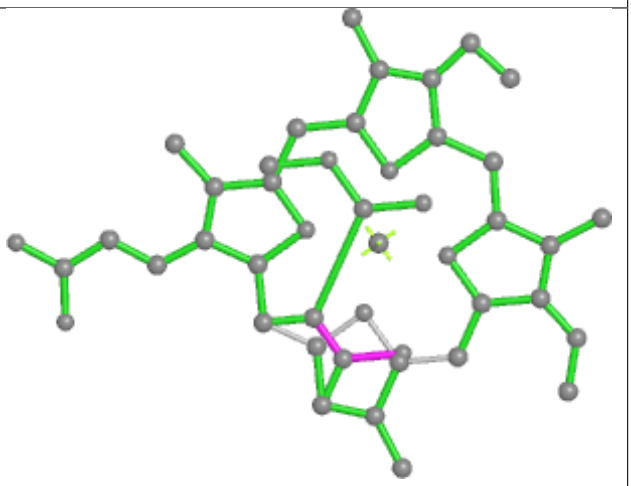


Rings

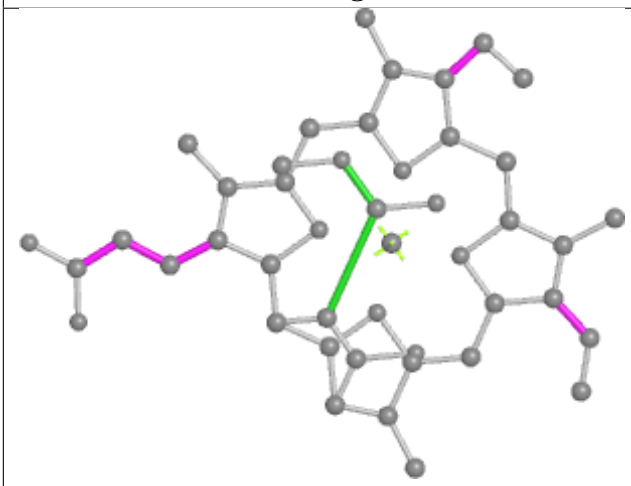
**Ligand KC2 k 613**



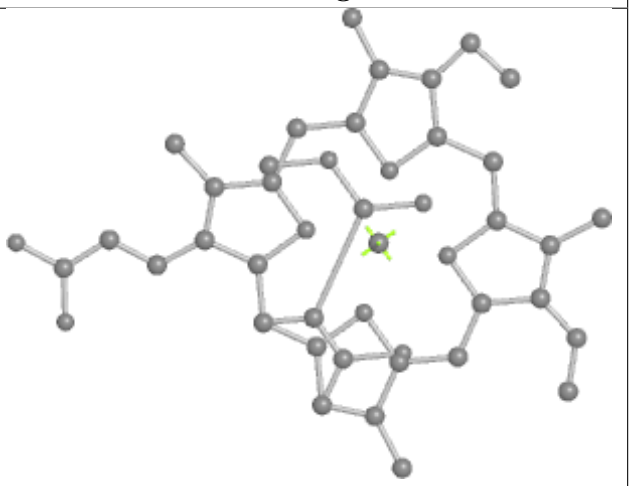
**Bond lengths**



**Bond angles**

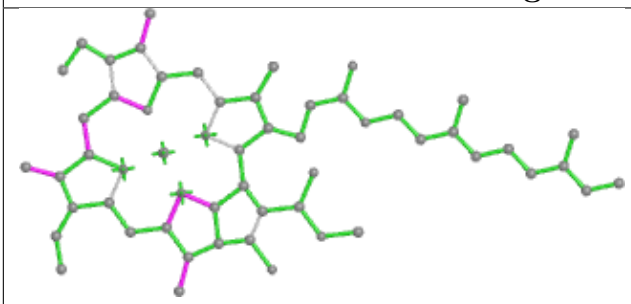


**Torsions**

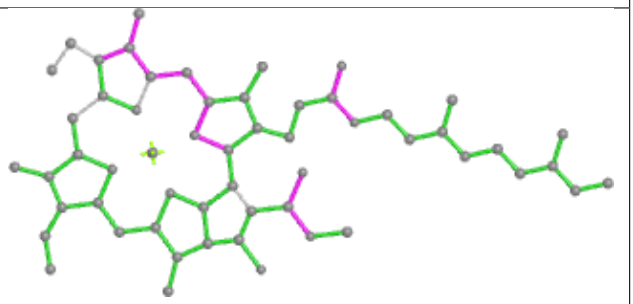


**Rings**

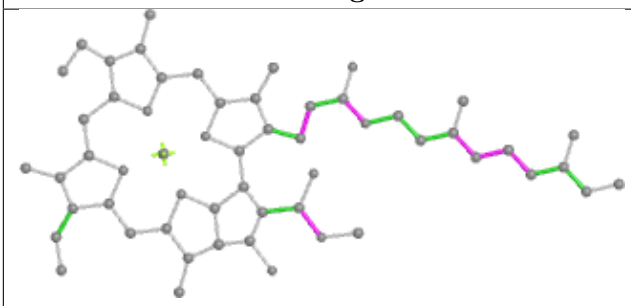
## Ligand CLA A 809



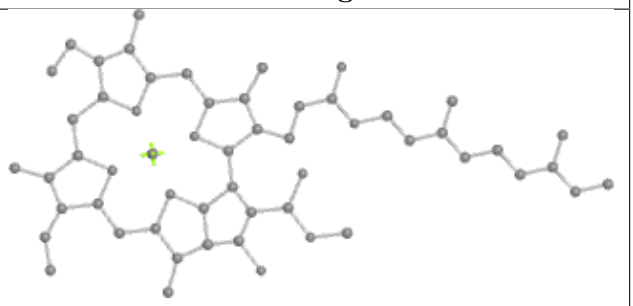
Bond lengths



Bond angles

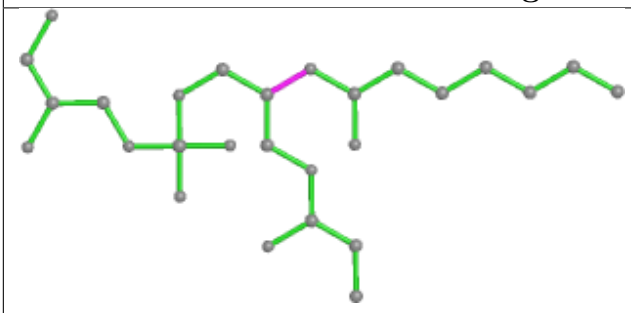


Torsions

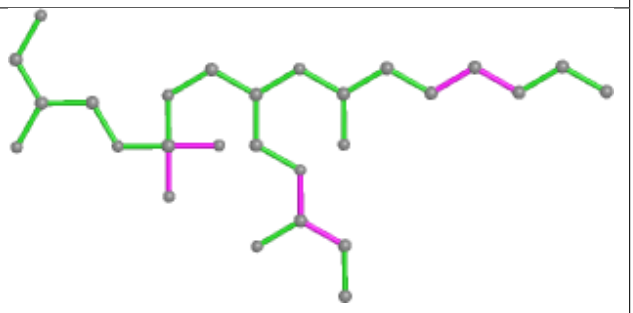


Rings

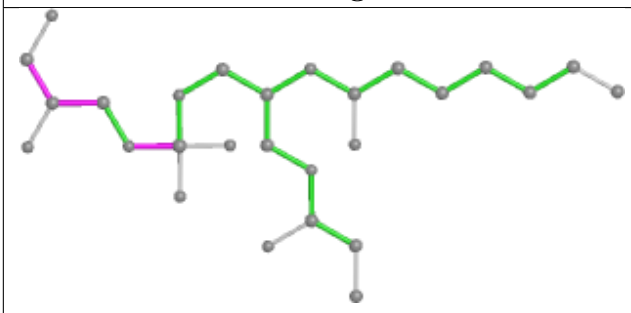
## Ligand LHG A 843



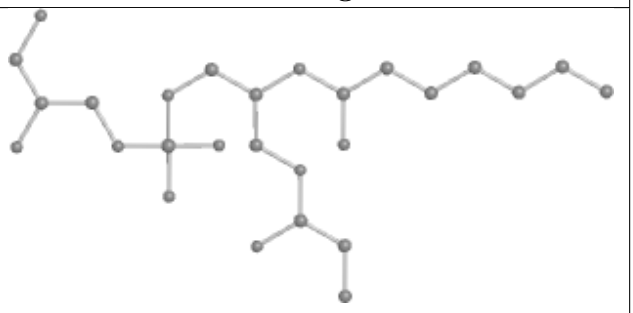
Bond lengths



Bond angles

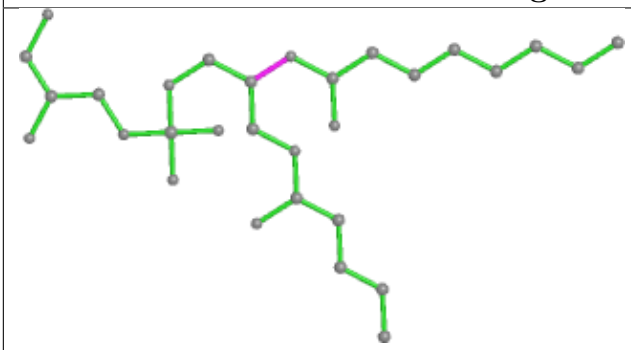


Torsions

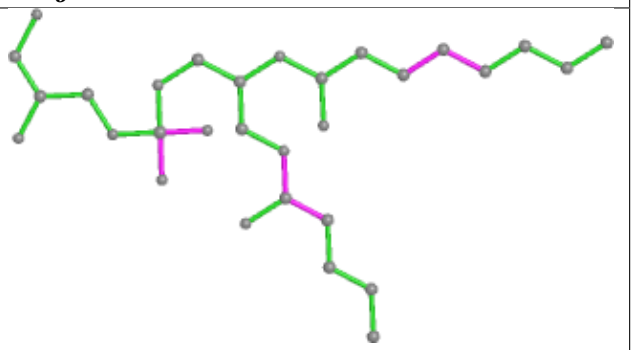


Rings

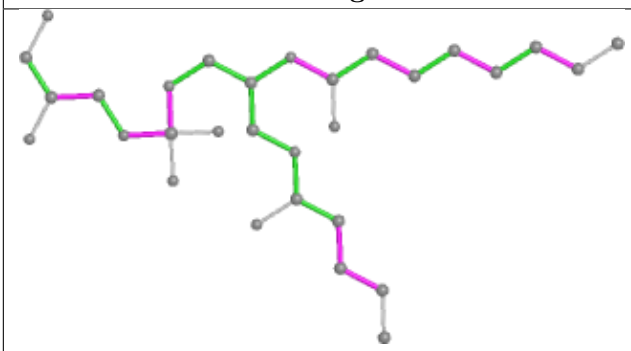
**Ligand LHG j 318**



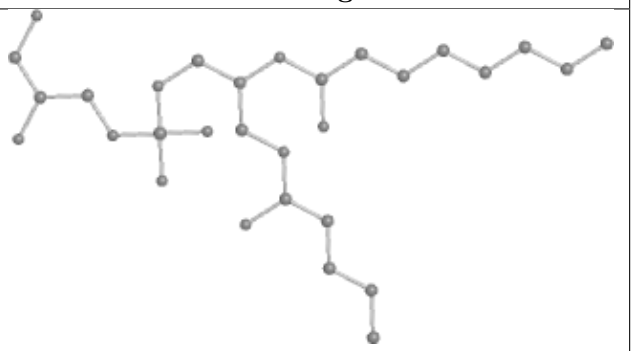
Bond lengths



Bond angles

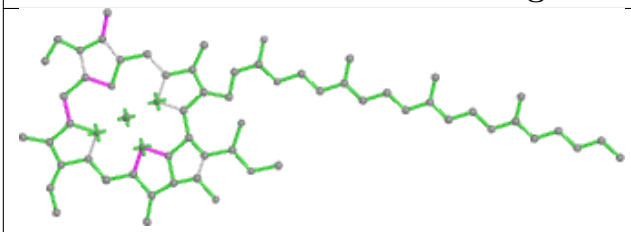


Torsions

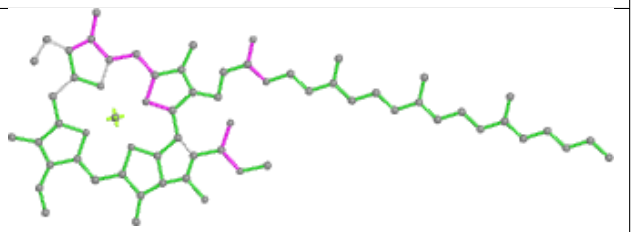


Rings

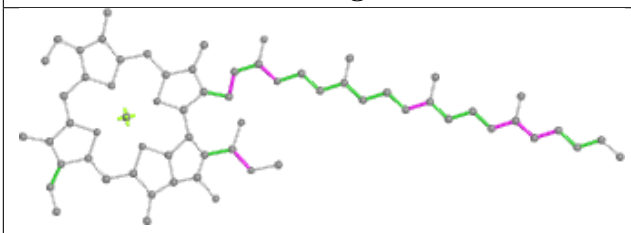
**Ligand CLA b 311**



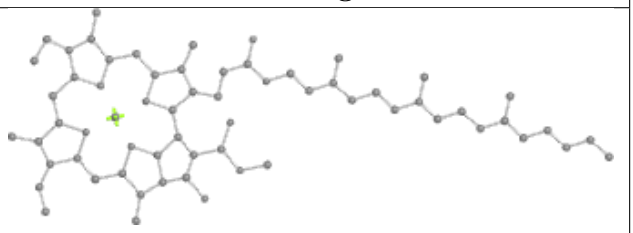
Bond lengths



Bond angles

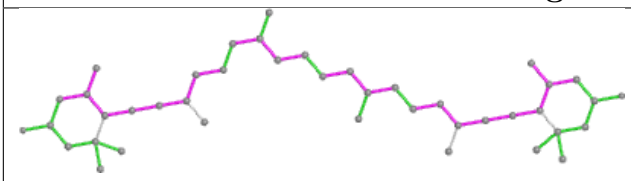


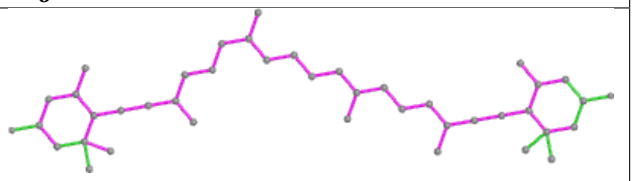
Torsions

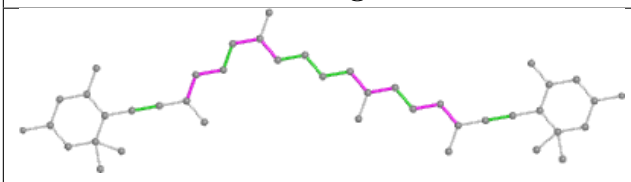


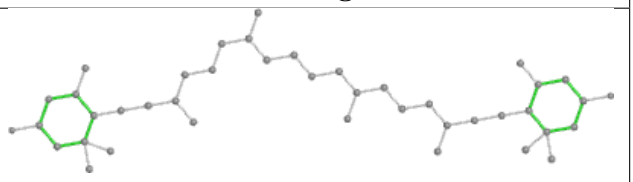
Rings

## Ligand II0 j 315

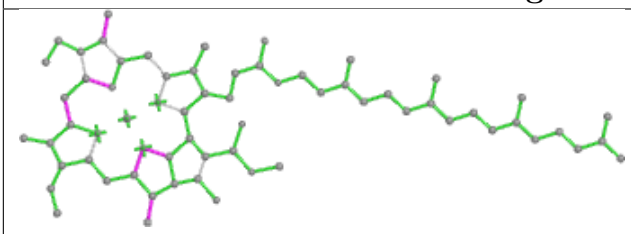

Bond lengths

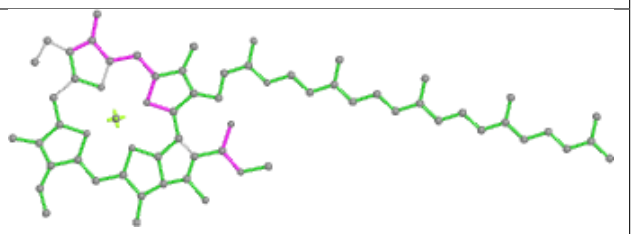

Bond angles

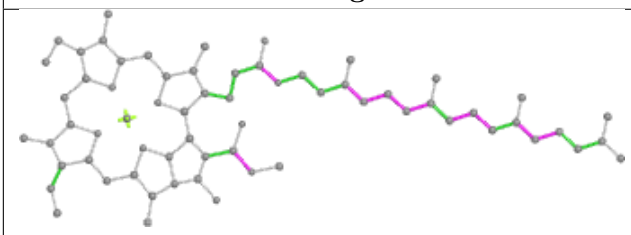

Torsions

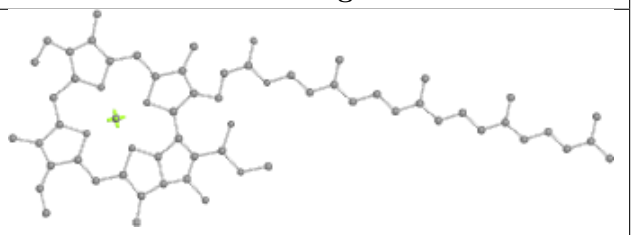

Rings

## Ligand CLA F 202

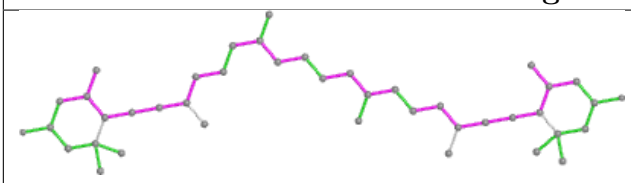

Bond lengths

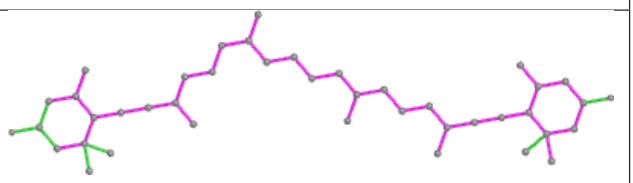

Bond angles

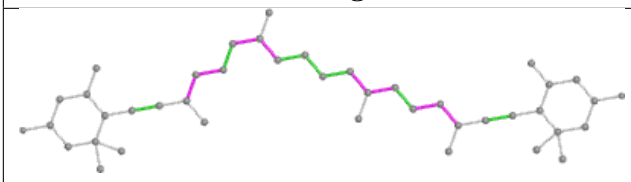

Torsions

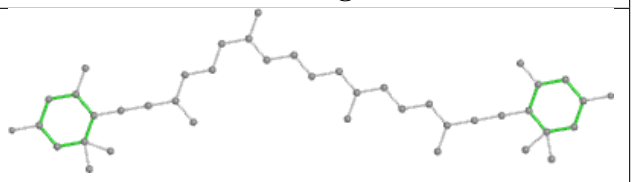

Rings

## Ligand II0 k 615

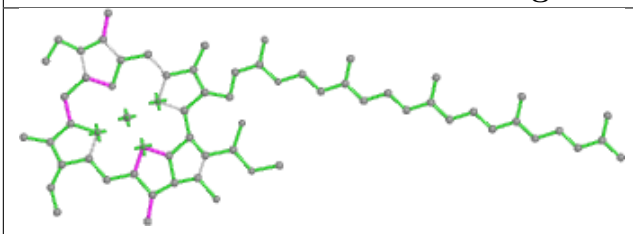

Bond lengths


Bond angles

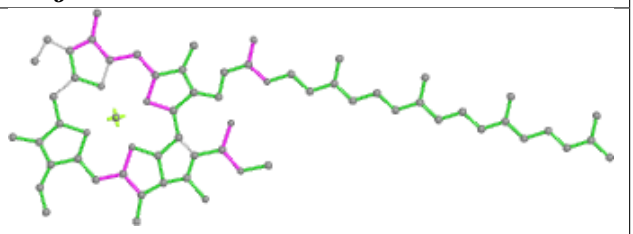

Torsions


Rings

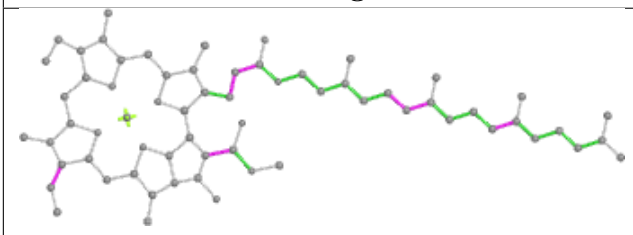
## Ligand CLA j 305



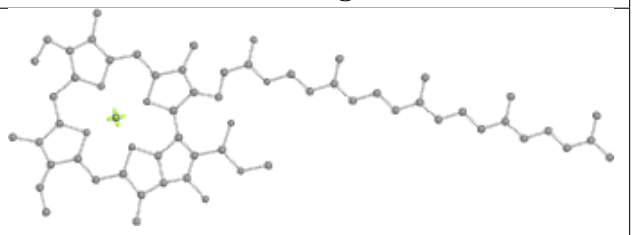
Bond lengths



Bond angles

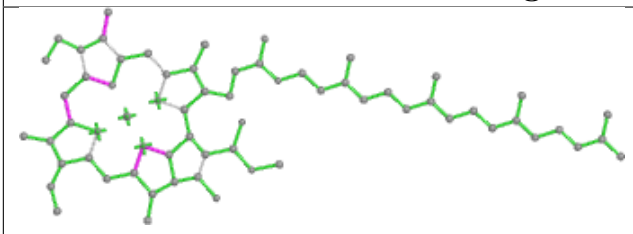


Torsions

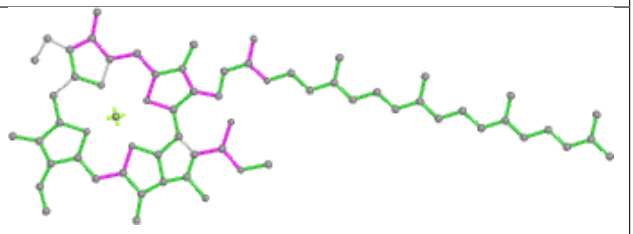


Rings

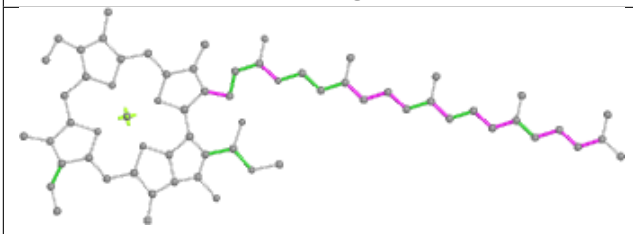
## Ligand CLA K 101



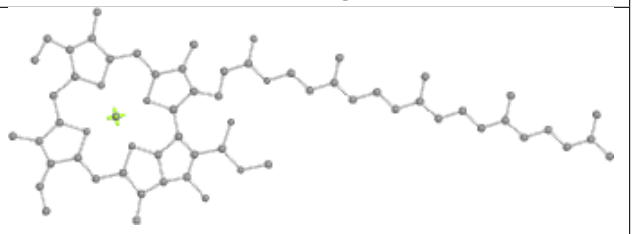
Bond lengths



Bond angles

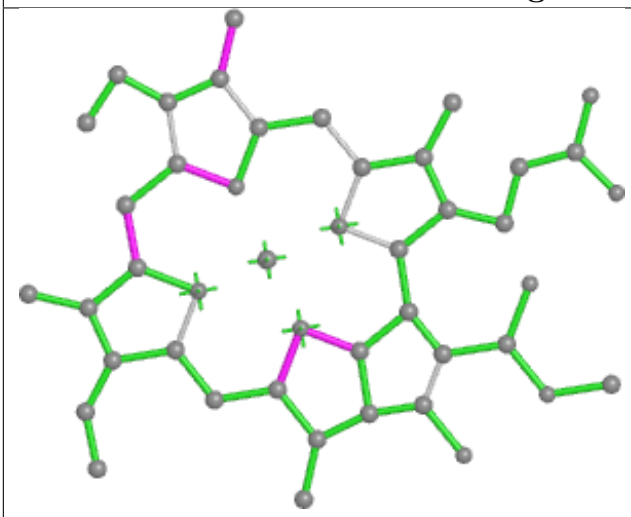


Torsions

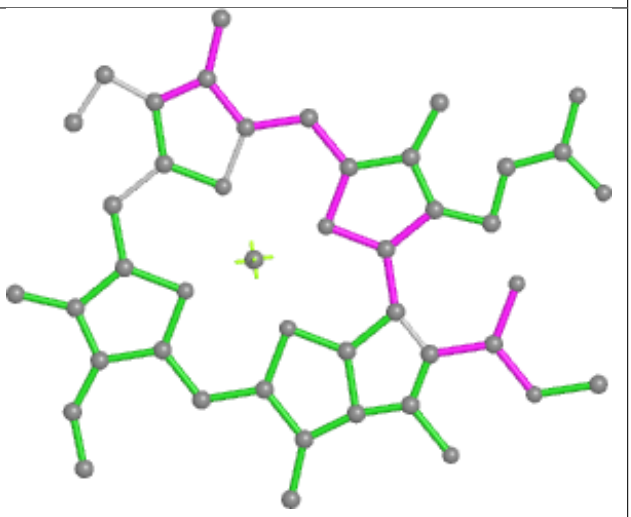


Rings

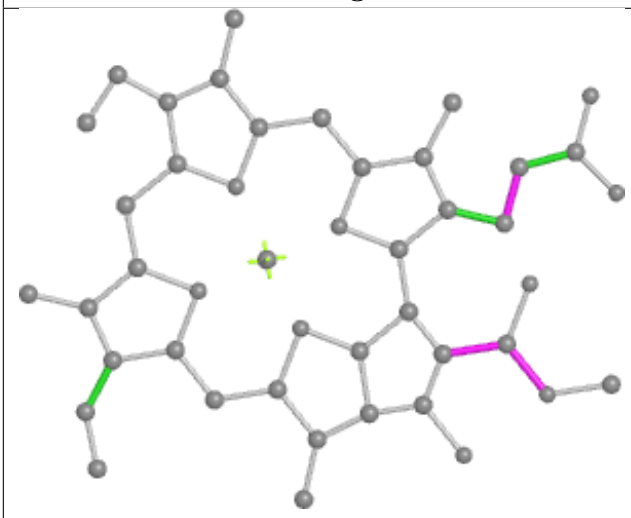
## Ligand CLA k 605



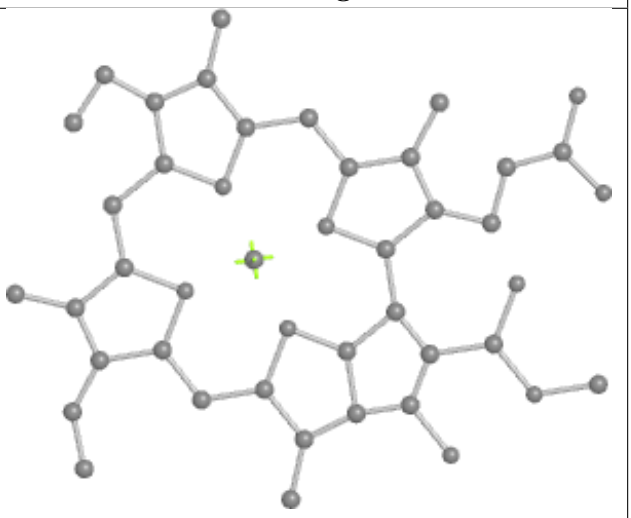
Bond lengths



Bond angles

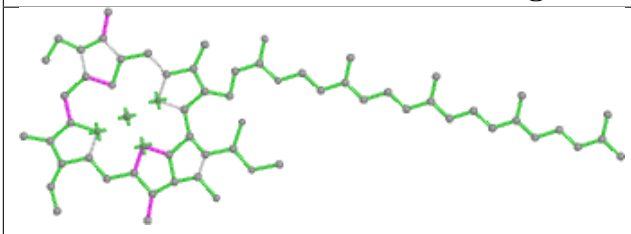


Torsions

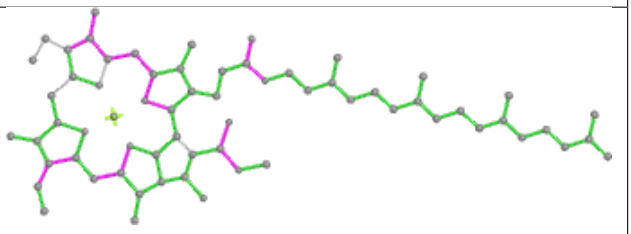


Rings

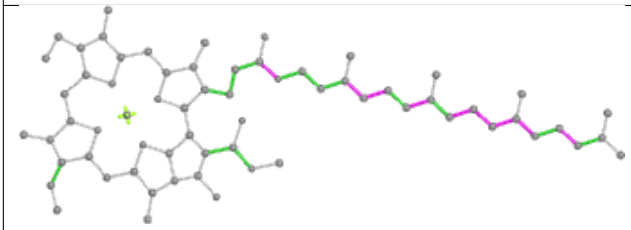
## Ligand CLA b 306



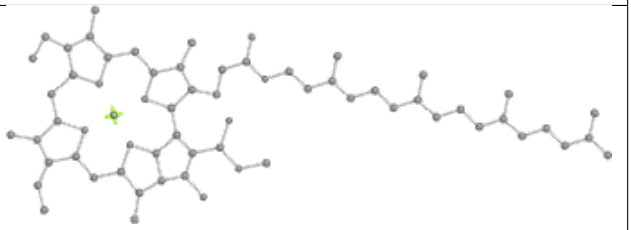
Bond lengths



Bond angles

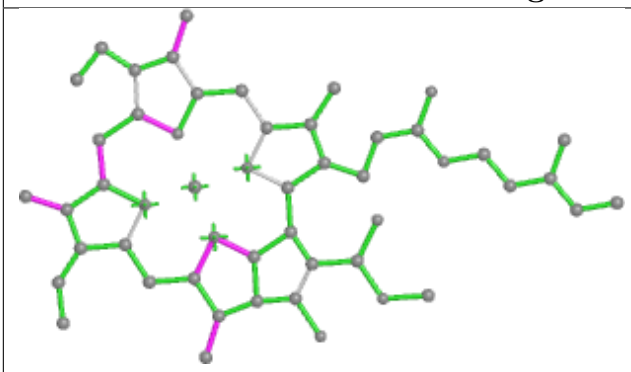


Torsions

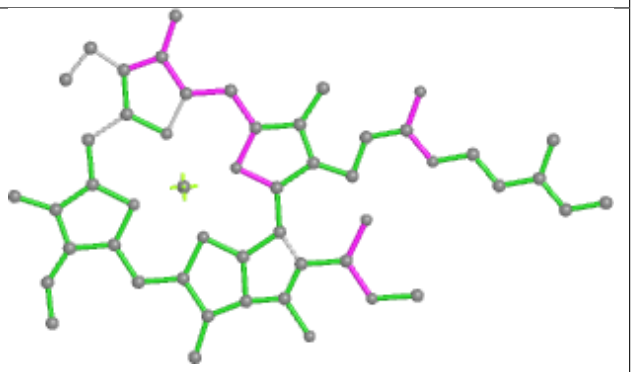


Rings

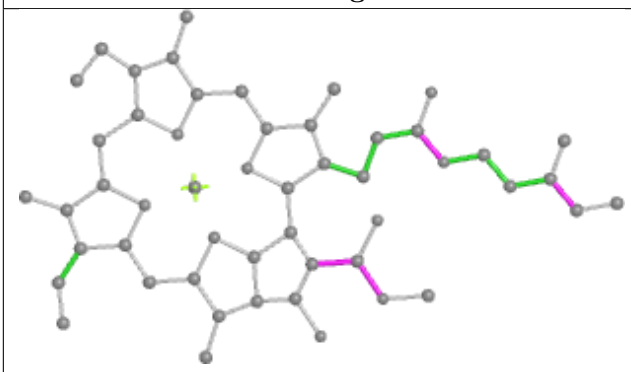
**Ligand CLA d 303**



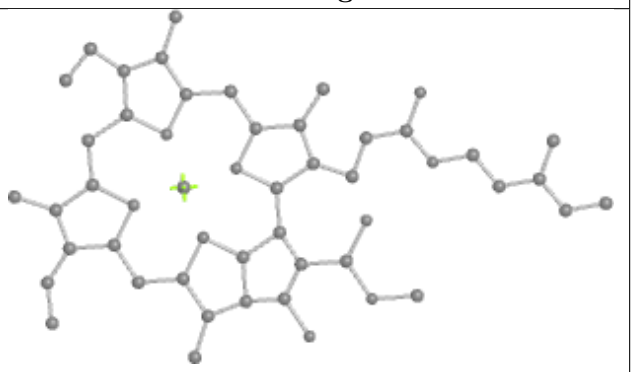
**Bond lengths**



**Bond angles**

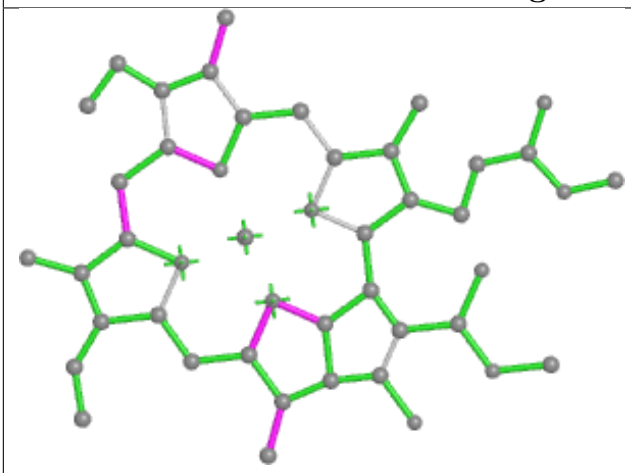


**Torsions**

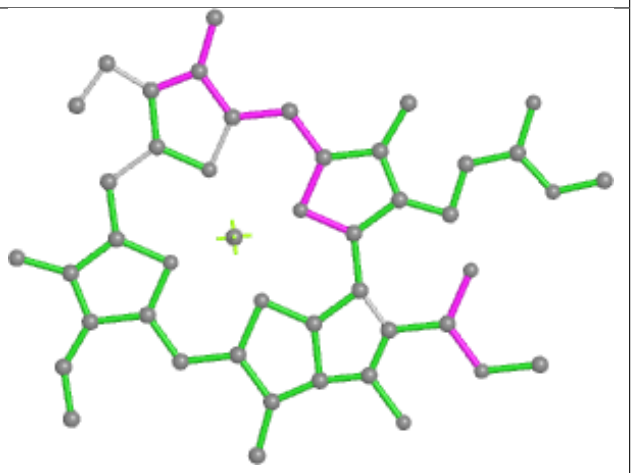


**Rings**

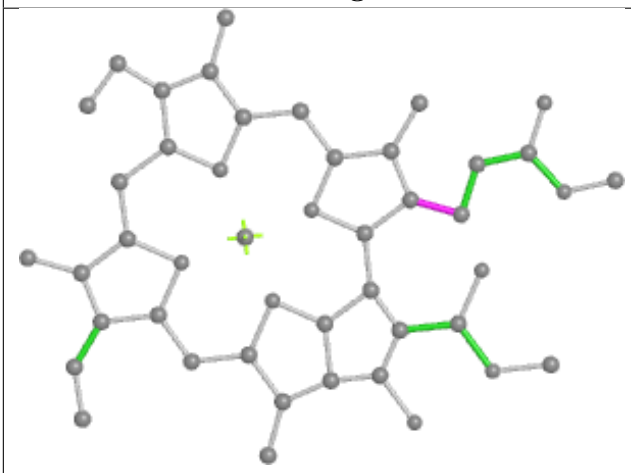
## Ligand CLA e 308



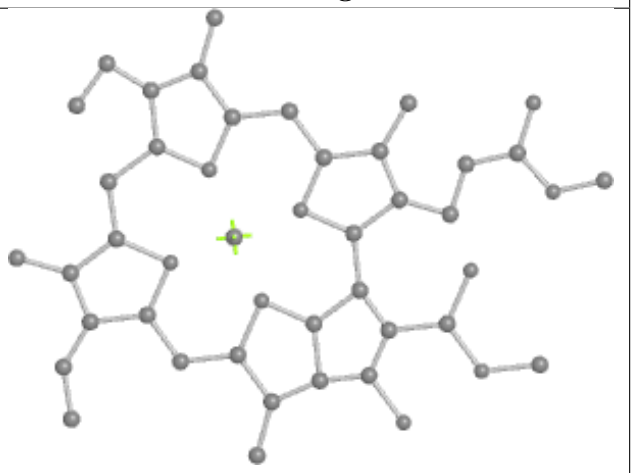
Bond lengths



Bond angles

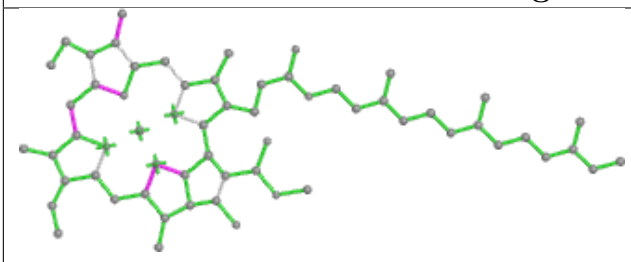


Torsions

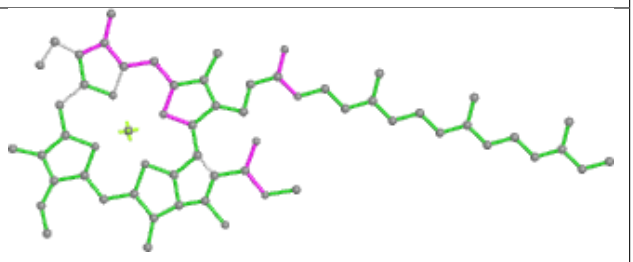


Rings

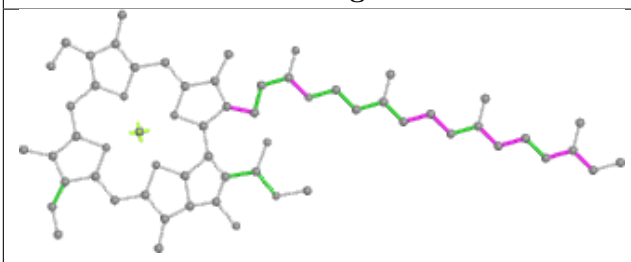
## Ligand CLA l 310



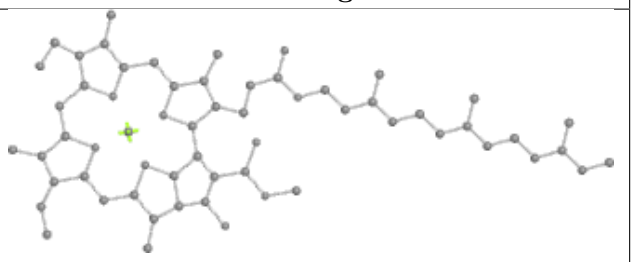
Bond lengths



Bond angles

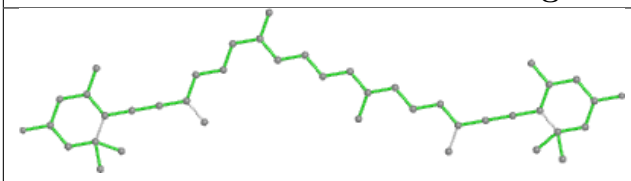


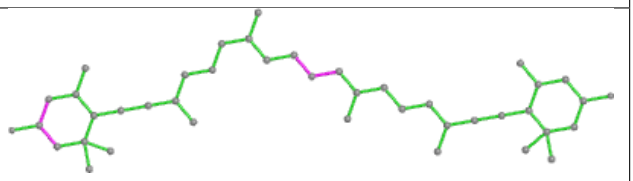
Torsions

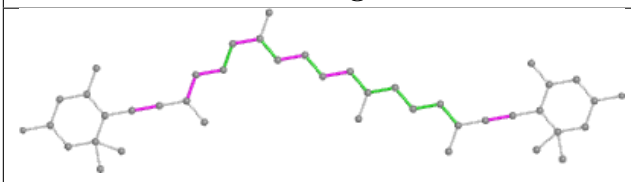


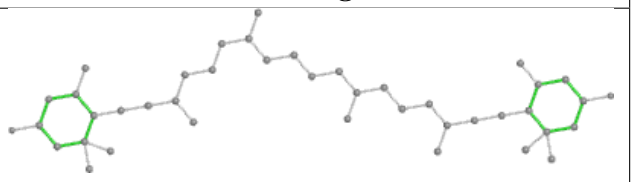
Rings

## Ligand II0 b 317

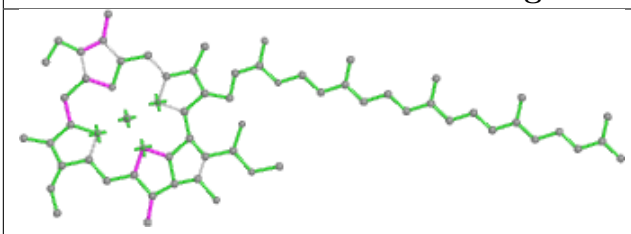

Bond lengths

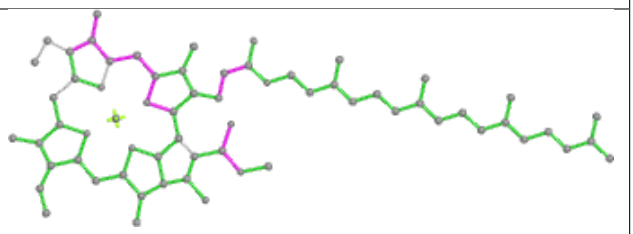

Bond angles

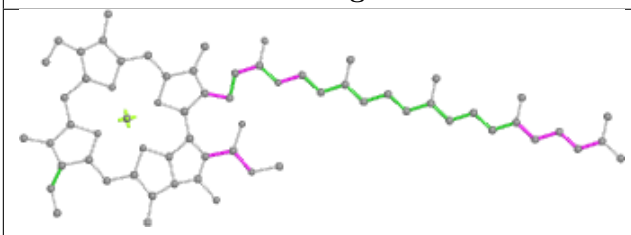

Torsions

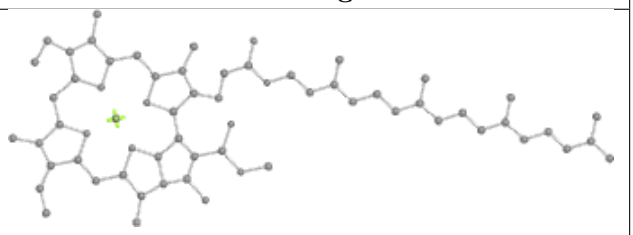

Rings

## Ligand CLA B 837

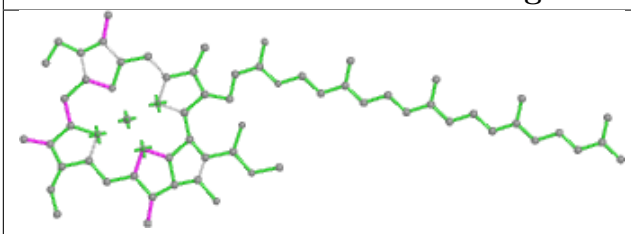

Bond lengths

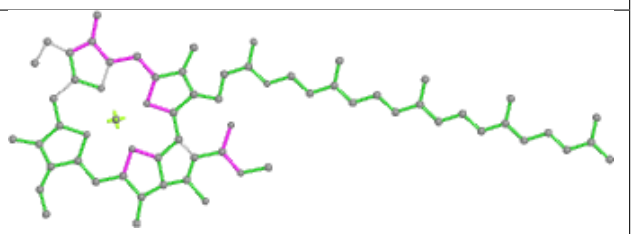

Bond angles

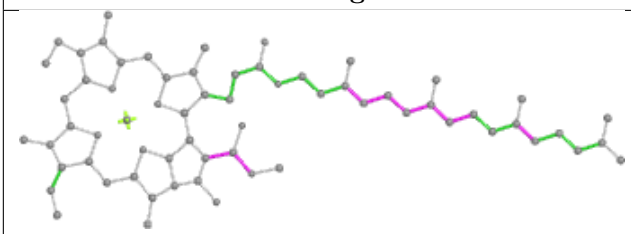

Torsions

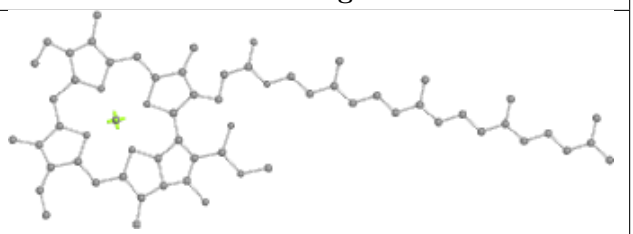

Rings

## Ligand CLA B 803

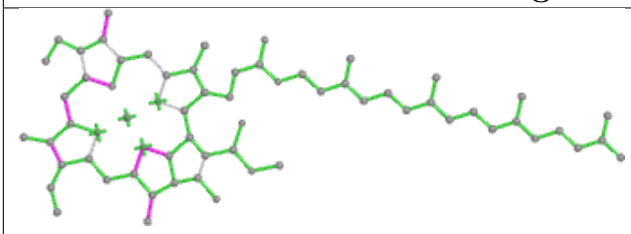

Bond lengths


Bond angles

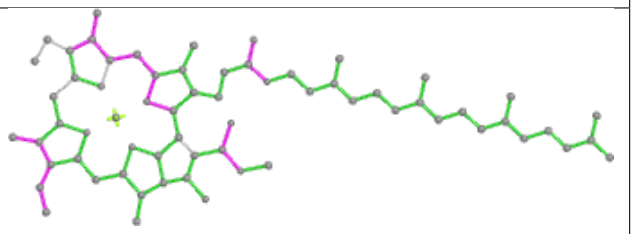

Torsions


Rings

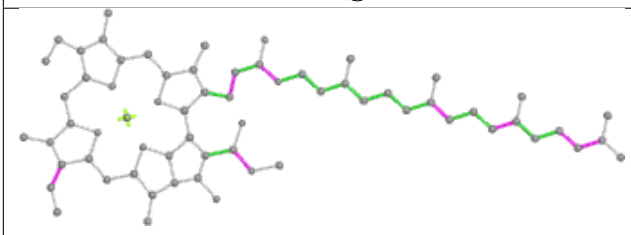
## Ligand CLA i 312



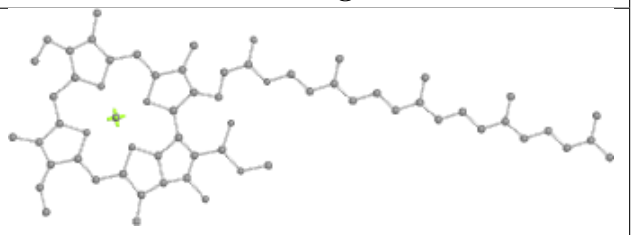
Bond lengths



Bond angles

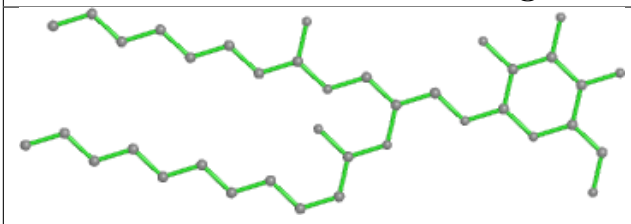


Torsions

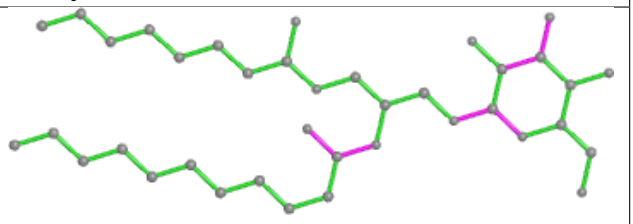


Rings

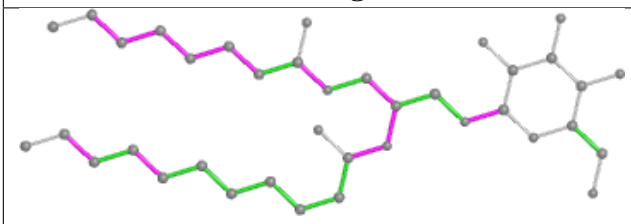
## Ligand LMG Q 301



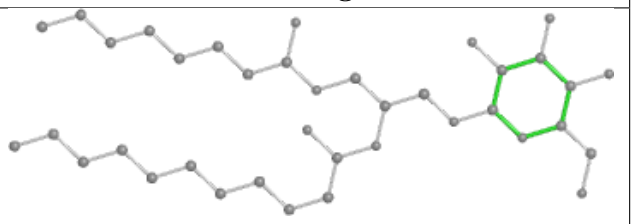
Bond lengths



Bond angles

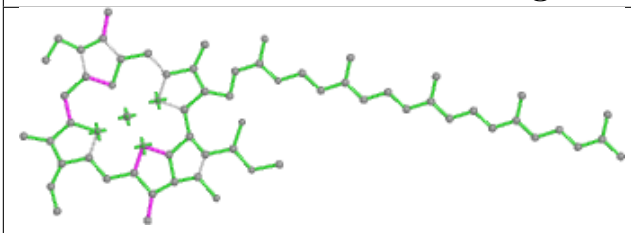


Torsions

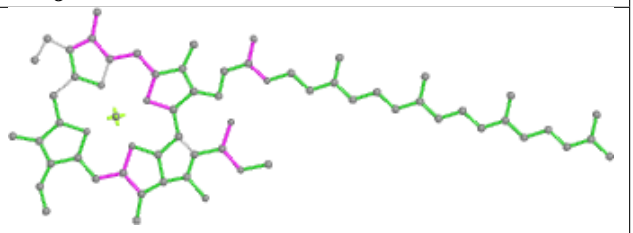


Rings

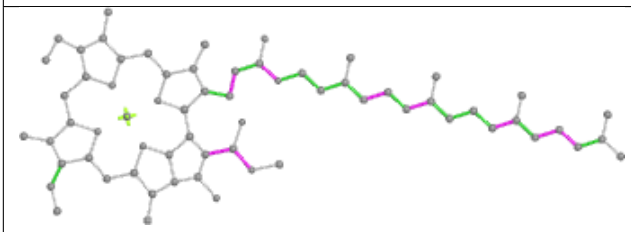
## Ligand CLA j 314



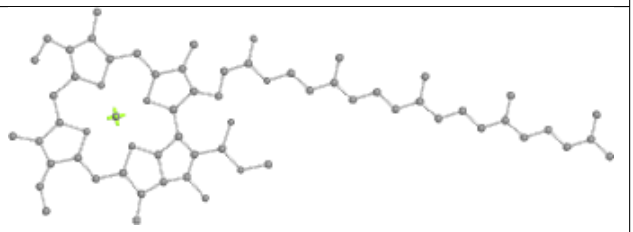
Bond lengths



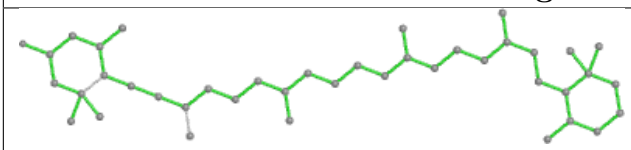
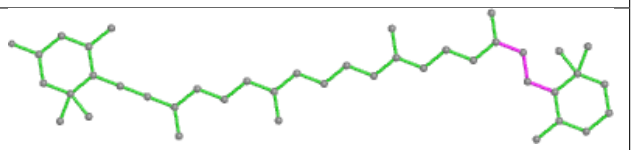
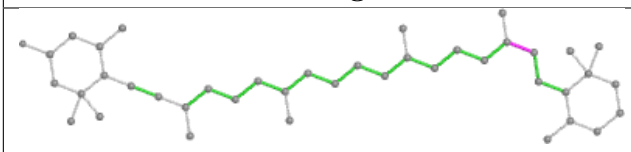
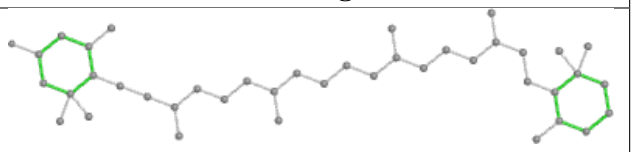
Bond angles

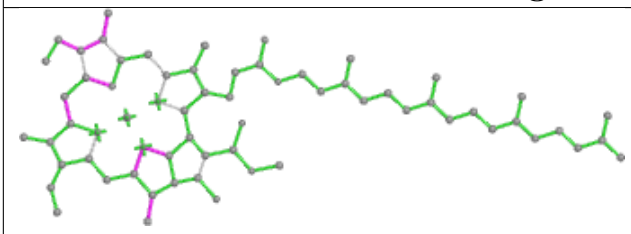
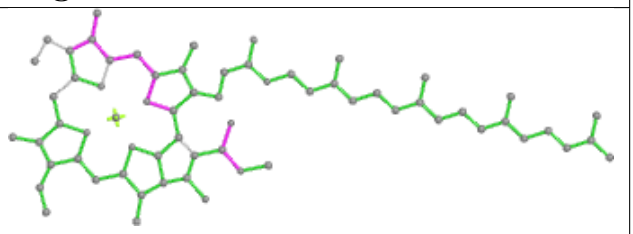
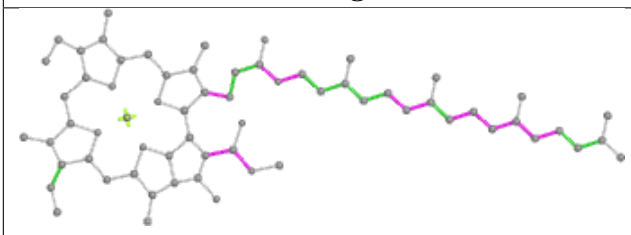
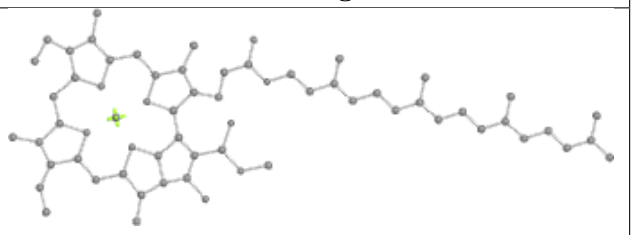


Torsions

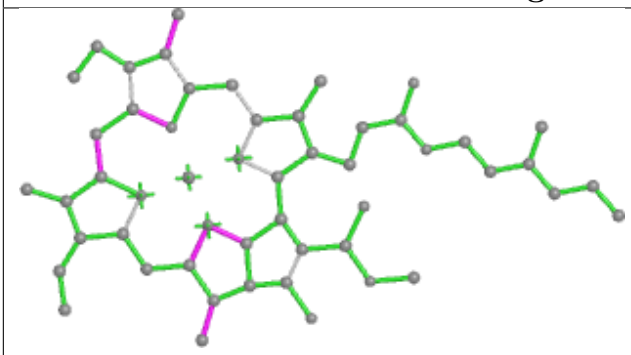


Rings

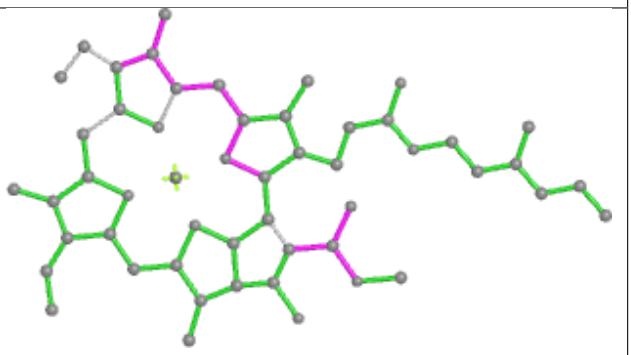
| Ligand IHT f 617 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA g 304 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

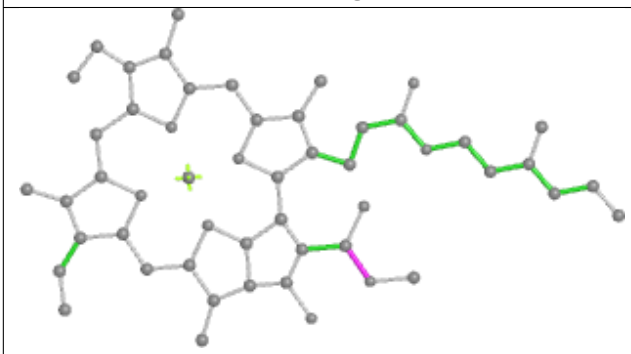
## Ligand CLA b 304



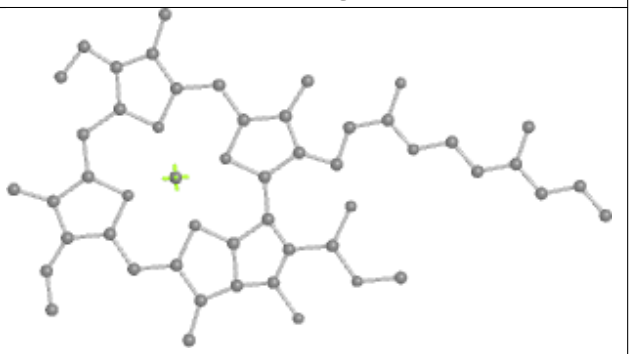
Bond lengths



Bond angles

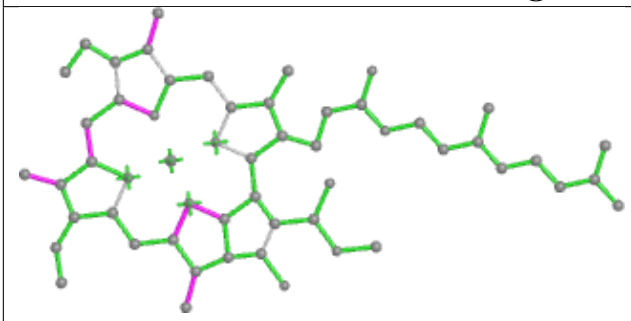


Torsions

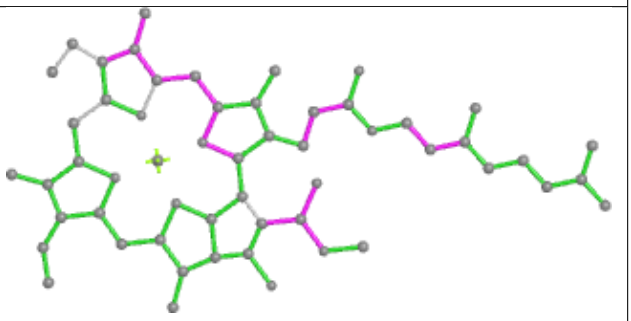


Rings

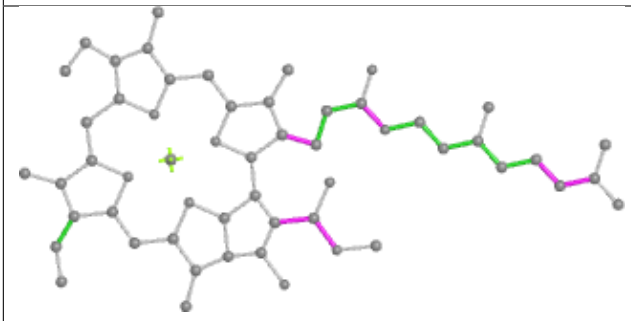
## Ligand CLA b 303



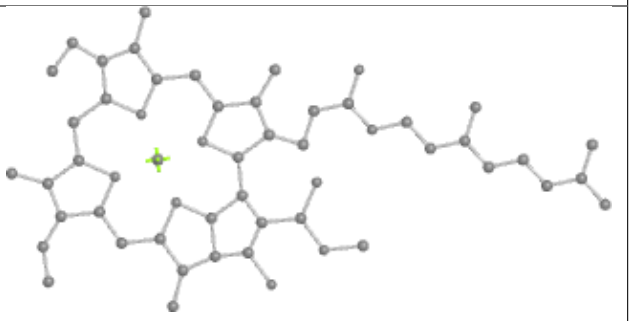
Bond lengths



Bond angles

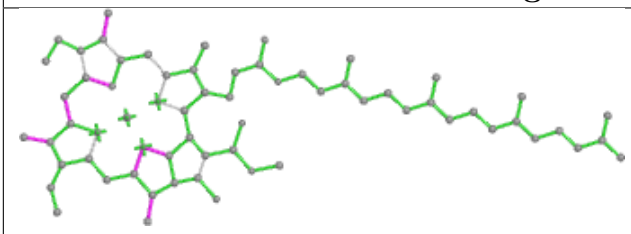


Torsions

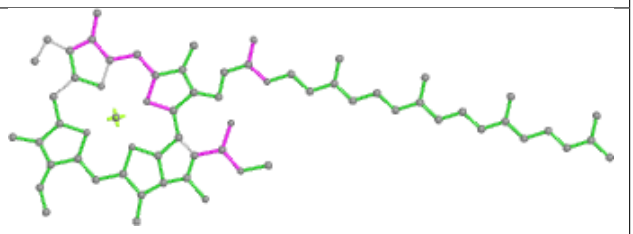


Rings

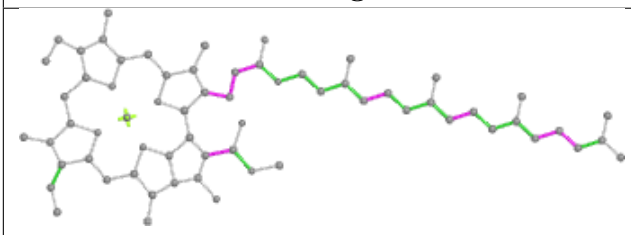
## Ligand CLA A 802



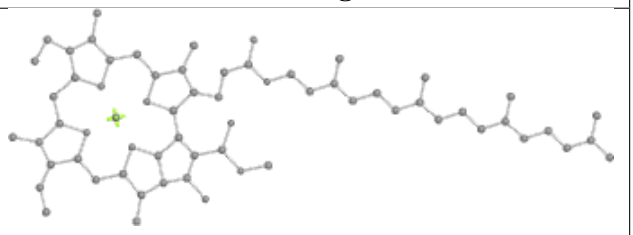
Bond lengths



Bond angles

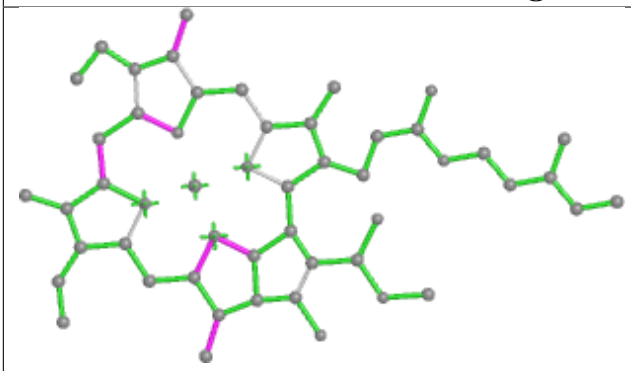


Torsions

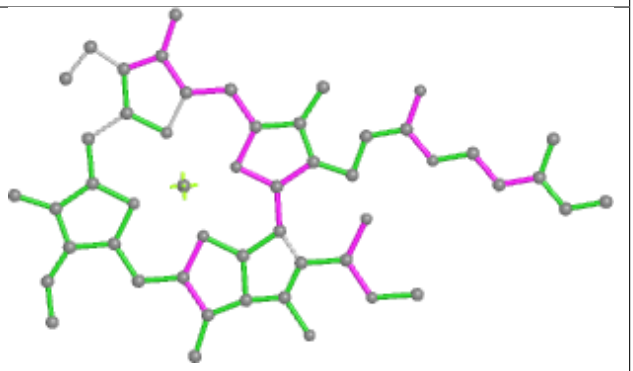


Rings

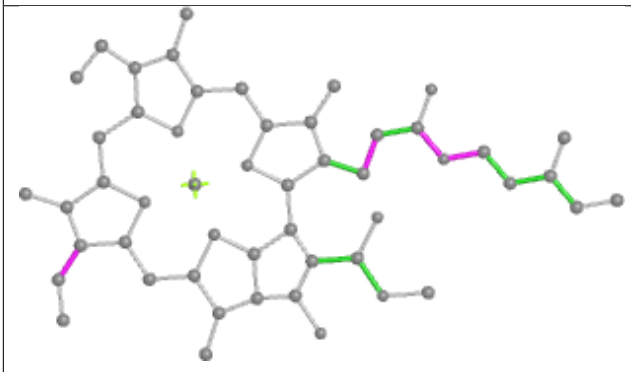
## Ligand CLA b 313



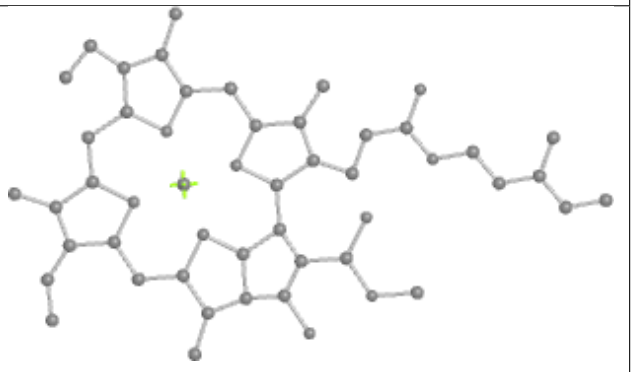
Bond lengths



Bond angles

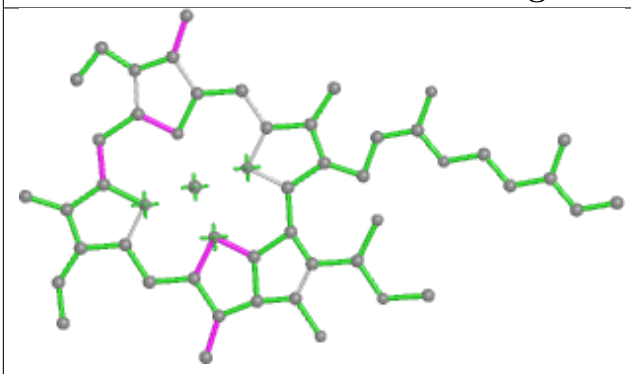


Torsions

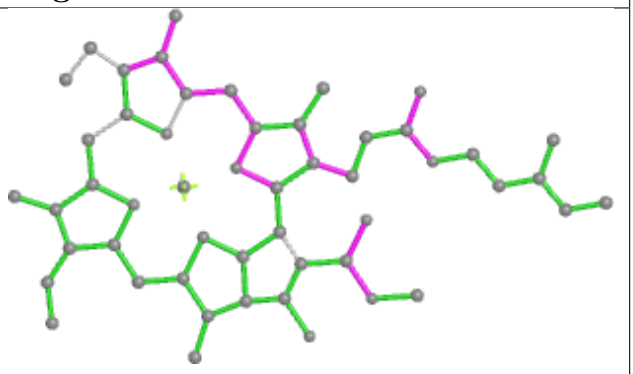


Rings

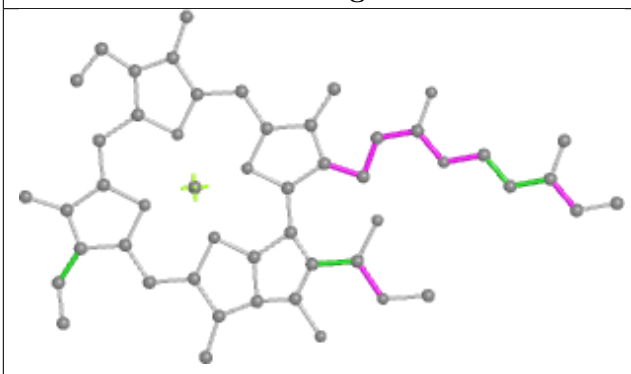
## Ligand CLA g 307



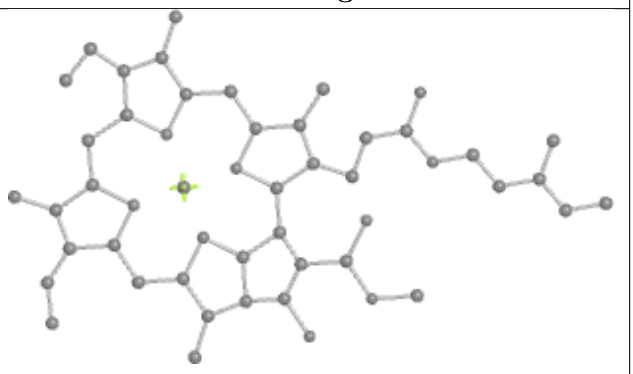
Bond lengths



Bond angles

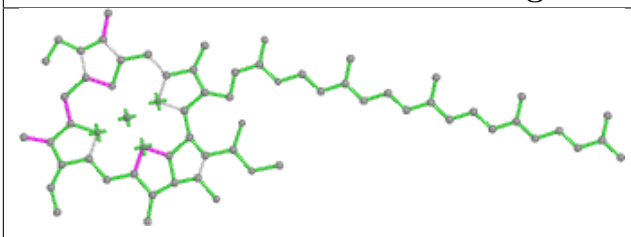


Torsions

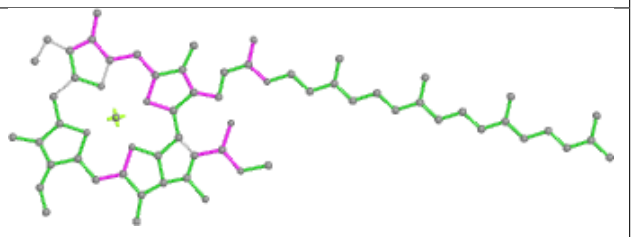


Rings

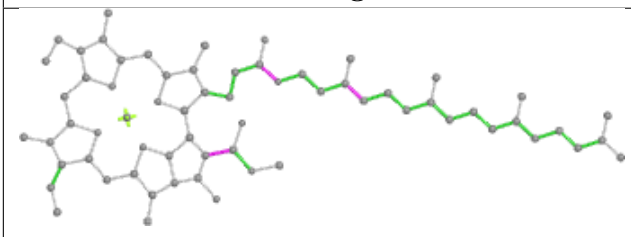
## Ligand CLA L 203



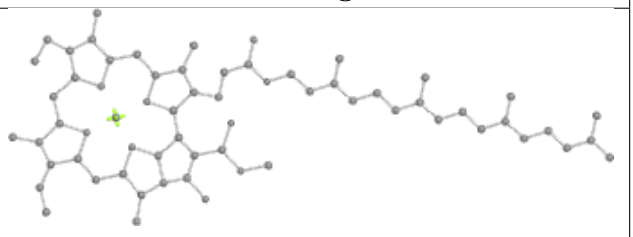
Bond lengths



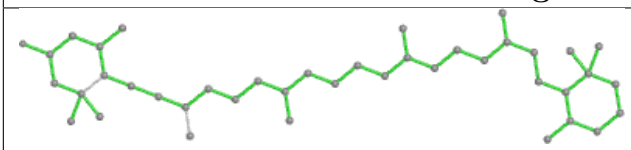
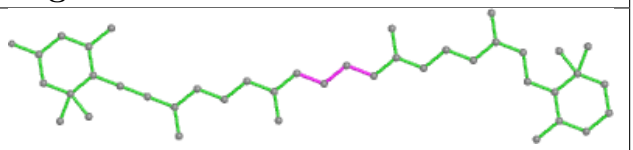
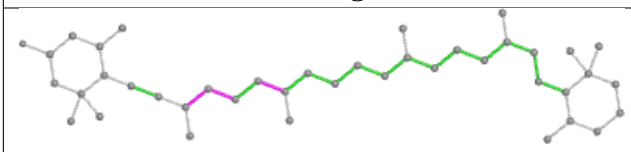
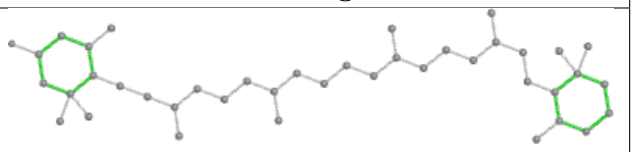
Bond angles

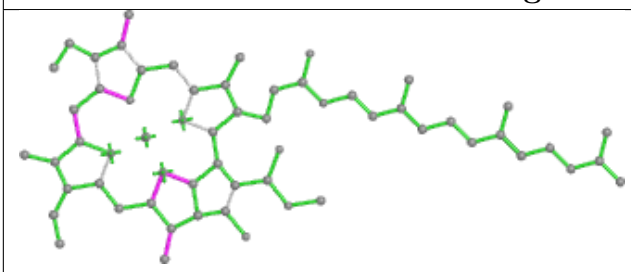
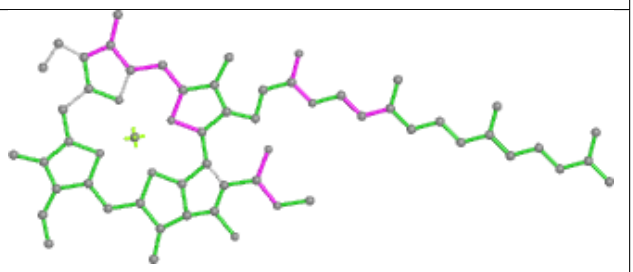
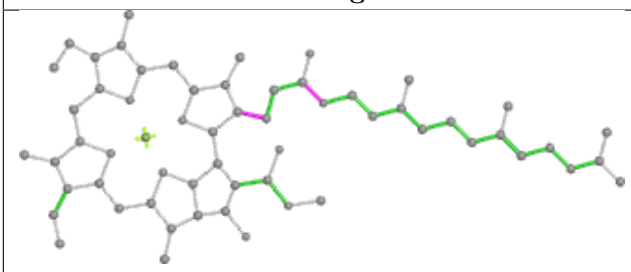
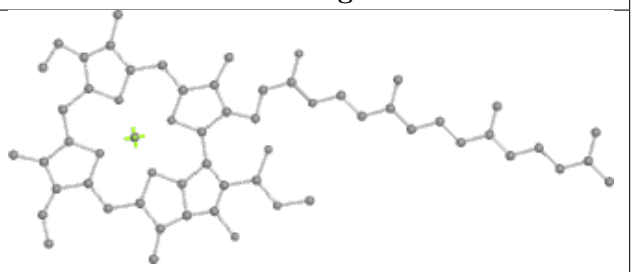


Torsions

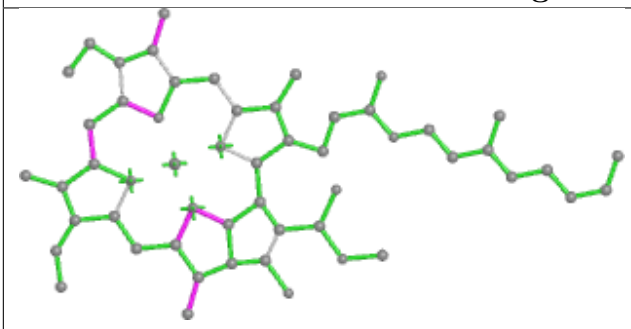


Rings

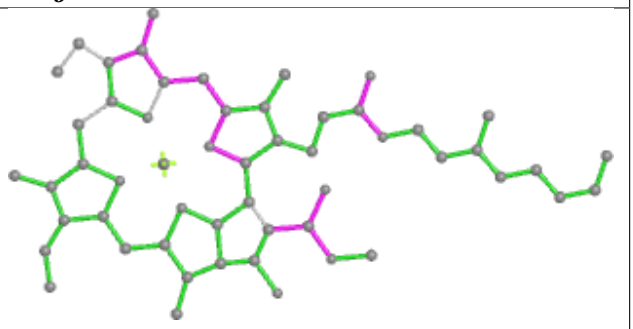
| Ligand IHT g 320 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA A 839 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

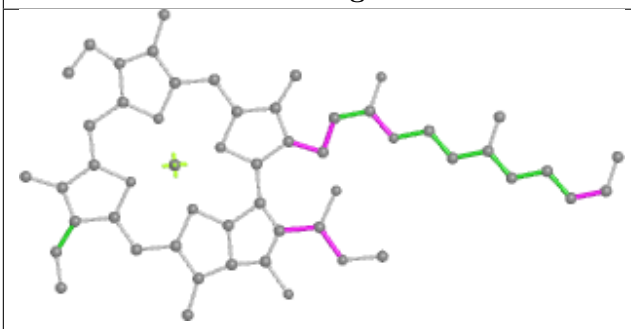
**Ligand CLA j 303**



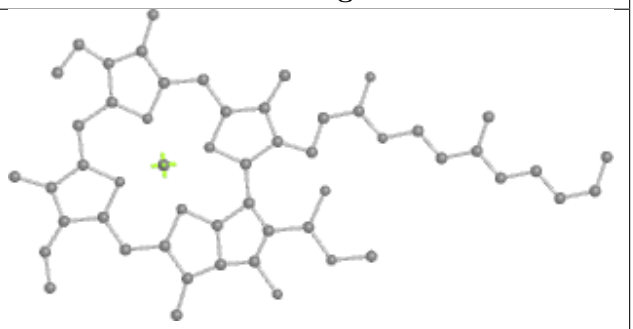
**Bond lengths**



**Bond angles**

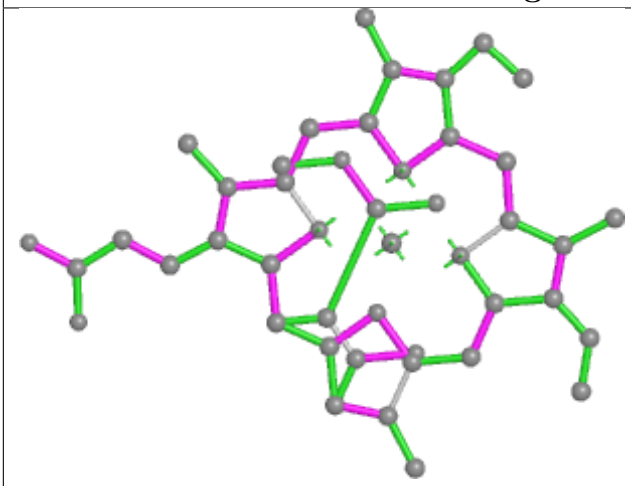


**Torsions**

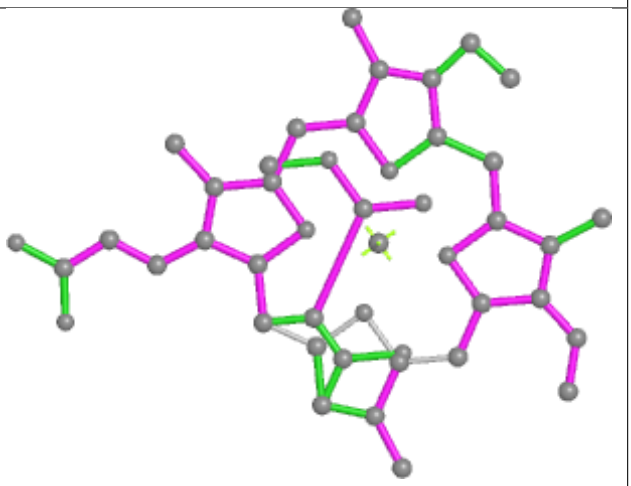


**Rings**

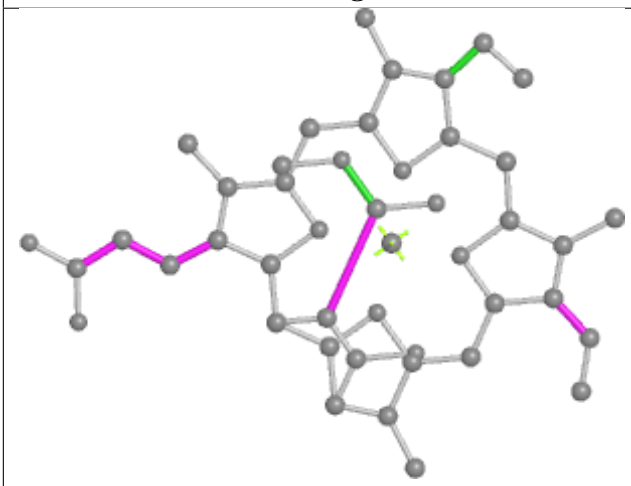
**Ligand KC2 m 611**



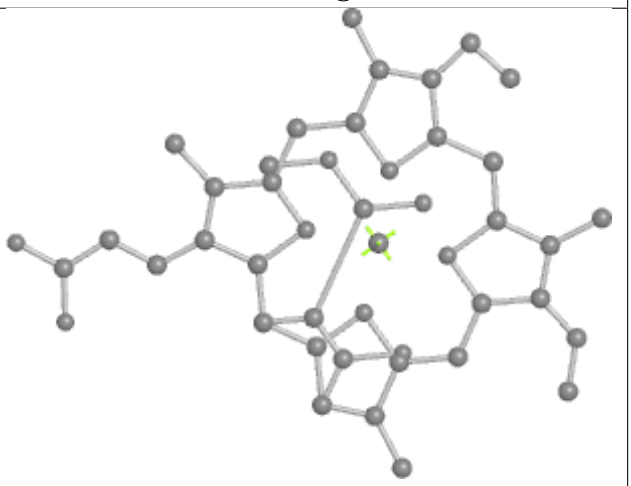
Bond lengths



Bond angles

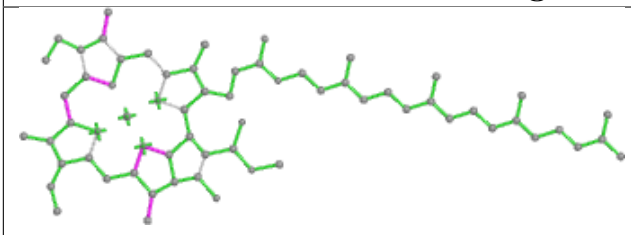


Torsions

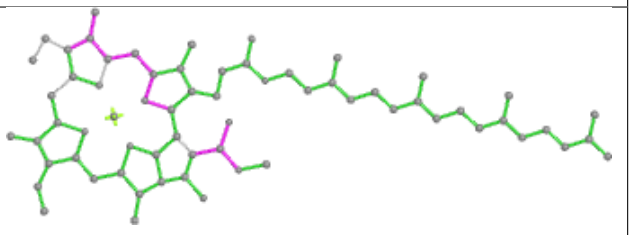


Rings

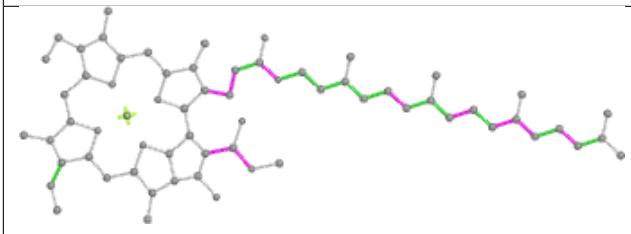
**Ligand CLA a 307**



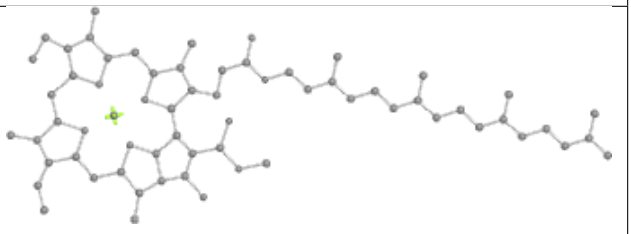
Bond lengths



Bond angles

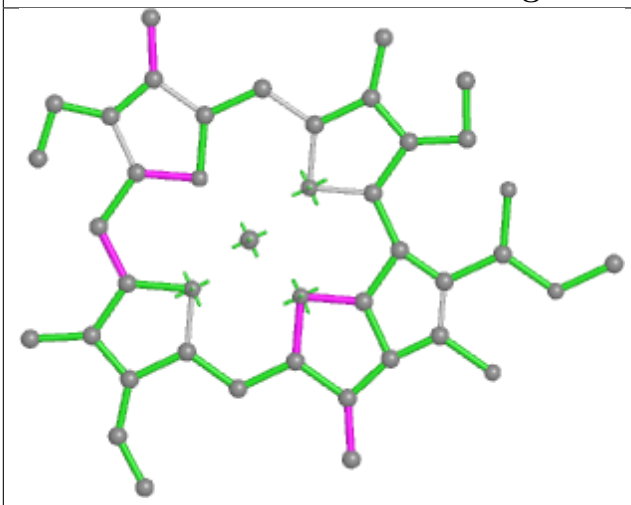


Torsions

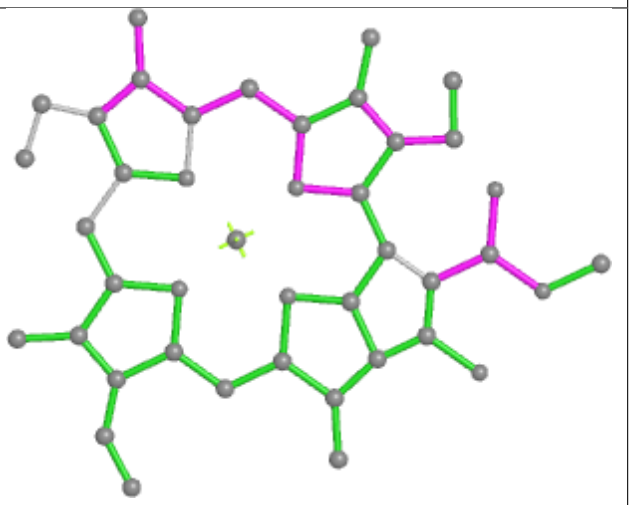


Rings

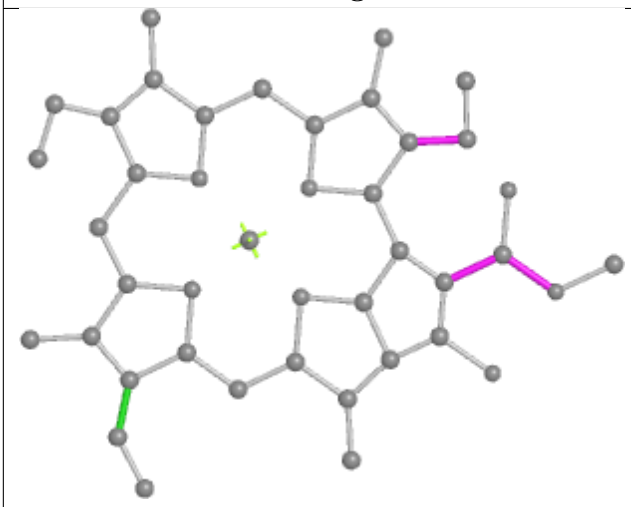
**Ligand CLA m 601**



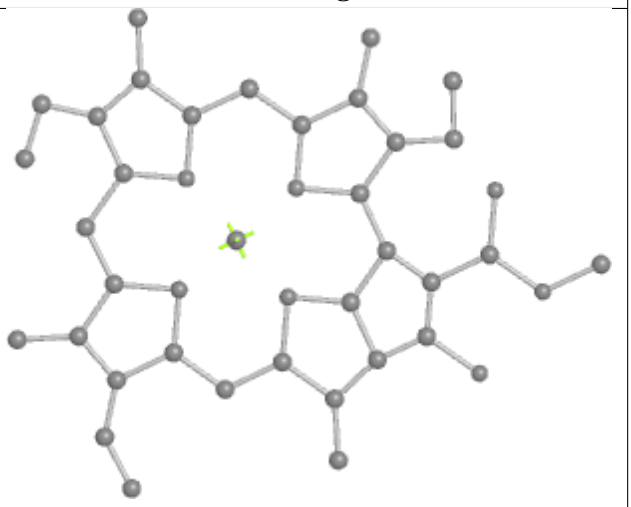
**Bond lengths**



**Bond angles**

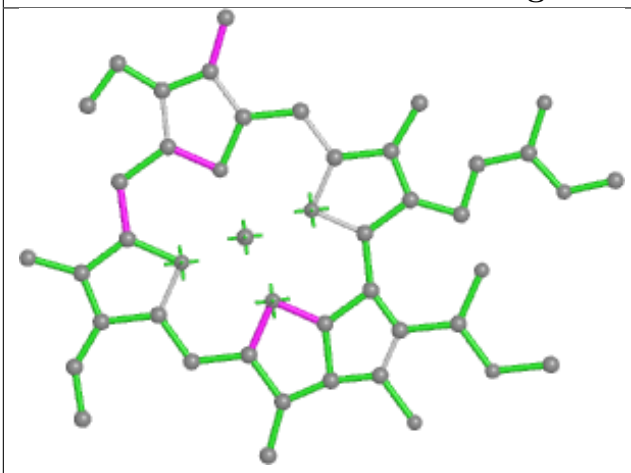


**Torsions**

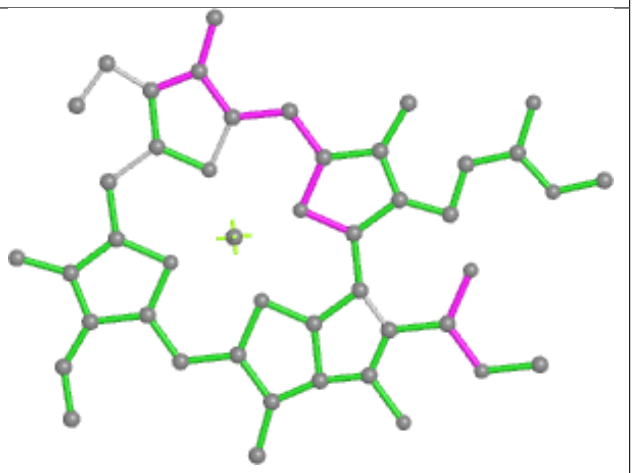


**Rings**

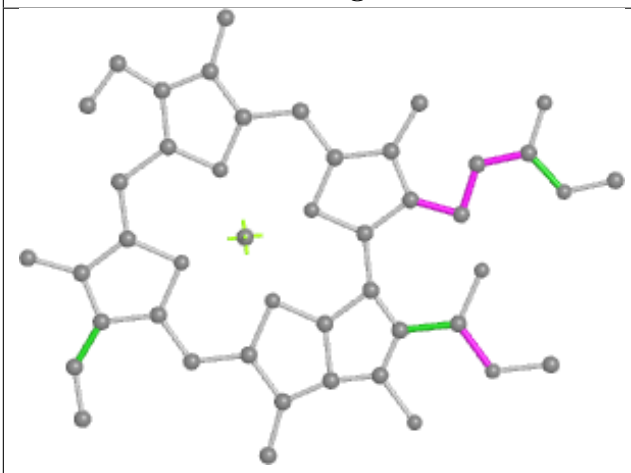
## Ligand CLA d 308



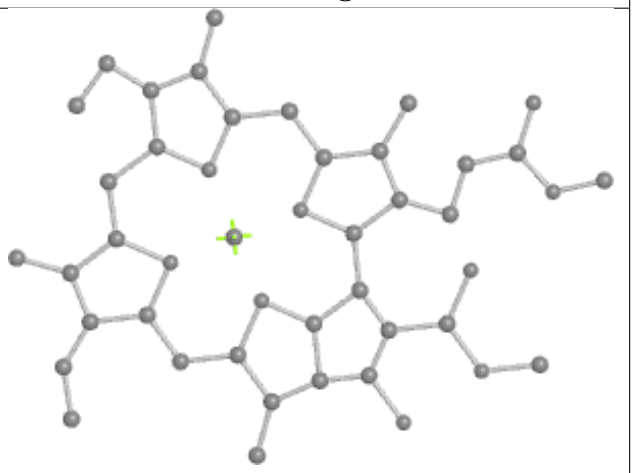
Bond lengths



Bond angles

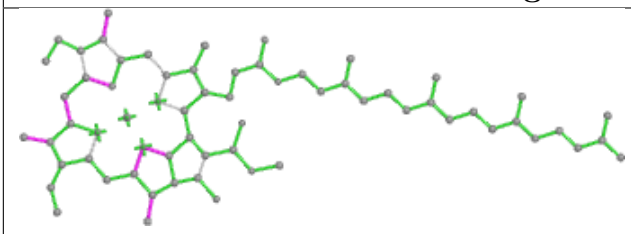


Torsions

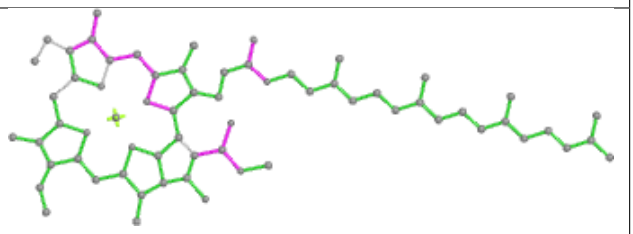


Rings

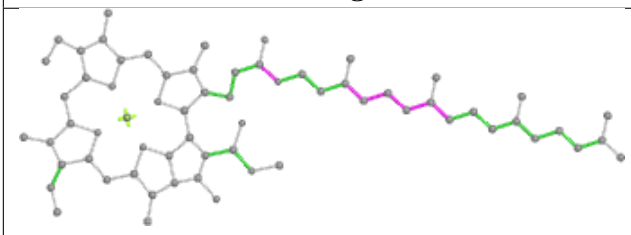
## Ligand CLA A 826



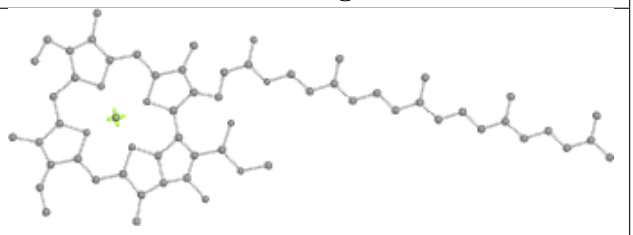
Bond lengths



Bond angles

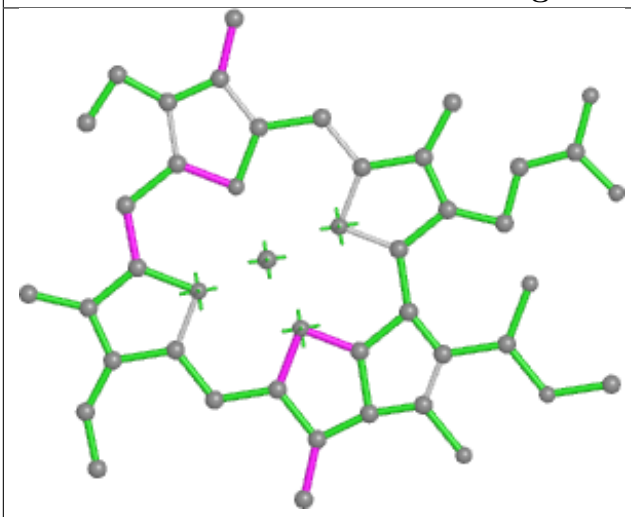


Torsions

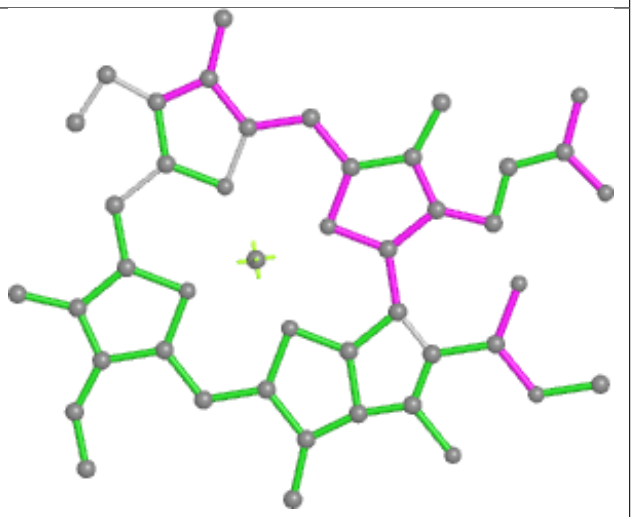


Rings

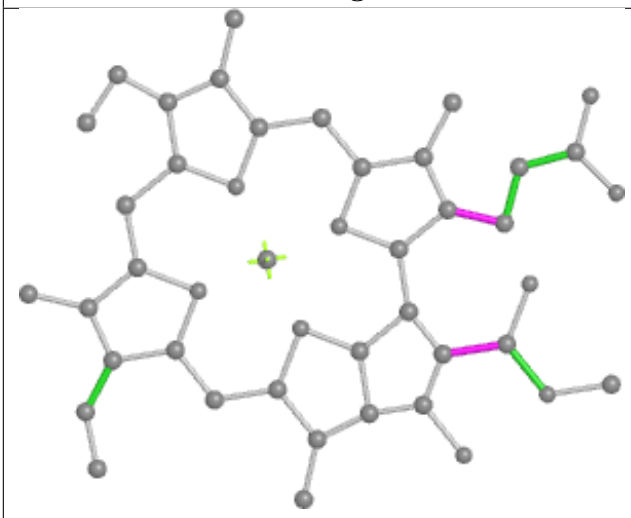
## Ligand CLA f 605



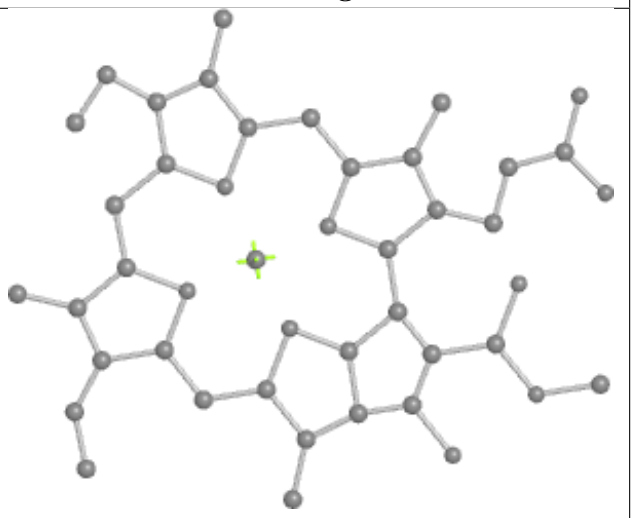
Bond lengths



Bond angles

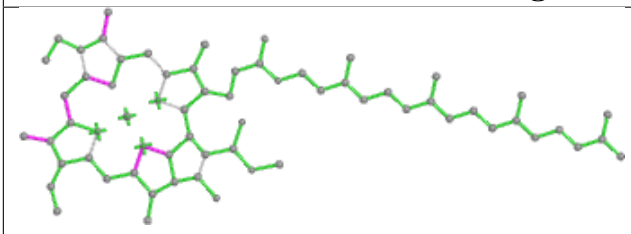


Torsions

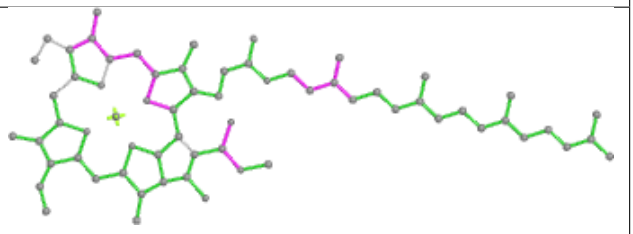


Rings

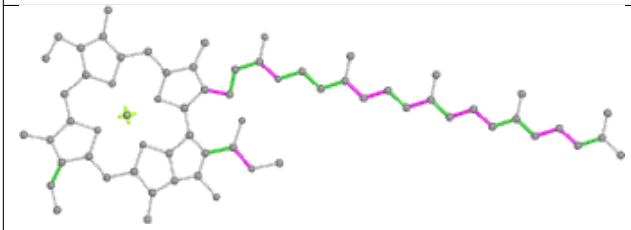
## Ligand CLA c 308



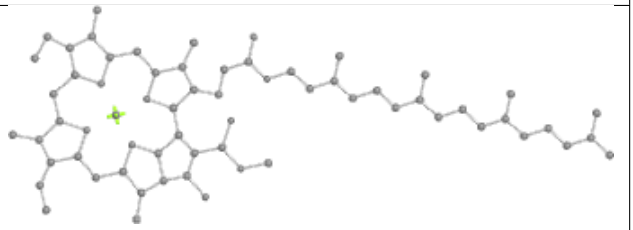
Bond lengths



Bond angles

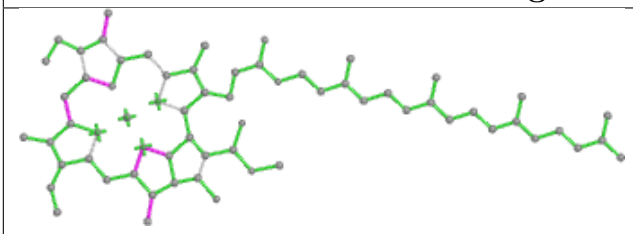


Torsions

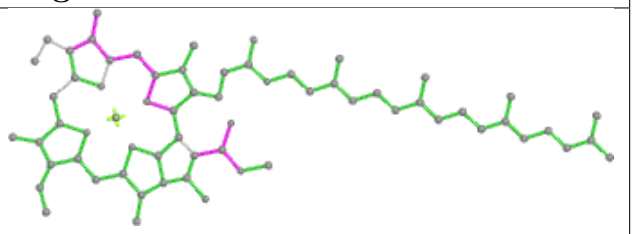


Rings

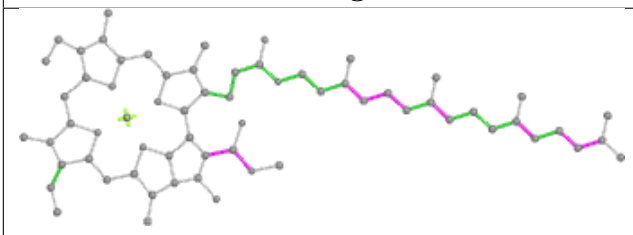
## Ligand CLA g 310



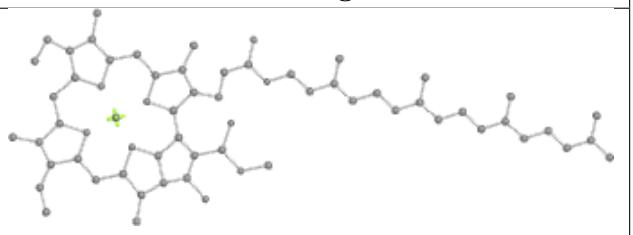
Bond lengths



Bond angles

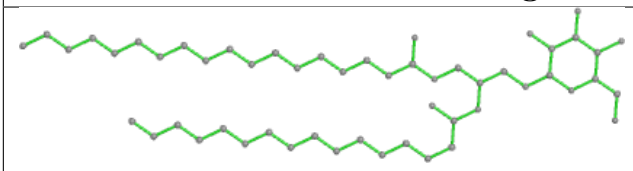


Torsions

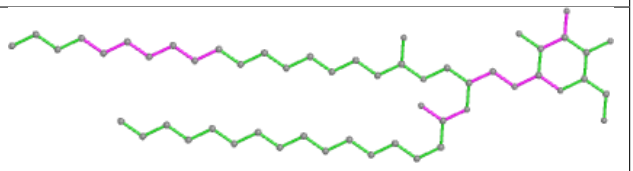


Rings

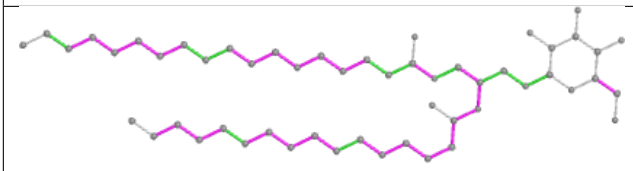
## Ligand LMG F 206



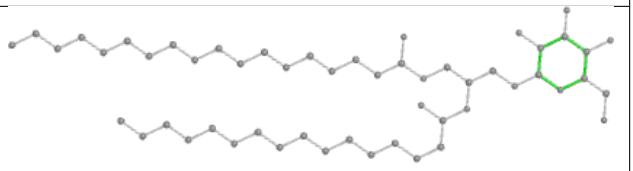
Bond lengths



Bond angles

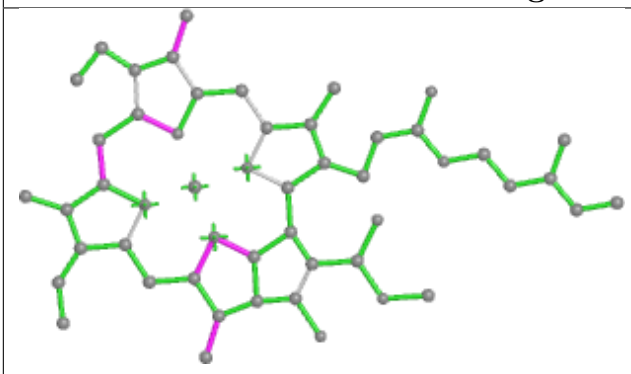


Torsions

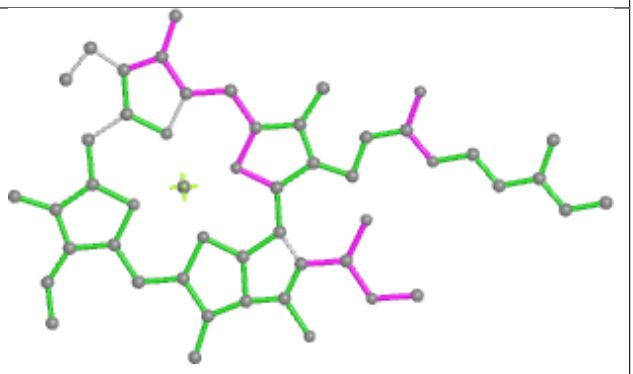


Rings

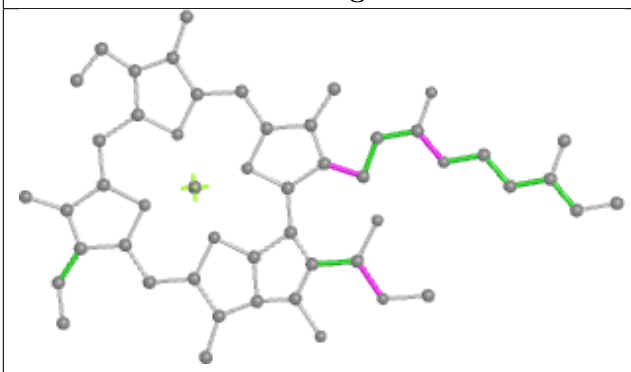
## Ligand CLA k 601



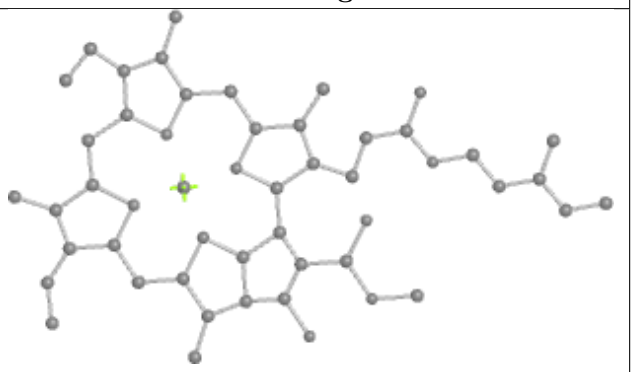
Bond lengths



Bond angles

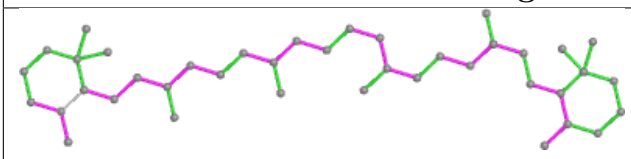


Torsions

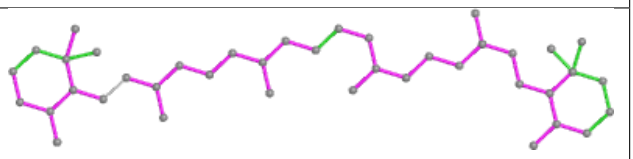


Rings

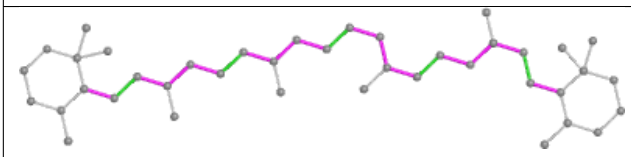
## Ligand WVN L 201



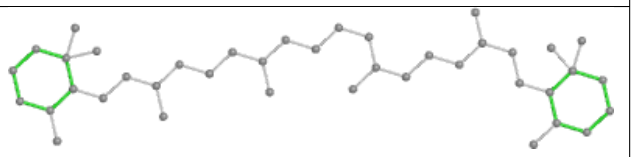
Bond lengths



Bond angles

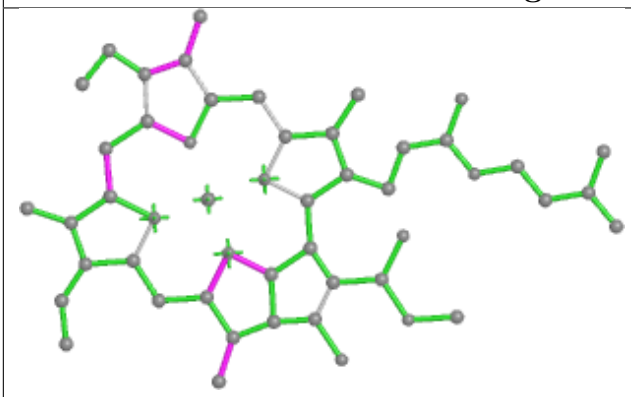


Torsions

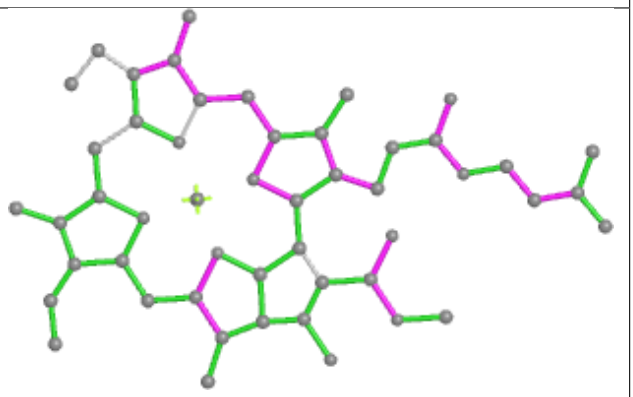


Rings

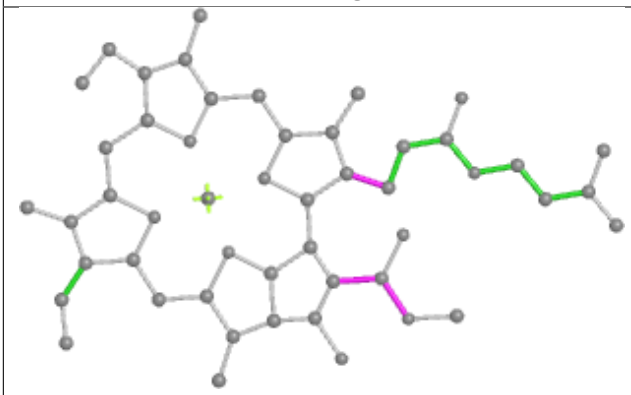
## Ligand CLA B 830



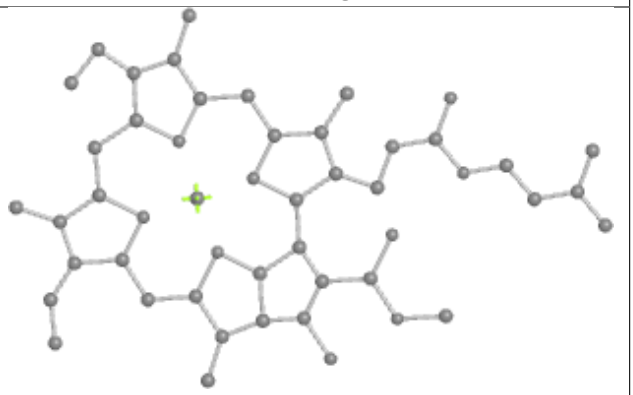
Bond lengths



Bond angles

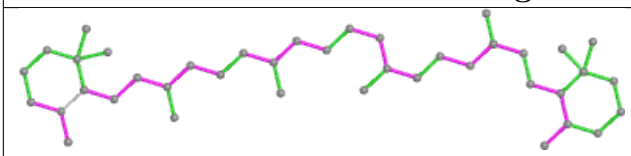


Torsions

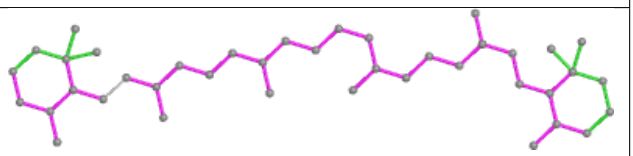


Rings

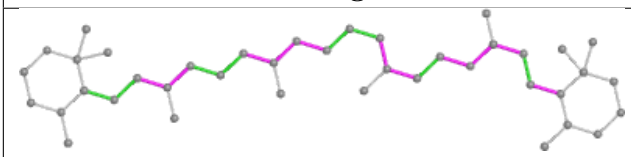
## Ligand WVN K 103



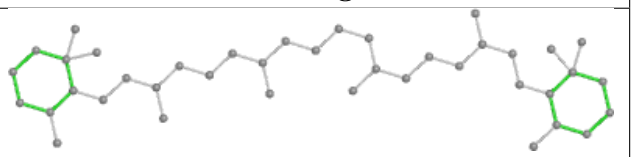
Bond lengths



Bond angles

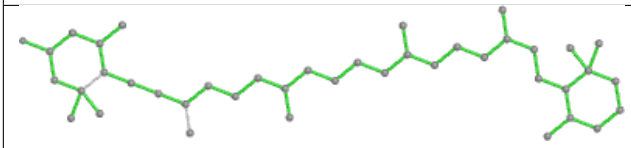


Torsions

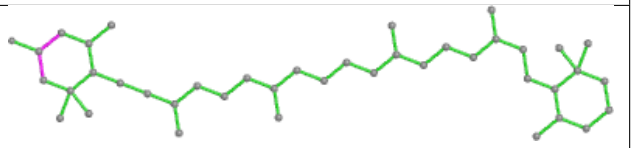


Rings

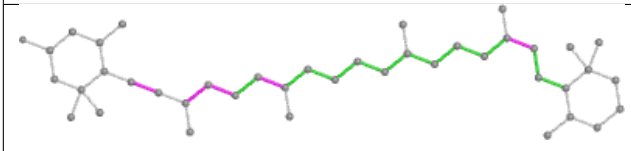
## Ligand IHT b 316



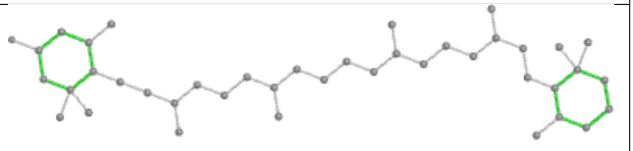
Bond lengths



Bond angles

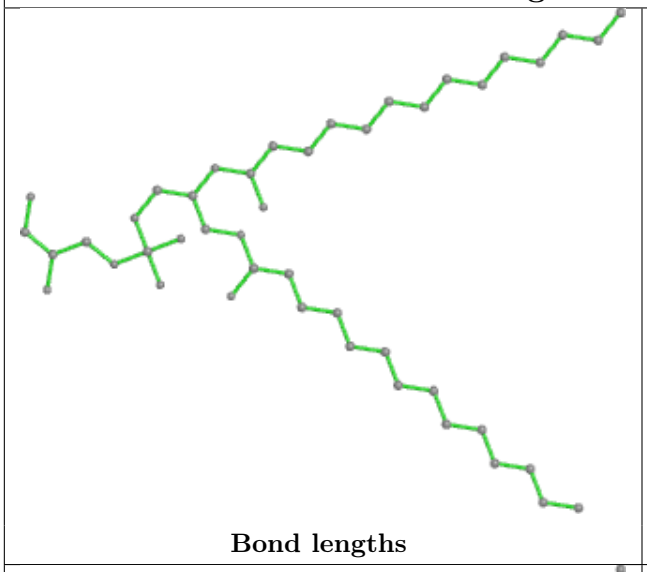


Torsions

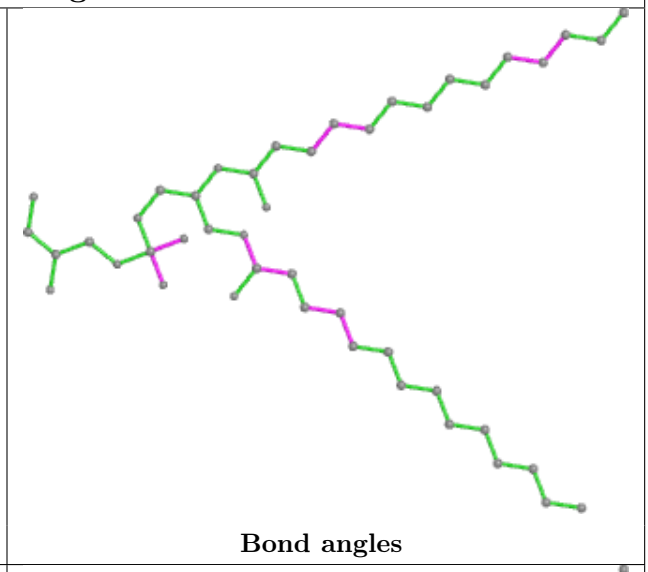


Rings

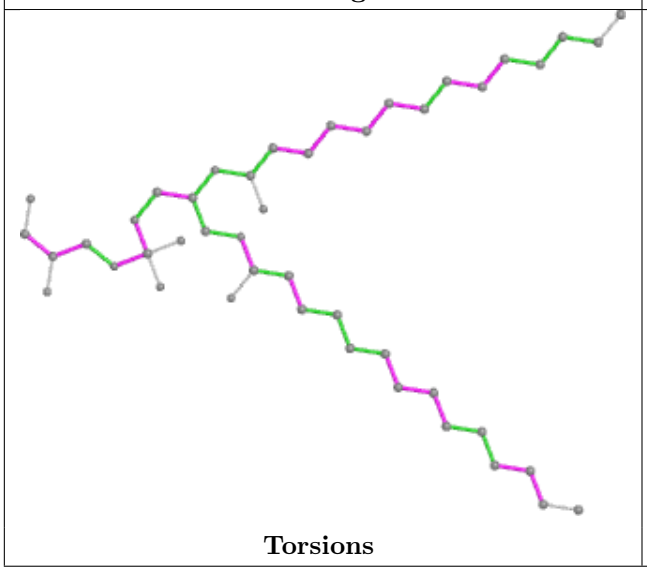
**Ligand LHG g 301**



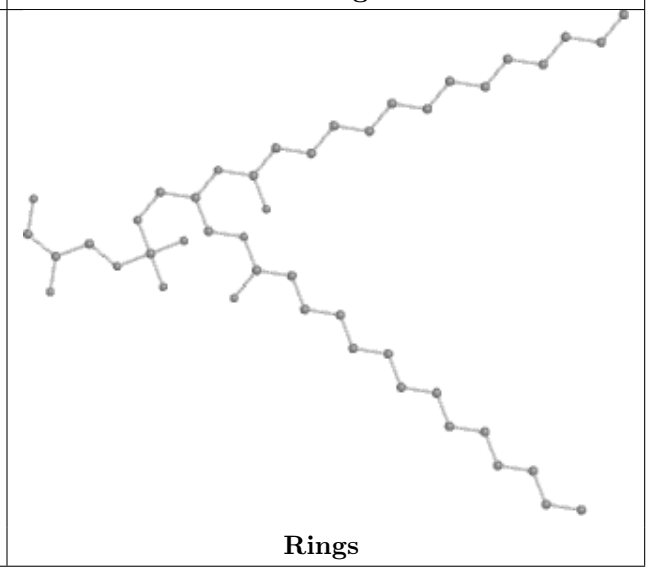
**Bond lengths**



**Bond angles**

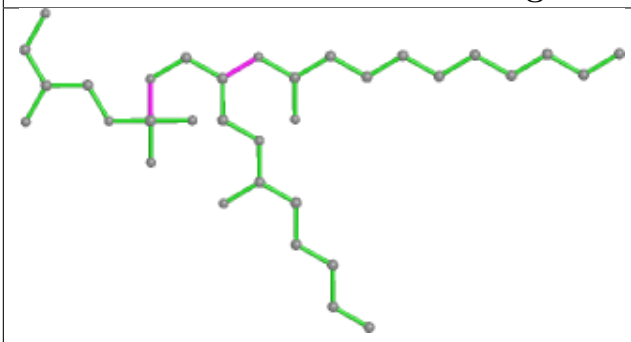


**Torsions**

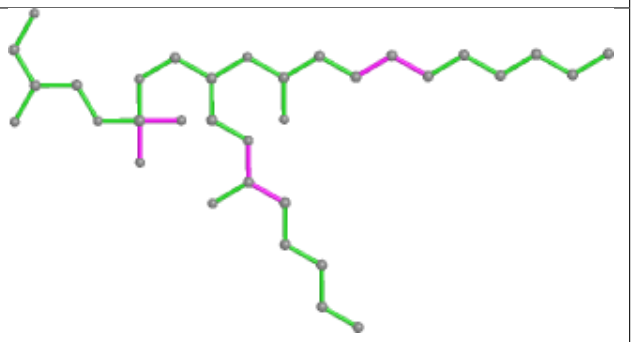


**Rings**

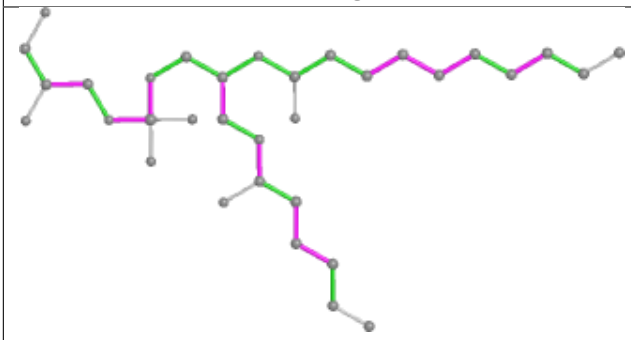
## Ligand LHG J 104



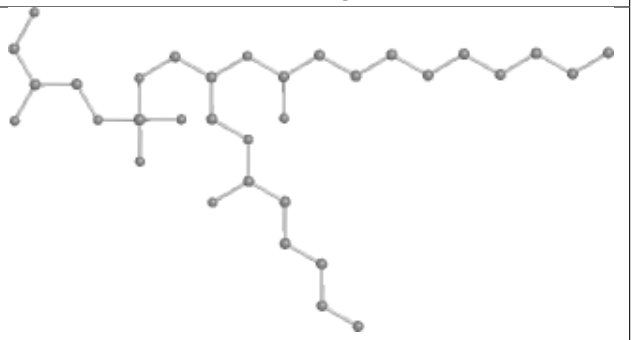
Bond lengths



Bond angles

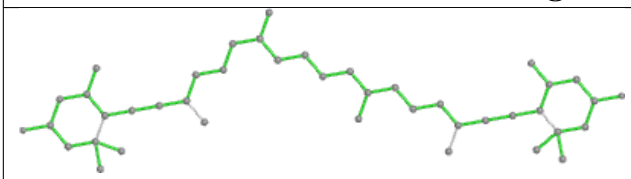


Torsions

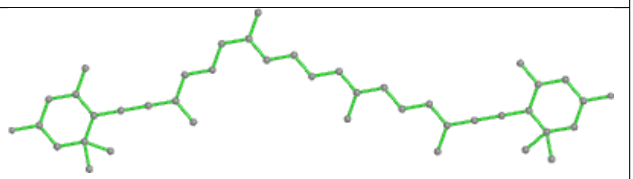


Rings

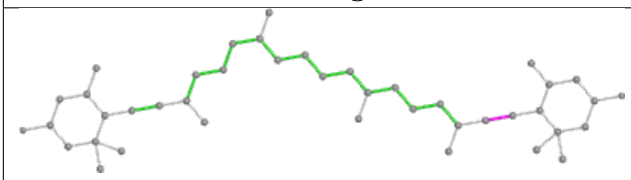
## Ligand II0 l 317



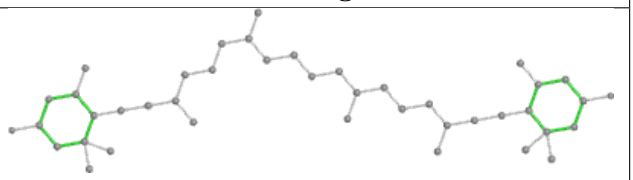
Bond lengths



Bond angles

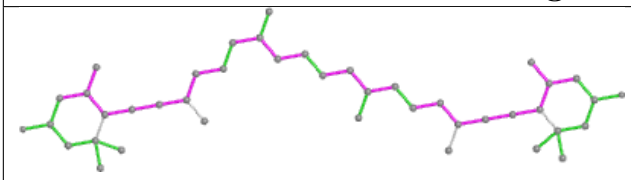


Torsions

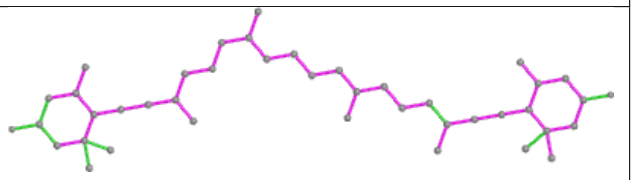


Rings

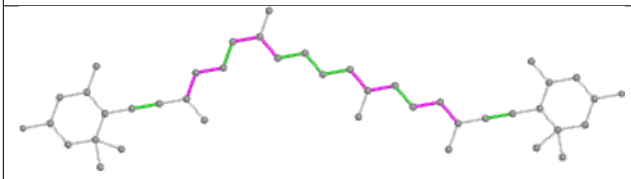
## Ligand II0 f 615



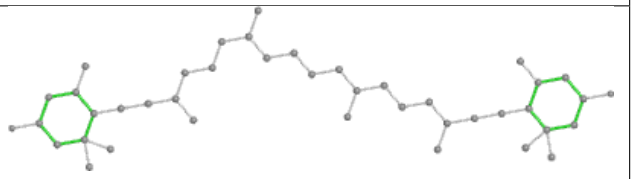
Bond lengths



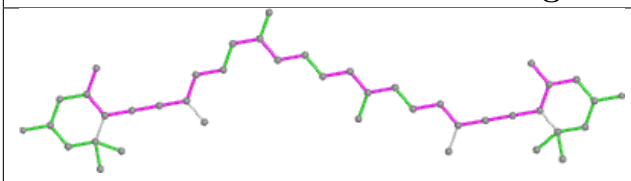
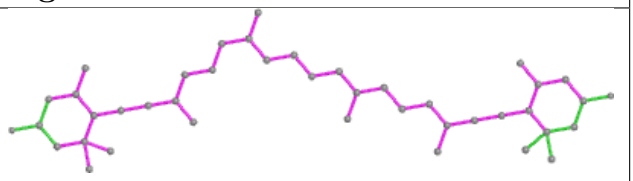
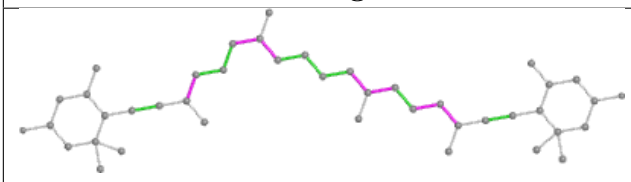
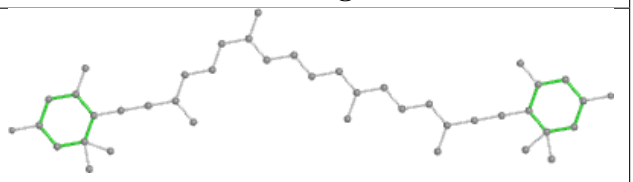
Bond angles

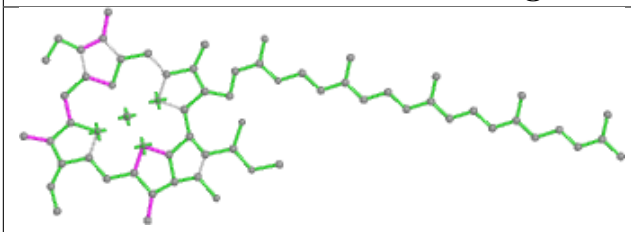
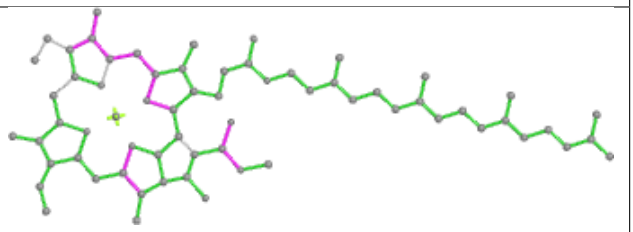
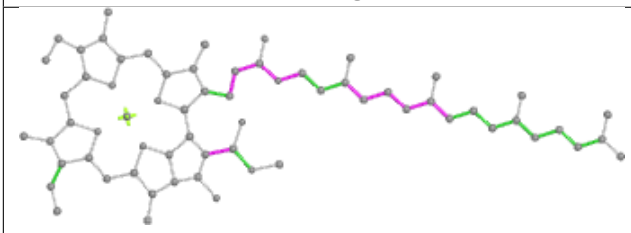
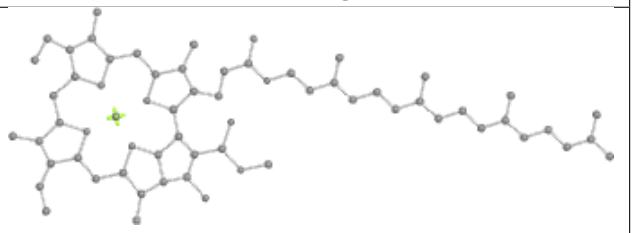


Torsions

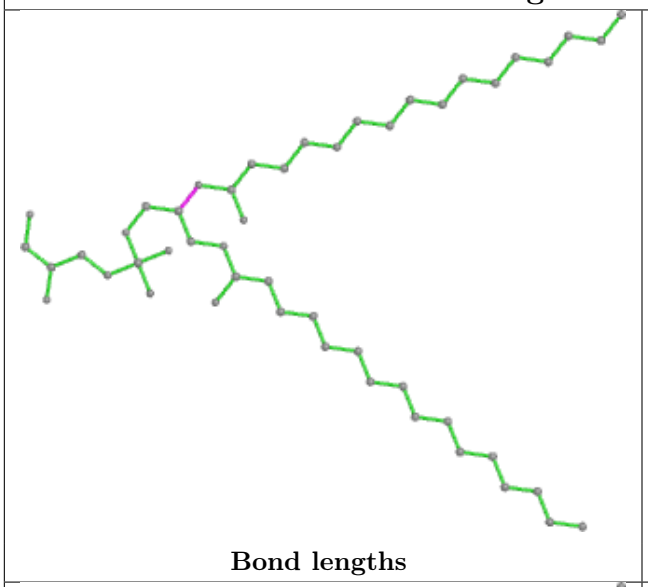


Rings

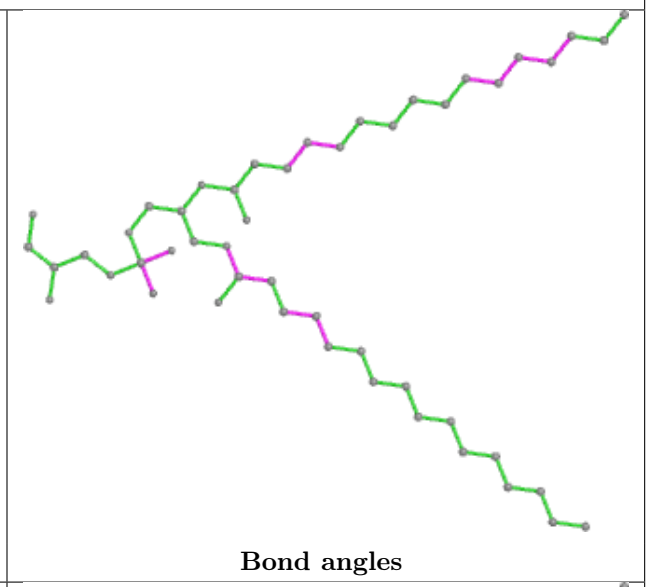
| Ligand II0 g 317 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

| Ligand CLA B 801 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

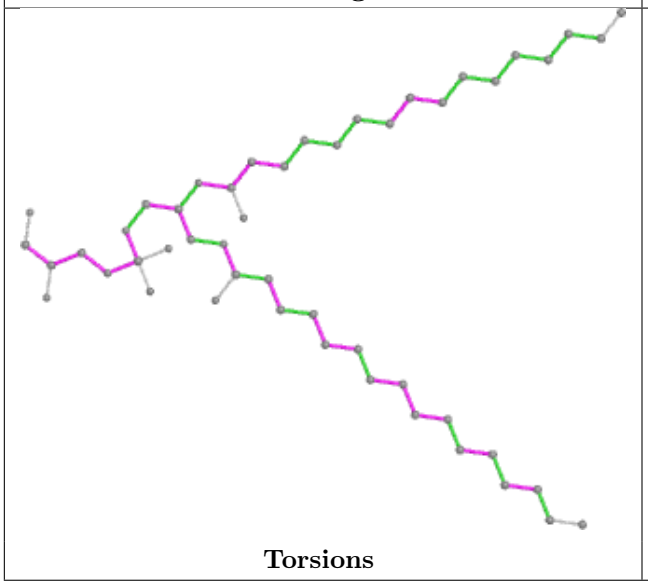
**Ligand LHG b 318**



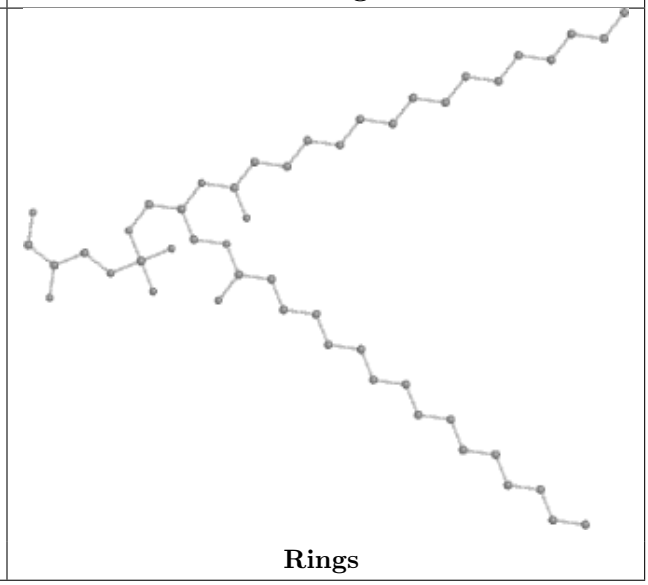
**Bond lengths**



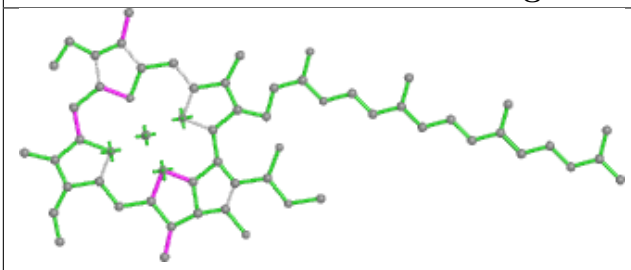
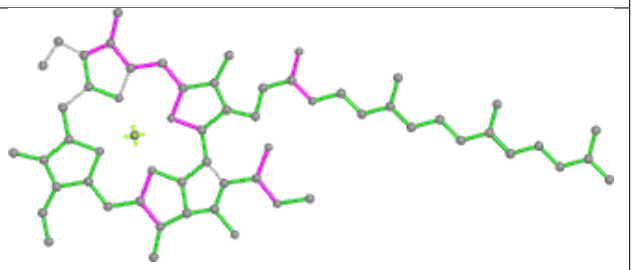
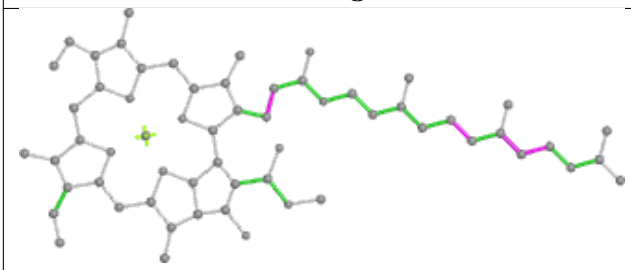
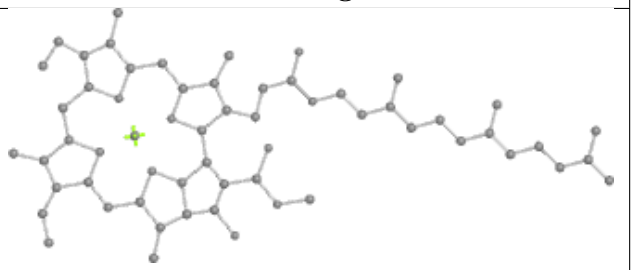
**Bond angles**

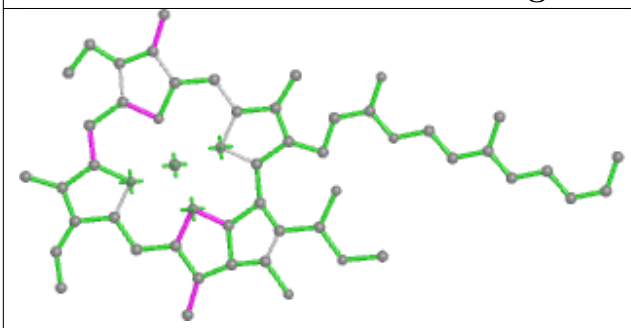
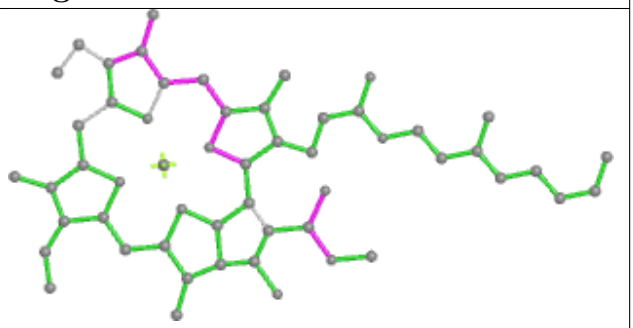
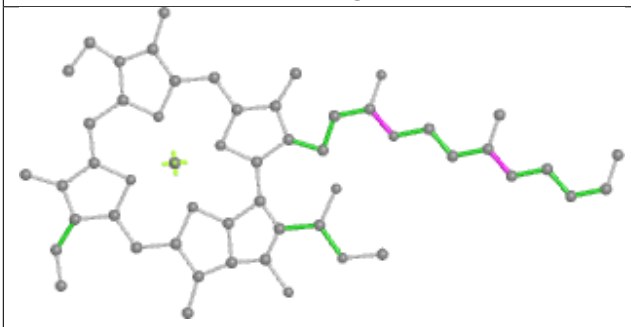
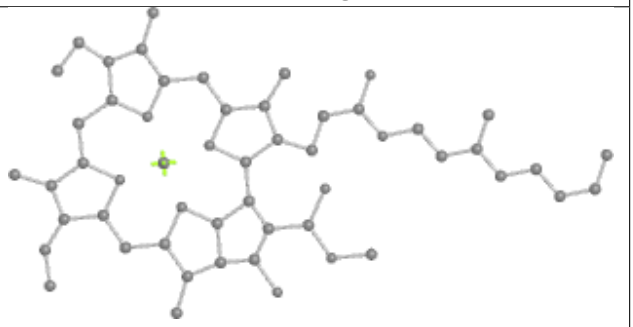


**Torsions**

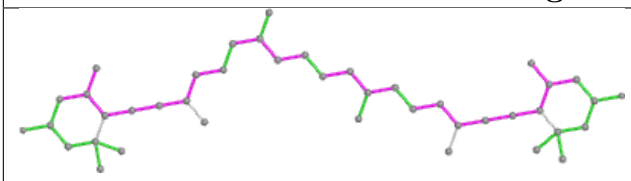


**Rings**

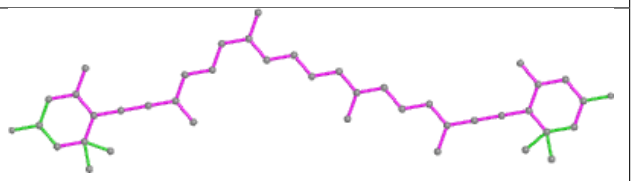
| Ligand CLA A 830 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA g 312 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

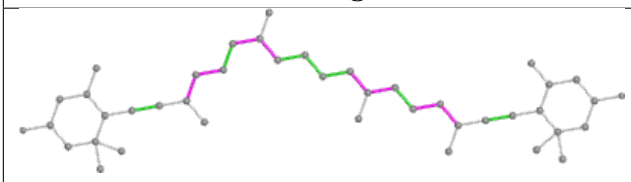
**Ligand II0 f 614**



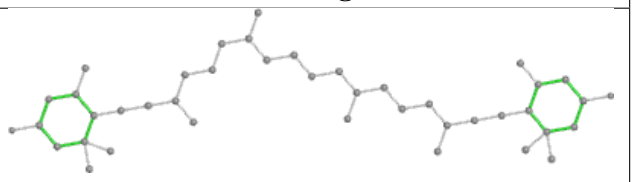
Bond lengths



Bond angles

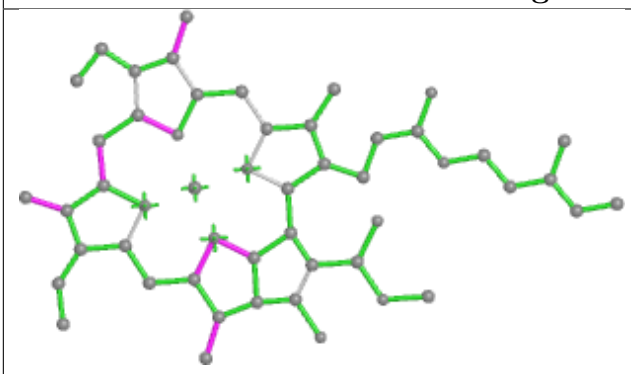


Torsions

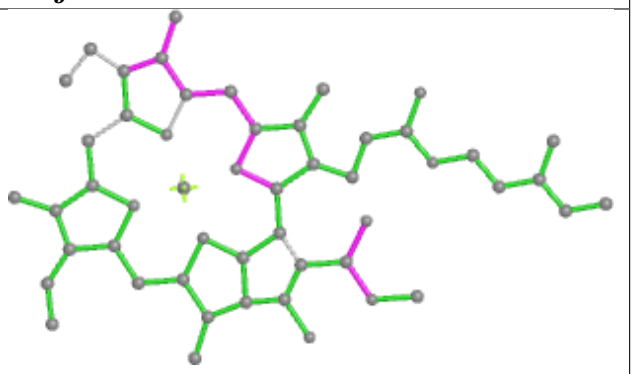


Rings

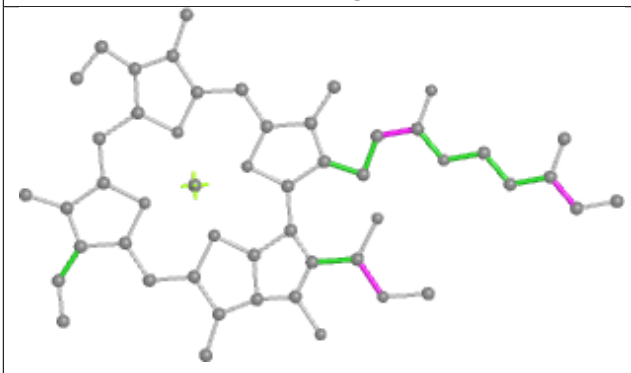
**Ligand CLA j 304**



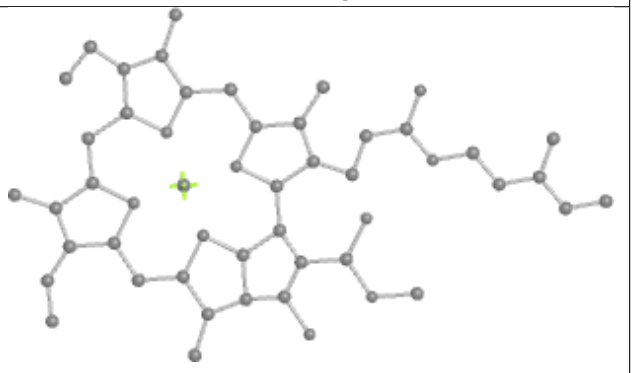
Bond lengths



Bond angles

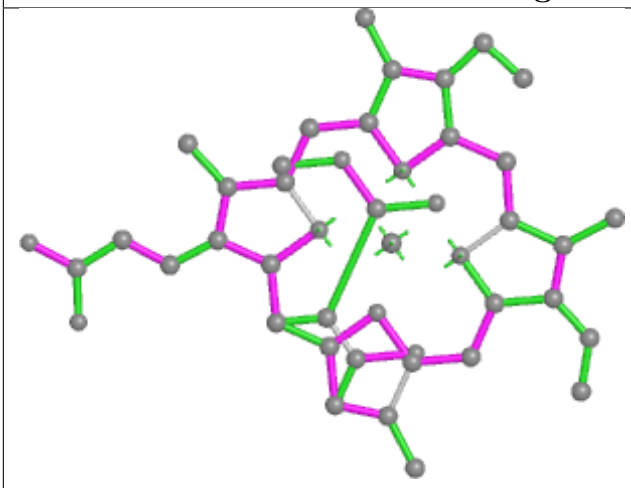


Torsions

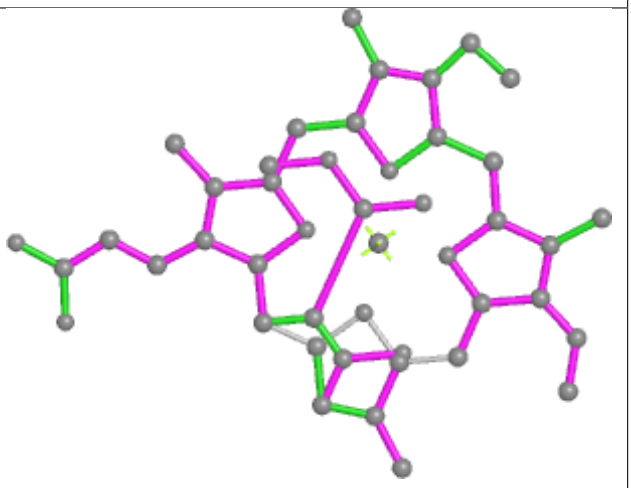


Rings

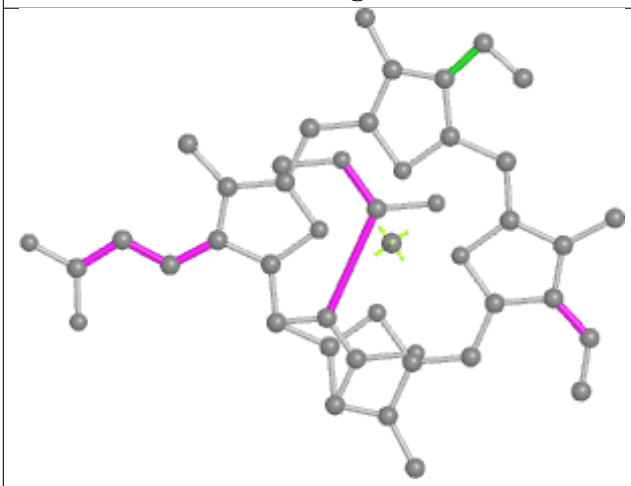
## Ligand KC2 i 310



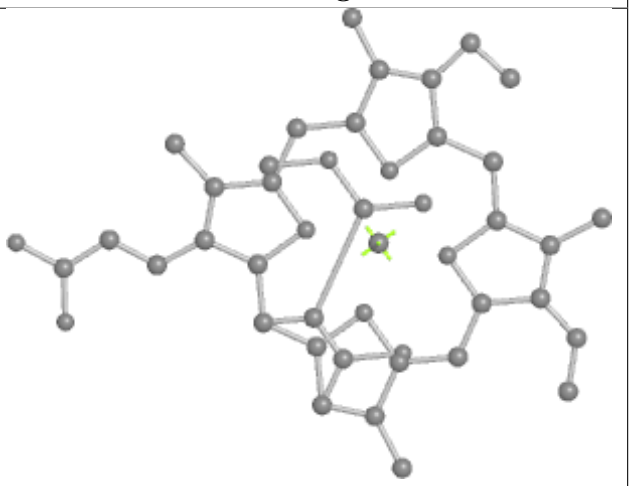
Bond lengths



Bond angles

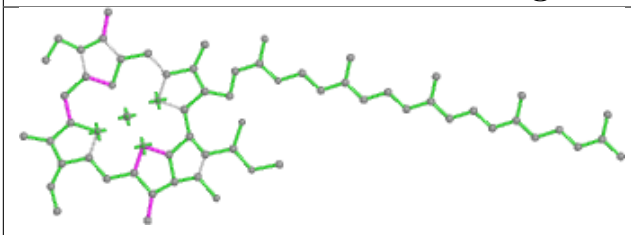


Torsions

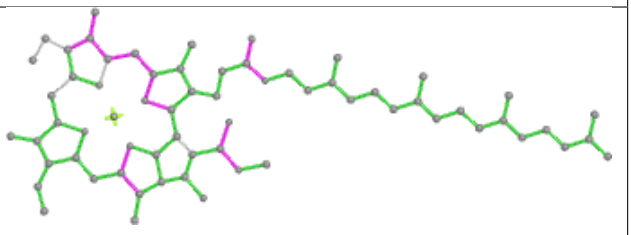


Rings

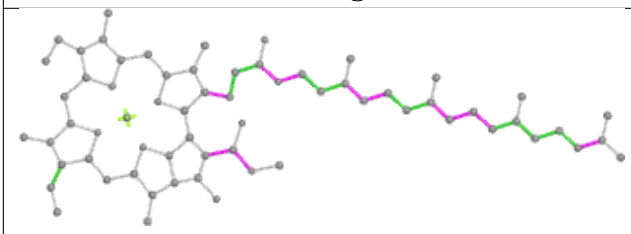
## Ligand CLA f 613



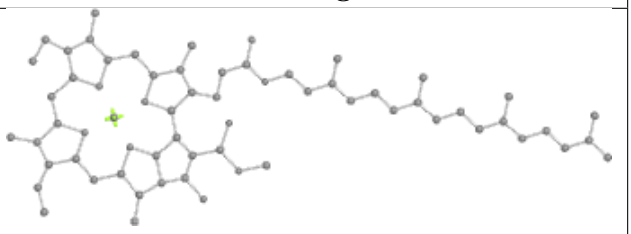
Bond lengths



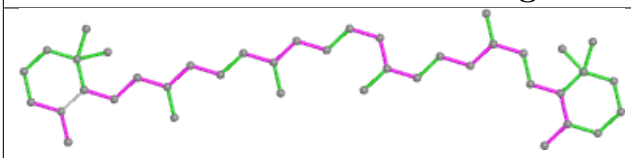
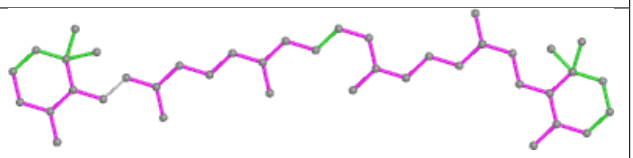
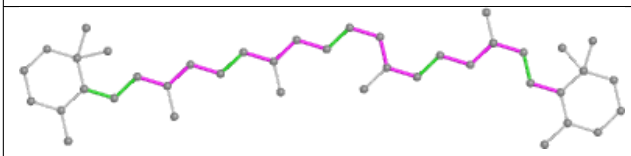
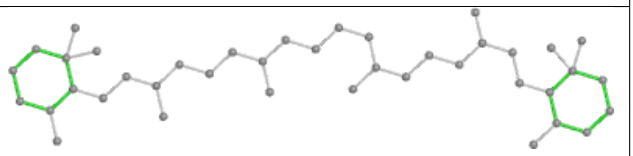
Bond angles

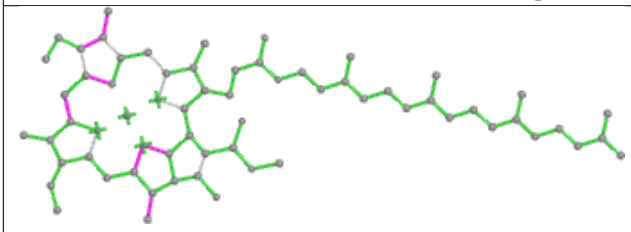
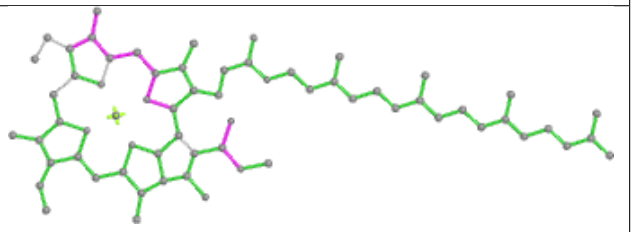
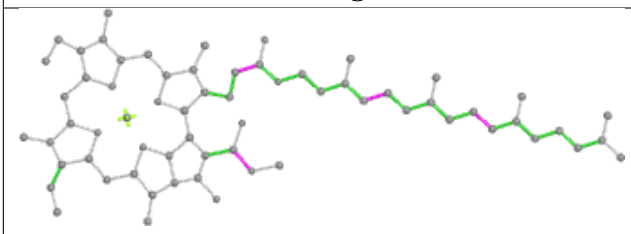
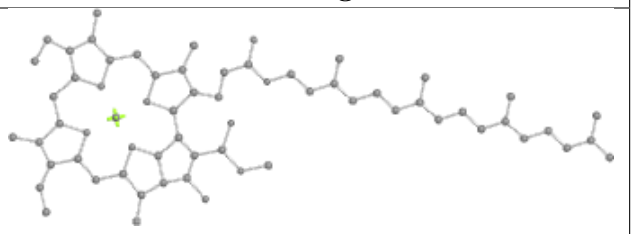


Torsions

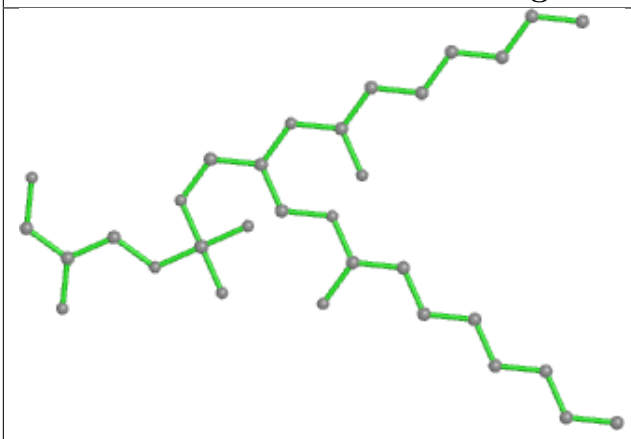


Rings

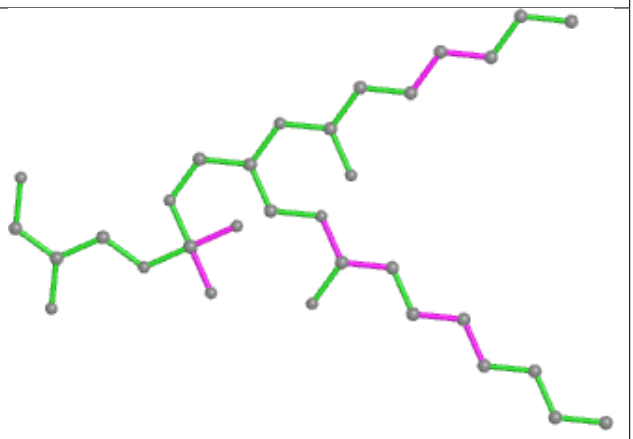
| Ligand WVN J 101 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA c 305 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

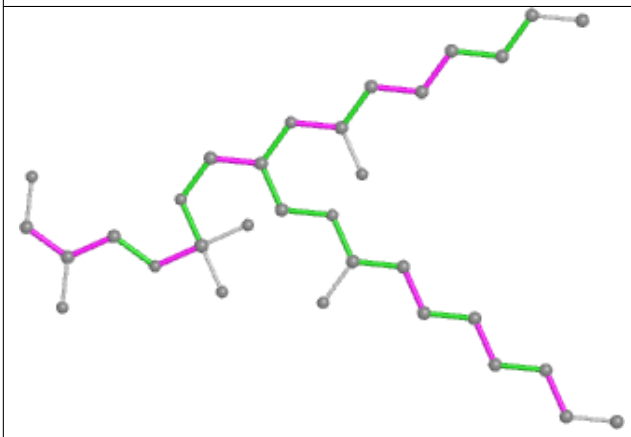
**Ligand LHG l 318**



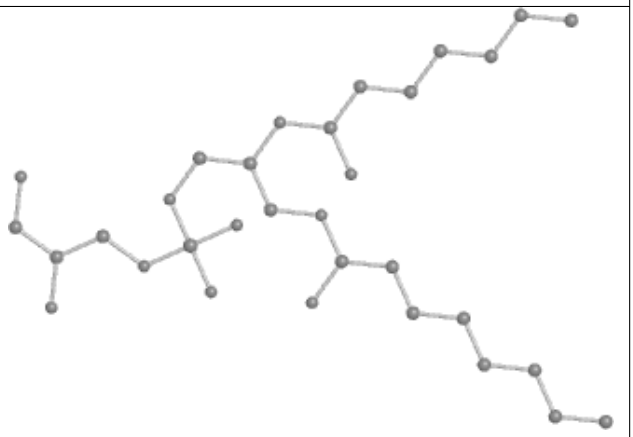
**Bond lengths**



**Bond angles**

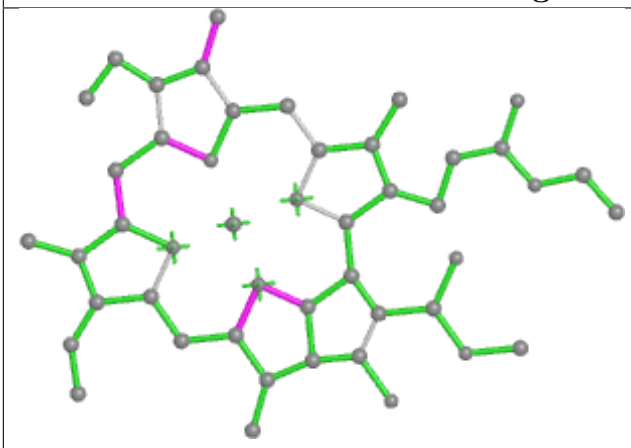


**Torsions**

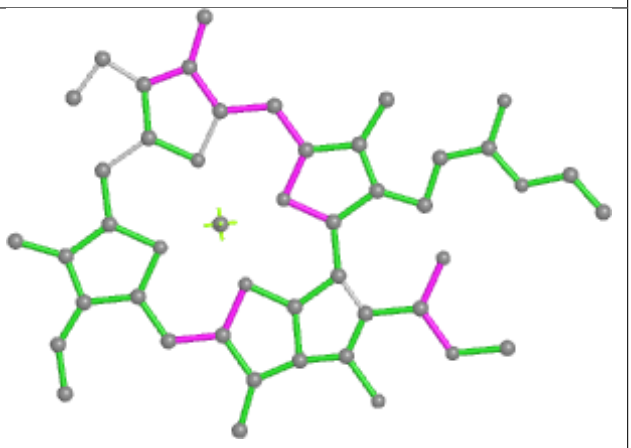


**Rings**

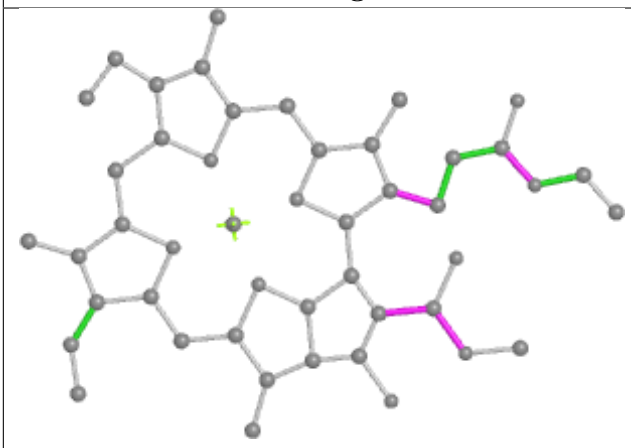
## Ligand CLA l 303



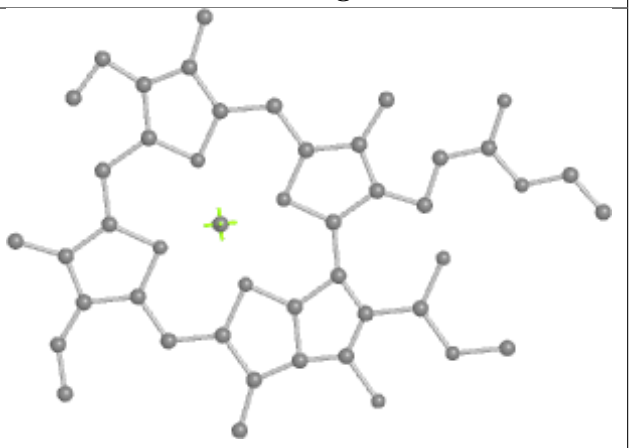
Bond lengths



Bond angles

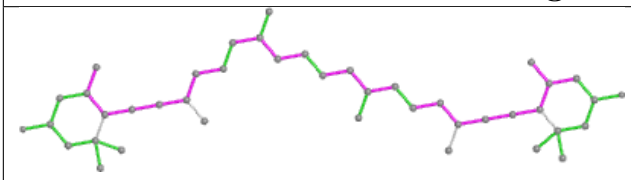


Torsions

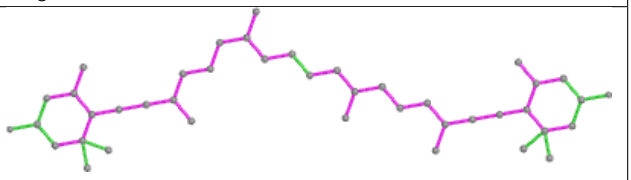


Rings

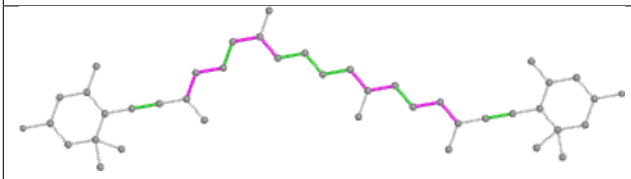
## Ligand II0 j 301



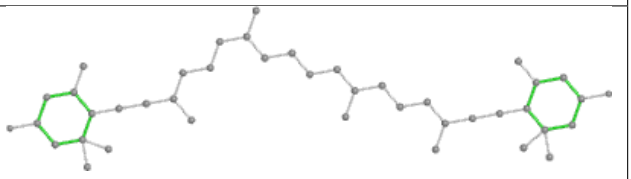
Bond lengths



Bond angles

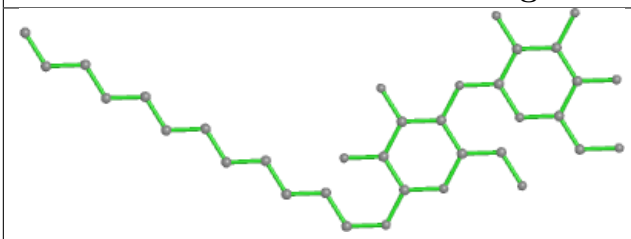


Torsions

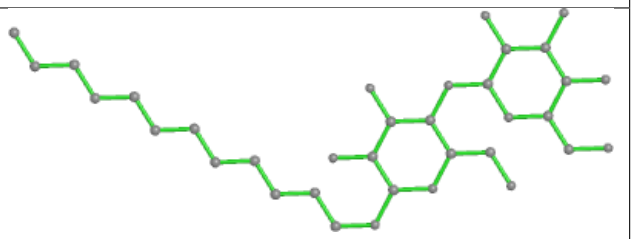


Rings

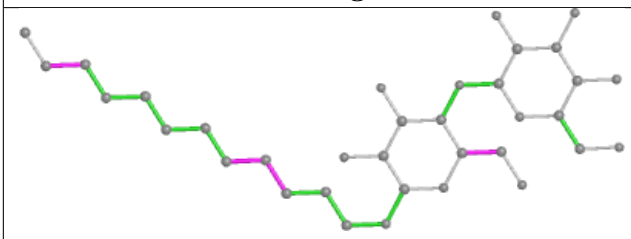
## Ligand LMU B 850



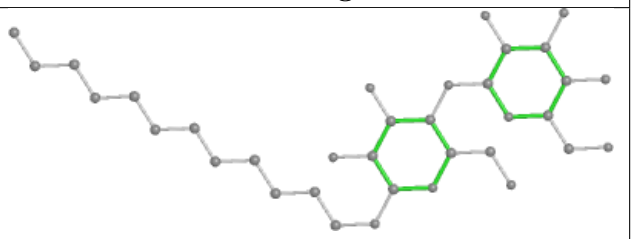
Bond lengths



Bond angles

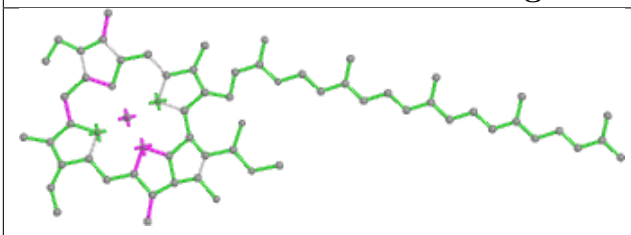


Torsions

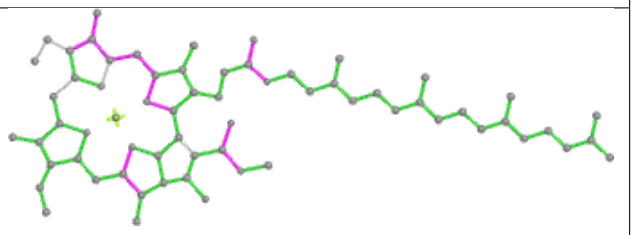


Rings

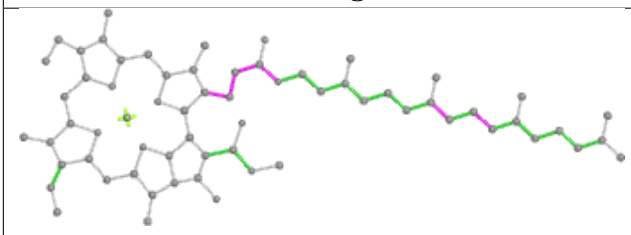
## Ligand CLA B 826



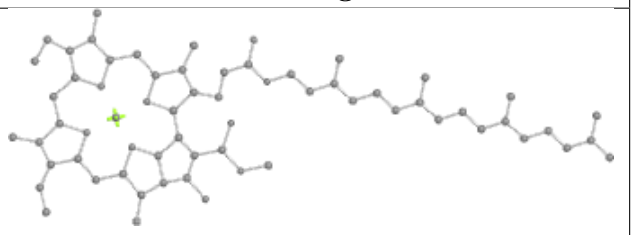
Bond lengths



Bond angles

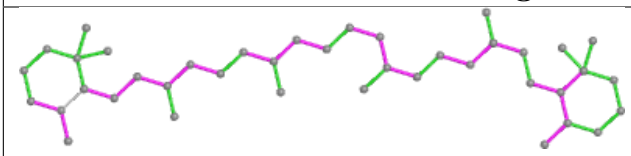


Torsions

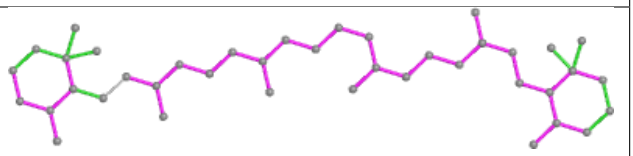


Rings

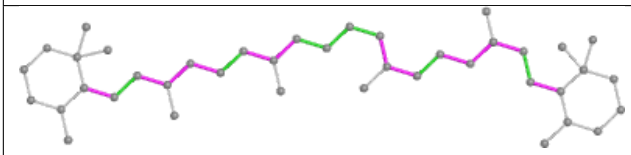
## Ligand WVN A 844



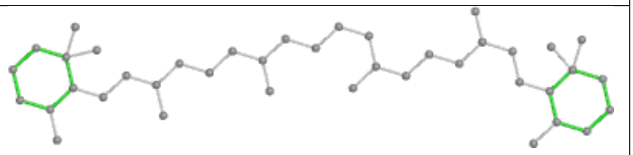
Bond lengths



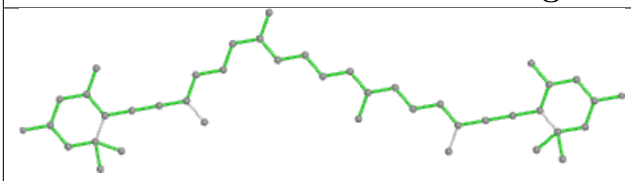
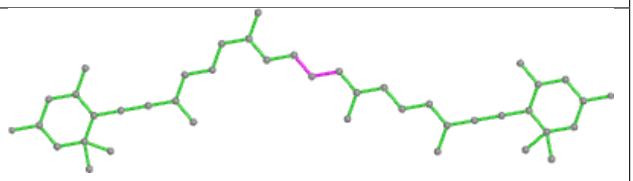
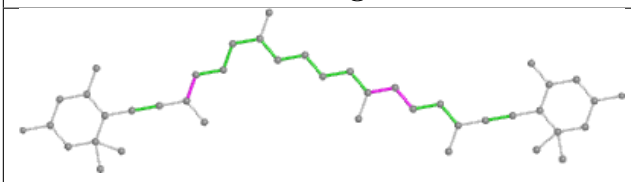
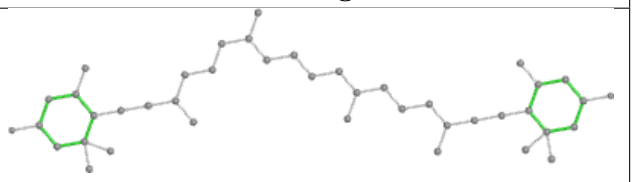
Bond angles

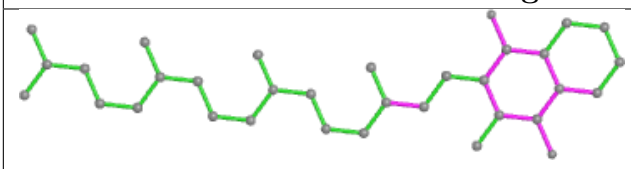
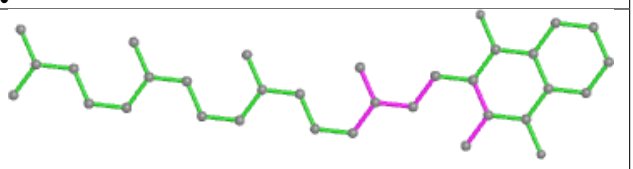
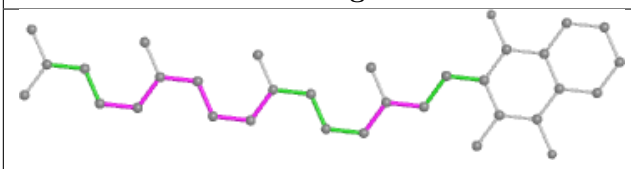
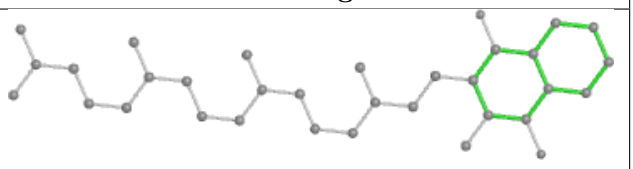


Torsions

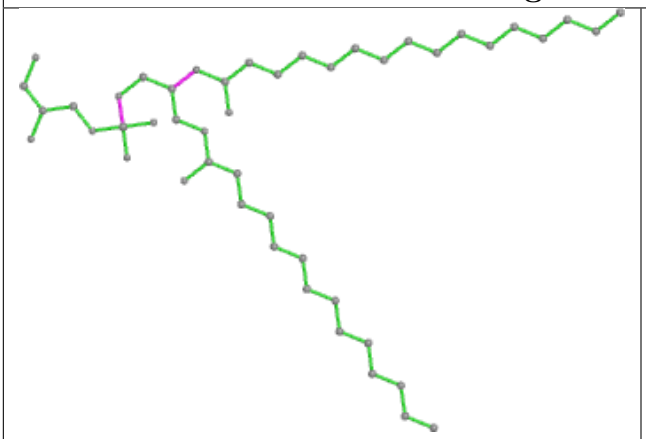


Rings

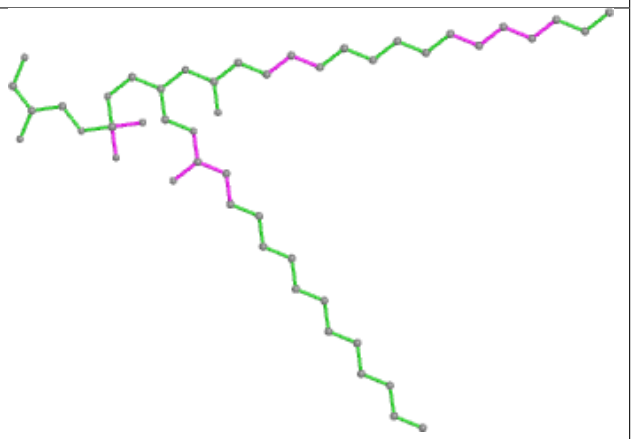
| Ligand II0 k 618 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

| Ligand PQN A 841 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

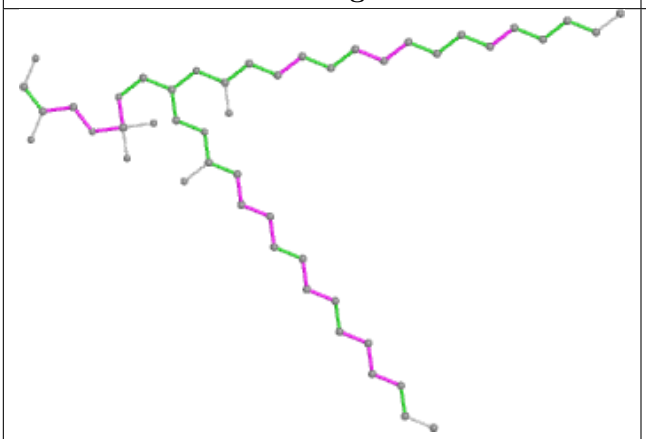
**Ligand LHG L 208**



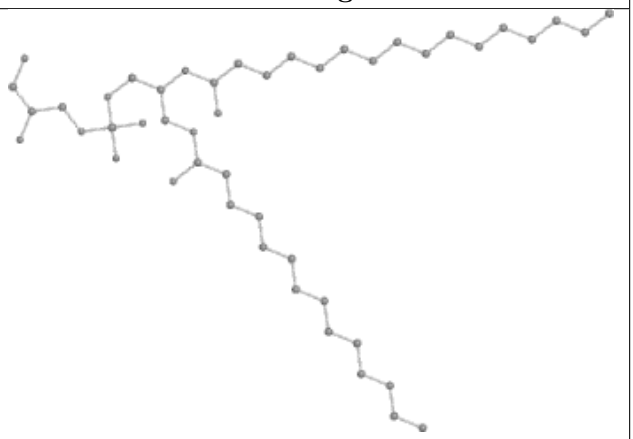
**Bond lengths**



**Bond angles**

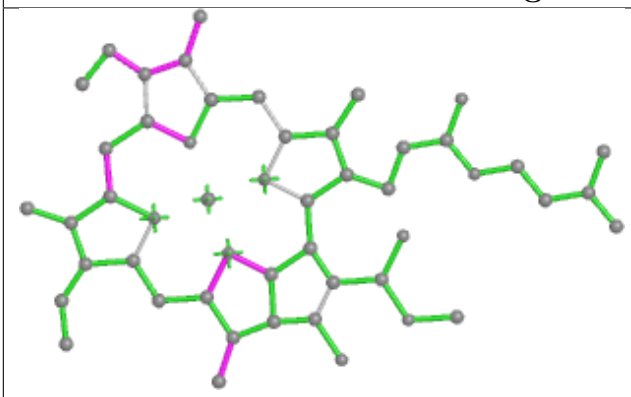


**Torsions**

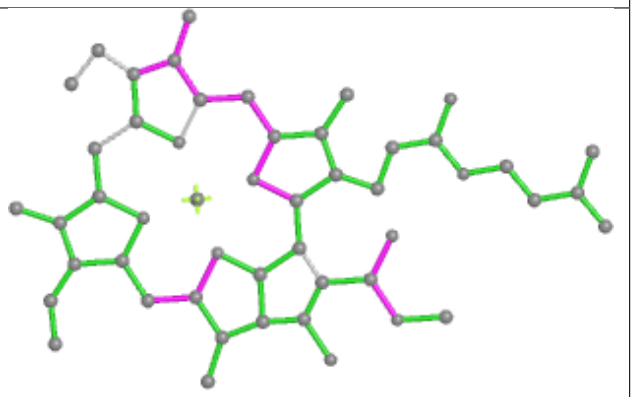


**Rings**

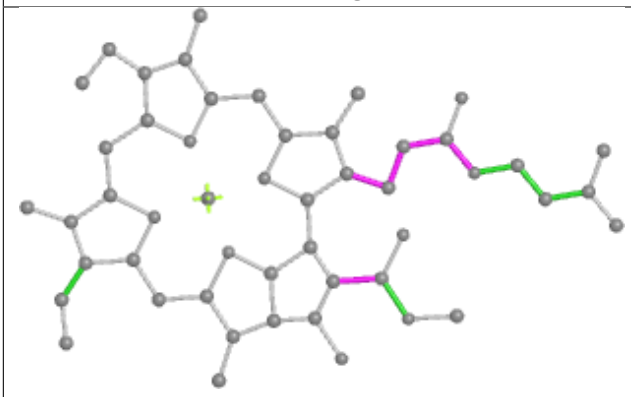
**Ligand CLA B 828**



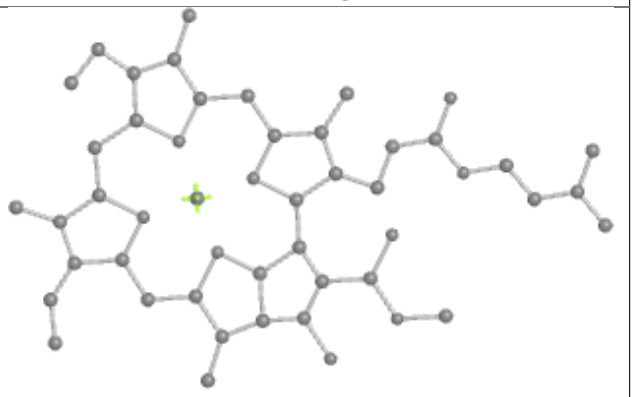
**Bond lengths**



**Bond angles**

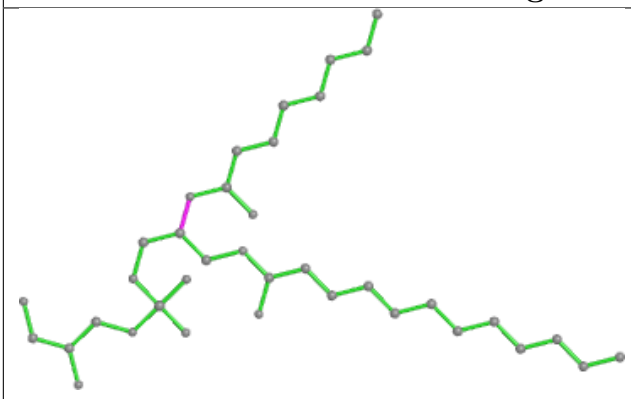


**Torsions**

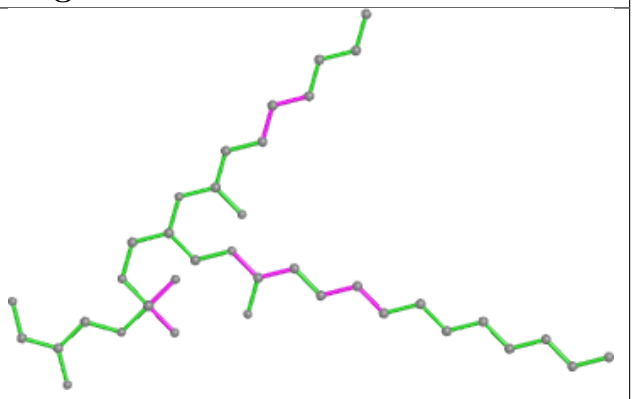


**Rings**

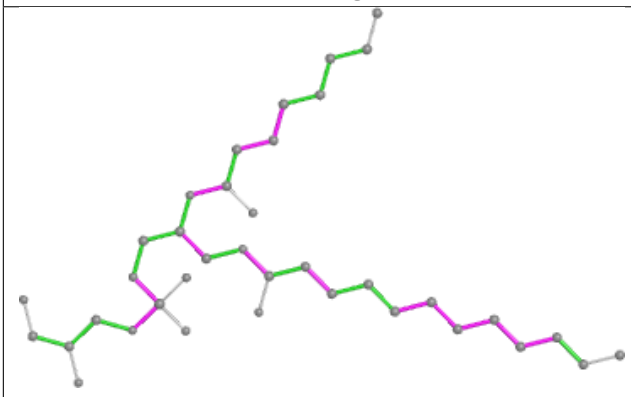
**Ligand LHG g 322**



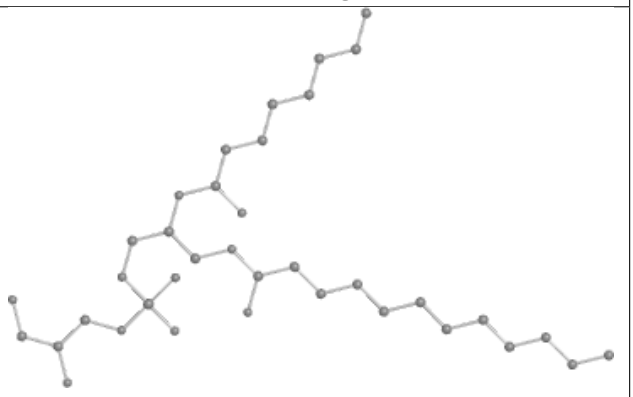
Bond lengths



Bond angles

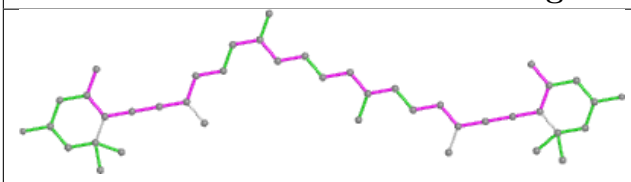


Torsions

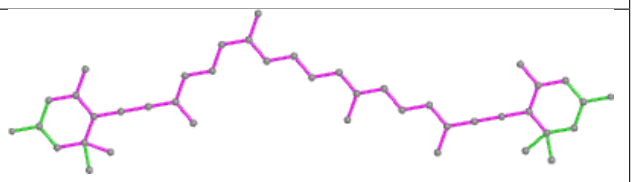


Rings

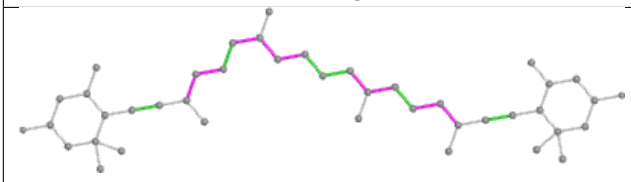
**Ligand II0 f 616**



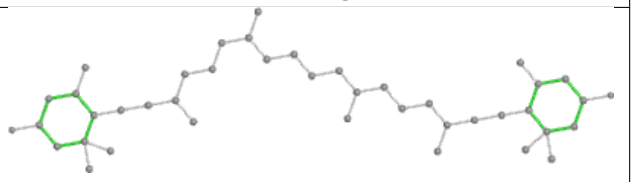
Bond lengths



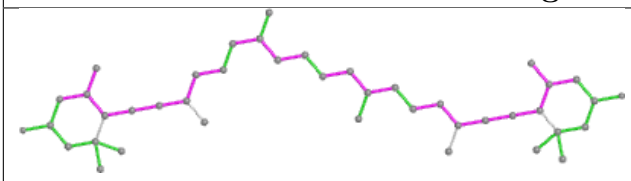
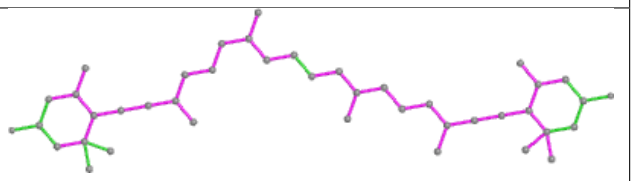
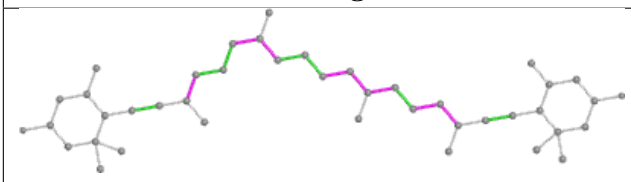
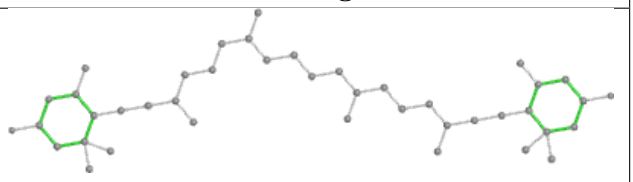
Bond angles

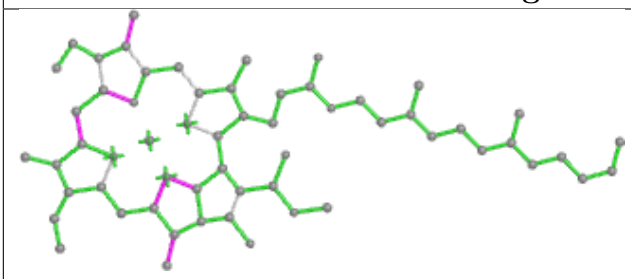
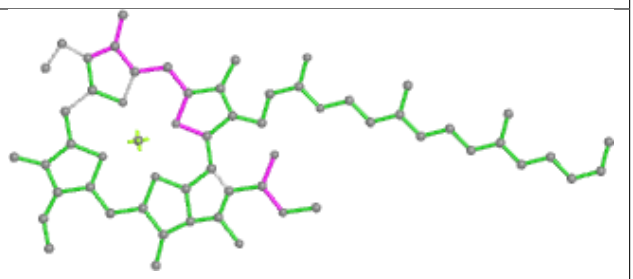
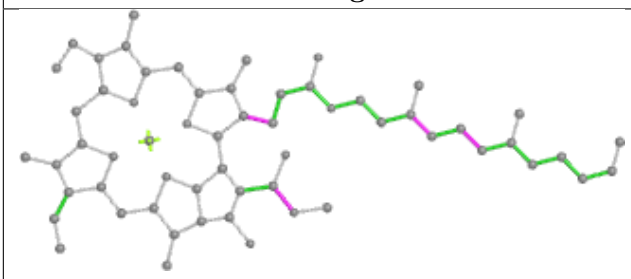
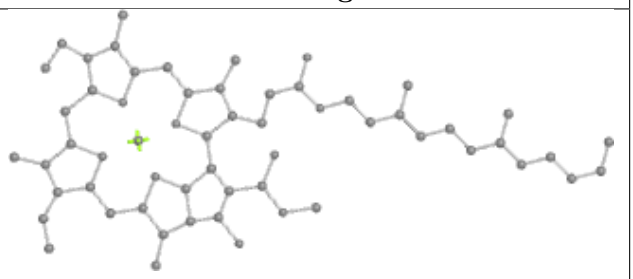


Torsions

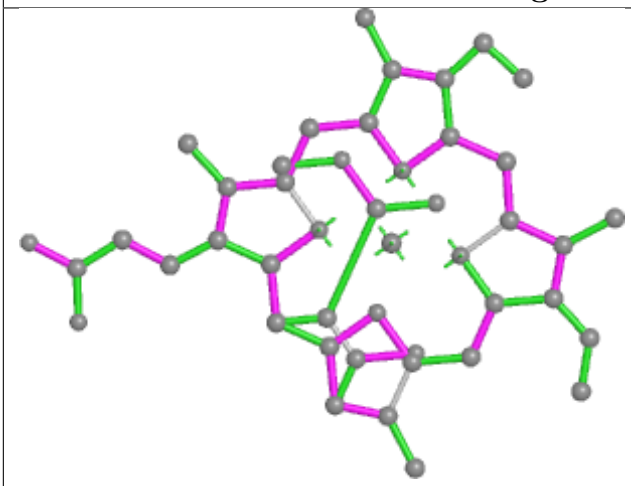


Rings

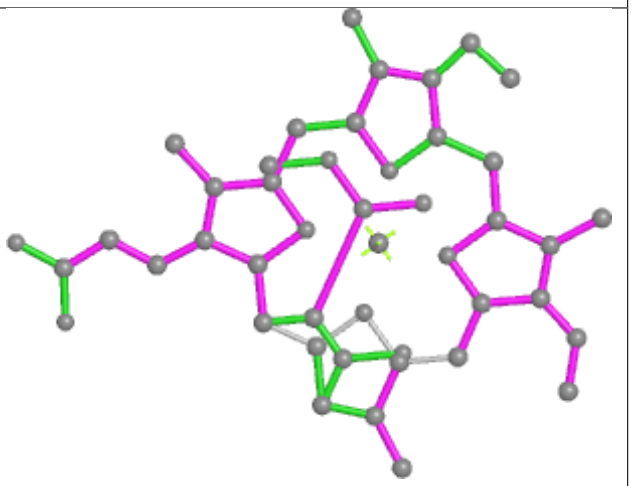
| Ligand II0 d 315 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

| Ligand CLA m 603 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

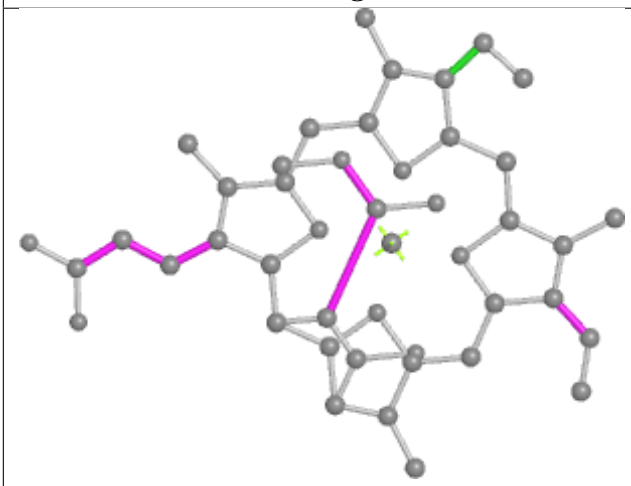
**Ligand KC2 c 310**



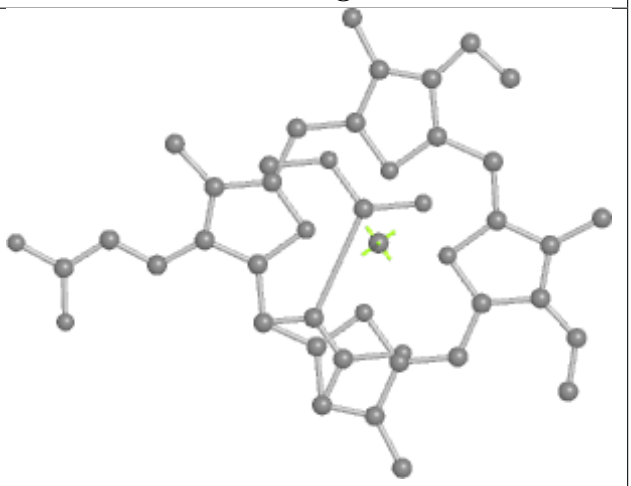
**Bond lengths**



**Bond angles**

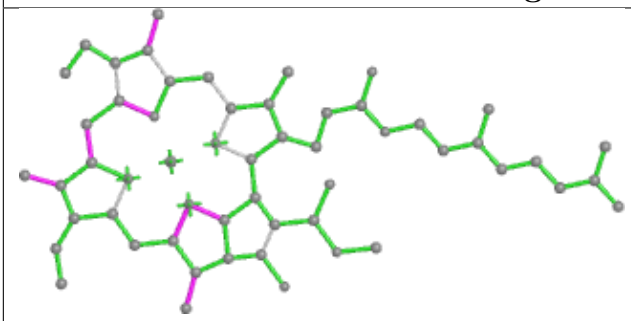


**Torsions**

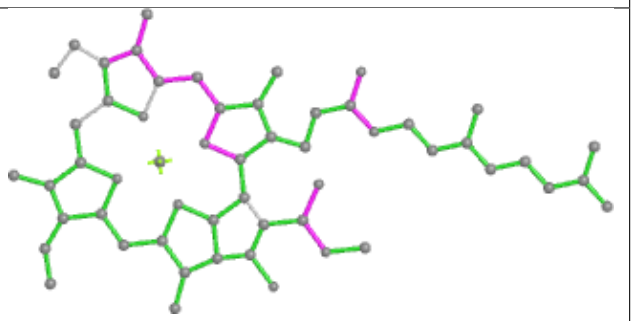


**Rings**

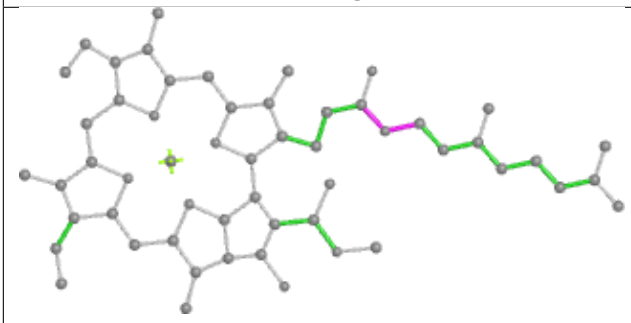
**Ligand CLA B 811**



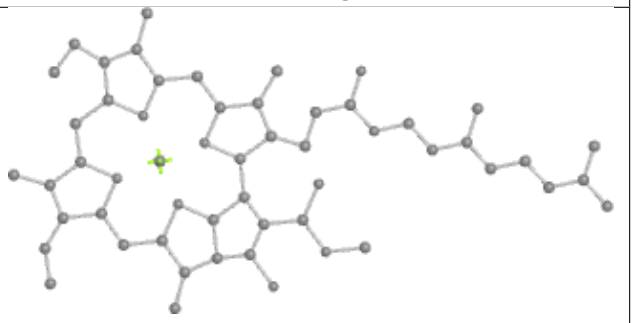
**Bond lengths**



**Bond angles**

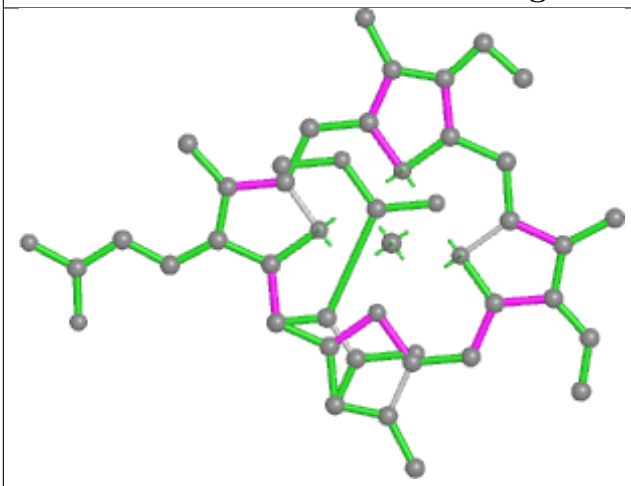


**Torsions**

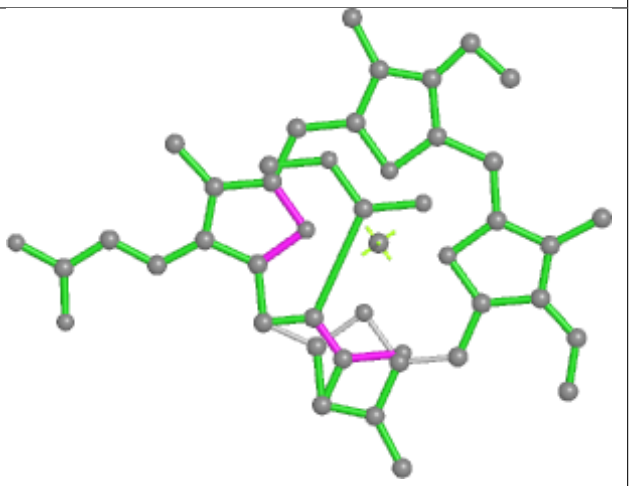


**Rings**

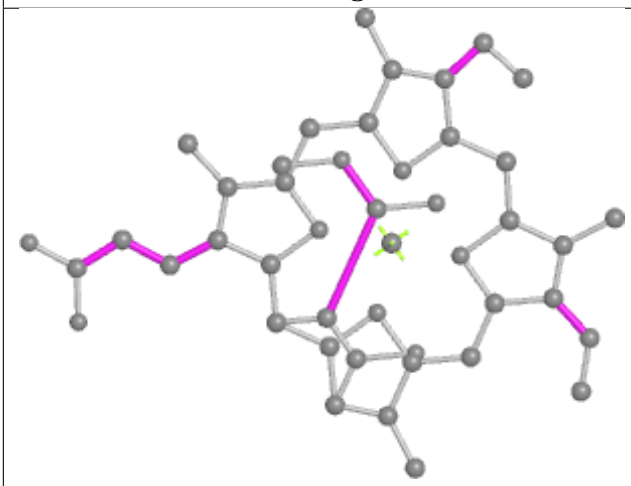
**Ligand KC2 n 612**



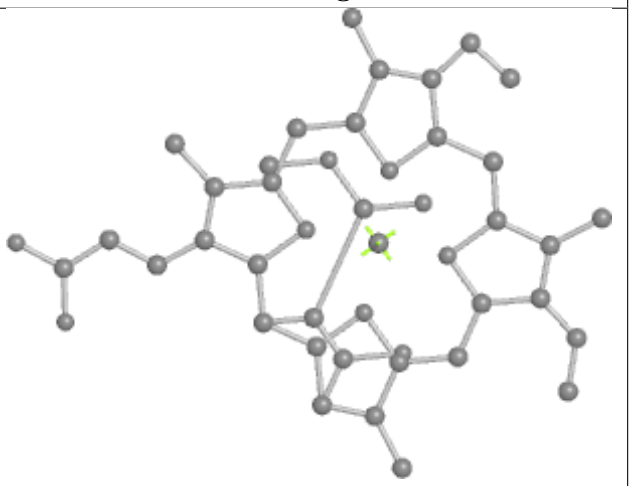
Bond lengths



Bond angles

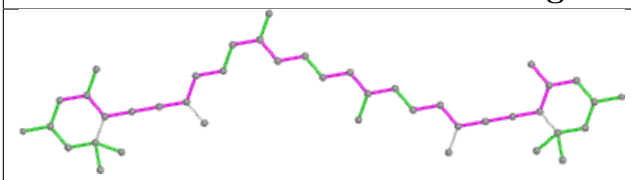


Torsions

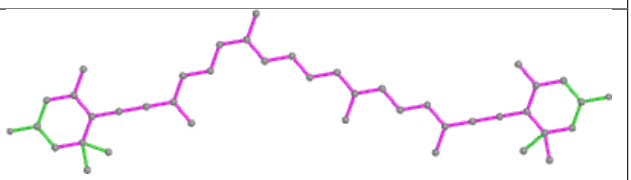


Rings

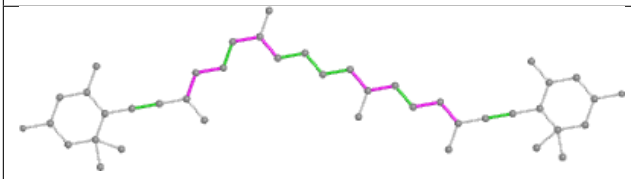
**Ligand II0 i 313**



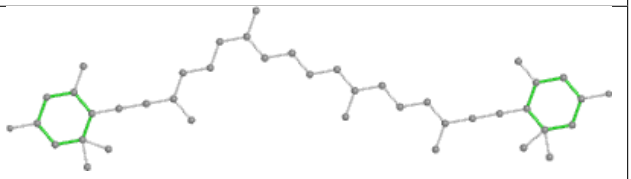
Bond lengths



Bond angles

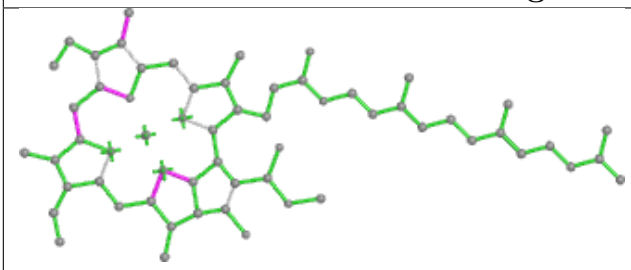


Torsions

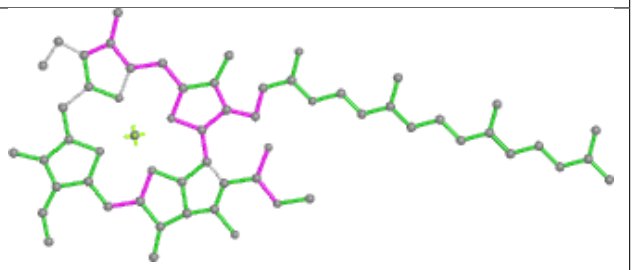


Rings

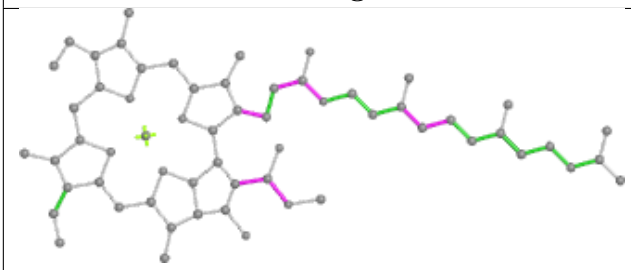
**Ligand CLA n 604**



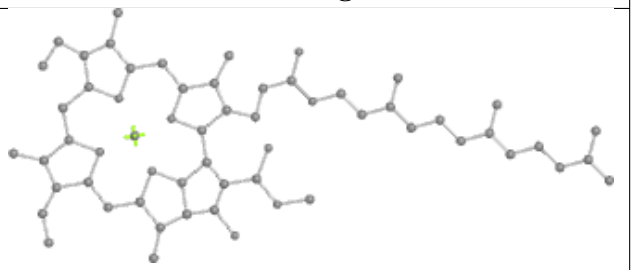
Bond lengths



Bond angles

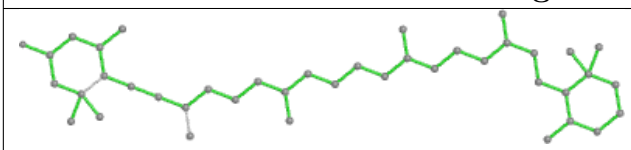


Torsions

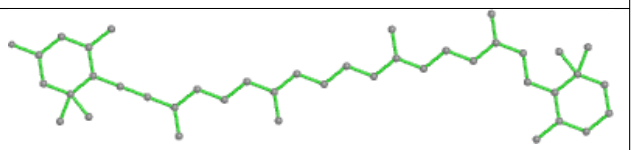


Rings

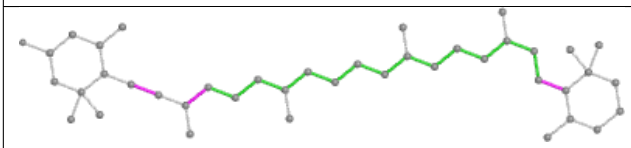
**Ligand IHT a 316**



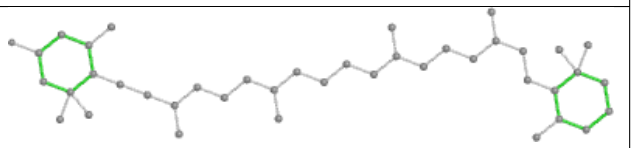
Bond lengths



Bond angles

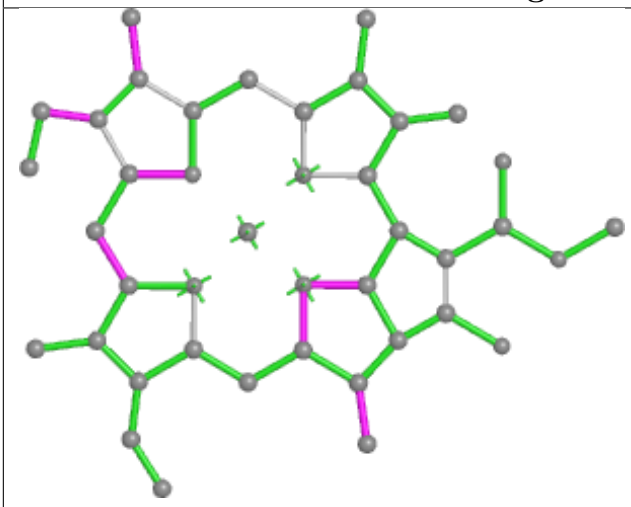


Torsions

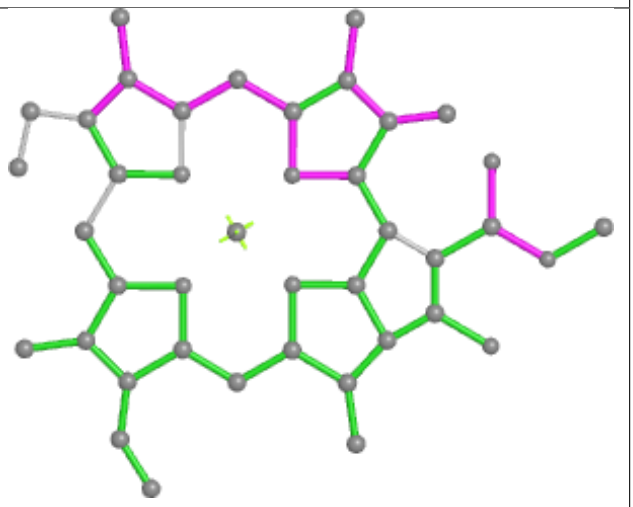


Rings

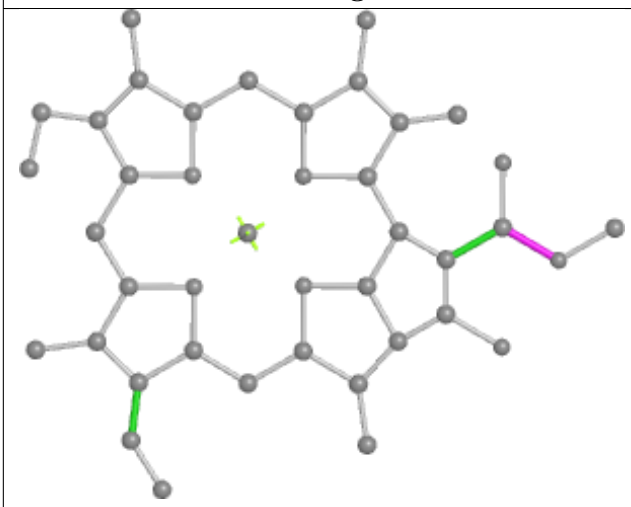
## Ligand CLA d 309



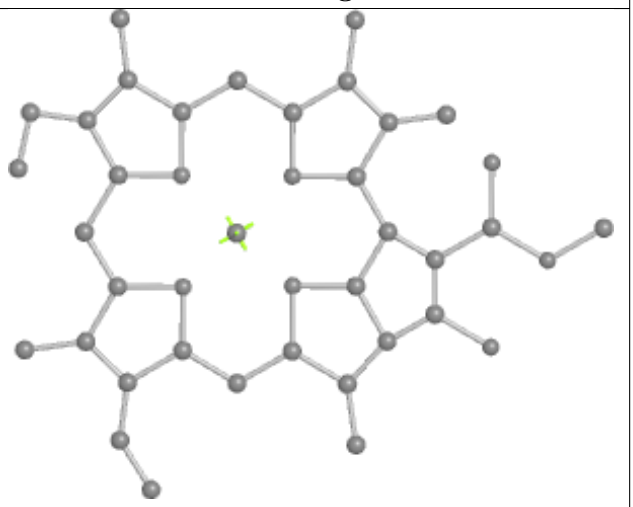
Bond lengths



Bond angles

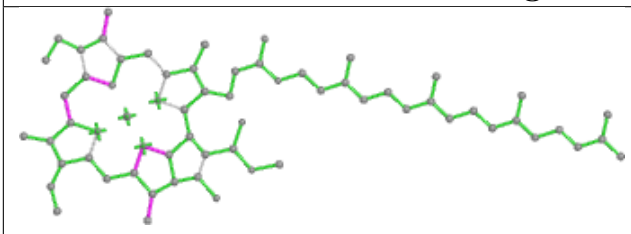


Torsions

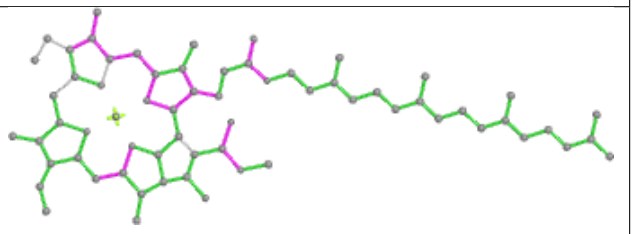


Rings

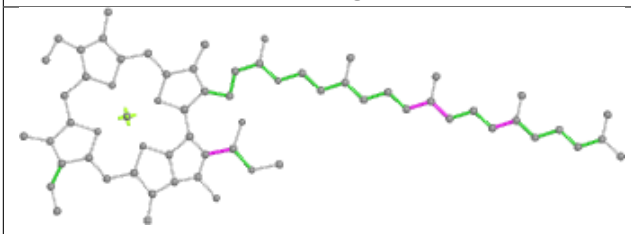
## Ligand CLA A 825



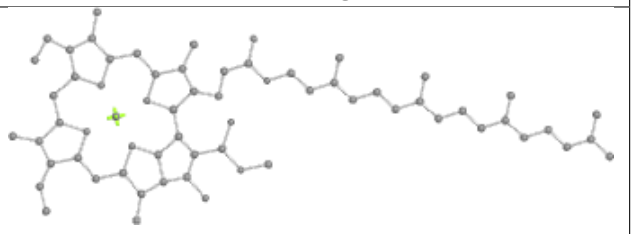
Bond lengths



Bond angles

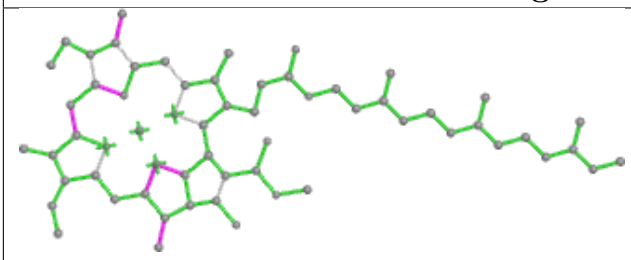


Torsions

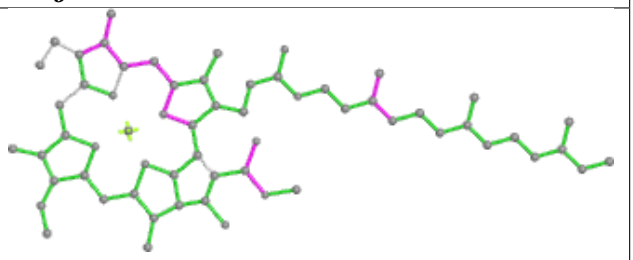


Rings

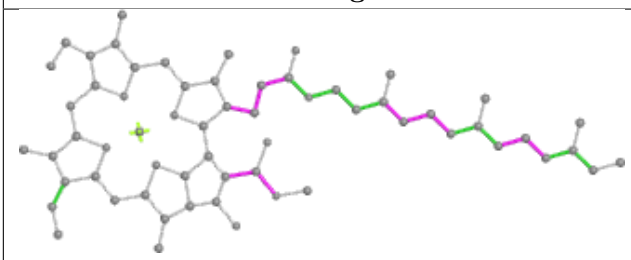
## Ligand CLA j 311



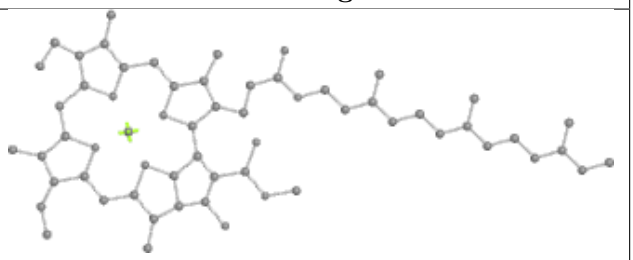
Bond lengths



Bond angles

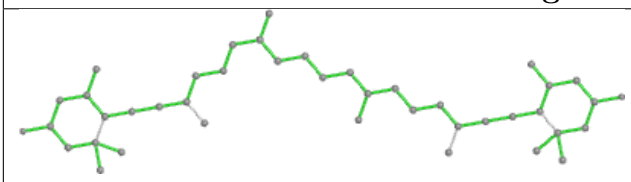


Torsions

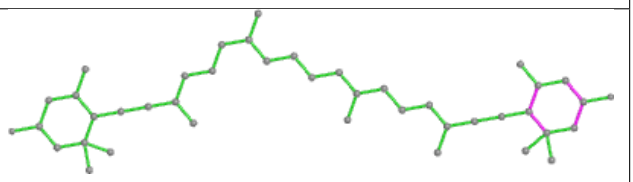


Rings

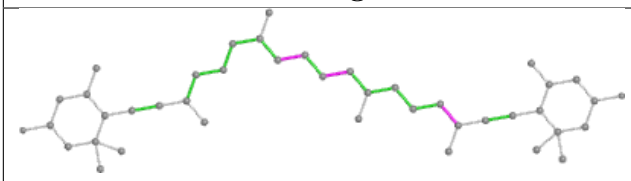
## Ligand II0 k 617



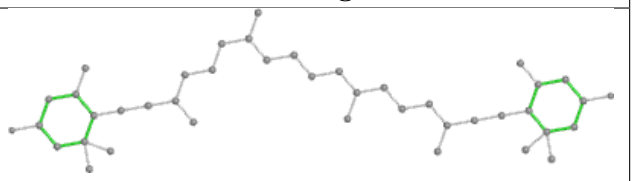
Bond lengths



Bond angles

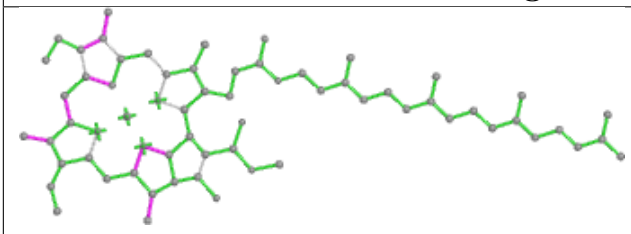


Torsions

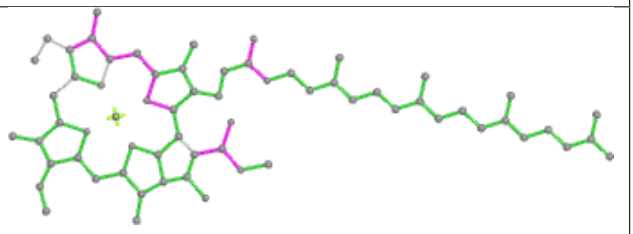


Rings

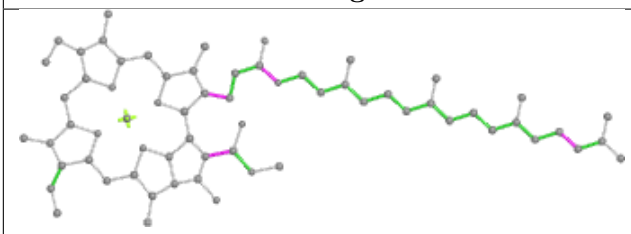
## Ligand CLA A 829



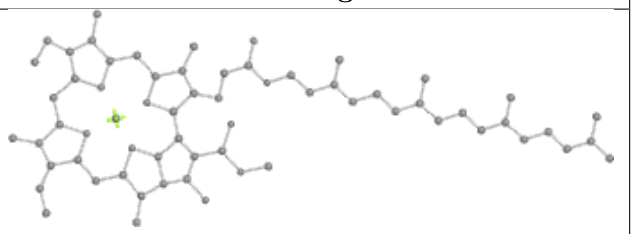
Bond lengths



Bond angles

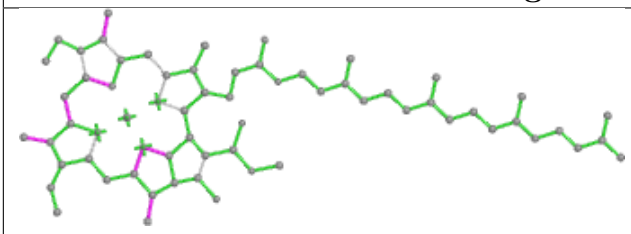


Torsions

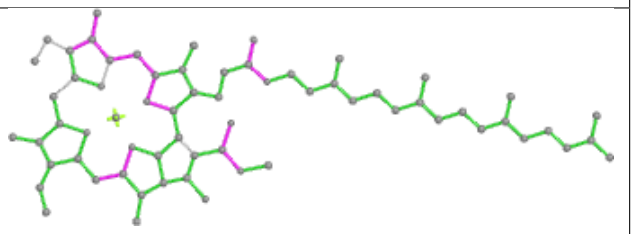


Rings

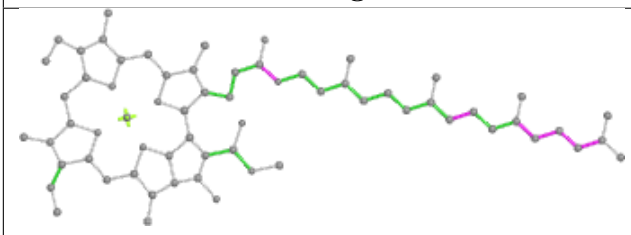
## Ligand CLA B 834



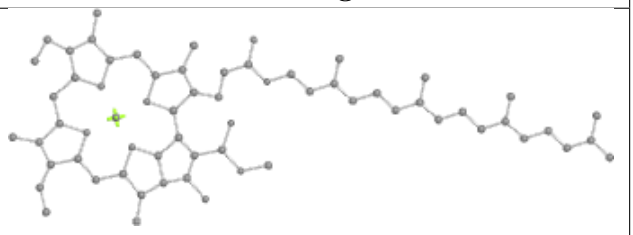
Bond lengths



Bond angles

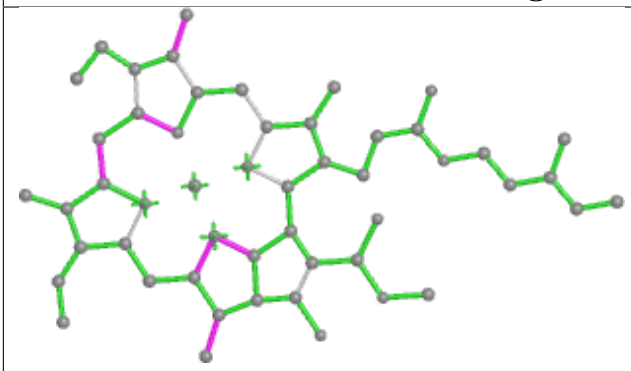


Torsions

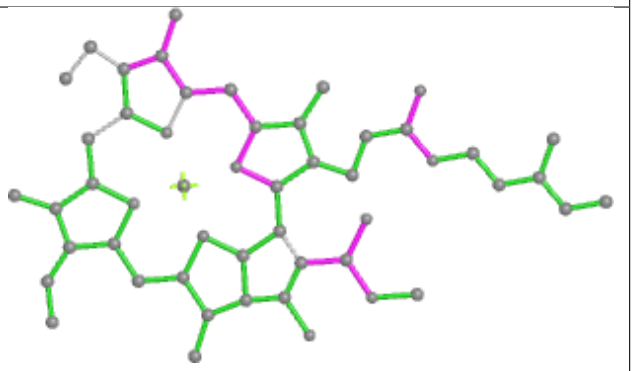


Rings

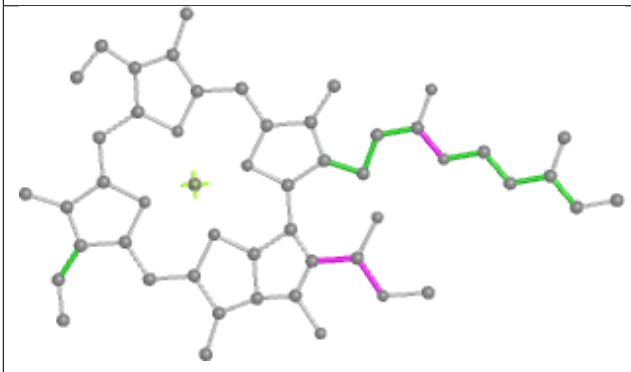
## Ligand CLA d 306



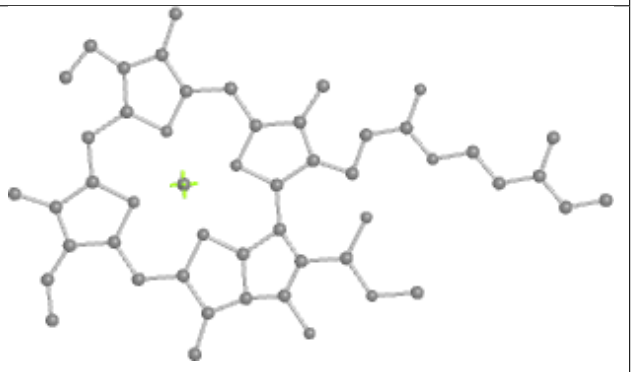
Bond lengths



Bond angles

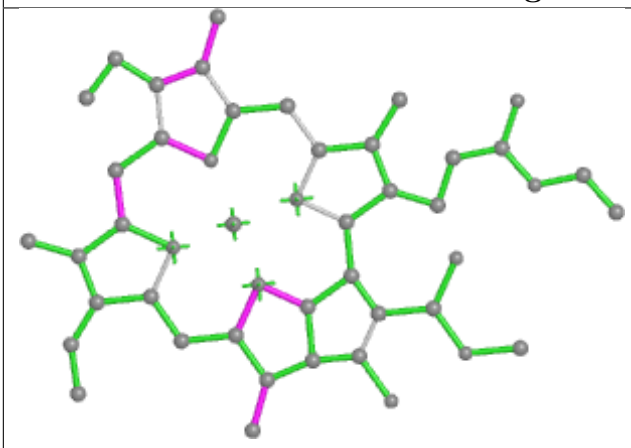


Torsions

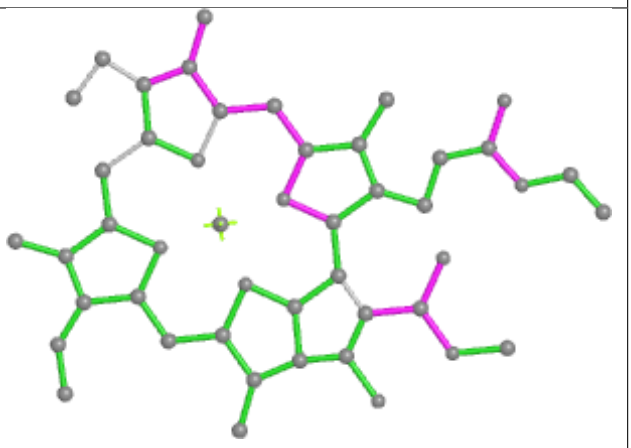


Rings

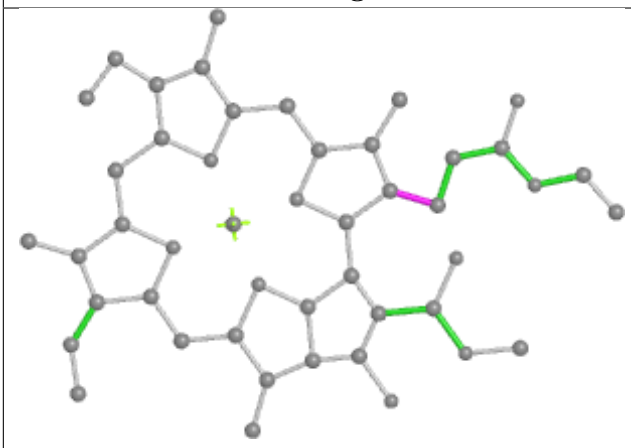
## Ligand CLA B 835



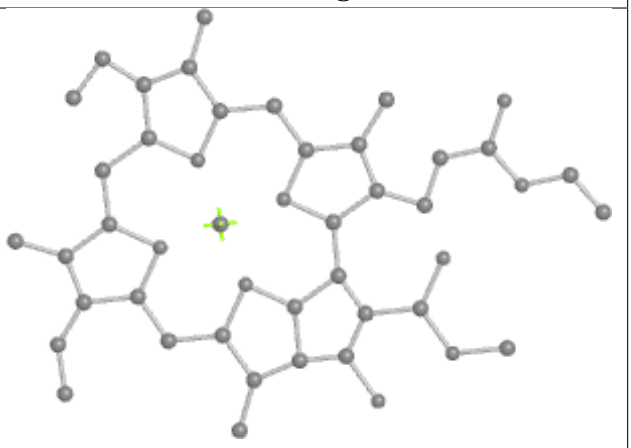
Bond lengths



Bond angles

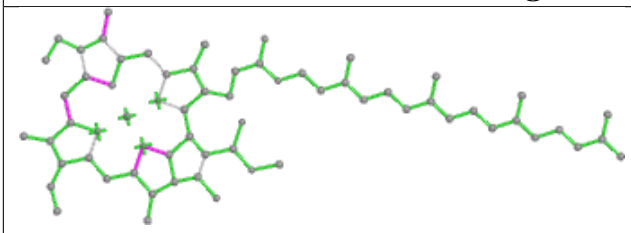


Torsions

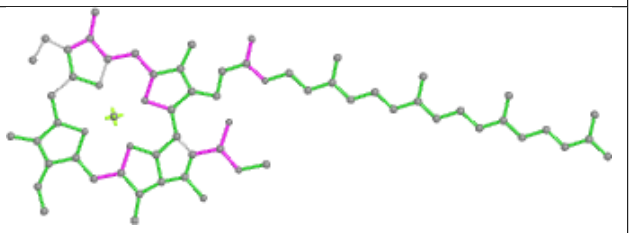


Rings

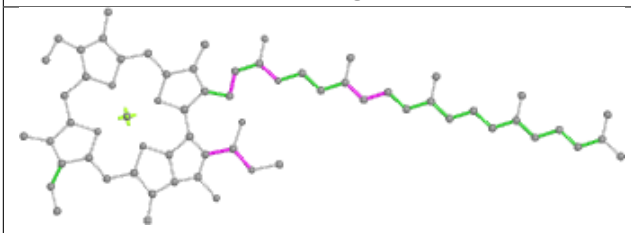
## Ligand CLA B 802



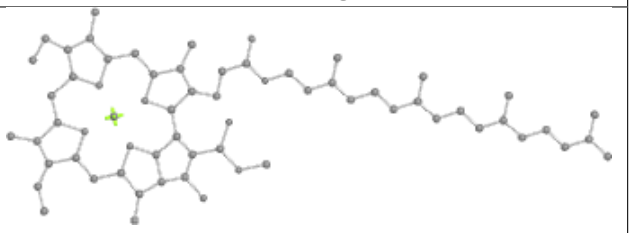
Bond lengths



Bond angles

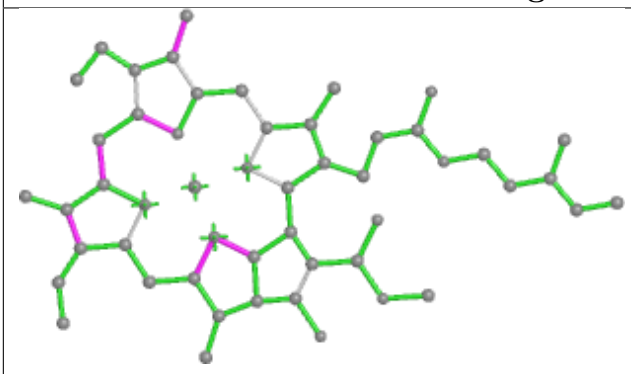


Torsions

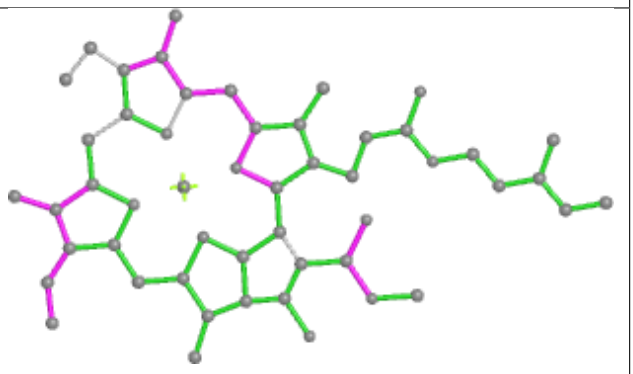


Rings

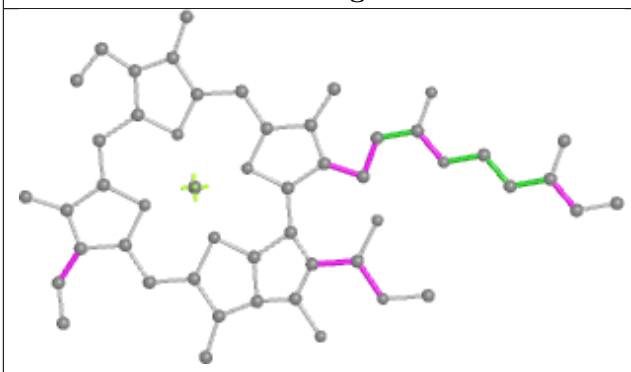
## Ligand CLA k 614



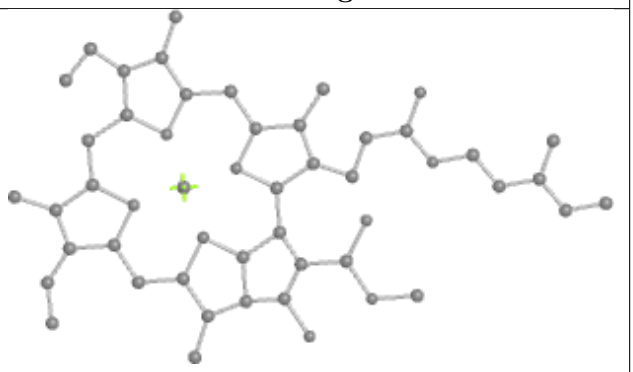
Bond lengths



Bond angles

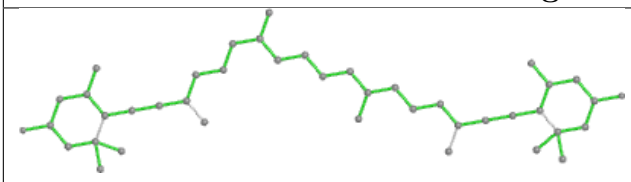


Torsions

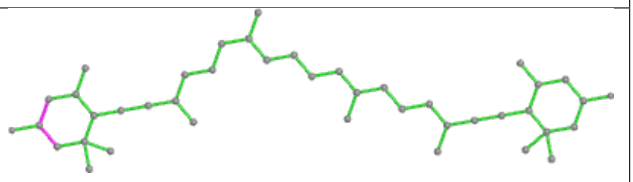


Rings

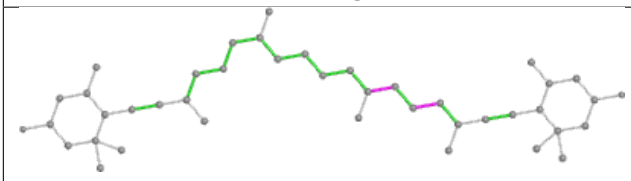
## Ligand II0 d 314



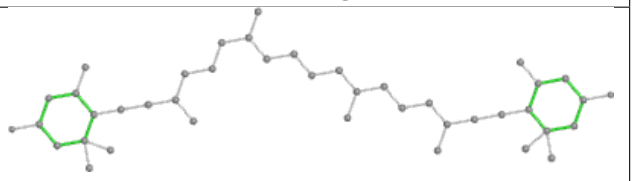
Bond lengths



Bond angles

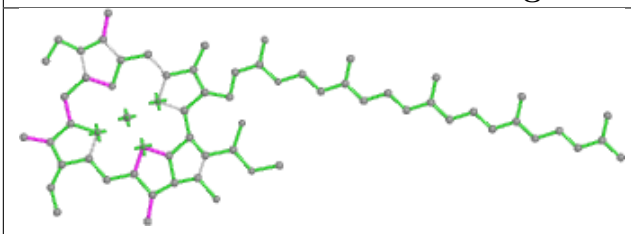


Torsions

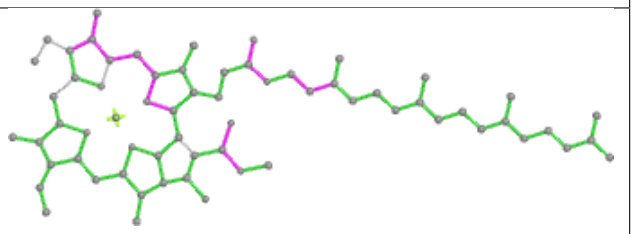


Rings

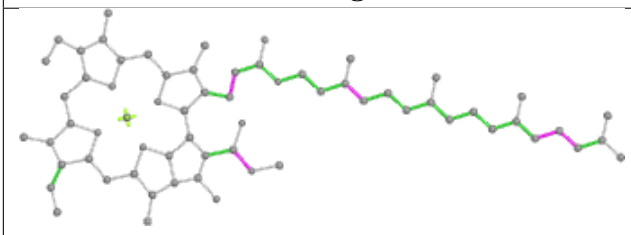
## Ligand CLA A 828



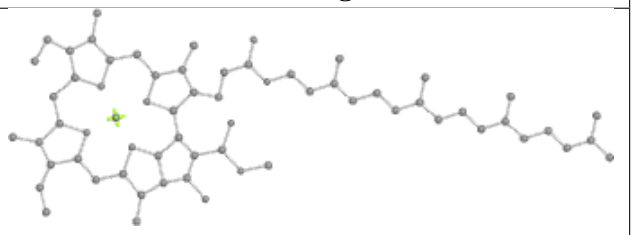
Bond lengths



Bond angles

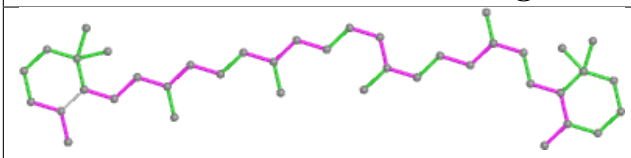


Torsions

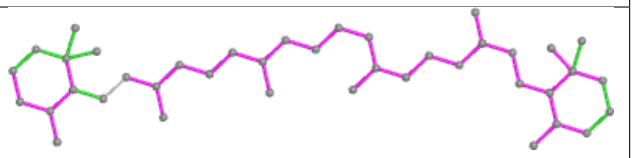


Rings

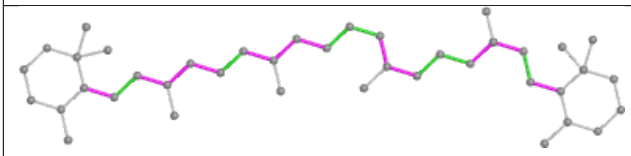
## Ligand WVN A 847



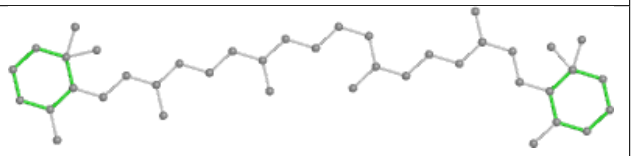
Bond lengths



Bond angles

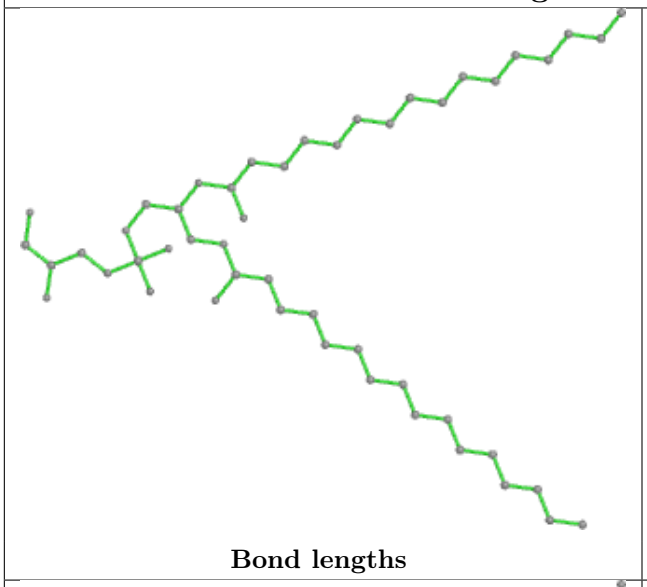


Torsions

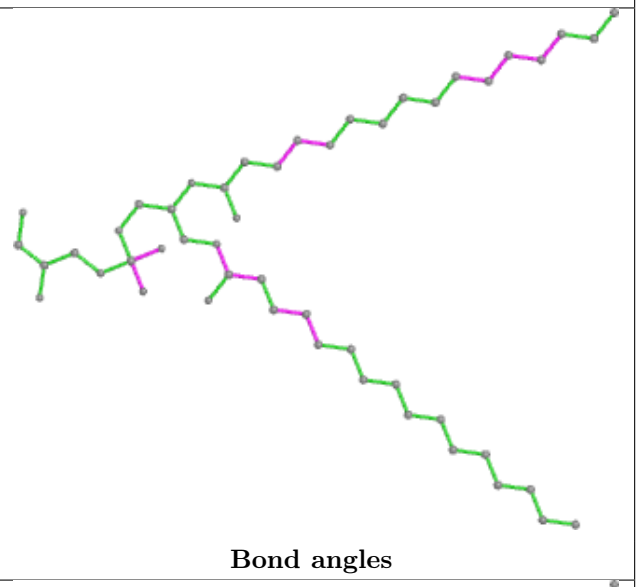


Rings

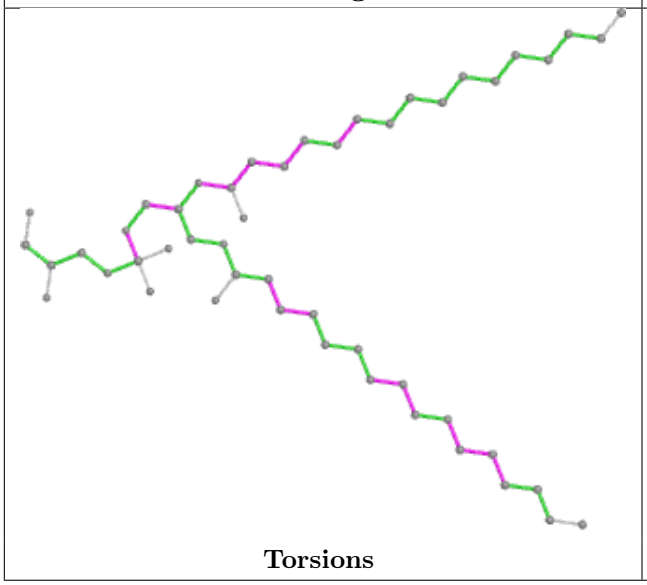
**Ligand LHG f 619**



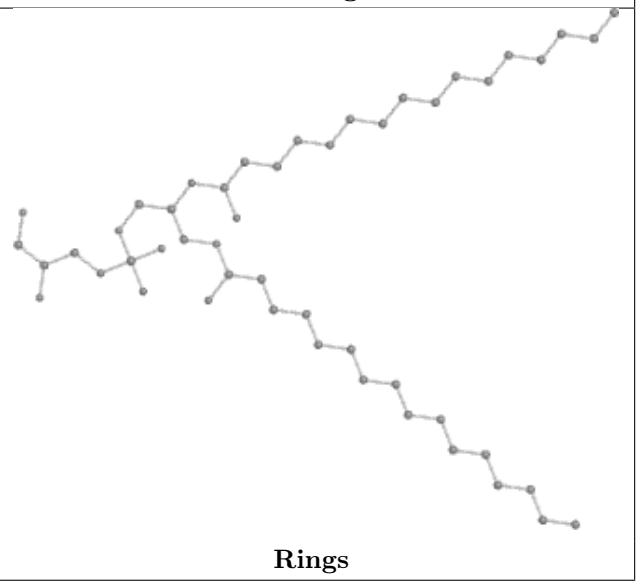
Bond lengths



Bond angles

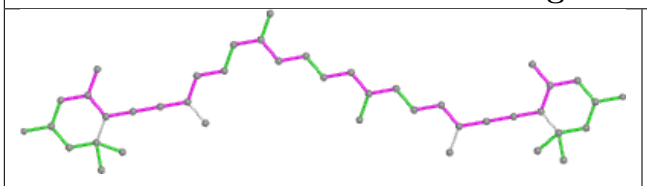


Torsions

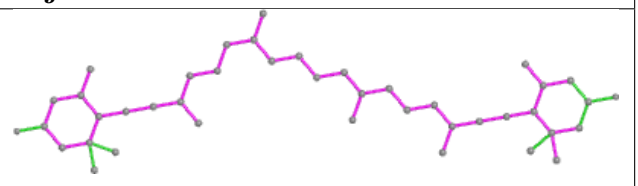


Rings

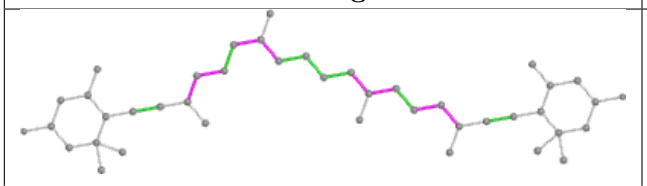
**Ligand II0 j 316**



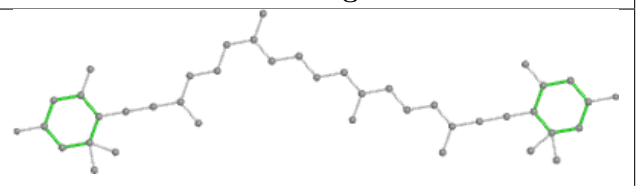
Bond lengths



Bond angles

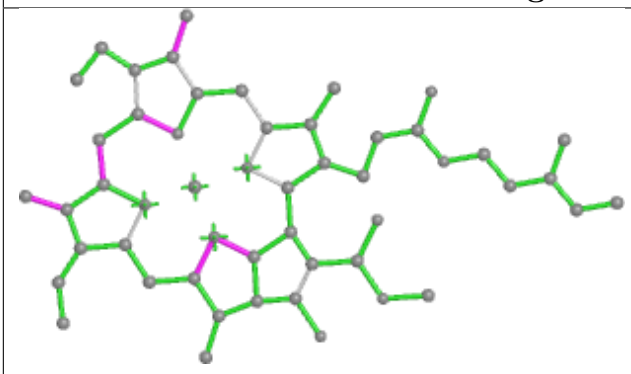


Torsions

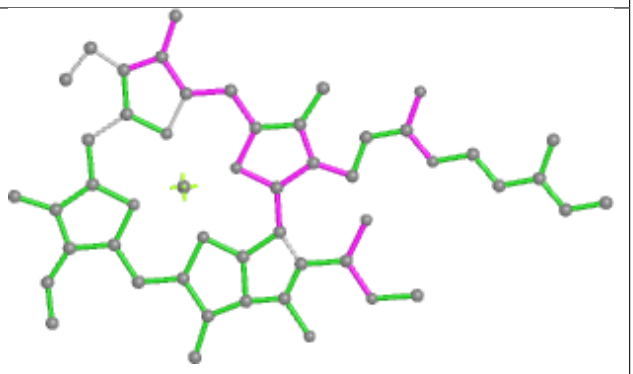


Rings

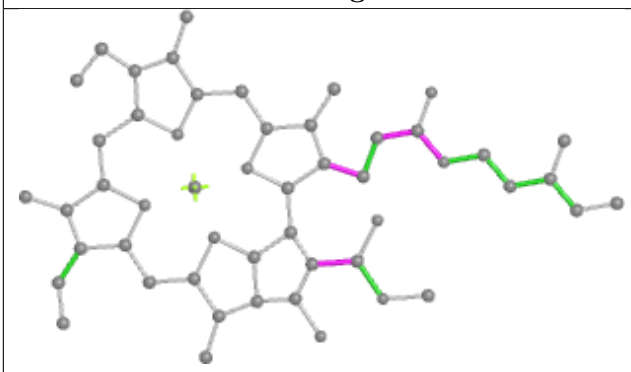
## Ligand CLA h 307



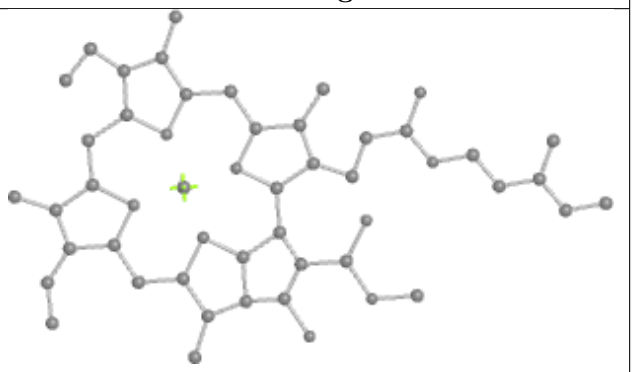
Bond lengths



Bond angles

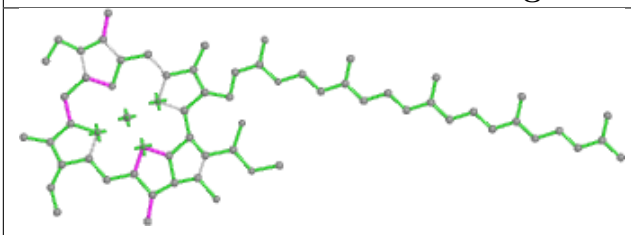


Torsions

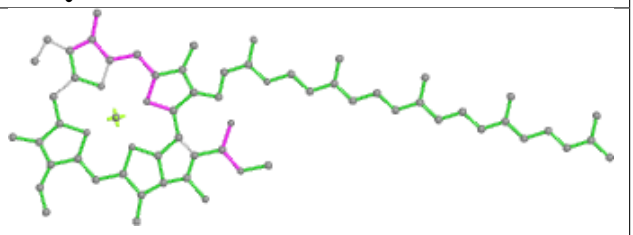


Rings

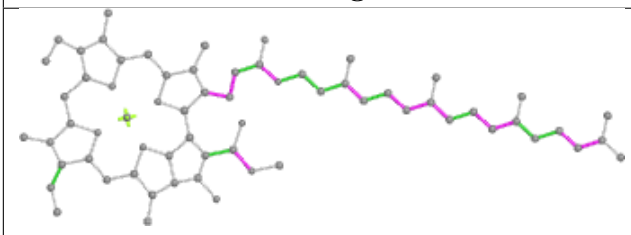
## Ligand CLA Q 302



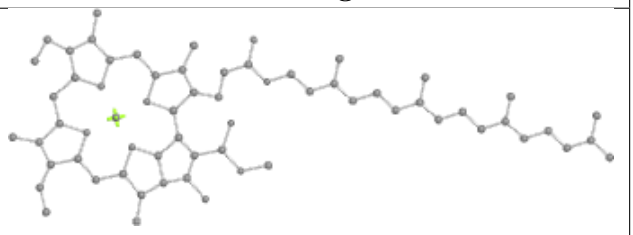
Bond lengths



Bond angles

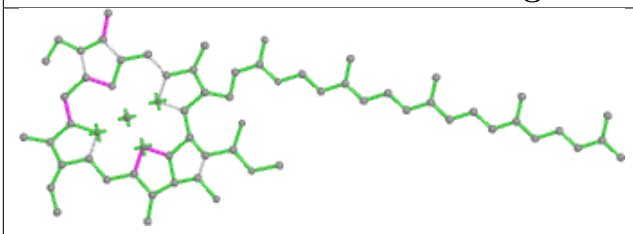


Torsions

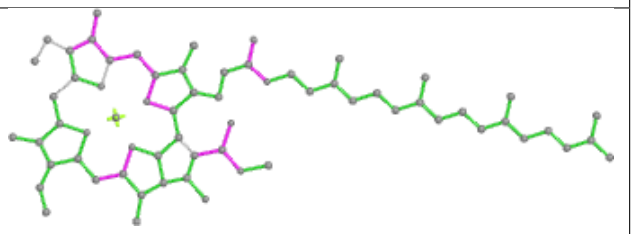


Rings

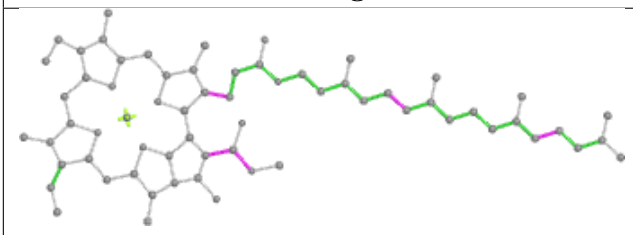
## Ligand CLA A 832



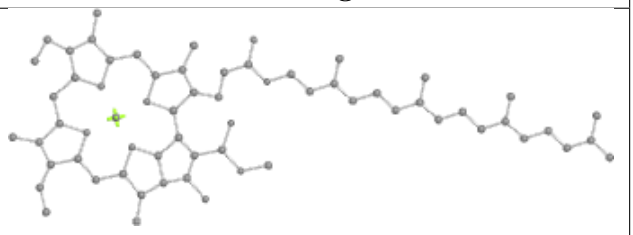
Bond lengths



Bond angles

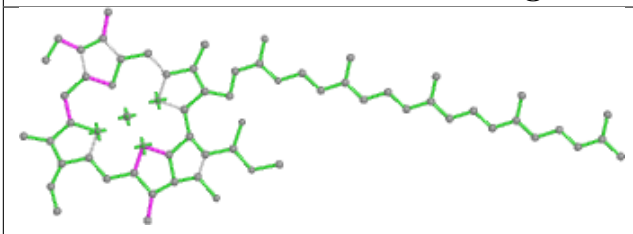


Torsions

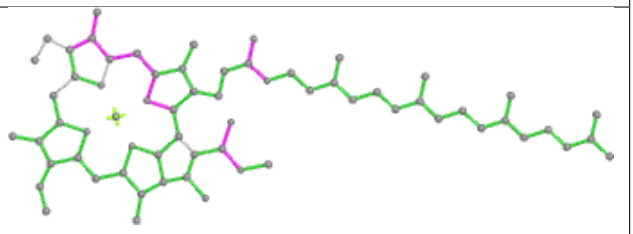


Rings

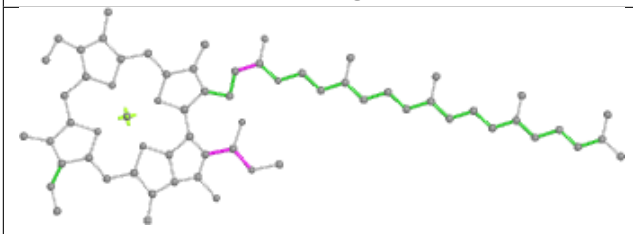
## Ligand CLA B 842



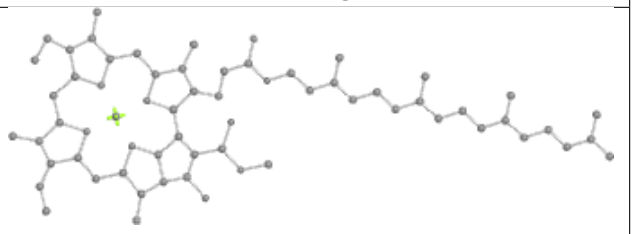
Bond lengths



Bond angles

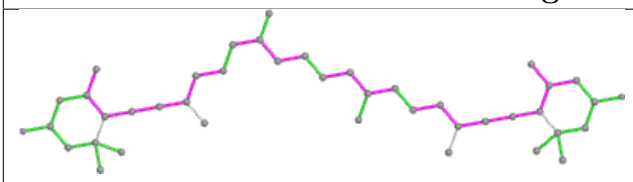


Torsions

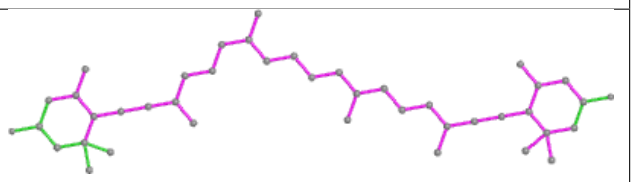


Rings

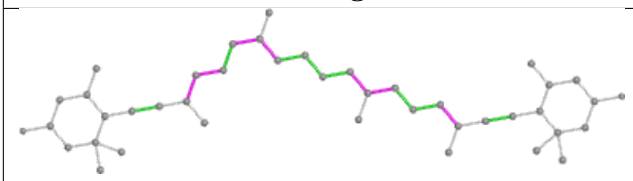
## Ligand II0 n 616



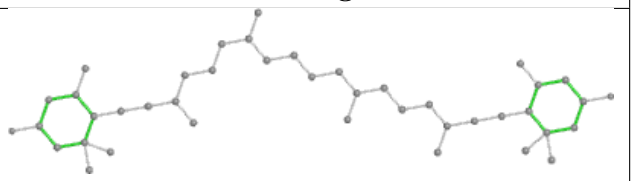
Bond lengths



Bond angles

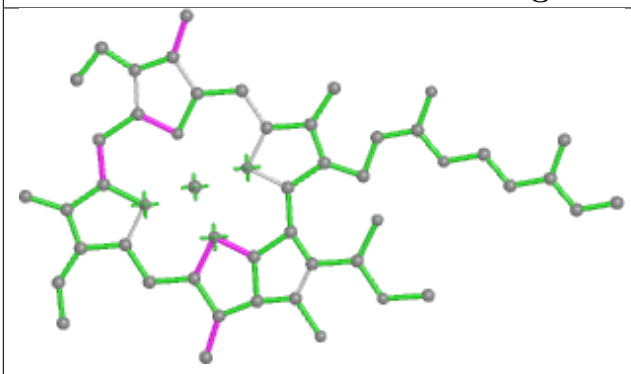


Torsions

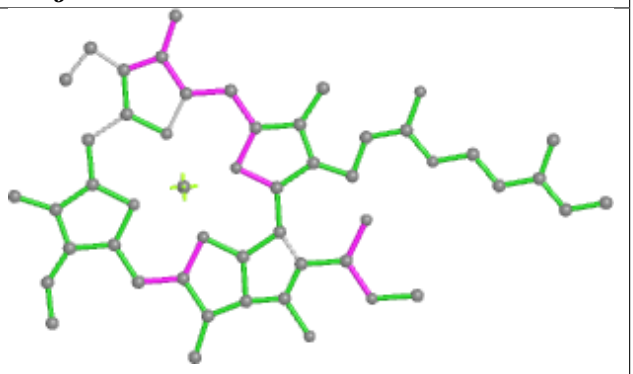


Rings

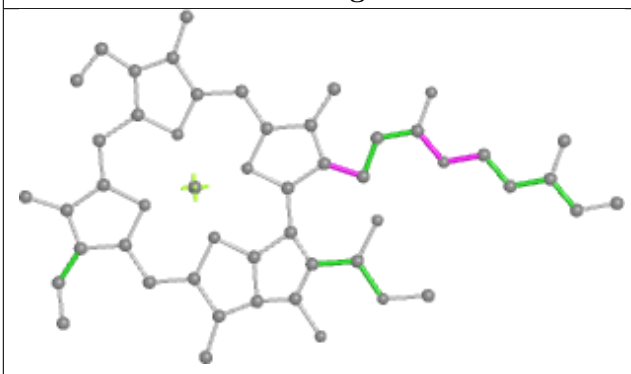
**Ligand CLA j 307**



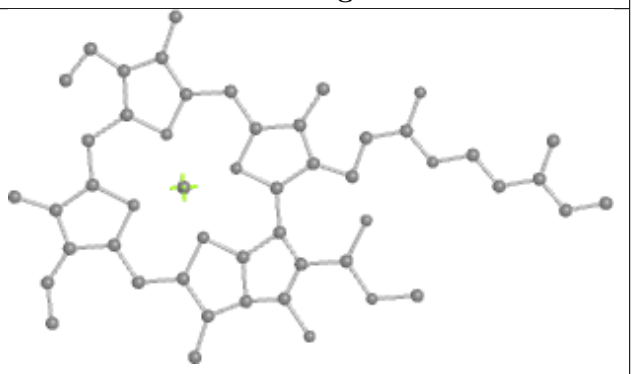
Bond lengths



Bond angles

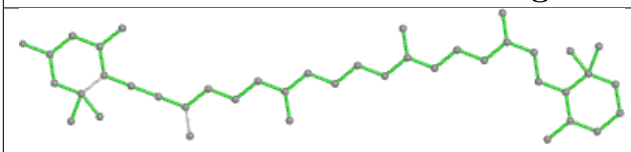


Torsions

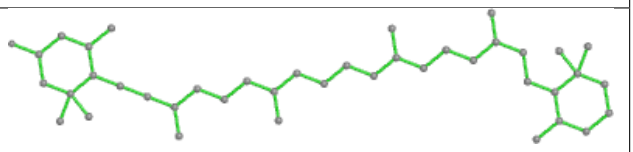


Rings

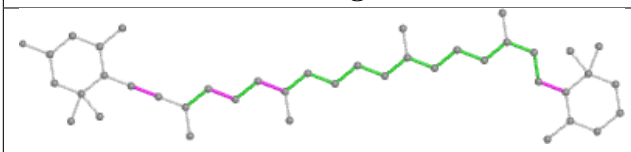
**Ligand IHT n 617**



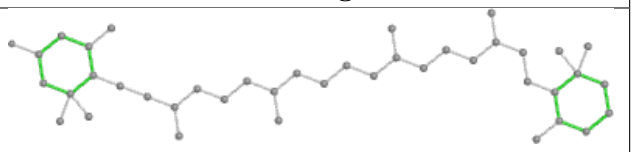
Bond lengths



Bond angles

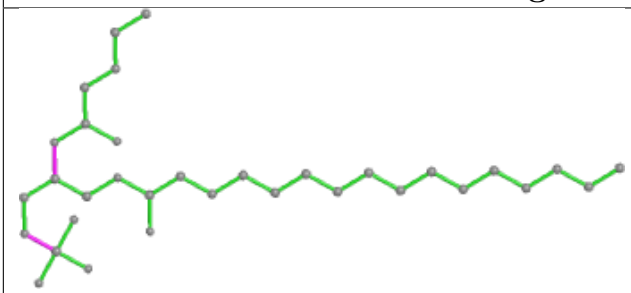


Torsions

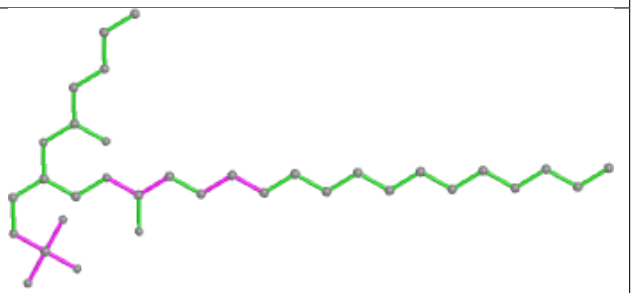


Rings

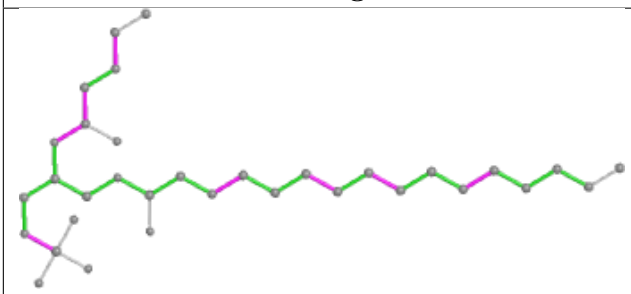
## Ligand LHG s 408



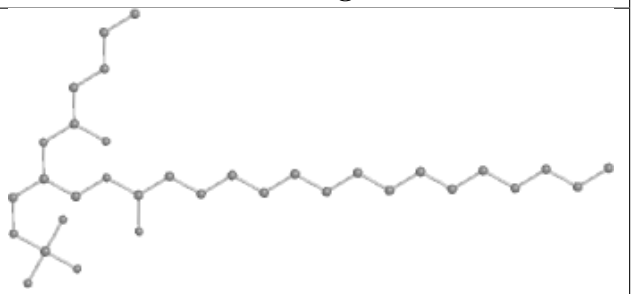
Bond lengths



Bond angles

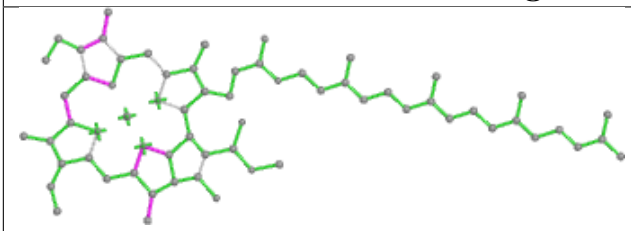


Torsions

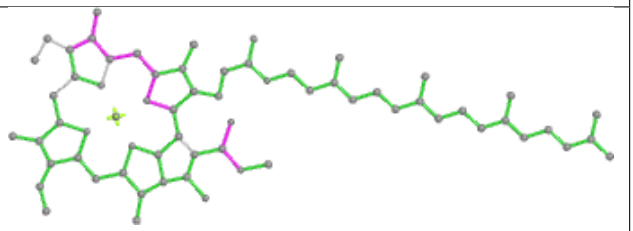


Rings

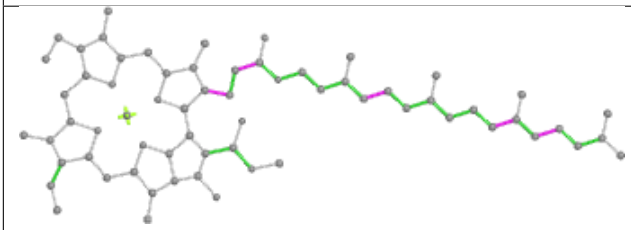
## Ligand CLA B 809



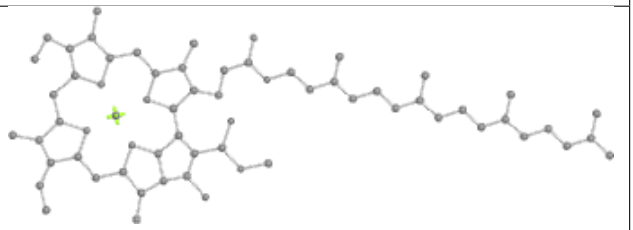
Bond lengths



Bond angles

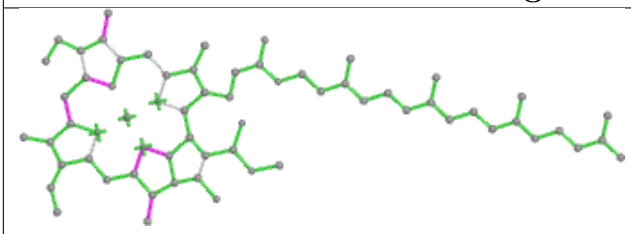


Torsions

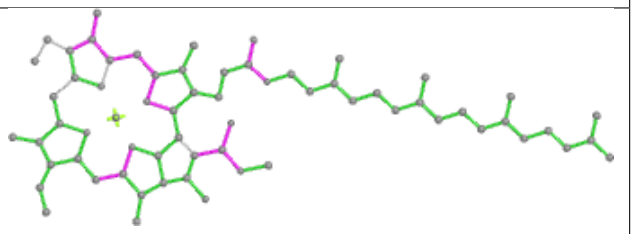


Rings

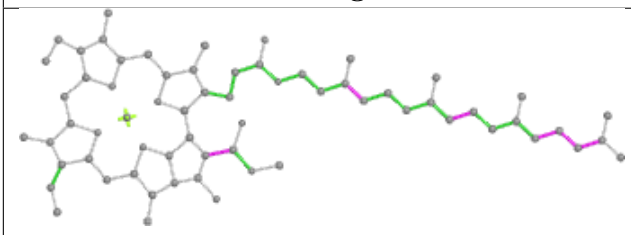
## Ligand CLA B 810



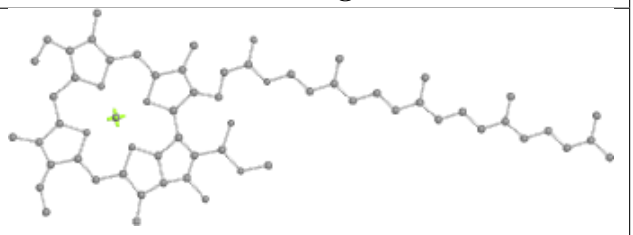
Bond lengths



Bond angles

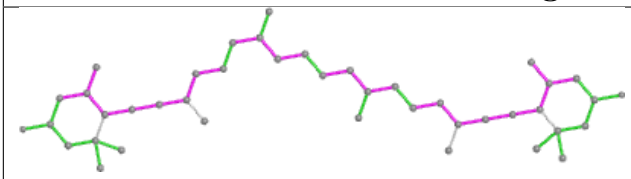


Torsions

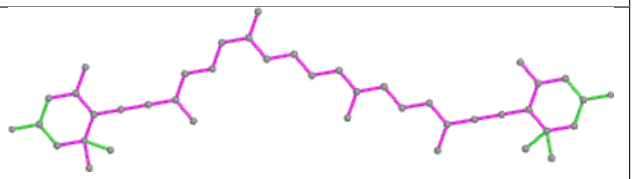


Rings

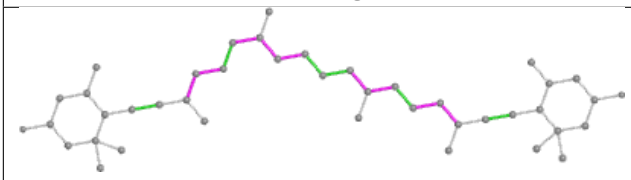
## Ligand II0 b 301



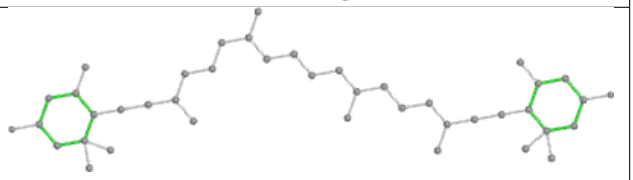
Bond lengths



Bond angles

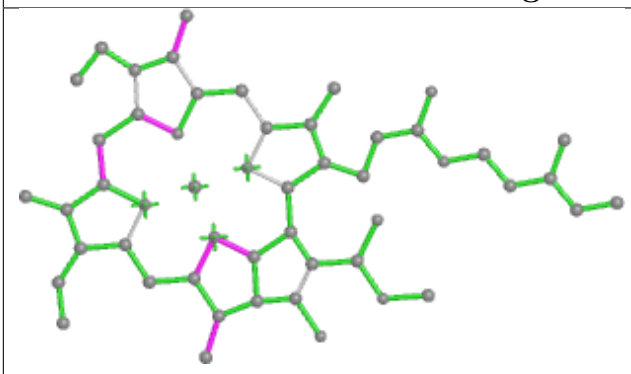


Torsions

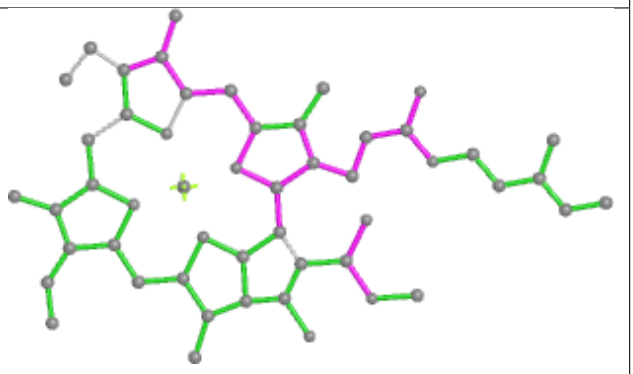


Rings

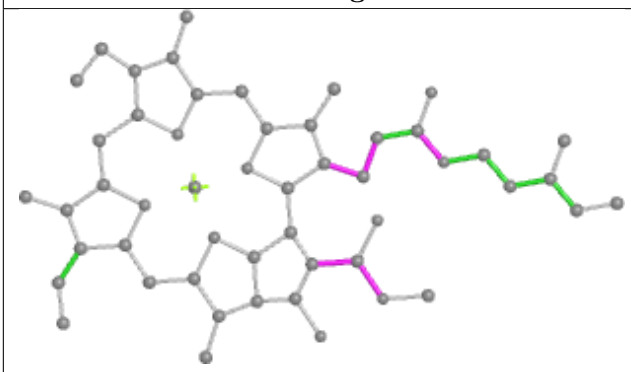
## Ligand CLA m 612



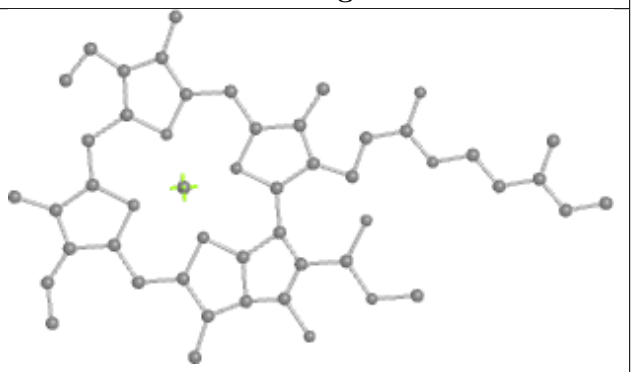
Bond lengths



Bond angles

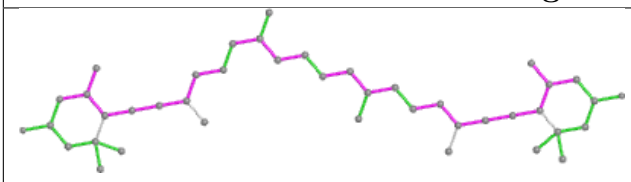


Torsions

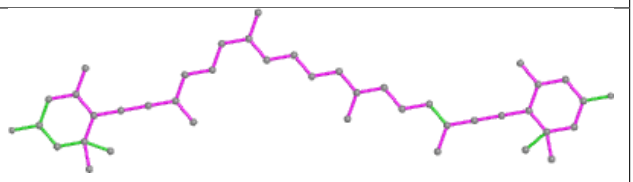


Rings

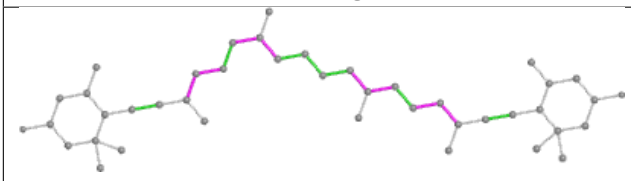
## Ligand II0 k 616



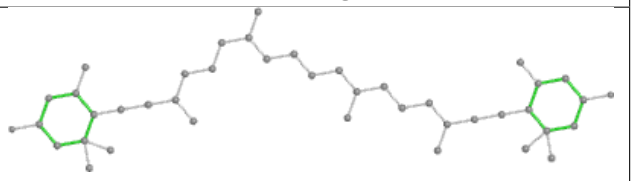
Bond lengths



Bond angles

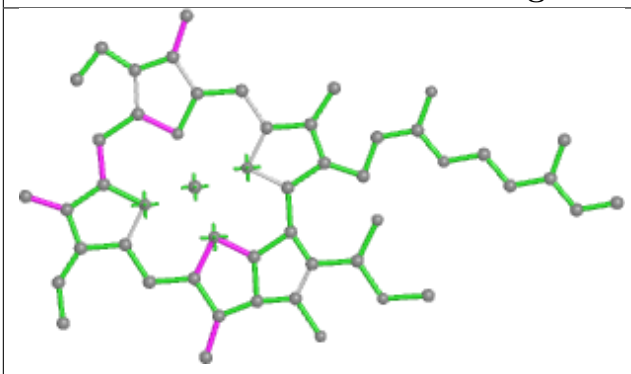


Torsions

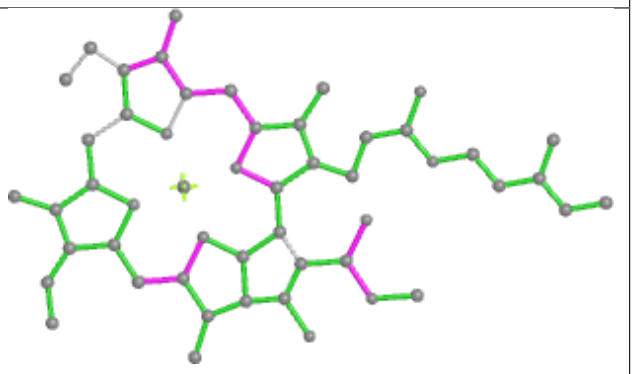


Rings

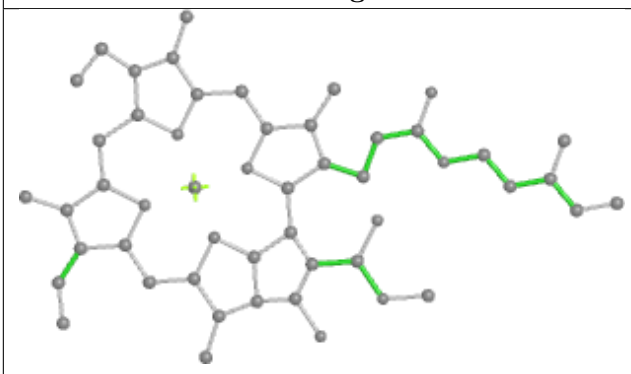
## Ligand CLA k 603



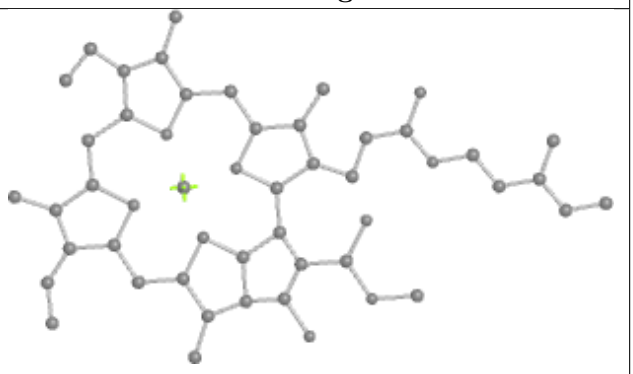
Bond lengths



Bond angles

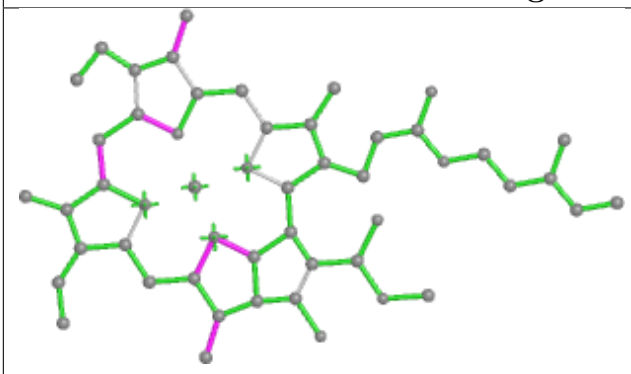


Torsions

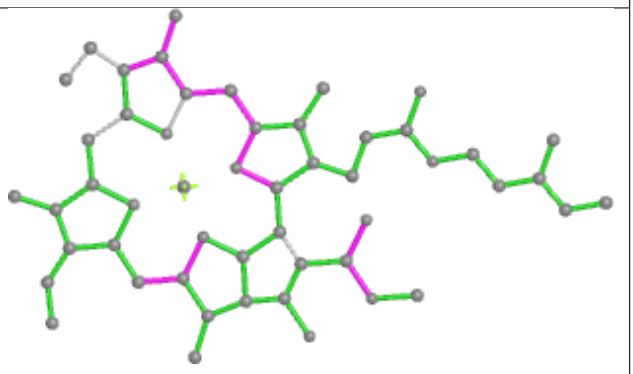


Rings

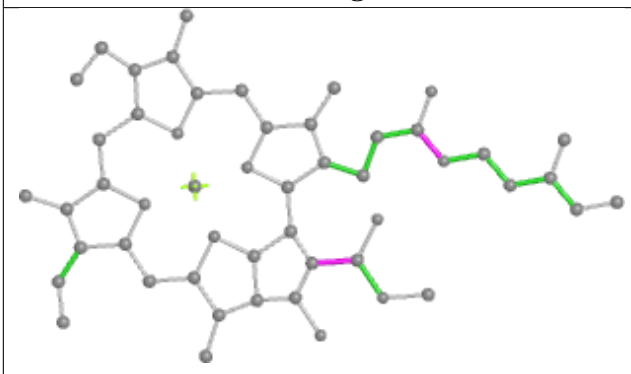
## Ligand CLA n 606



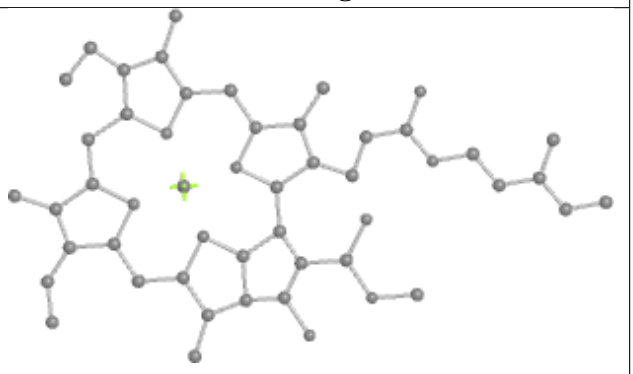
Bond lengths



Bond angles

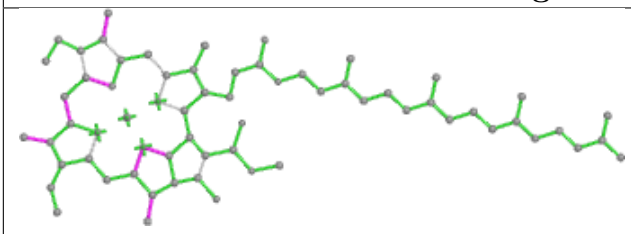


Torsions

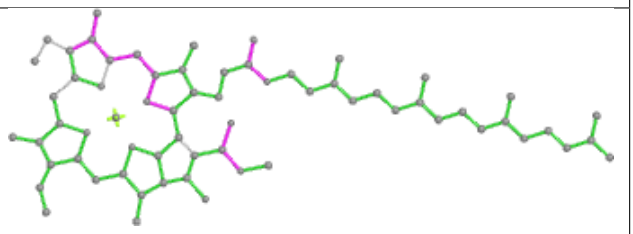


Rings

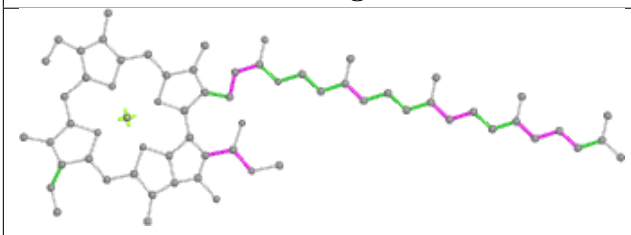
**Ligand CLA l 306**



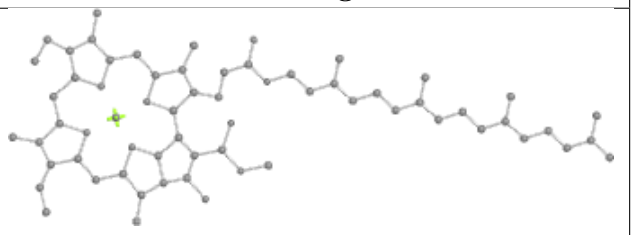
Bond lengths



Bond angles

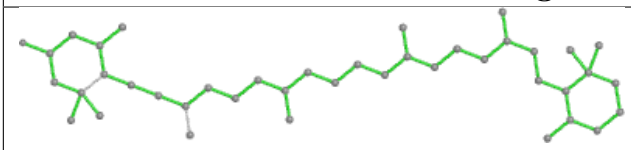


Torsions

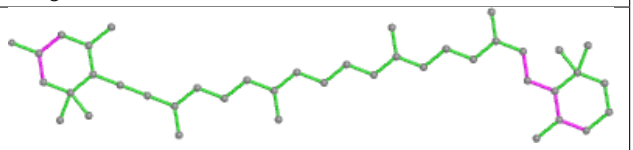


Rings

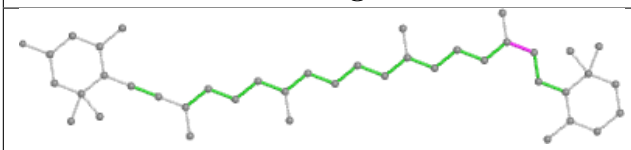
**Ligand IHT j 317**



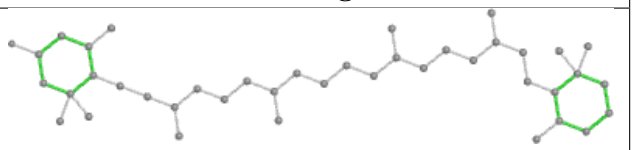
Bond lengths



Bond angles

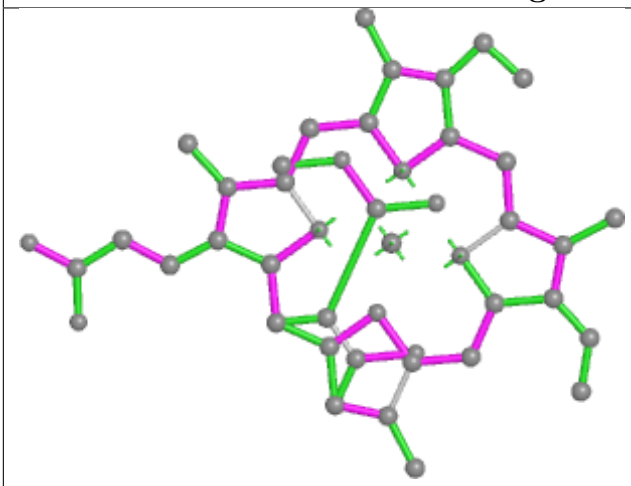


Torsions

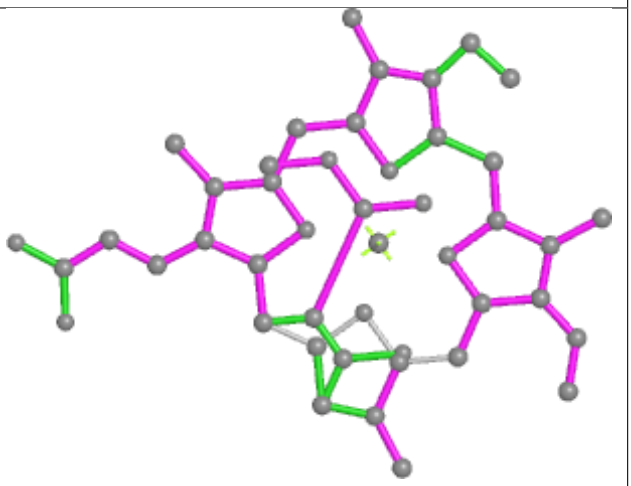


Rings

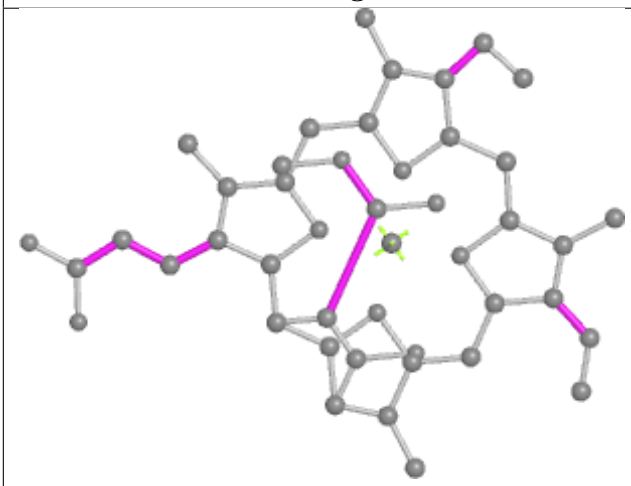
## Ligand KC2 d 311



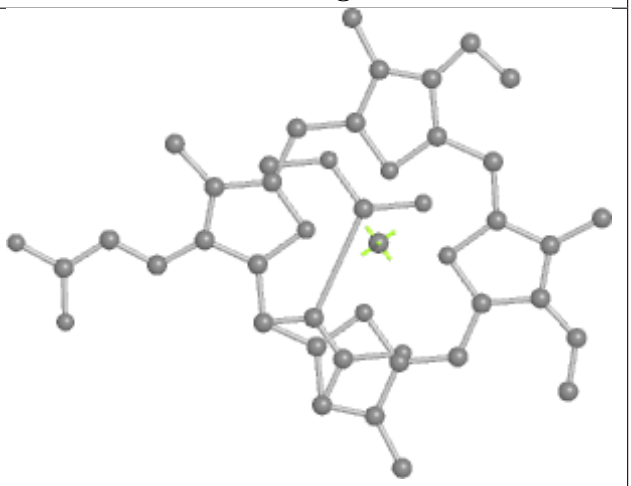
Bond lengths



Bond angles

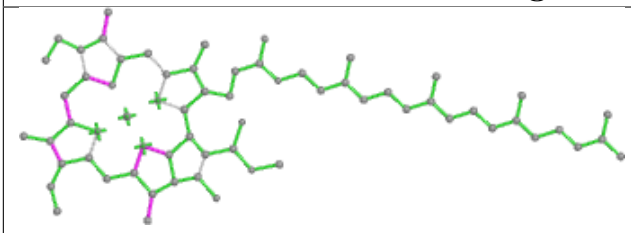


Torsions

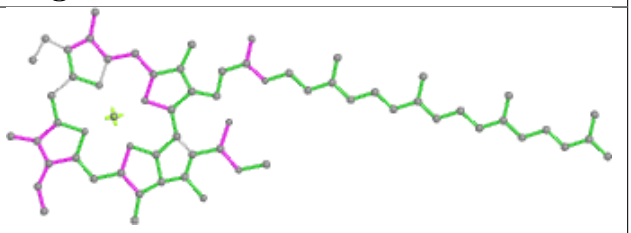


Rings

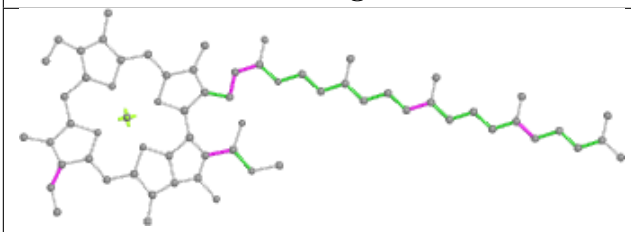
## Ligand CLA g 306



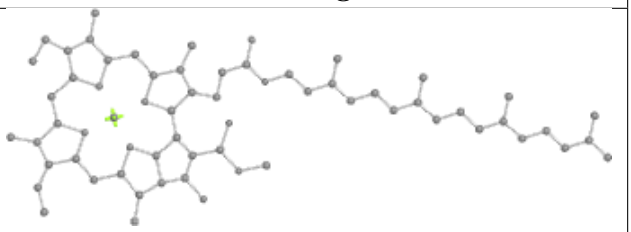
Bond lengths



Bond angles

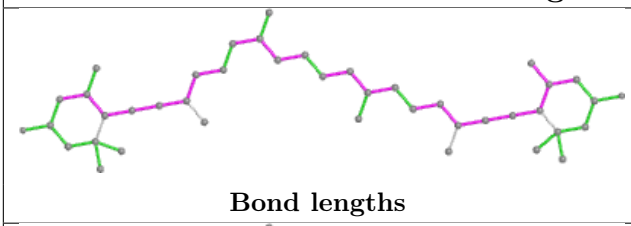


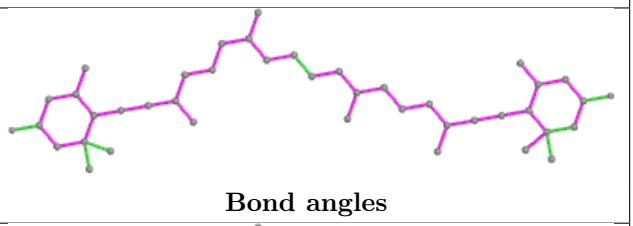
Torsions

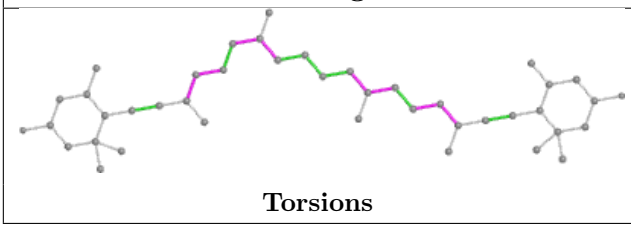


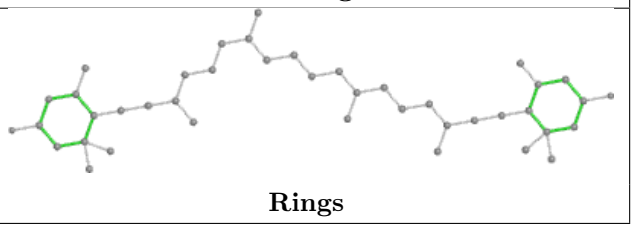
Rings

## Ligand II0 l 313

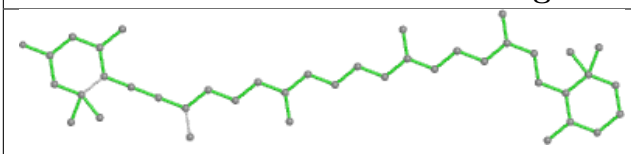

Bond lengths

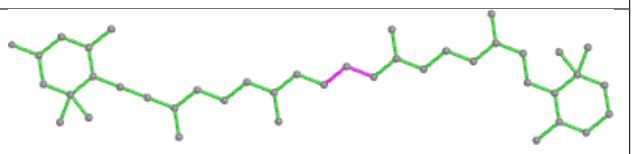

Bond angles

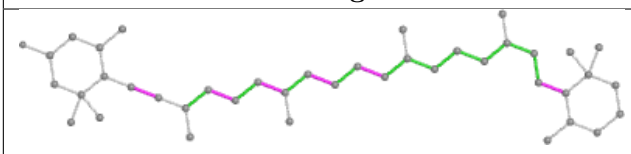

Torsions

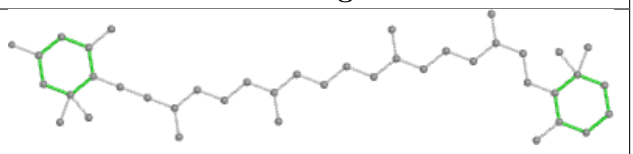

Rings

## Ligand IHT c 319

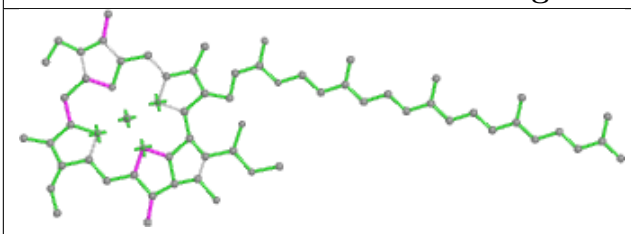

Bond lengths

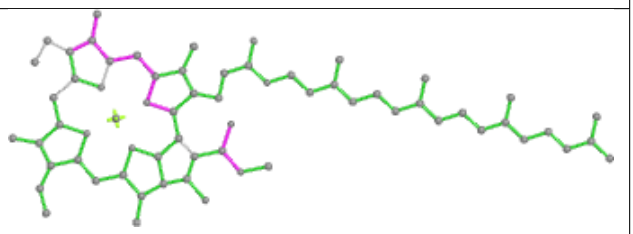

Bond angles

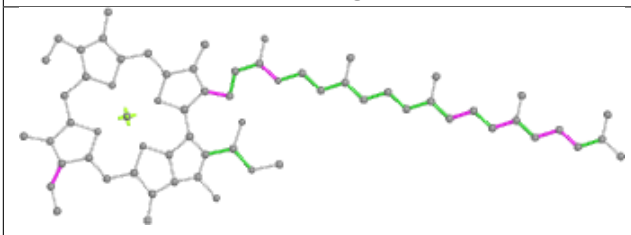

Torsions

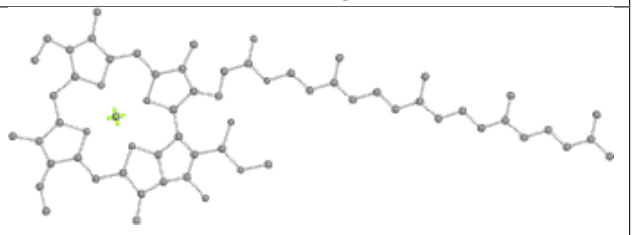

Rings

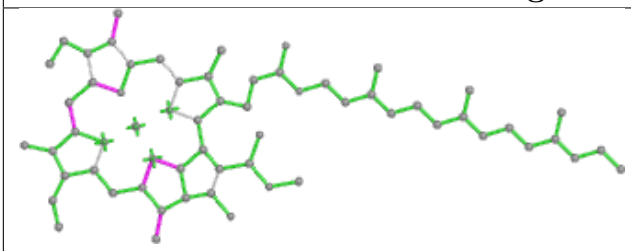
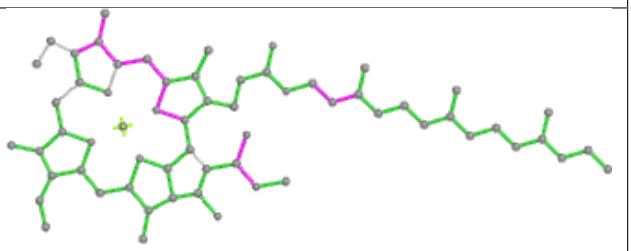
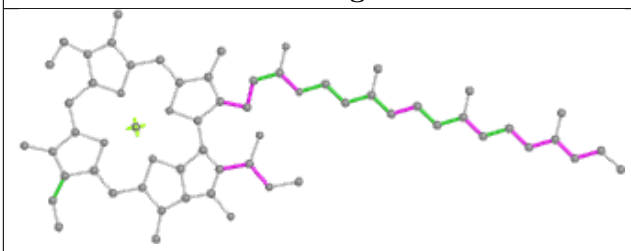
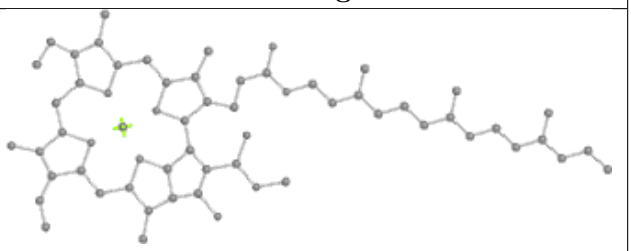
## Ligand CLA f 610

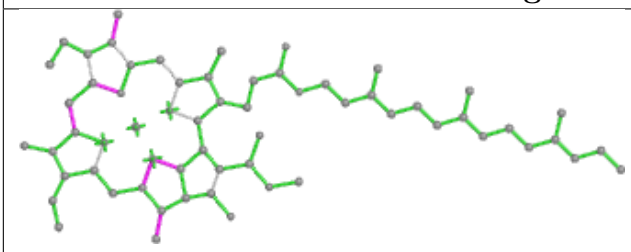
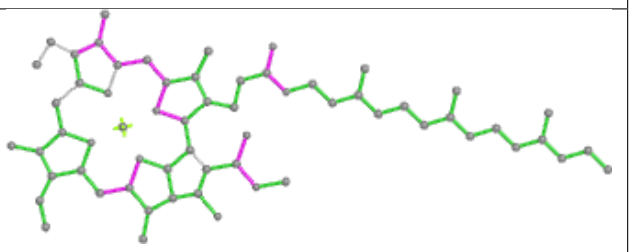
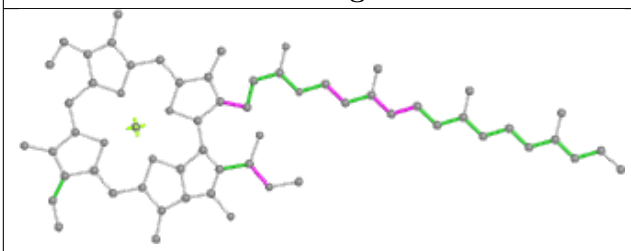
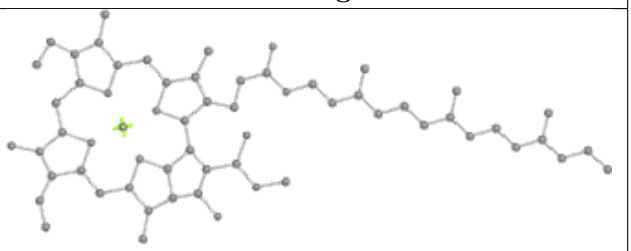

Bond lengths


Bond angles

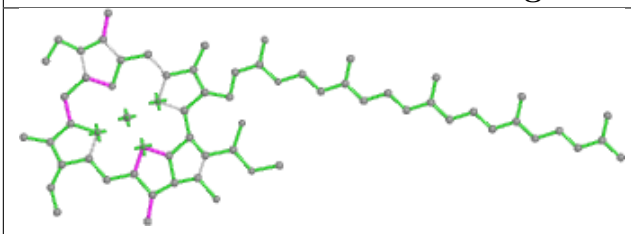

Torsions


Rings

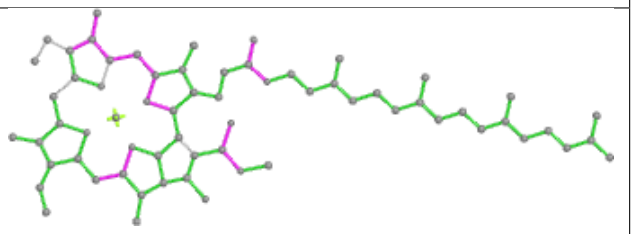
| Ligand CLA d 302 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

| Ligand CLA A 827 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

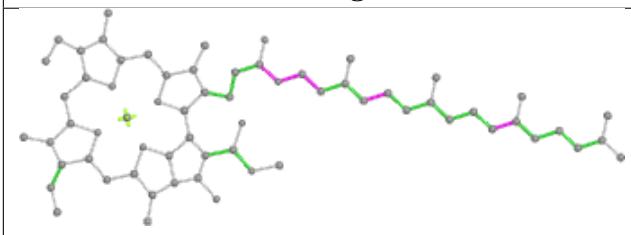
## Ligand CLA B 831



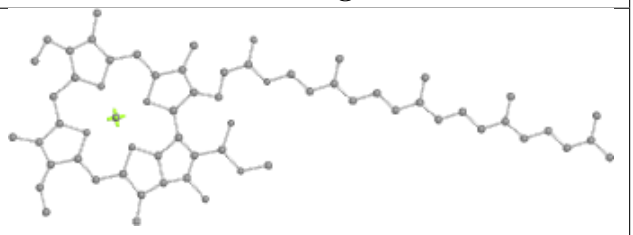
Bond lengths



Bond angles

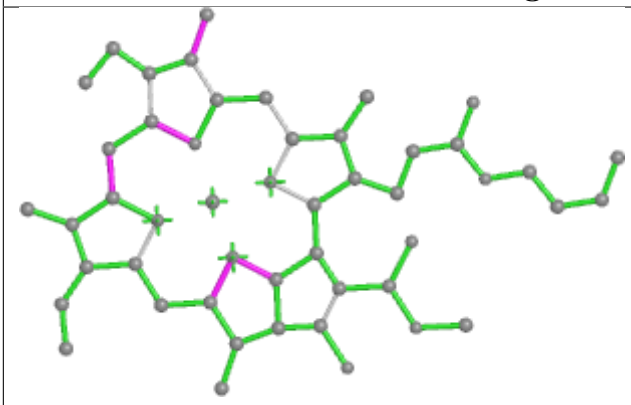


Torsions

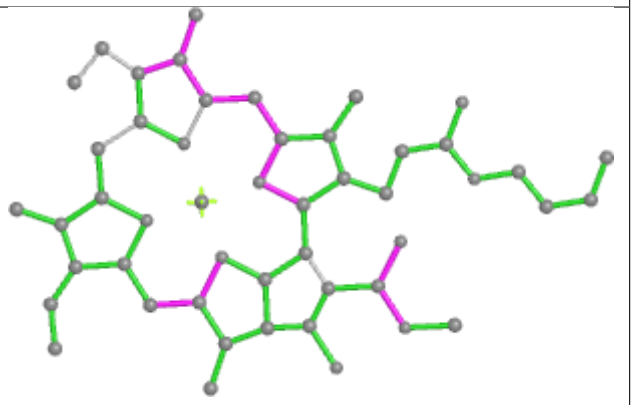


Rings

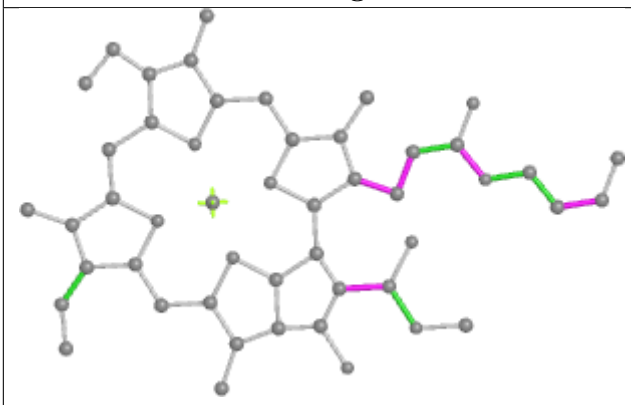
## Ligand CLA A 821



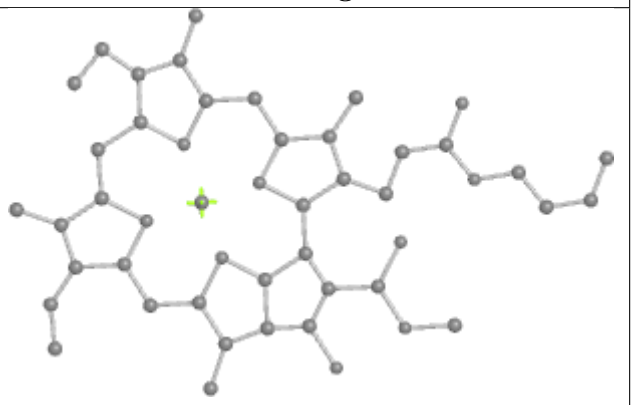
Bond lengths



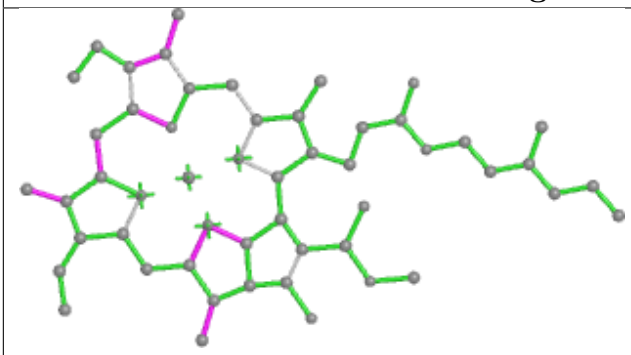
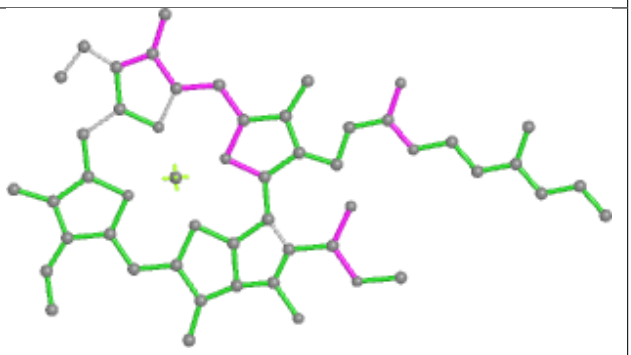
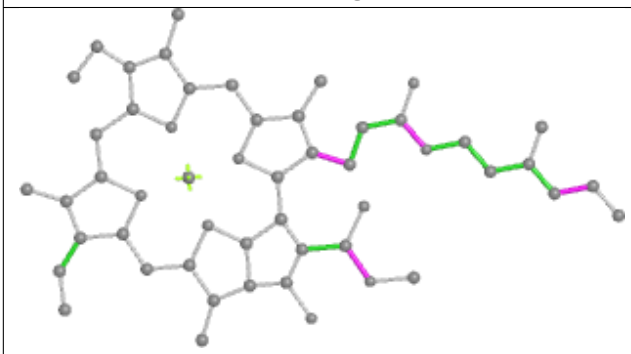
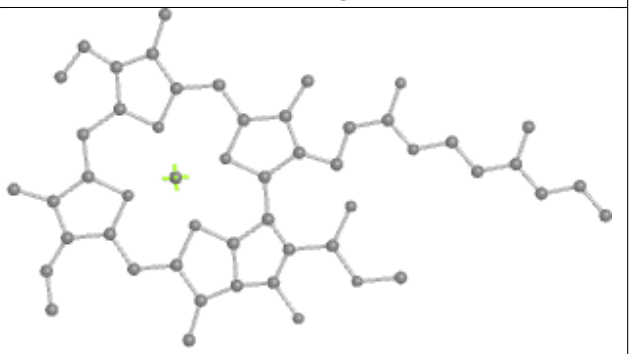
Bond angles

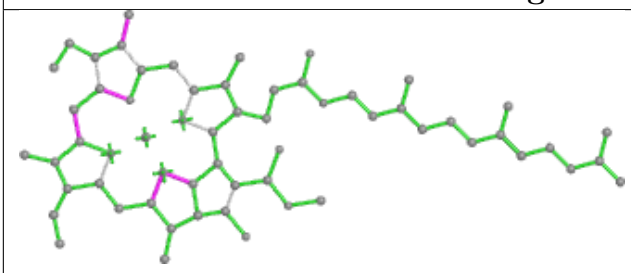
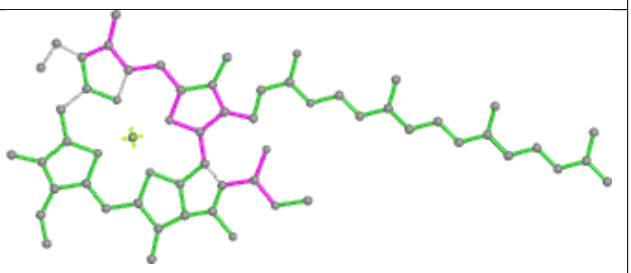
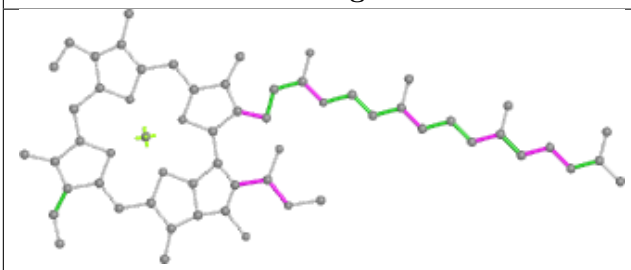
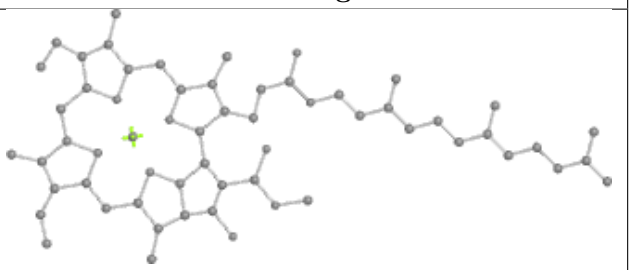


Torsions

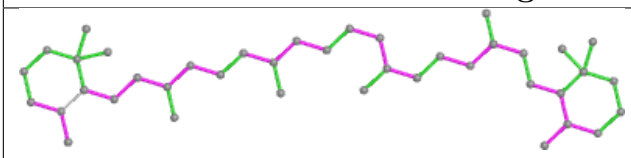


Rings

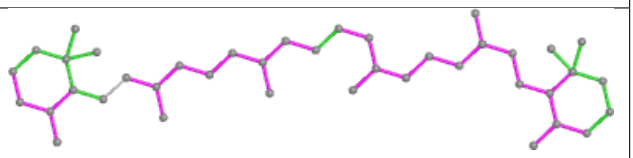
| Ligand CLA c 306 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

| Ligand CLA n 610 | |
|---|---|
|  |  |
| Bond lengths | Bond angles |
|  |  |
| Torsions | Rings |

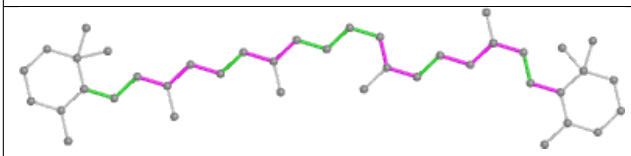
## Ligand WVN F 207



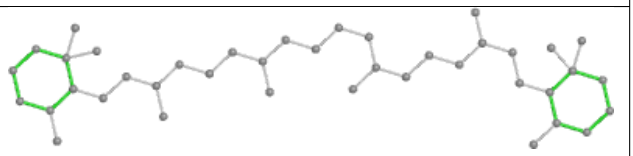
Bond lengths



Bond angles

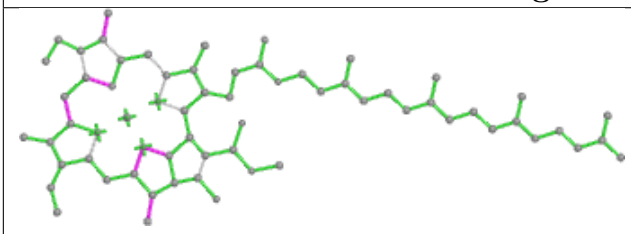


Torsions

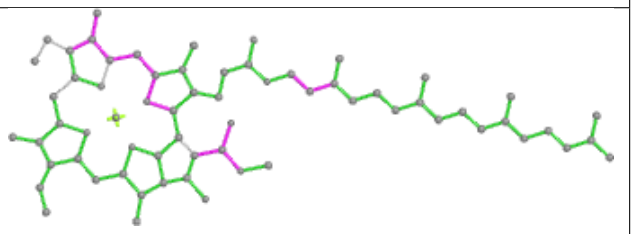


Rings

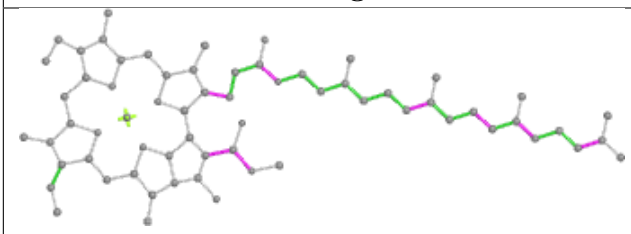
## Ligand CLA l 304



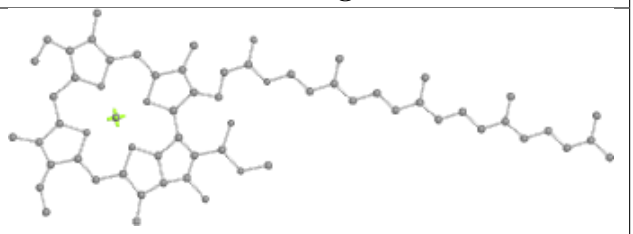
Bond lengths



Bond angles

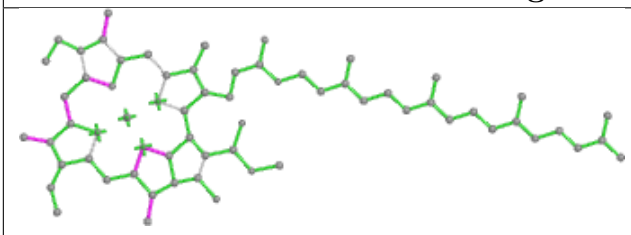


Torsions

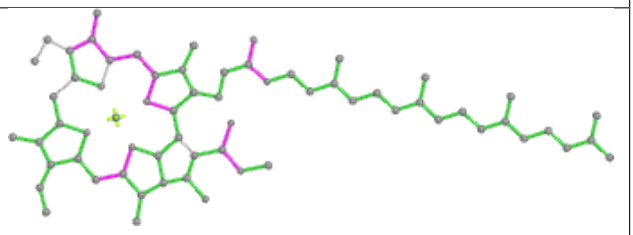


Rings

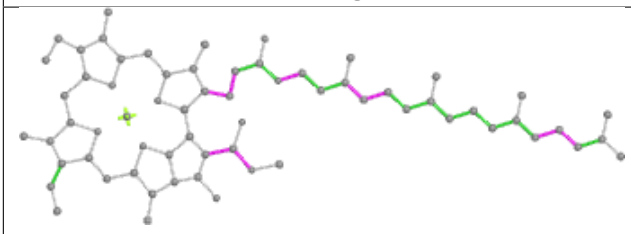
## Ligand CLA n 609



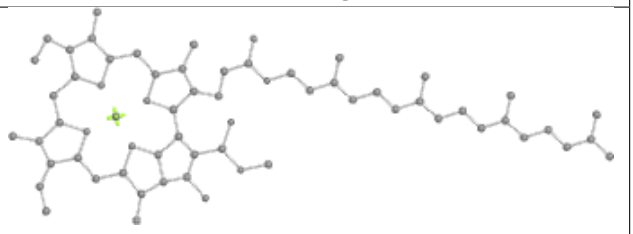
Bond lengths



Bond angles

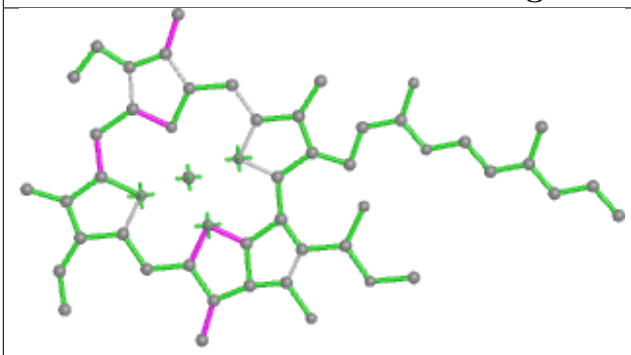


Torsions

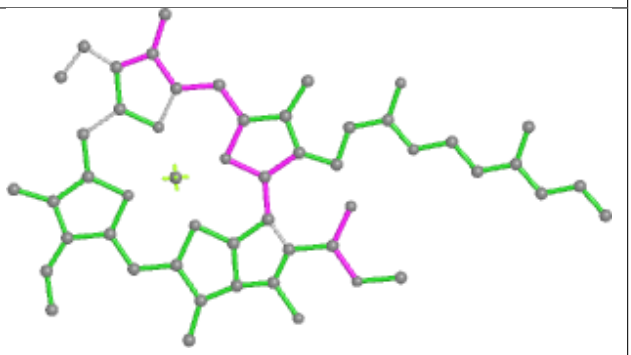


Rings

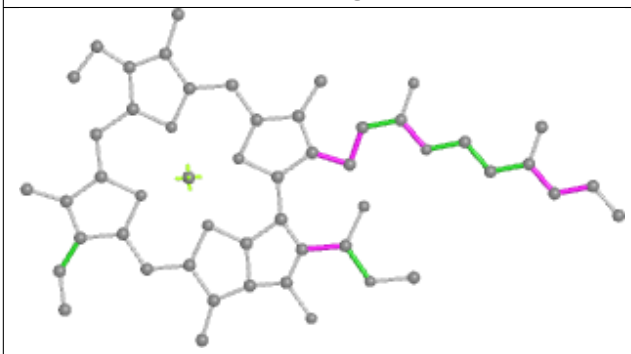
**Ligand CLA F 203**



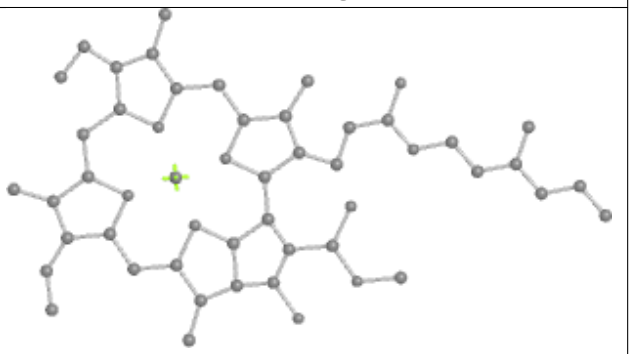
**Bond lengths**



**Bond angles**

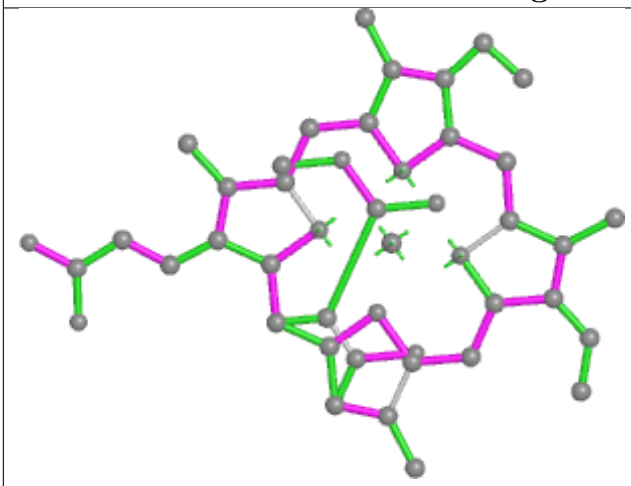


**Torsions**

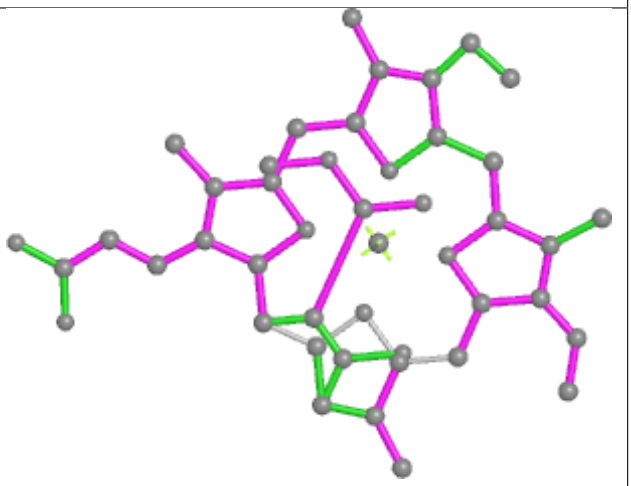


**Rings**

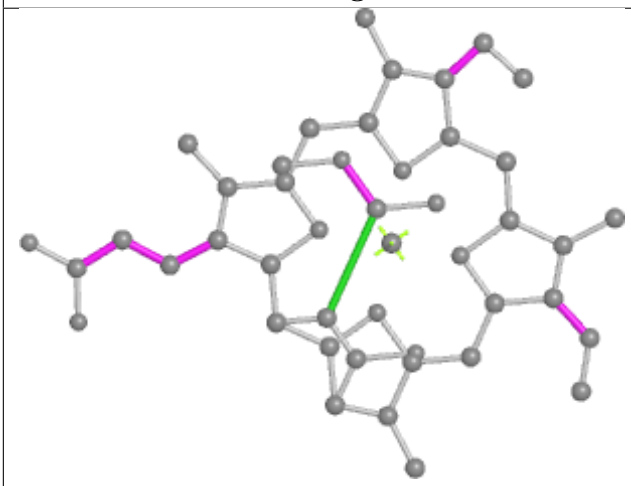
**Ligand KC2 e 309**



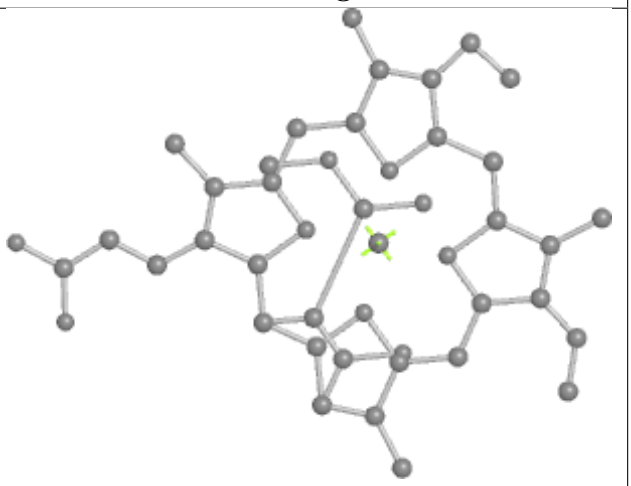
Bond lengths



Bond angles

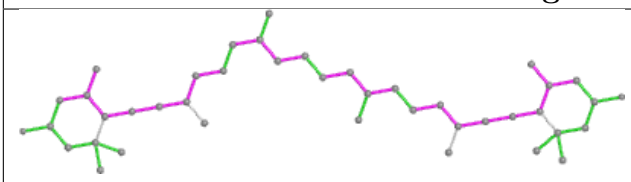


Torsions

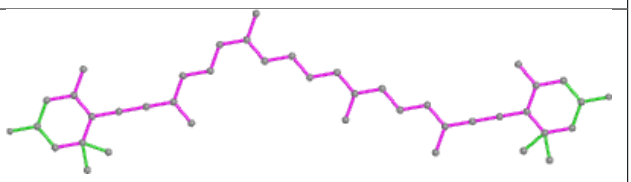


Rings

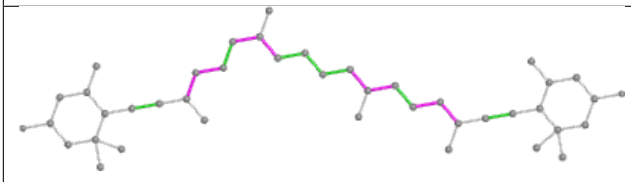
**Ligand II0 k 619**



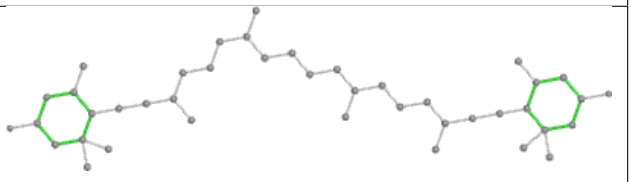
Bond lengths



Bond angles

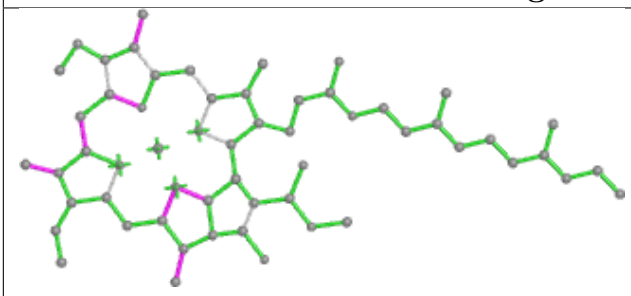


Torsions

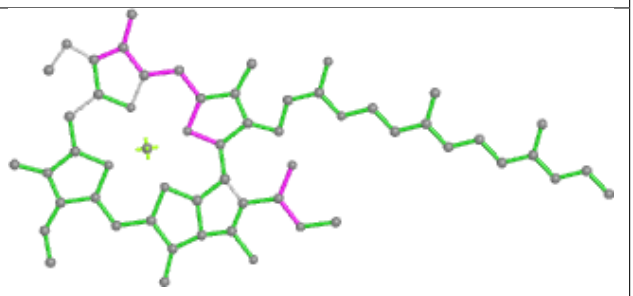


Rings

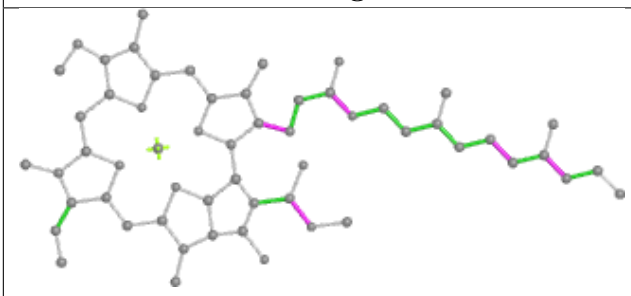
**Ligand CLA k 609**



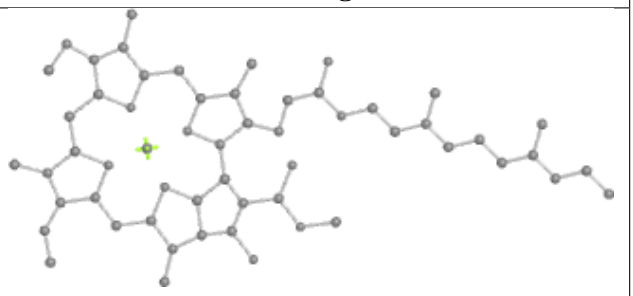
Bond lengths



Bond angles

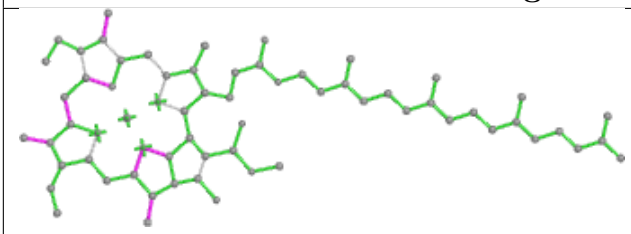


Torsions

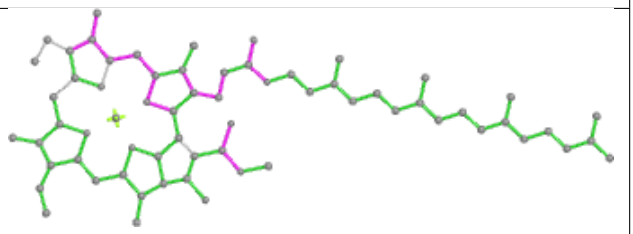


Rings

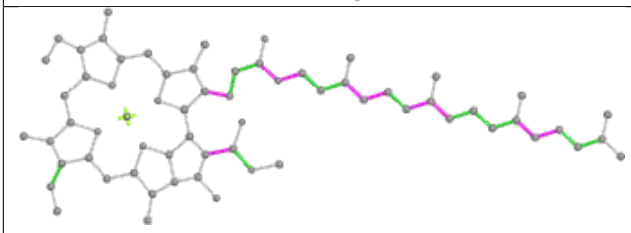
**Ligand CLA A 816**



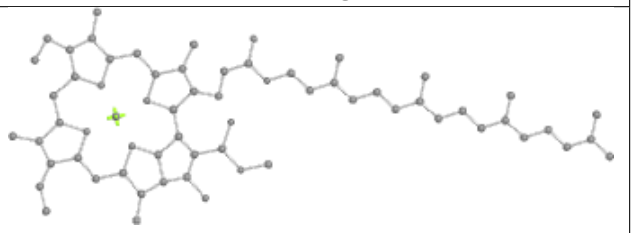
Bond lengths



Bond angles

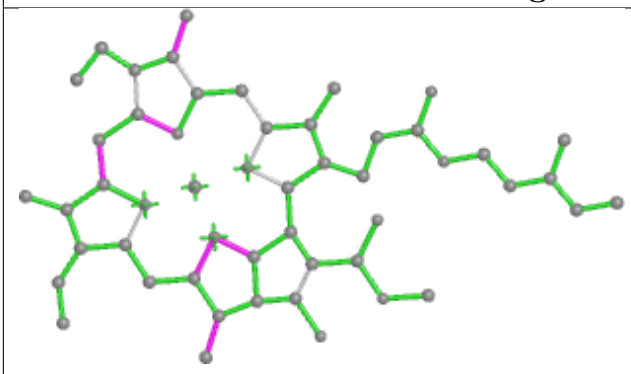


Torsions

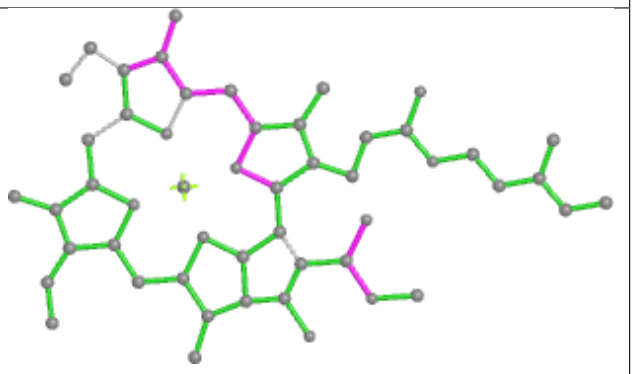


Rings

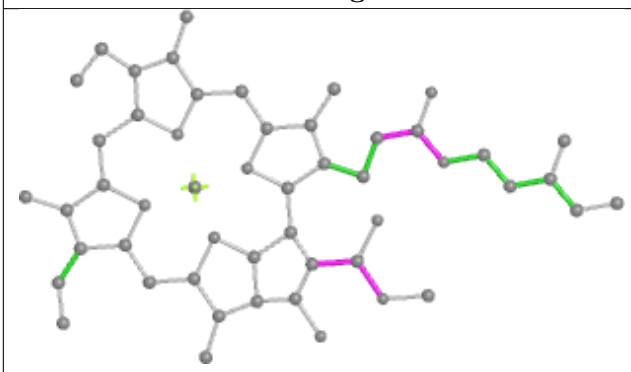
## Ligand CLA e 303



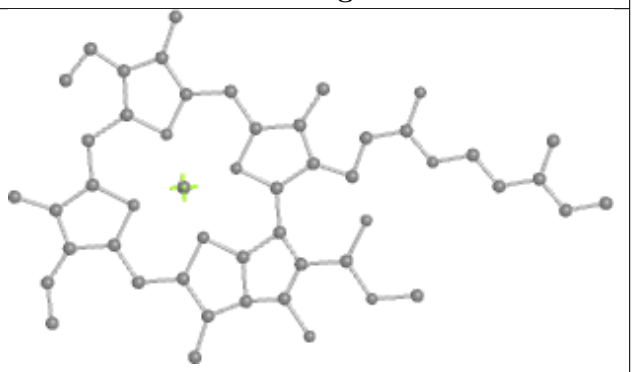
Bond lengths



Bond angles

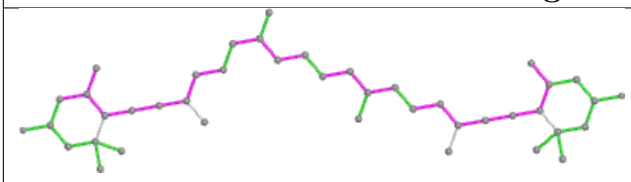


Torsions

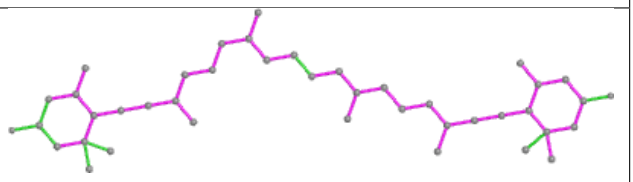


Rings

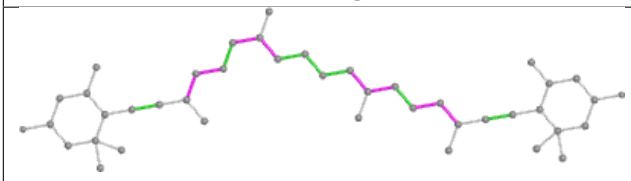
## Ligand II0 e 313



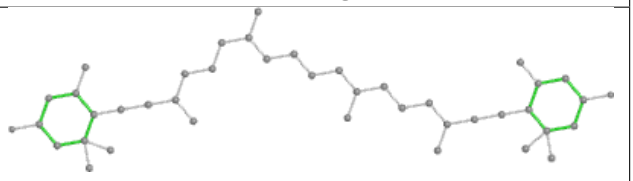
Bond lengths



Bond angles

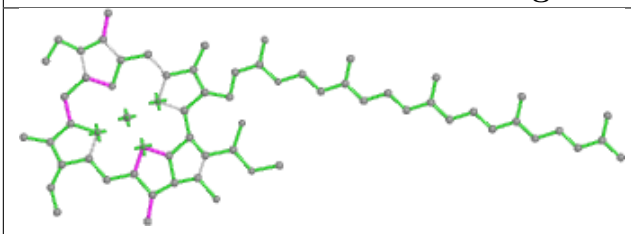


Torsions

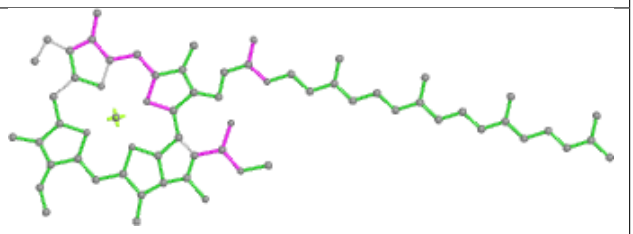


Rings

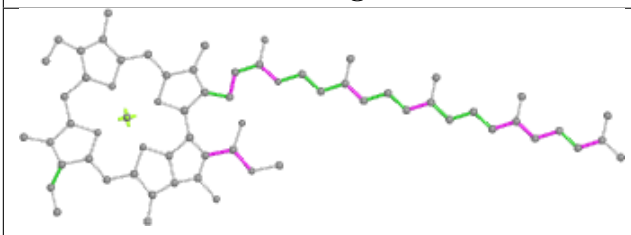
## Ligand CLA i 303



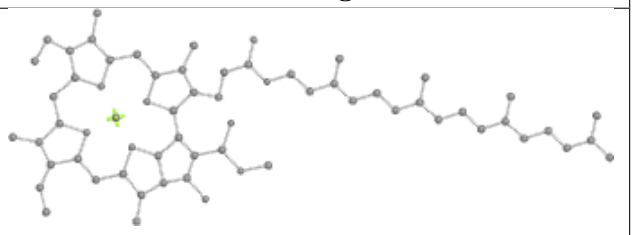
Bond lengths



Bond angles

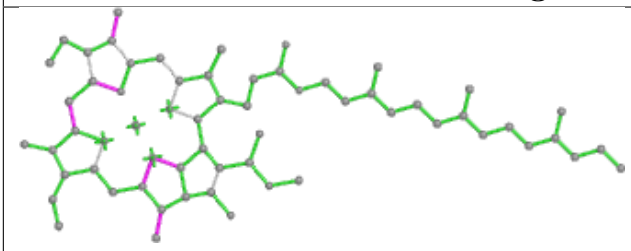


Torsions

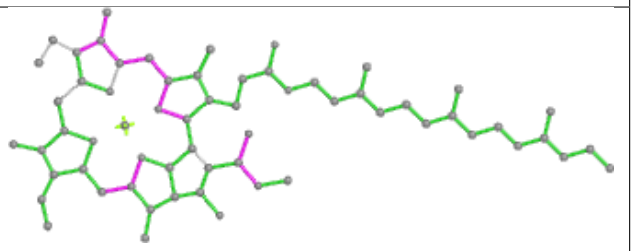


Rings

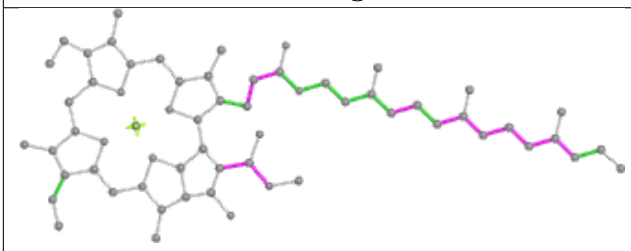
## Ligand CLA c 304



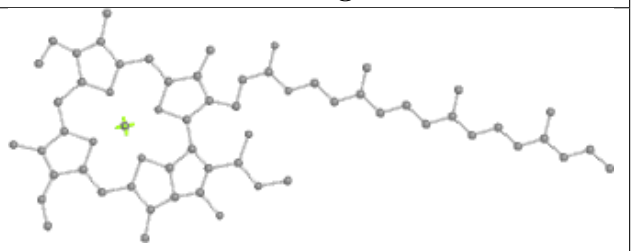
Bond lengths



Bond angles

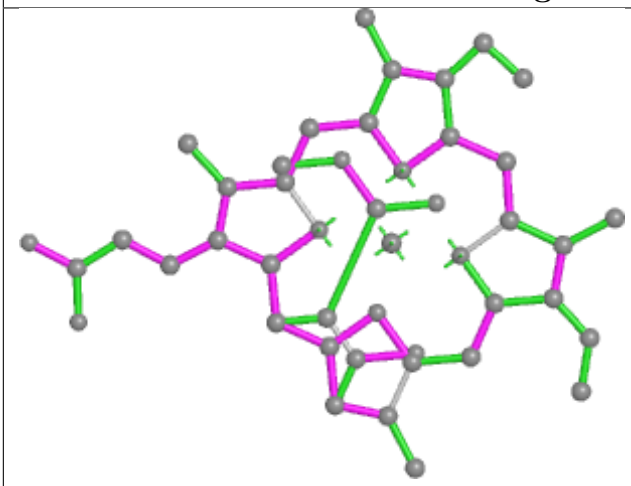


Torsions

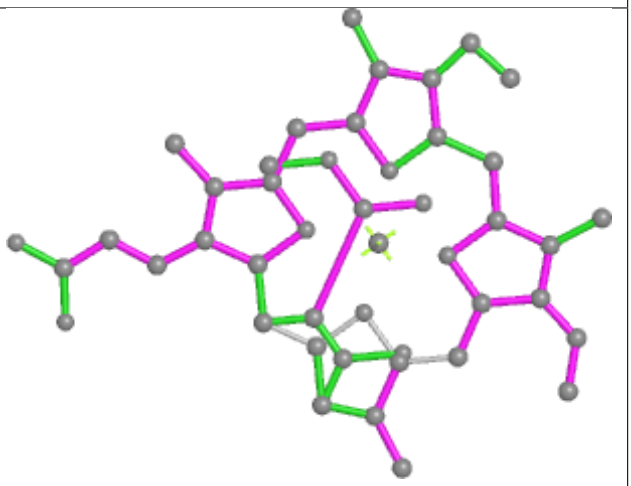


Rings

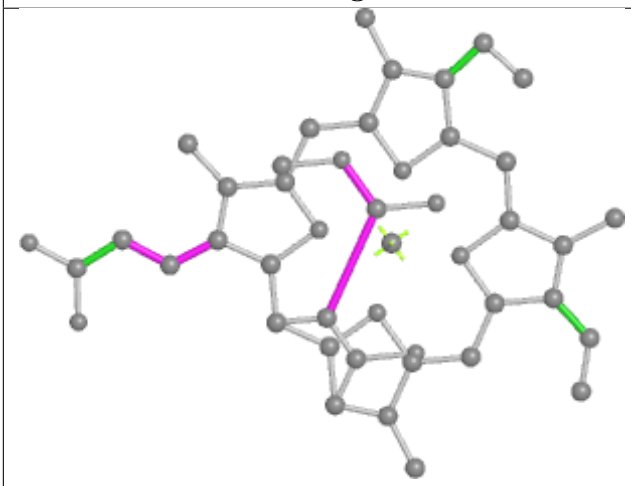
**Ligand KC2 l 311**



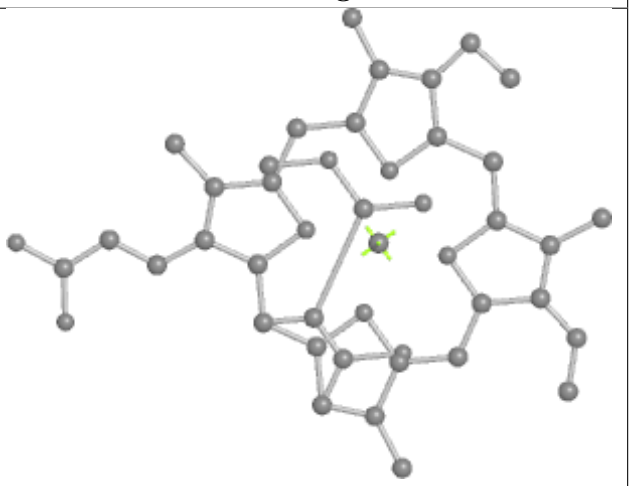
Bond lengths



Bond angles

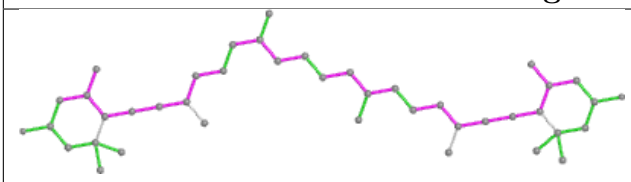


Torsions

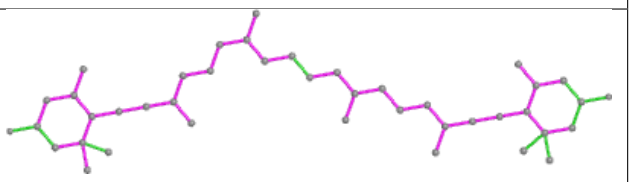


Rings

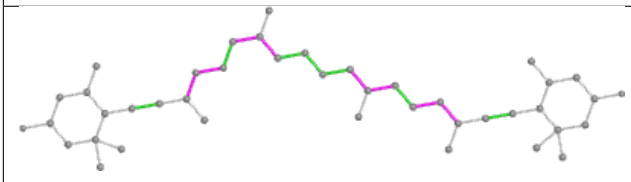
**Ligand II0 e 312**



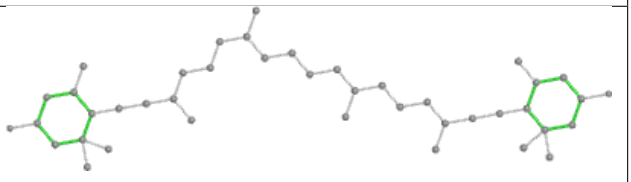
Bond lengths



Bond angles

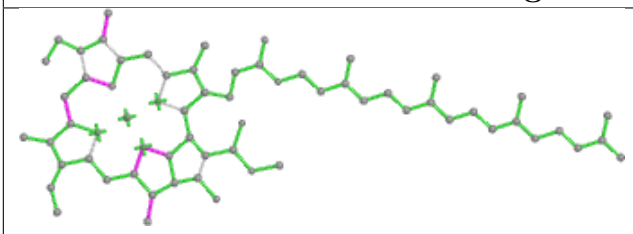


Torsions

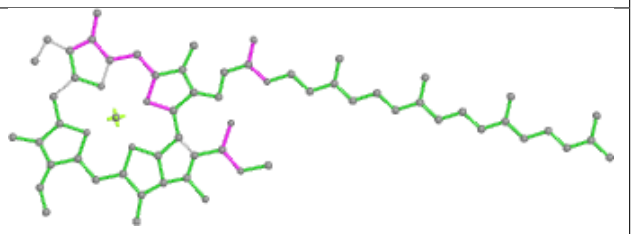


Rings

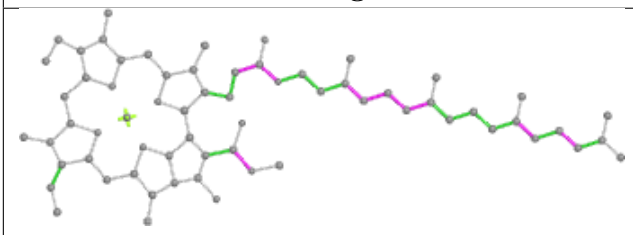
## Ligand CLA B 806



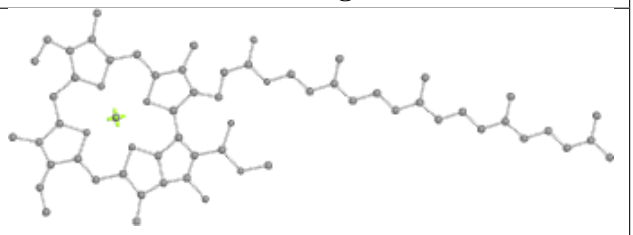
Bond lengths



Bond angles

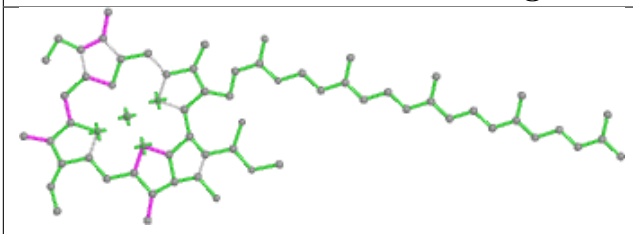


Torsions

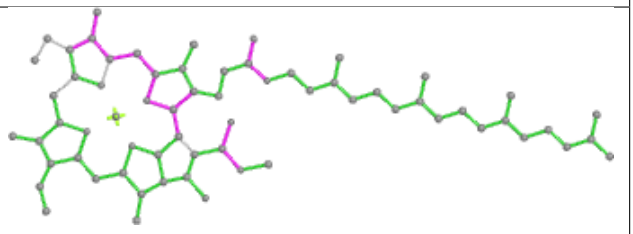


Rings

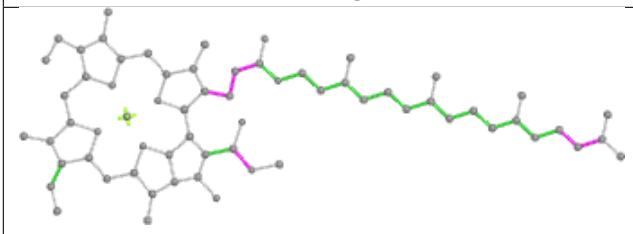
## Ligand CLA A 808



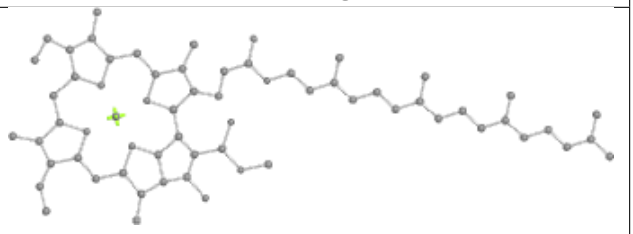
Bond lengths



Bond angles

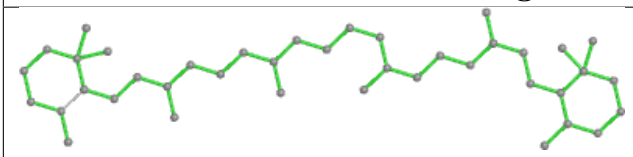


Torsions

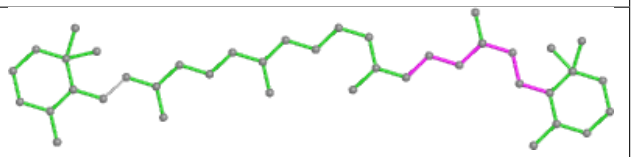


Rings

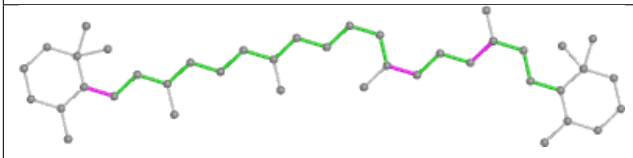
## Ligand WVN B 845



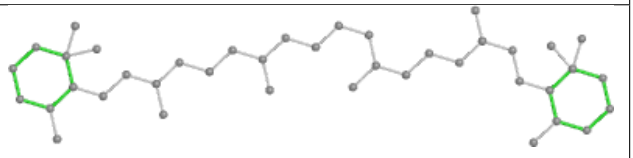
Bond lengths



Bond angles

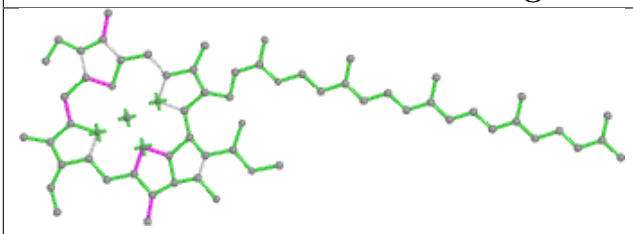


Torsions

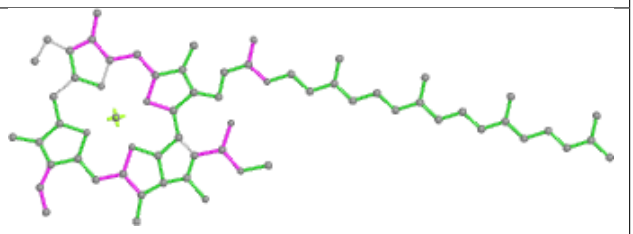


Rings

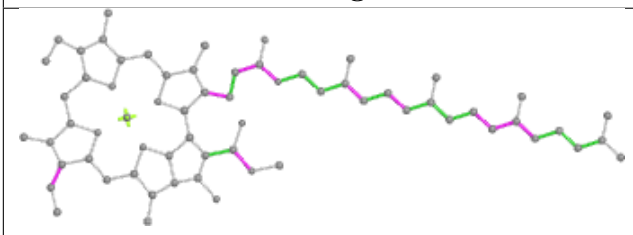
## Ligand CLA B 816



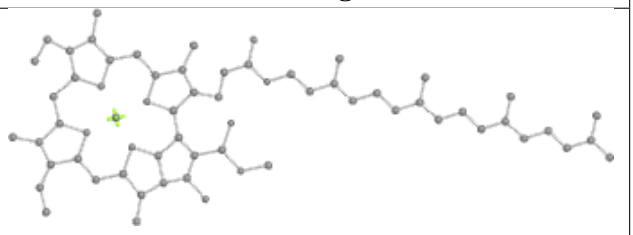
Bond lengths



Bond angles

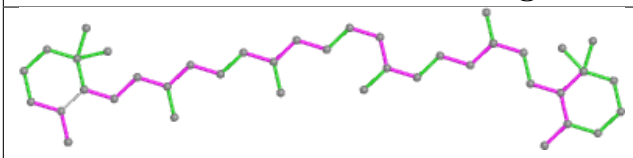


Torsions

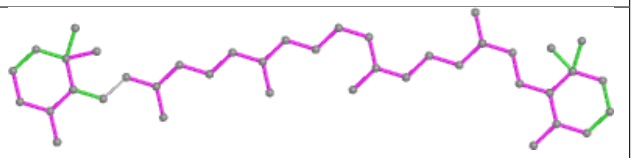


Rings

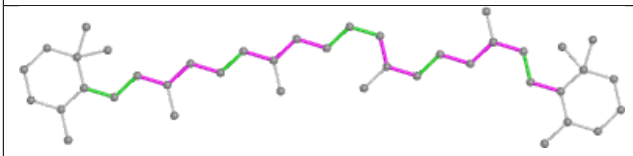
## Ligand WVN h 308



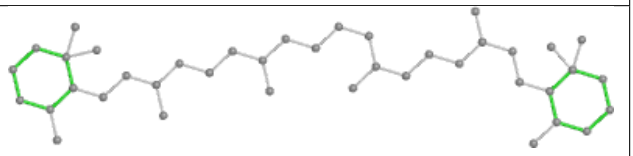
Bond lengths



Bond angles

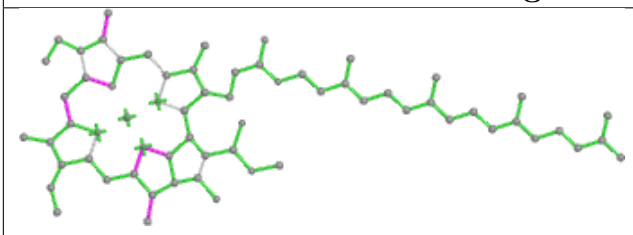


Torsions

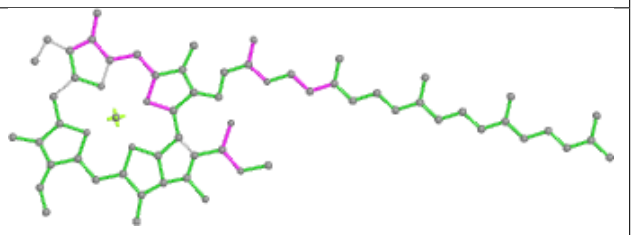


Rings

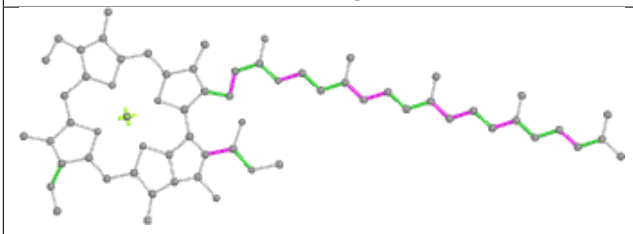
## Ligand CLA A 851



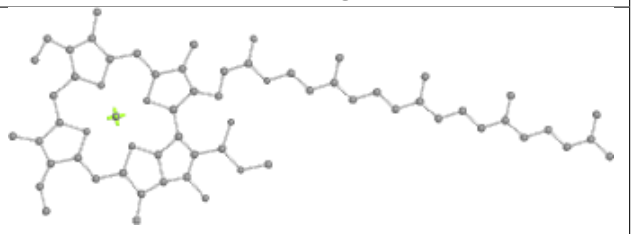
Bond lengths



Bond angles

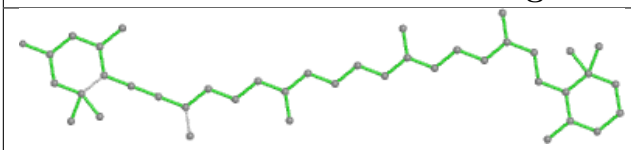


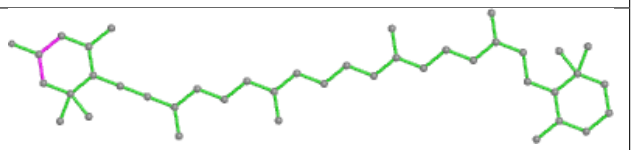
Torsions

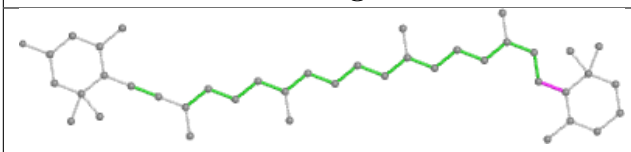


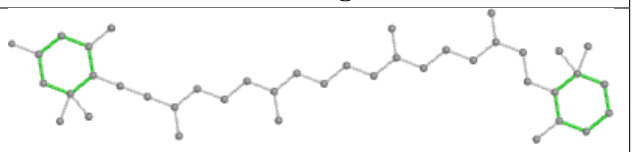
Rings

## Ligand IHT m 617

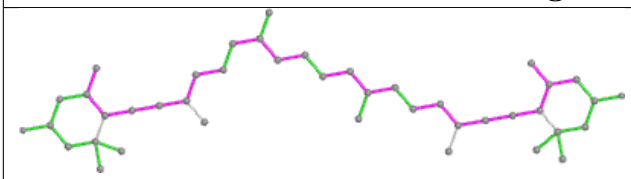

Bond lengths

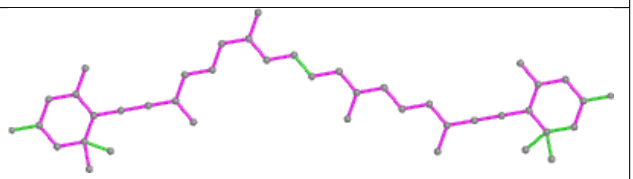

Bond angles

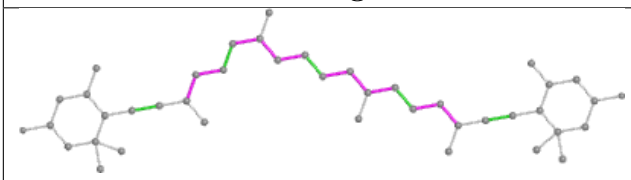

Torsions

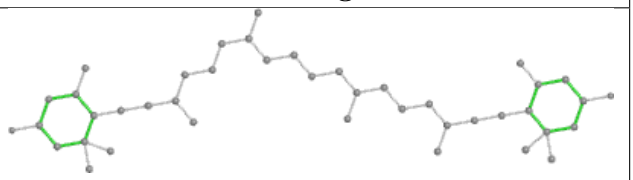

Rings

## Ligand II0 i 319

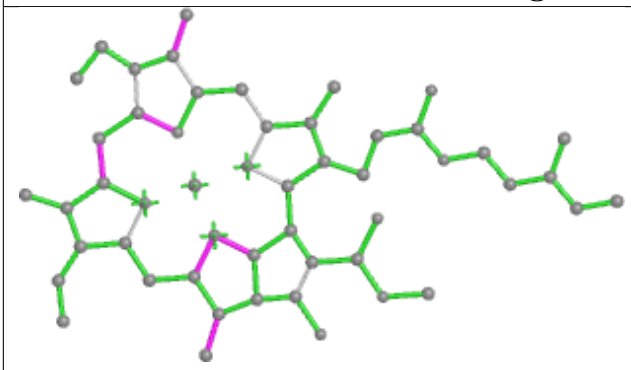

Bond lengths

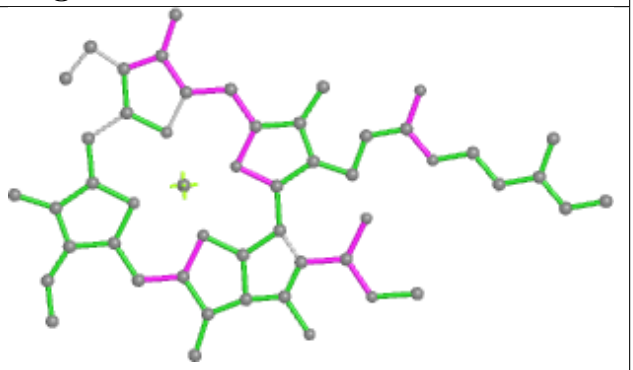

Bond angles

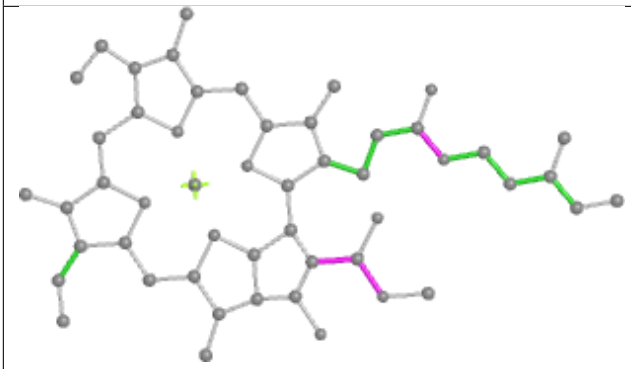

Torsions

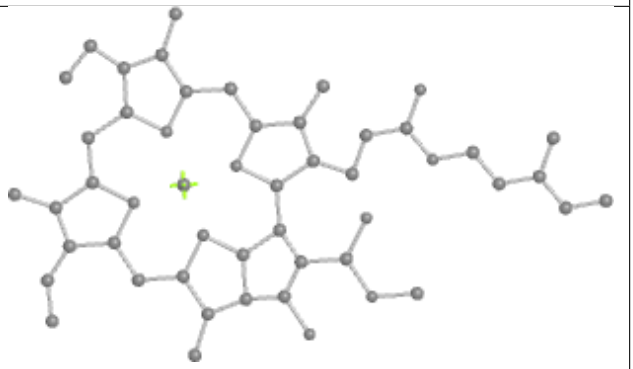

Rings

## Ligand CLA g 308

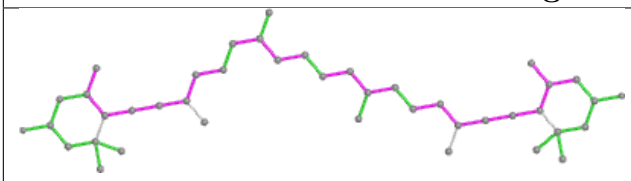

Bond lengths

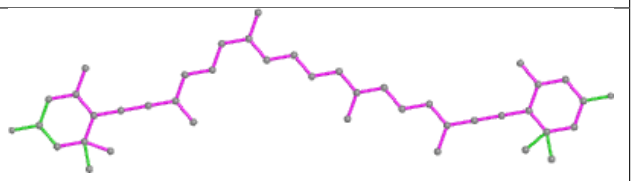

Bond angles

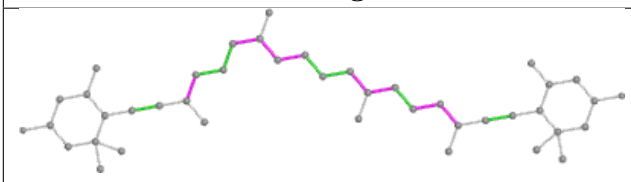

Torsions

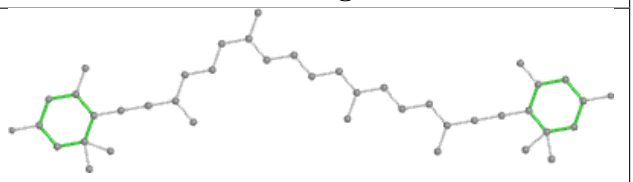

Rings

## Ligand II0 a 315

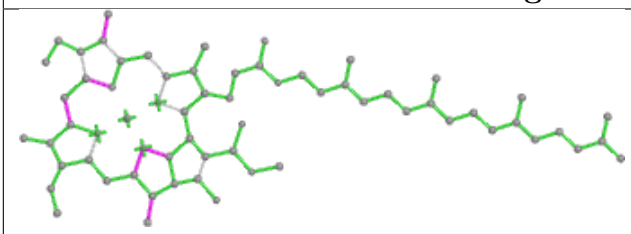

Bond lengths

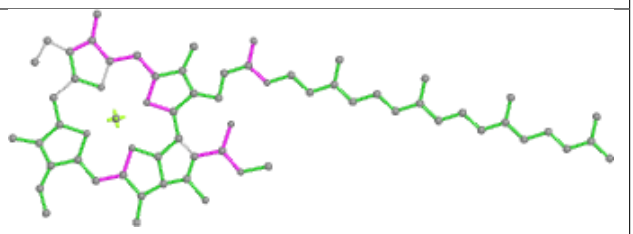

Bond angles

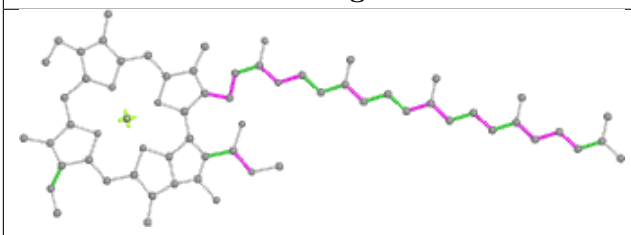

Torsions

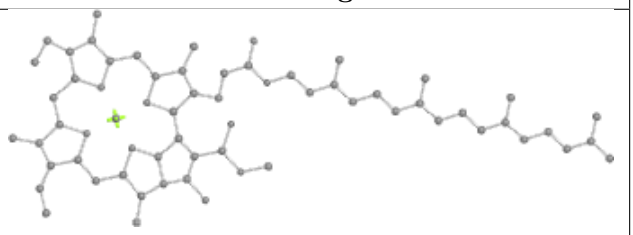

Rings

## Ligand CLA B 825

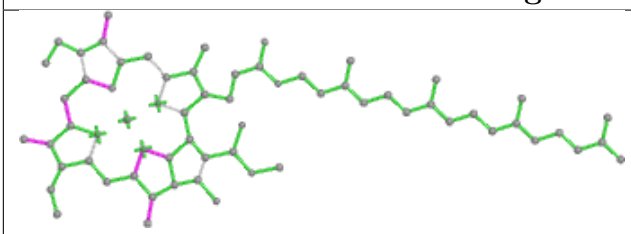

Bond lengths

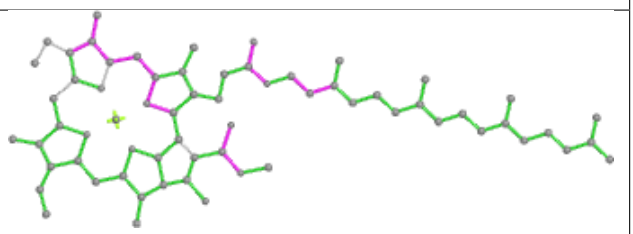

Bond angles

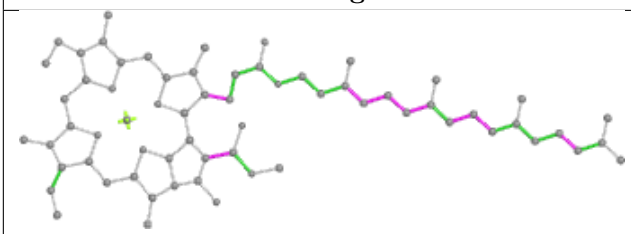

Torsions

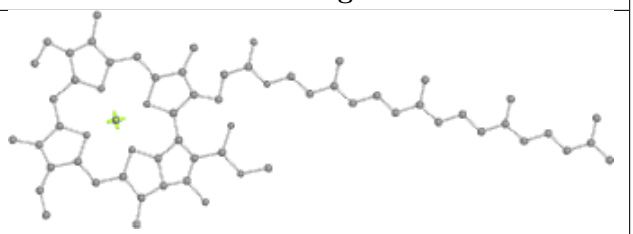

Rings

## Ligand CLA B 812

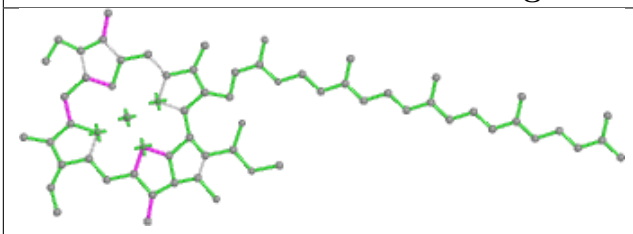

Bond lengths


Bond angles

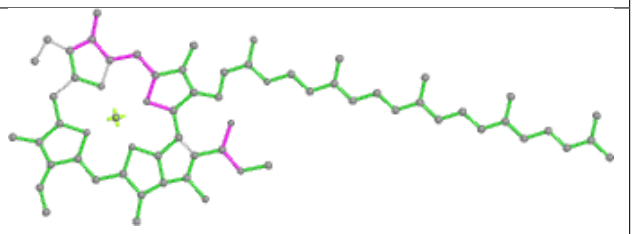

Torsions


Rings

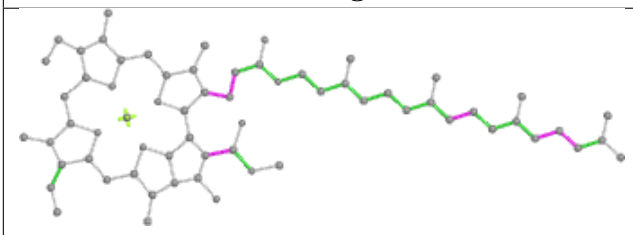
## Ligand CLA A 807



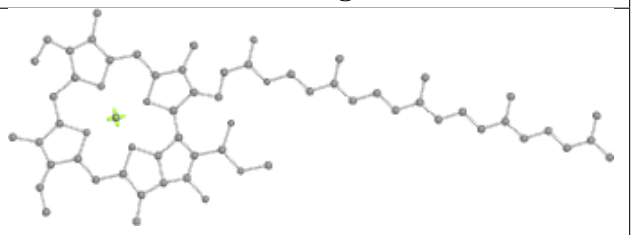
Bond lengths



Bond angles

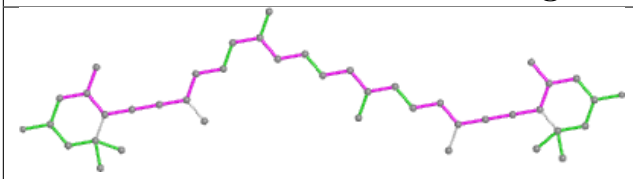


Torsions

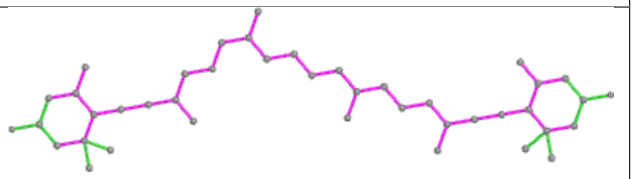


Rings

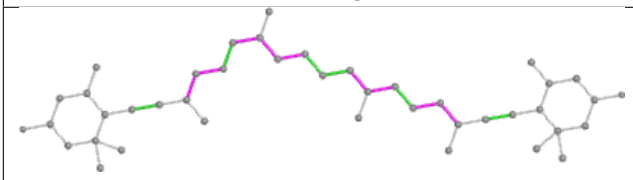
## Ligand II0 d 301



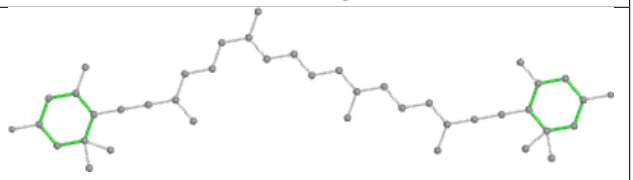
Bond lengths



Bond angles

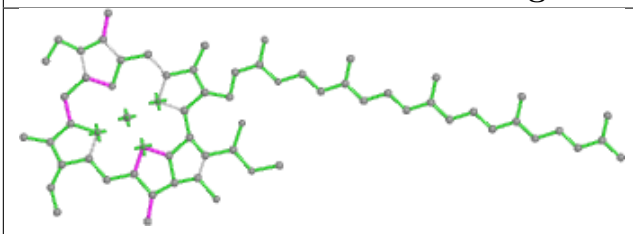


Torsions

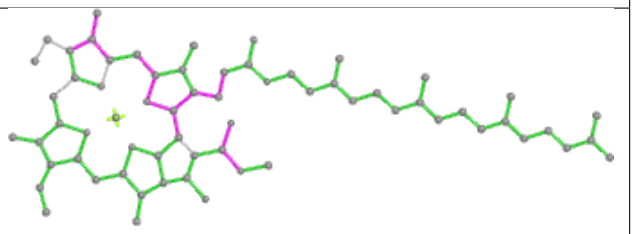


Rings

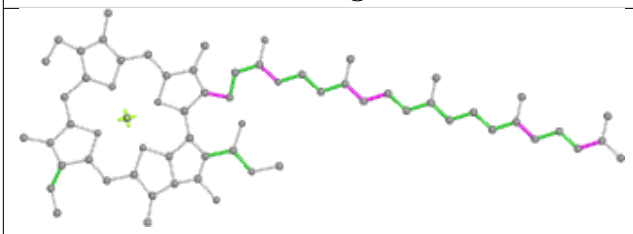
## Ligand CLA a 302



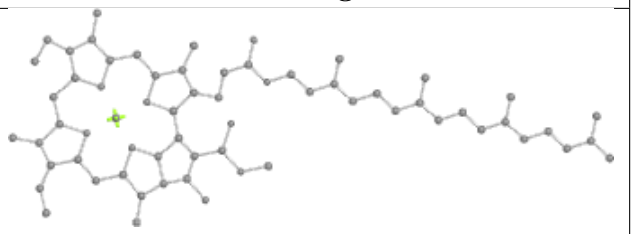
Bond lengths



Bond angles

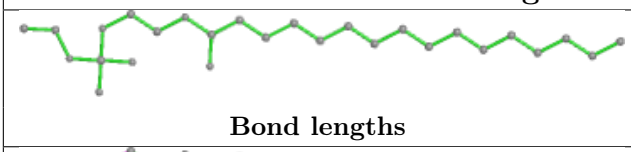


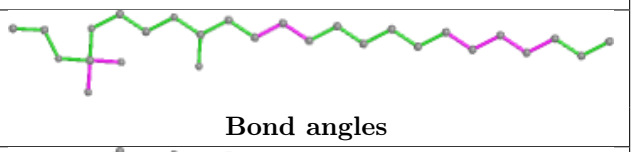
Torsions

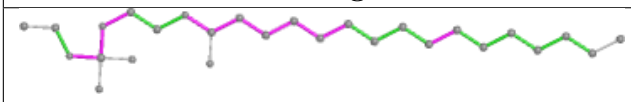


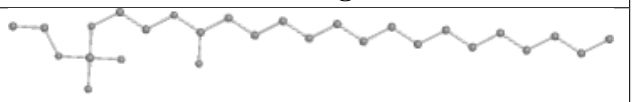
Rings

## Ligand LHG A 848

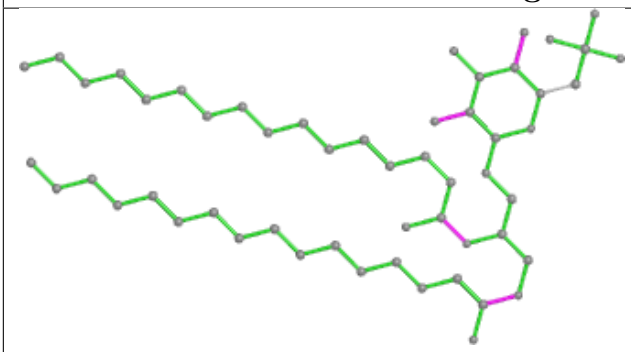

Bond lengths

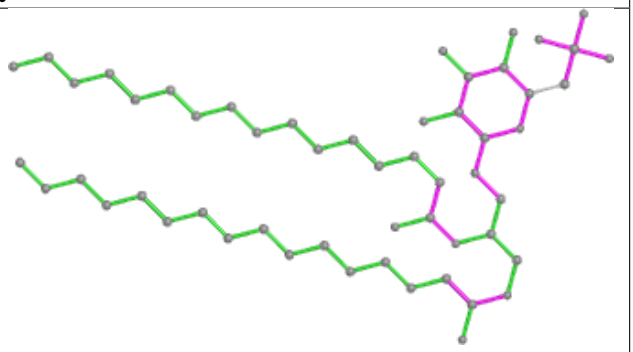

Bond angles

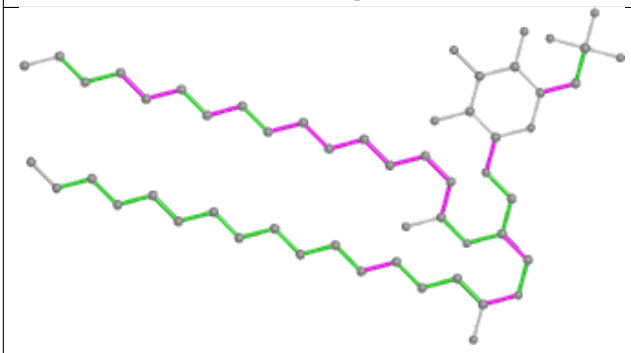

Torsions

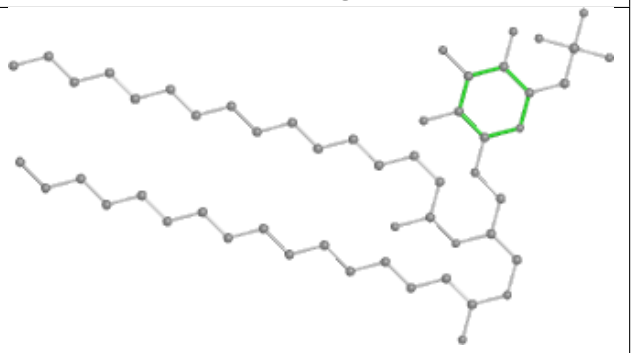

Rings

## Ligand SQD A 853

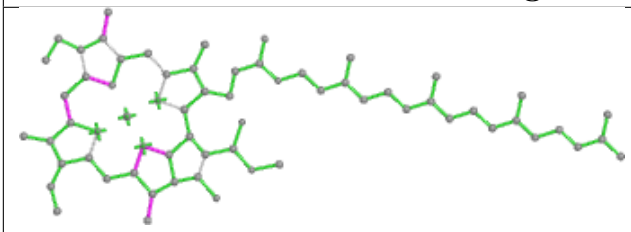

Bond lengths

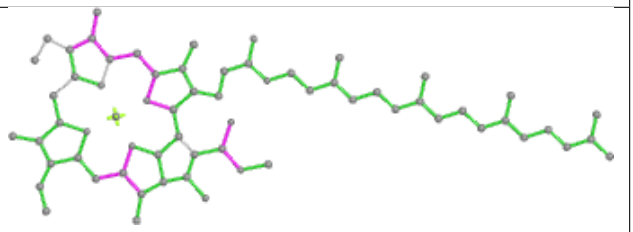

Bond angles

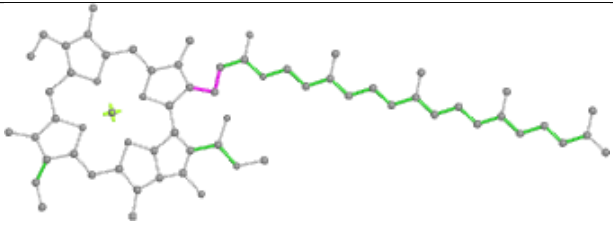

Torsions

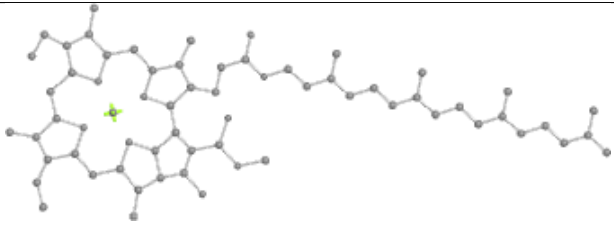

Rings

## Ligand CLA A 850

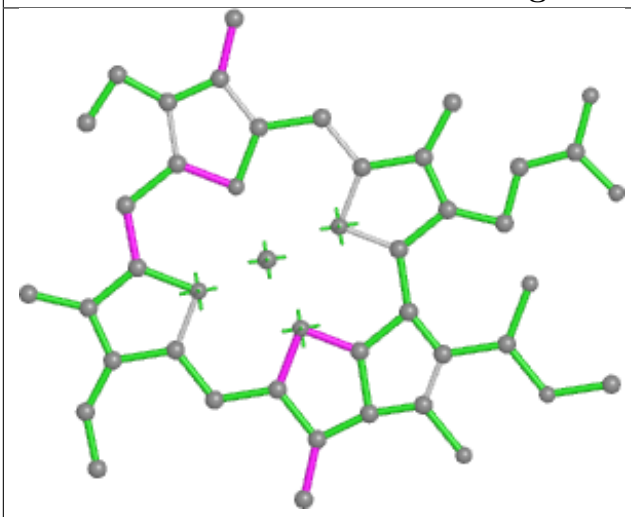

Bond lengths


Bond angles

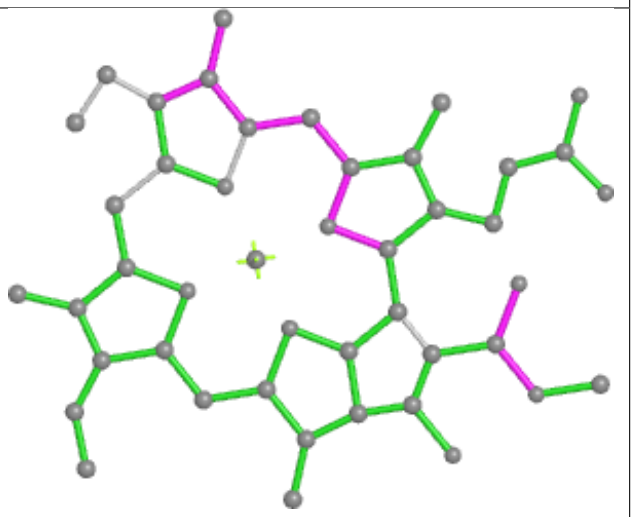

Torsions


Rings

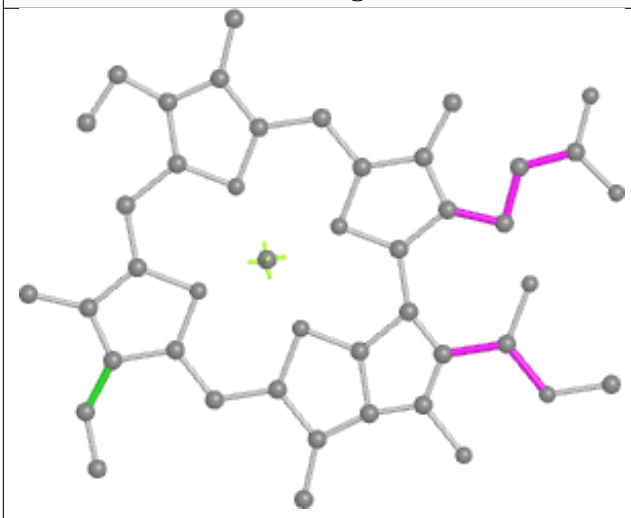
## Ligand CLA e 301



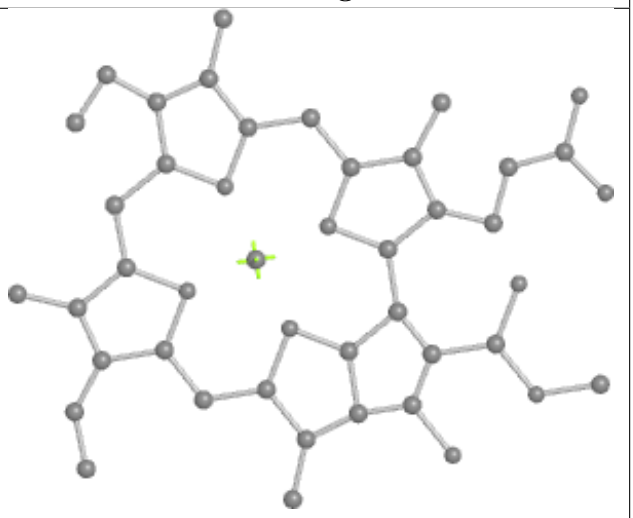
Bond lengths



Bond angles

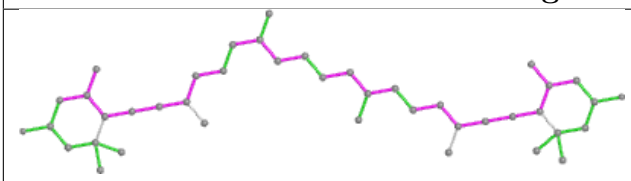


Torsions

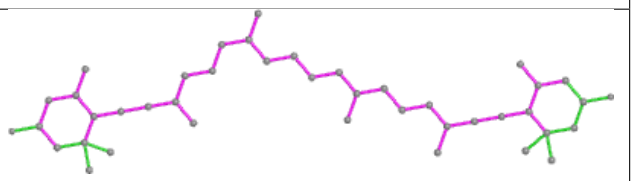


Rings

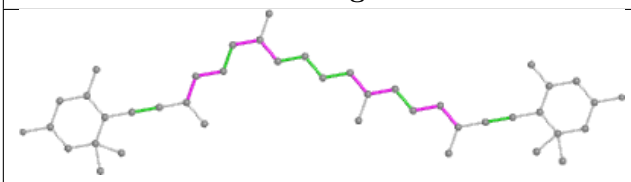
## Ligand II0 n 615



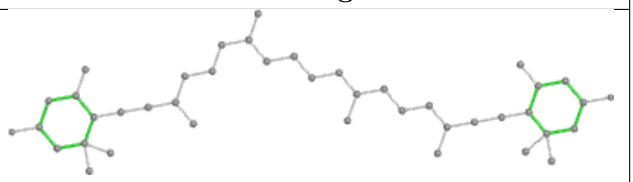
Bond lengths



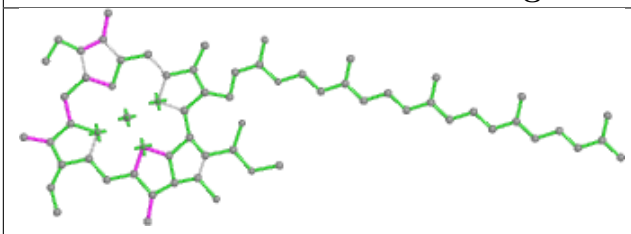
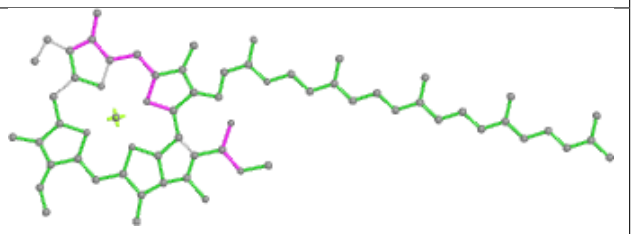
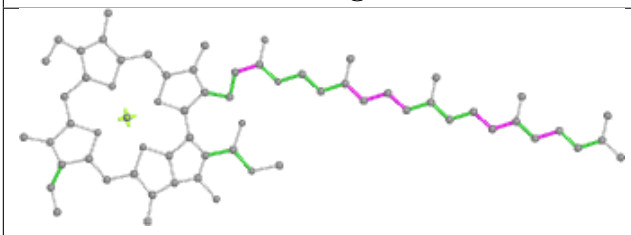
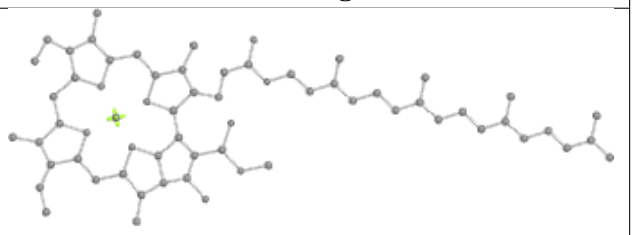
Bond angles

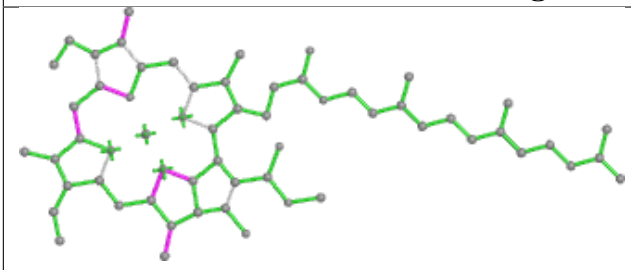
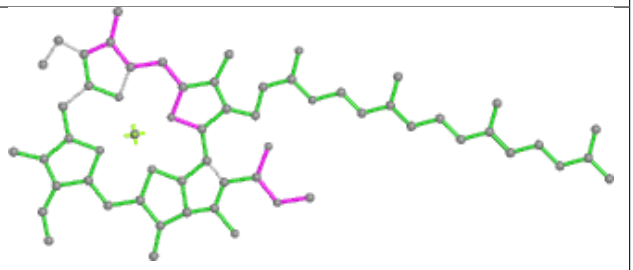
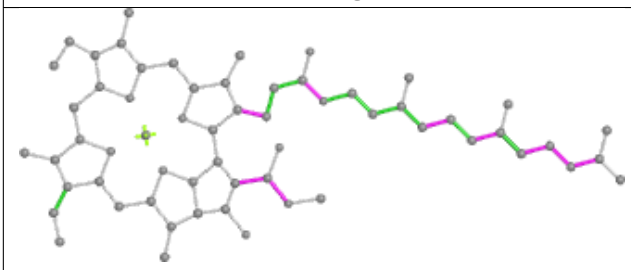
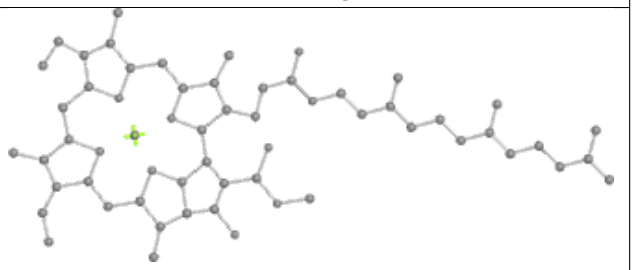


Torsions

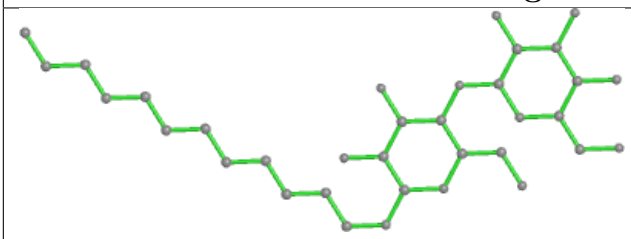


Rings

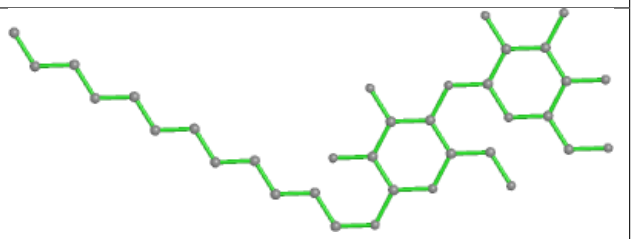
| Ligand CLA O 206 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA c 302 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

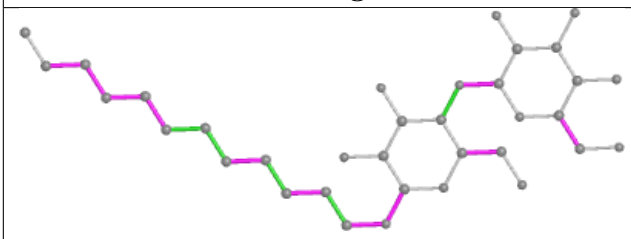
## Ligand LMU a 319



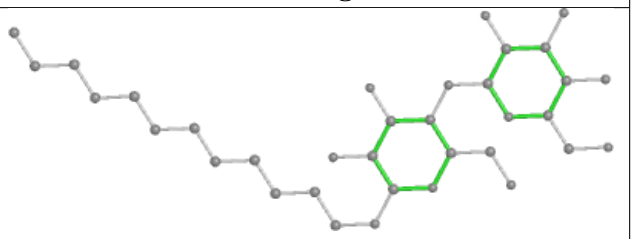
Bond lengths



Bond angles

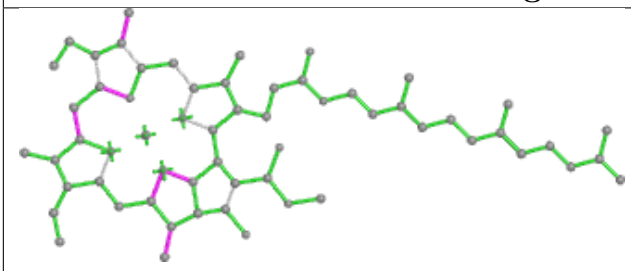


Torsions

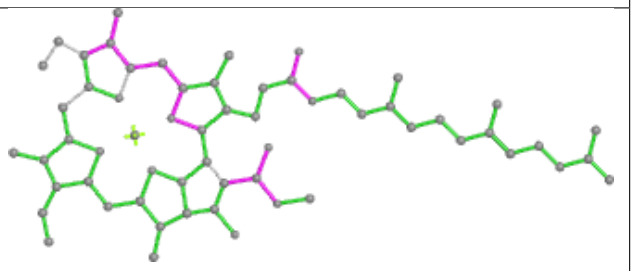


Rings

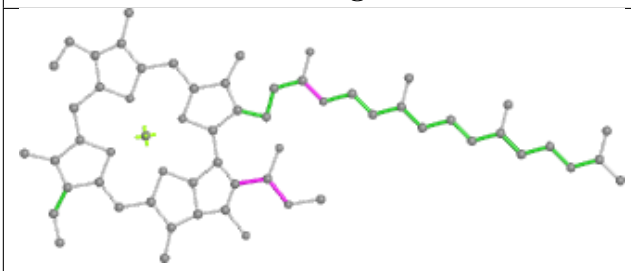
## Ligand CLA A 806



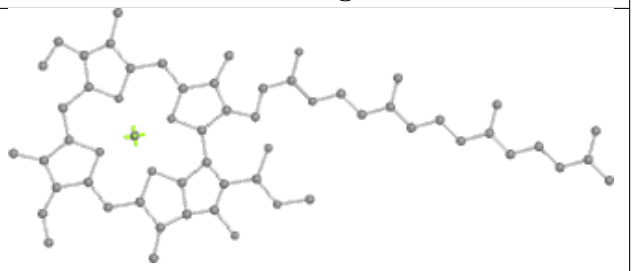
Bond lengths



Bond angles

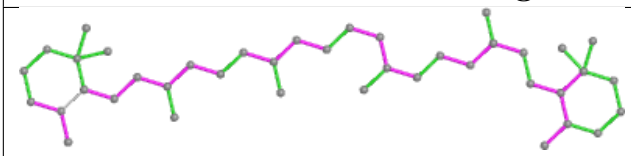


Torsions

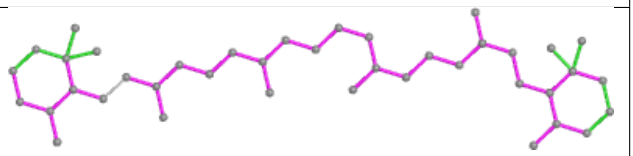


Rings

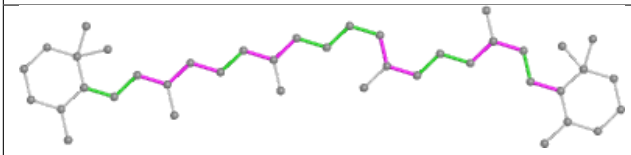
## Ligand WVN A 845



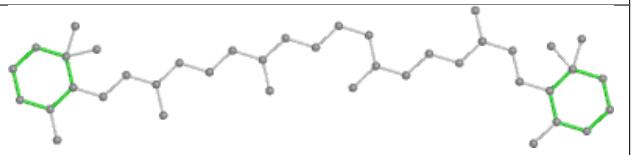
Bond lengths



Bond angles

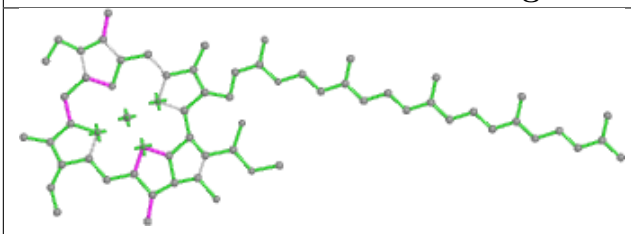


Torsions

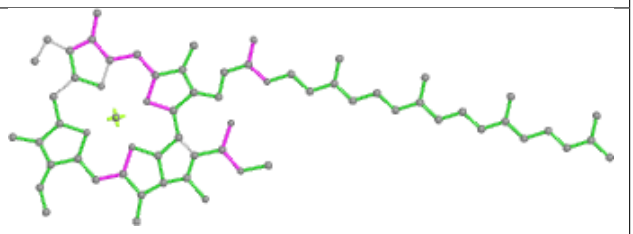


Rings

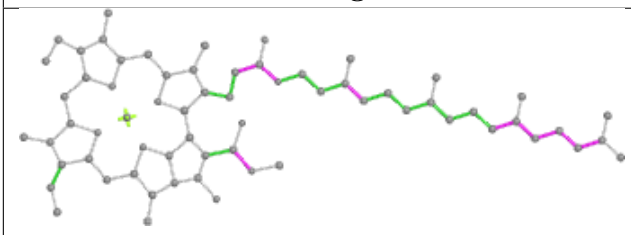
## Ligand CLA m 606



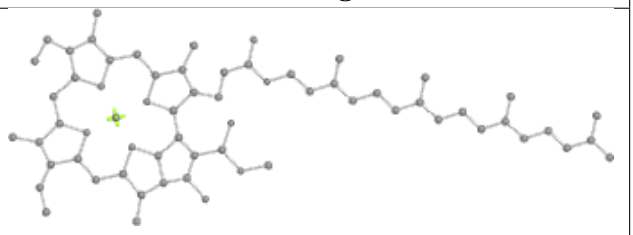
Bond lengths



Bond angles

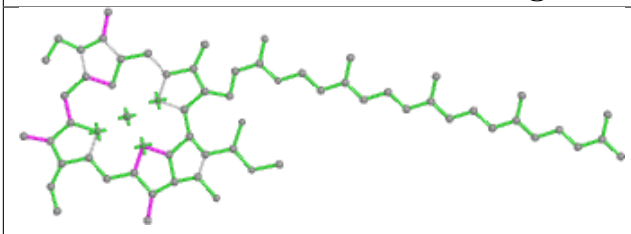


Torsions

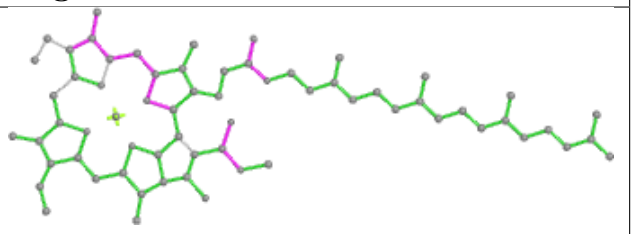


Rings

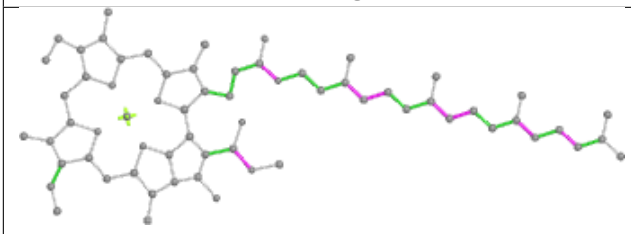
## Ligand CLA g 309



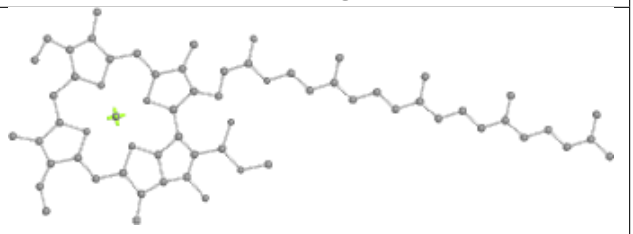
Bond lengths



Bond angles

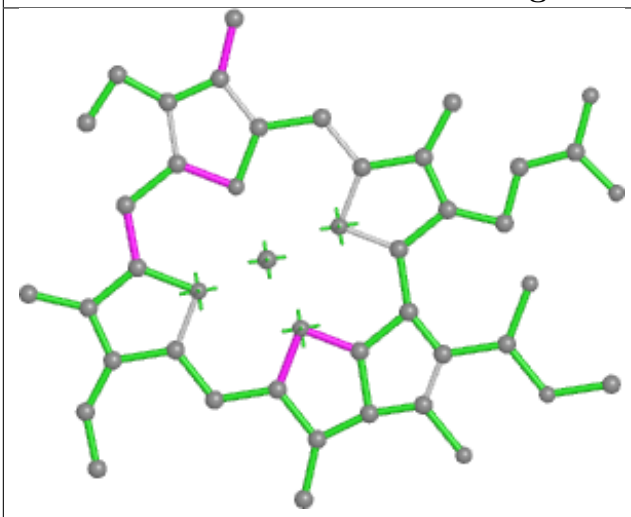


Torsions

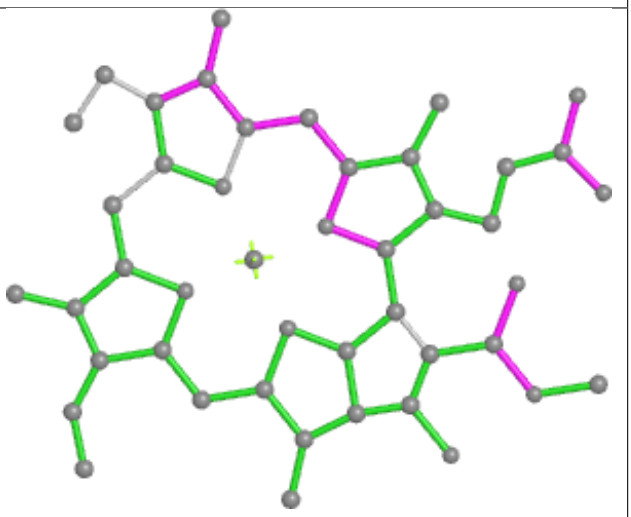


Rings

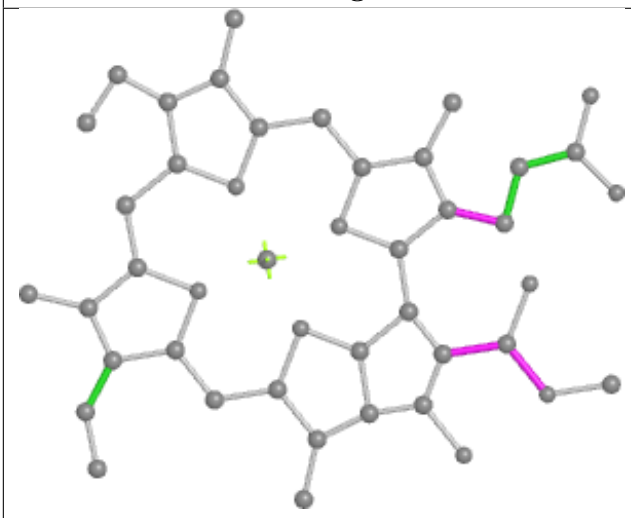
## Ligand CLA c 309



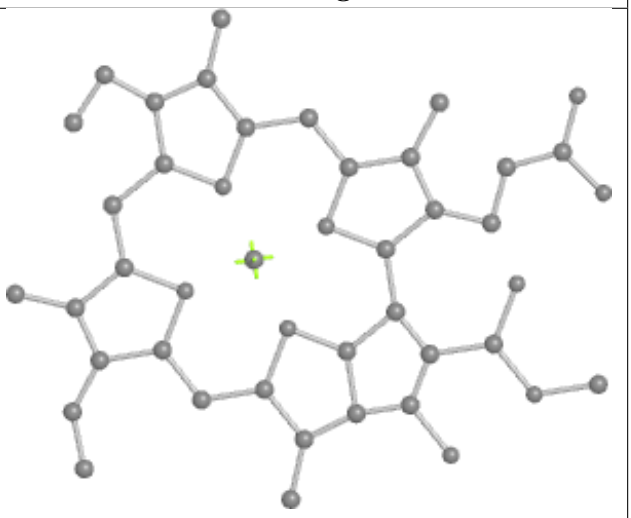
Bond lengths



Bond angles

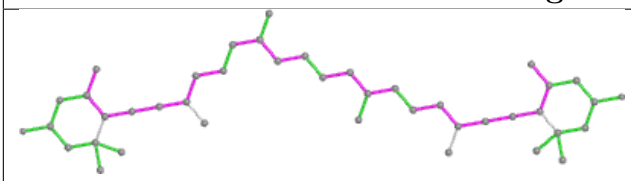


Torsions

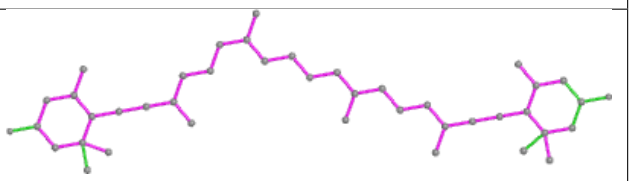


Rings

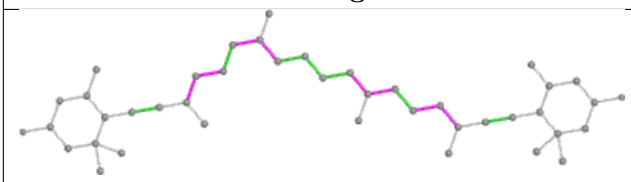
## Ligand II0 f 618



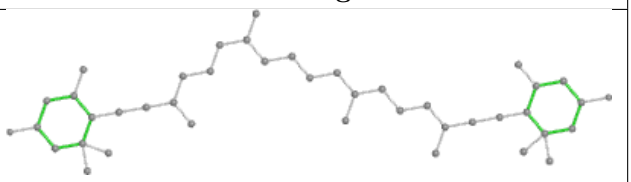
Bond lengths



Bond angles

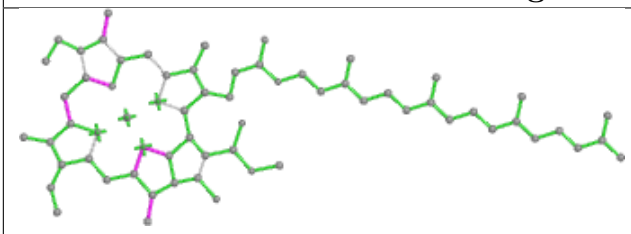


Torsions

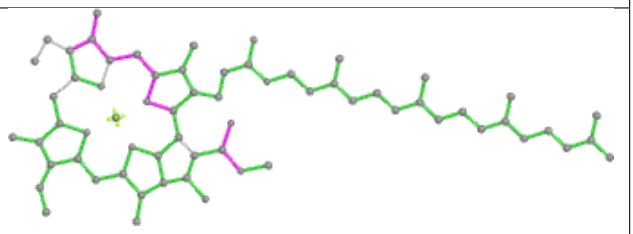


Rings

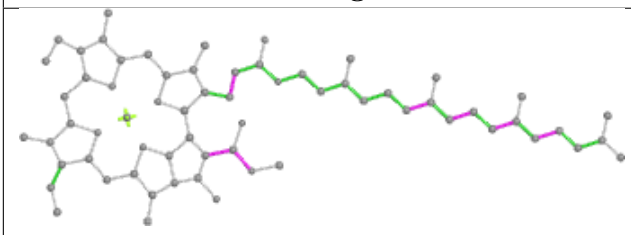
## Ligand CLA b 305



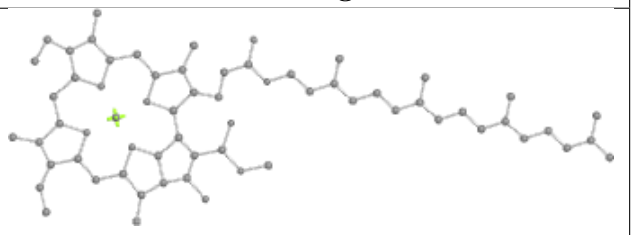
Bond lengths



Bond angles

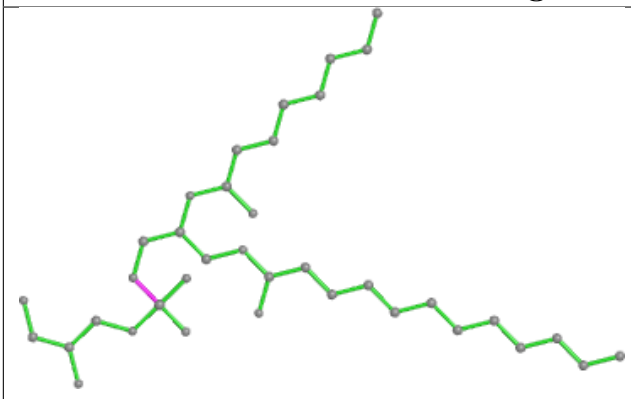


Torsions

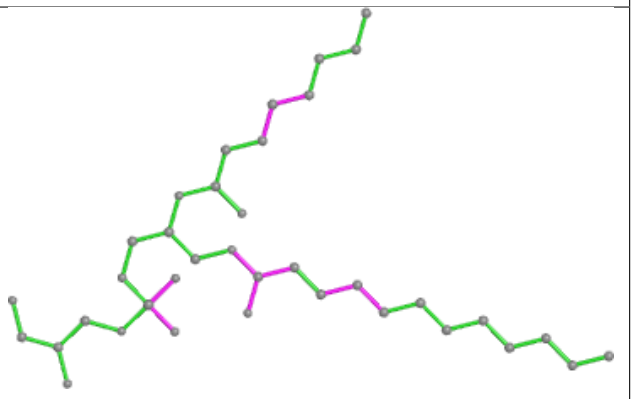


Rings

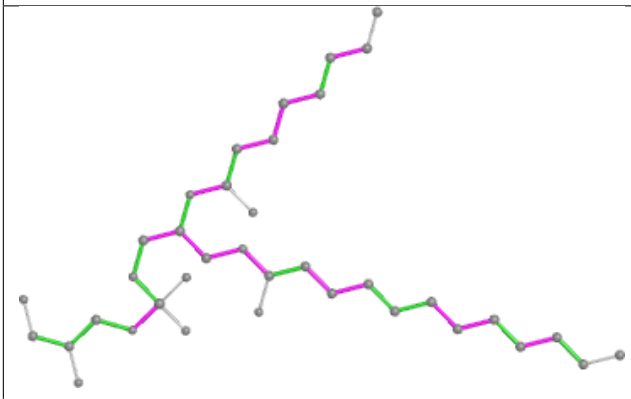
## Ligand LHG c 316



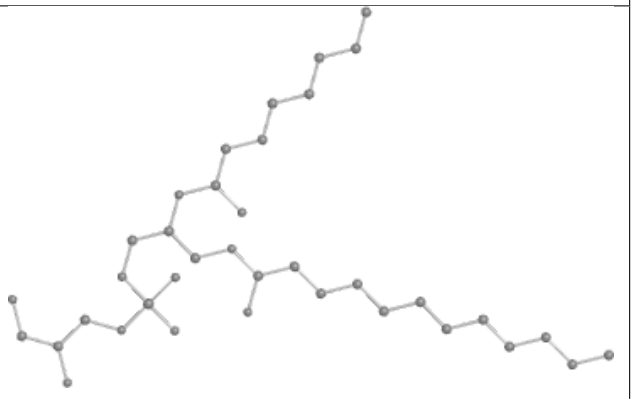
Bond lengths



Bond angles

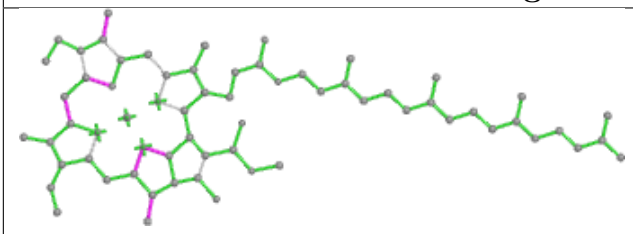


Torsions

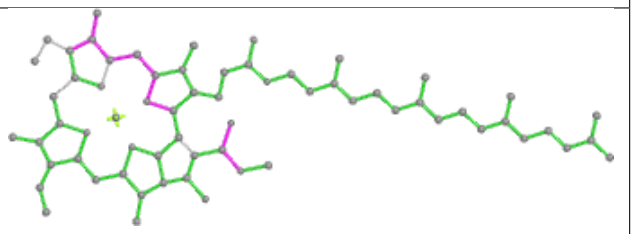


Rings

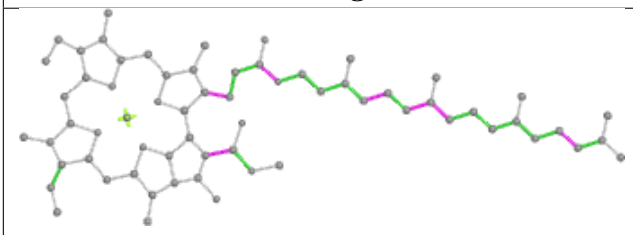
## Ligand CLA A 805



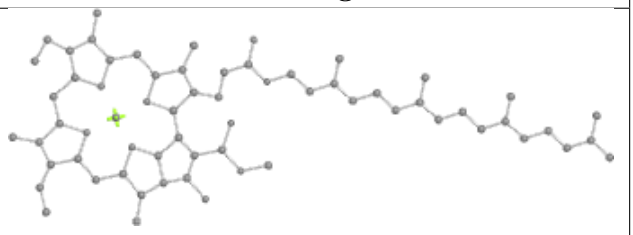
Bond lengths



Bond angles

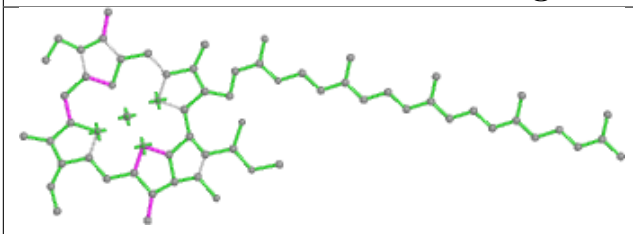


Torsions

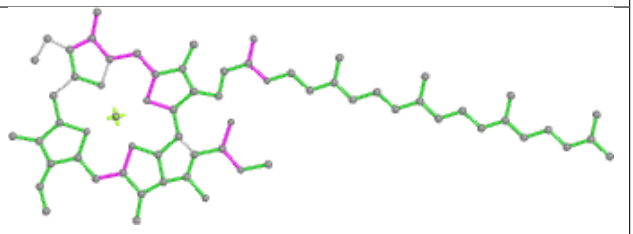


Rings

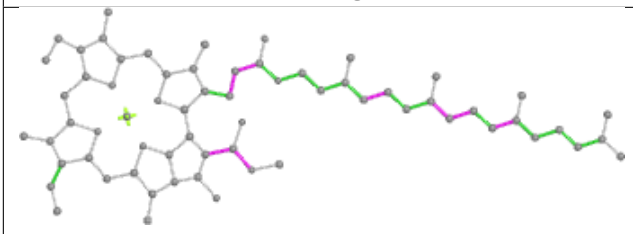
## Ligand CLA i 305



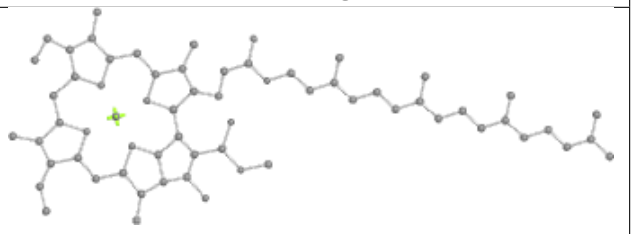
Bond lengths



Bond angles

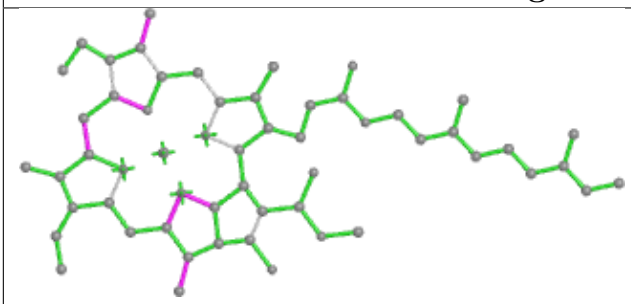


Torsions

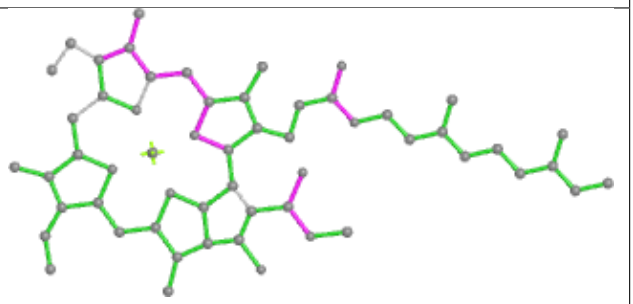


Rings

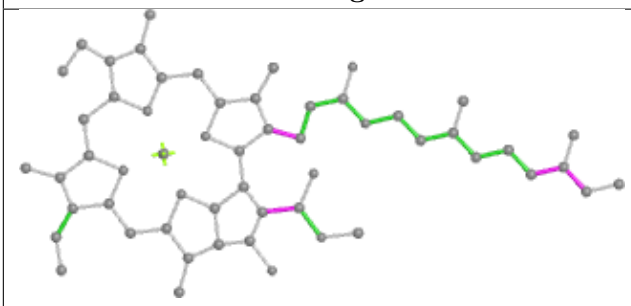
## Ligand CLA a 303



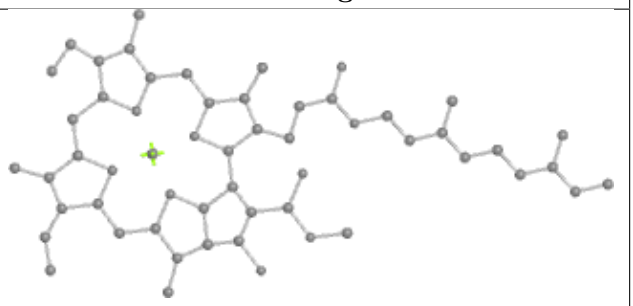
Bond lengths



Bond angles

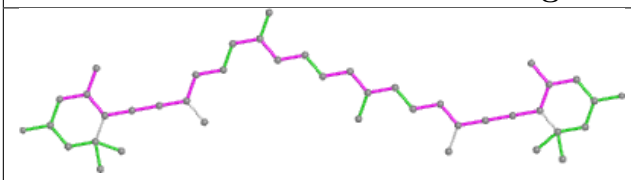


Torsions

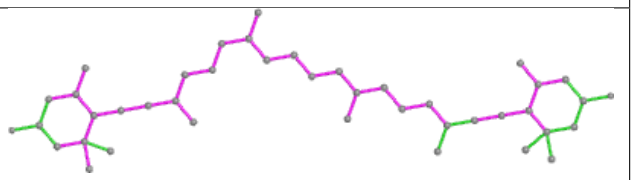


Rings

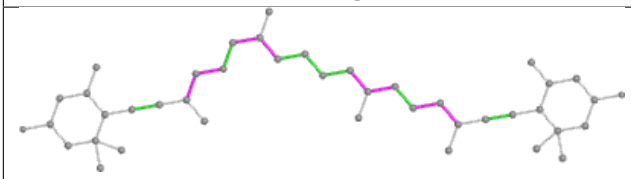
## Ligand II0 h 311



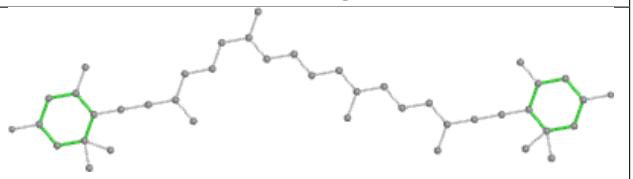
Bond lengths



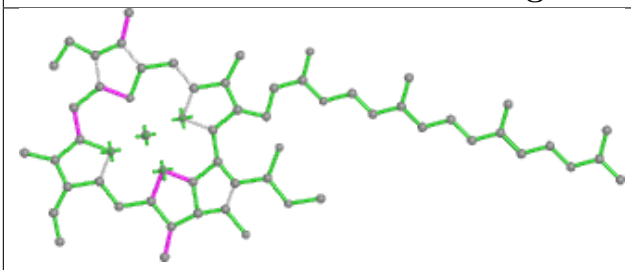
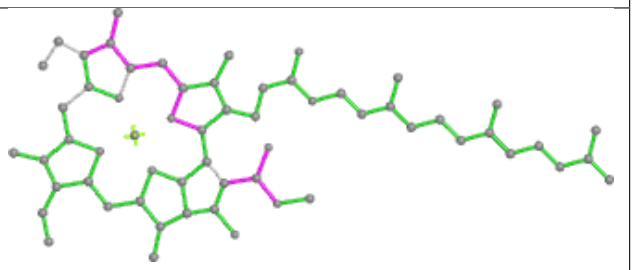
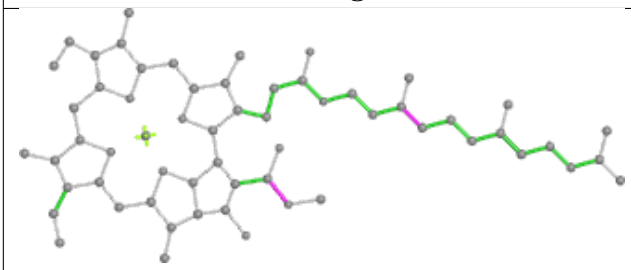
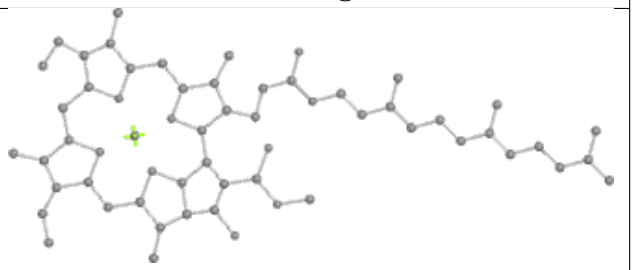
Bond angles

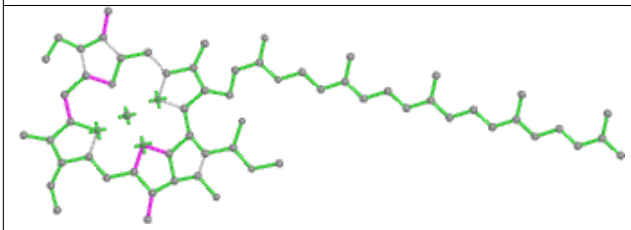
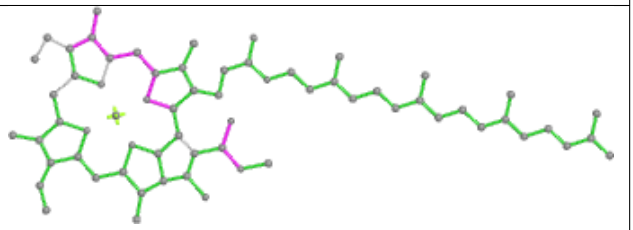
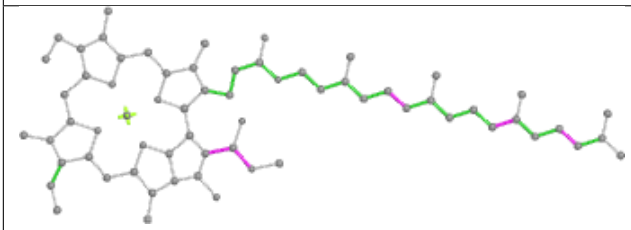
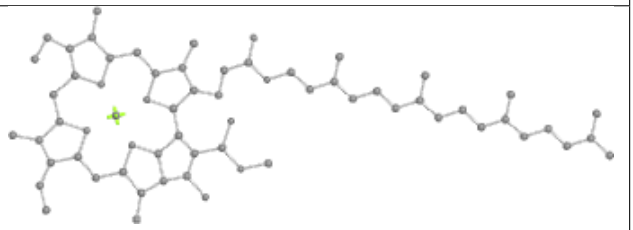


Torsions

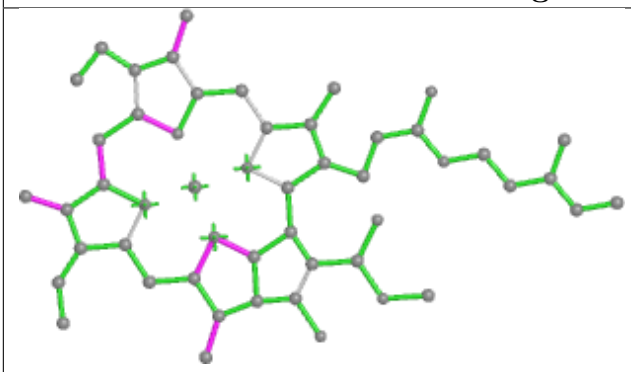


Rings

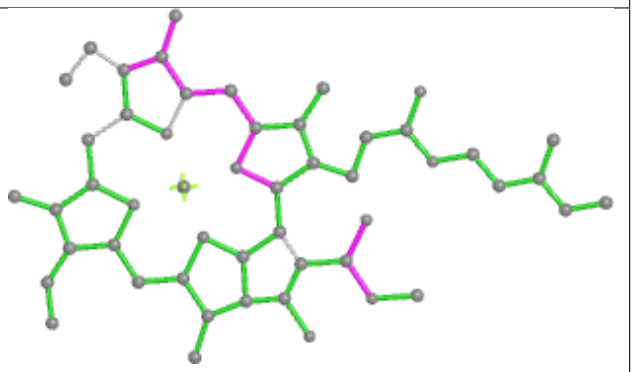
| Ligand CLA L 204 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA f 608 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

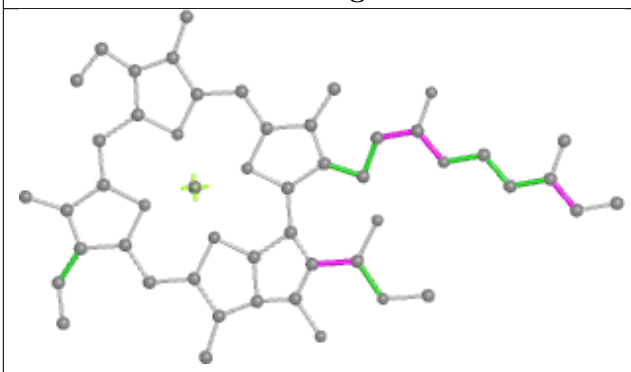
**Ligand CLA f 603**



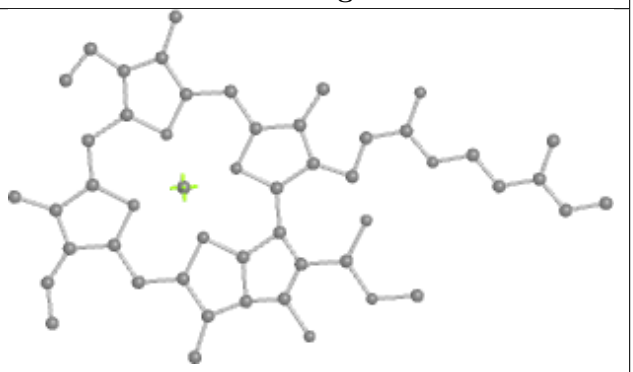
**Bond lengths**



**Bond angles**

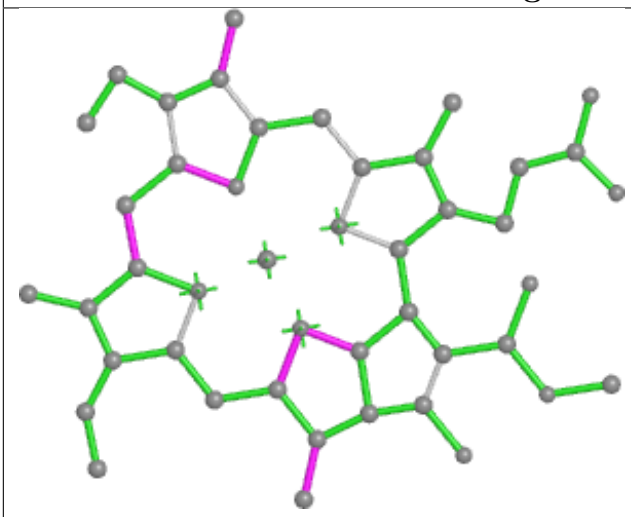


**Torsions**

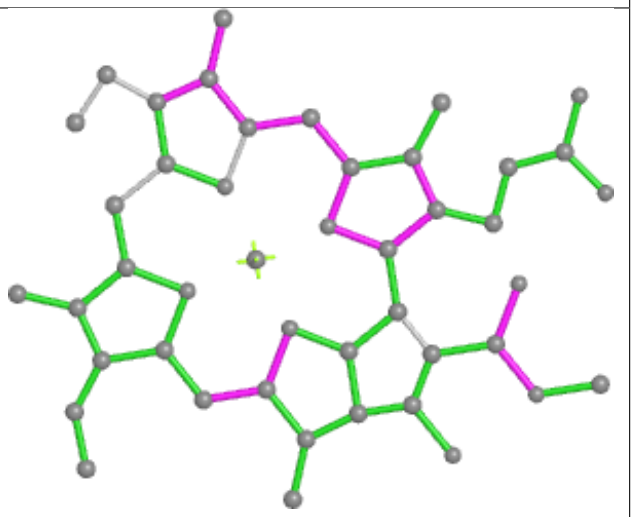


**Rings**

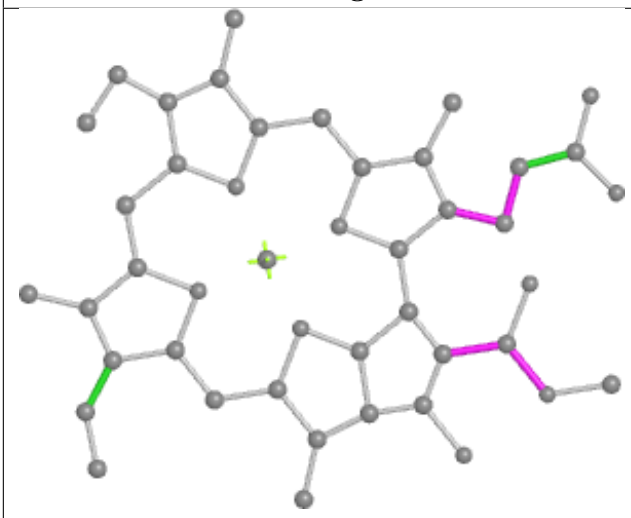
## Ligand CLA A 815



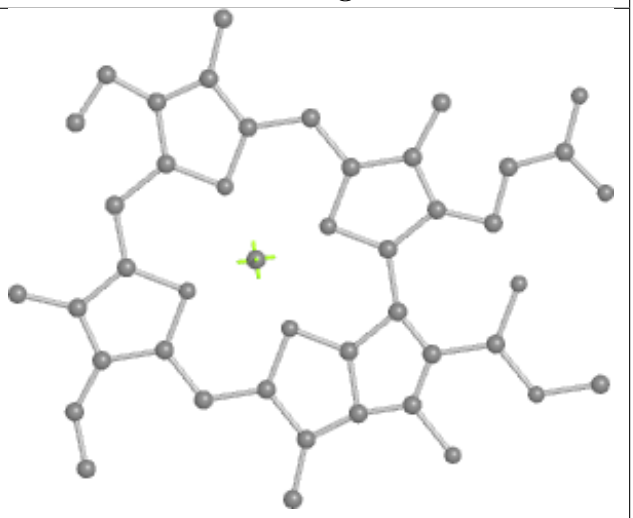
Bond lengths



Bond angles

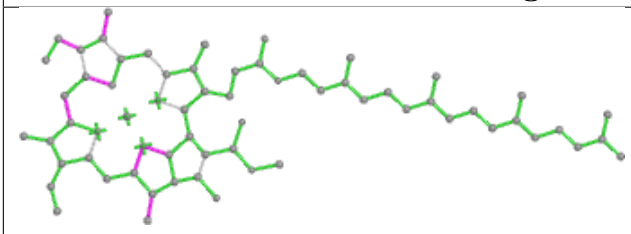


Torsions

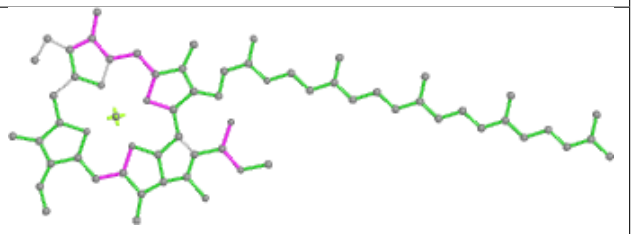


Rings

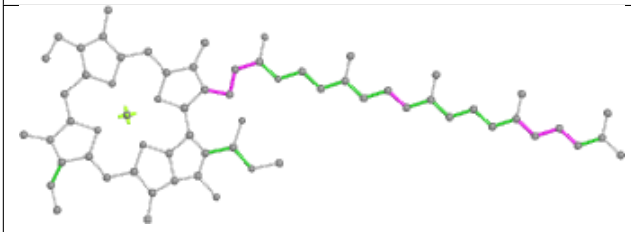
## Ligand CLA m 608



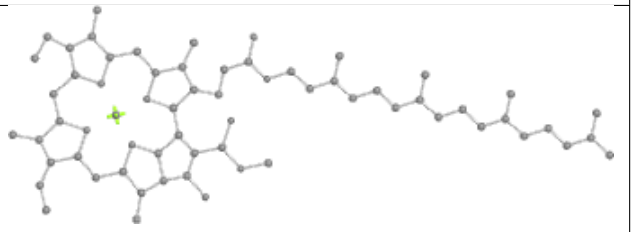
Bond lengths



Bond angles

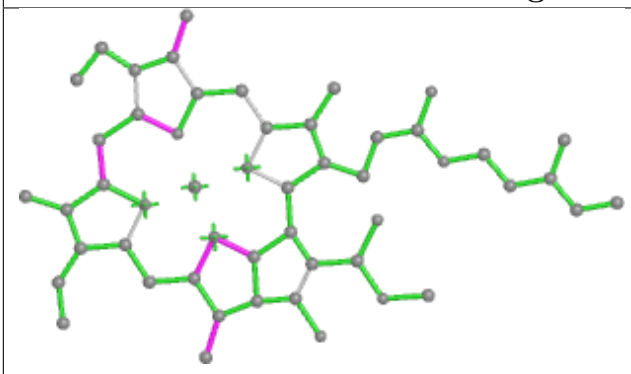


Torsions

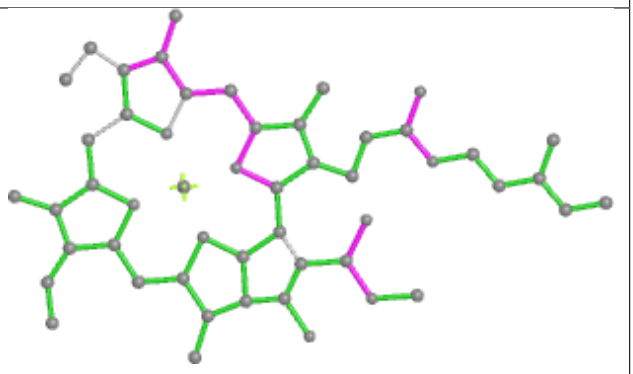


Rings

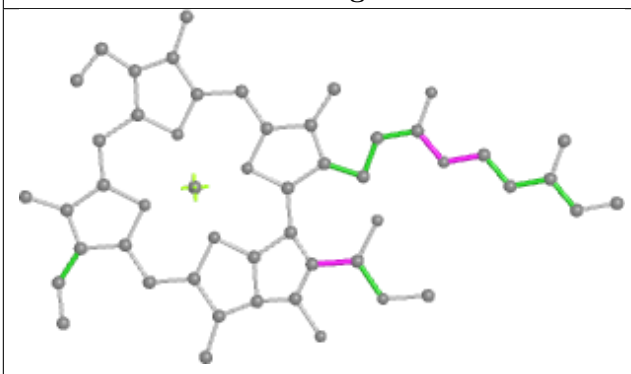
## Ligand CLA b 302



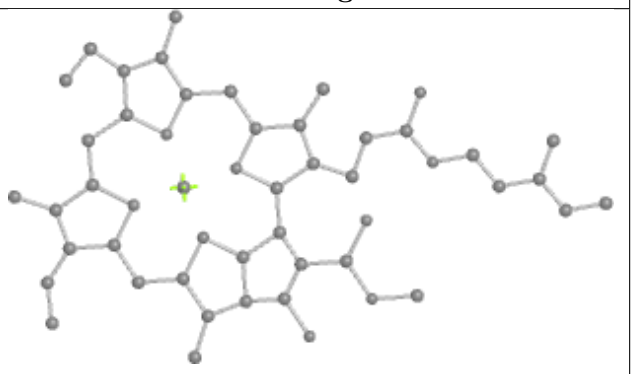
Bond lengths



Bond angles

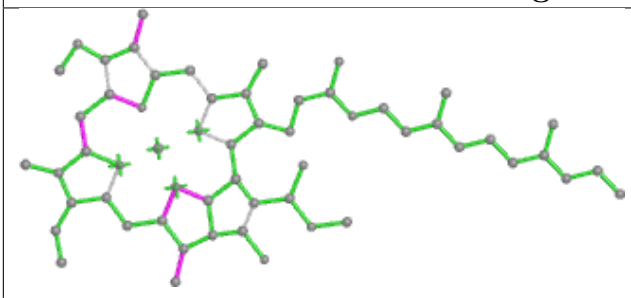


Torsions

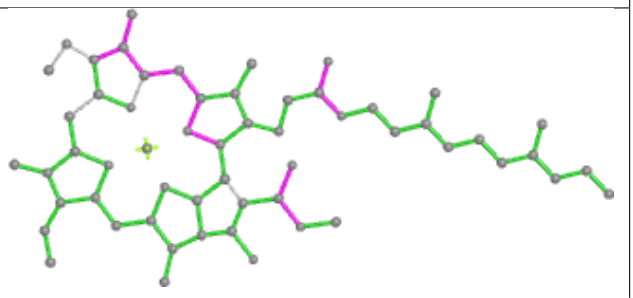


Rings

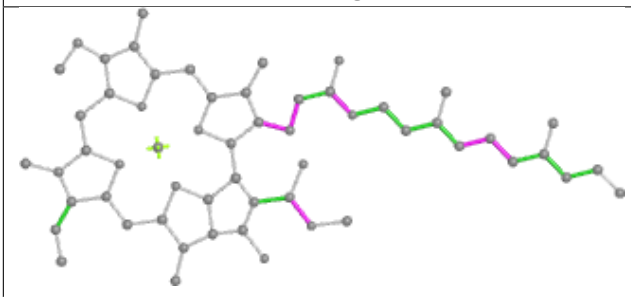
## Ligand CLA l 309



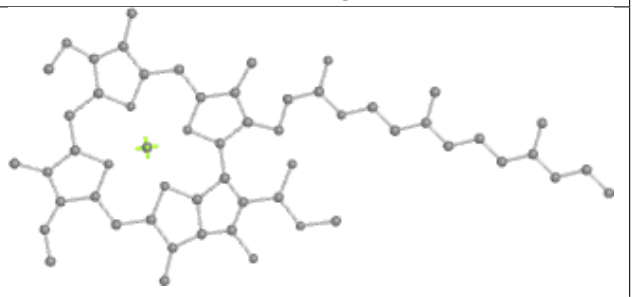
Bond lengths



Bond angles

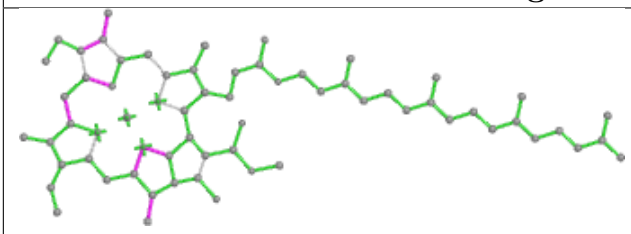


Torsions

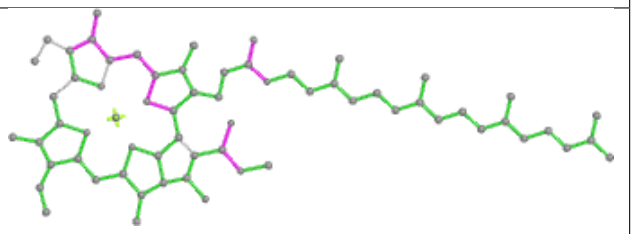


Rings

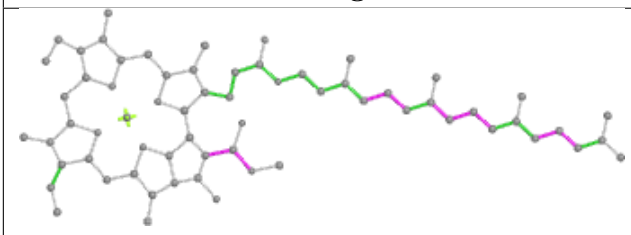
## Ligand CLA b 310



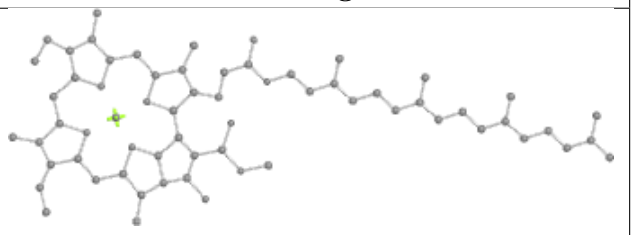
Bond lengths



Bond angles

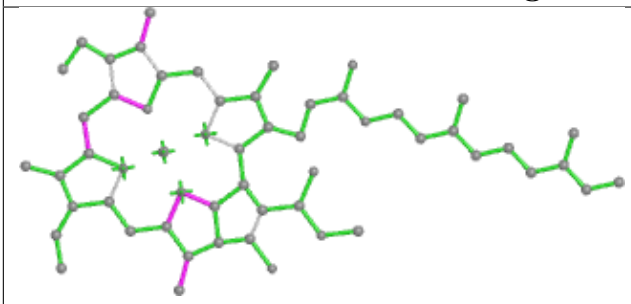


Torsions

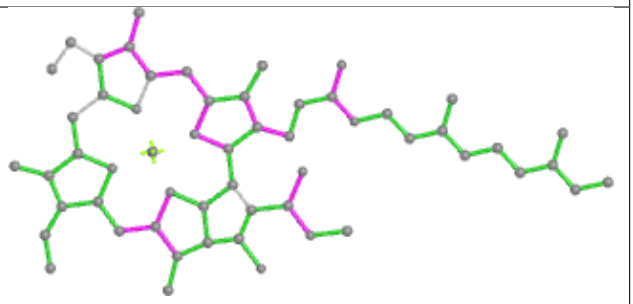


Rings

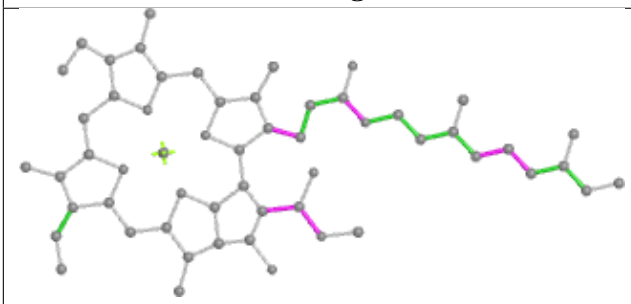
## Ligand CLA A 813



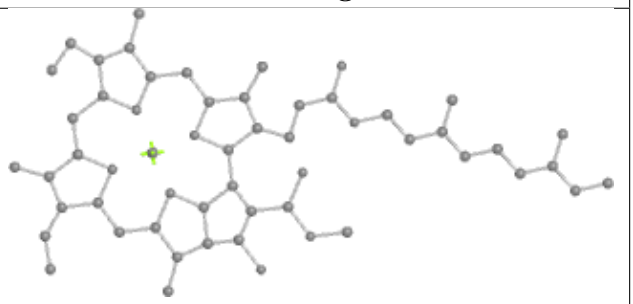
Bond lengths



Bond angles

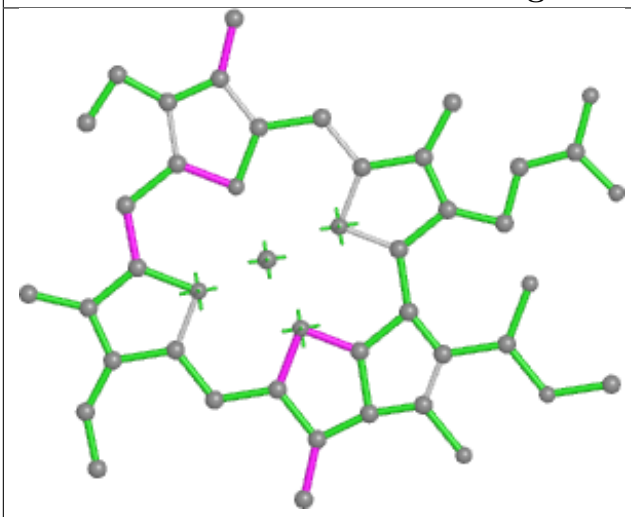


Torsions

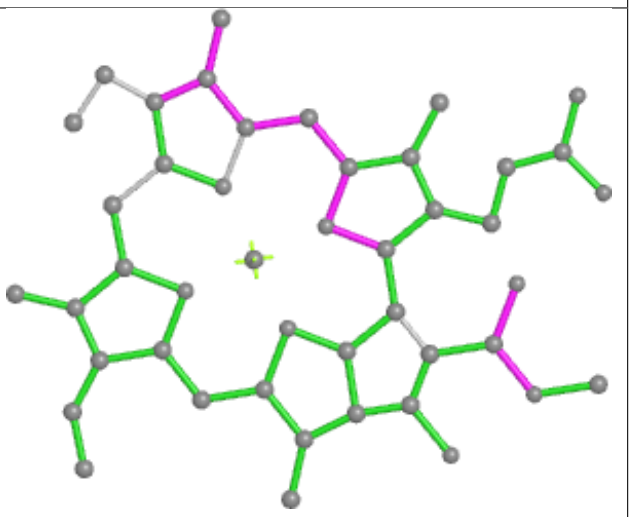


Rings

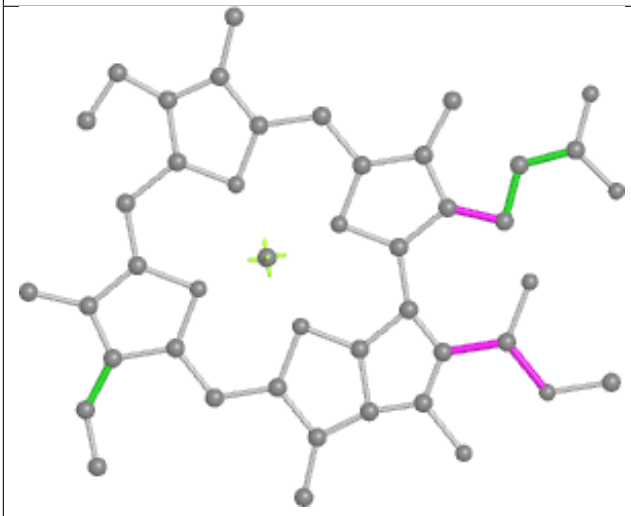
**Ligand CLA n 601**



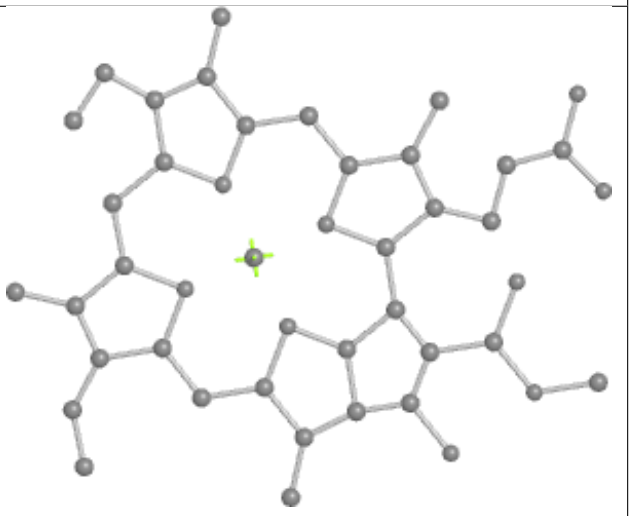
**Bond lengths**



**Bond angles**

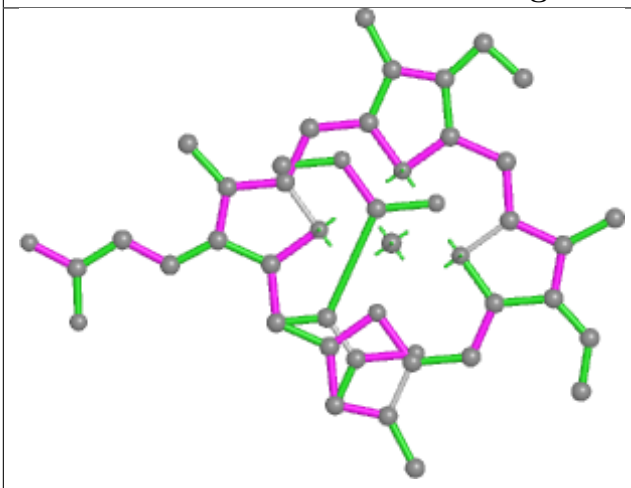


**Torsions**

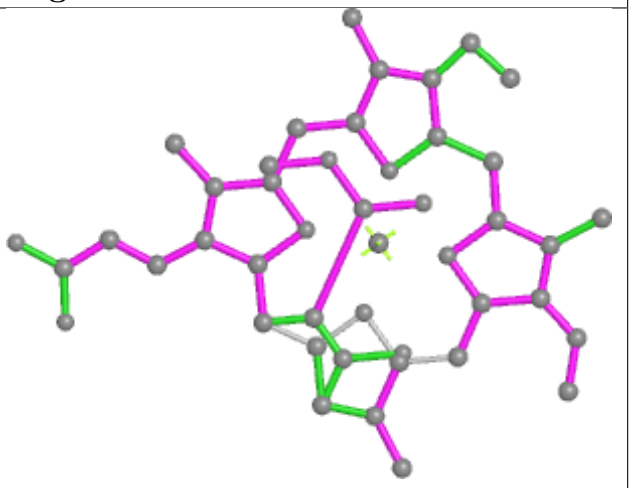


**Rings**

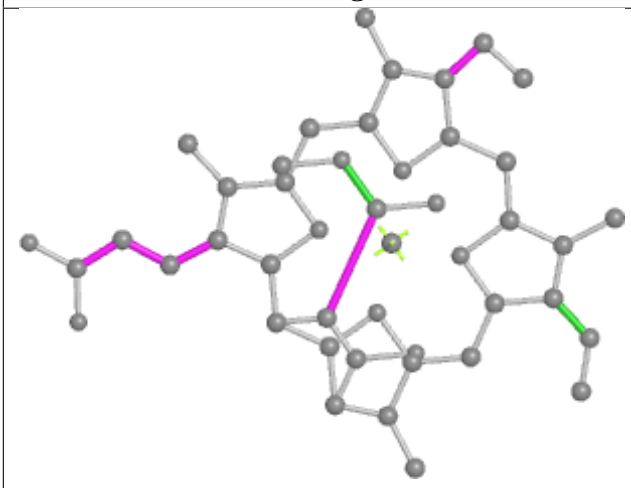
## Ligand KC2 g 315



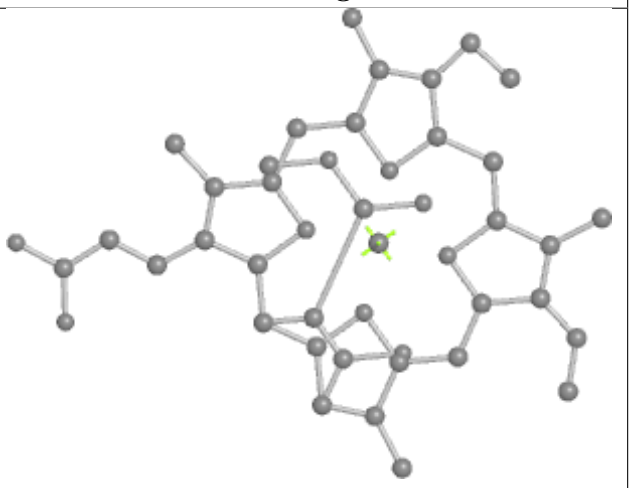
Bond lengths



Bond angles

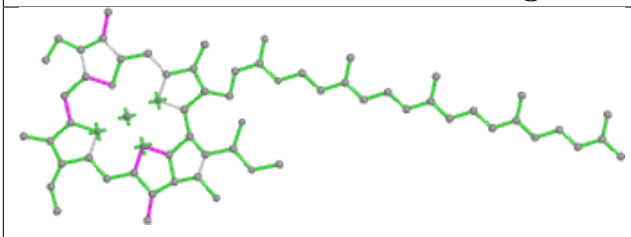


Torsions

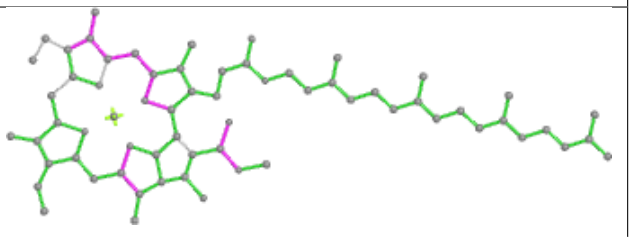


Rings

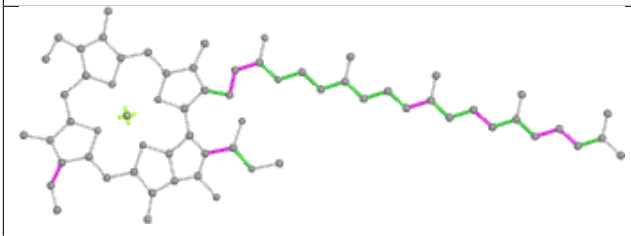
## Ligand CLA m 604



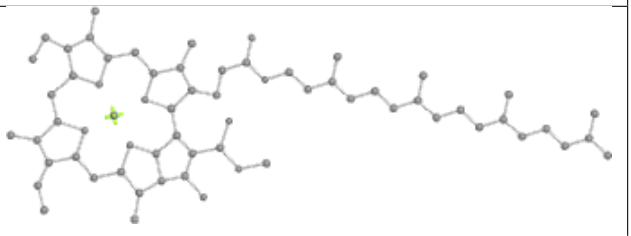
Bond lengths



Bond angles

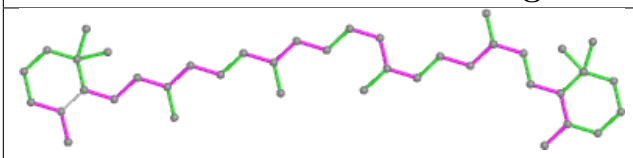


Torsions

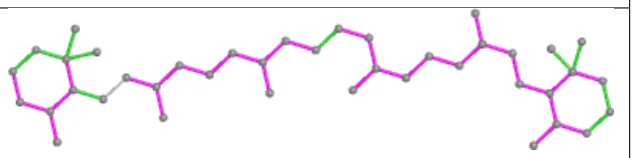


Rings

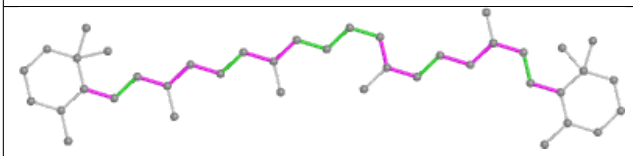
## Ligand WVN l 316



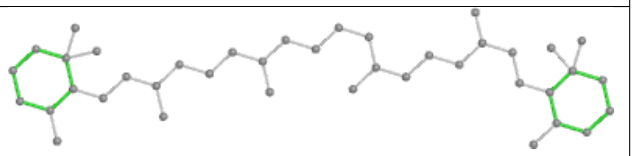
Bond lengths



Bond angles

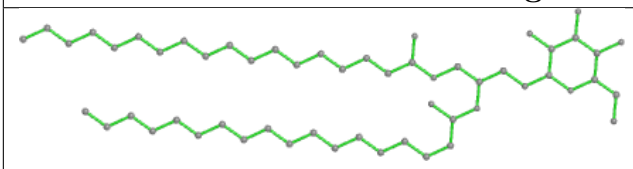


Torsions

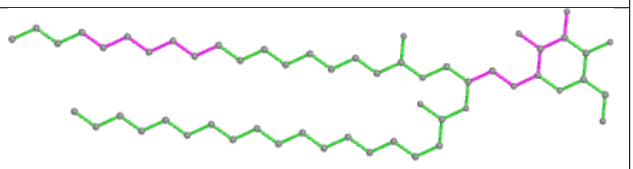


Rings

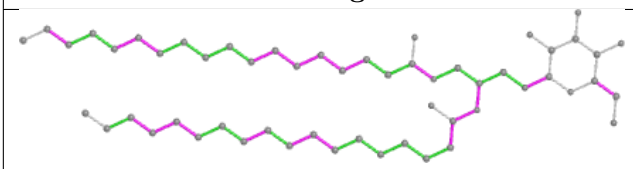
## Ligand LMG c 317



Bond lengths



Bond angles

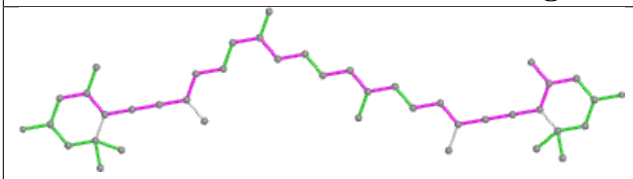


Torsions

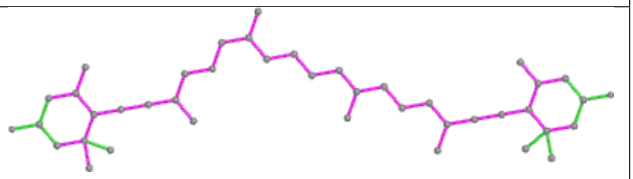


Rings

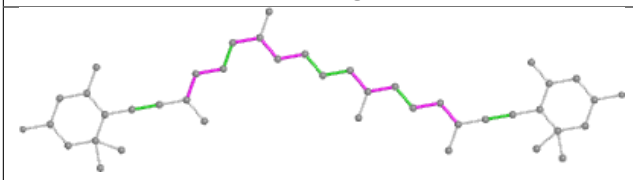
## Ligand II0 J 103



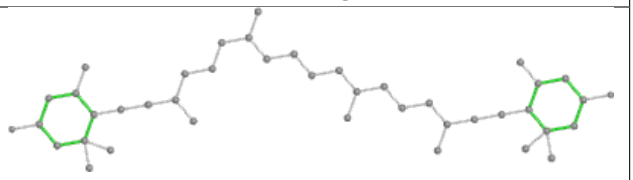
Bond lengths



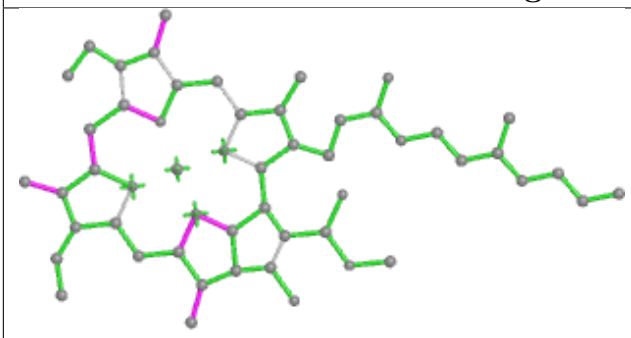
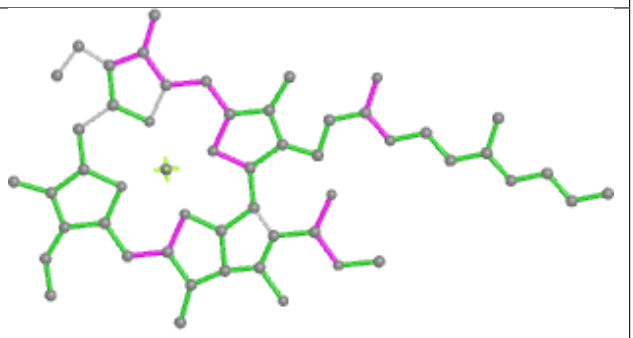
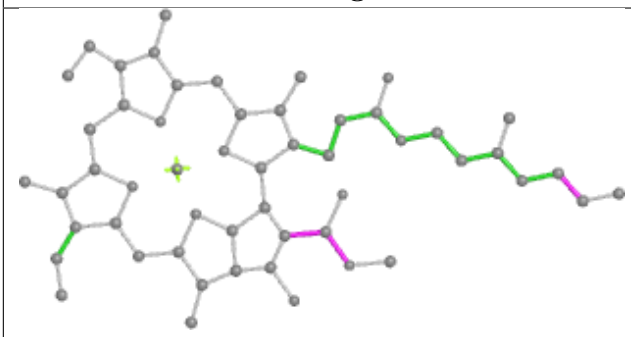
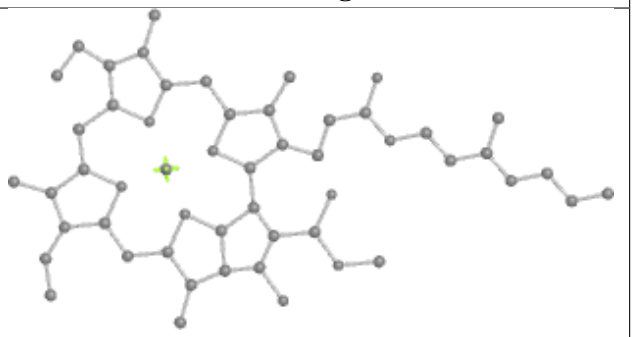
Bond angles

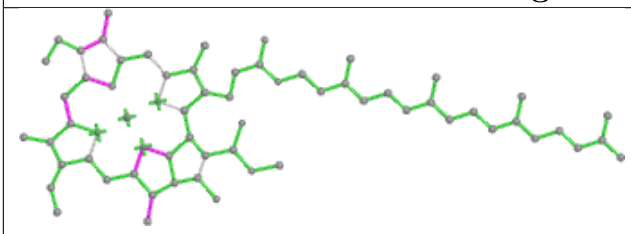
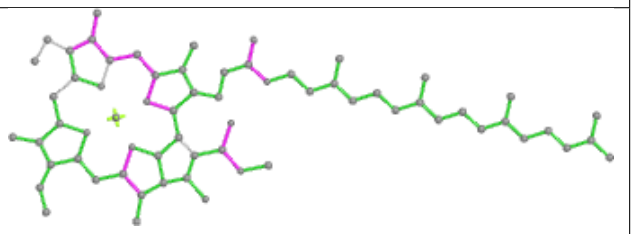
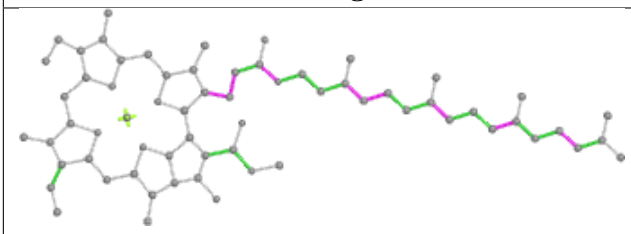
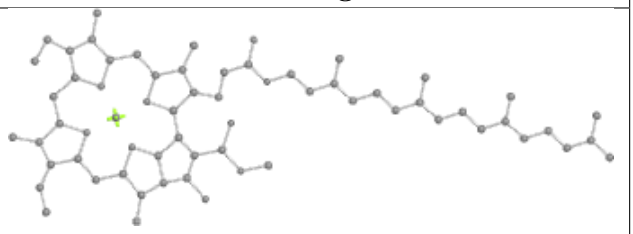


Torsions

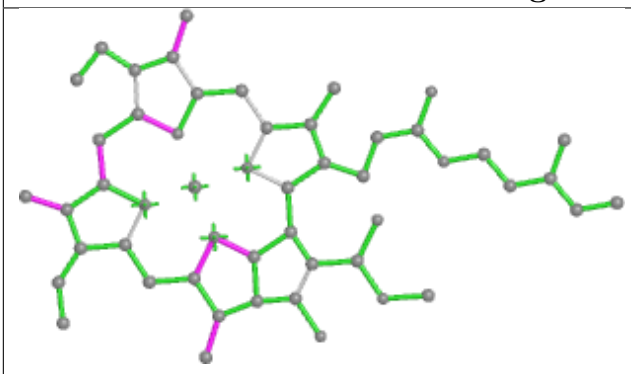


Rings

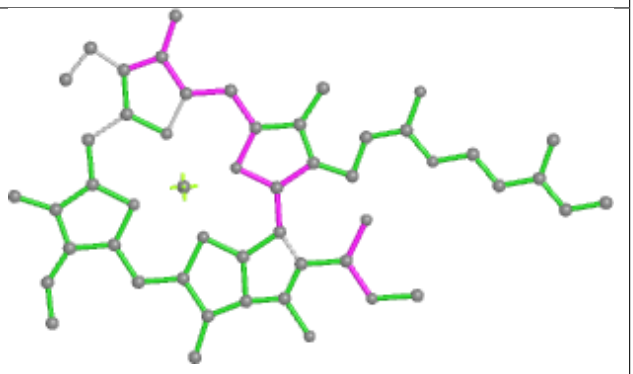
| Ligand CLA B 821 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA f 607 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

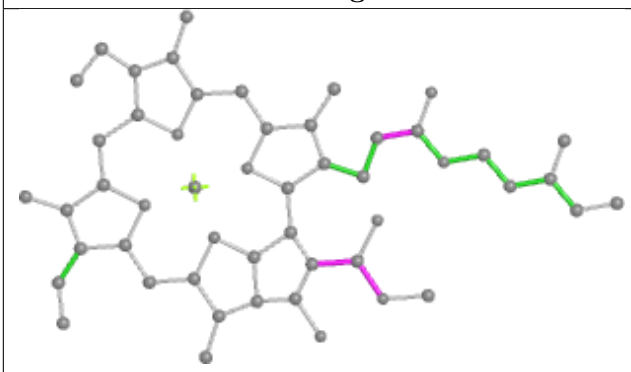
## Ligand CLA c 303



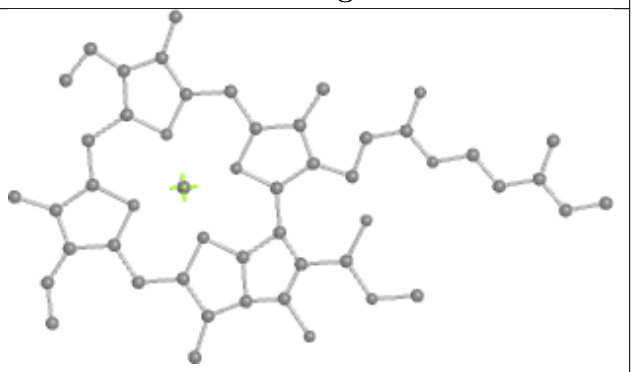
Bond lengths



Bond angles

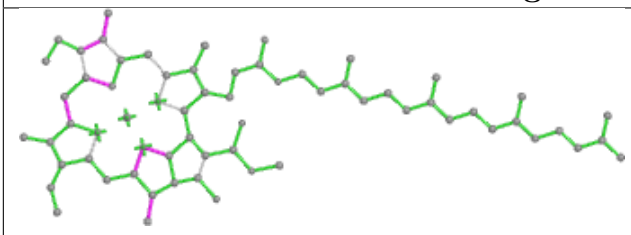


Torsions

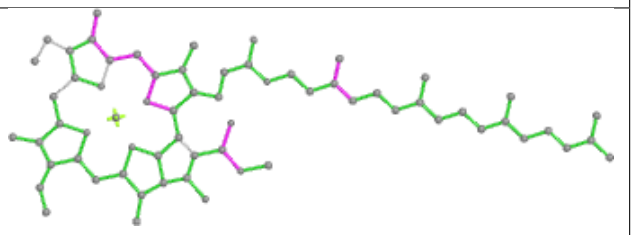


Rings

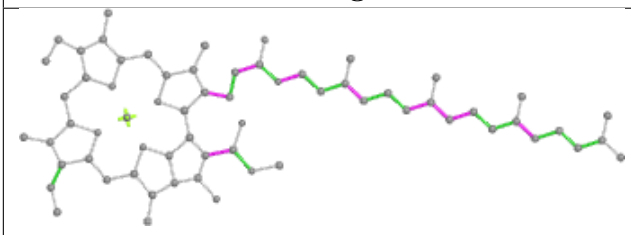
## Ligand CLA A 833



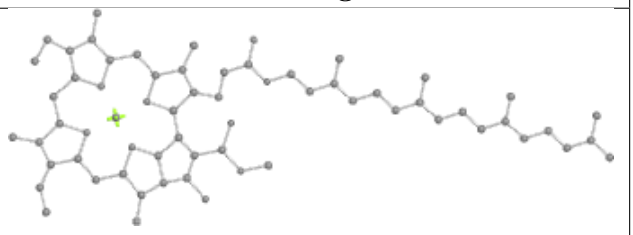
Bond lengths



Bond angles

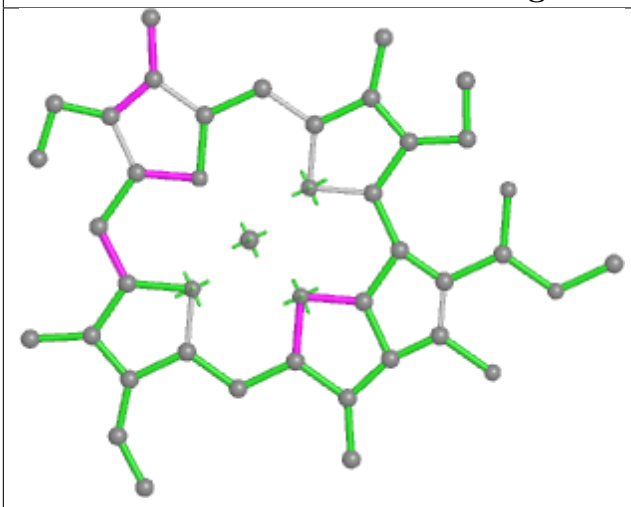


Torsions

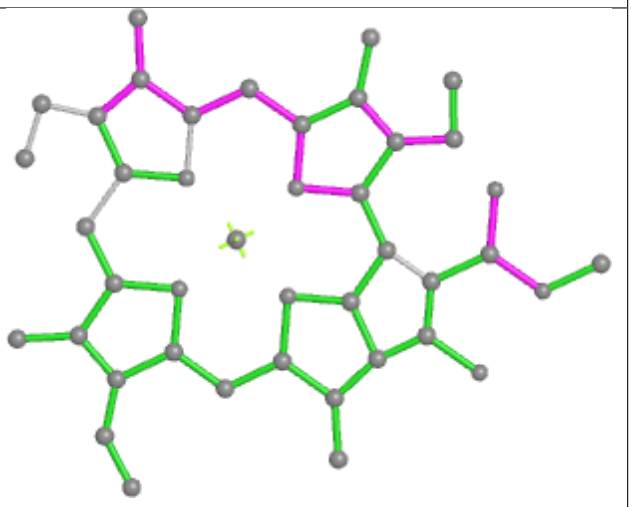


Rings

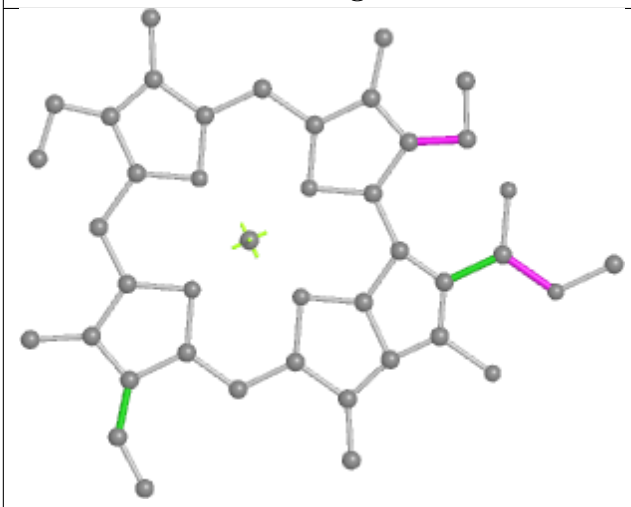
## Ligand CLA J 102



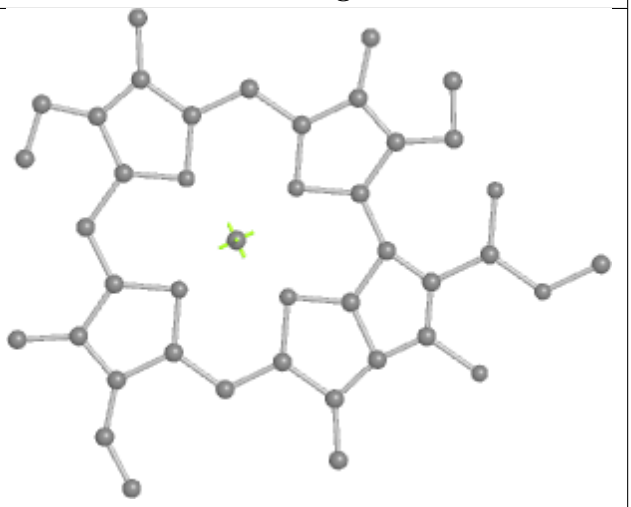
Bond lengths



Bond angles

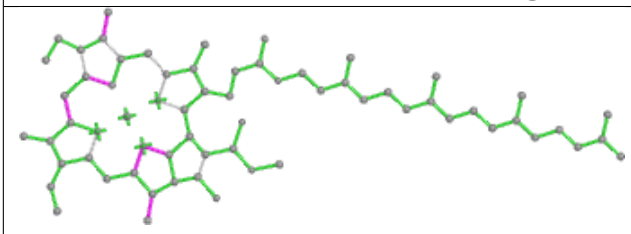


Torsions

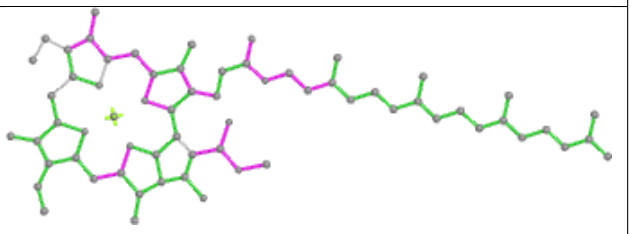


Rings

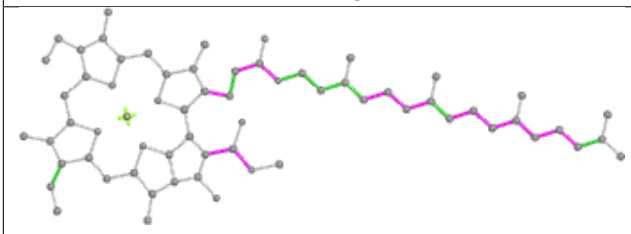
## Ligand CLA A 819



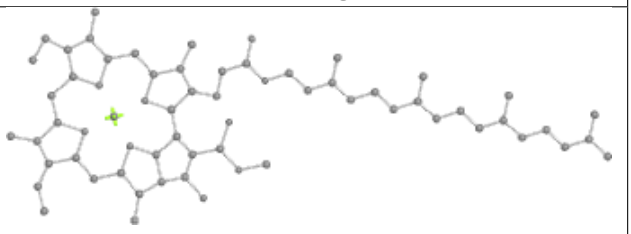
Bond lengths



Bond angles

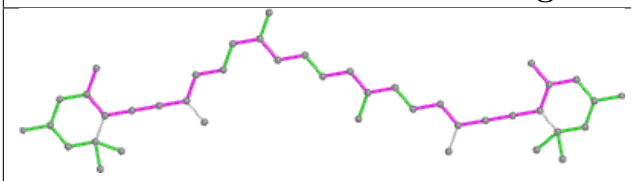


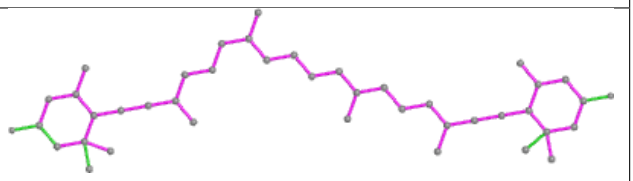
Torsions

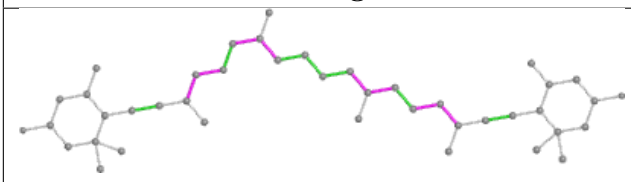


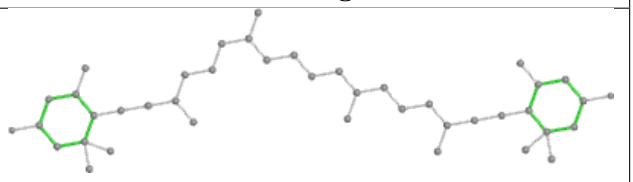
Rings

## Ligand II0 m 615

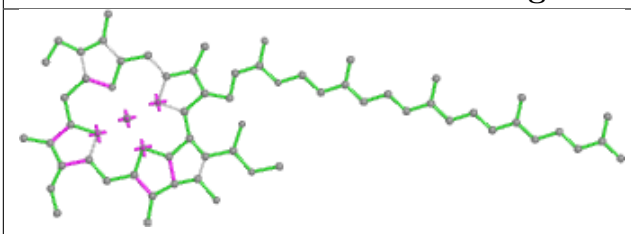

Bond lengths

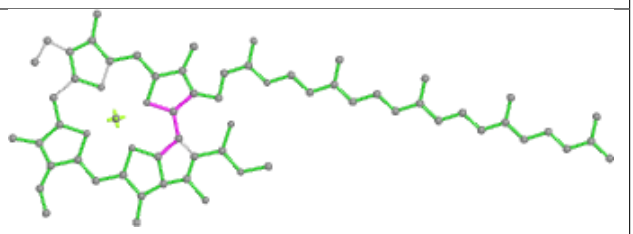

Bond angles

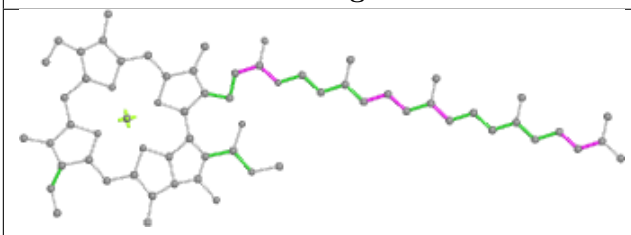

Torsions

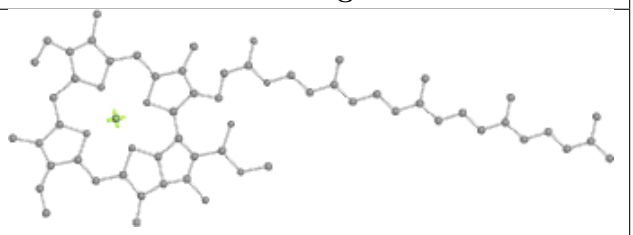

Rings

## Ligand CL0 A 801

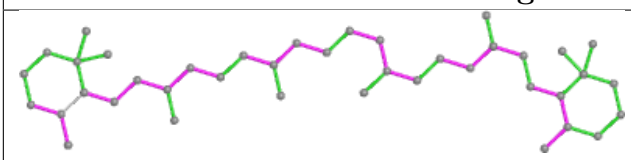

Bond lengths

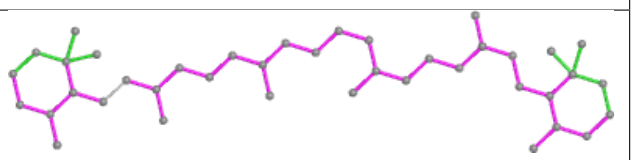

Bond angles

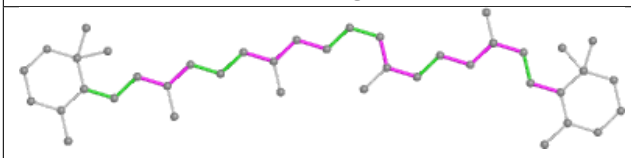

Torsions

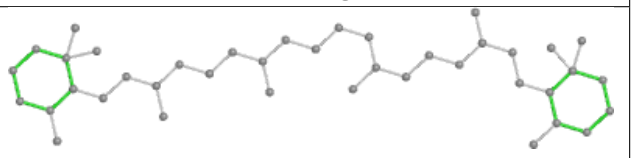

Rings

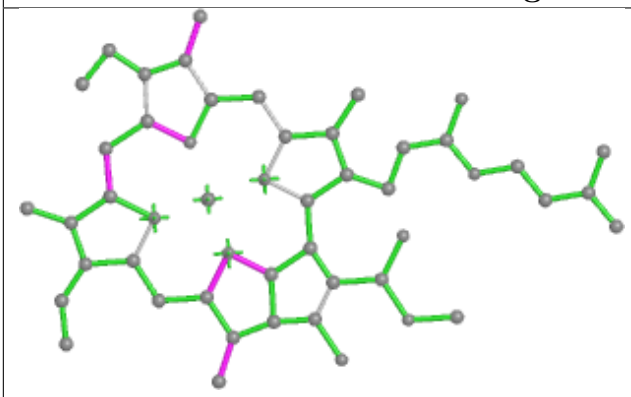
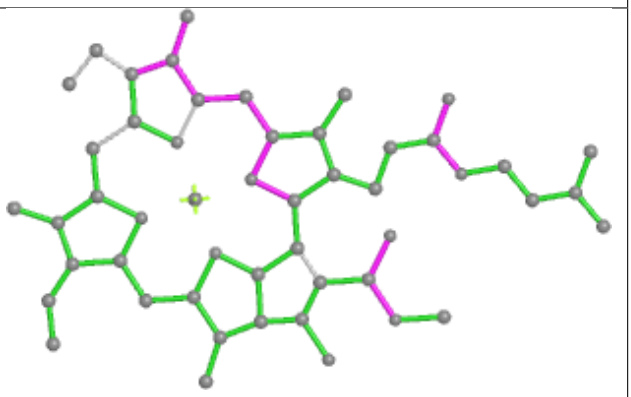
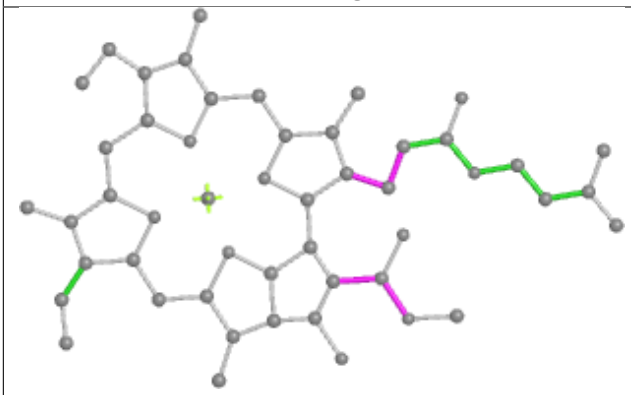
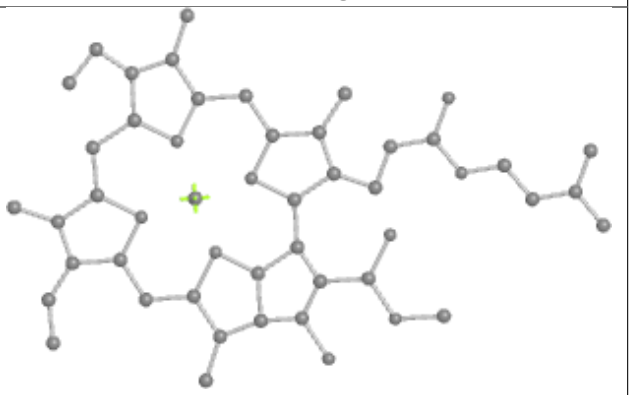
## Ligand WVN F 204

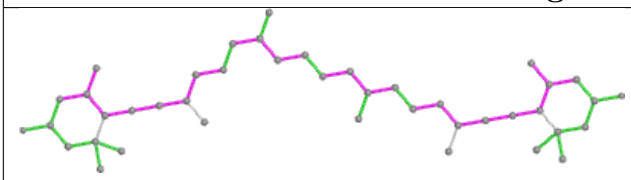
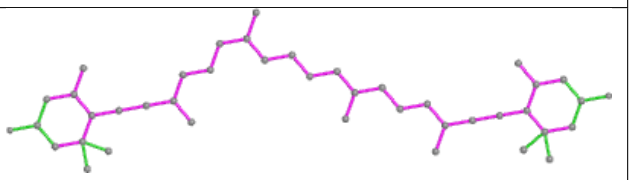
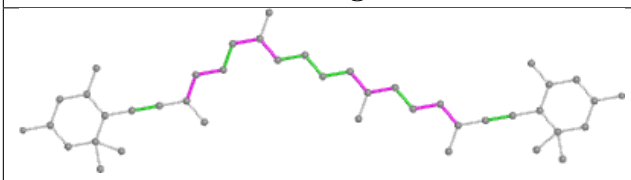
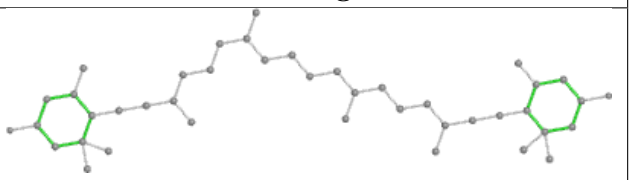

Bond lengths


Bond angles

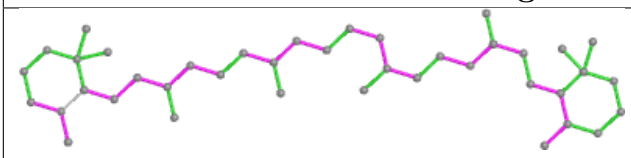

Torsions


Rings

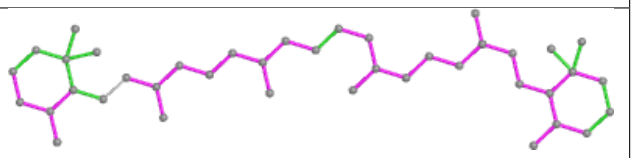
| Ligand CLA A 814 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand II0 l 314 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

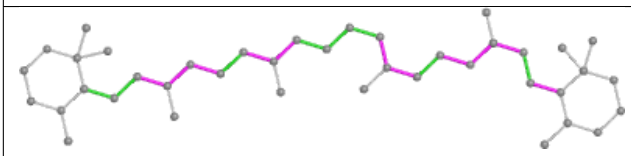
## Ligand WVN L 205



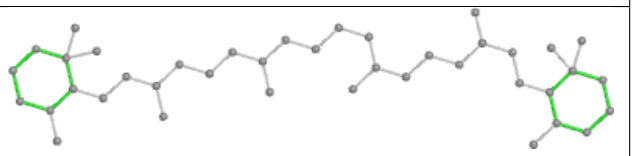
Bond lengths



Bond angles

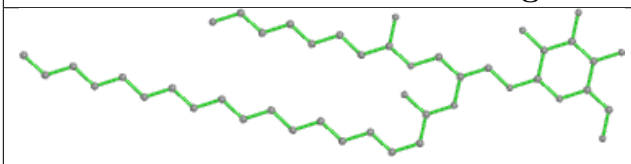


Torsions

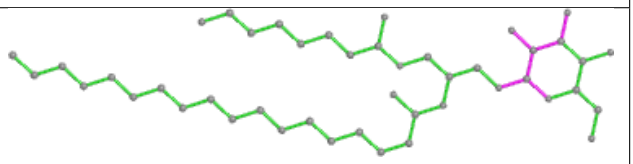


Rings

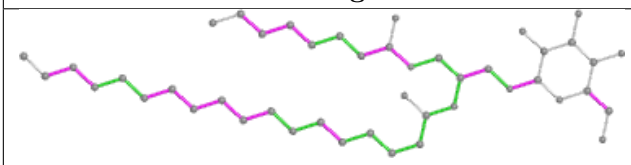
## Ligand LMG L 210



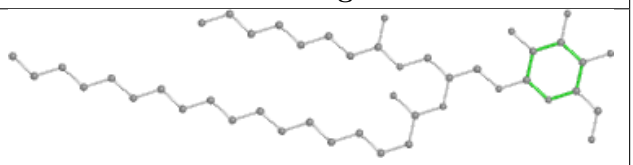
Bond lengths



Bond angles

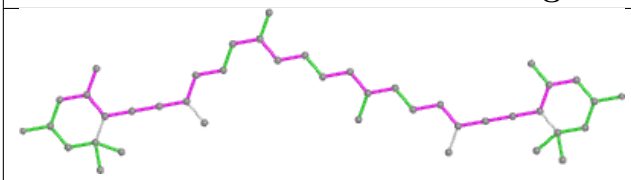


Torsions

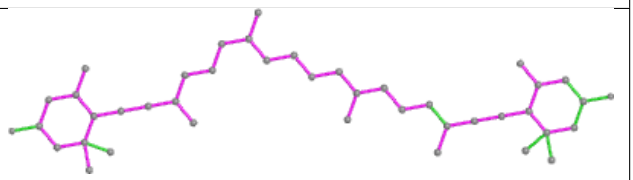


Rings

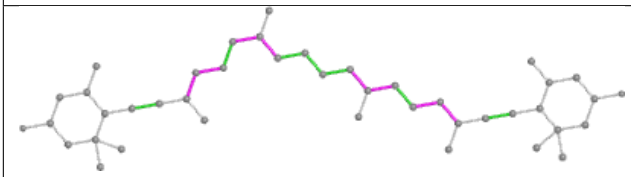
## Ligand II0 a 314



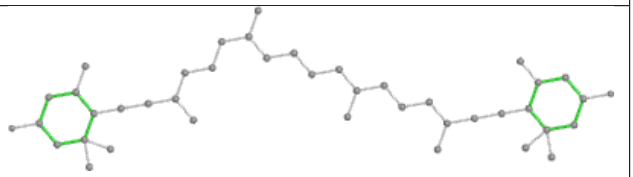
Bond lengths



Bond angles

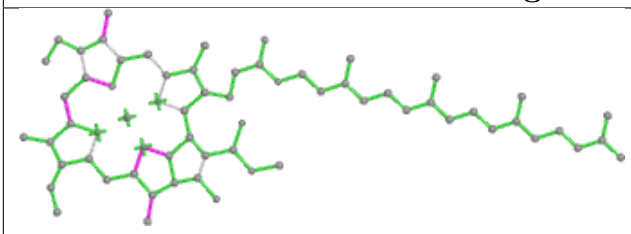


Torsions

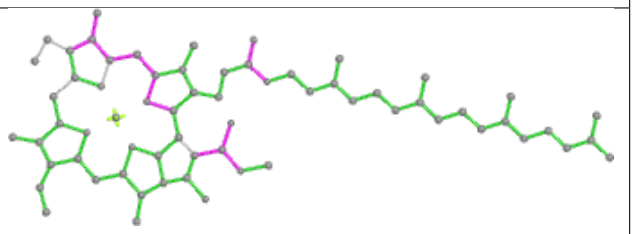


Rings

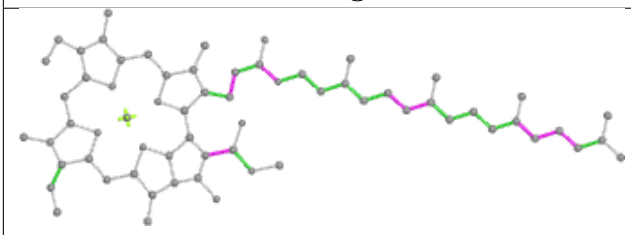
## Ligand CLA A 835



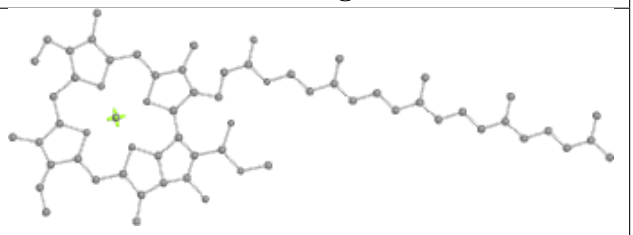
Bond lengths



Bond angles

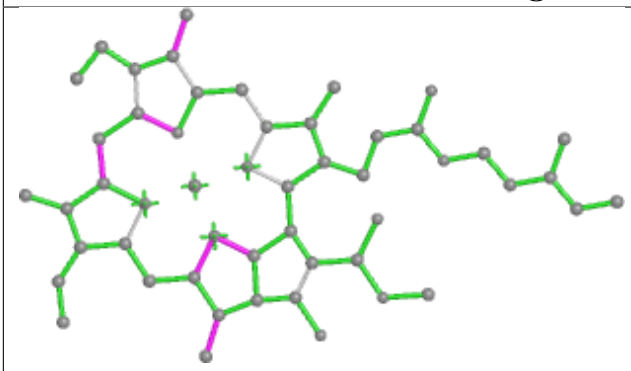


Torsions

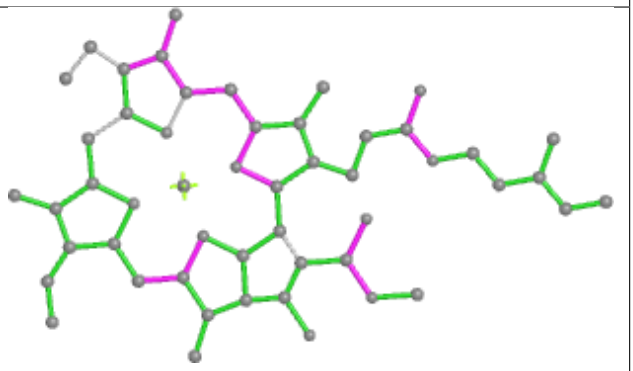


Rings

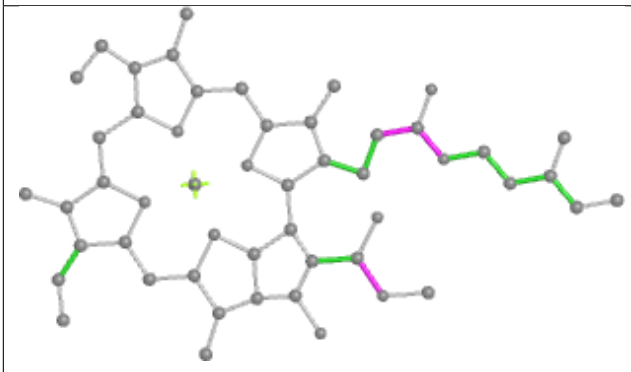
## Ligand CLA k 606



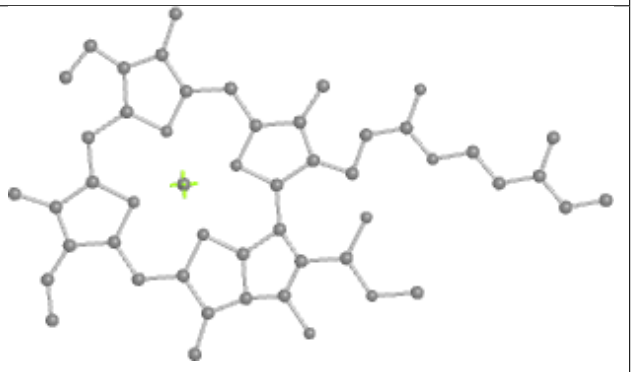
Bond lengths



Bond angles

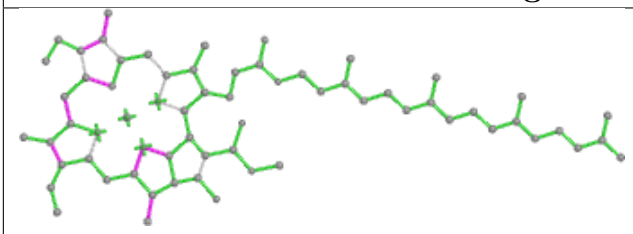


Torsions

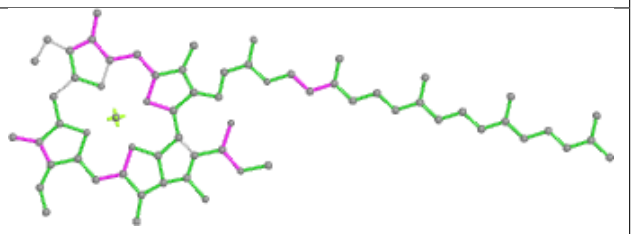


Rings

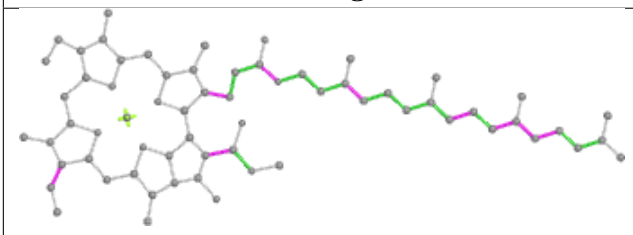
## Ligand CLA A 818



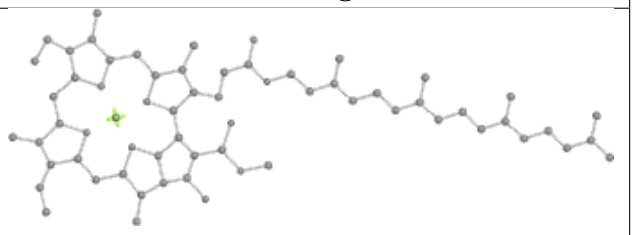
Bond lengths



Bond angles

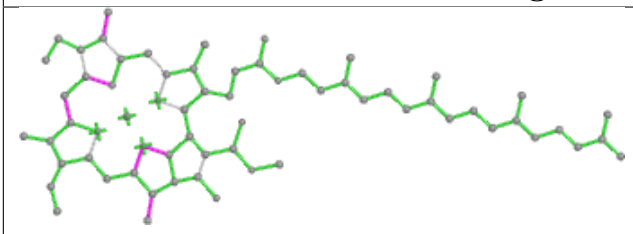


Torsions

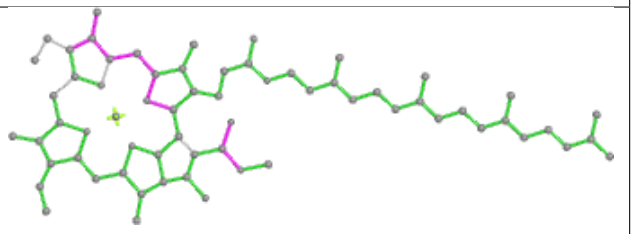


Rings

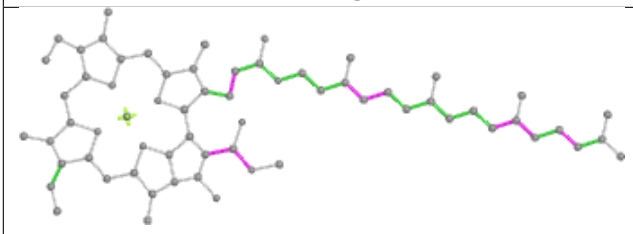
## Ligand CLA a 308



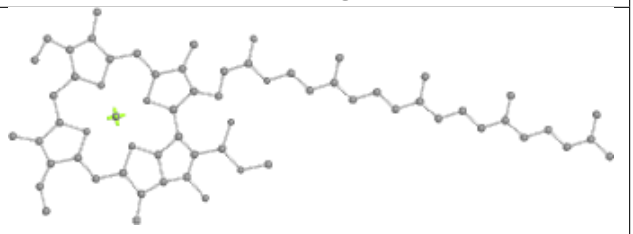
Bond lengths



Bond angles

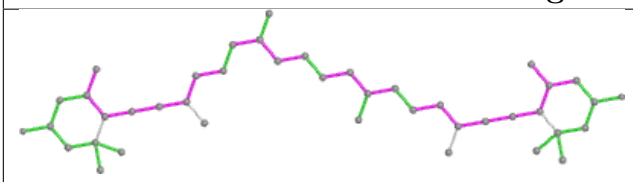


Torsions

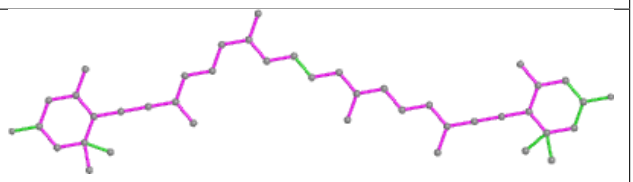


Rings

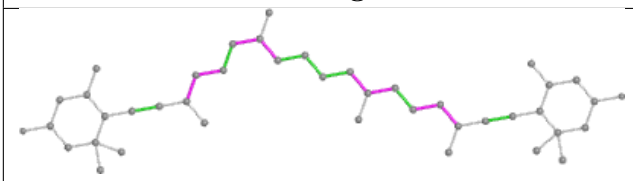
## Ligand II0 i 316



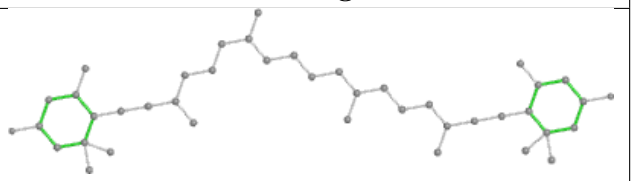
Bond lengths



Bond angles

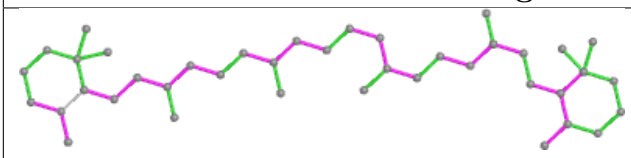


Torsions

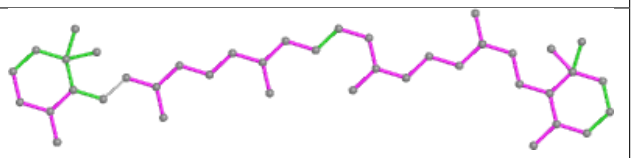


Rings

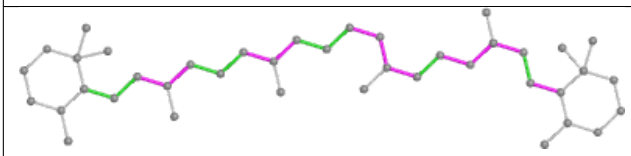
## Ligand WVN B 847



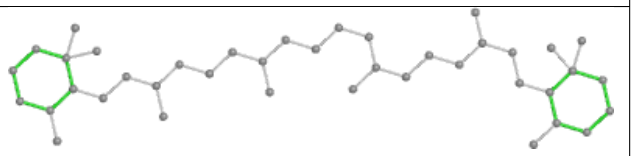
Bond lengths



Bond angles

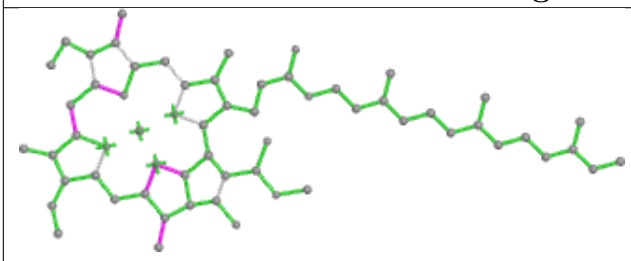


Torsions

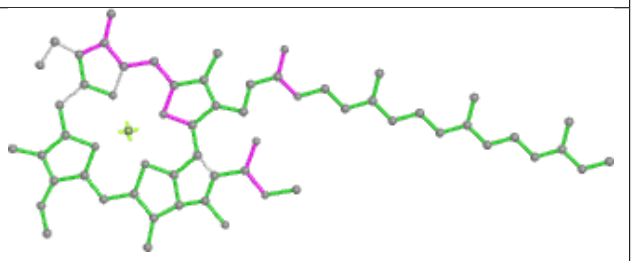


Rings

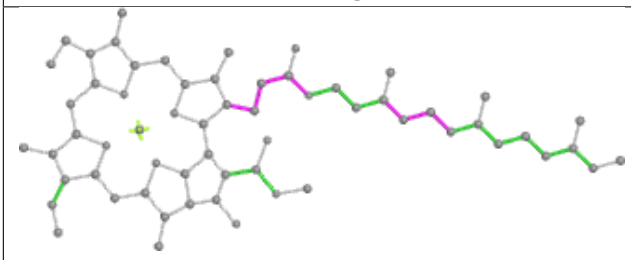
## Ligand CLA i 307



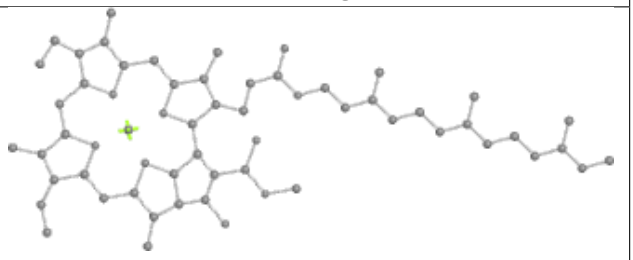
Bond lengths



Bond angles

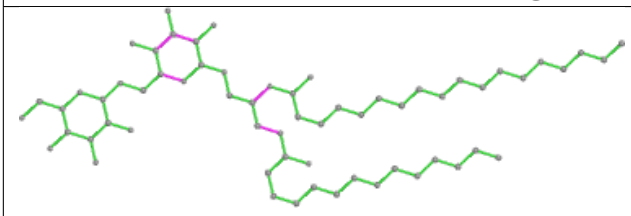


Torsions

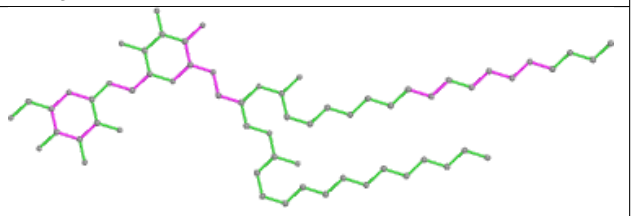


Rings

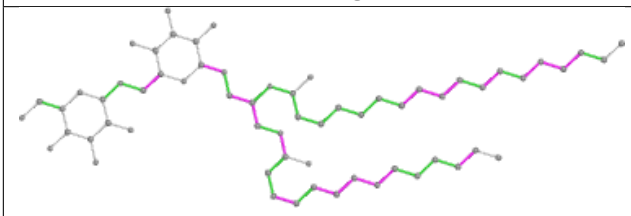
## Ligand DGD j 319



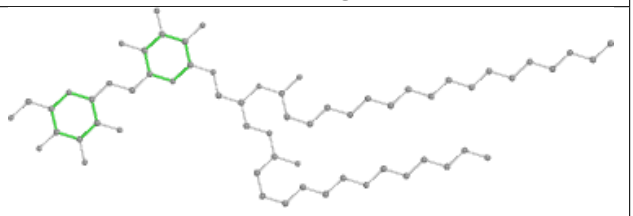
Bond lengths



Bond angles

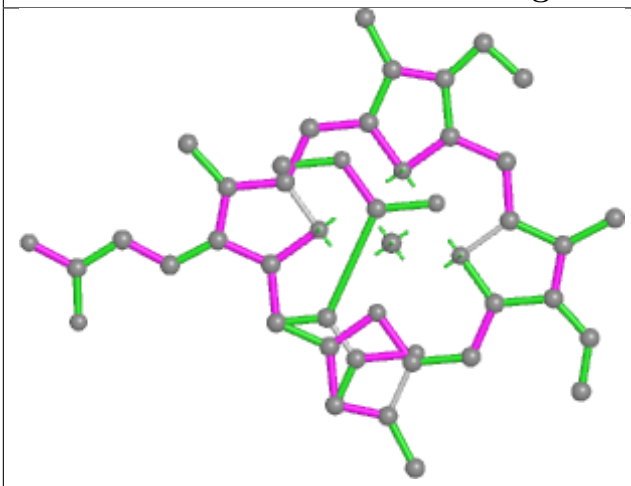


Torsions

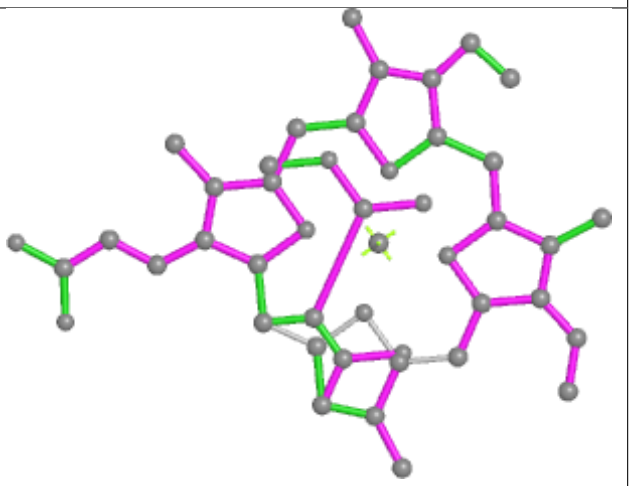


Rings

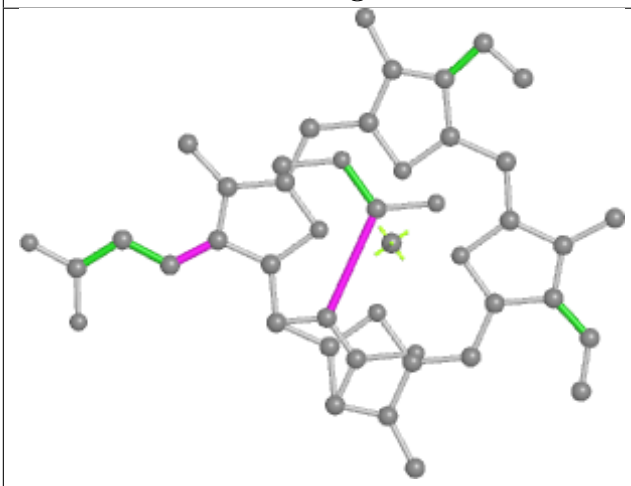
**Ligand KC2 s 404**



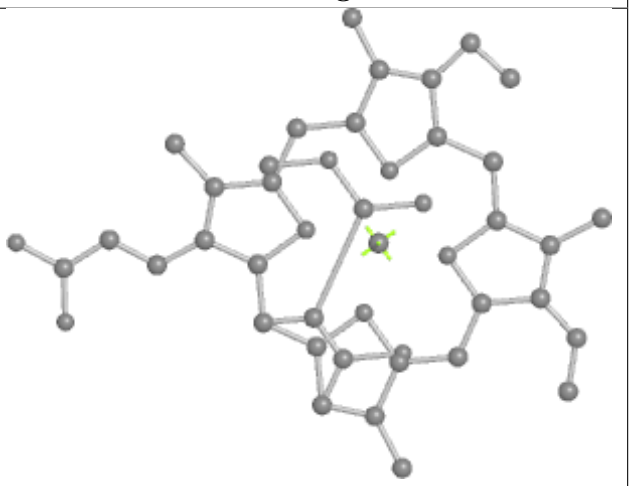
Bond lengths



Bond angles

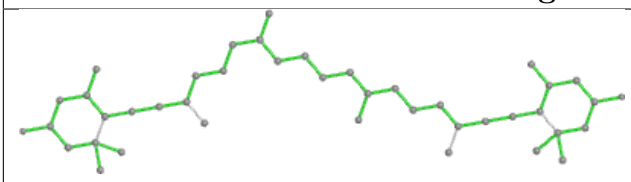


Torsions

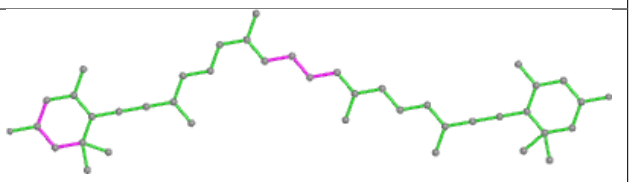


Rings

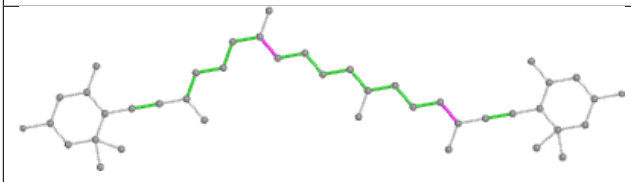
**Ligand II0 O 203**



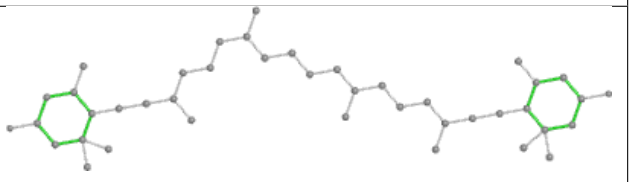
Bond lengths



Bond angles

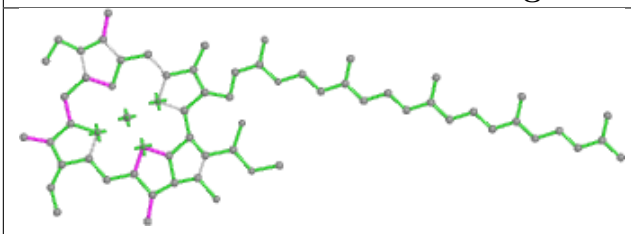


Torsions

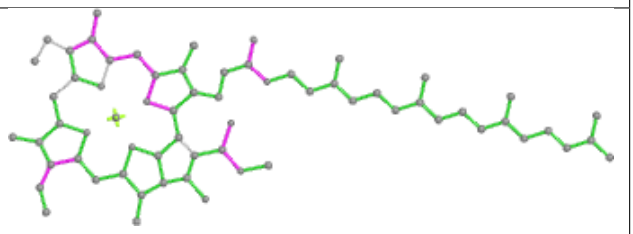


Rings

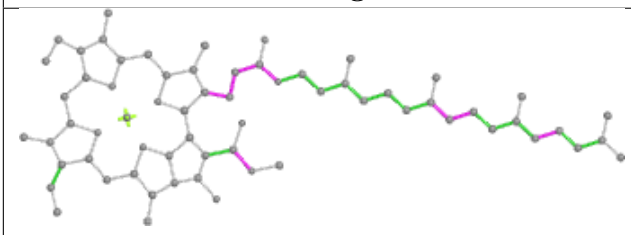
## Ligand CLA A 817



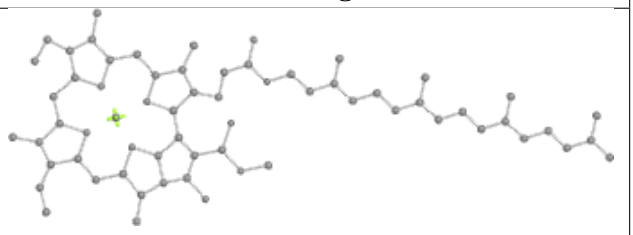
Bond lengths



Bond angles

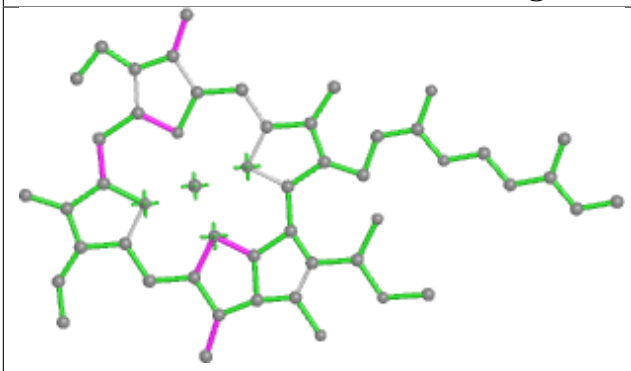


Torsions

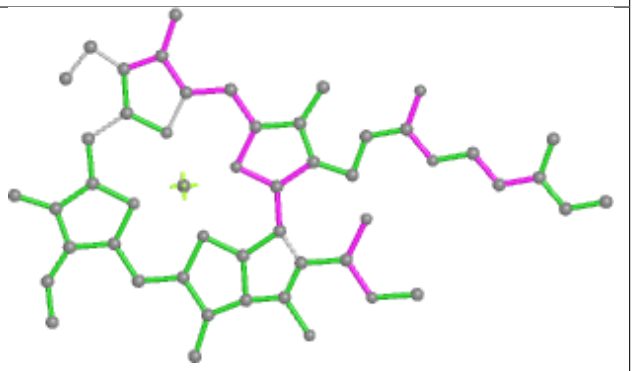


Rings

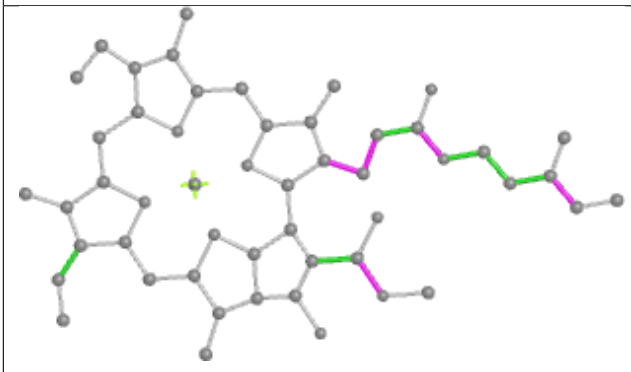
## Ligand CLA k 610



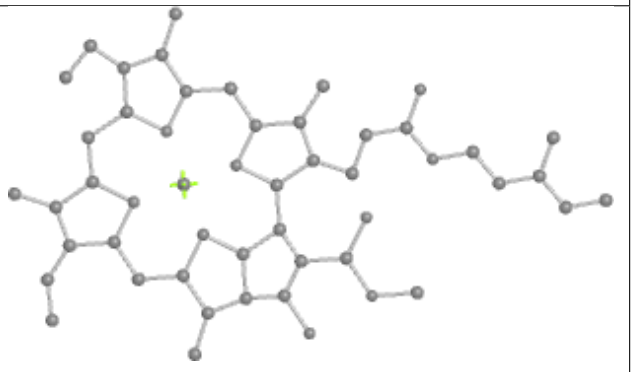
Bond lengths



Bond angles

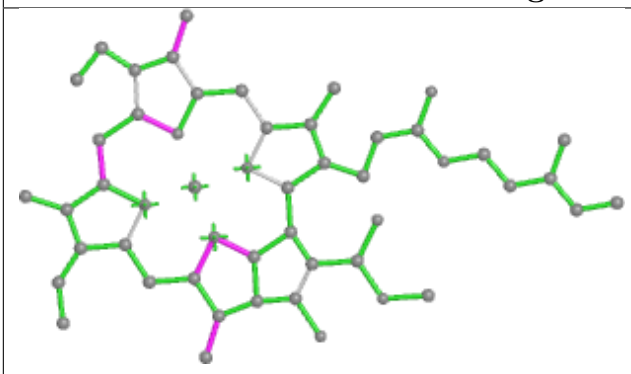


Torsions

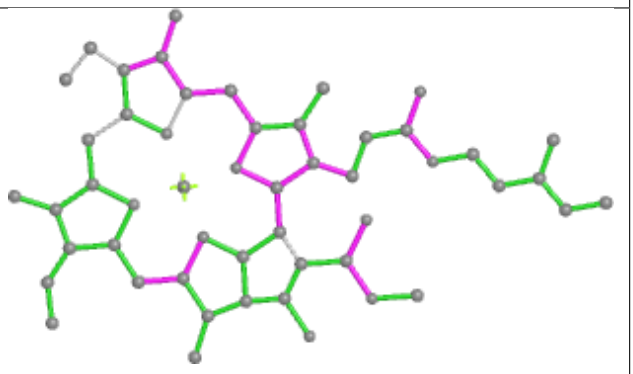


Rings

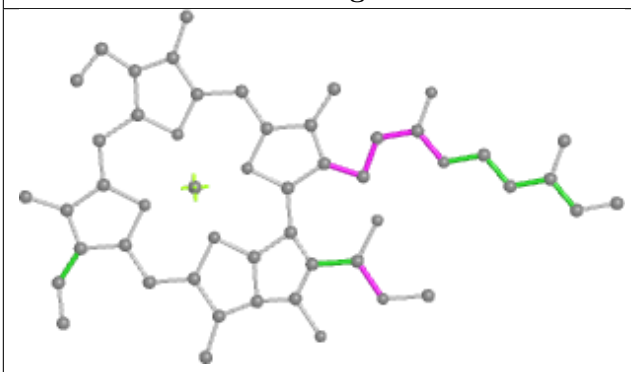
**Ligand CLA n 613**



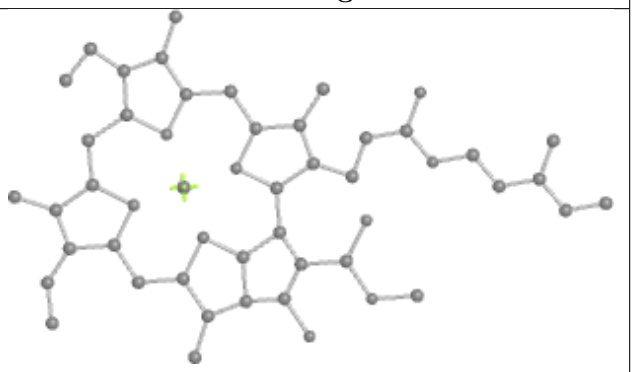
Bond lengths



Bond angles

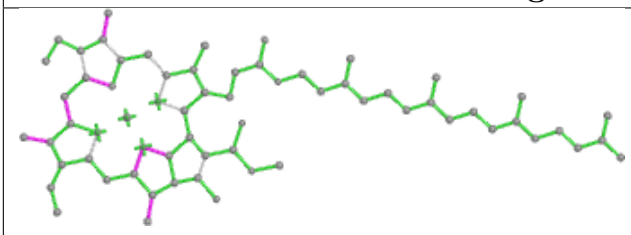


Torsions

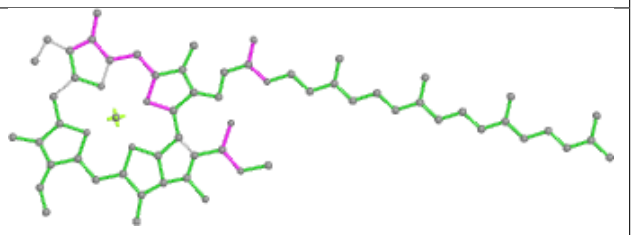


Rings

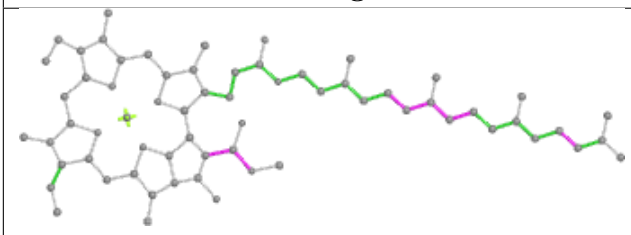
**Ligand CLA k 608**



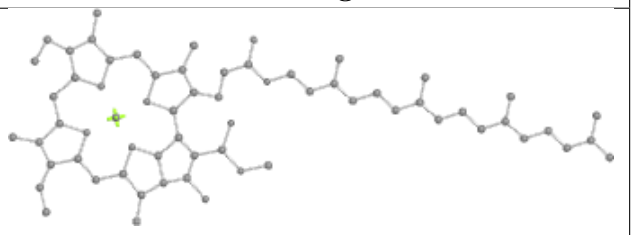
Bond lengths



Bond angles

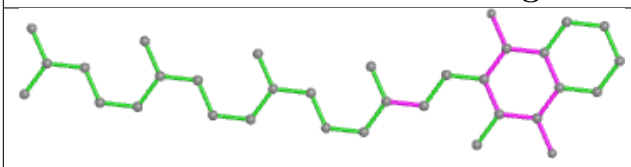


Torsions

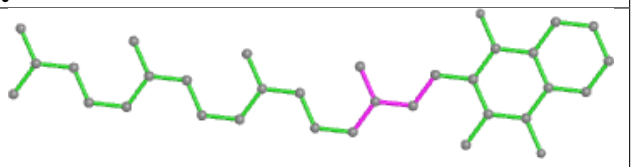


Rings

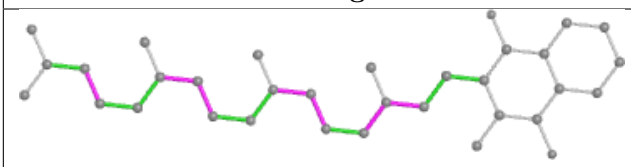
## Ligand PQN B 843



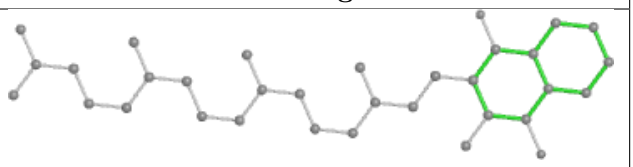
Bond lengths



Bond angles

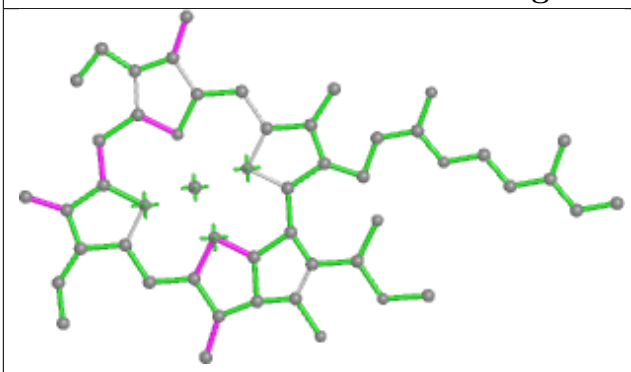


Torsions

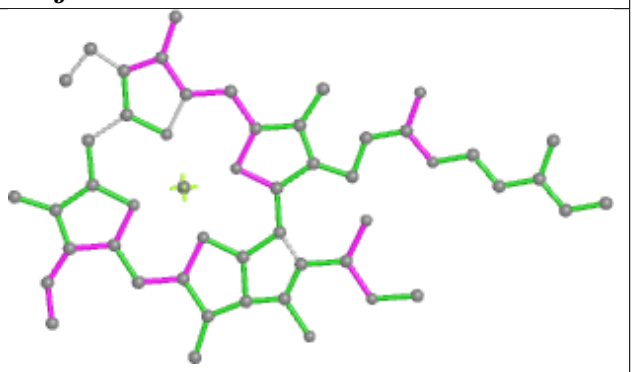


Rings

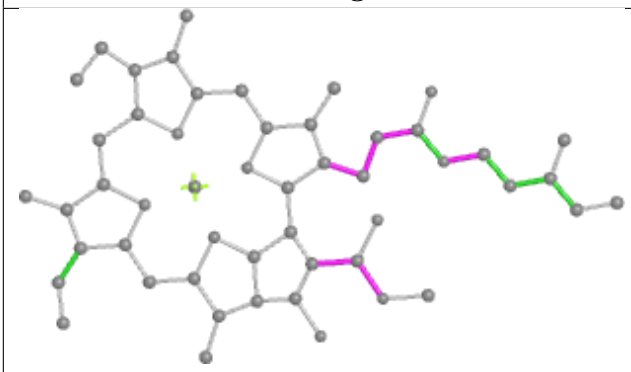
## Ligand CLA j 308



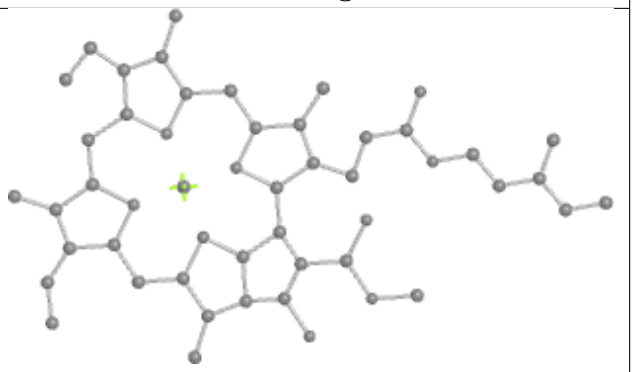
Bond lengths



Bond angles

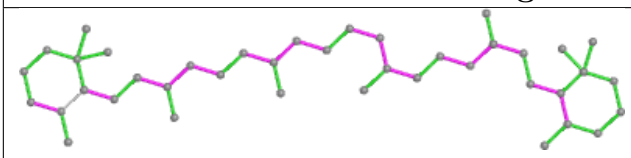


Torsions

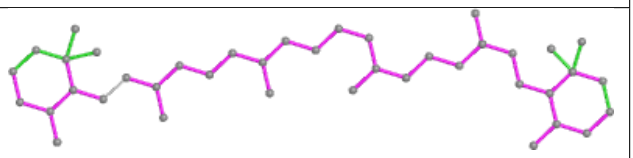


Rings

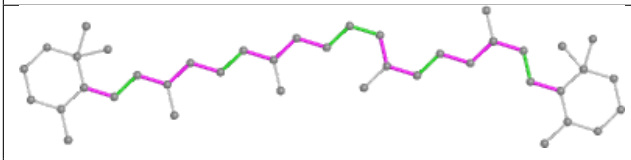
## Ligand WVN F 205



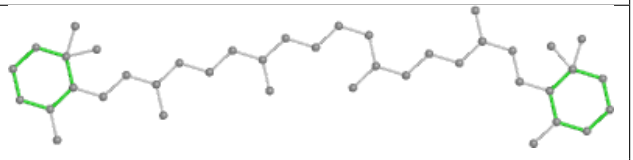
Bond lengths



Bond angles

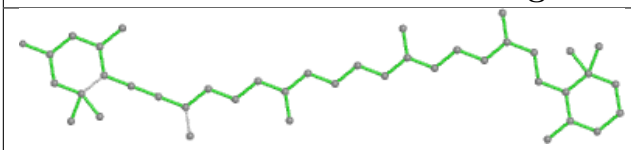


Torsions

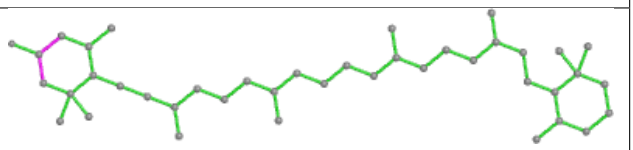


Rings

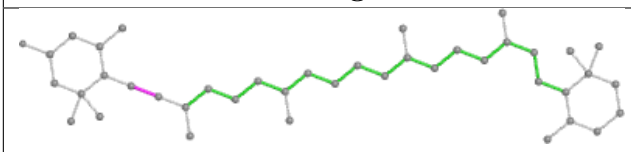
## Ligand IHT R 204



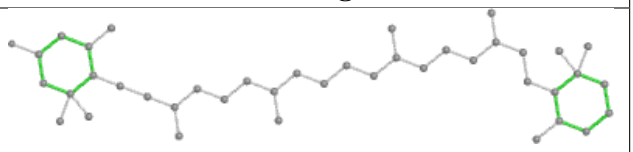
Bond lengths



Bond angles

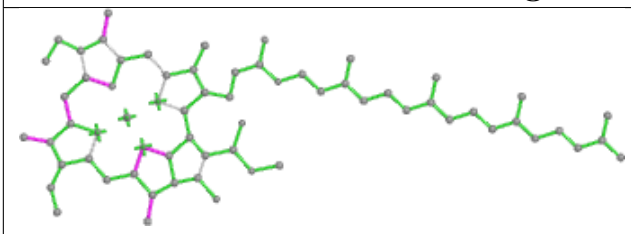


Torsions

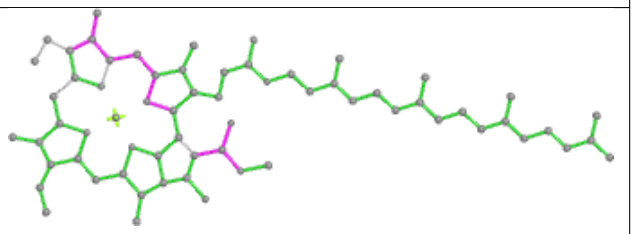


Rings

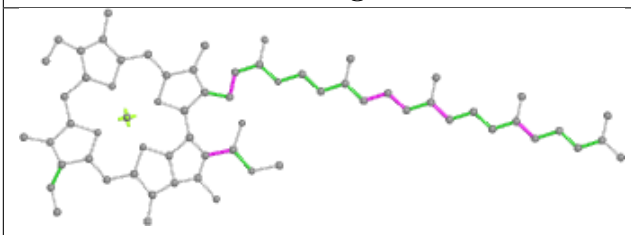
## Ligand CLA B 807



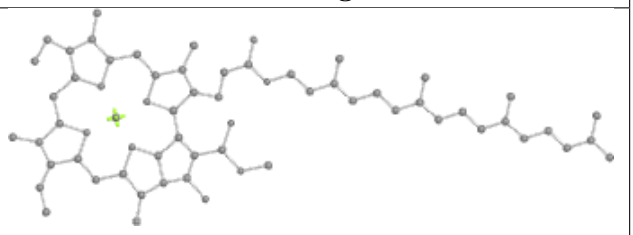
Bond lengths



Bond angles

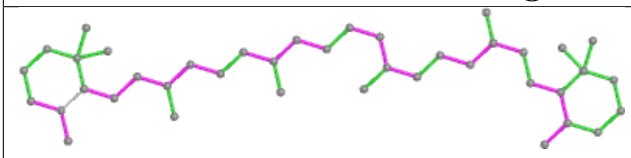


Torsions

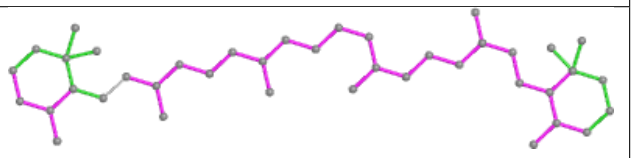


Rings

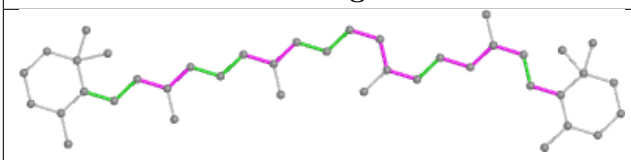
## Ligand WVN l 302



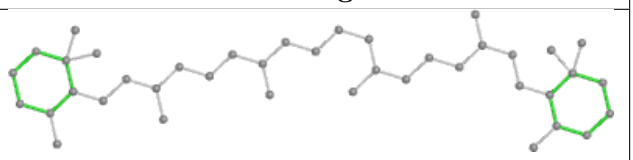
Bond lengths



Bond angles

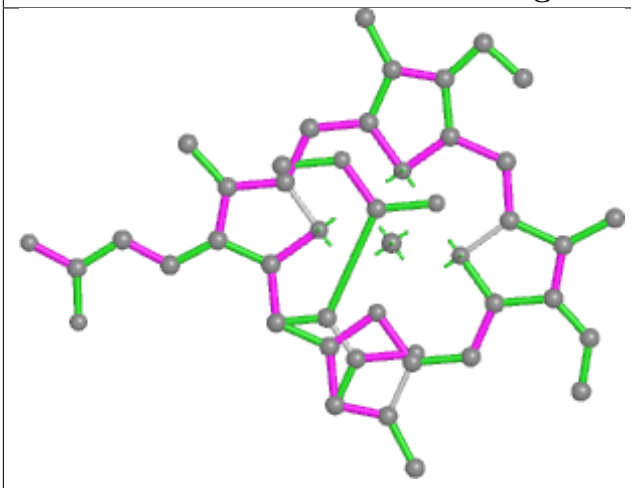


Torsions

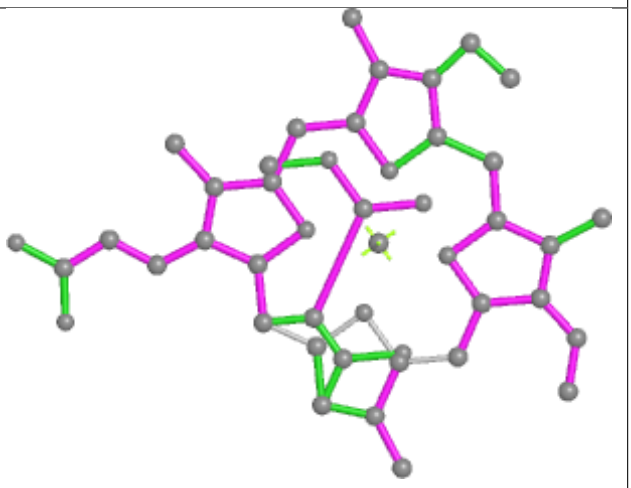


Rings

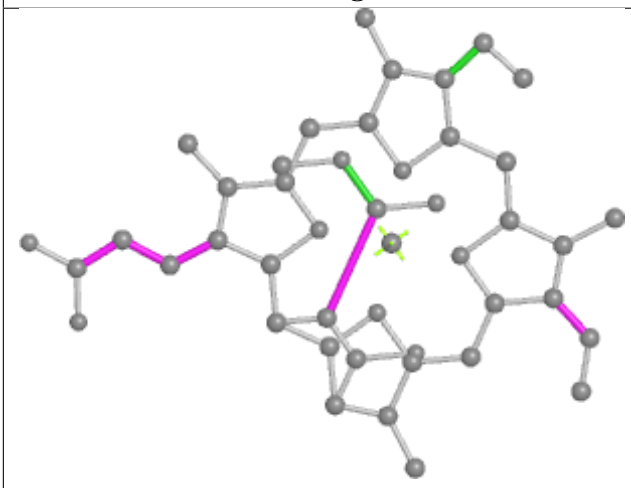
## Ligand KC2 f 611



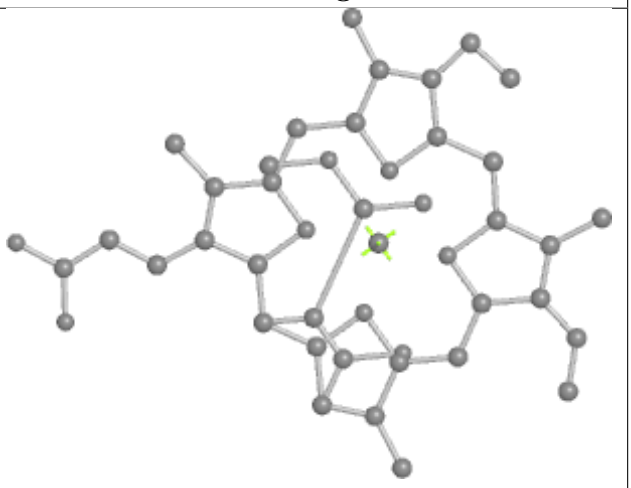
Bond lengths



Bond angles

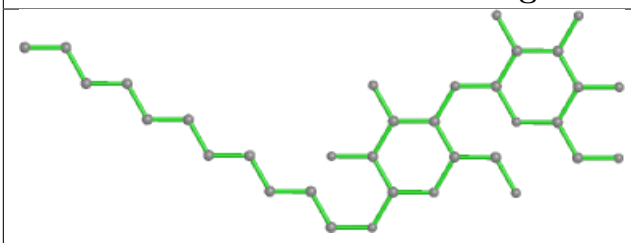


Torsions

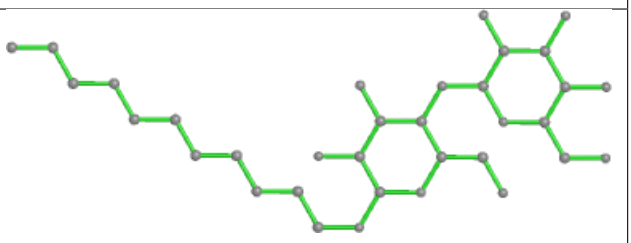


Rings

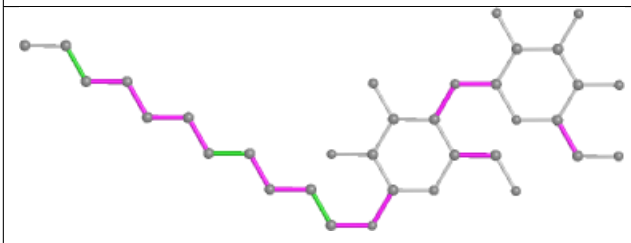
## Ligand LMU A 855



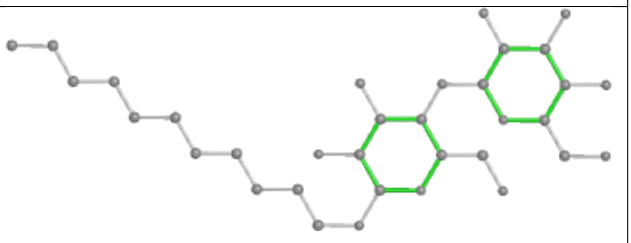
Bond lengths



Bond angles

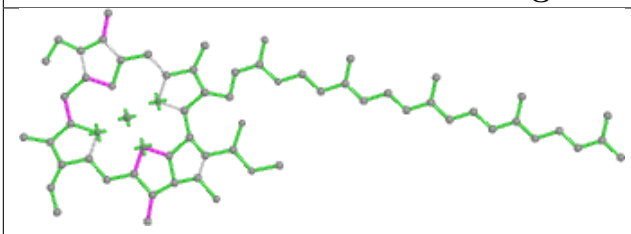


Torsions

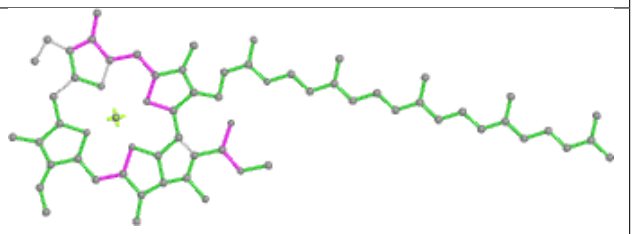


Rings

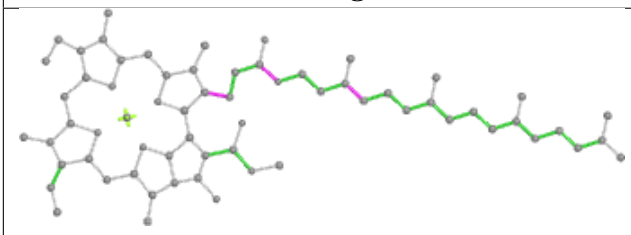
## Ligand CLA l 308



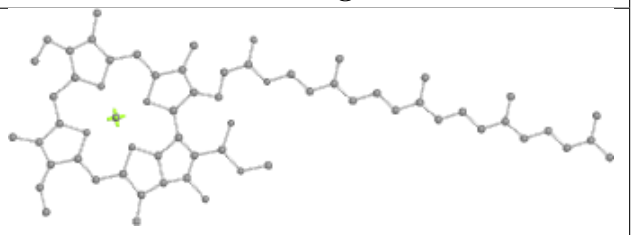
Bond lengths



Bond angles

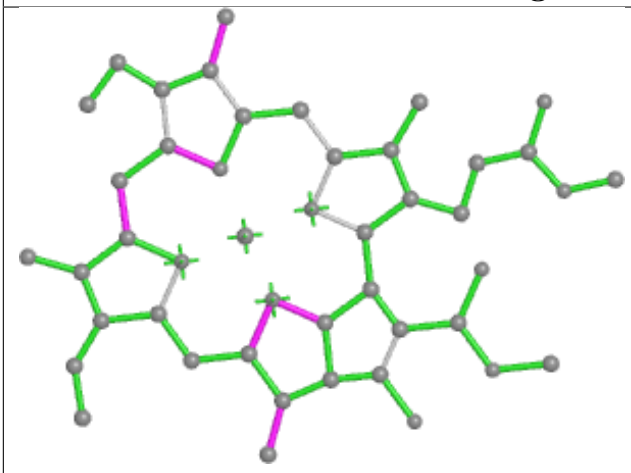


Torsions

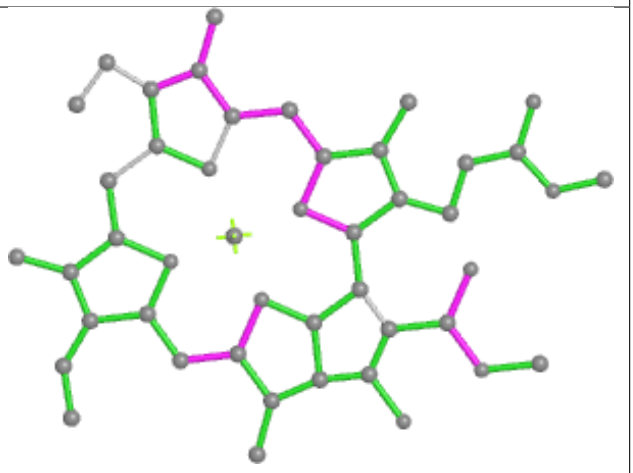


Rings

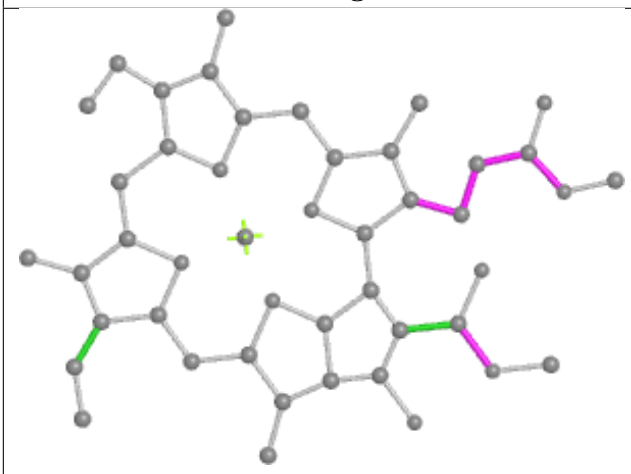
## Ligand CLA c 307



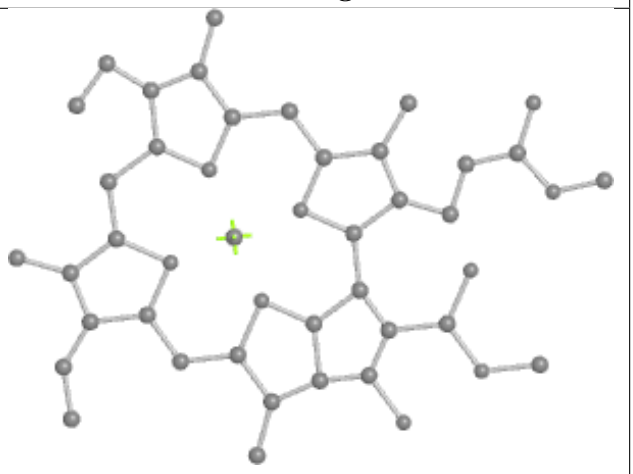
Bond lengths



Bond angles

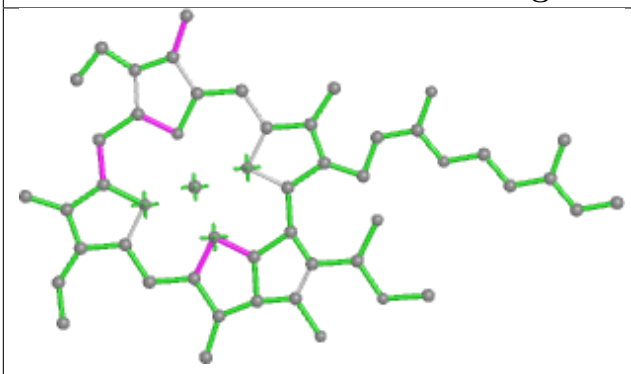


Torsions

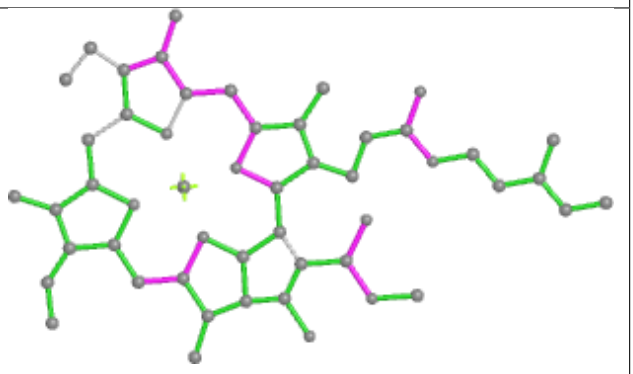


Rings

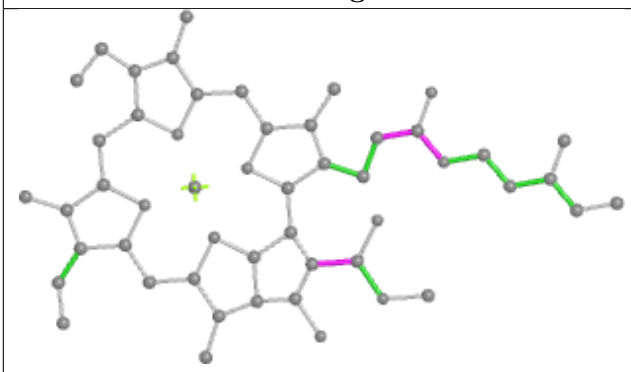
## Ligand CLA f 606



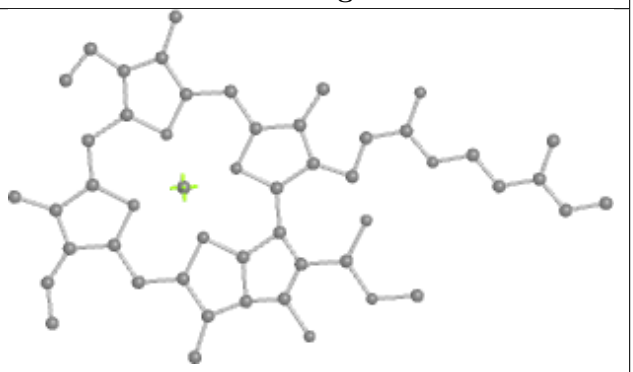
Bond lengths



Bond angles

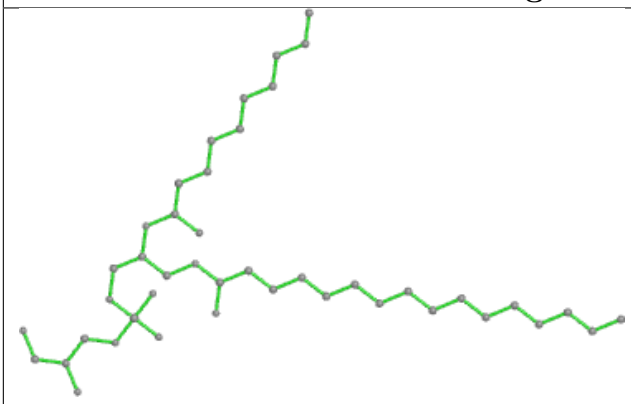


Torsions

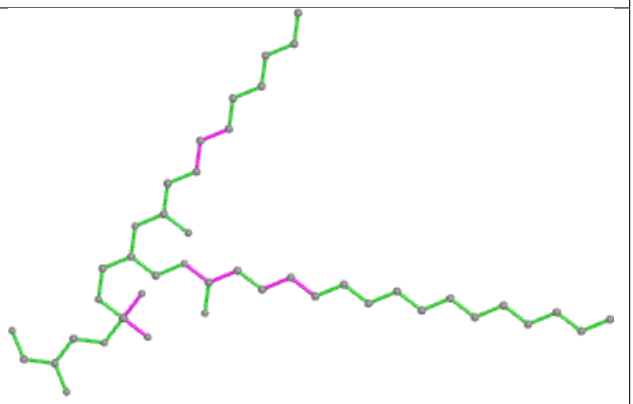


Rings

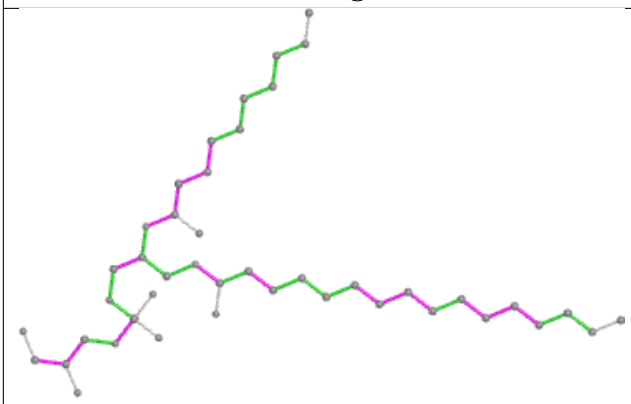
## Ligand LHG n 619



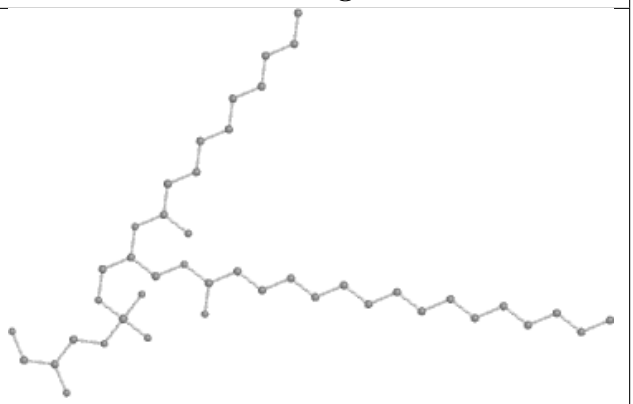
Bond lengths



Bond angles

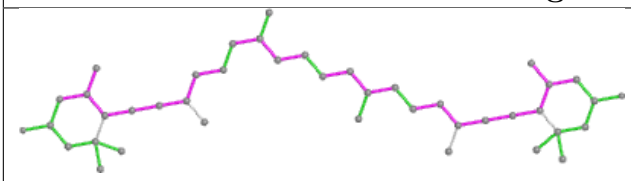


Torsions

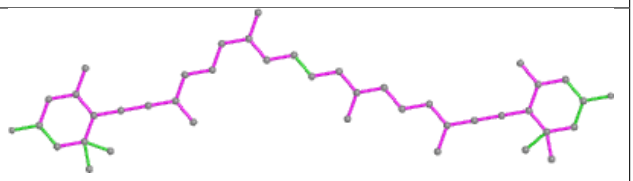


Rings

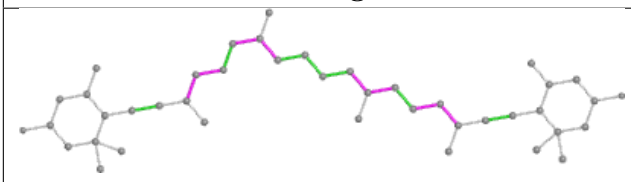
**Ligand II0 i 314**



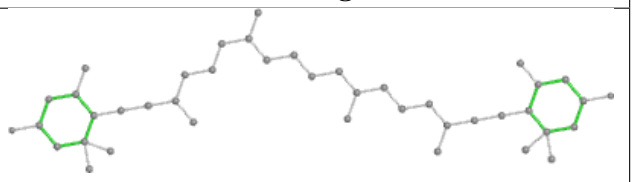
Bond lengths



Bond angles

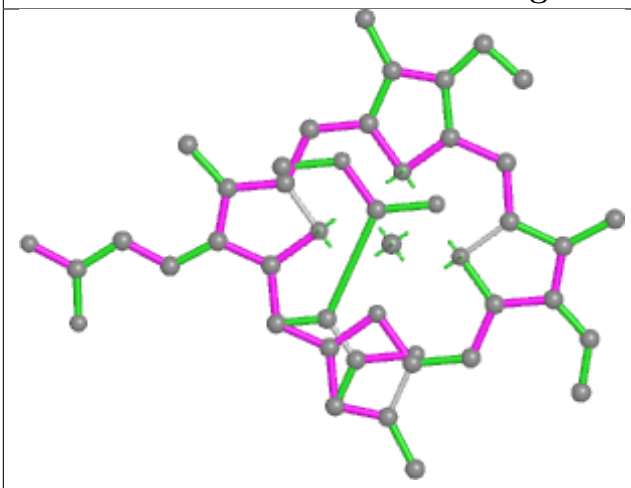


Torsions

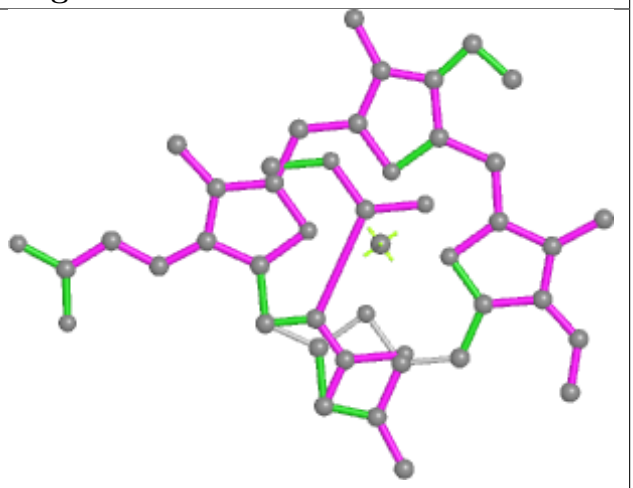


Rings

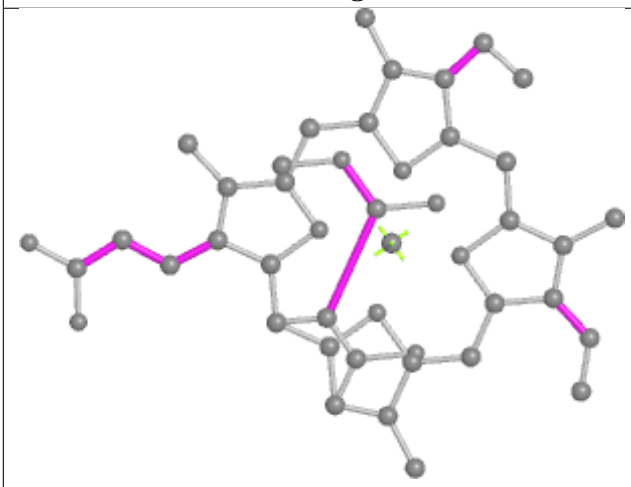
**Ligand KC2 g 314**



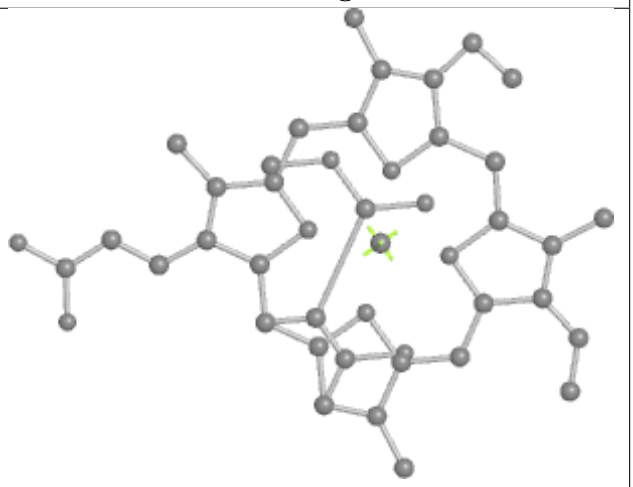
Bond lengths



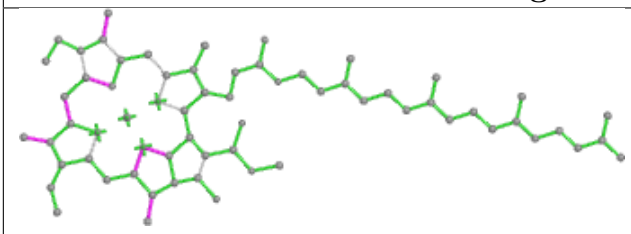
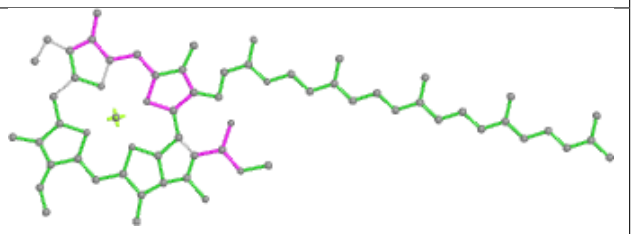
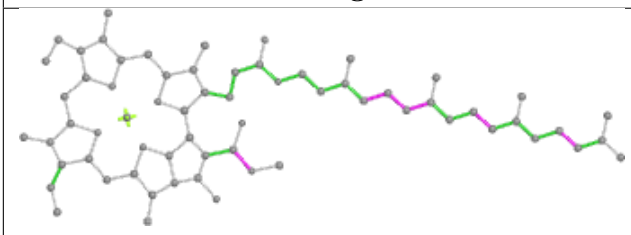
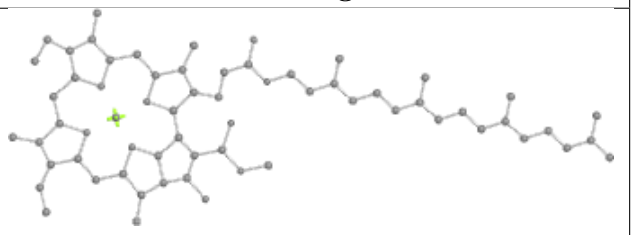
Bond angles

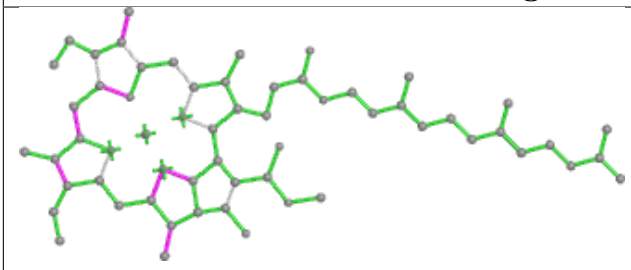
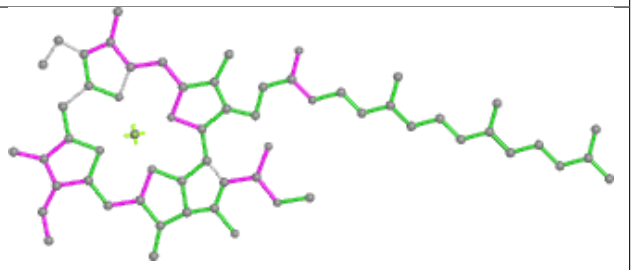
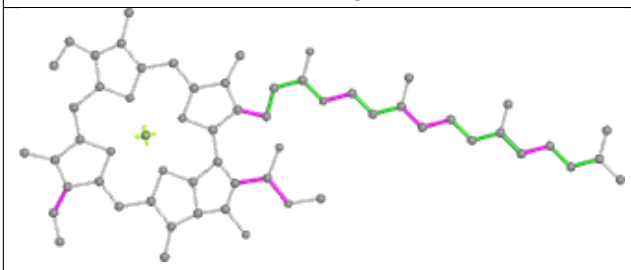
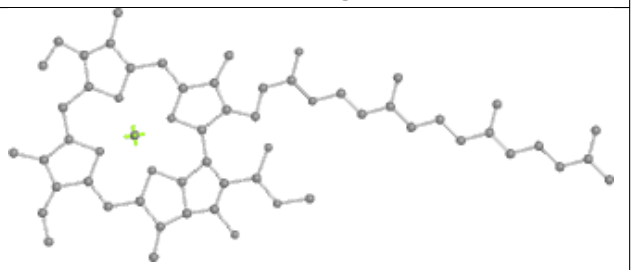


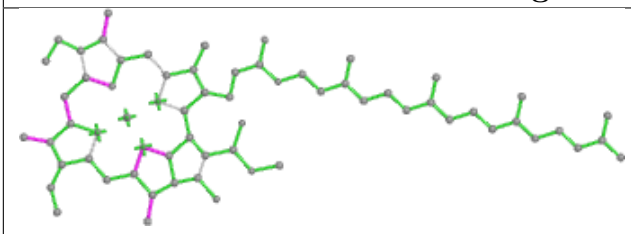
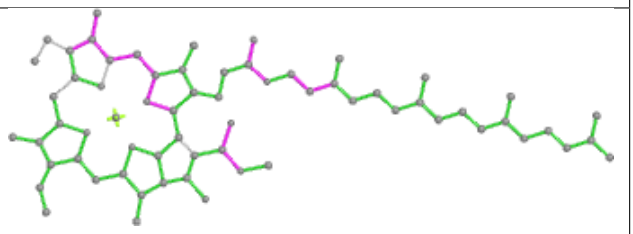
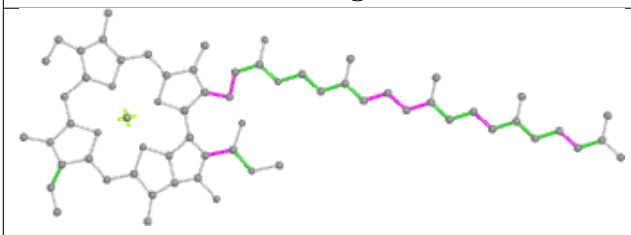
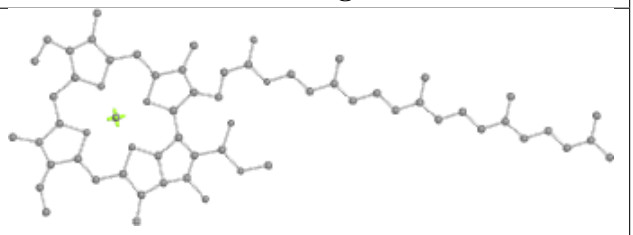
Torsions

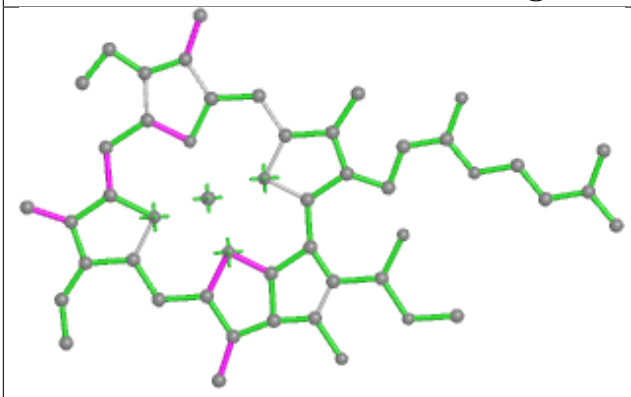
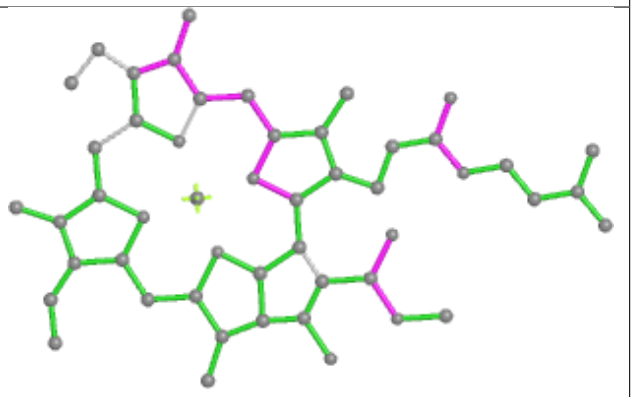
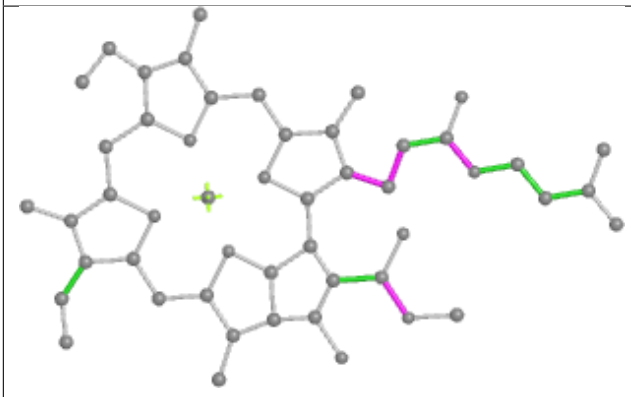
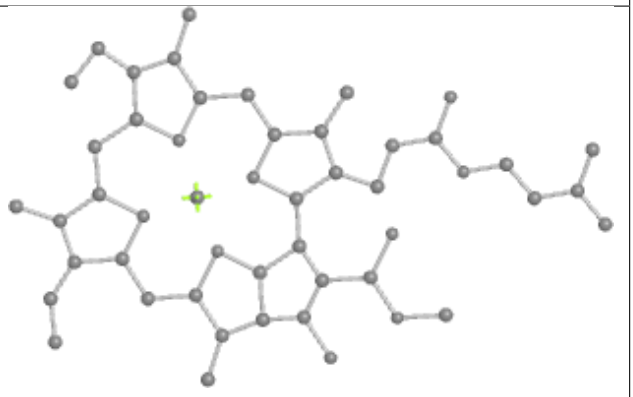


Rings

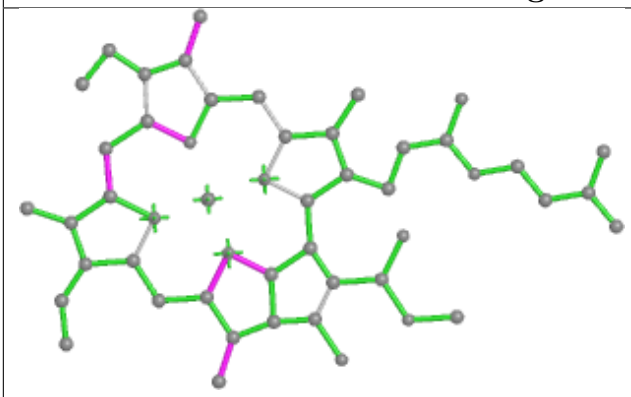
| Ligand CLA s 403 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA m 602 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

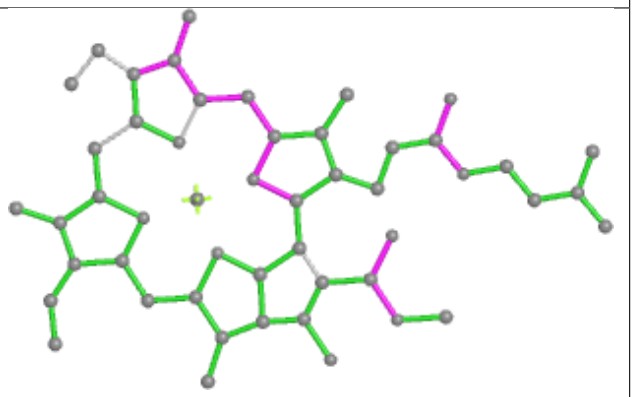
| Ligand CLA f 609 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

| Ligand CLA h 302 | |
|---|---|
|  Bond lengths |  Bond angles |
|  Torsions |  Rings |

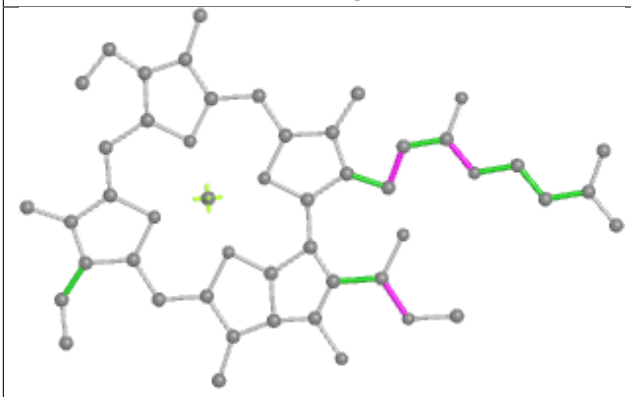
**Ligand CLA n 602**



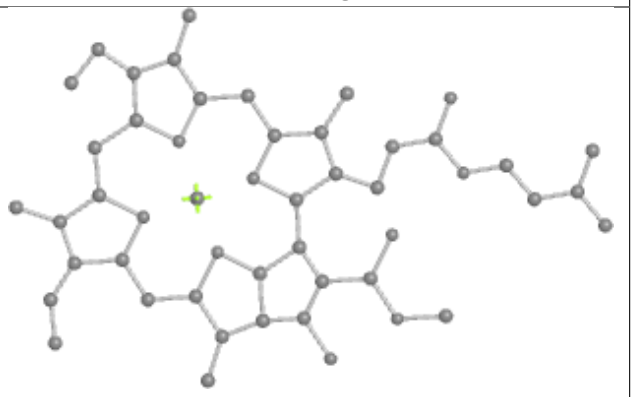
**Bond lengths**



**Bond angles**

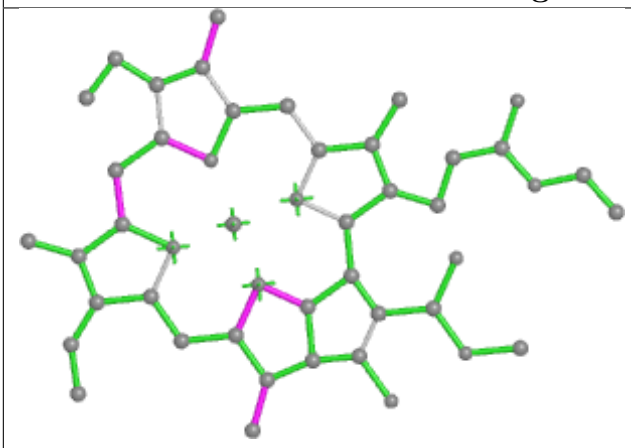


**Torsions**

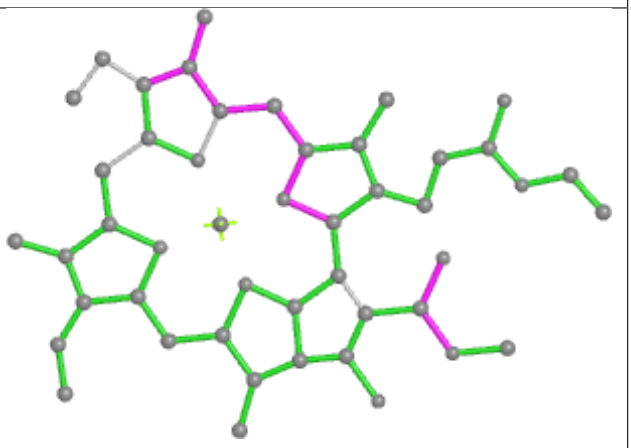


**Rings**

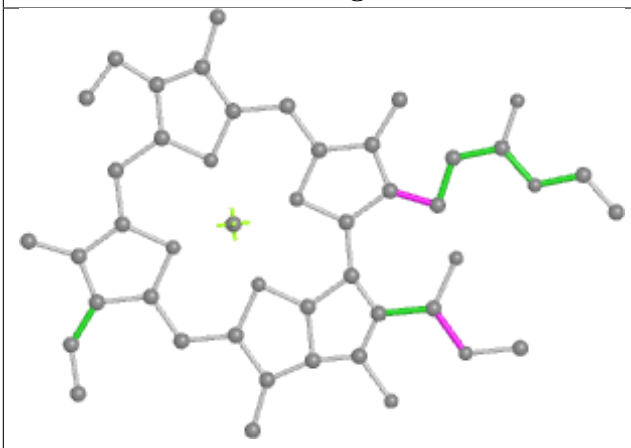
## Ligand CLA f 601



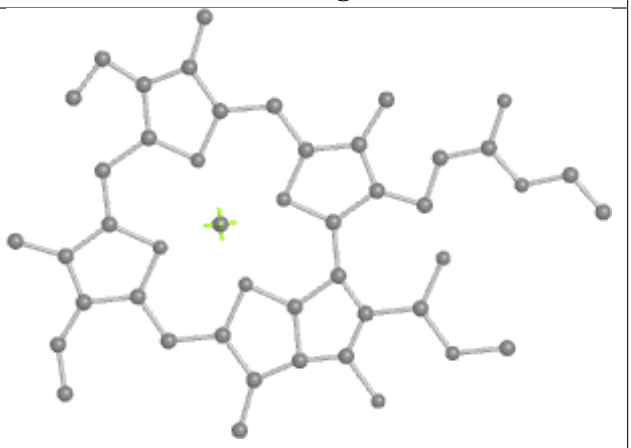
Bond lengths



Bond angles

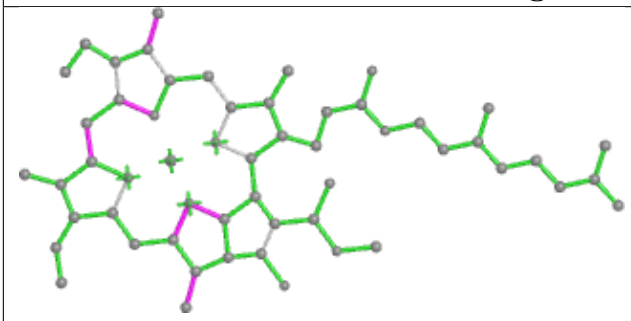


Torsions

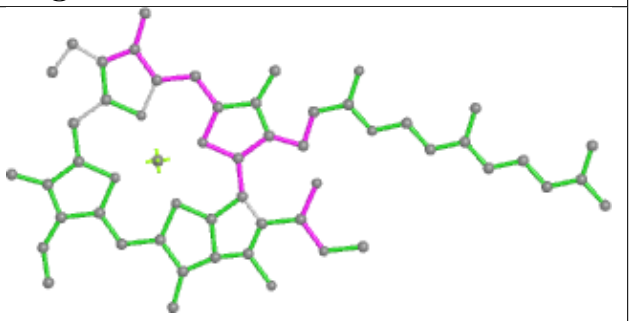


Rings

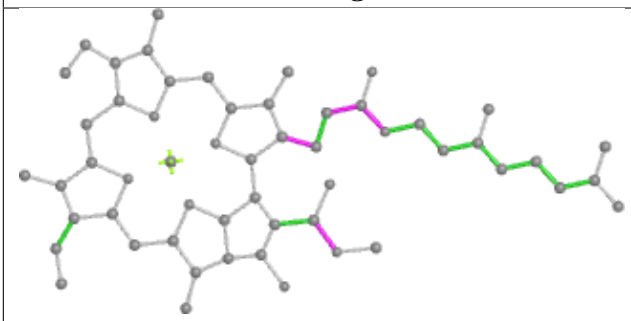
## Ligand CLA g 323



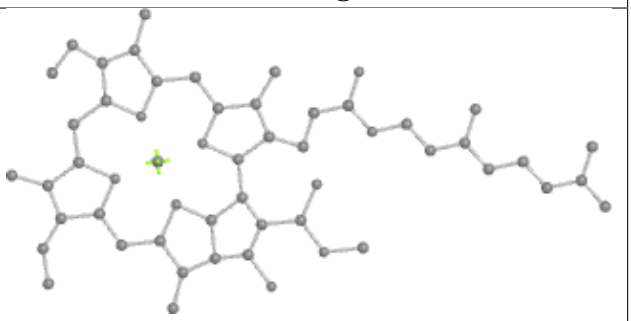
Bond lengths



Bond angles

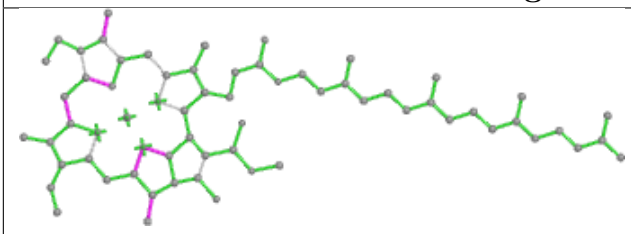


Torsions

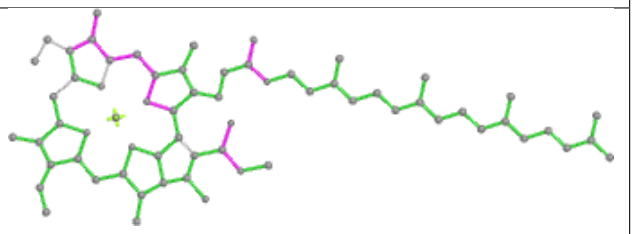


Rings

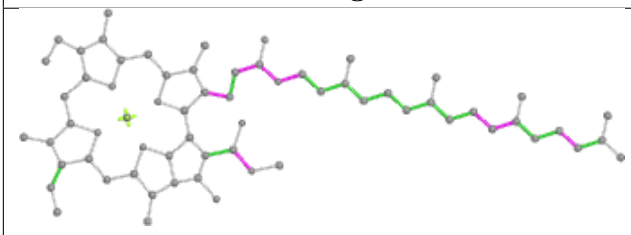
## Ligand CLA B 805



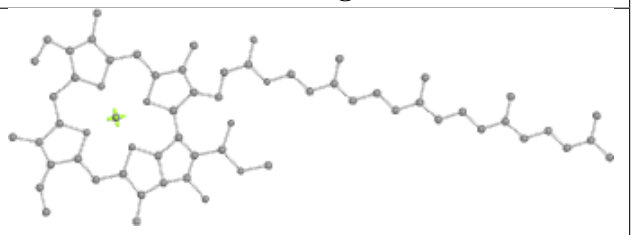
Bond lengths



Bond angles

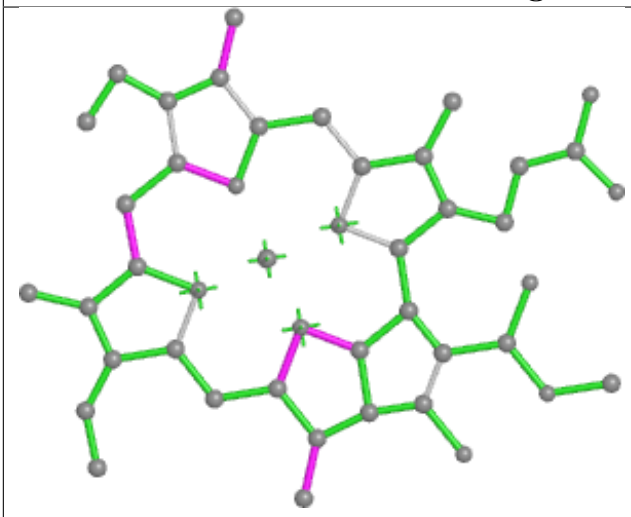


Torsions

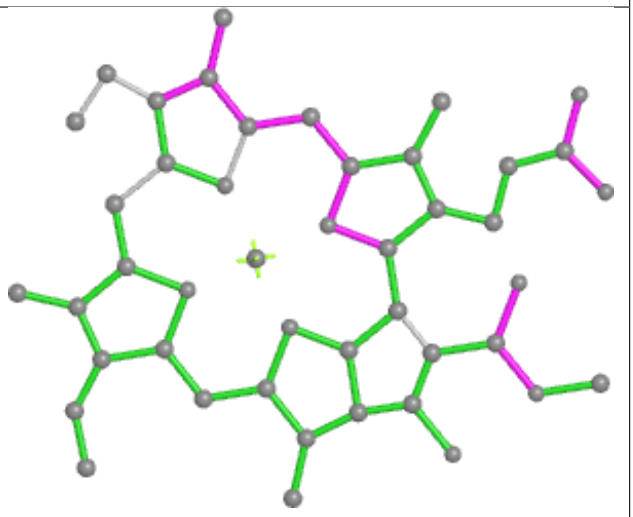


Rings

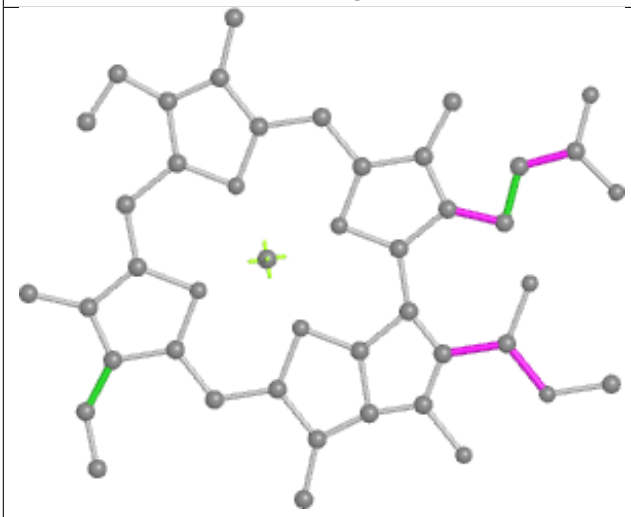
## Ligand CLA d 304



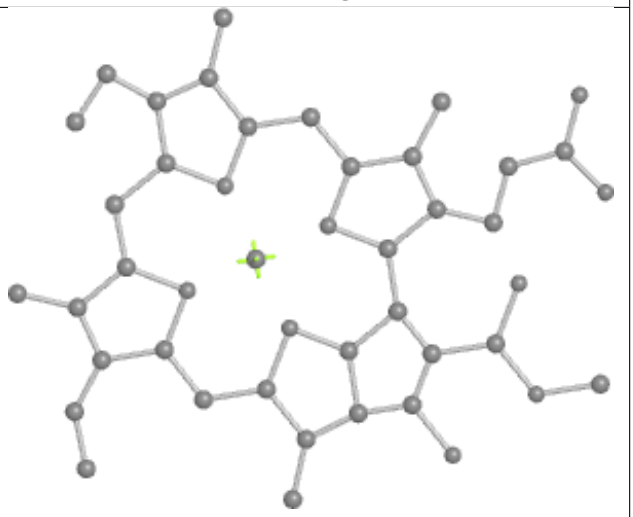
Bond lengths



Bond angles

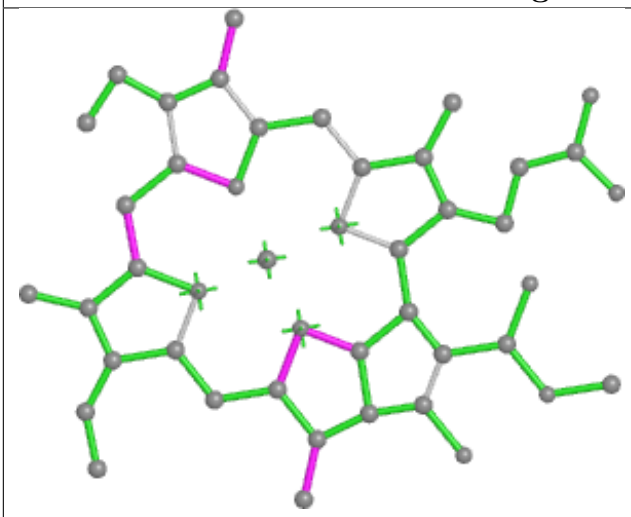


Torsions

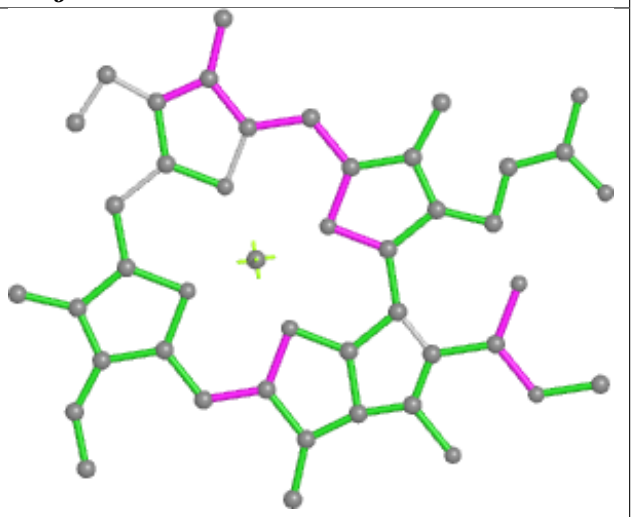


Rings

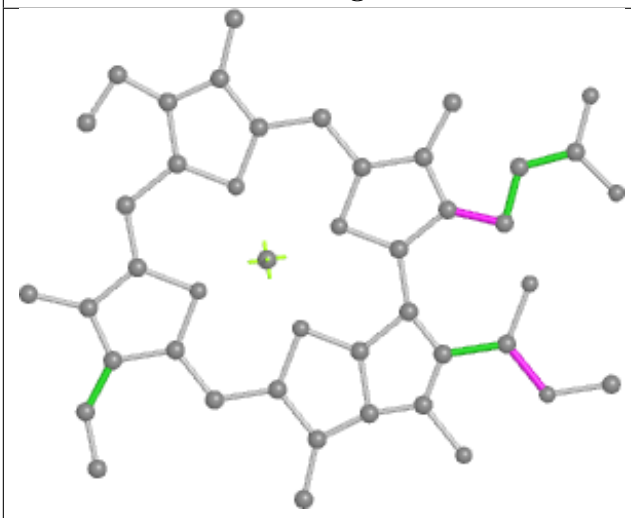
**Ligand CLA j 309**



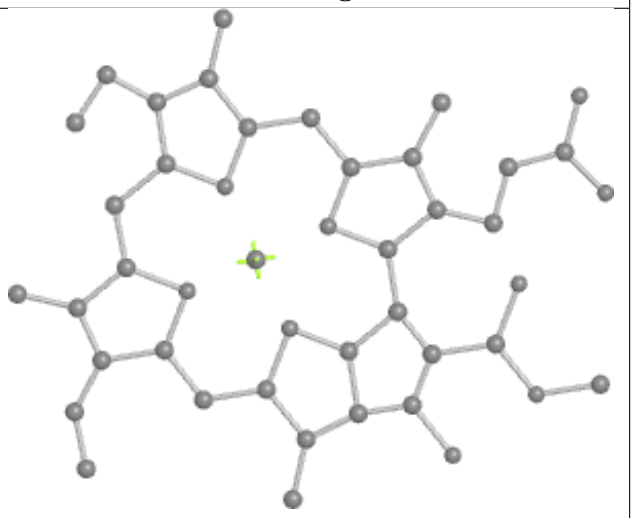
**Bond lengths**



**Bond angles**

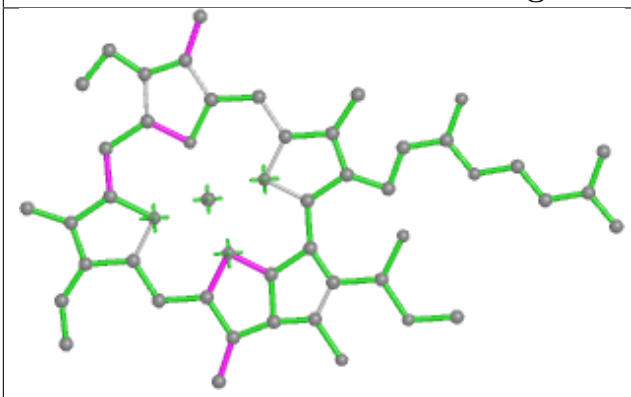


**Torsions**

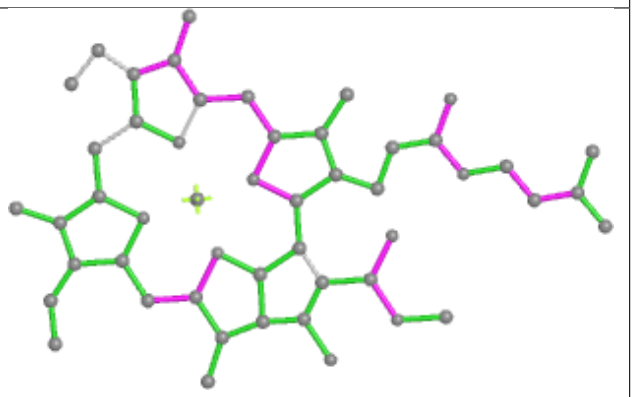


**Rings**

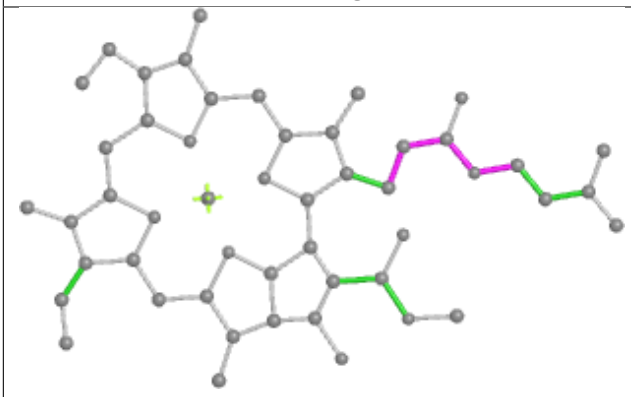
**Ligand CLA h 303**



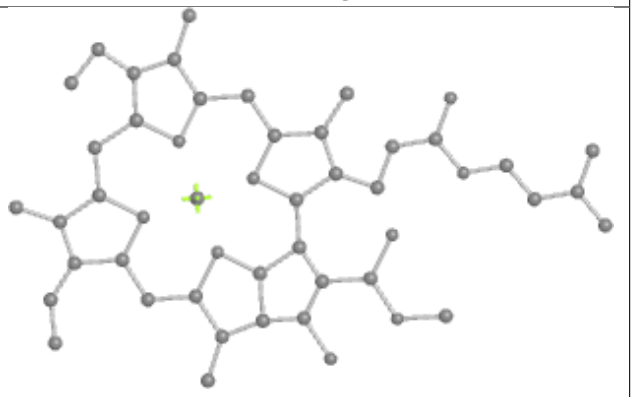
**Bond lengths**



**Bond angles**

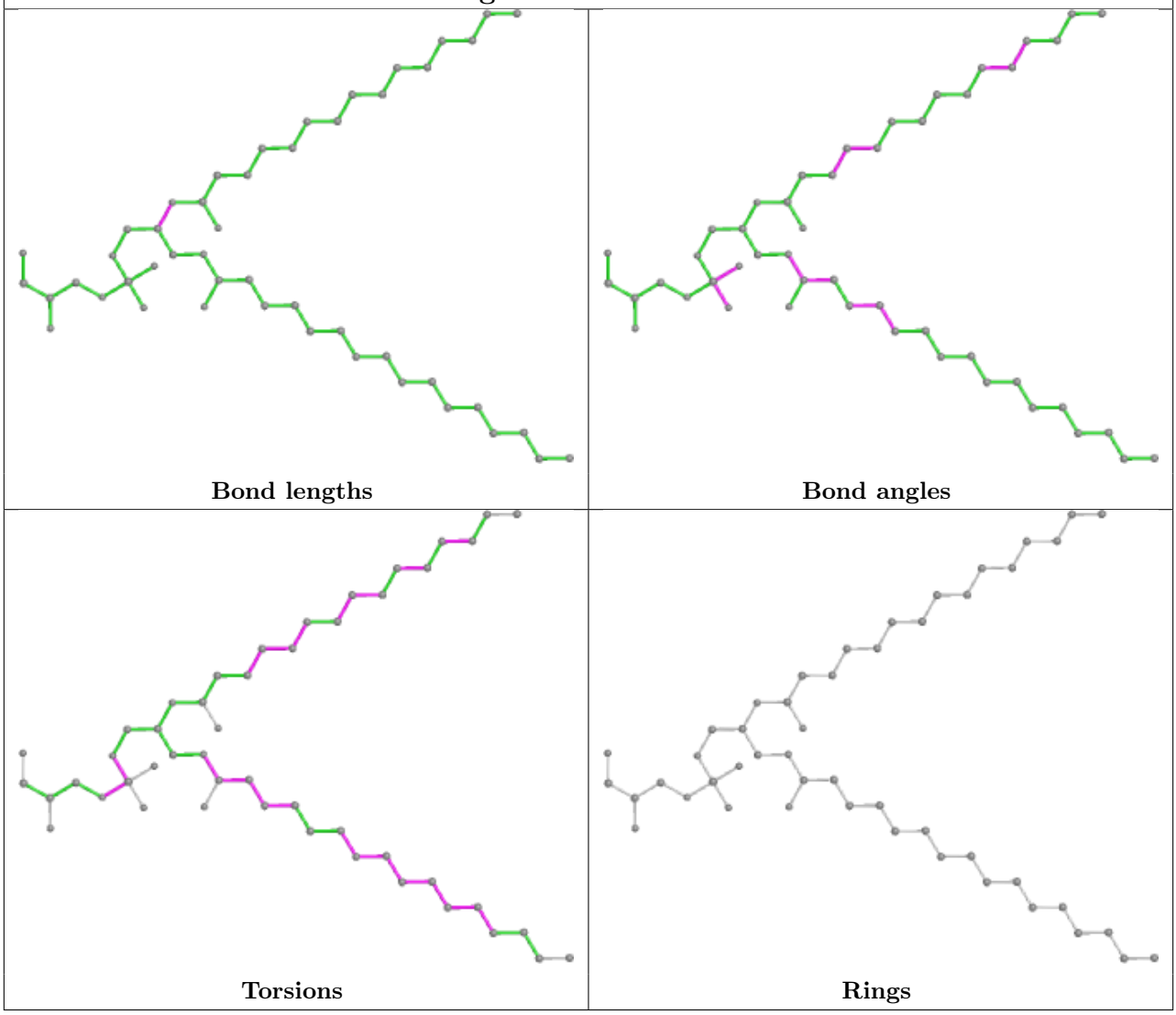


**Torsions**

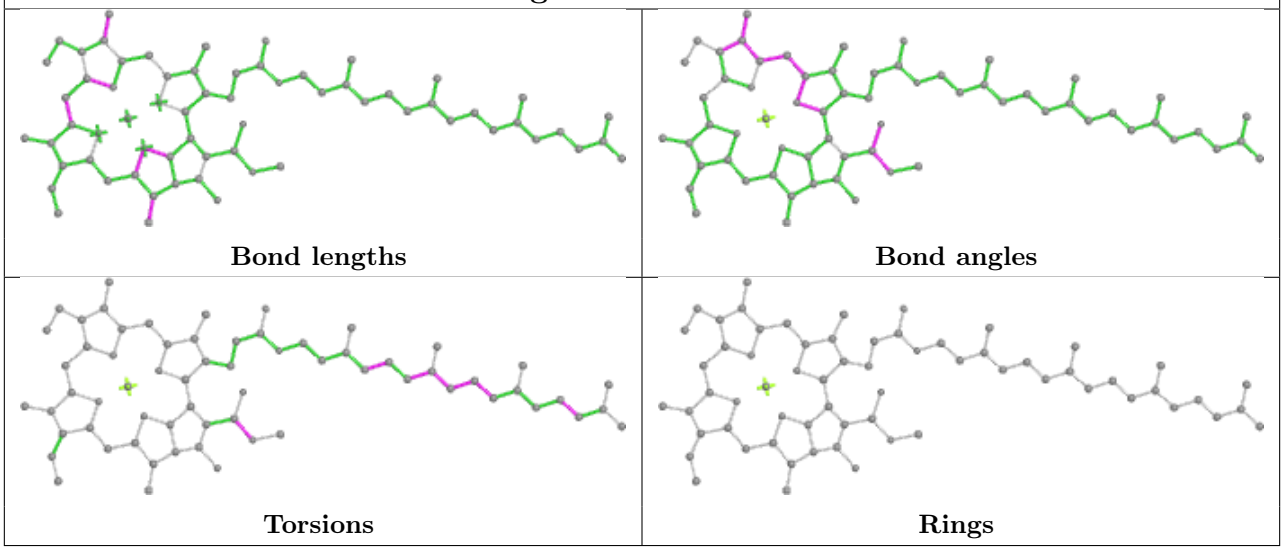


**Rings**

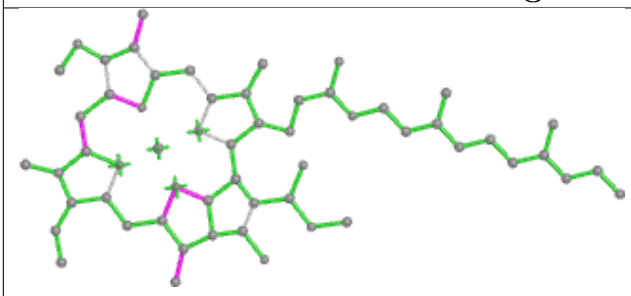
## Ligand LHG A 842



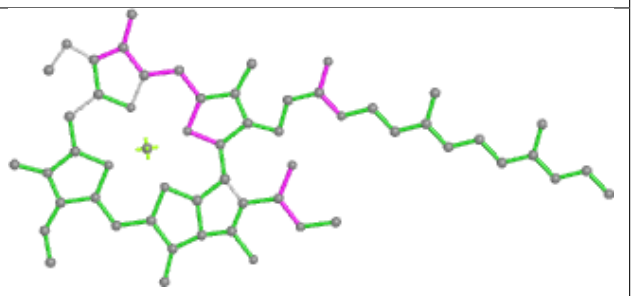

## Ligand CLA c 312



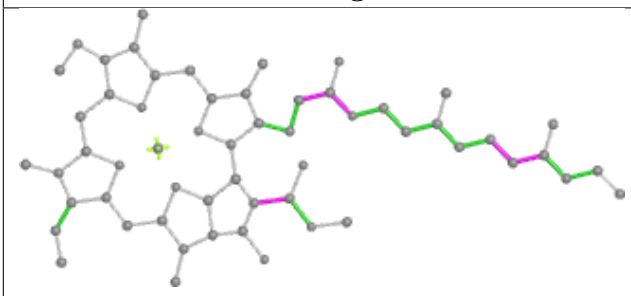
## Ligand CLA B 839



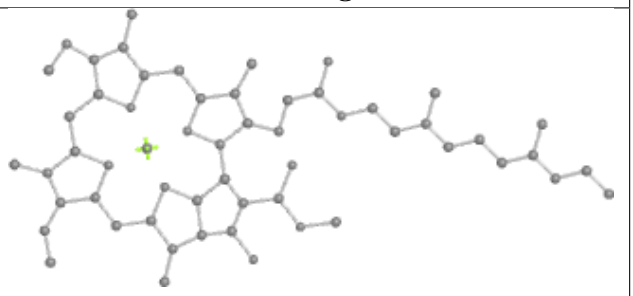
Bond lengths



Bond angles

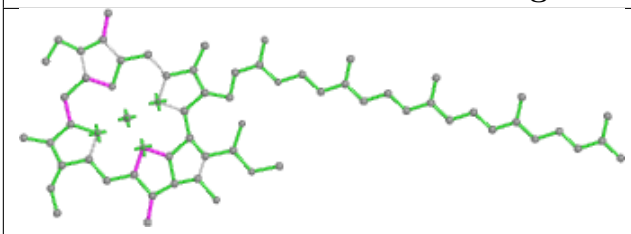


Torsions

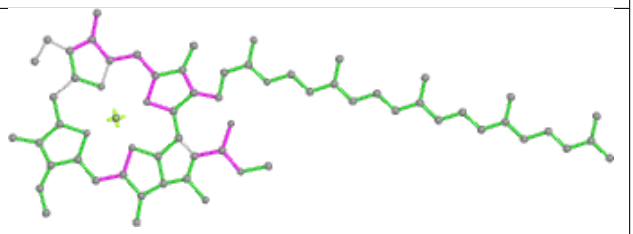


Rings

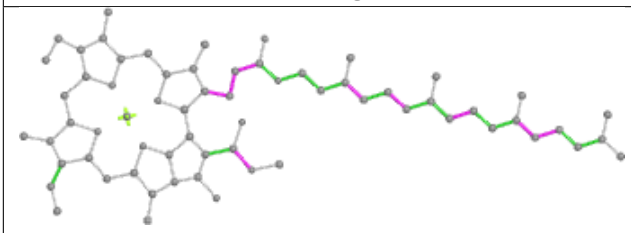
## Ligand CLA s 406



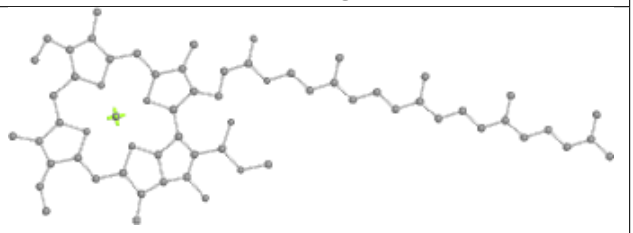
Bond lengths



Bond angles

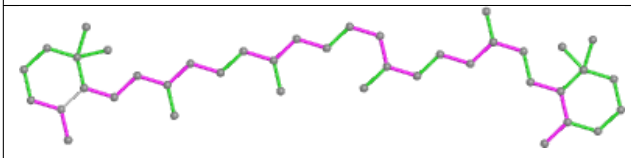


Torsions

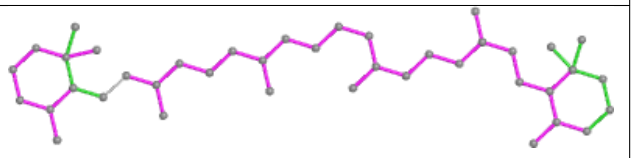


Rings

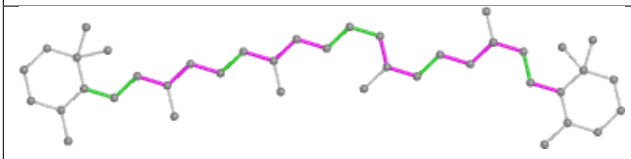
## Ligand WVN A 854



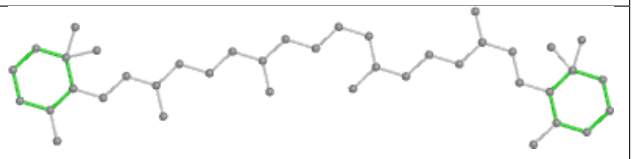
Bond lengths



Bond angles

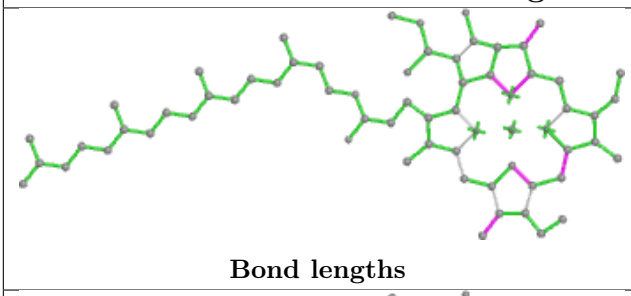


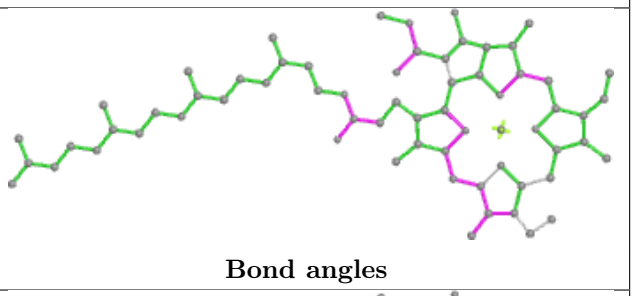
Torsions

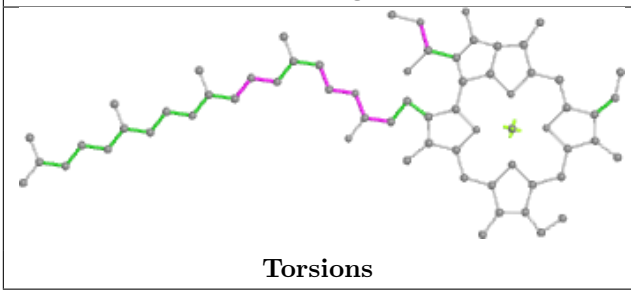


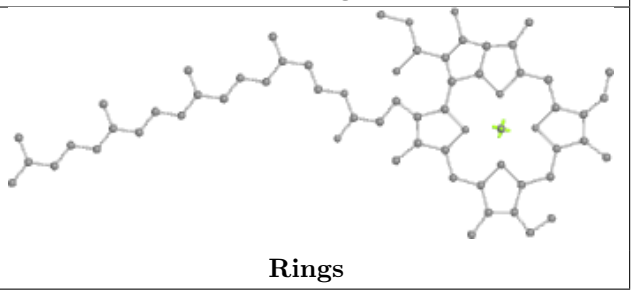
Rings

## Ligand CLA h 301

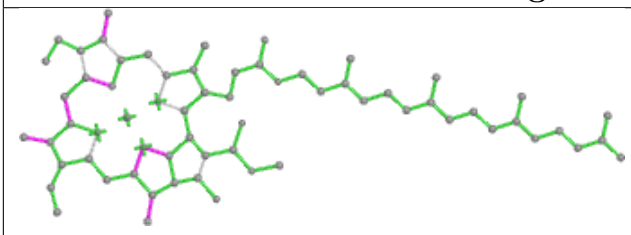

Bond lengths

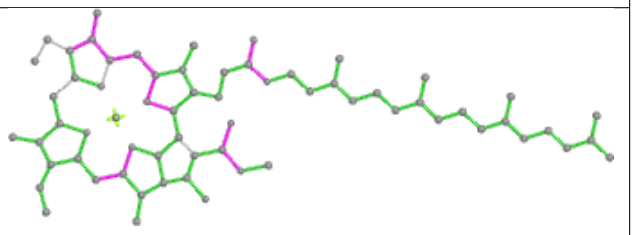

Bond angles

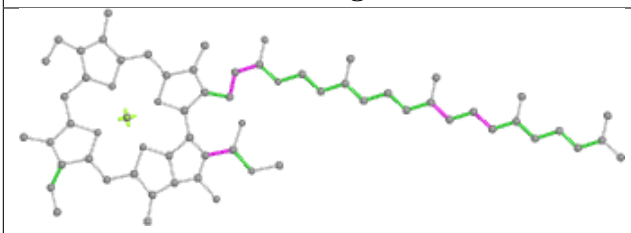

Torsions

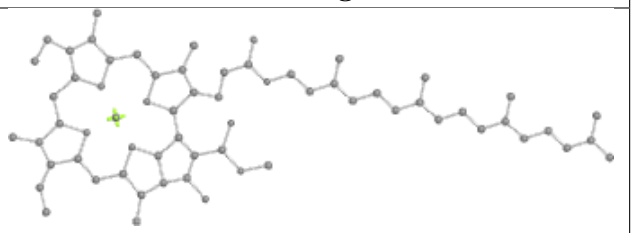

Rings

## Ligand CLA a 305

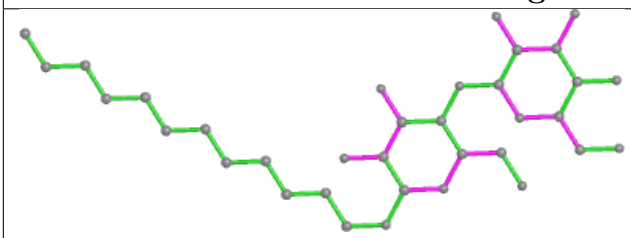

Bond lengths

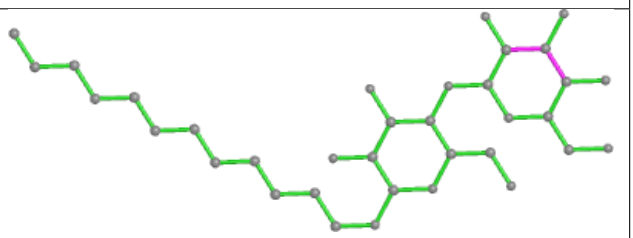

Bond angles

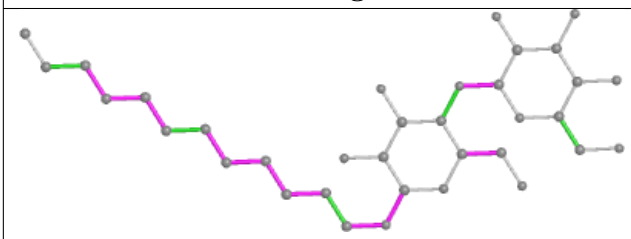

Torsions

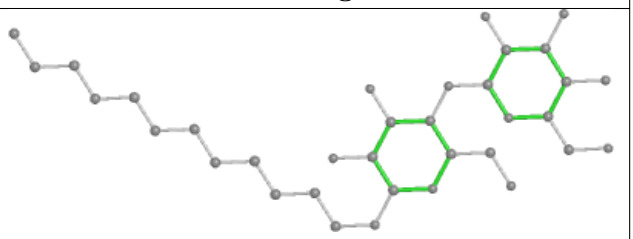

Rings

## Ligand LMU i 301

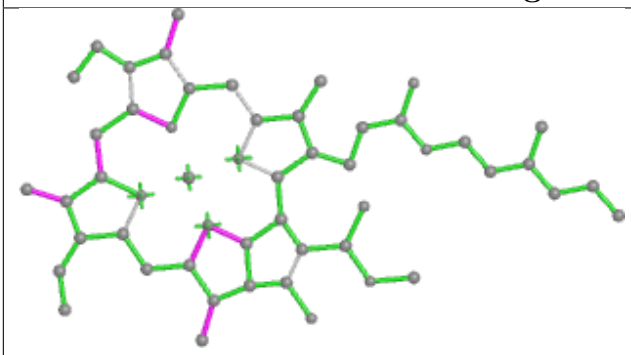

Bond lengths


Bond angles

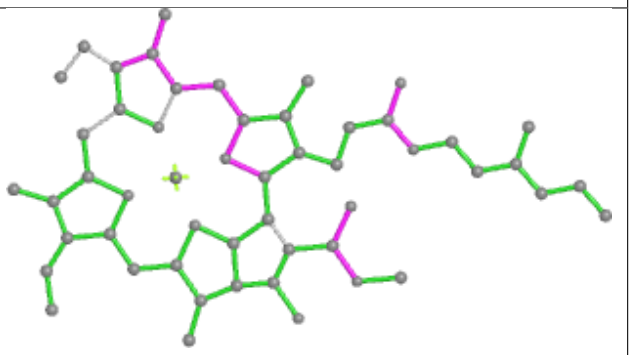

Torsions


Rings

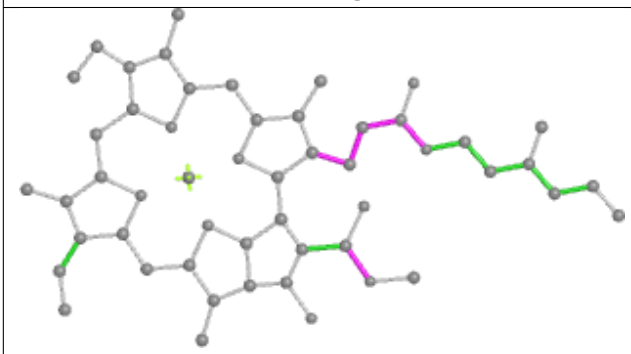
**Ligand CLA O 201**



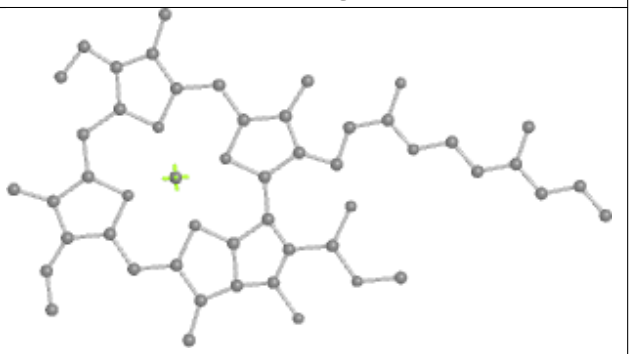
**Bond lengths**



**Bond angles**

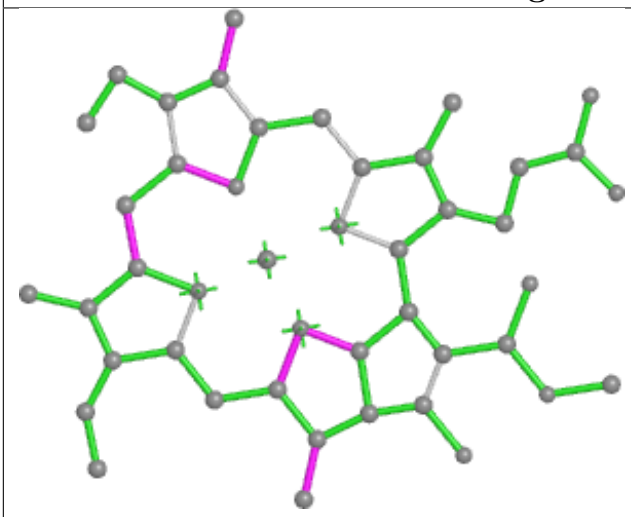


**Torsions**

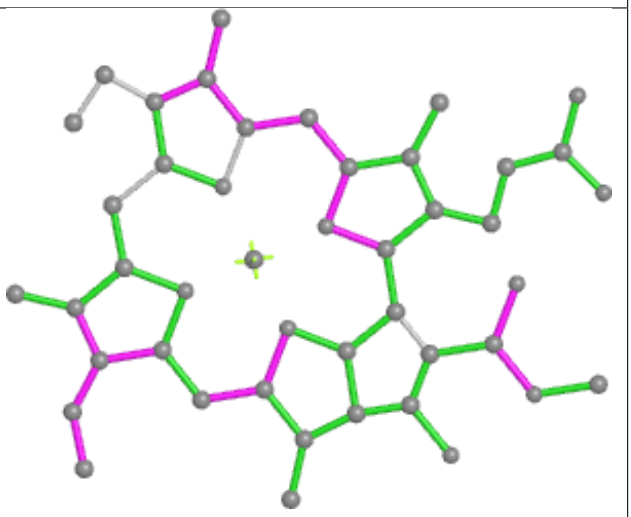


**Rings**

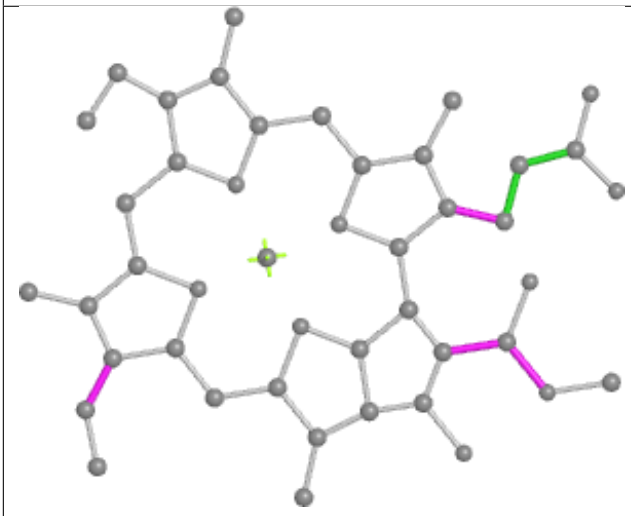
**Ligand CLA a 306**



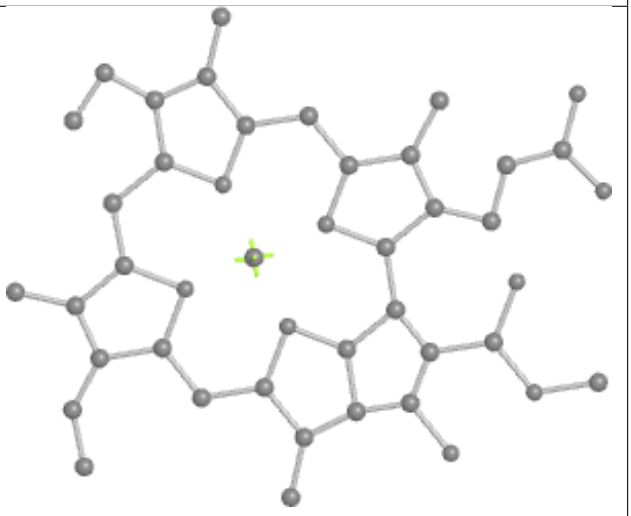
**Bond lengths**



**Bond angles**

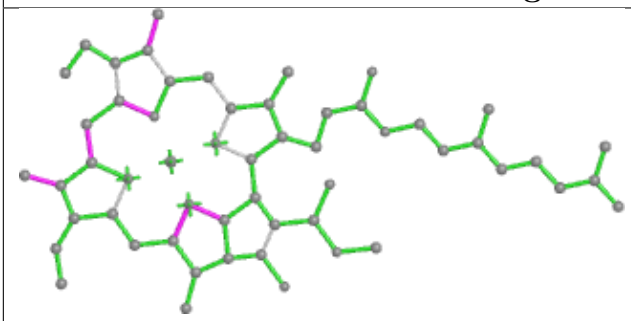


**Torsions**

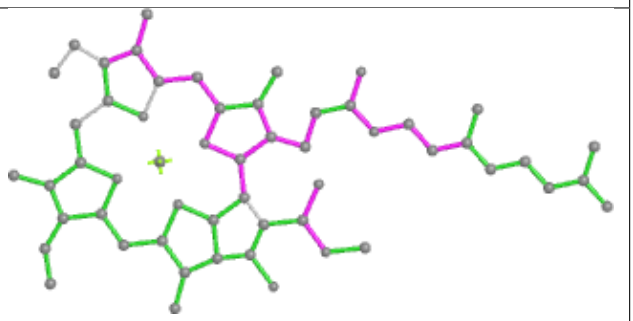


**Rings**

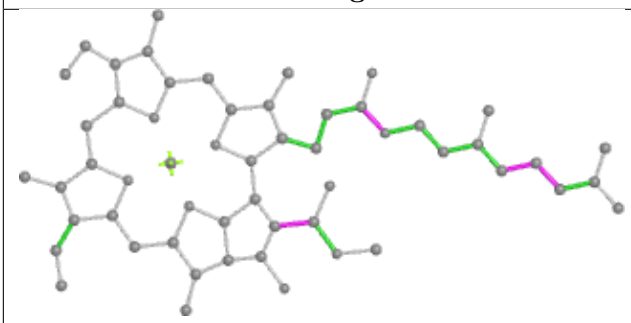
## Ligand CLA R 203



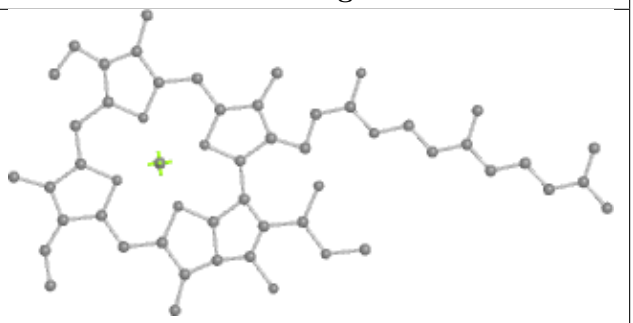
Bond lengths



Bond angles

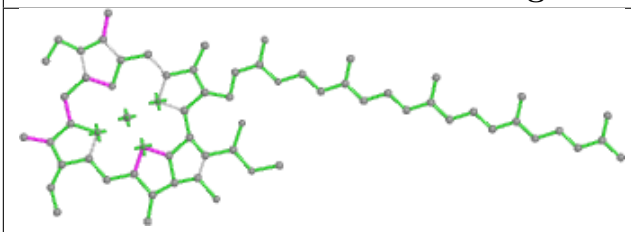


Torsions

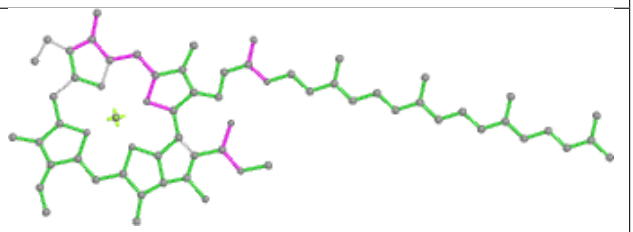


Rings

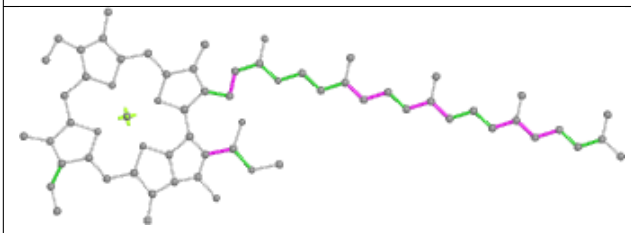
## Ligand CLA b 308



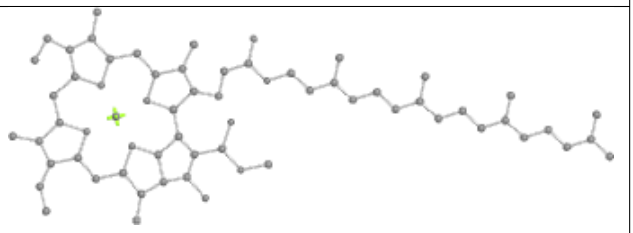
Bond lengths



Bond angles

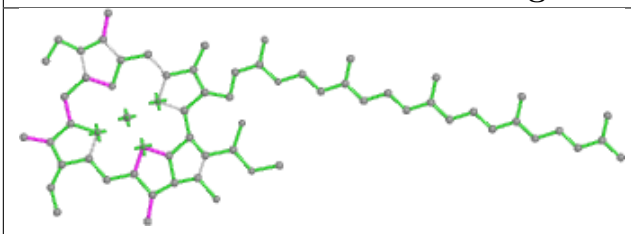


Torsions

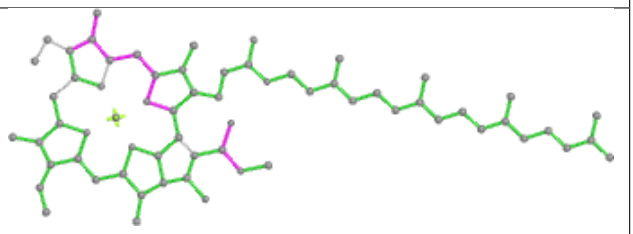


Rings

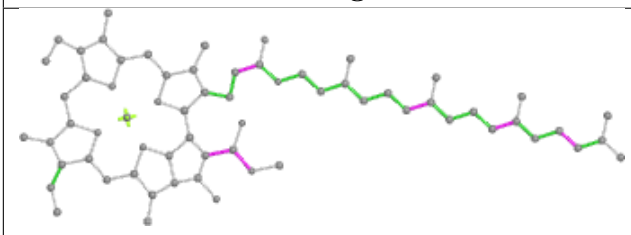
## Ligand CLA a 310



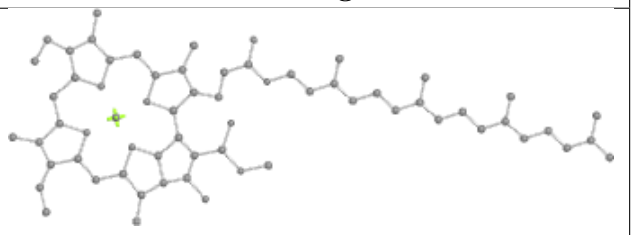
Bond lengths



Bond angles

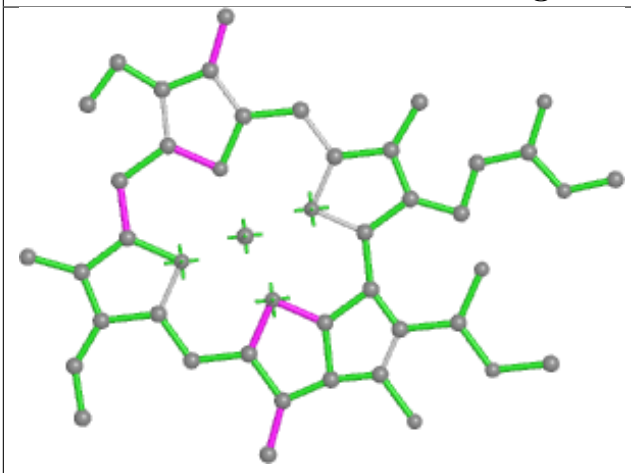


Torsions

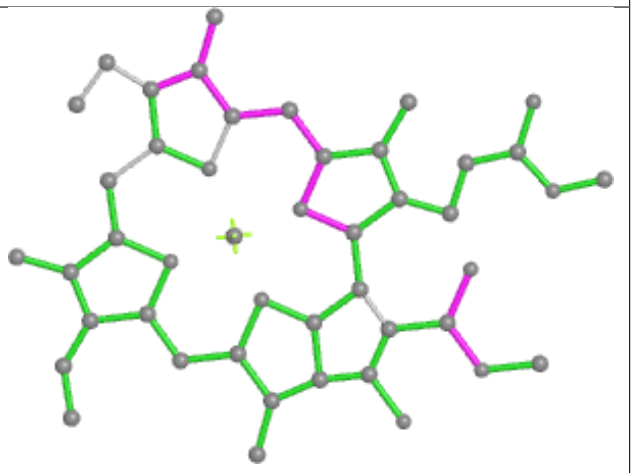


Rings

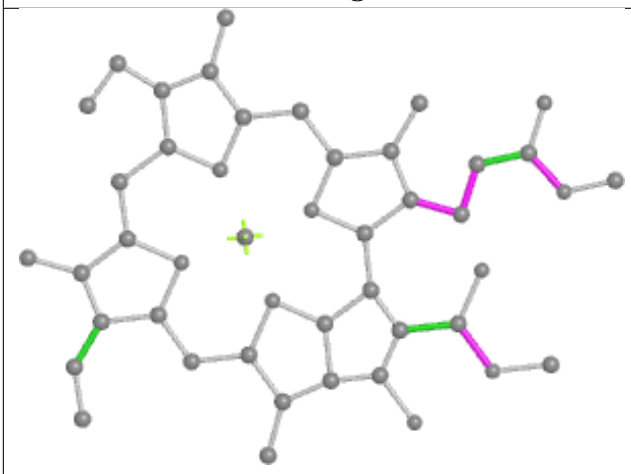
## Ligand CLA i 309



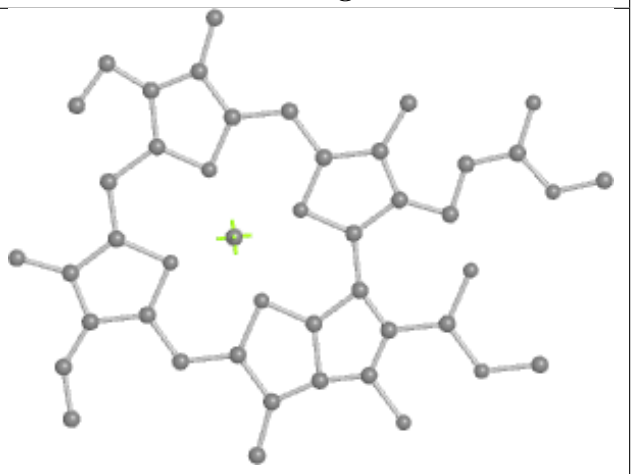
Bond lengths



Bond angles

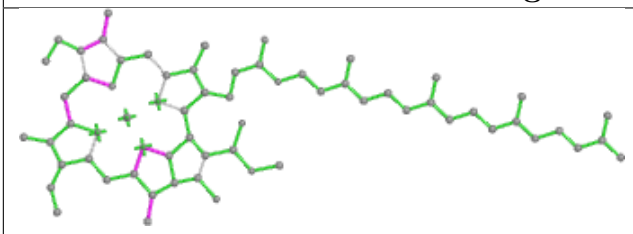


Torsions

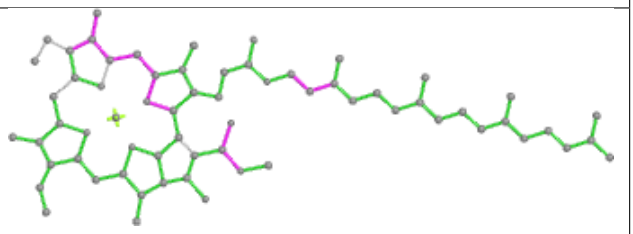


Rings

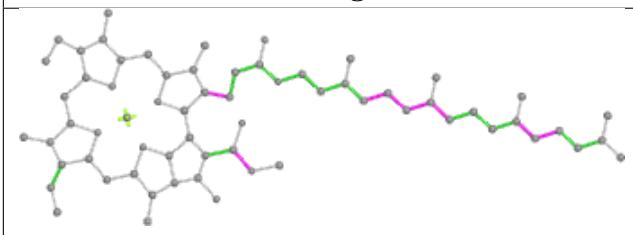
## Ligand CLA A 831



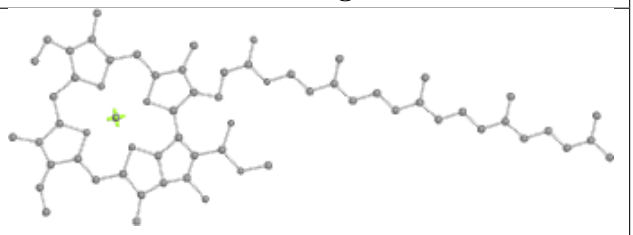
Bond lengths



Bond angles

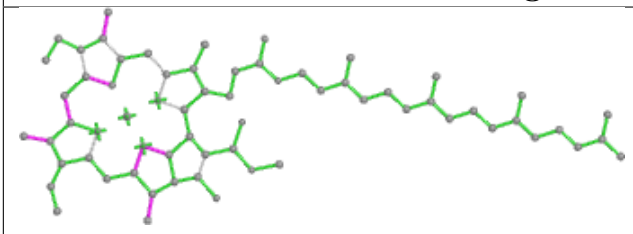


Torsions

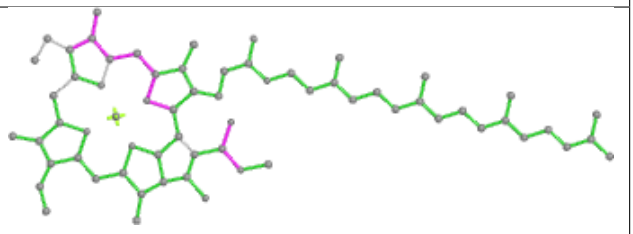


Rings

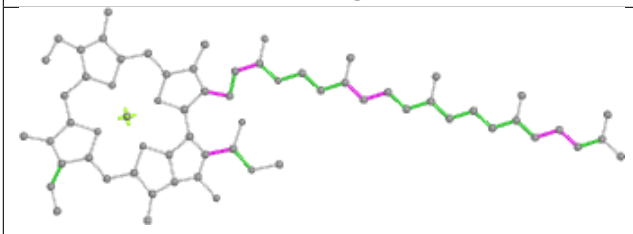
## Ligand CLA A 812



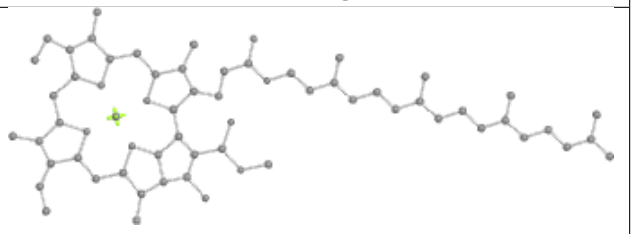
Bond lengths



Bond angles

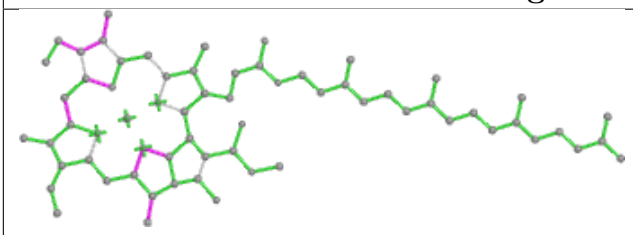


Torsions

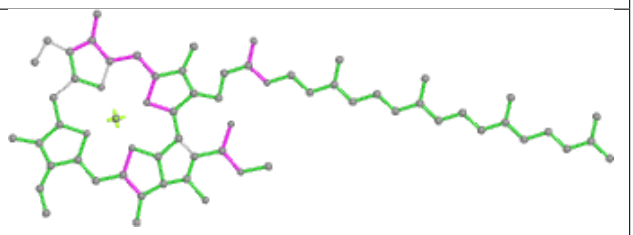


Rings

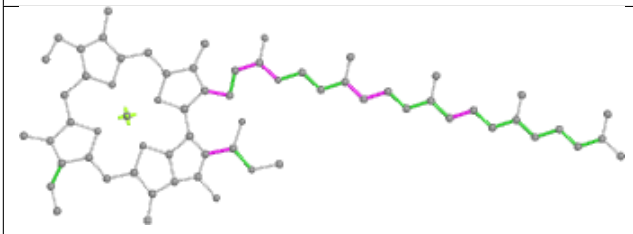
## Ligand CLA n 607



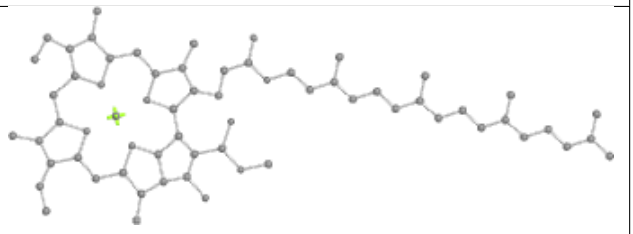
Bond lengths



Bond angles

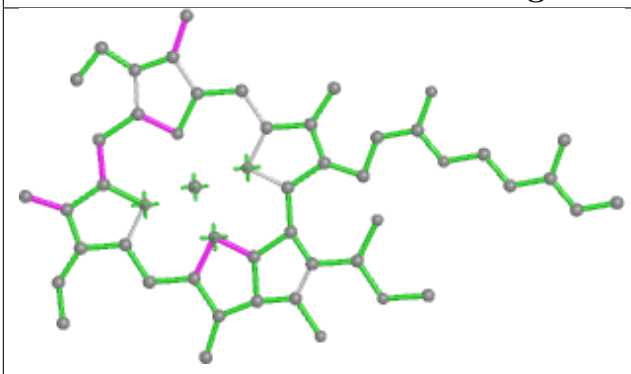


Torsions

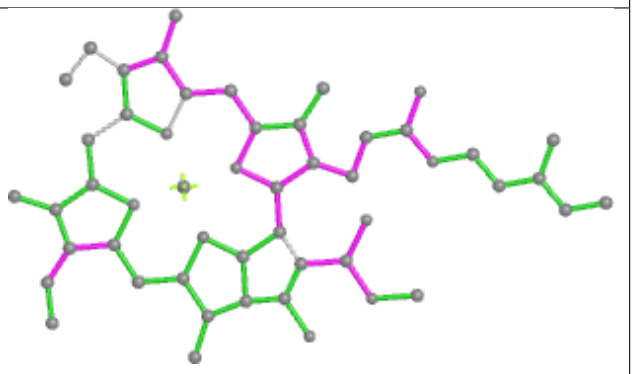


Rings

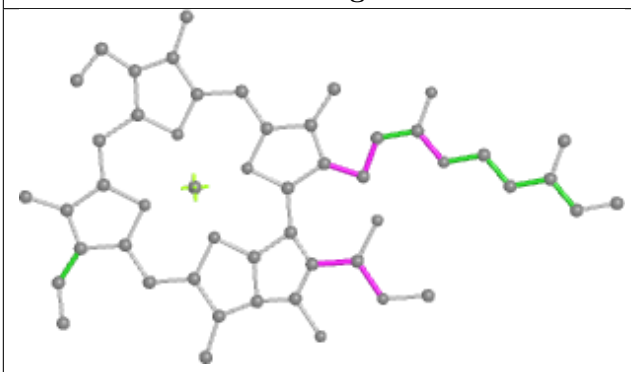
## Ligand CLA d 313



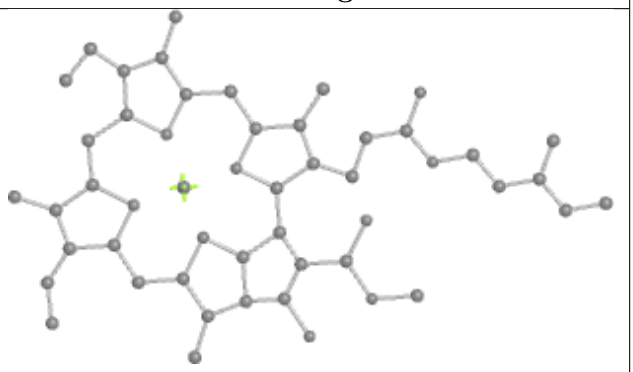
Bond lengths



Bond angles

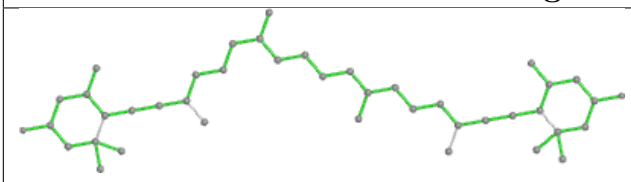


Torsions

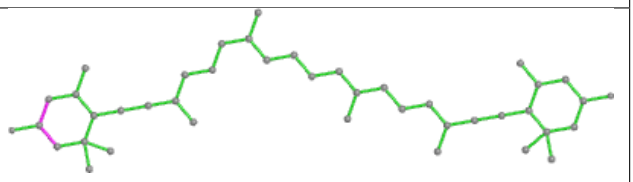


Rings

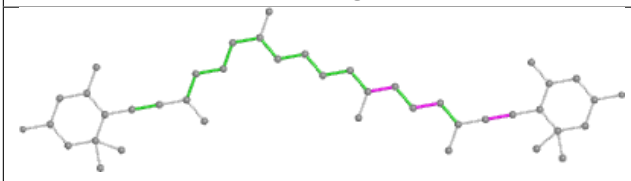
## Ligand II0 c 314



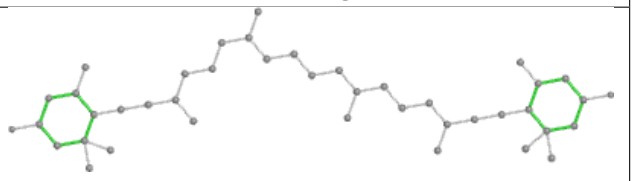
Bond lengths



Bond angles

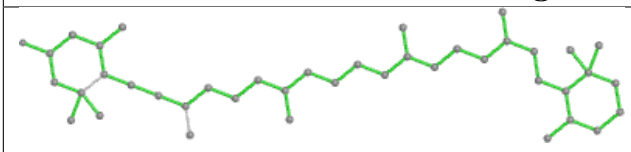


Torsions

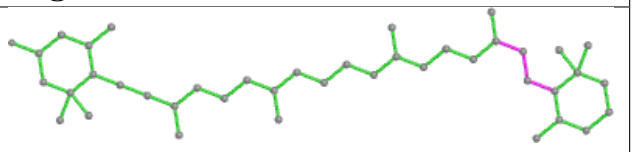


Rings

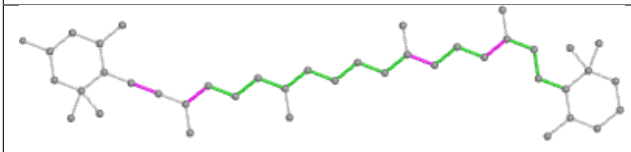
## Ligand IHT g 324



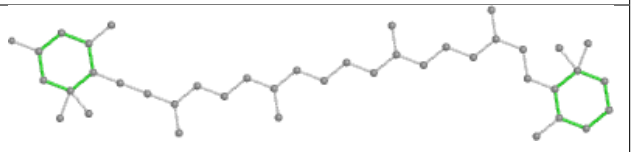
Bond lengths



Bond angles

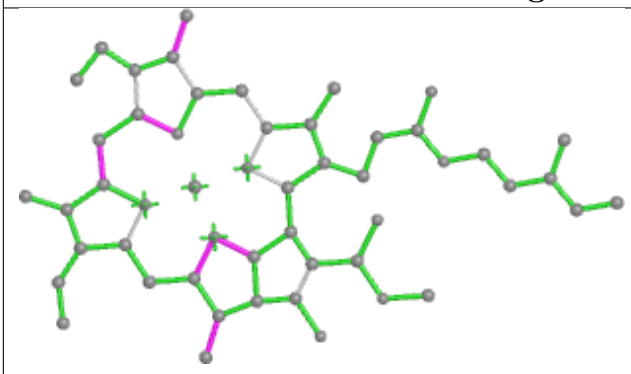


Torsions

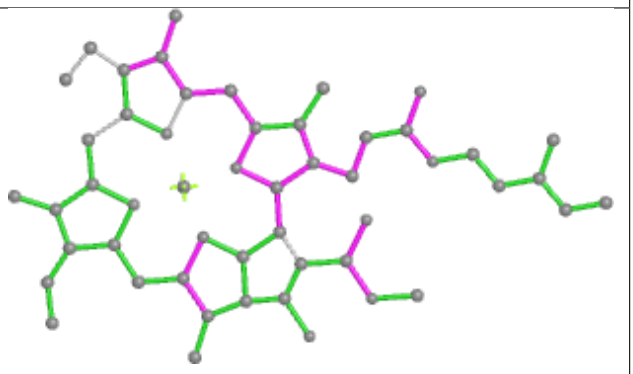


Rings

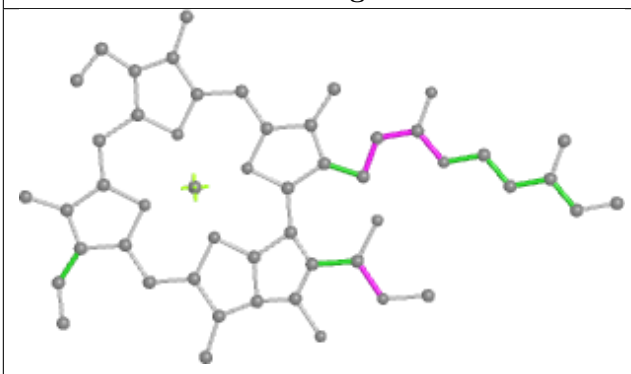
## Ligand CLA k 607



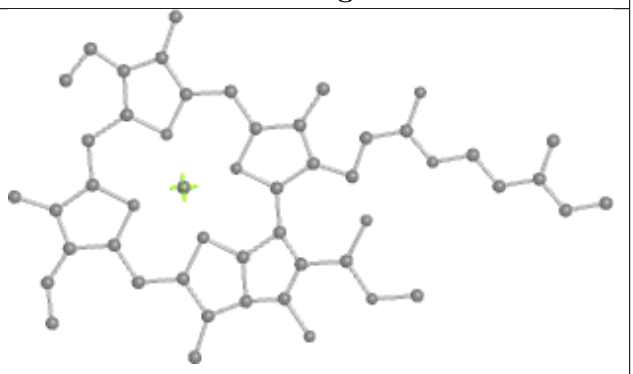
Bond lengths



Bond angles

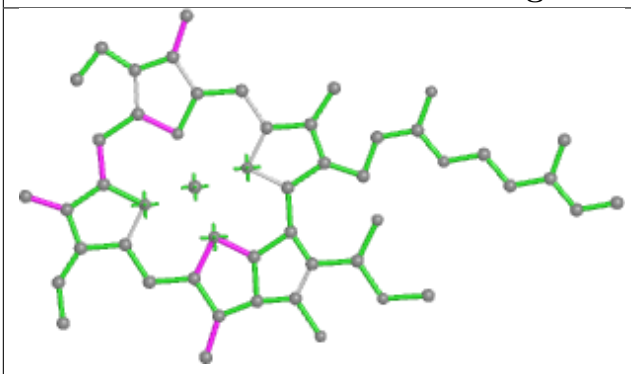


Torsions

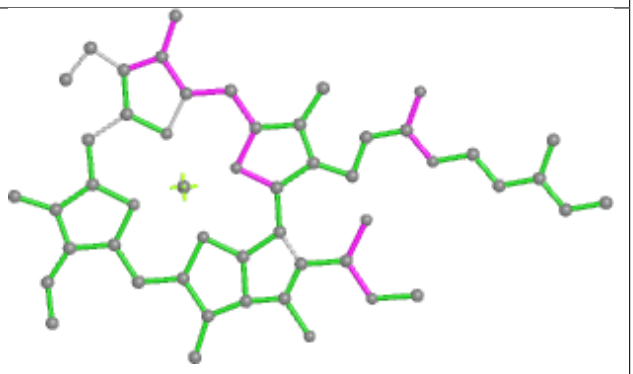


Rings

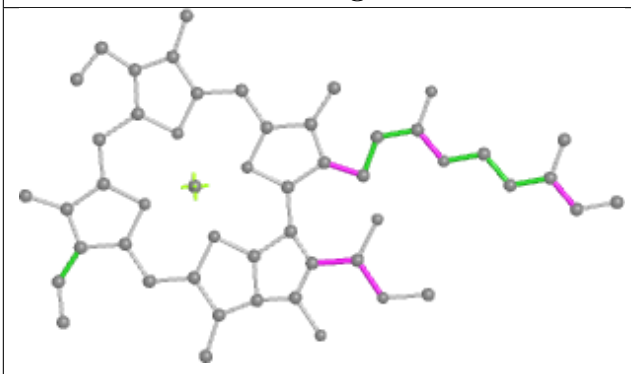
## Ligand CLA L 207



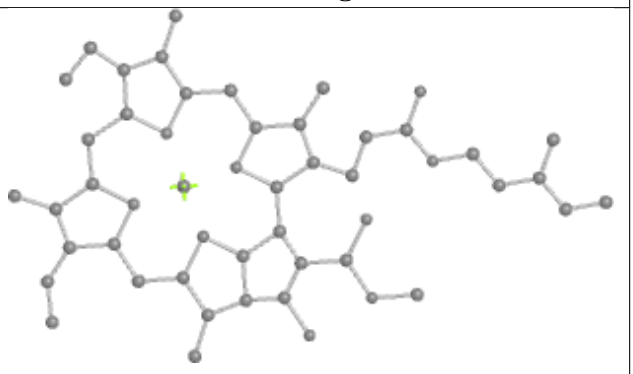
Bond lengths



Bond angles

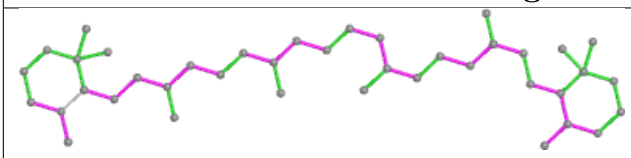


Torsions

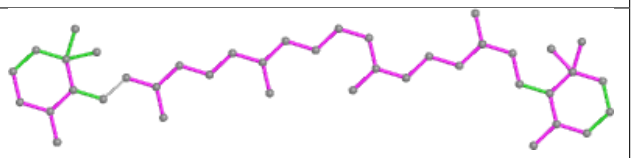


Rings

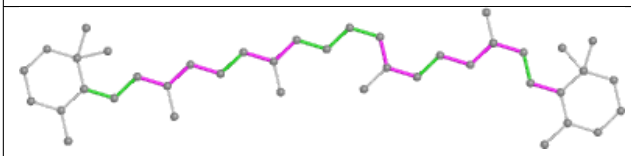
## Ligand WVN i 315



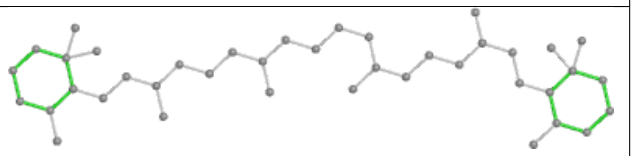
Bond lengths



Bond angles

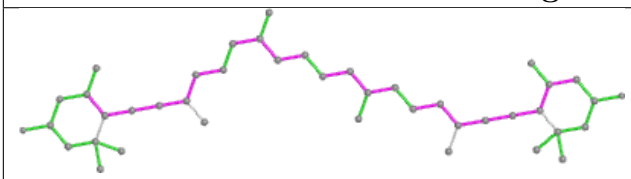


Torsions

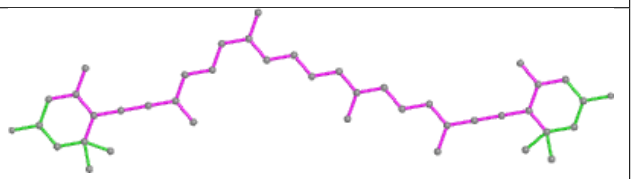


Rings

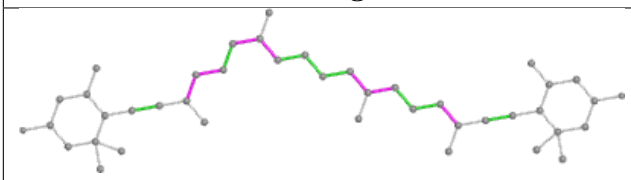
## Ligand II0 b 315



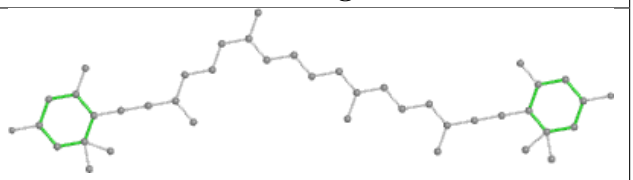
Bond lengths



Bond angles

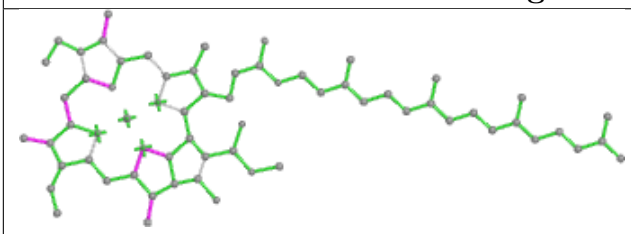


Torsions

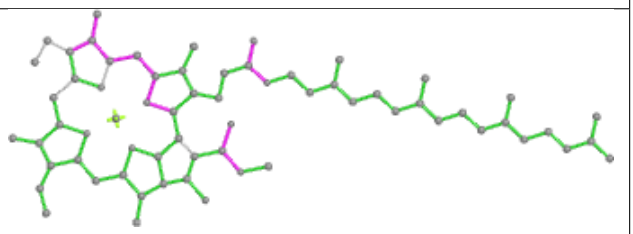


Rings

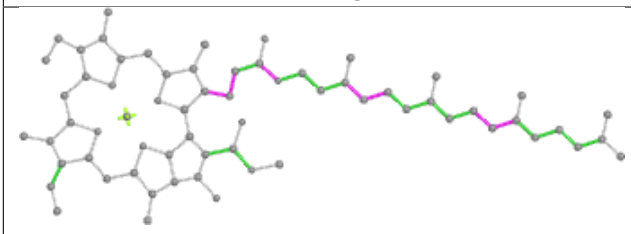
## Ligand CLA h 305



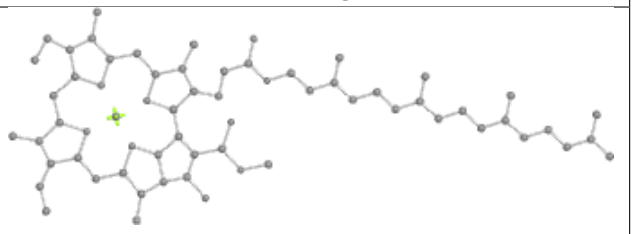
Bond lengths



Bond angles

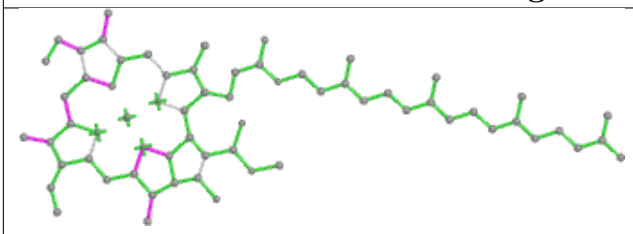


Torsions

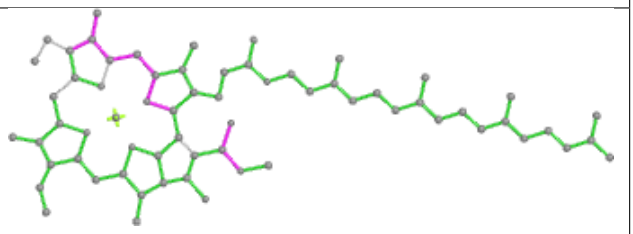


Rings

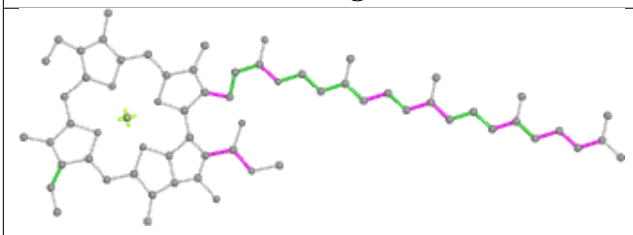
## Ligand CLA k 602



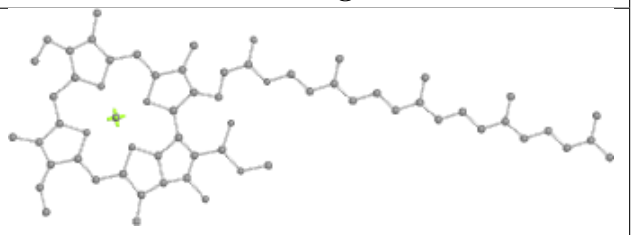
Bond lengths



Bond angles

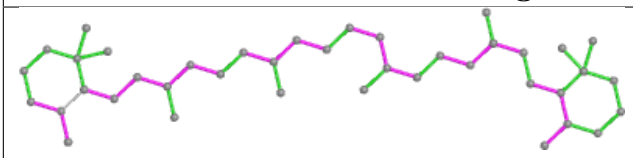


Torsions

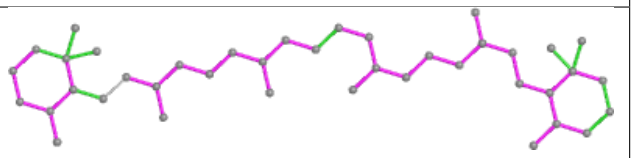


Rings

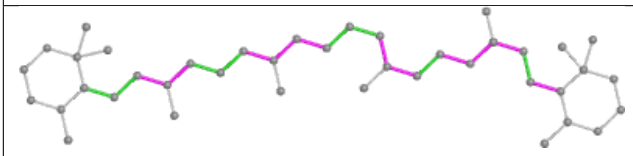
## Ligand WVN A 846



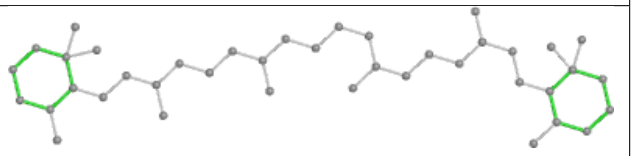
Bond lengths



Bond angles

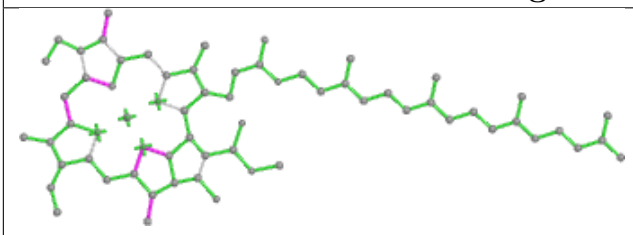


Torsions

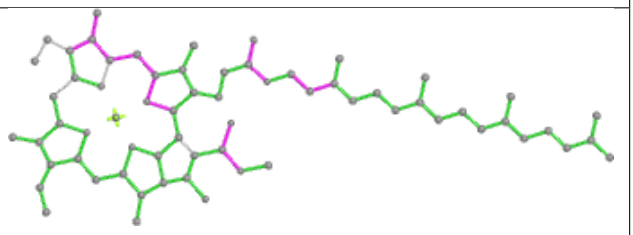


Rings

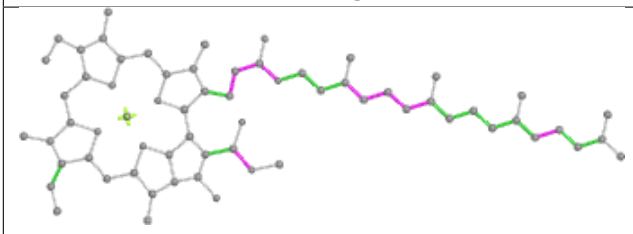
## Ligand CLA e 304



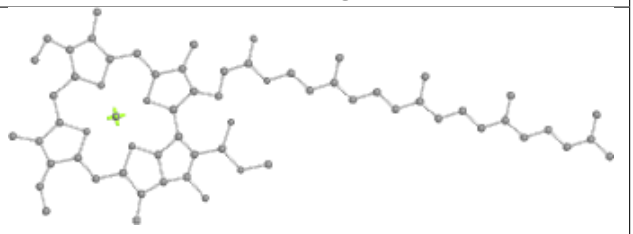
Bond lengths



Bond angles

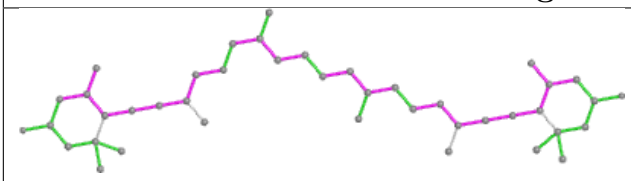


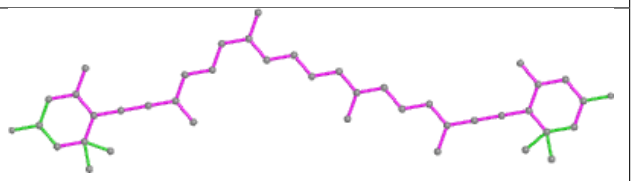
Torsions

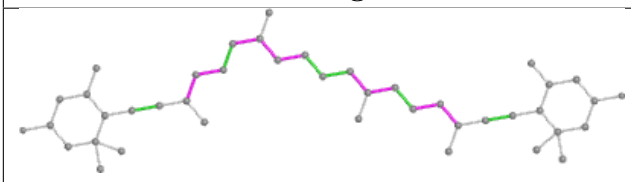


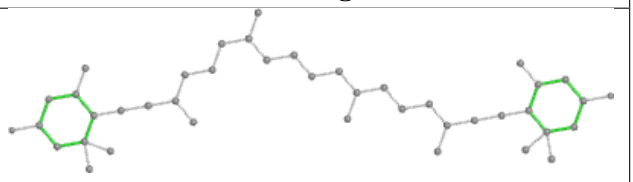
Rings

## Ligand II0 m 614

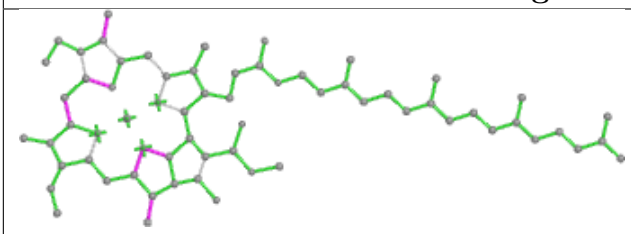

Bond lengths

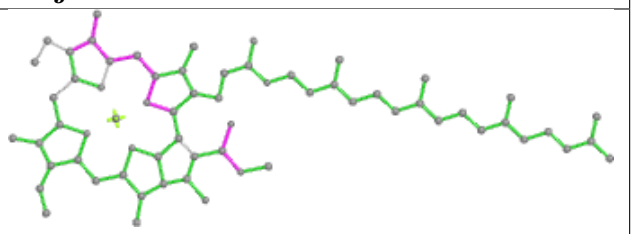

Bond angles

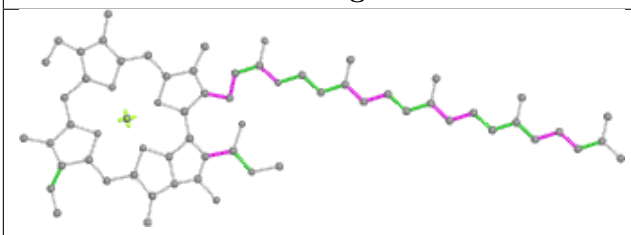

Torsions

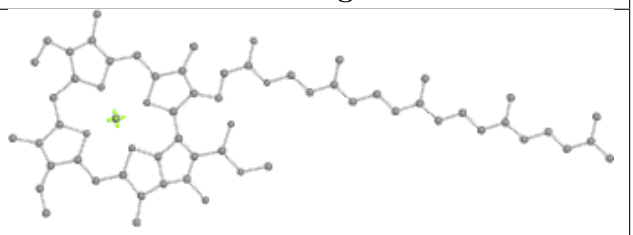

Rings

## Ligand CLA j 302

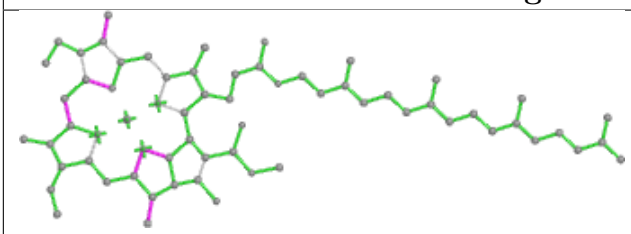

Bond lengths

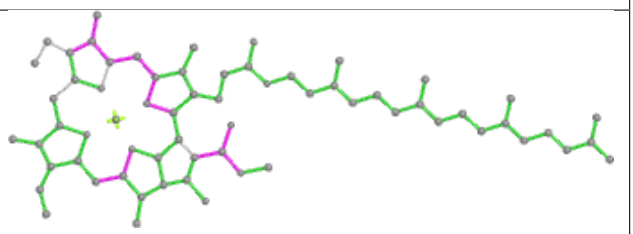

Bond angles

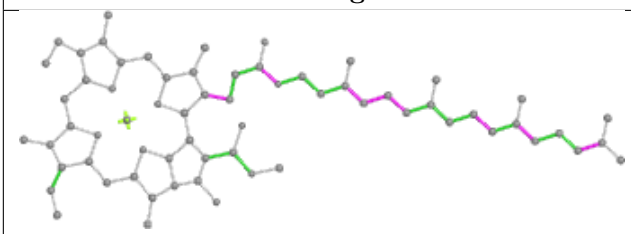

Torsions

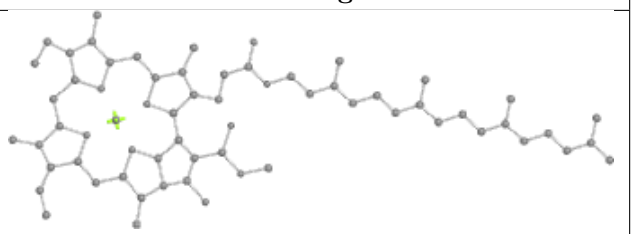

Rings

## Ligand CLA B 817

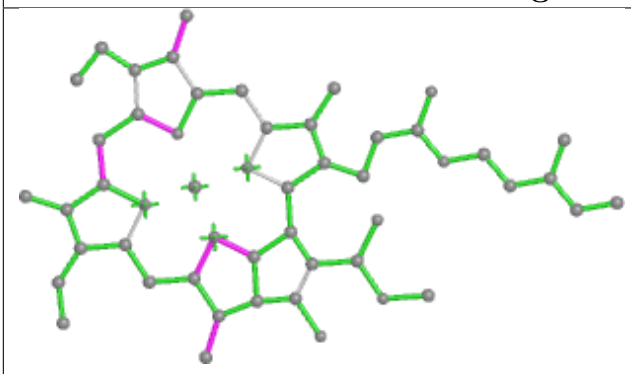

Bond lengths


Bond angles

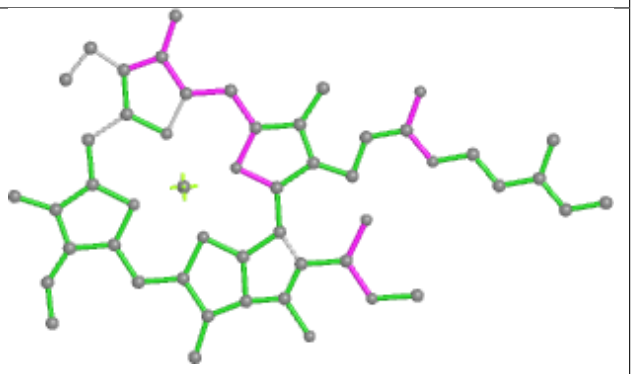

Torsions


Rings

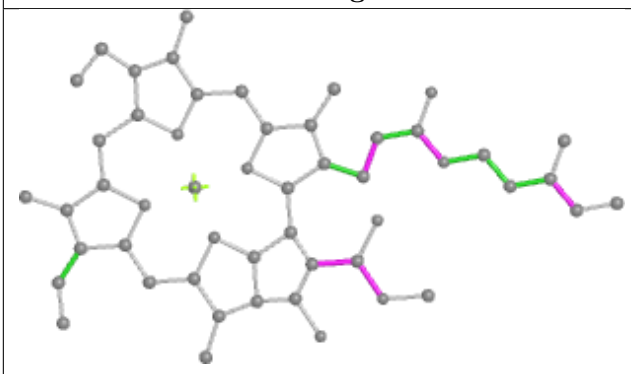
## Ligand CLA f 612



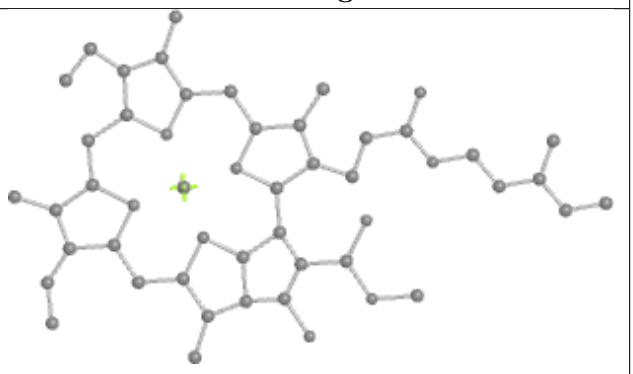
Bond lengths



Bond angles

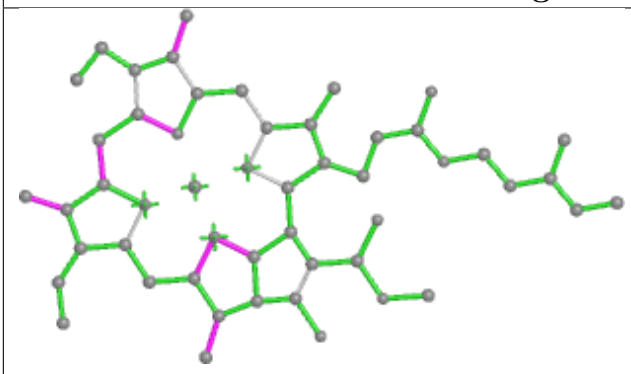


Torsions

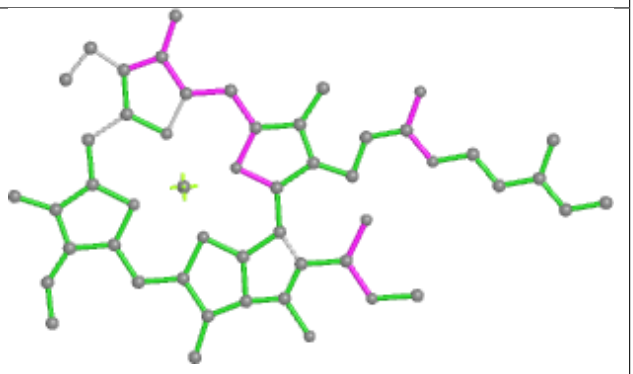


Rings

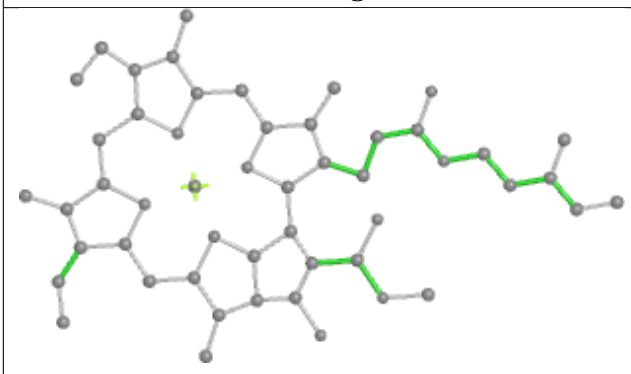
## Ligand CLA l 305



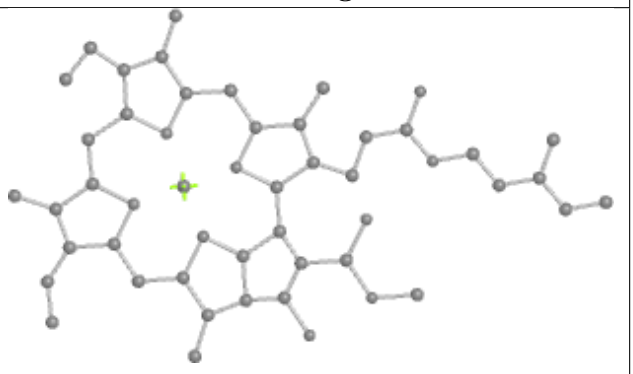
Bond lengths



Bond angles

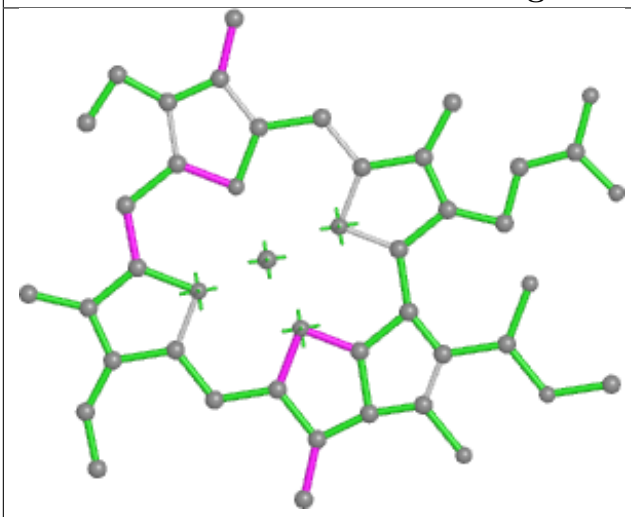


Torsions

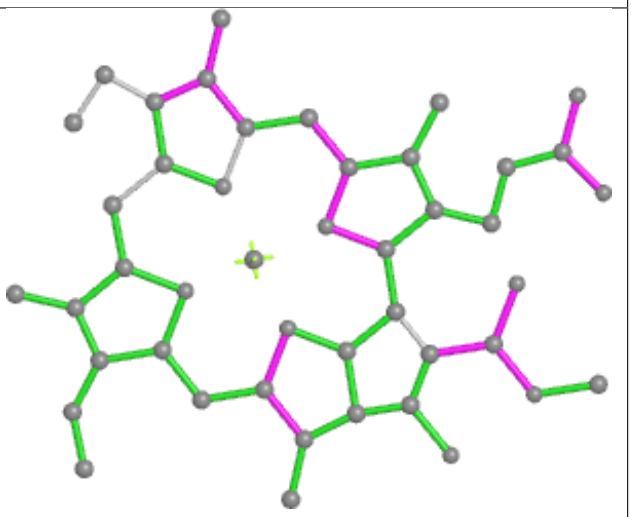


Rings

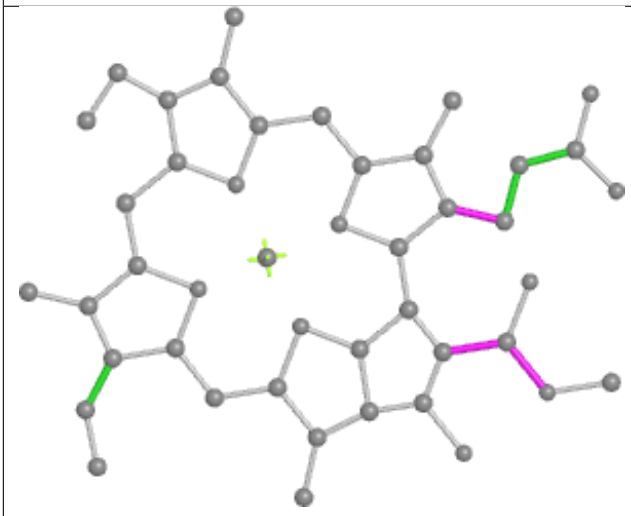
**Ligand CLA d 307**



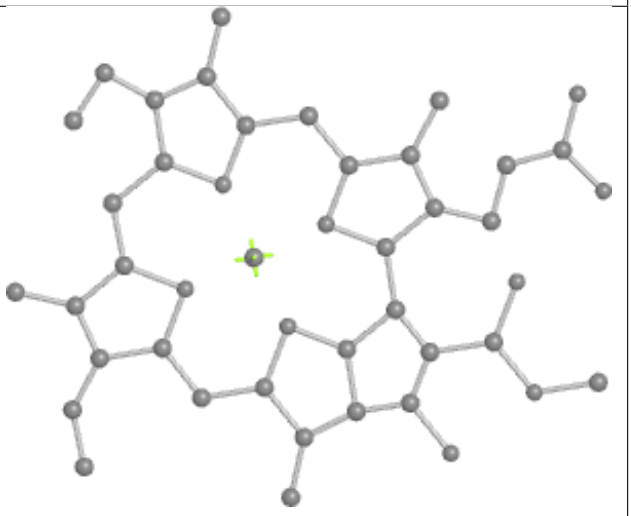
**Bond lengths**



**Bond angles**

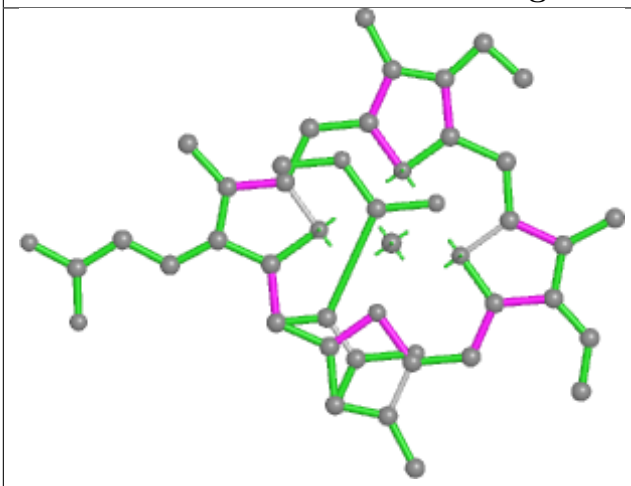


**Torsions**

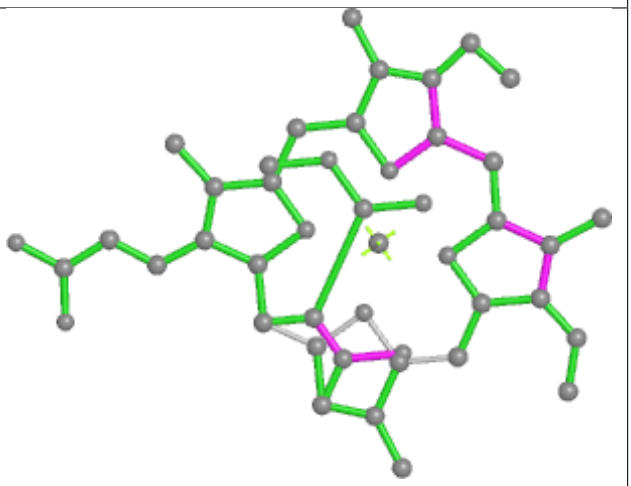


**Rings**

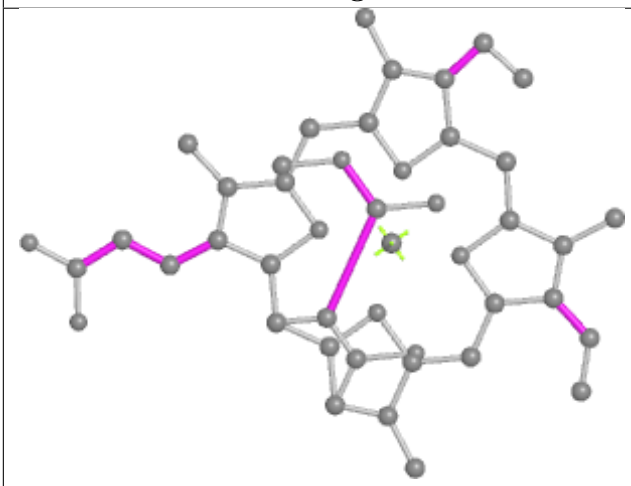
## Ligand KC2 d 312



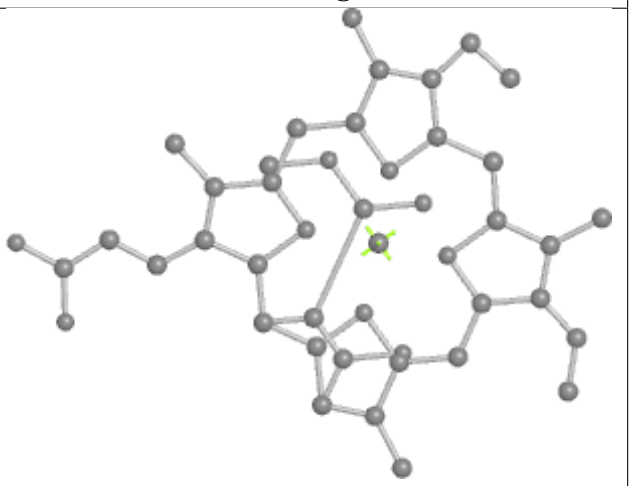
Bond lengths



Bond angles

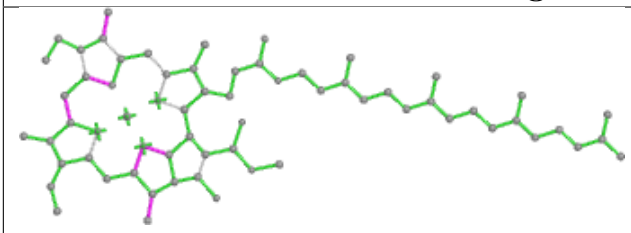


Torsions

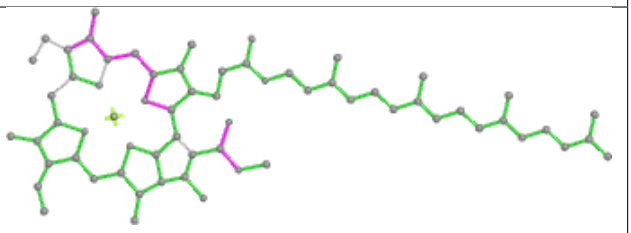


Rings

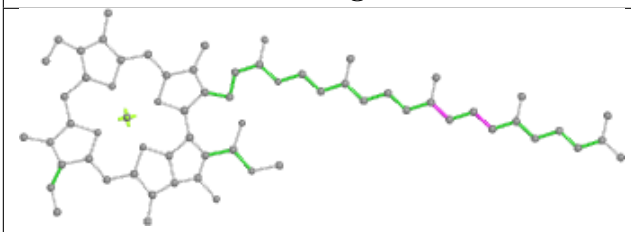
## Ligand CLA b 309



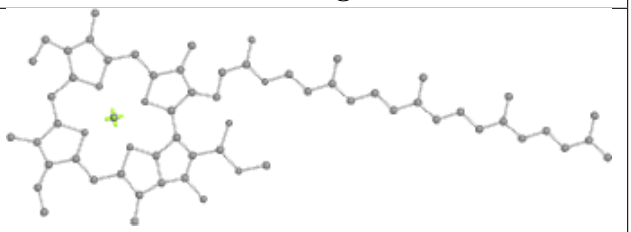
Bond lengths



Bond angles

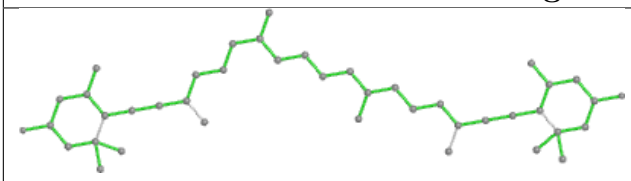


Torsions

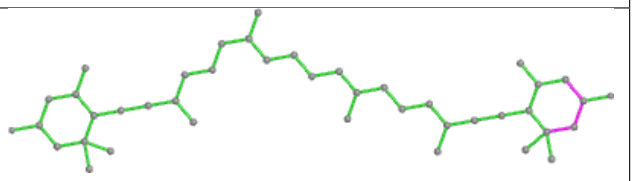


Rings

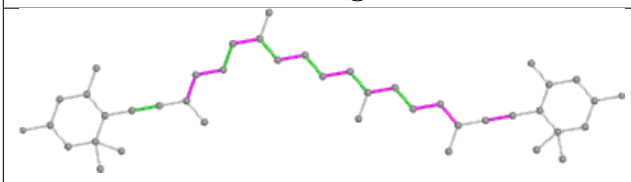
## Ligand II0 e 316



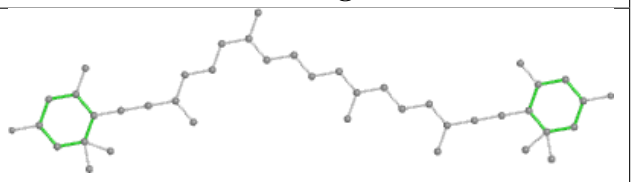
Bond lengths



Bond angles

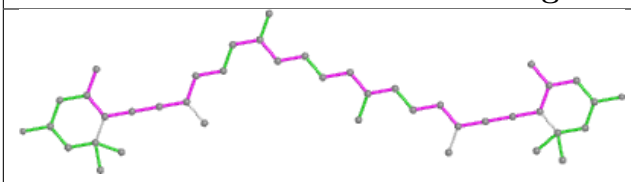


Torsions

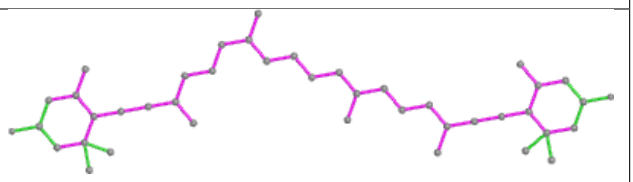


Rings

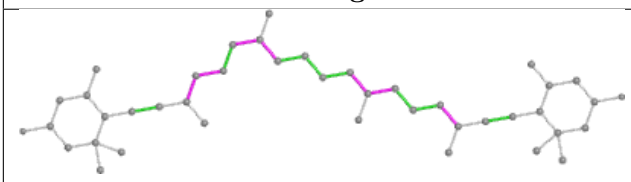
## Ligand II0 h 310



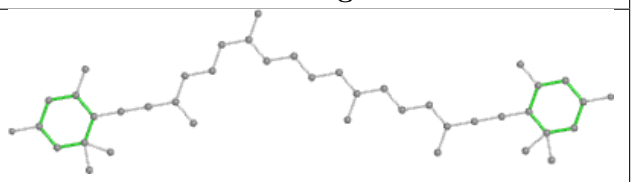
Bond lengths



Bond angles

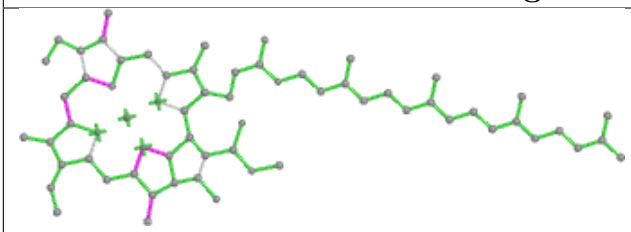


Torsions

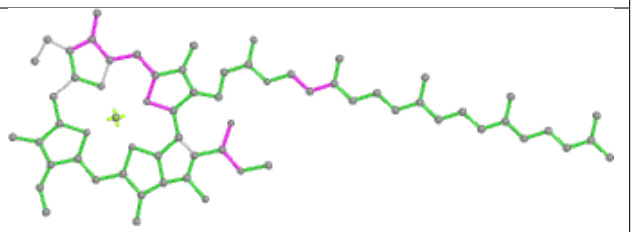


Rings

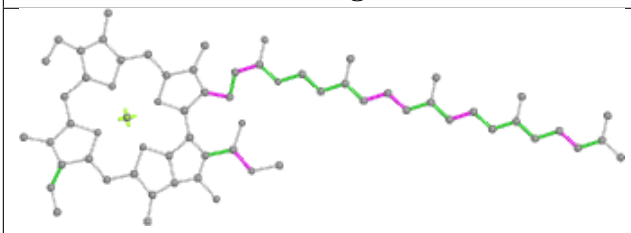
## Ligand CLA O 202



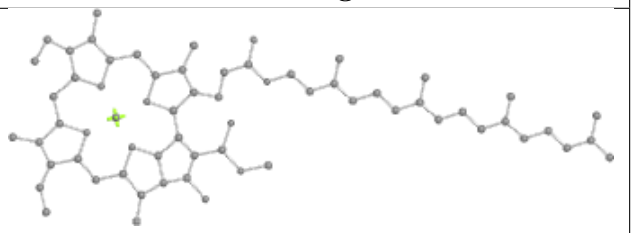
Bond lengths



Bond angles

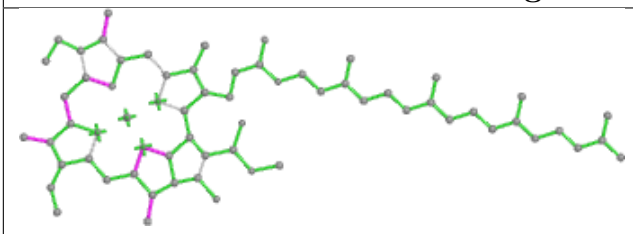


Torsions

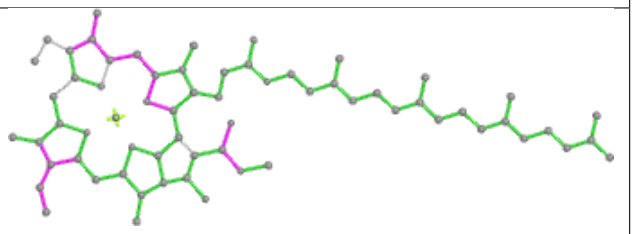


Rings

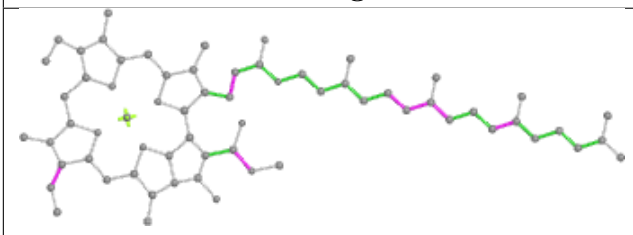
## Ligand CLA B 804



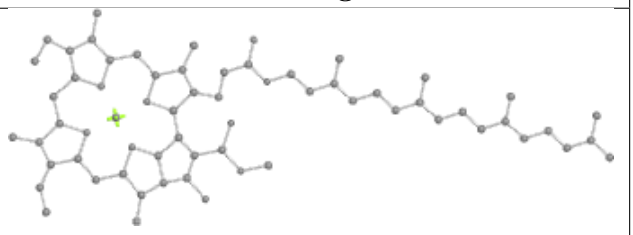
Bond lengths



Bond angles

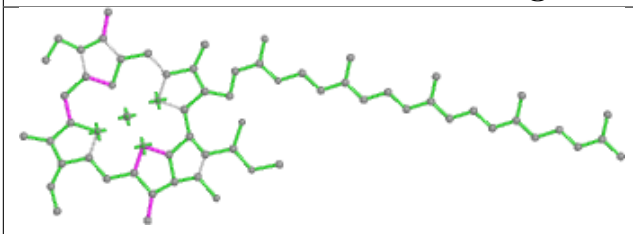


Torsions

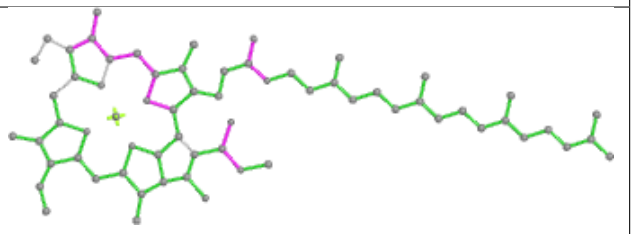


Rings

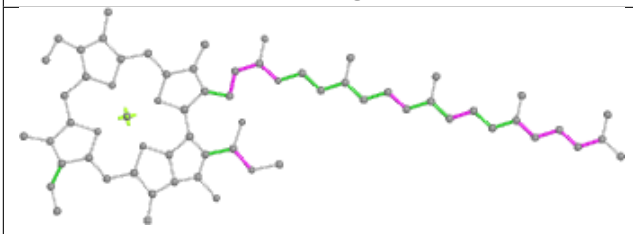
## Ligand CLA e 307



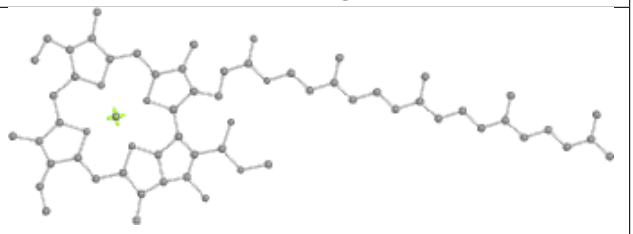
Bond lengths



Bond angles

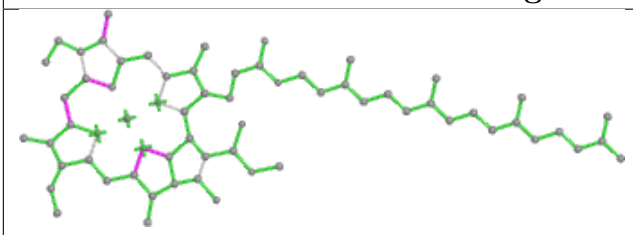


Torsions

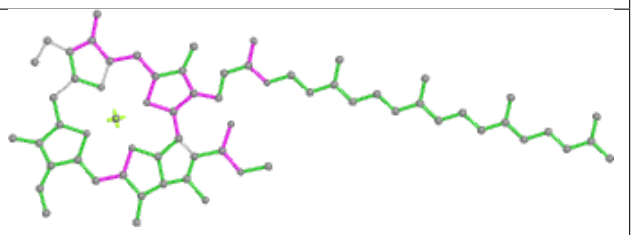


Rings

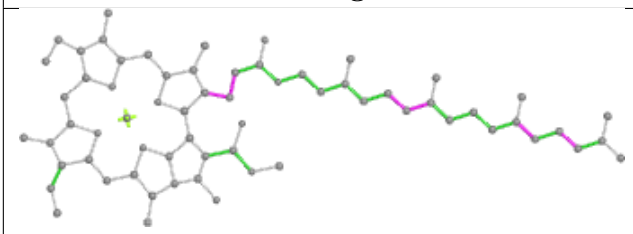
## Ligand CLA B 829



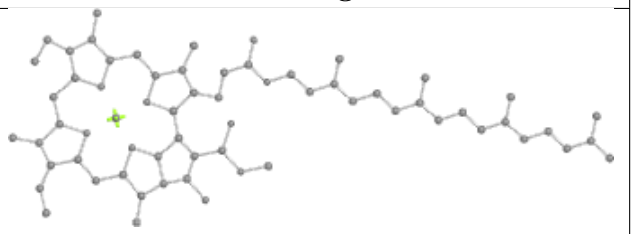
Bond lengths



Bond angles

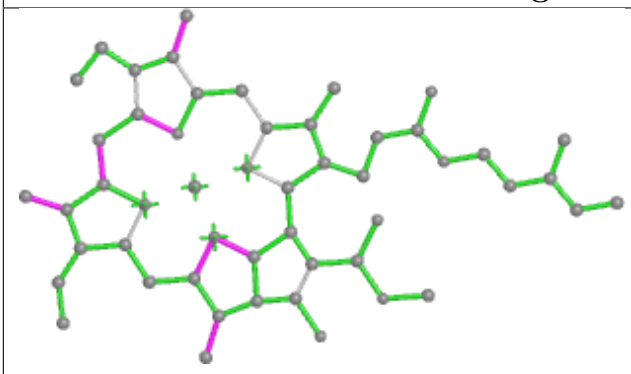


Torsions

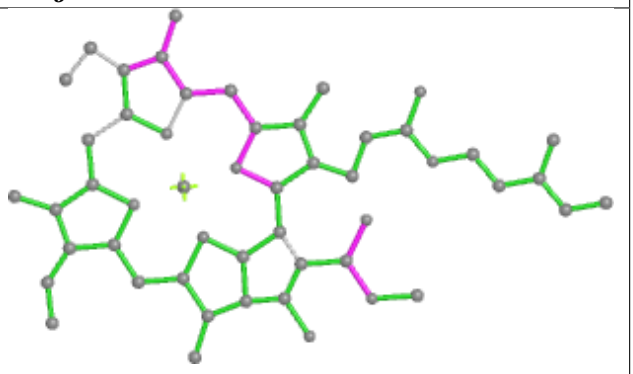


Rings

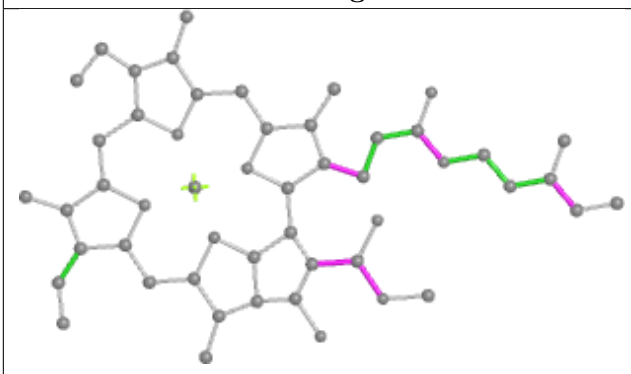
## Ligand CLA j 313



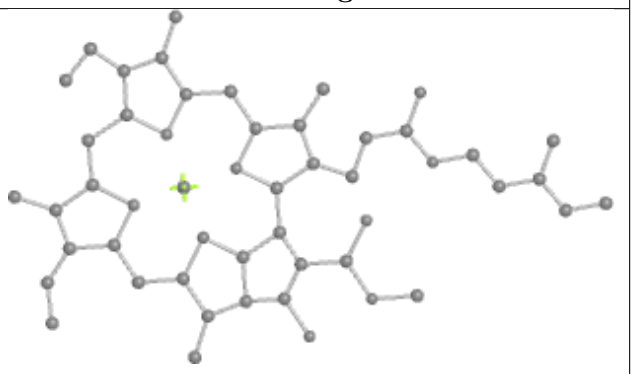
Bond lengths



Bond angles

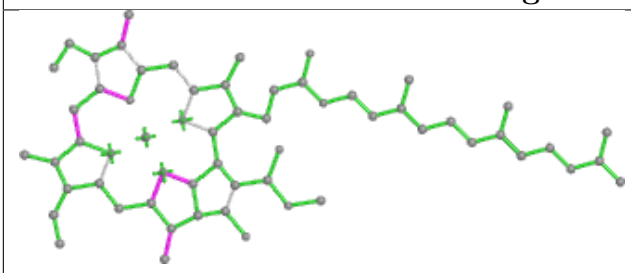


Torsions

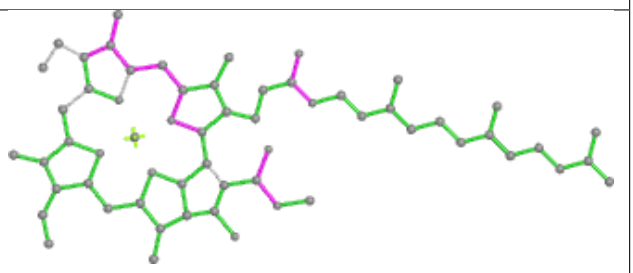


Rings

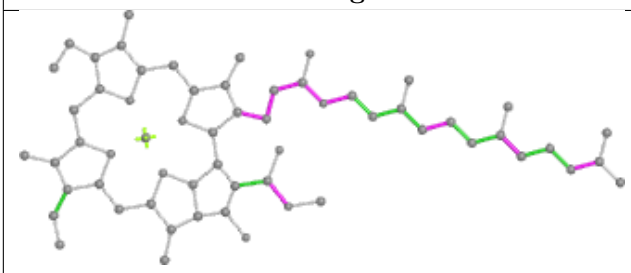
## Ligand CLA m 609



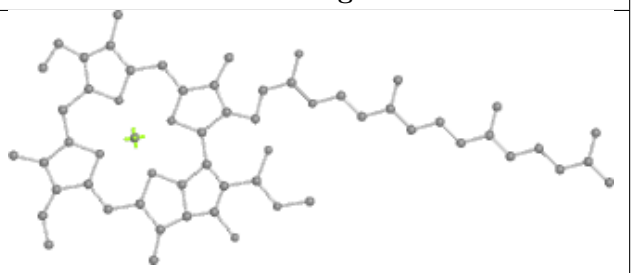
Bond lengths



Bond angles

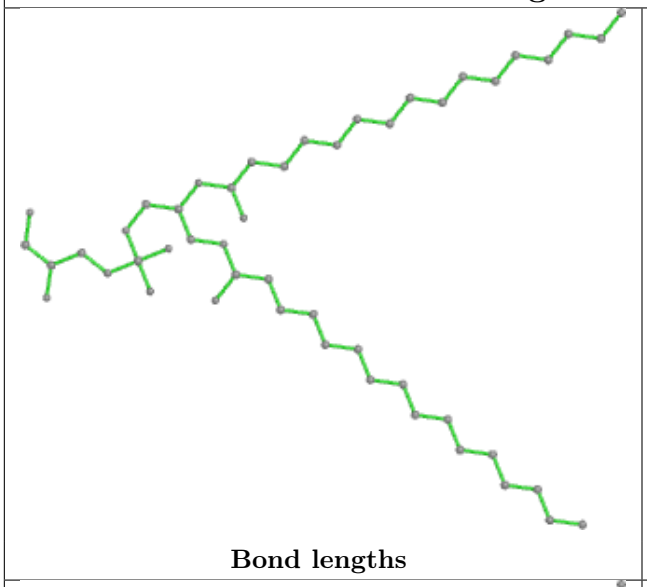


Torsions

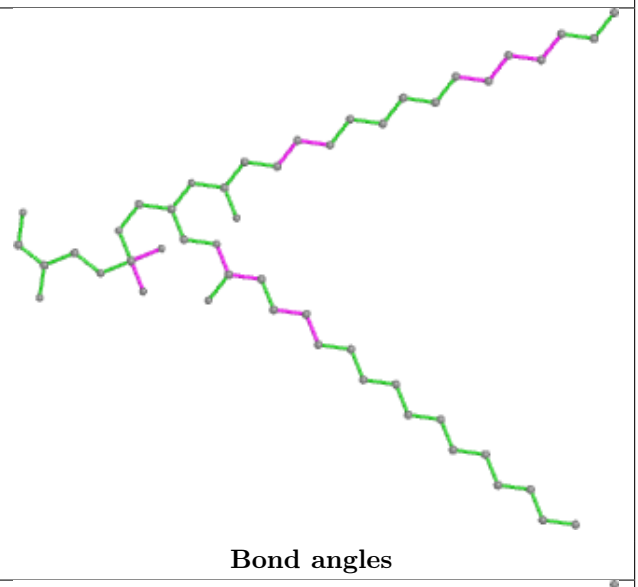


Rings

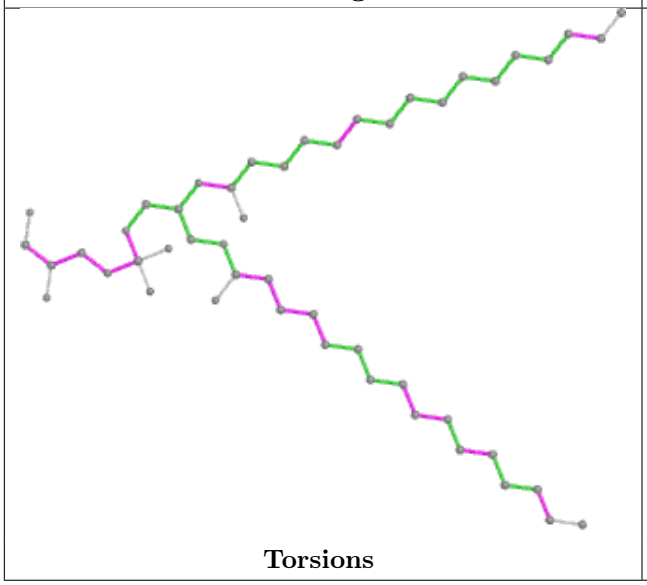
## Ligand LHG c 320



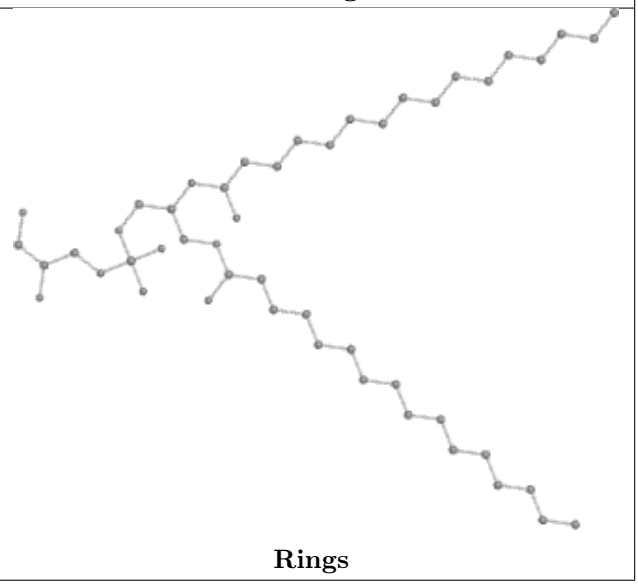
Bond lengths



Bond angles

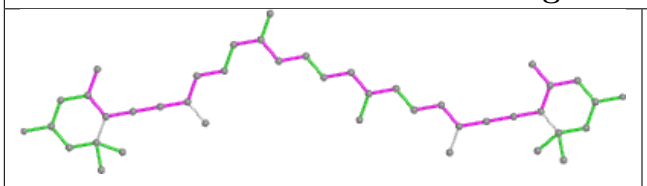


Torsions

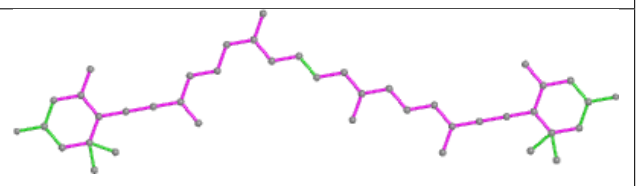


Rings

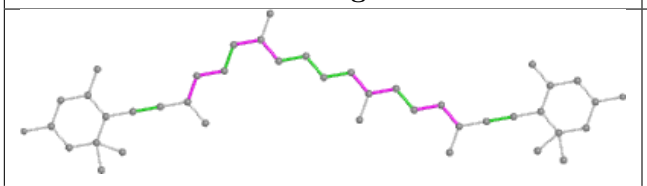
## Ligand II0 d 317



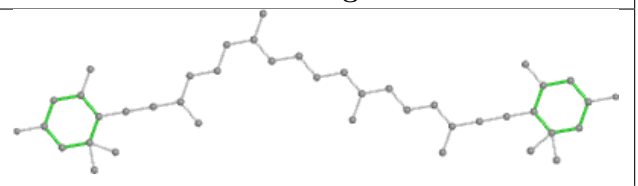
Bond lengths



Bond angles

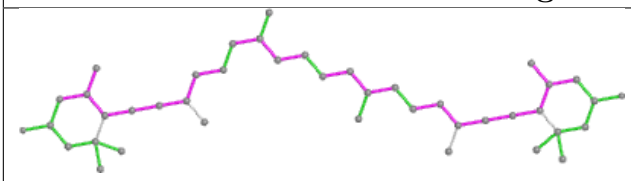


Torsions

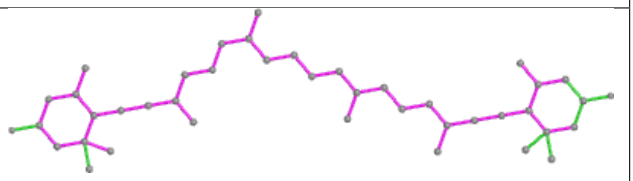


Rings

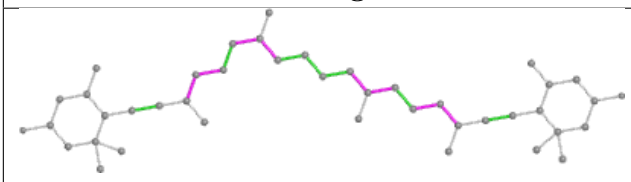
**Ligand II0 m 616**



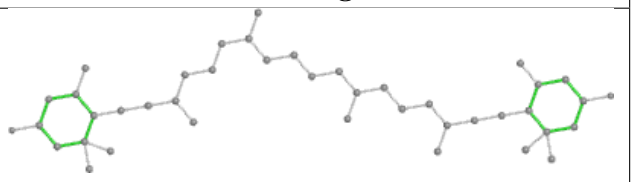
Bond lengths



Bond angles

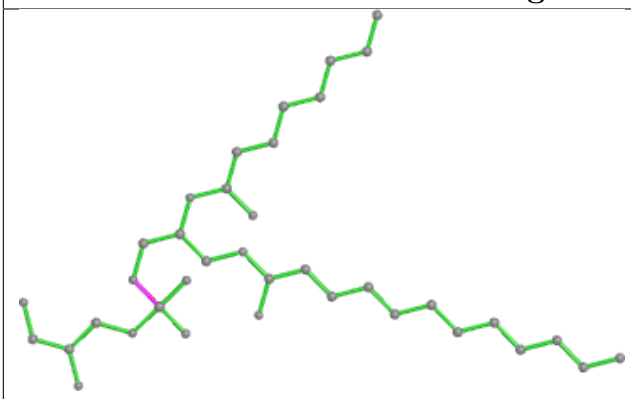


Torsions

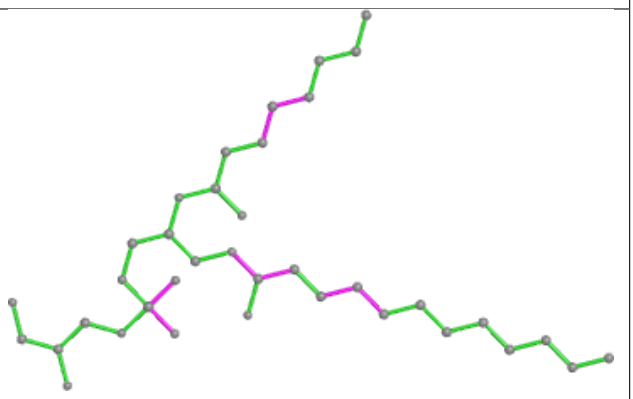


Rings

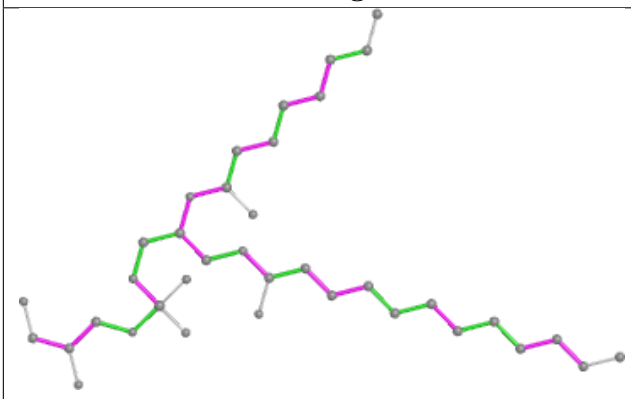
**Ligand LHG e 317**



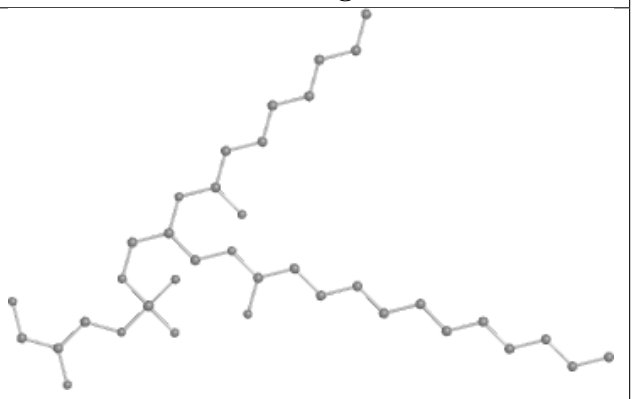
Bond lengths



Bond angles

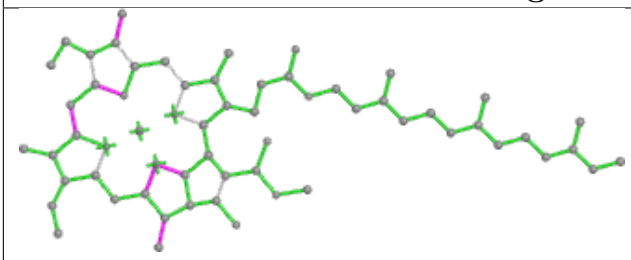


Torsions

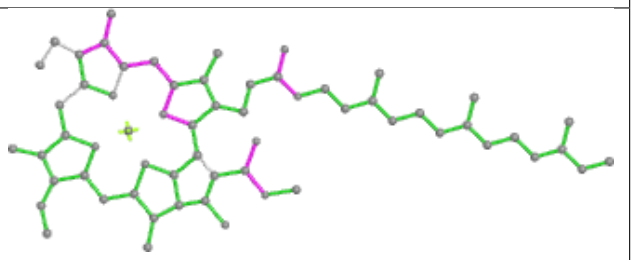


Rings

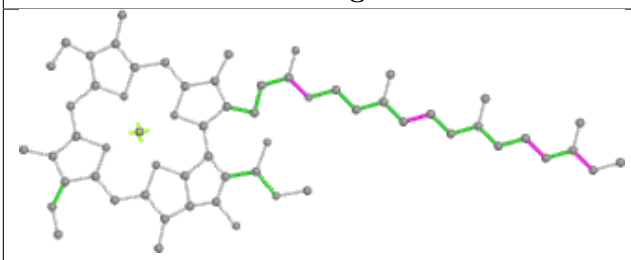
**Ligand CLA b 307**



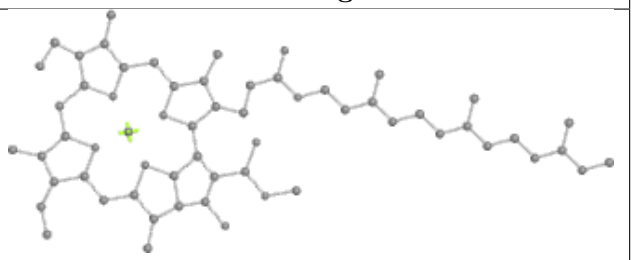
Bond lengths



Bond angles

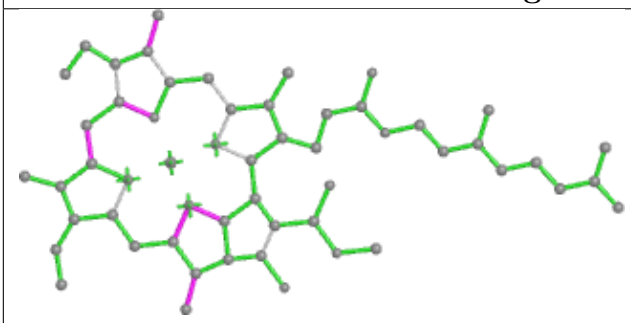


Torsions

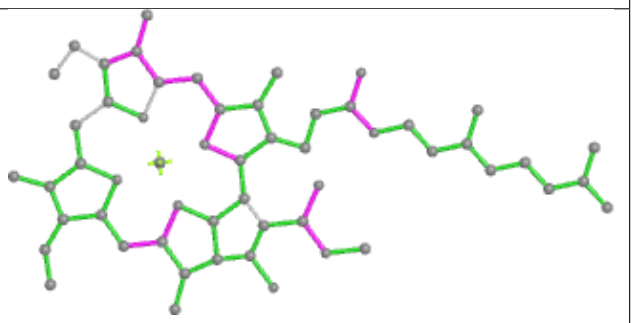


Rings

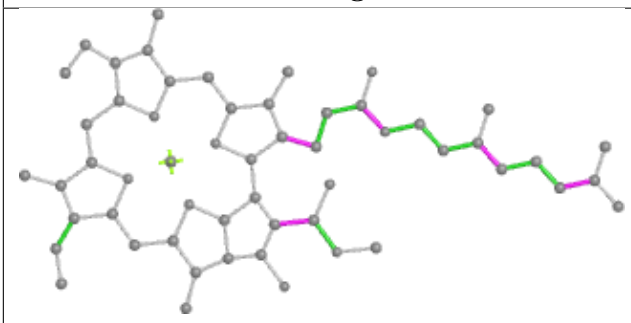
**Ligand CLA A 803**



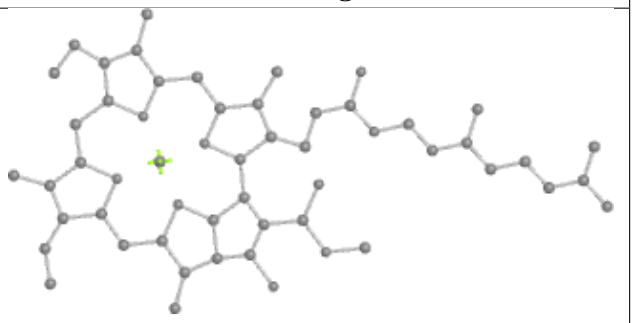
Bond lengths



Bond angles

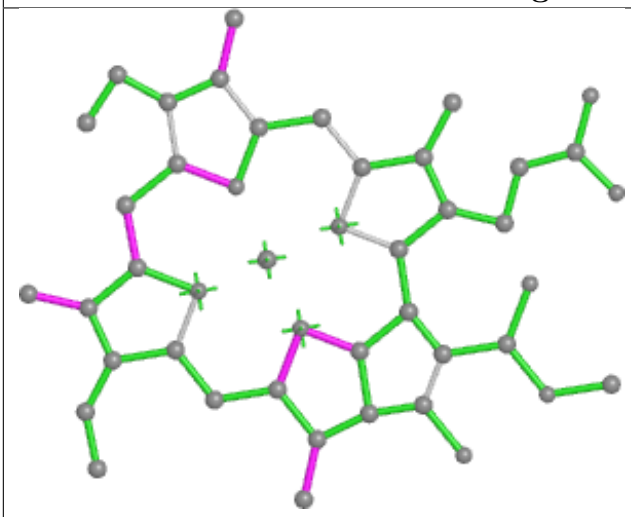


Torsions

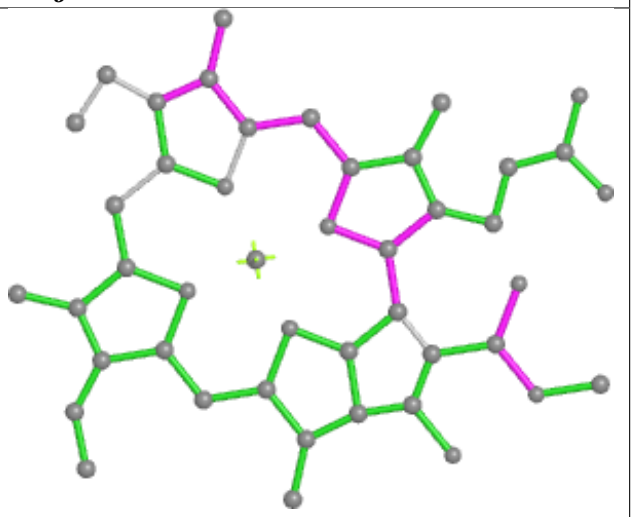


Rings

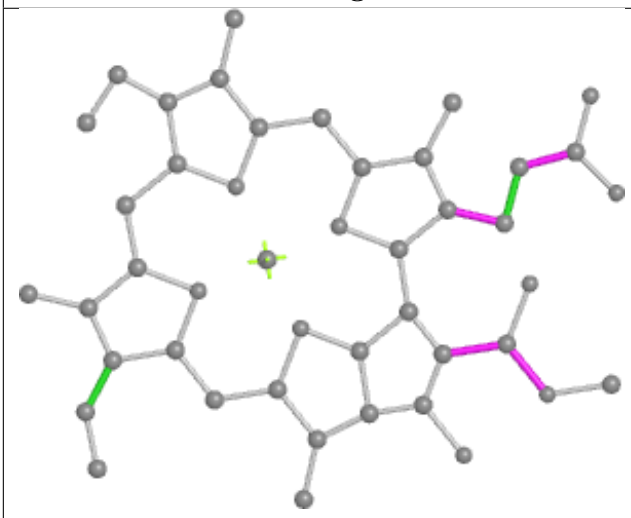
## Ligand CLA j 306



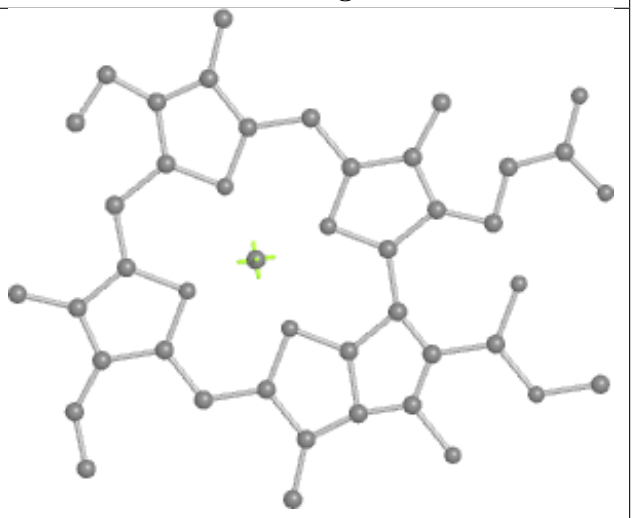
Bond lengths



Bond angles

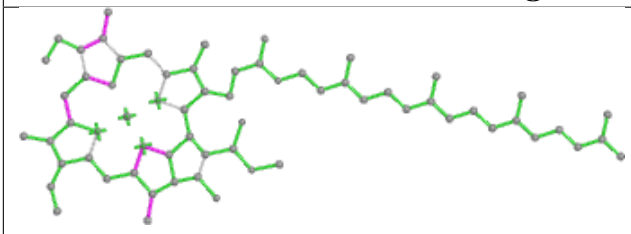


Torsions

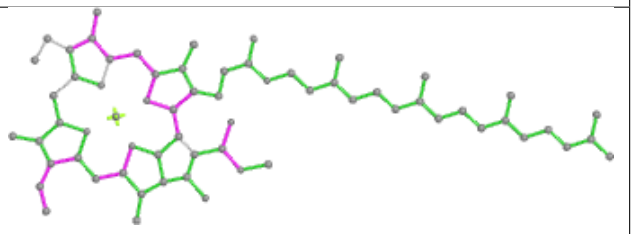


Rings

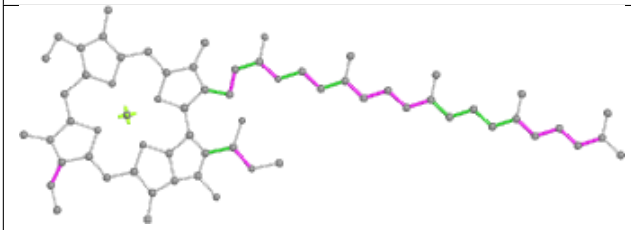
## Ligand CLA B 841



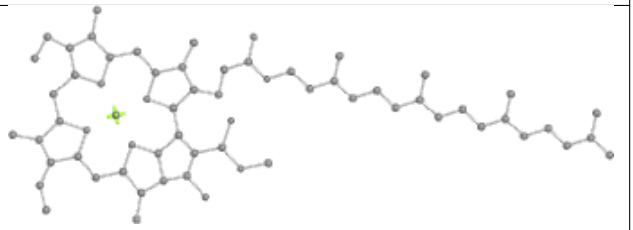
Bond lengths



Bond angles

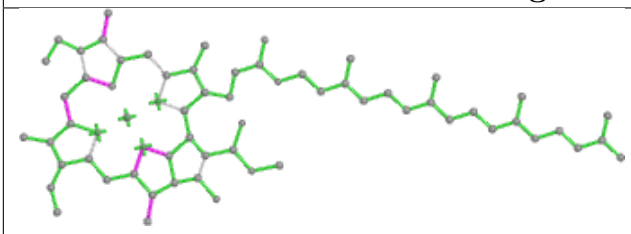


Torsions

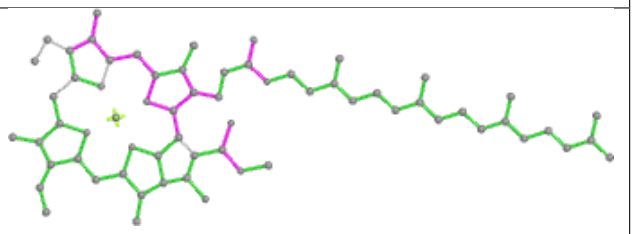


Rings

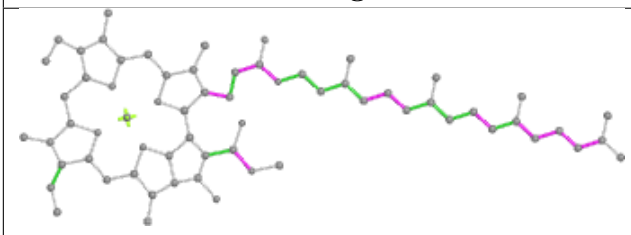
## Ligand CLA e 311



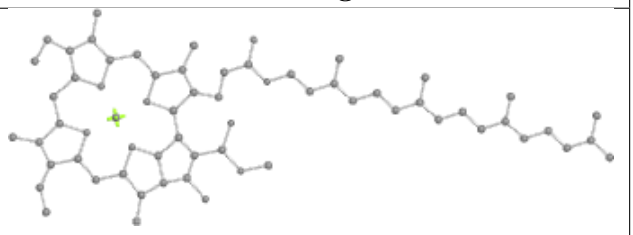
Bond lengths



Bond angles

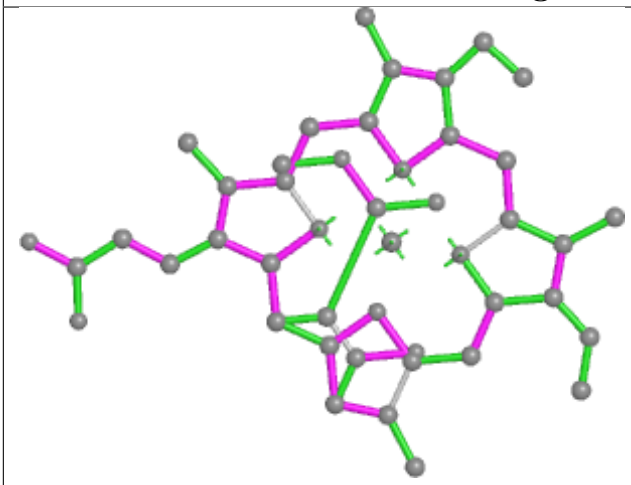


Torsions

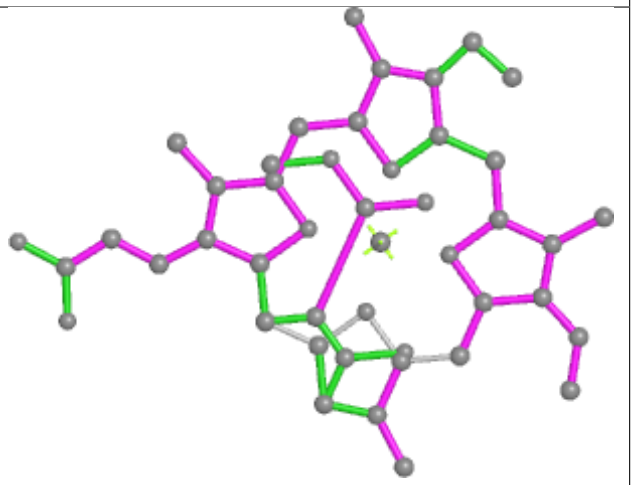


Rings

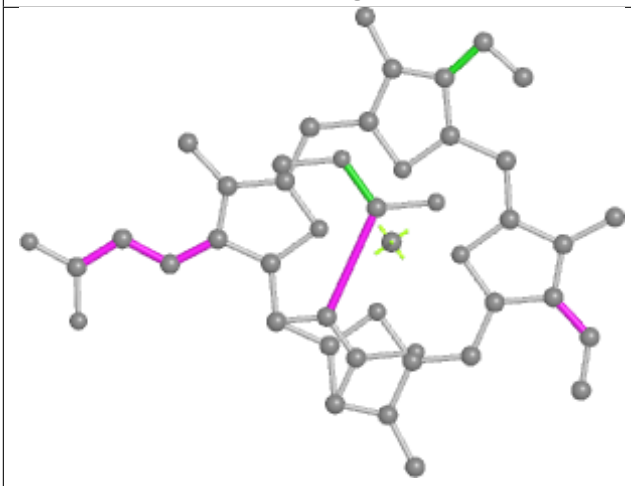
## Ligand KC2 s 401



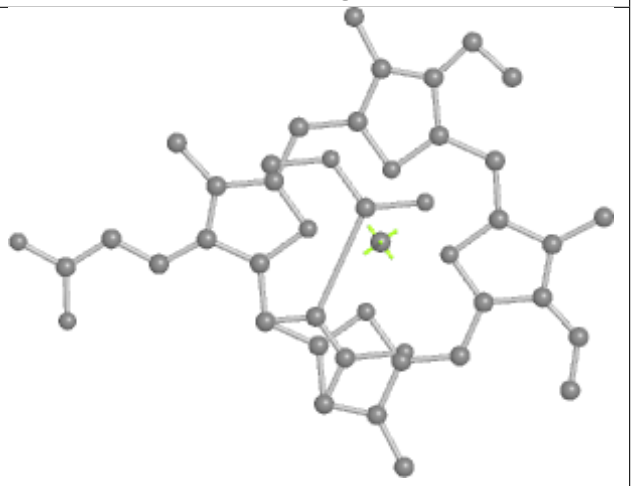
Bond lengths



Bond angles

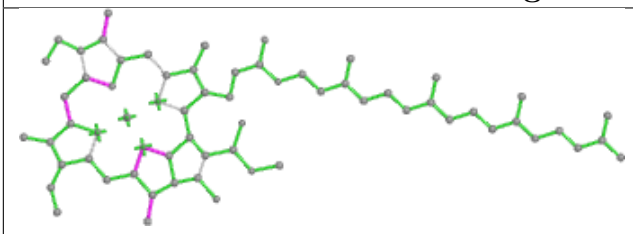


Torsions

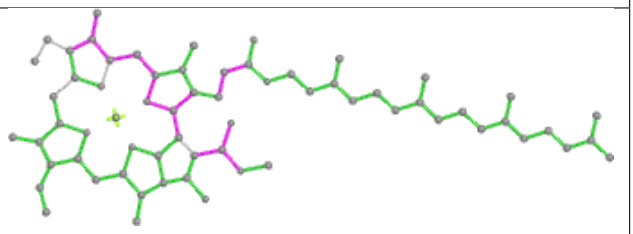


Rings

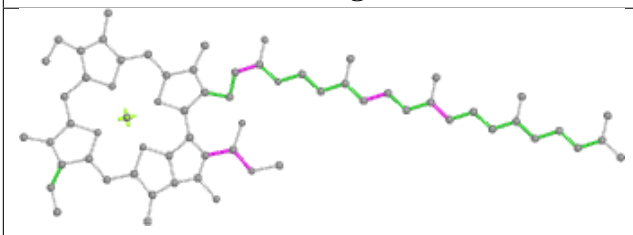
## Ligand CLA A 836



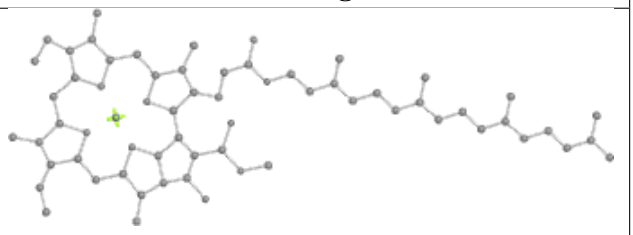
Bond lengths



Bond angles

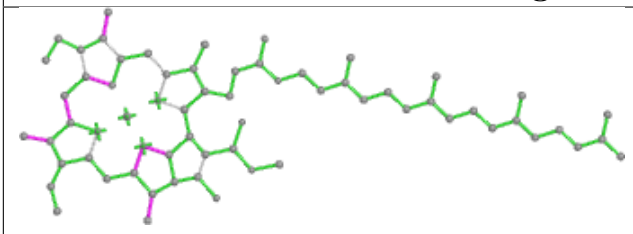


Torsions

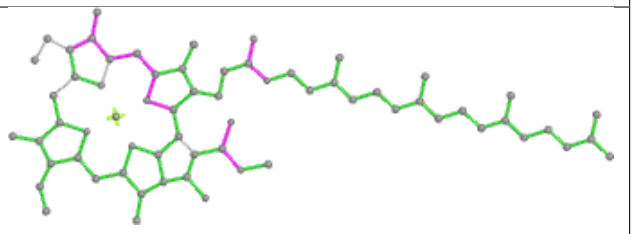


Rings

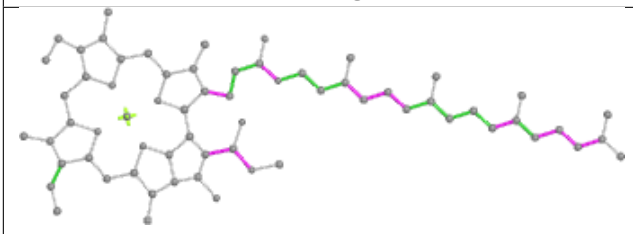
## Ligand CLA f 602



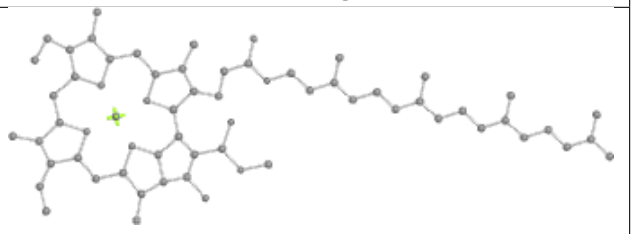
Bond lengths



Bond angles

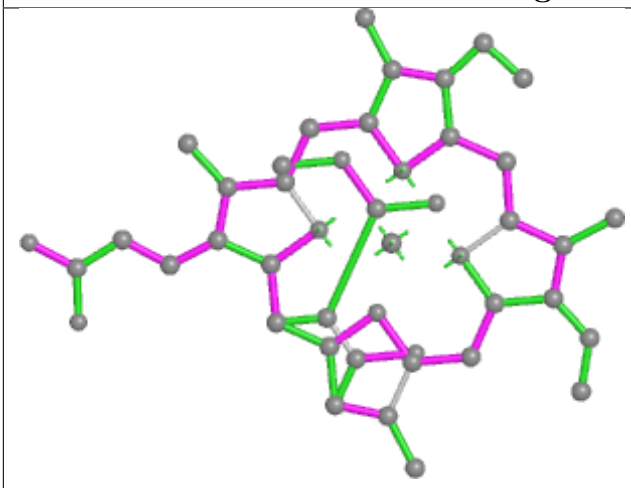


Torsions

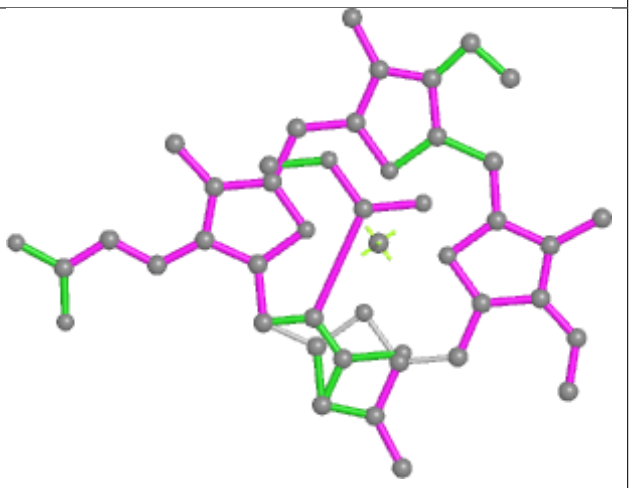


Rings

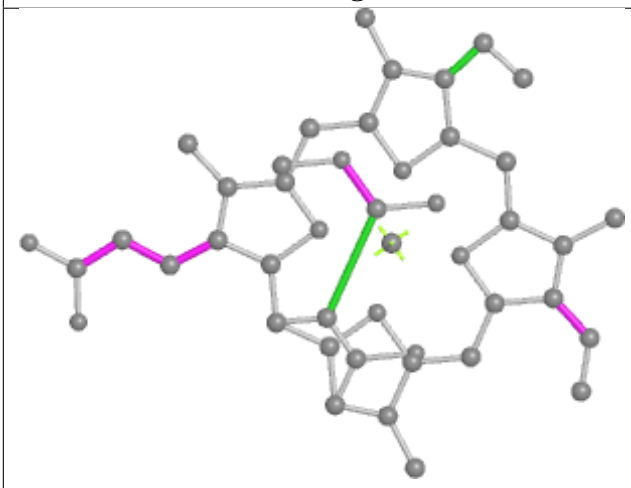
## Ligand KC2 i 318



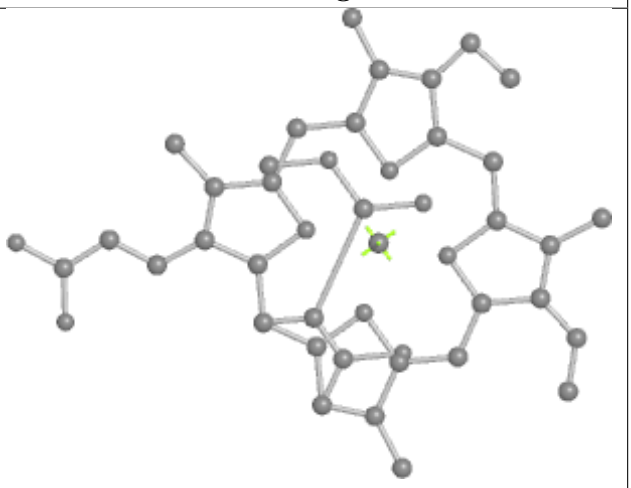
Bond lengths



Bond angles

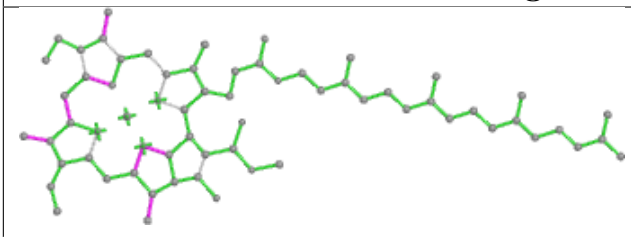


Torsions

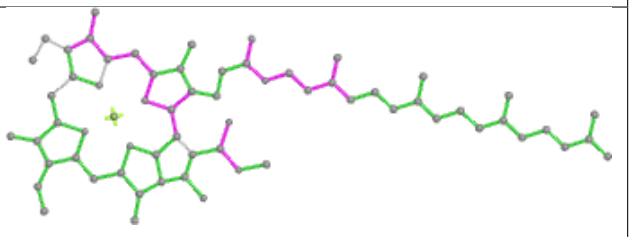


Rings

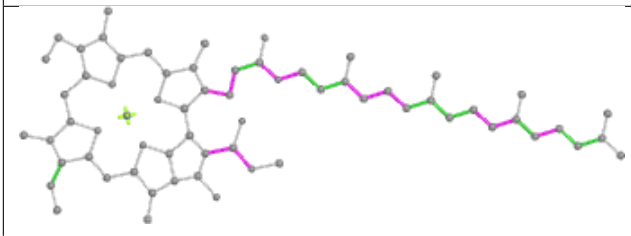
## Ligand CLA B 822



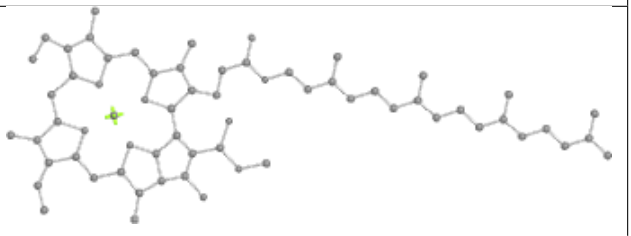
Bond lengths



Bond angles

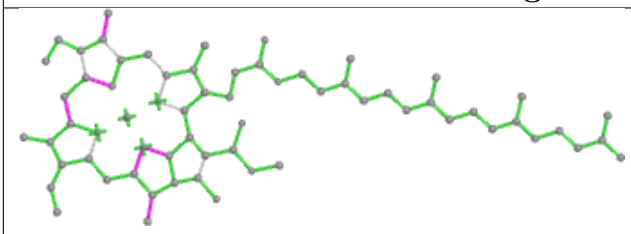


Torsions

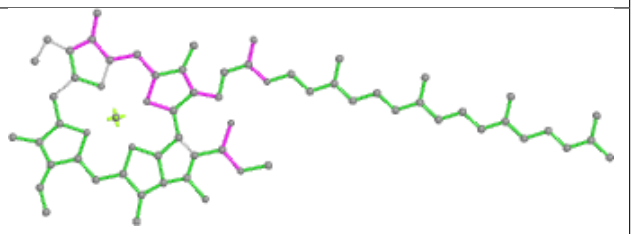


Rings

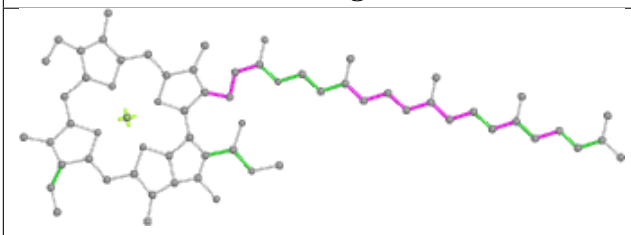
## Ligand CLA A 840



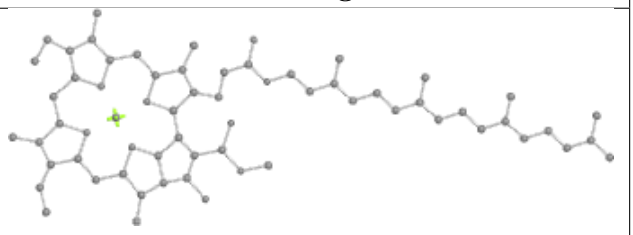
Bond lengths



Bond angles

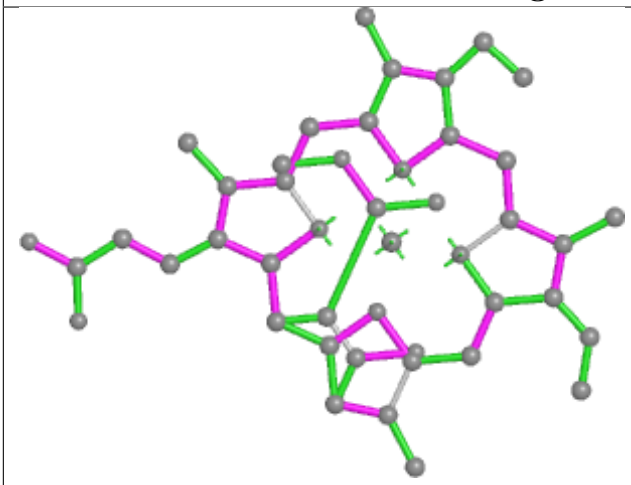


Torsions

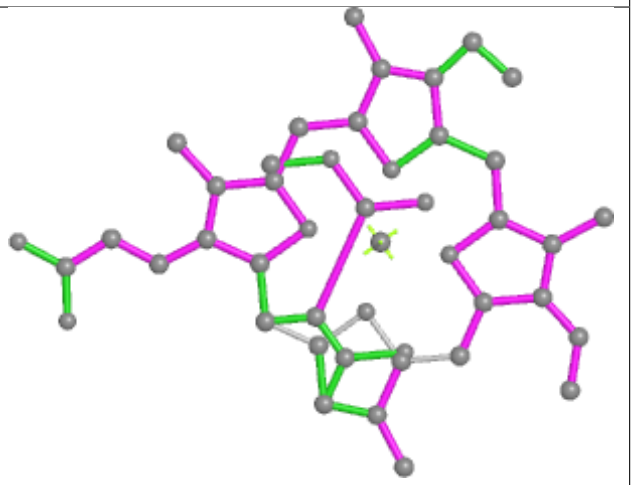


Rings

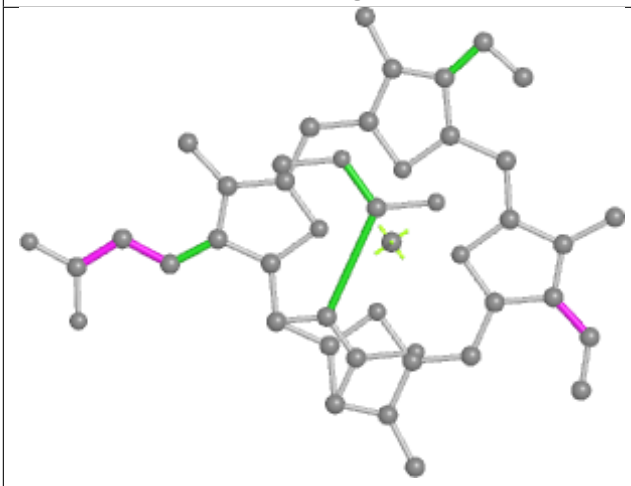
## Ligand KC2 n 611



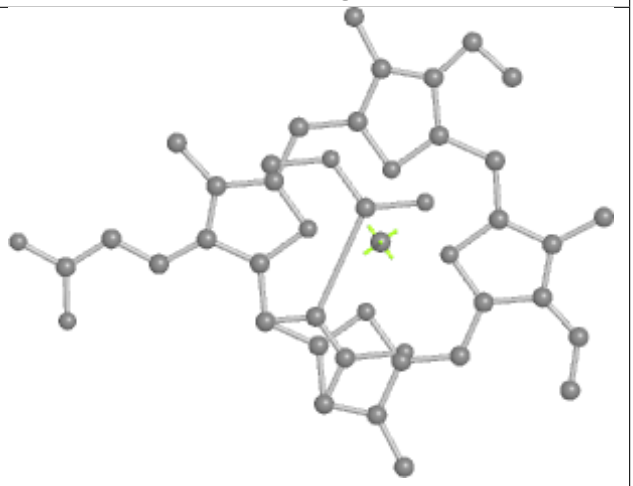
Bond lengths



Bond angles

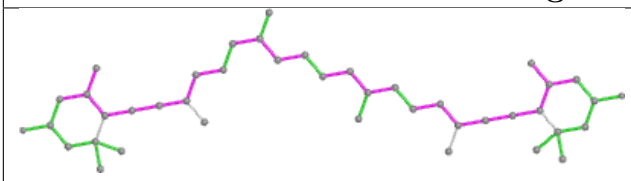


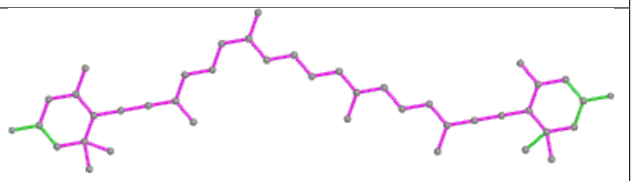
Torsions

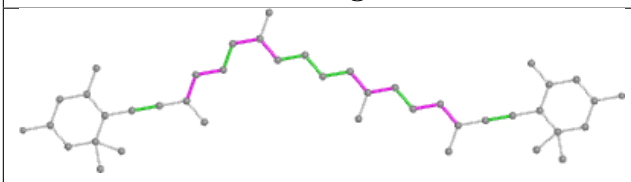


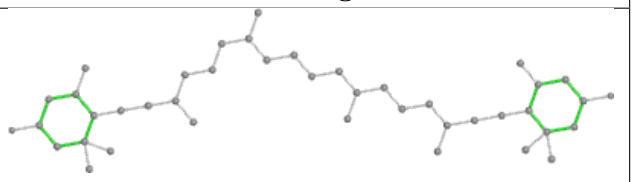
Rings

## Ligand II0 l 315

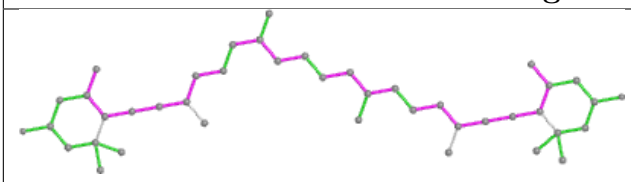

Bond lengths

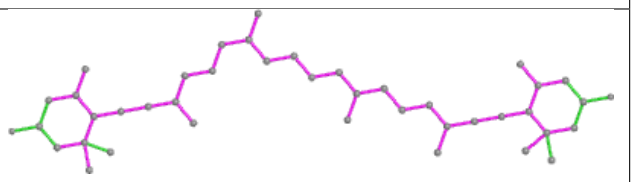

Bond angles

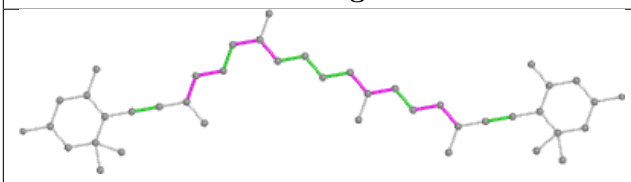

Torsions

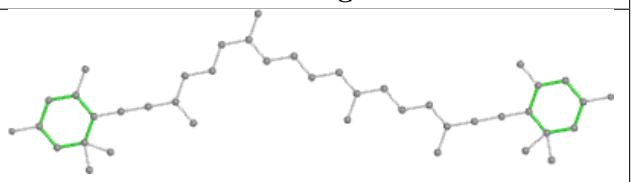

Rings

## Ligand II0 a 317

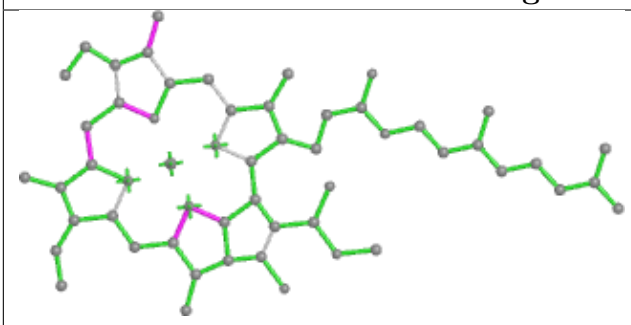

Bond lengths

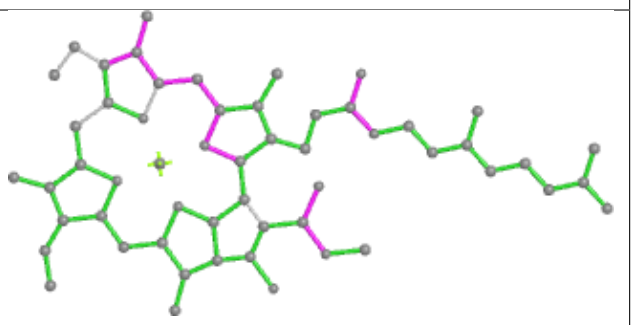

Bond angles

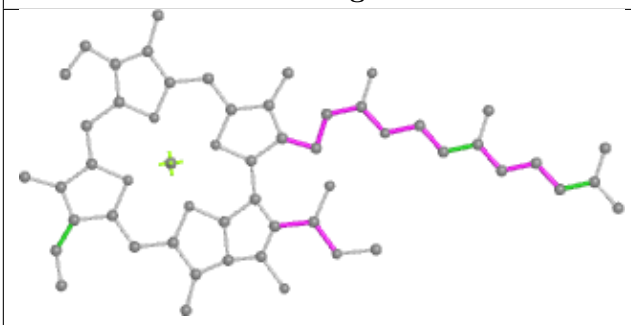

Torsions

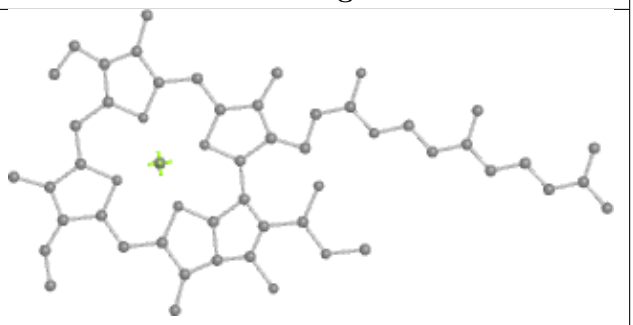

Rings

## Ligand CLA m 610

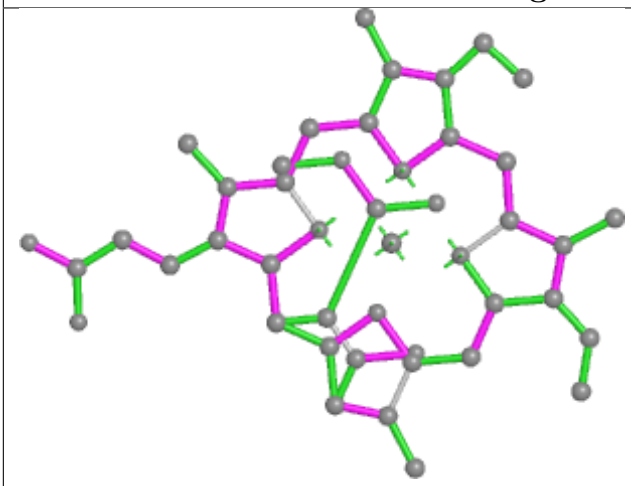

Bond lengths


Bond angles

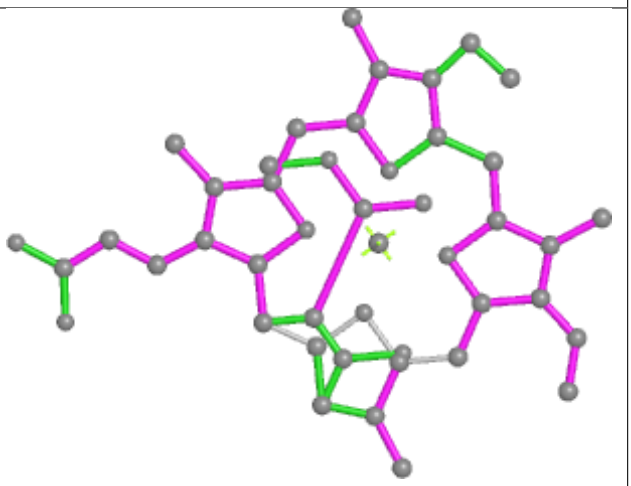

Torsions


Rings

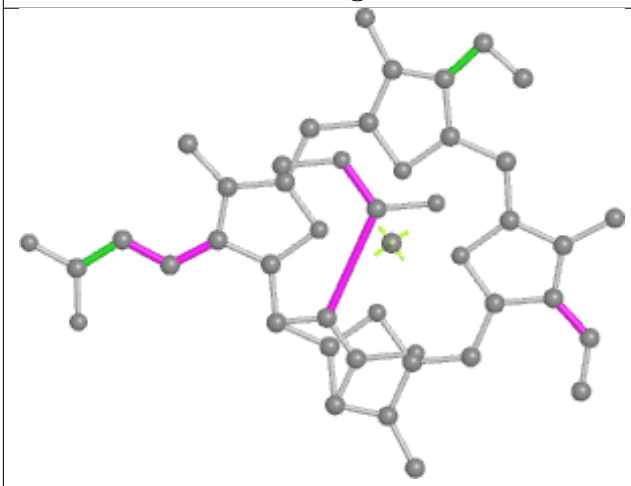
**Ligand KC2 k 611**



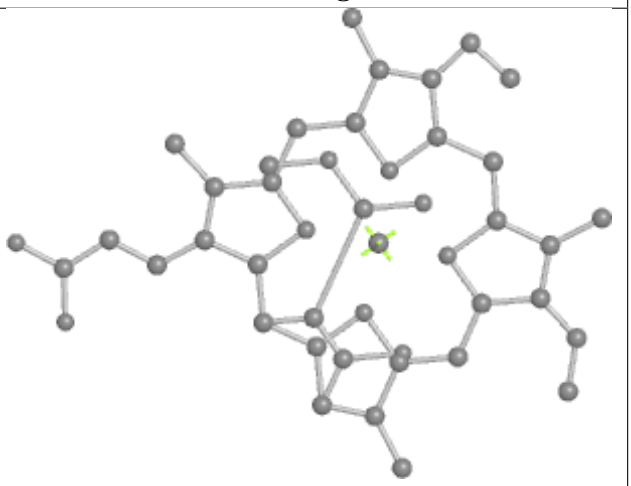
**Bond lengths**



**Bond angles**

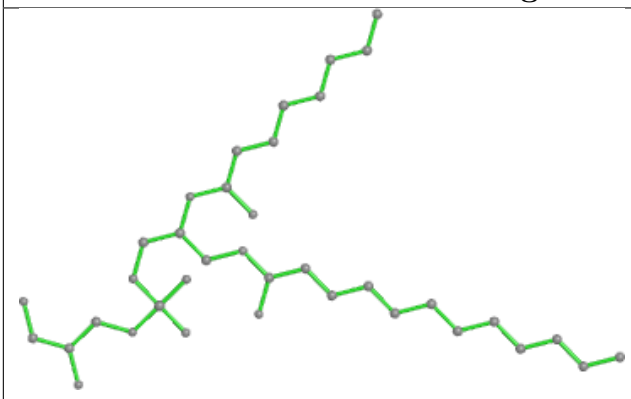


**Torsions**

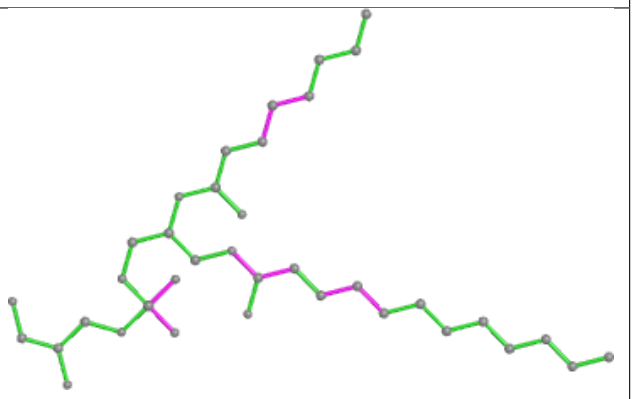


**Rings**

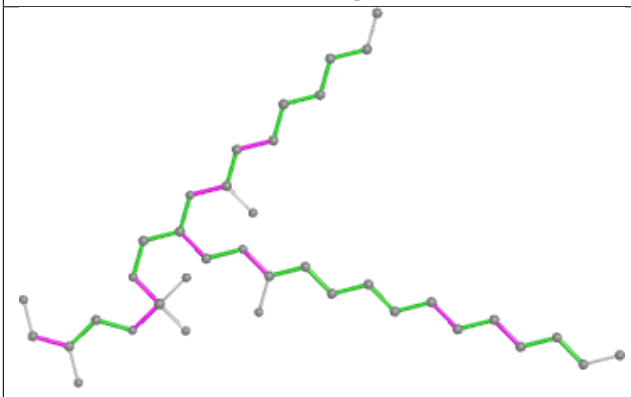
**Ligand LHG m 619**



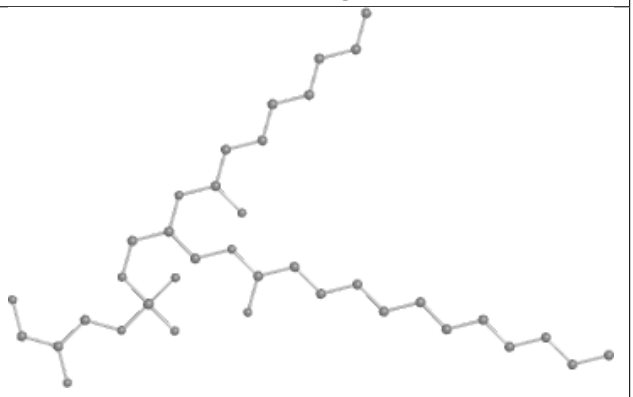
Bond lengths



Bond angles

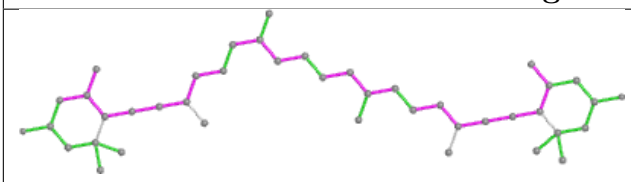


Torsions

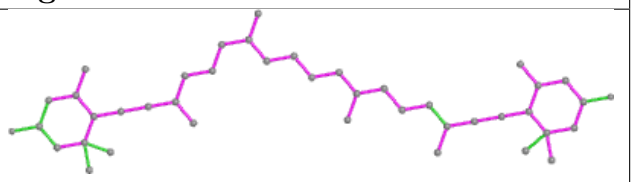


Rings

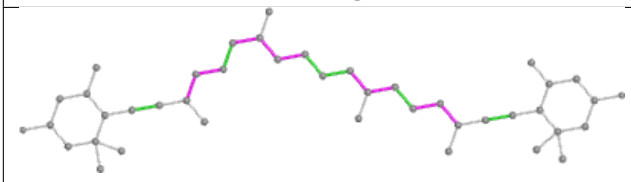
**Ligand II0 g 318**



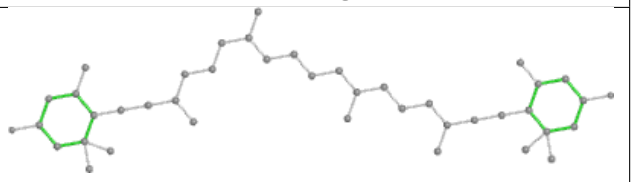
Bond lengths



Bond angles

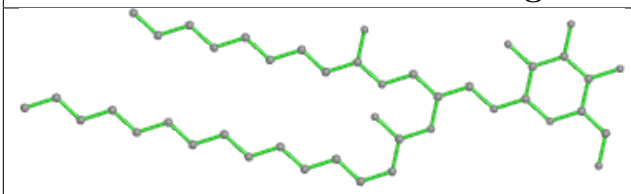


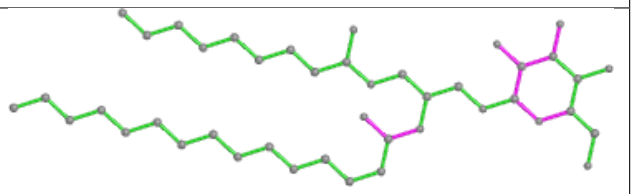
Torsions

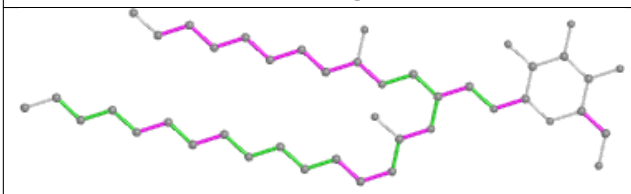


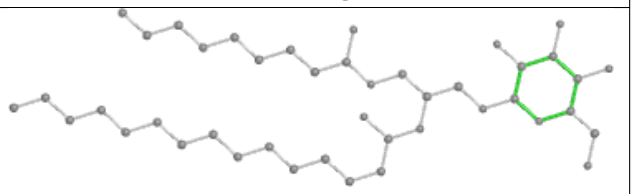
Rings

## Ligand LMG c 318

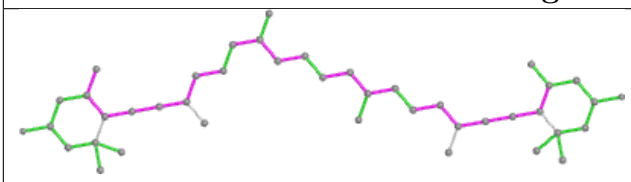

Bond lengths

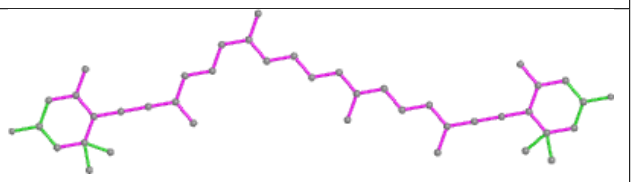

Bond angles

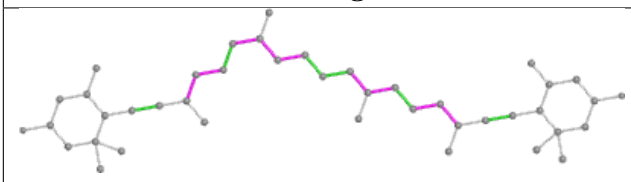

Torsions

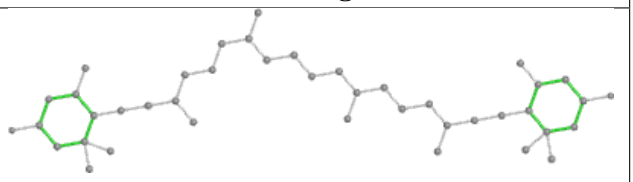

Rings

## Ligand II0 b 314

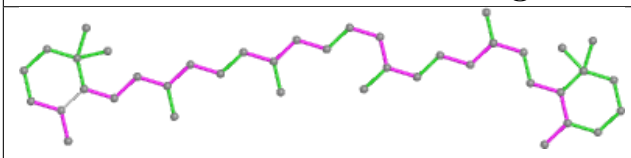

Bond lengths

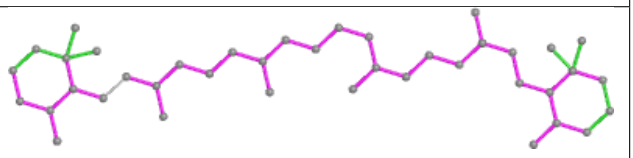

Bond angles

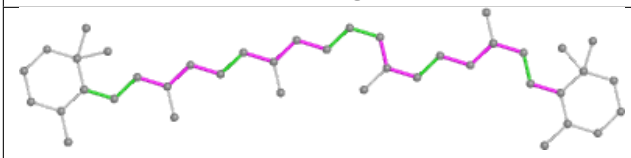

Torsions

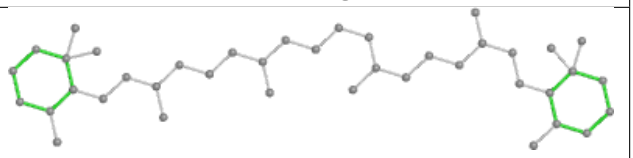

Rings

## Ligand WVN M 101

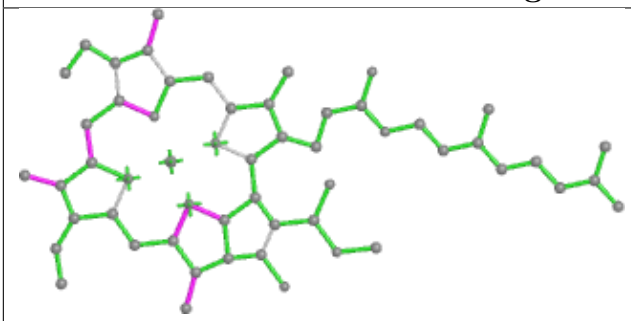

Bond lengths


Bond angles

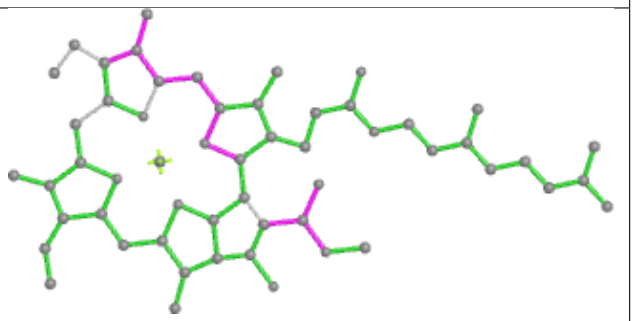

Torsions


Rings

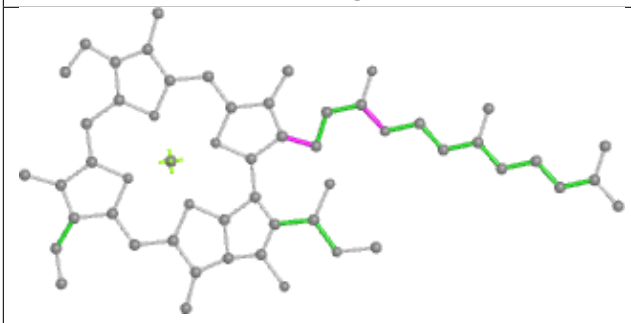
**Ligand CLA B 815**



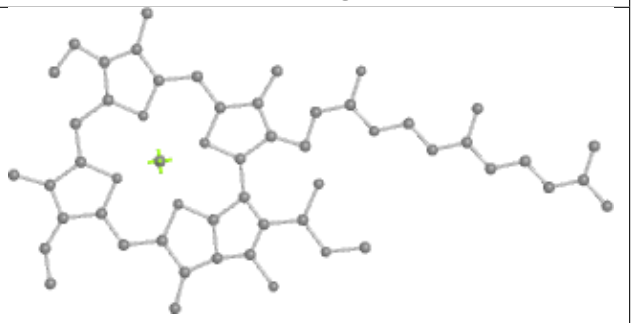
**Bond lengths**



**Bond angles**

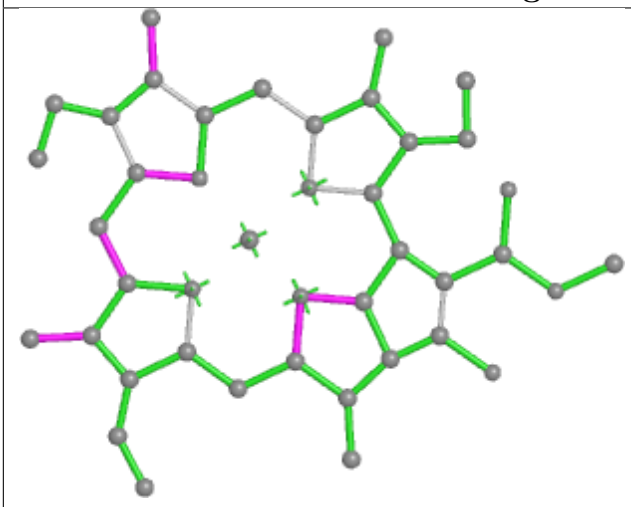


**Torsions**

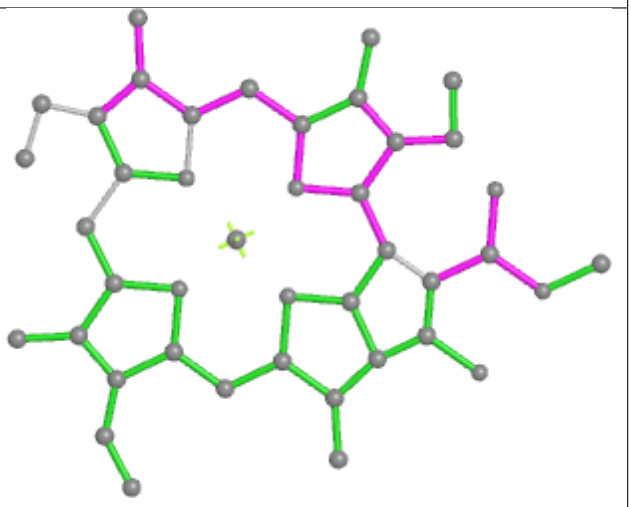


**Rings**

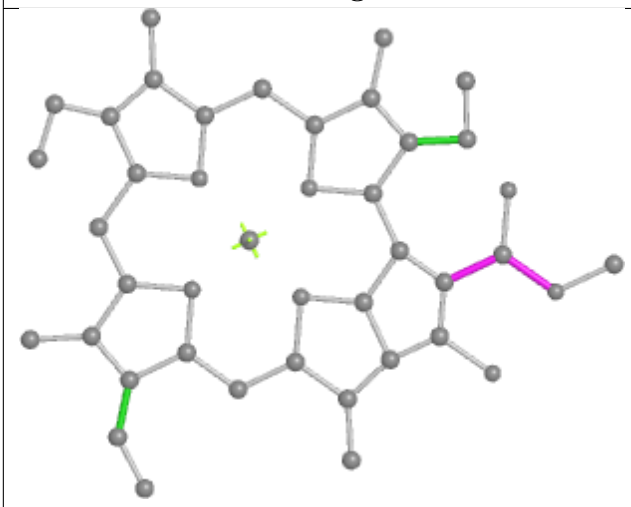
## Ligand CLA K 102



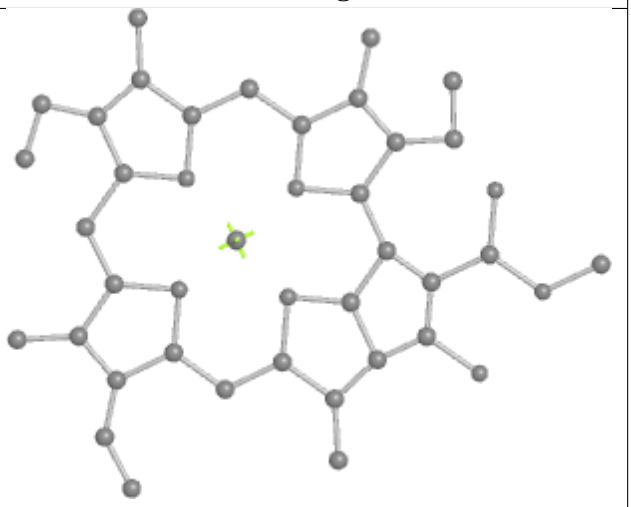
Bond lengths



Bond angles

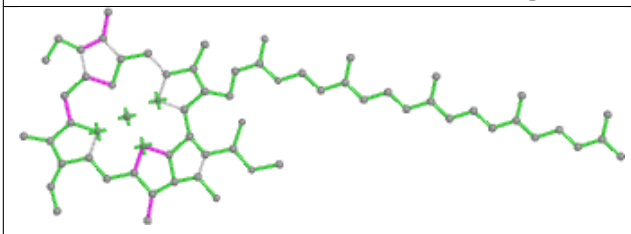


Torsions

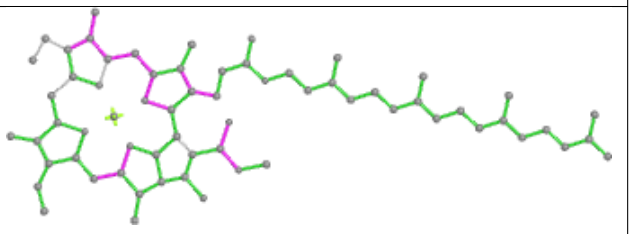


Rings

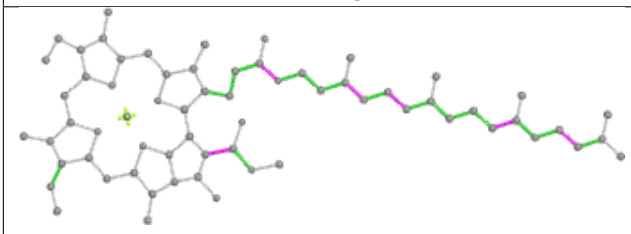
## Ligand CLA A 838



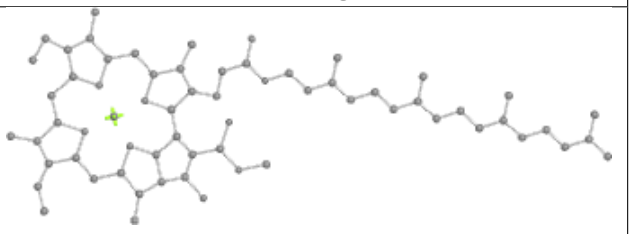
Bond lengths



Bond angles

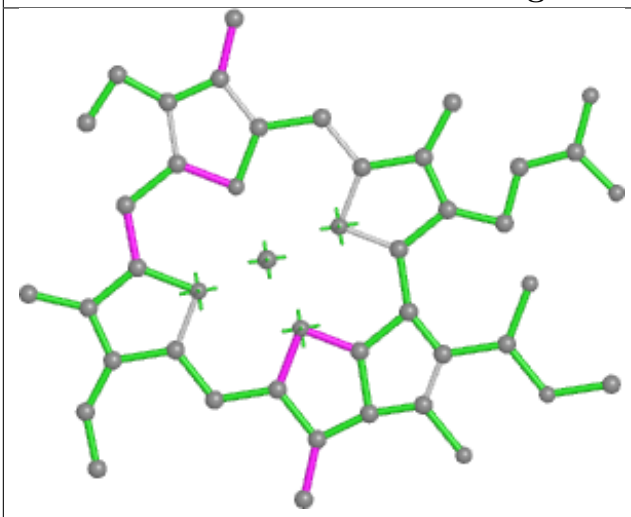


Torsions

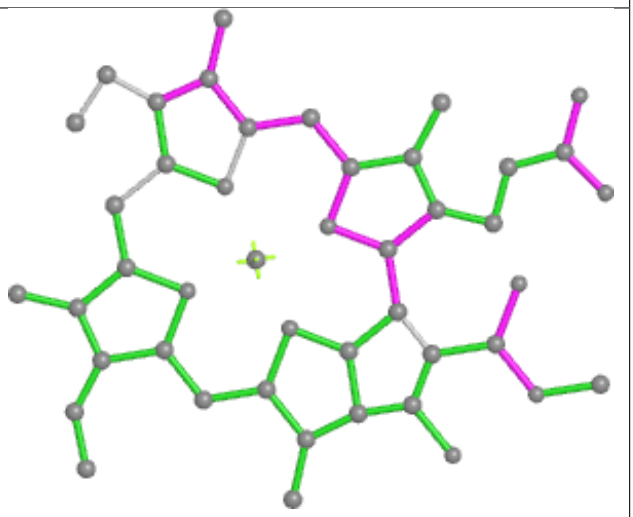


Rings

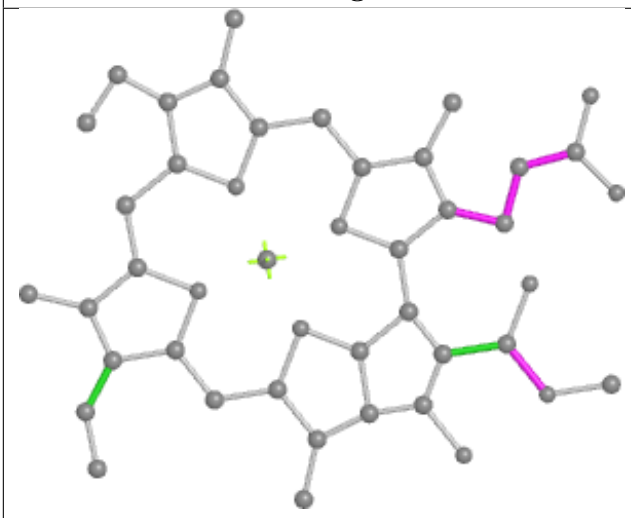
## Ligand CLA d 318



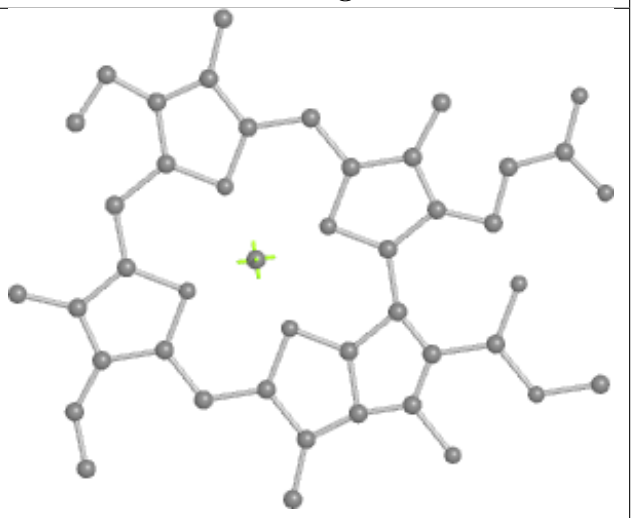
Bond lengths



Bond angles

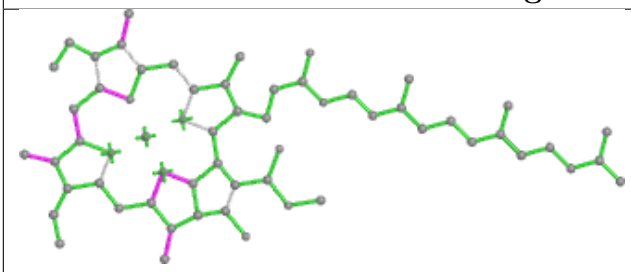


Torsions

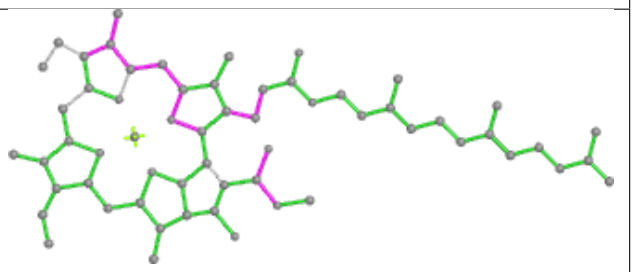


Rings

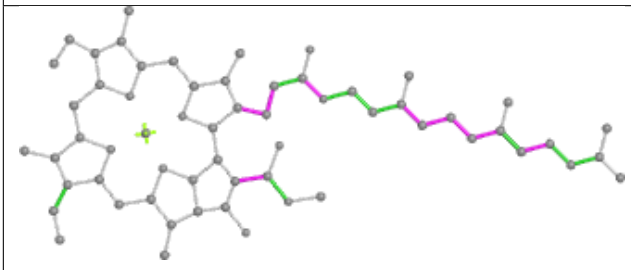
## Ligand CLA B 813



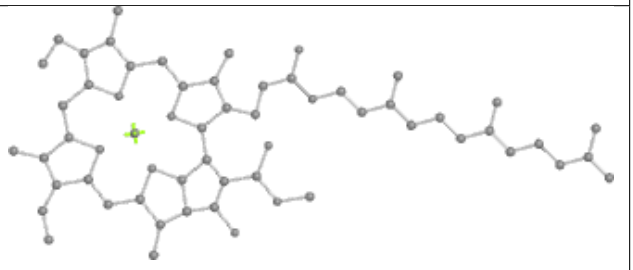
Bond lengths



Bond angles

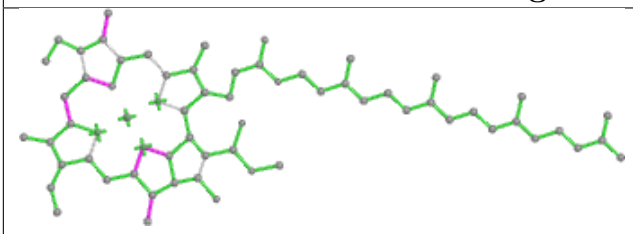


Torsions

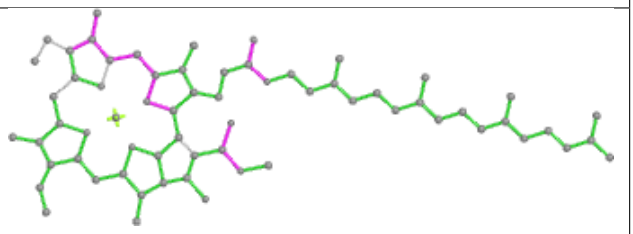


Rings

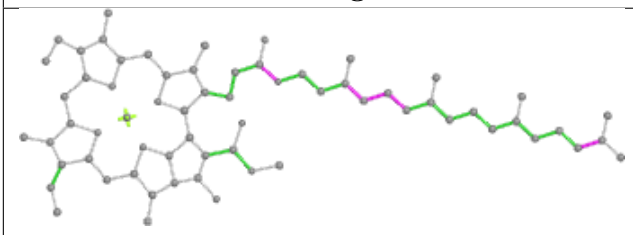
## Ligand CLA e 305



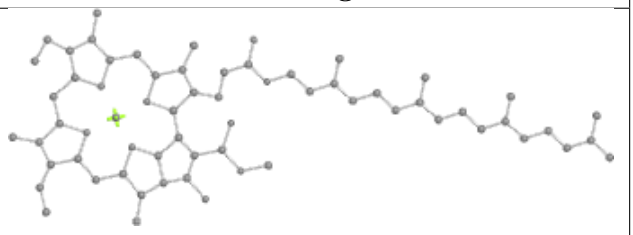
Bond lengths



Bond angles

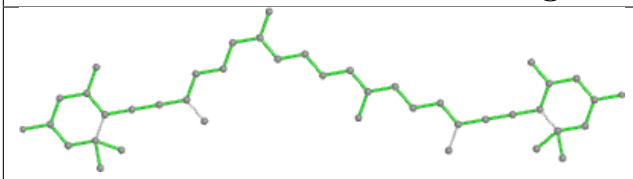


Torsions

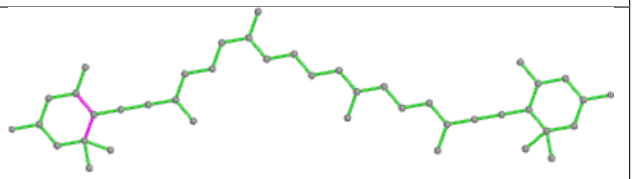


Rings

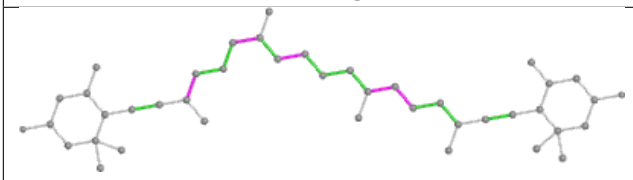
## Ligand II0 d 319



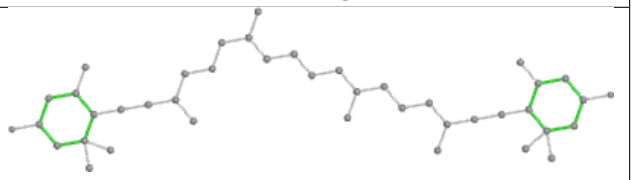
Bond lengths



Bond angles

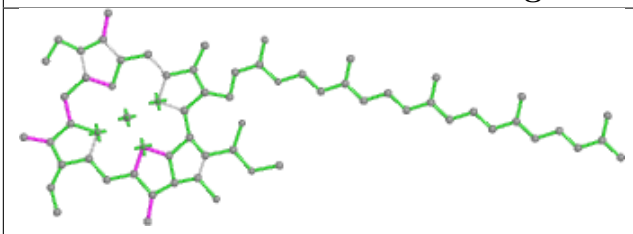


Torsions

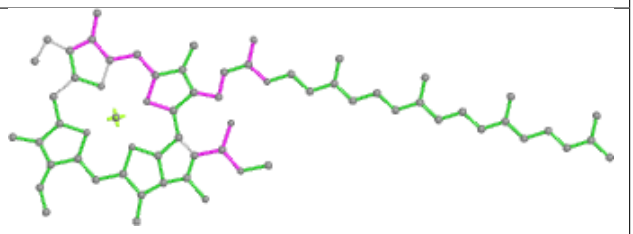


Rings

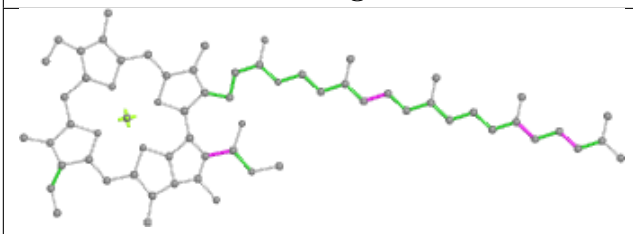
## Ligand CLA B 808



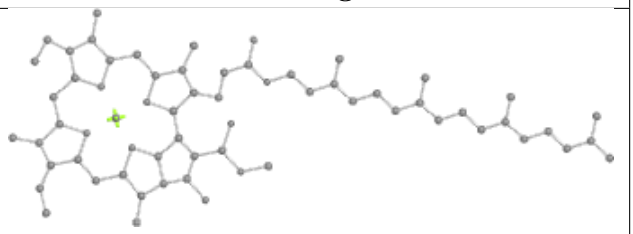
Bond lengths



Bond angles

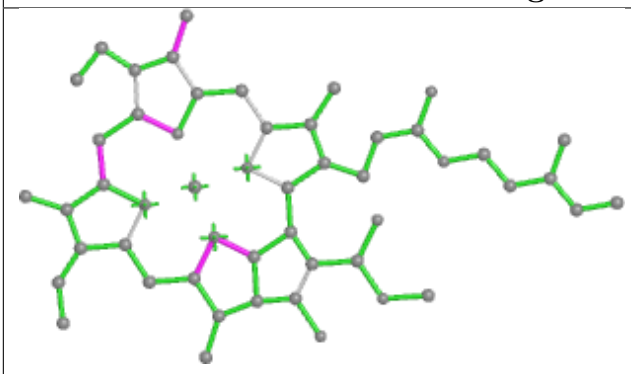


Torsions

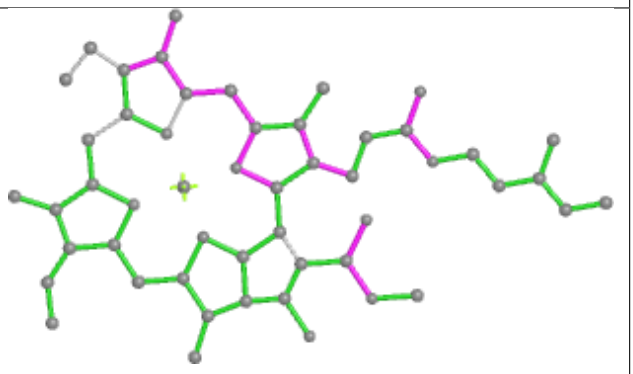


Rings

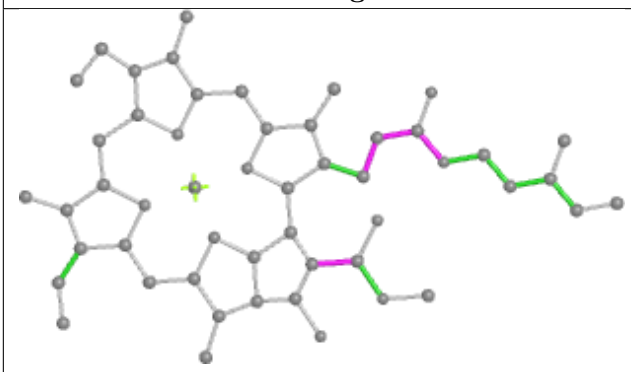
## Ligand CLA d 305



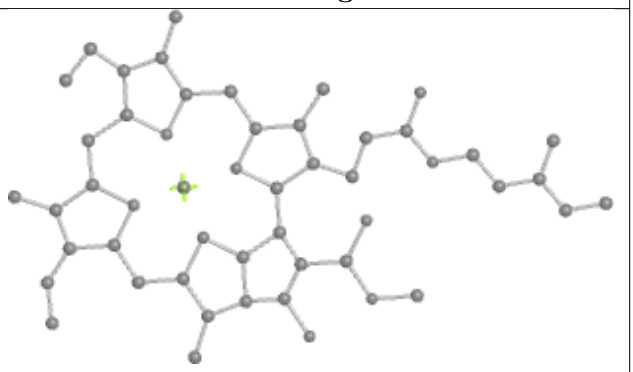
Bond lengths



Bond angles

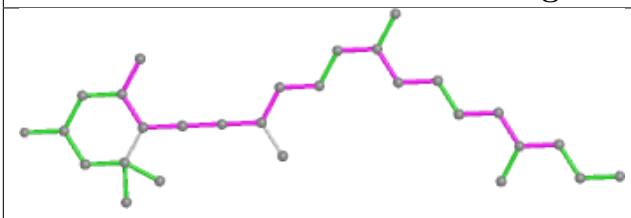


Torsions

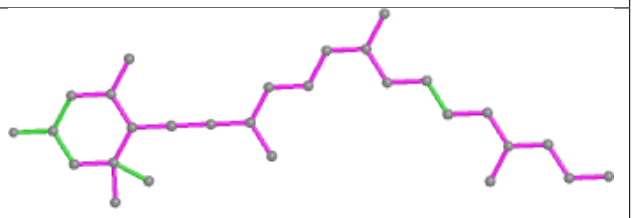


Rings

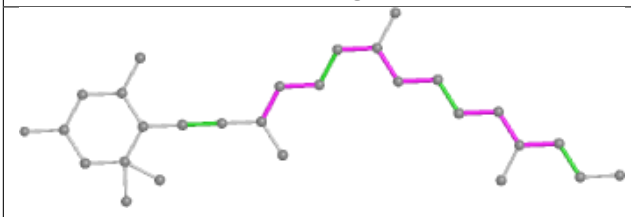
## Ligand II0 h 309



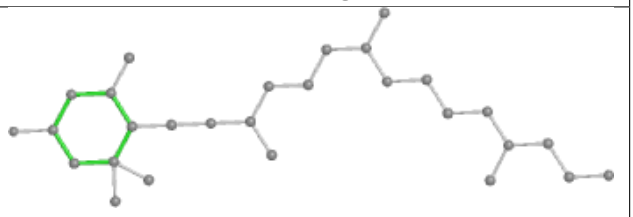
Bond lengths



Bond angles

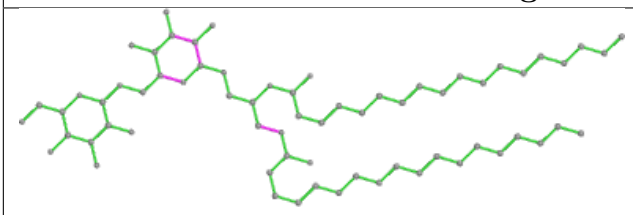


Torsions

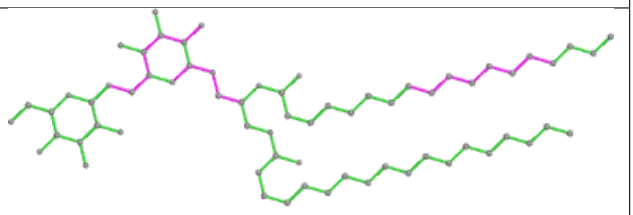


Rings

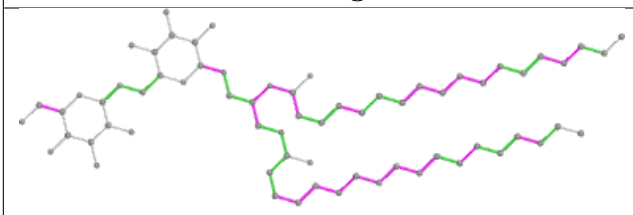
## Ligand DGD B 844



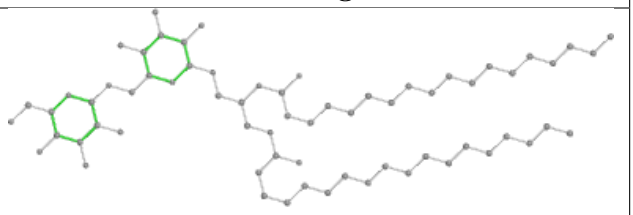
Bond lengths



Bond angles

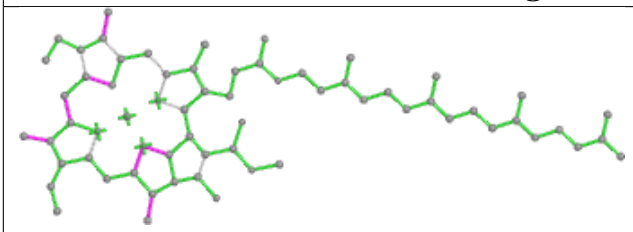


Torsions

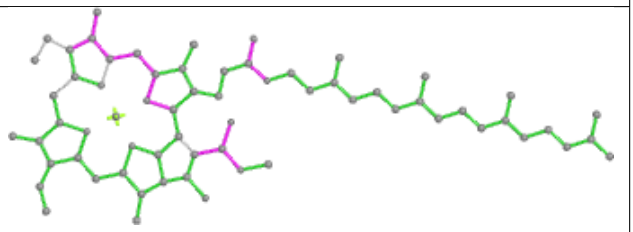


Rings

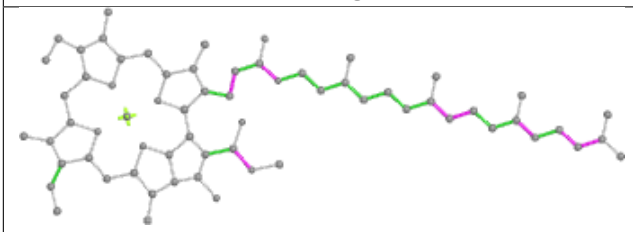
## Ligand CLA B 838



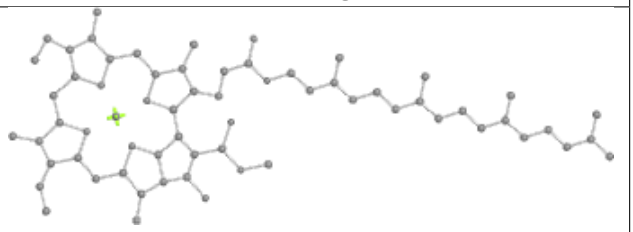
Bond lengths



Bond angles

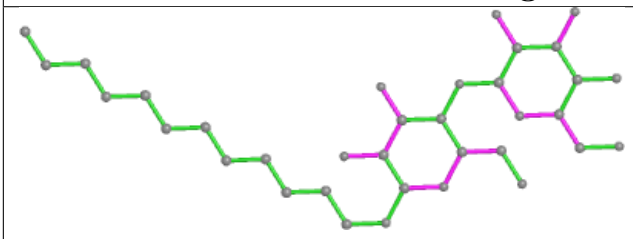


Torsions

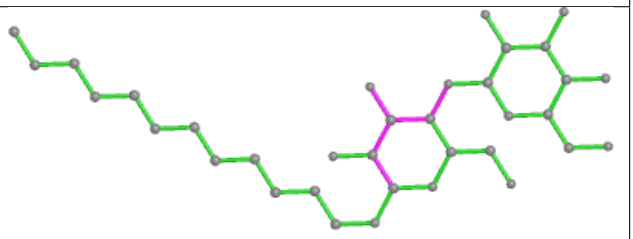


Rings

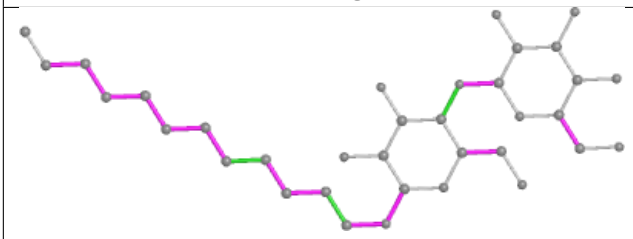
## Ligand LMU A 849



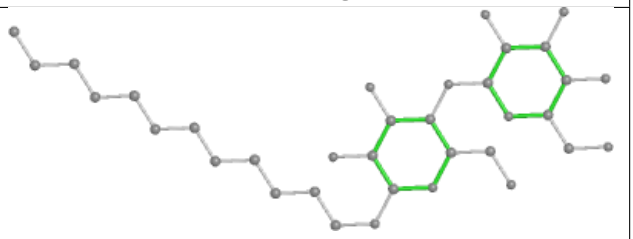
Bond lengths



Bond angles

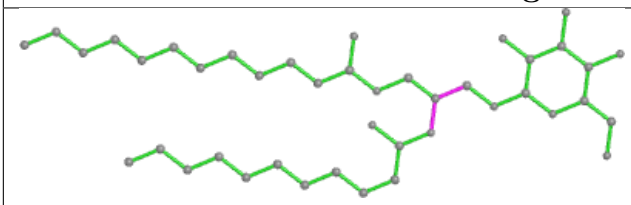


Torsions

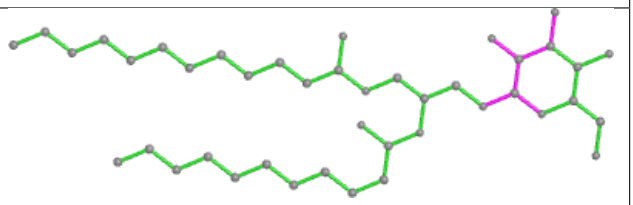


Rings

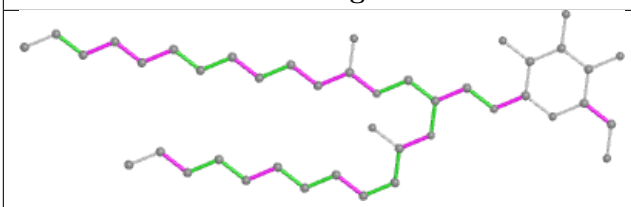
## Ligand LMG b 319



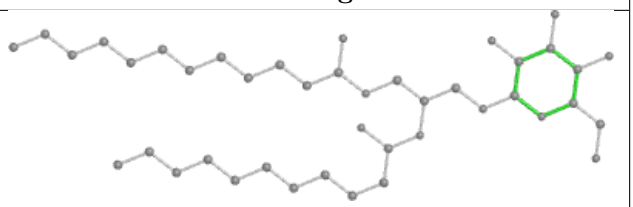
Bond lengths



Bond angles

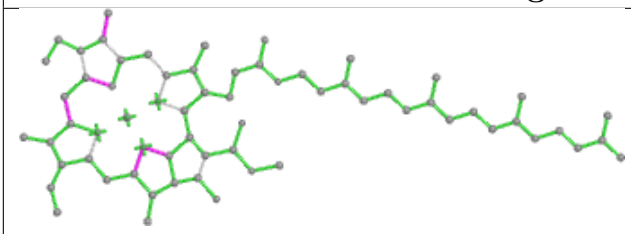


Torsions

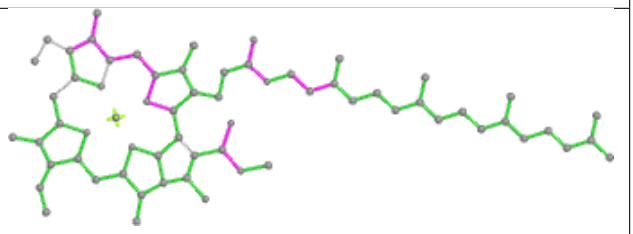


Rings

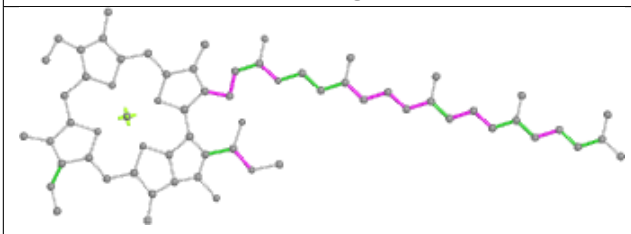
## Ligand CLA n 608



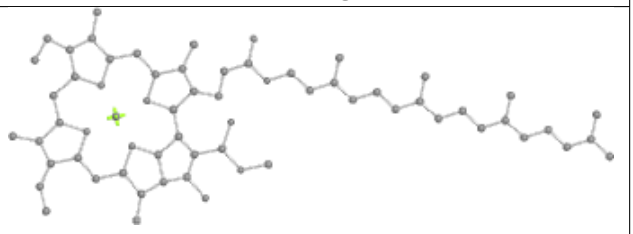
Bond lengths



Bond angles

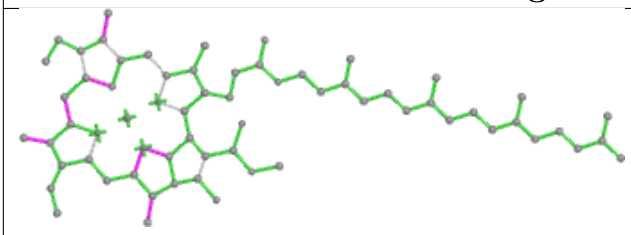


Torsions

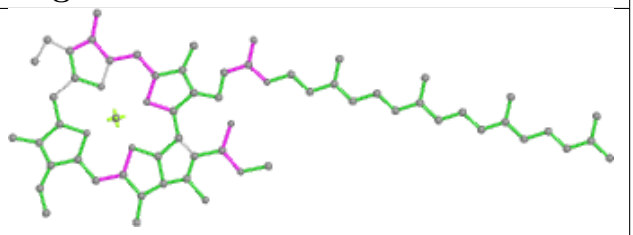


Rings

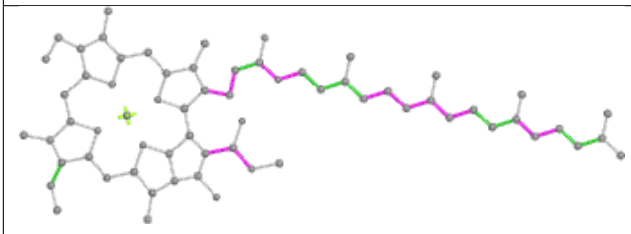
## Ligand CLA g 311



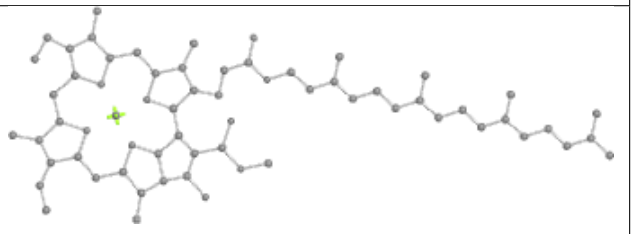
Bond lengths



Bond angles

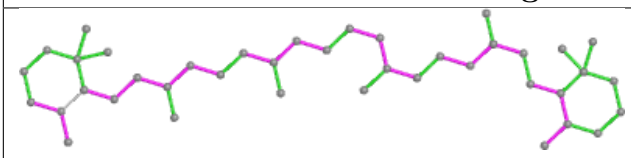


Torsions

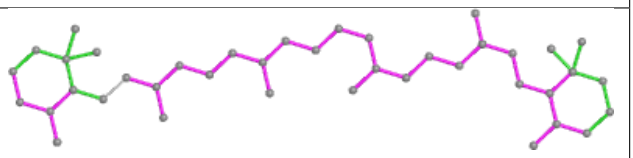


Rings

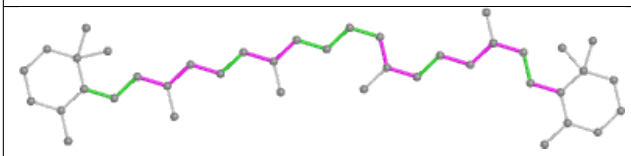
**Ligand WVN s 405**



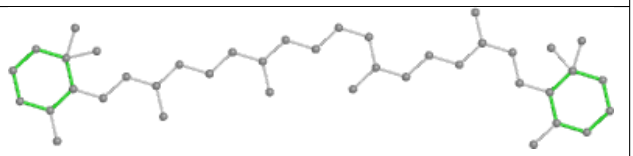
Bond lengths



Bond angles

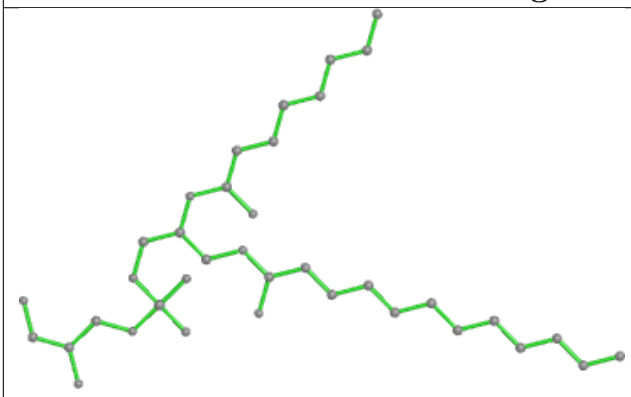


Torsions

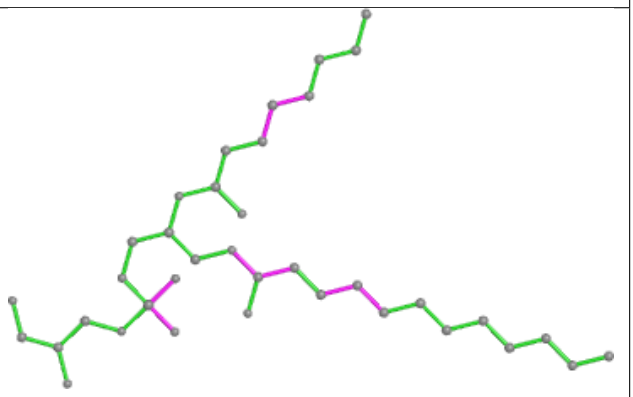


Rings

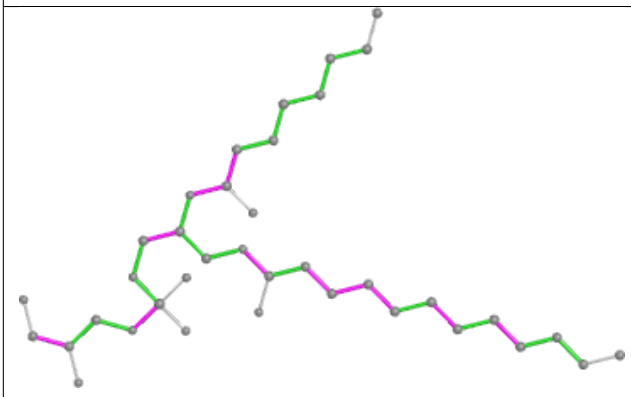
**Ligand LHG i 317**



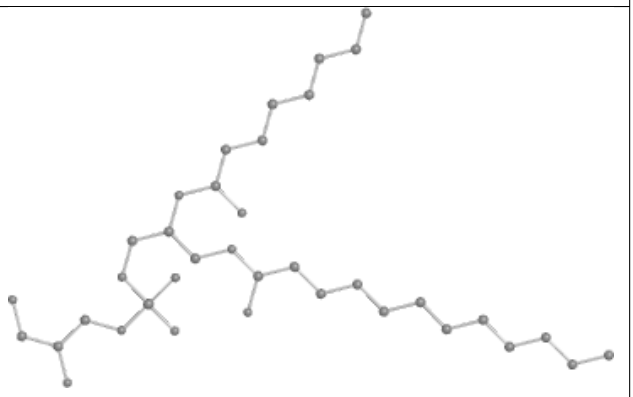
Bond lengths



Bond angles

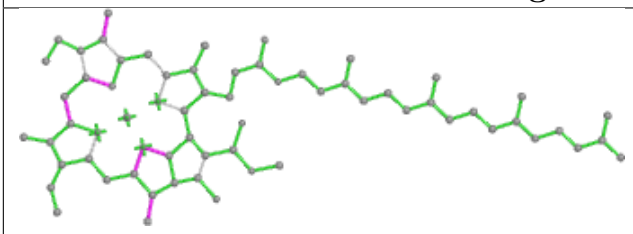


Torsions

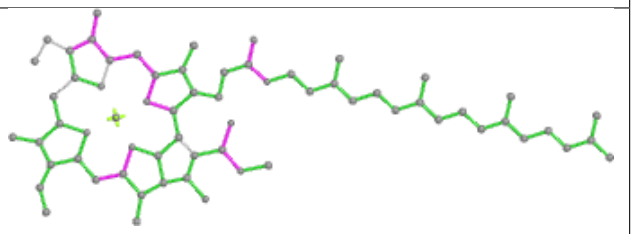


Rings

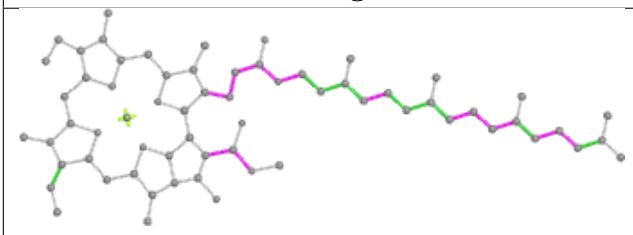
**Ligand CLA e 302**



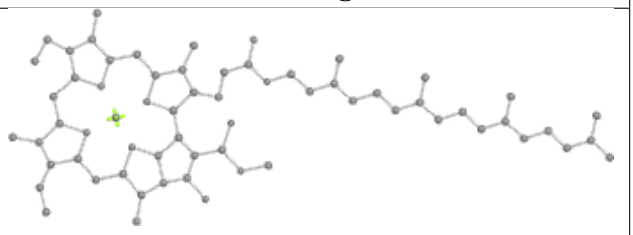
Bond lengths



Bond angles



Torsions



Rings

## 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.

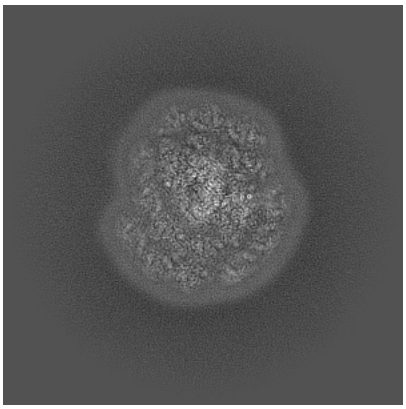
# 6 Map visualisation

This section contains visualisations of the EMDB entry EMD-62656. These allow visual inspection of the internal detail of the map and identification of artifacts.

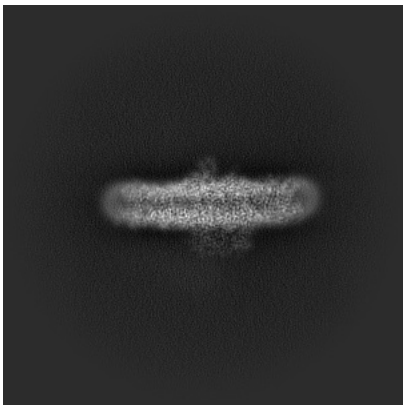
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

## 6.1 Orthogonal projections

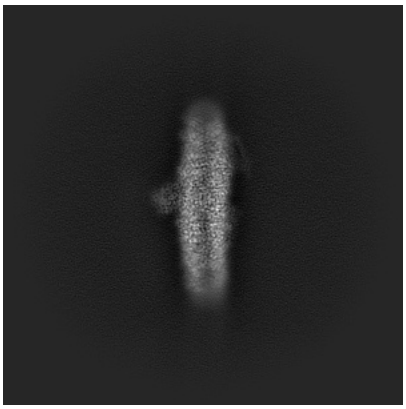
### 6.1.1 Primary map



X

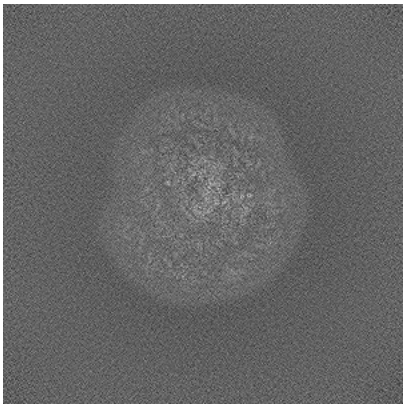


Y

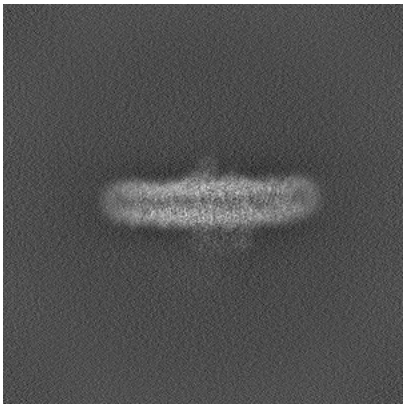


Z

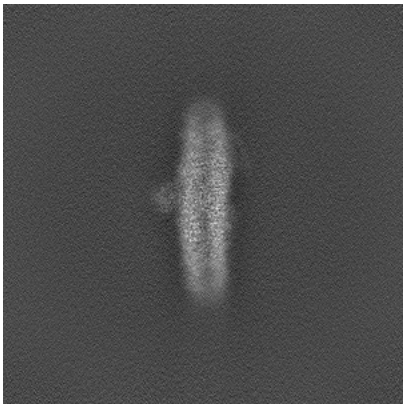
### 6.1.2 Raw map



X



Y

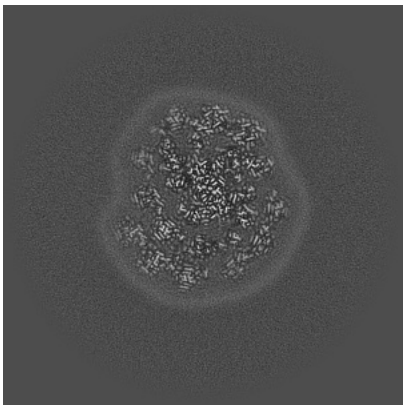


Z

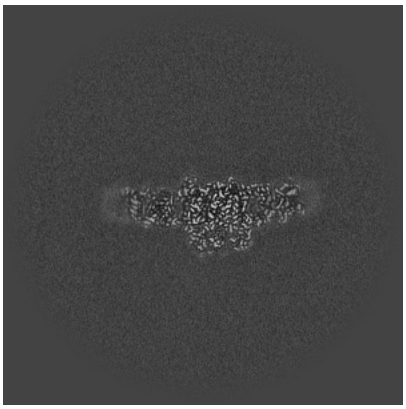
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices (i)

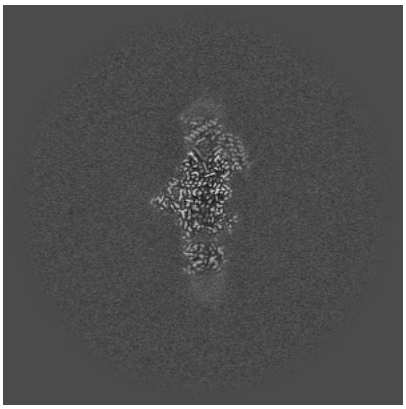
### 6.2.1 Primary map



X Index: 300

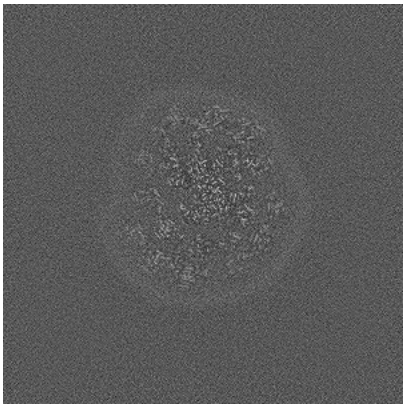


Y Index: 300

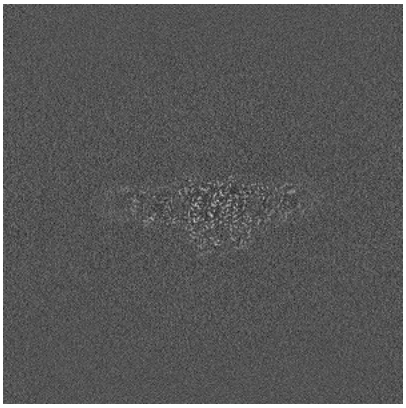


Z Index: 300

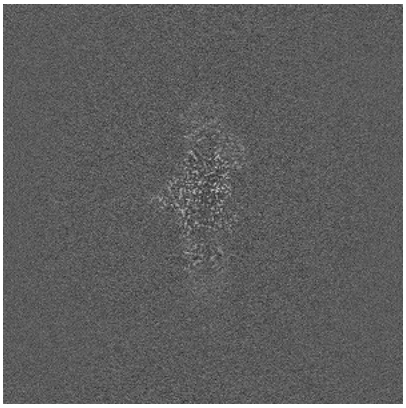
### 6.2.2 Raw map



X Index: 300



Y Index: 300

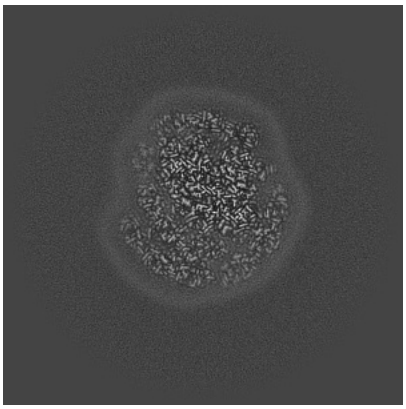


Z Index: 300

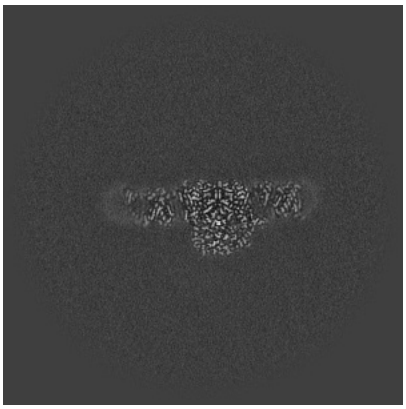
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices (i)

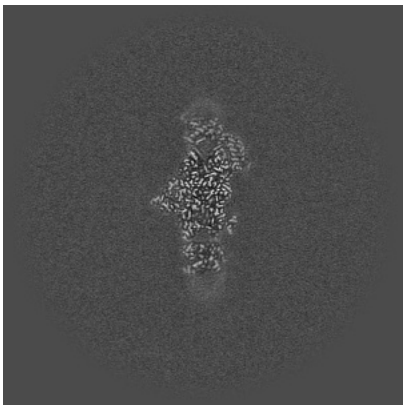
### 6.3.1 Primary map



X Index: 315

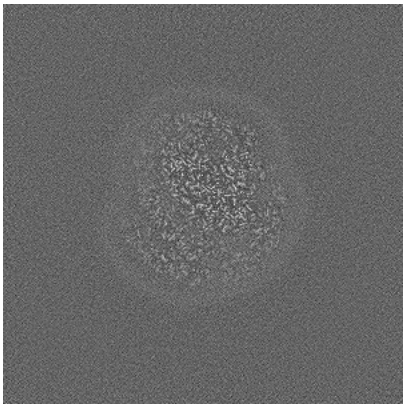


Y Index: 308

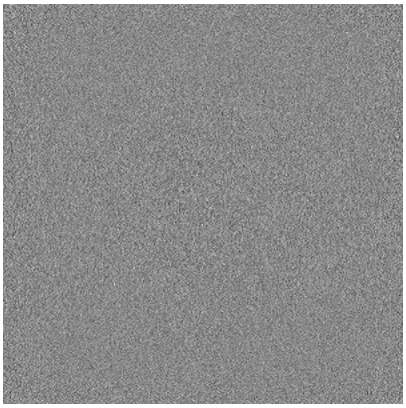


Z Index: 301

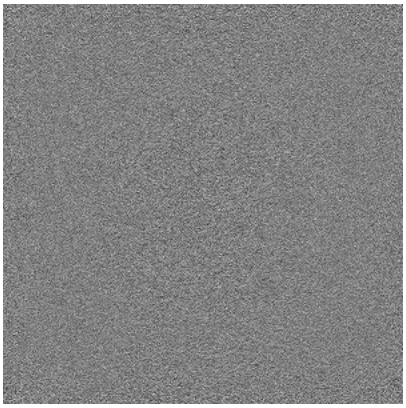
### 6.3.2 Raw map



X Index: 315



Y Index: 0

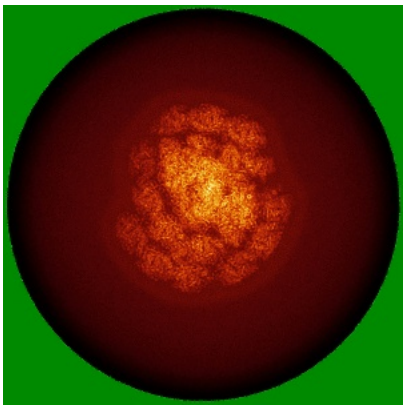


Z Index: 0

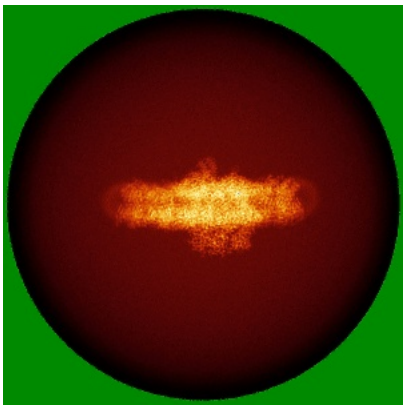
The images above show the largest variance slices of the map in three orthogonal directions.

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

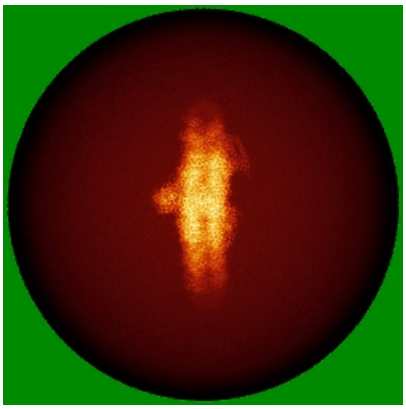
### 6.4.1 Primary map



X

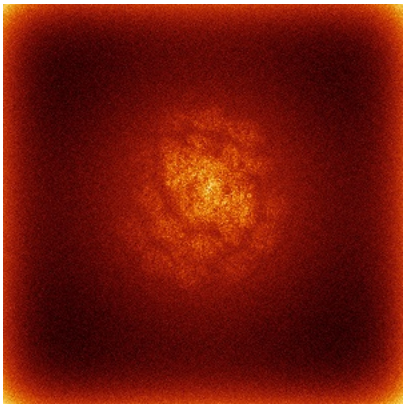


Y

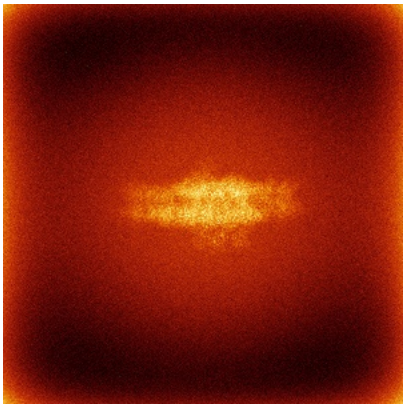


Z

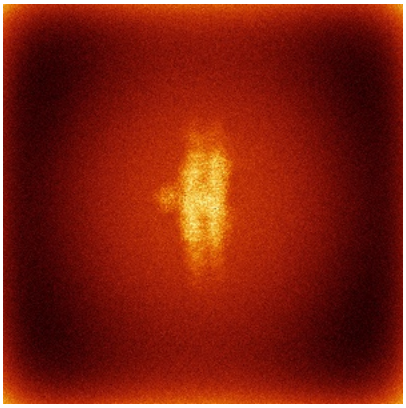
### 6.4.2 Raw map



X



Y

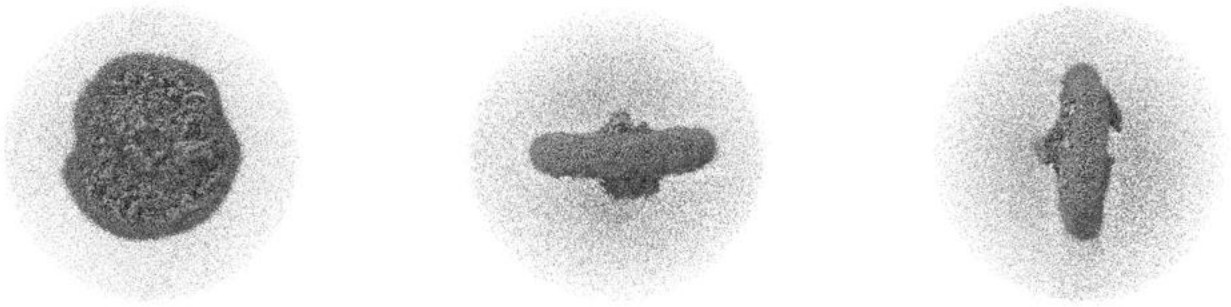


Z

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)

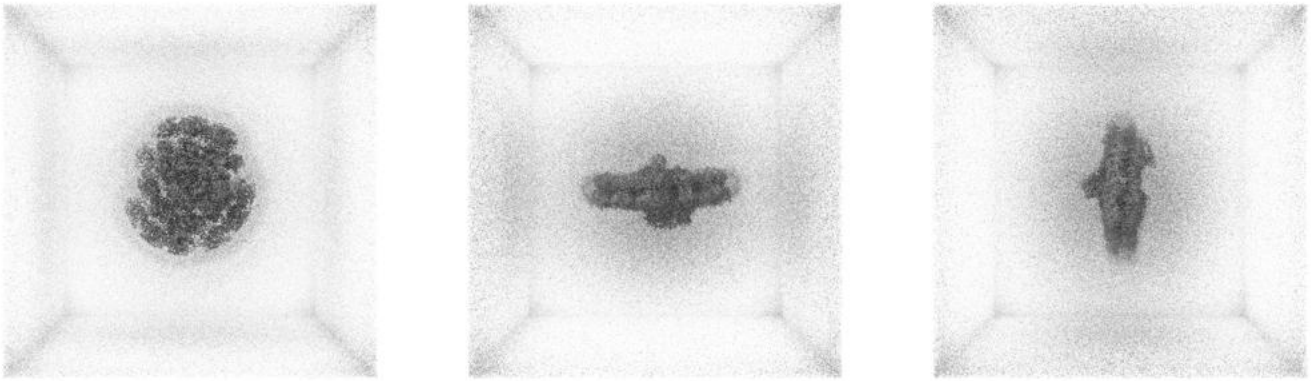
### 6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.032. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

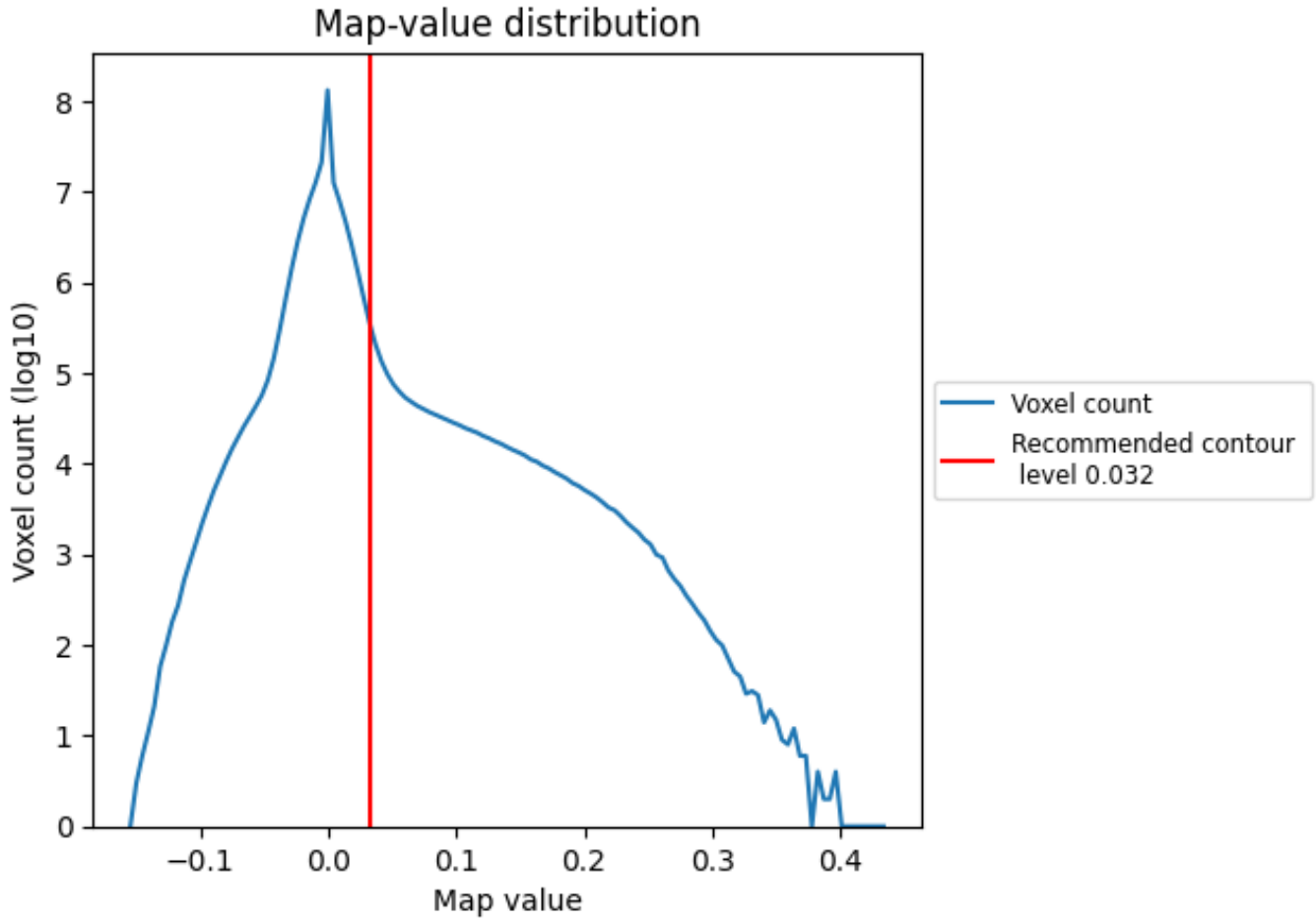
## 6.6 Mask visualisation (i)

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

# 7 Map analysis

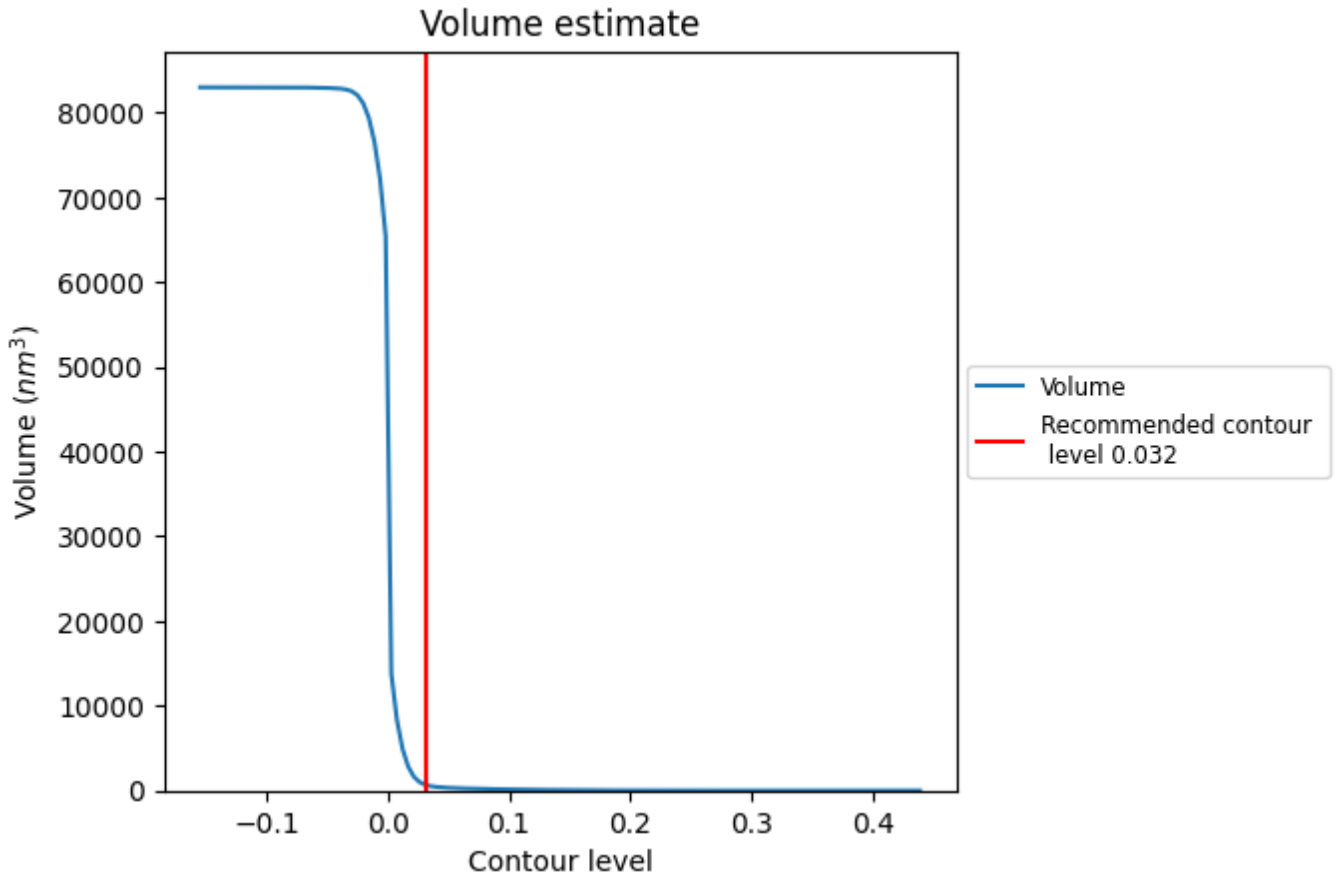
This section contains the results of statistical analysis of the map.

## 7.1 Map-value distribution




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.

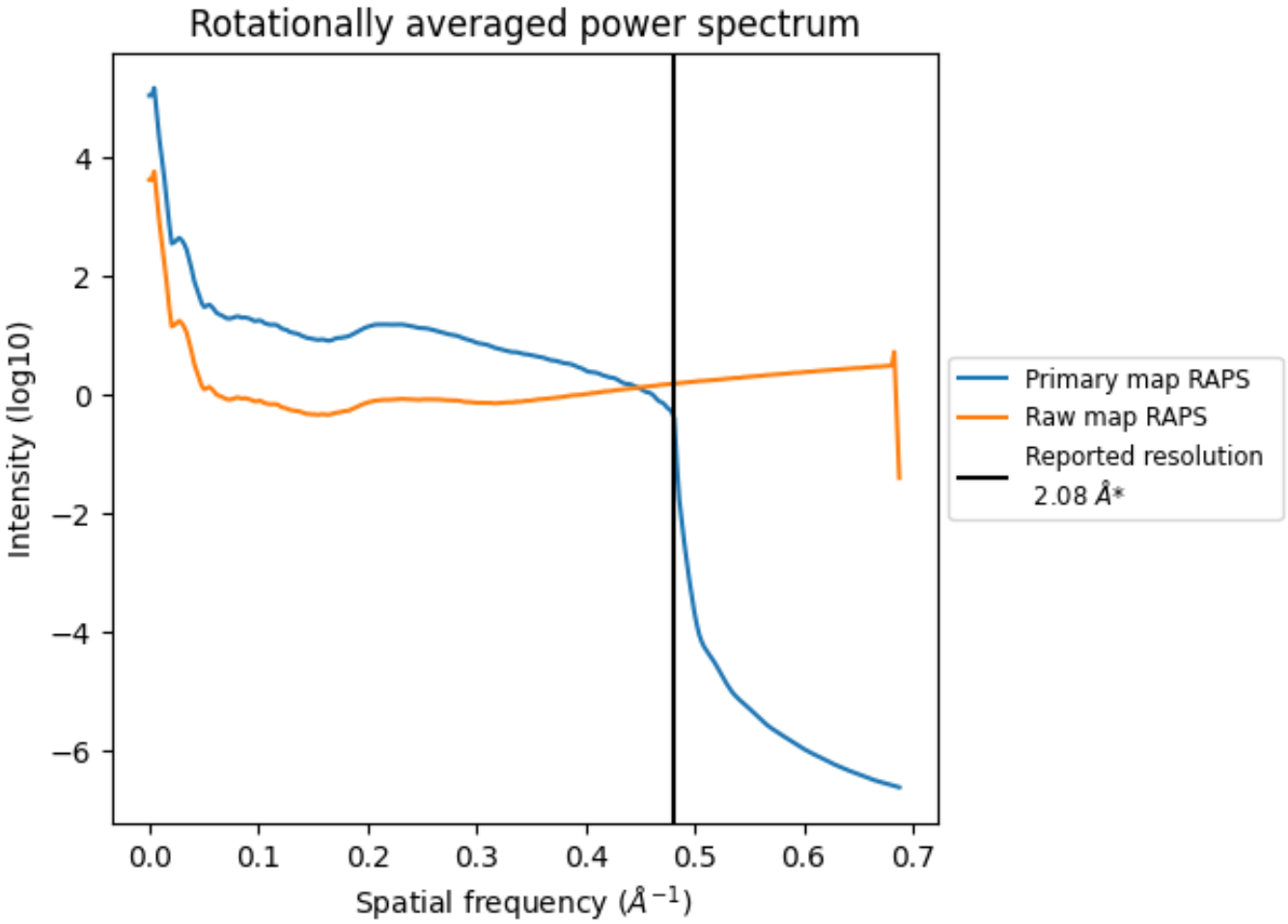
## 7.2 Volume estimate




The volume at the recommended contour level is 646 $nm^3$; this corresponds to an approximate mass of 583 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)

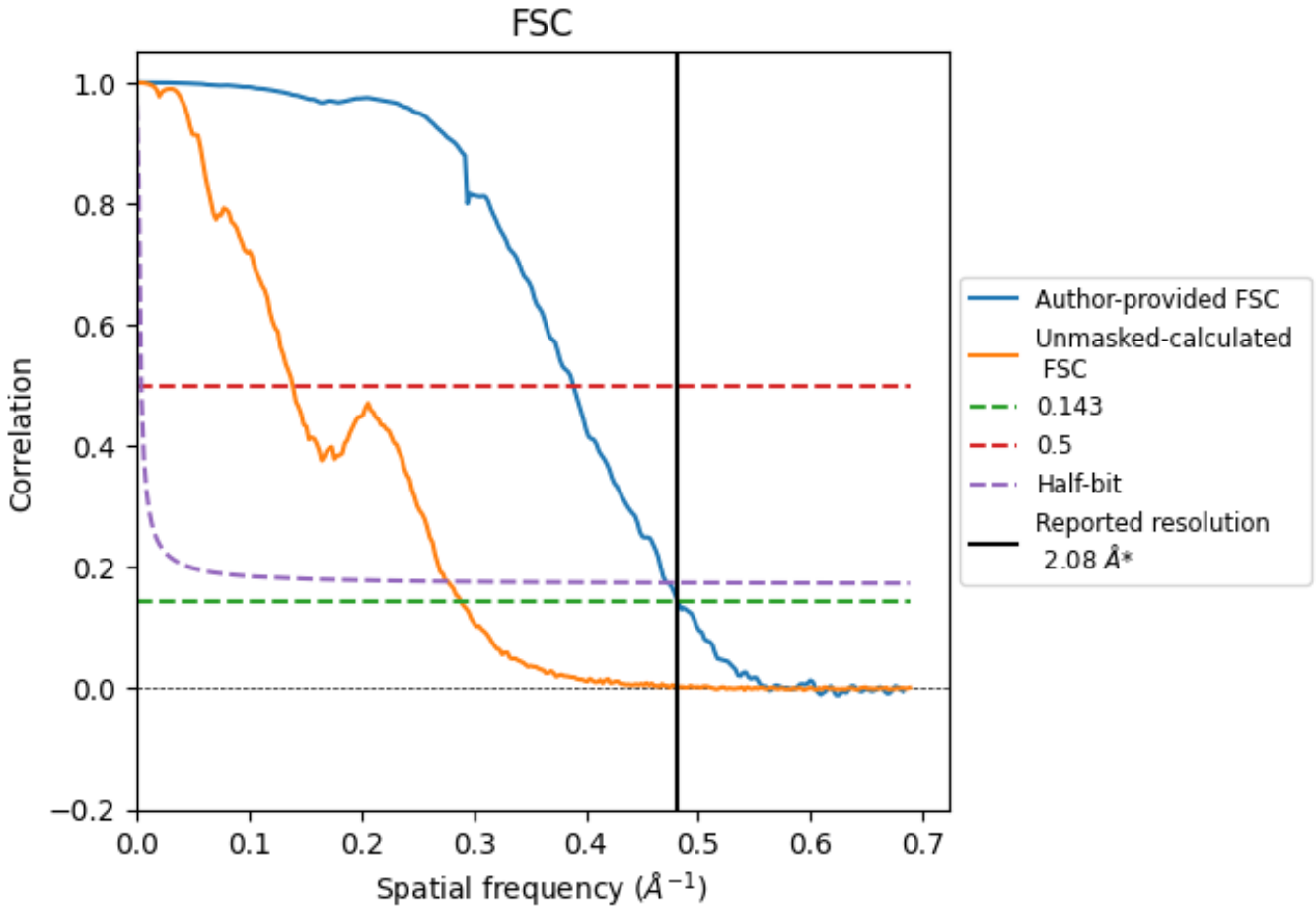



*Reported resolution corresponds to spatial frequency of 0.481 Å$^{-1}$

# 8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

## 8.1 FSC




*Reported resolution corresponds to spatial frequency of 0.481 $Å^{-1}$

## 8.2 Resolution estimates (i)

| Resolution estimate (Å) | Estimation criterion (FSC cut-off) | | |
|---|---|---|---|
| | 0.143 | 0.5 | Half-bit |
| Reported by author | 2.08 | - | - |
| Author-provided FSC curve | 2.08 | 2.57 | 2.12 |
| Unmasked-calculated* | 3.46 | 7.18 | 3.61 |

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.46 differs from the reported value 2.08 by more than 10 %

# 9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-62656 and PDB model 9KZ9. Per-residue inclusion information can be found in section 3 on page 43.

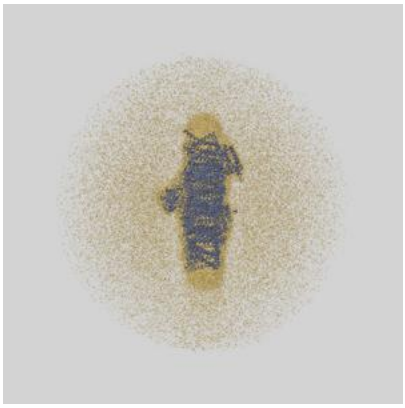
## 9.1 Map-model overlay



X



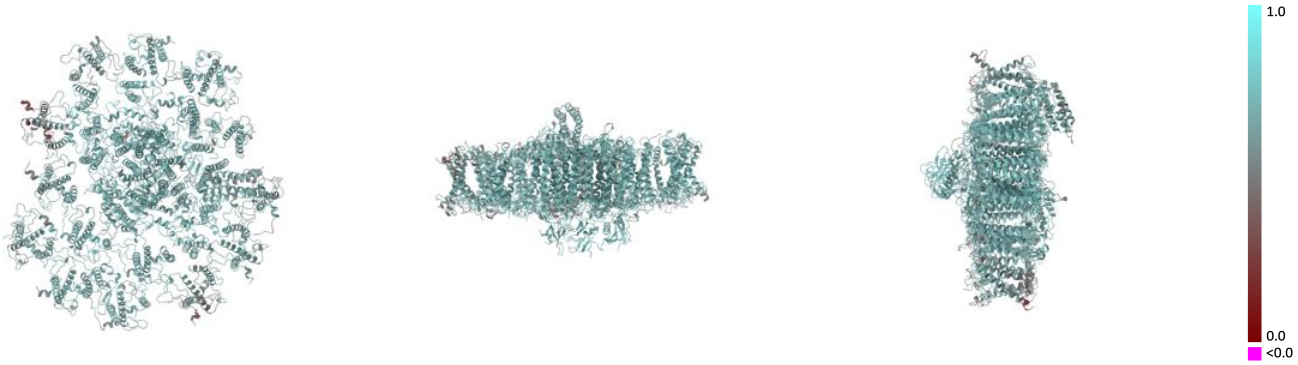
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.032 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.

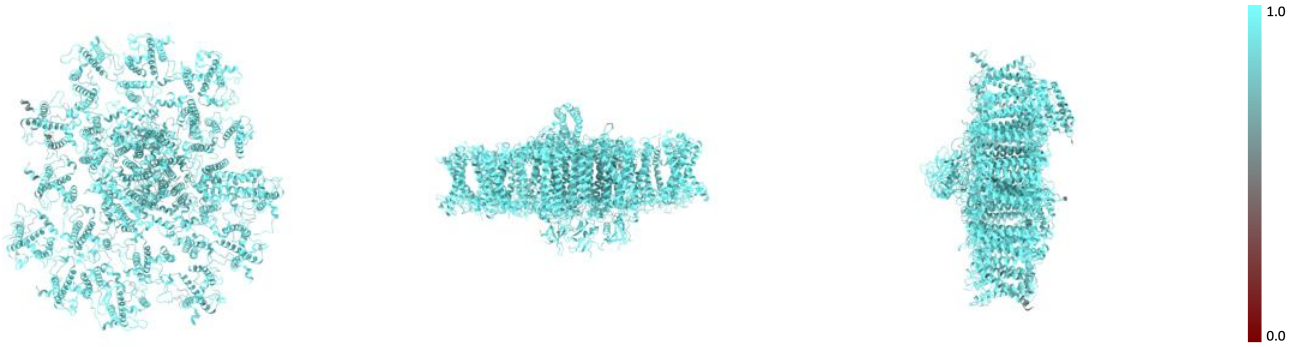
## 9.2 Q-score mapped to coordinate model (i)




X Y Z

The images above show the model with each residue coloured according 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.

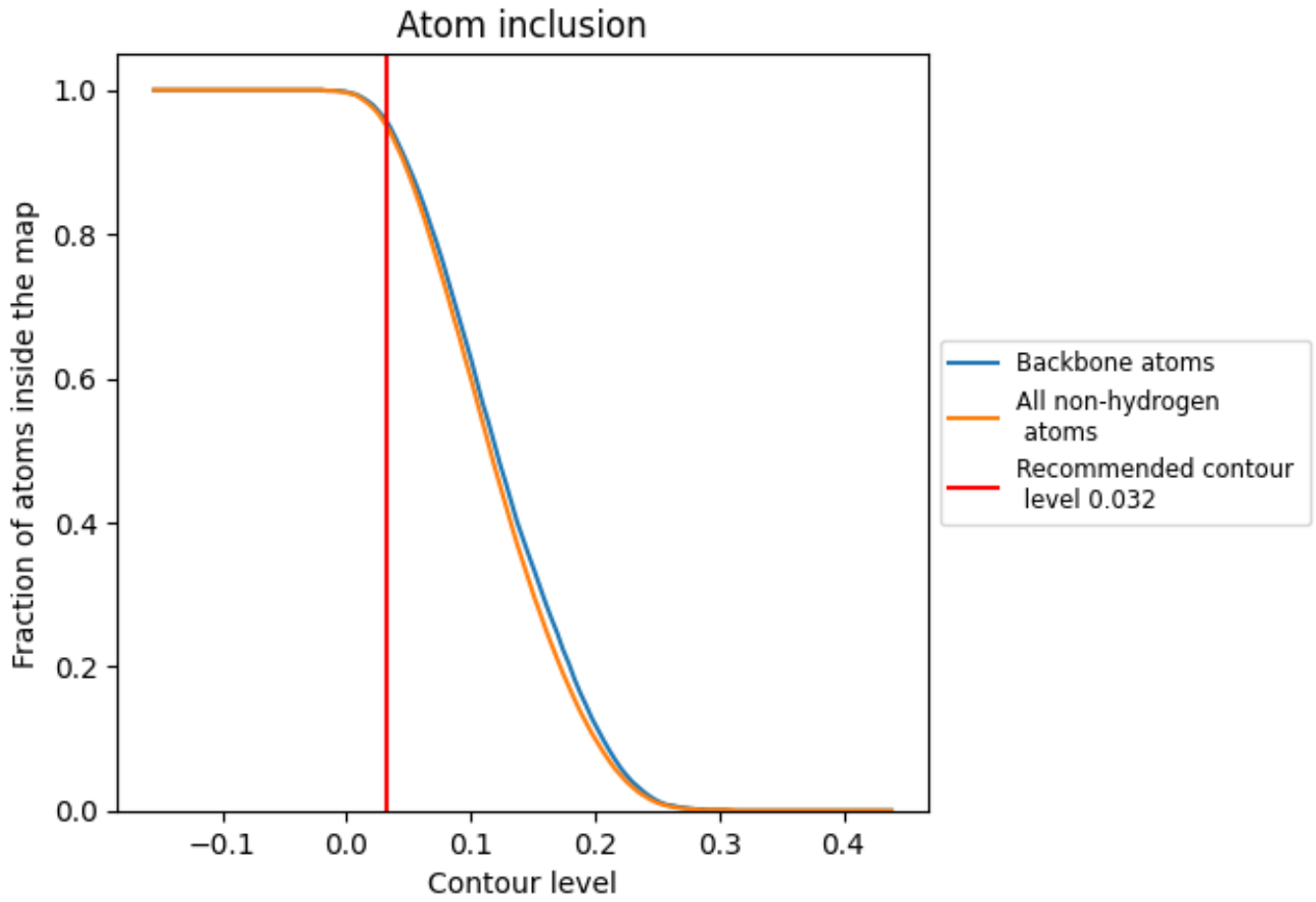
## 9.3 Atom inclusion mapped to coordinate model (i)




X Y Z

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 (0.032).

## 9.4 Atom inclusion (i)




At the recommended contour level, 96% of all backbone atoms, 95% 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 (0.032) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion | Q-score |
|---|---|---|
| All | 0.9510 | 0.6450 |
| A | 0.9820 | 0.6990 |
| B | 0.9830 | 0.7020 |
| C | 0.9970 | 0.7120 |
| D | 0.9870 | 0.6910 |
| E | 0.9680 | 0.6680 |
| F | 0.9680 | 0.6800 |
| I | 0.9860 | 0.6850 |
| J | 0.9720 | 0.6720 |
| K | 0.9610 | 0.6620 |
| L | 0.9650 | 0.6740 |
| M | 0.9550 | 0.6570 |
| O | 0.9670 | 0.6720 |
| Q | 0.9120 | 0.6040 |
| R | 0.9710 | 0.6650 |
| a | 0.9690 | 0.6670 |
| b | 0.9690 | 0.6700 |
| c | 0.9210 | 0.6110 |
| d | 0.8310 | 0.5040 |
| e | 0.9040 | 0.5680 |
| f | 0.9540 | 0.6410 |
| g | 0.9500 | 0.6330 |
| h | 0.9470 | 0.6400 |
| i | 0.9080 | 0.5650 |
| j | 0.9220 | 0.6080 |
| k | 0.8970 | 0.5460 |
| l | 0.9540 | 0.6250 |
| m | 0.9390 | 0.6290 |
| n | 0.8970 | 0.5760 |
| s | 0.9520 | 0.6460 |

