Full wwPDB EM Validation Report ⓘ

Nov 21, 2022 – 11:32 PM JST

PDB ID	:	7DR0
EMDB ID	:	EMD-30820
Title	:	Structure of Wild-type PSI monomer1 from Cyanophora paradoxa
Authors	:	Kato, K.; Nagao, R.; Akita, F.; Miyazaki, N.; Shen, J.R.
Deposited on	:	2020-12-25
Resolution	:	3.30 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:

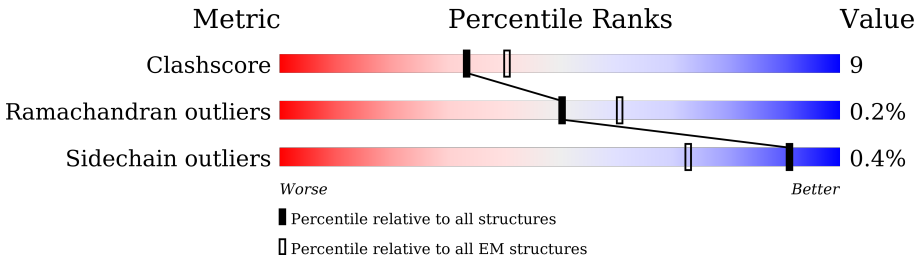
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.30 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	80% 18%
2	B	737	9% 79% 17%
3	C	81	7% 80% 17%
4	D	220	7% 46% 16% 37%
5	E	70	9% 77% 11% 11%
6	F	186	11% 78% 8% 13%
7	I	35	71% 14% 14%
8	J	40	15% 82% 10% 8%

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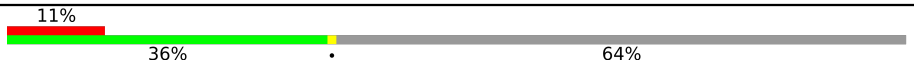
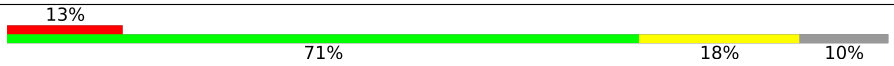
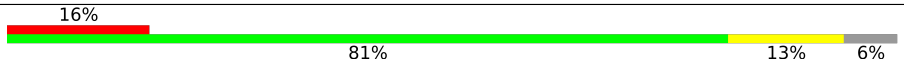
Mol	Chain	Length	Quality of chain
9	K	157	
10	L	146	
11	M	31	

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
12	CL0	A	801	X	-	-	-
13	CLA	A	802	X	-	-	-
13	CLA	A	803	X	-	-	-
13	CLA	A	804	X	-	-	-
13	CLA	A	805	X	-	-	-
13	CLA	A	806	X	-	-	-
13	CLA	A	807	X	-	-	-
13	CLA	A	808	X	-	-	-
13	CLA	A	809	X	-	-	-
13	CLA	A	810	X	-	-	-
13	CLA	A	811	X	-	-	-
13	CLA	A	812	X	-	-	-
13	CLA	A	813	X	-	-	-
13	CLA	A	814	X	-	-	-
13	CLA	A	815	X	-	-	-
13	CLA	A	819	X	-	-	-
13	CLA	A	820	X	-	-	-
13	CLA	A	821	X	-	-	-
13	CLA	A	822	X	-	-	-
13	CLA	A	825	X	-	-	-
13	CLA	A	826	X	-	-	-
13	CLA	A	827	X	-	-	-
13	CLA	A	828	X	-	-	-
13	CLA	A	829	X	-	-	-
13	CLA	A	830	X	-	-	-
13	CLA	A	831	X	-	-	-
13	CLA	A	833	X	-	-	-
13	CLA	A	834	X	-	-	-
13	CLA	A	835	X	-	-	-
13	CLA	A	837	X	-	-	-
13	CLA	A	838	X	-	-	-
13	CLA	A	839	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CLA	A	840	X	-	-	-
13	CLA	A	841	X	-	-	-
13	CLA	A	842	X	-	-	-
13	CLA	A	843	X	-	-	-
13	CLA	A	844	X	-	-	-
13	CLA	B	801	X	-	-	-
13	CLA	B	802	X	-	-	-
13	CLA	B	803	X	-	-	-
13	CLA	B	804	X	-	-	-
13	CLA	B	805	X	-	-	-
13	CLA	B	806	X	-	-	-
13	CLA	B	807	X	-	-	-
13	CLA	B	808	X	-	-	-
13	CLA	B	809	X	-	-	-
13	CLA	B	810	X	-	-	-
13	CLA	B	811	X	-	-	-
13	CLA	B	812	X	-	-	-
13	CLA	B	813	X	-	-	-
13	CLA	B	814	X	-	-	-
13	CLA	B	815	X	-	-	-
13	CLA	B	816	X	-	-	-
13	CLA	B	817	X	-	-	-
13	CLA	B	818	X	-	-	-
13	CLA	B	819	X	-	-	-
13	CLA	B	820	X	-	-	-
13	CLA	B	821	X	-	-	-
13	CLA	B	822	X	-	-	-
13	CLA	B	823	X	-	-	-
13	CLA	B	825	X	-	-	-
13	CLA	B	826	X	-	-	-
13	CLA	B	828	X	-	-	-
13	CLA	B	829	X	-	-	-
13	CLA	B	830	X	-	-	-
13	CLA	B	831	X	-	-	-
13	CLA	F	203	X	-	-	-
13	CLA	J	101	X	-	-	-
13	CLA	K	201	X	-	-	-
13	CLA	K	203	X	-	-	-
13	CLA	L	204	X	-	-	-
15	SF4	A	846	-	-	X	-
15	SF4	C	102	-	-	X	-

2 Entry composition

There are 18 unique types of molecules in this entry. The entry contains 22745 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
			Total	C	N	O	S		
1	A	739	5803	3794	987	999	23	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	706	5622	3688	950	972	12	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	80	601	367	106	117	11	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	139	1082	691	190	199	2	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	E	62	508	322	87	98	1	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	F	161	1255	795	220	238	2	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	30	Total	C	N	O	S	0	0
			228	155	31	40	2		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
8	J	37	Total	C	N	O	0	0
			292	199	43	50		

- Molecule 9 is a protein called Photosystem I reaction center subunit PsaK 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	K	57	Total	C	N	O	S	0	0
			403	269	65	67	2		

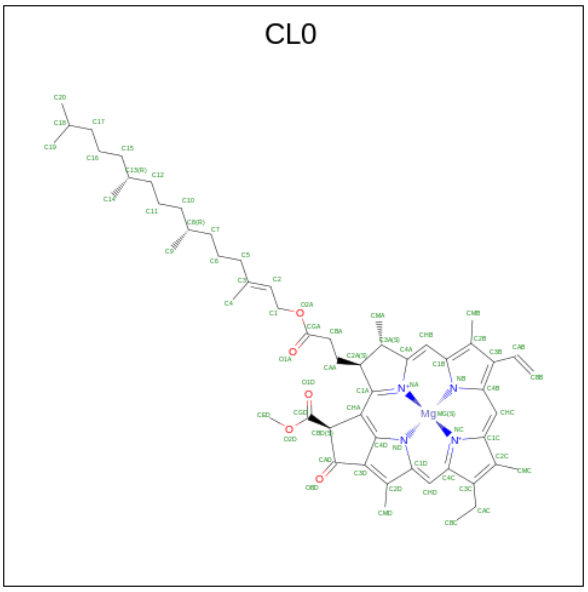
- Molecule 10 is a protein called Photosystem I reaction center subunit XI.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	L	131	Total	C	N	O	S	0	0
			965	626	160	177	2		

- Molecule 11 is a protein called Photosystem I reaction center subunit XII.

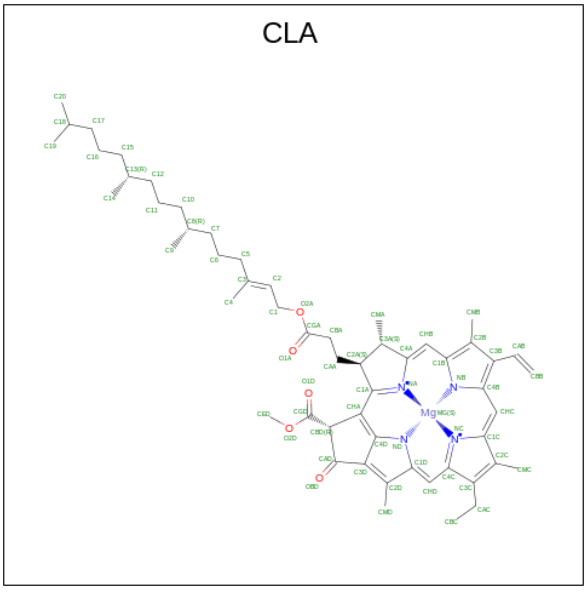
Mol	Chain	Residues	Atoms				AltConf	Trace
11	M	29	Total	C	N	O	0	0
			215	145	34	36		

- Molecule 12 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: $C_{55}H_{72}MgN_4O_5$).



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

- Molecule 13 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total	C	Mg	N	O	0
			2441	2011	43	172	215	
13	A	1	Total	C	Mg	N	O	0
			2441	2011	43	172	215	
13	A	1	Total	C	Mg	N	O	0
			2441	2011	43	172	215	

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Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0

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Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	A	1	Total 2441	C 2011	Mg 43	N 172	O 215	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0

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Mol	Chain	Residues	Atoms					AltConf
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0
13	B	1	Total 1945	C 1615	Mg 33	N 132	O 165	0

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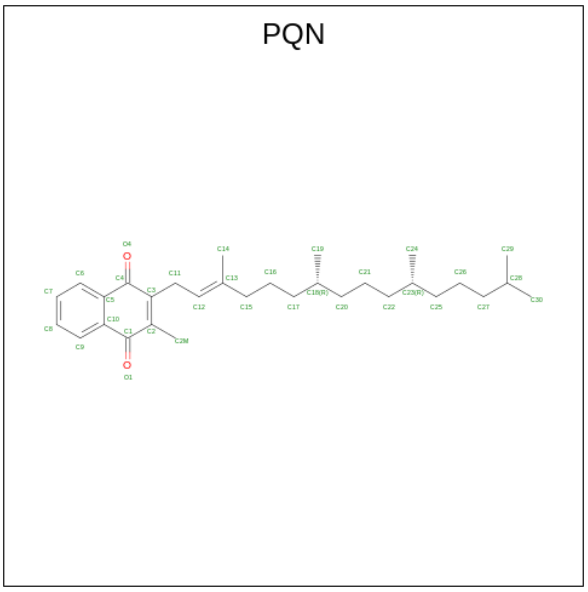
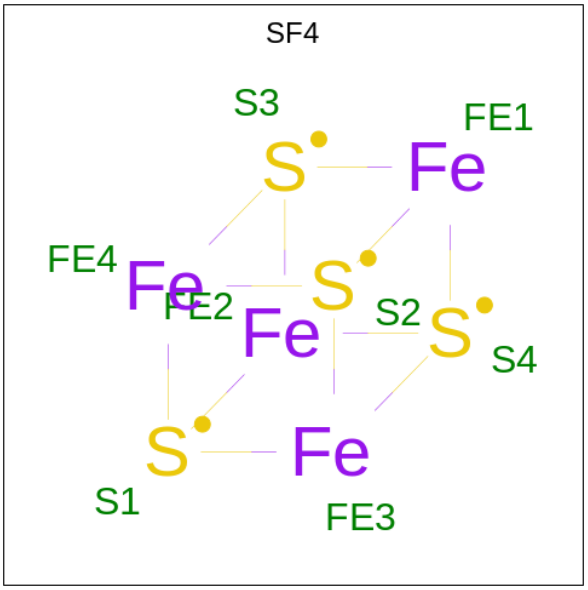
Mol	Chain	Residues	Atoms	AltConf
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	B	1	Total C Mg N O 1945 1615 33 132 165	0
13	F	1	Total C Mg N O 45 35 1 4 5	0
13	J	1	Total C Mg N O 45 35 1 4 5	0
13	K	1	Total C Mg N O 86 68 2 8 8	0
13	K	1	Total C Mg N O 86 68 2 8 8	0
13	L	1	Total C Mg N O 163 133 3 12 15	0
13	L	1	Total C Mg N O 163 133 3 12 15	0
13	L	1	Total C Mg N O 163 133 3 12 15	0

- Molecule 14 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



Mol	Chain	Residues	Atoms			AltConf
14	A	1	Total	C	O	0
			33	31	2	
14	B	1	Total	C	O	0
			33	31	2	

- Molecule 15 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			AltConf
15	A	1	Total	Fe	S	0
			8	4	4	
15	C	1	Total	Fe	S	0
			16	8	8	

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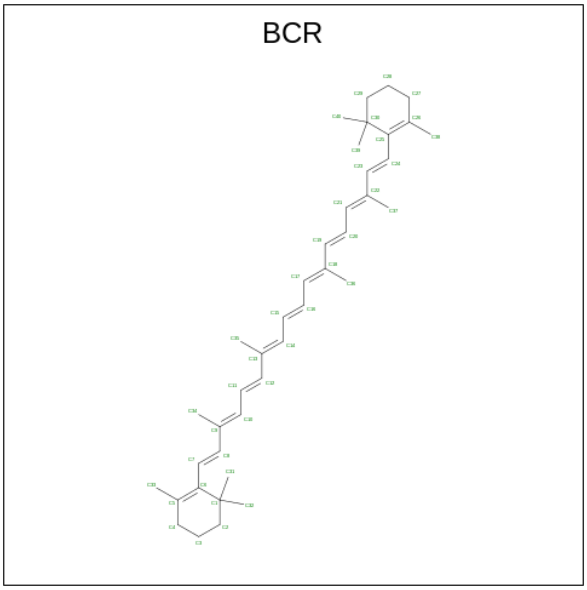
Mol	Chain	Residues	Atoms			AltConf
15	C	1	Total	Fe	S	0
			16	8	8	

- Molecule 16 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$).



Mol	Chain	Residues	Atoms		AltConf
16	A	1	Total	C	0
			200	200	
16	A	1	Total	C	0
			200	200	
16	A	1	Total	C	0
			200	200	
16	A	1	Total	C	0
			200	200	
16	A	1	Total	C	0
			200	200	
16	B	1	Total	C	0
			120	120	
16	B	1	Total	C	0
			120	120	
16	B	1	Total	C	0
			120	120	
16	F	1	Total	C	0
			80	80	
16	F	1	Total	C	0
			80	80	

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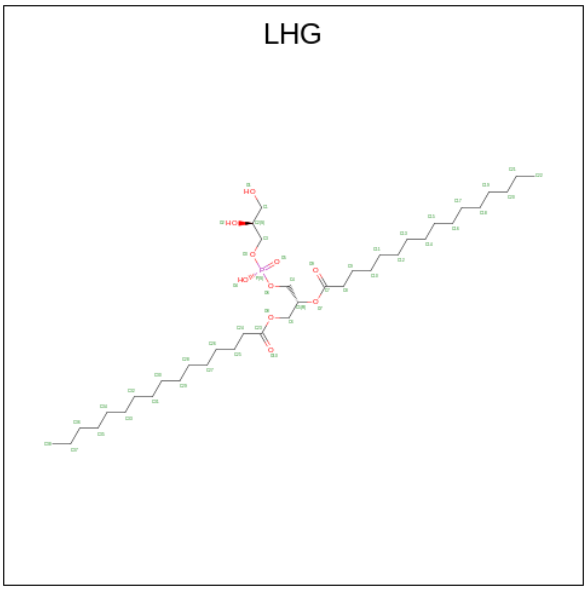
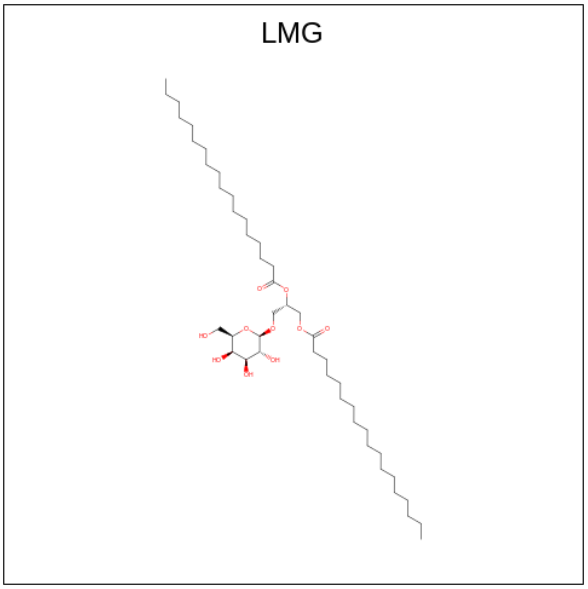
Mol	Chain	Residues	Atoms	AltConf
16	I	1	Total C 40 40	0
16	J	1	Total C 120 120	0
16	J	1	Total C 120 120	0
16	J	1	Total C 120 120	0
16	K	1	Total C 40 40	0
16	L	1	Total C 120 120	0
16	L	1	Total C 120 120	0
16	L	1	Total C 120 120	0
16	M	1	Total C 40 40	0

- Molecule 17 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms	AltConf
17	A	1	Total C O P 76 54 20 2	0
17	A	1	Total C O P 76 54 20 2	0

- Molecule 18 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).

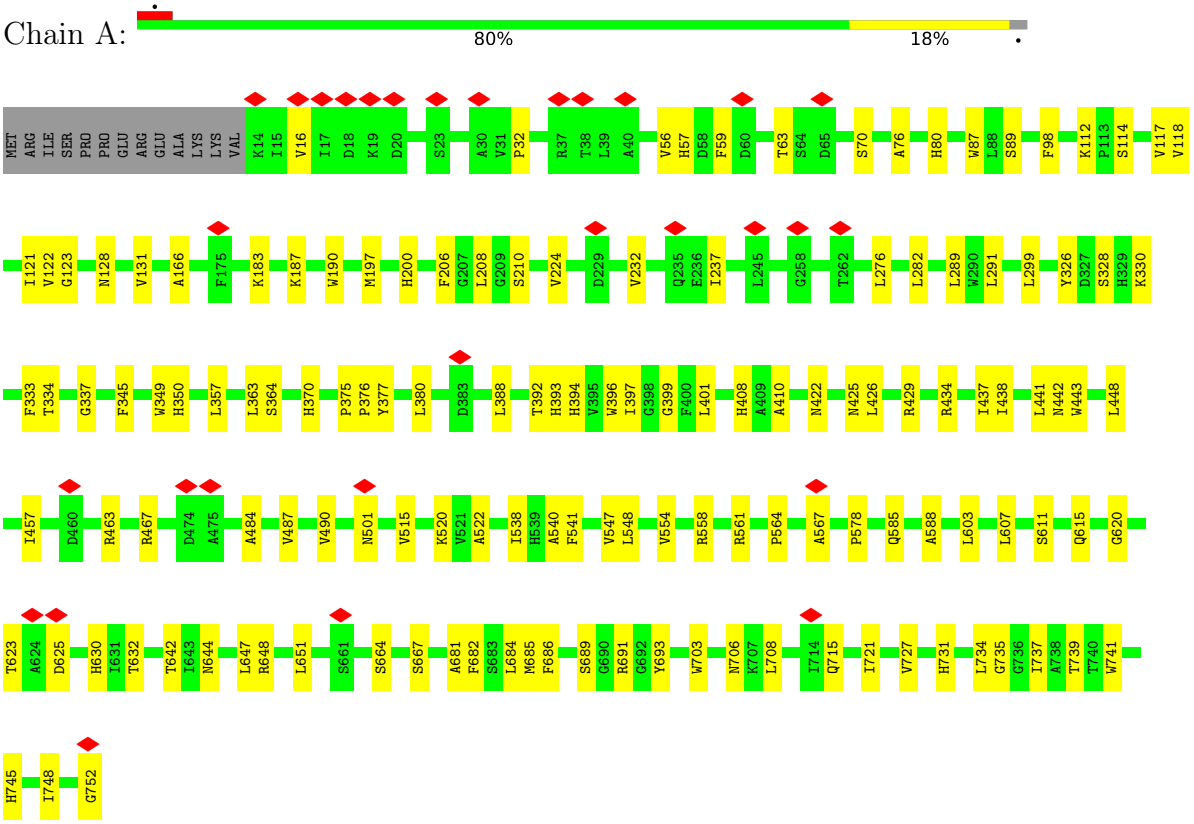


Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
18	B	1	55	45	10	0

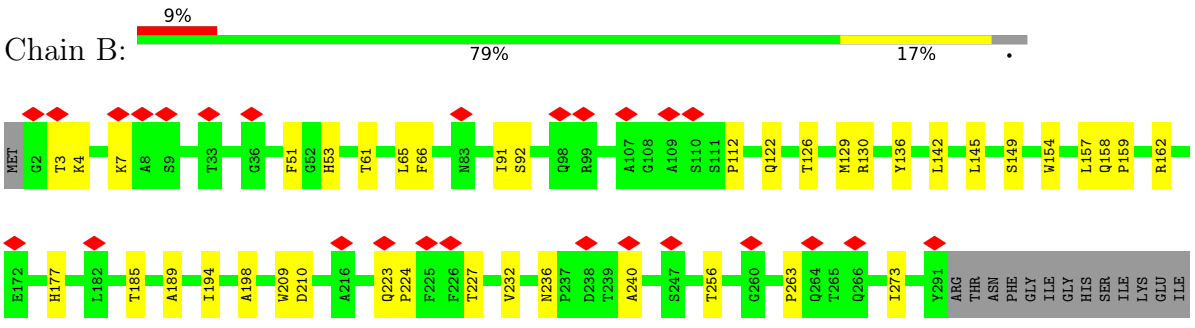
3 Residue-property plots (i)

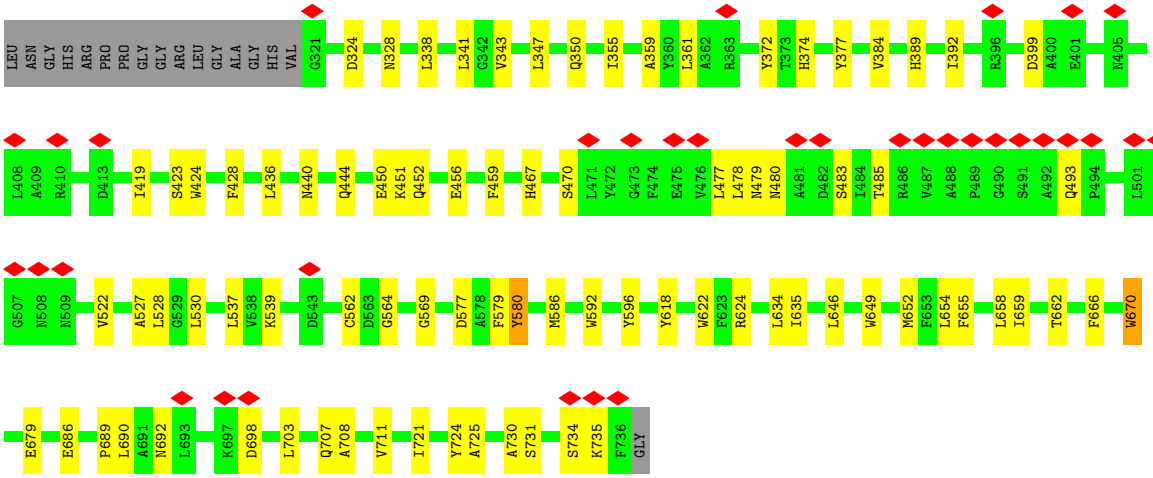
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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

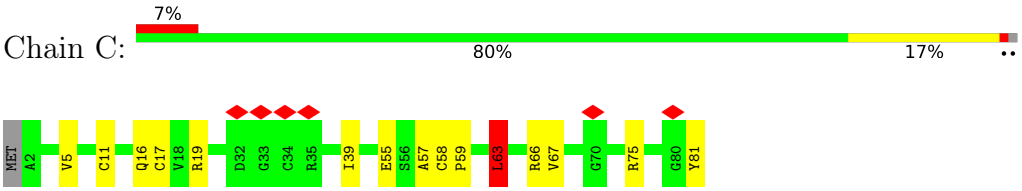


• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

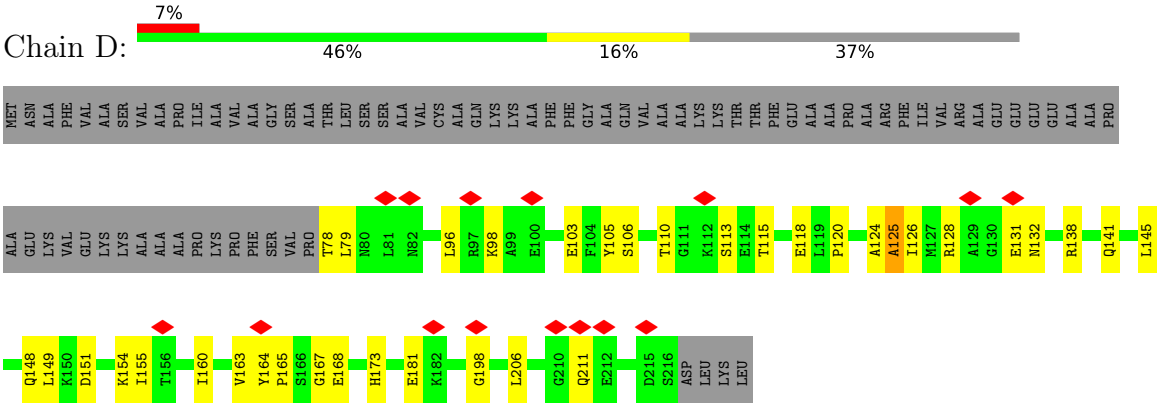




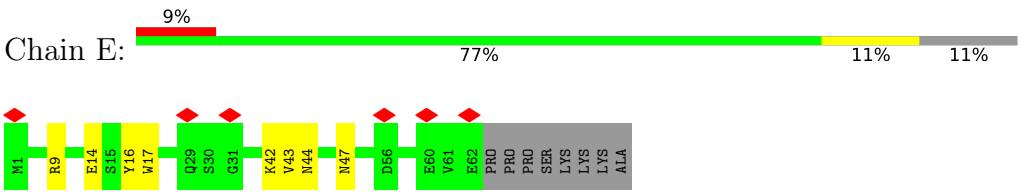
• Molecule 3: Photosystem I iron-sulfur center



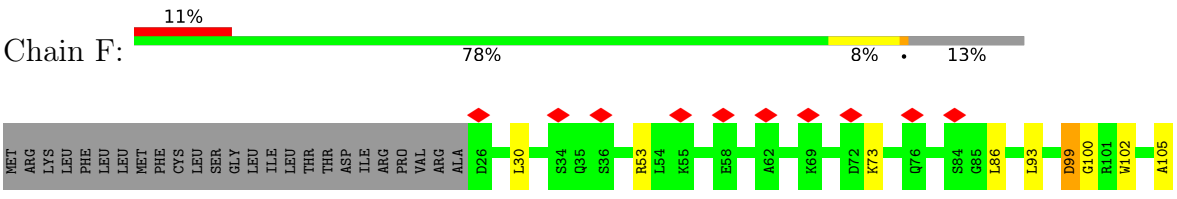
• Molecule 4: Photosystem I reaction center subunit II, cyanelle

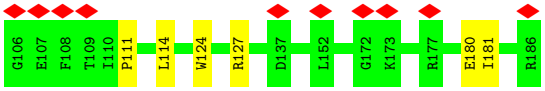


• Molecule 5: Photosystem I reaction center subunit IV



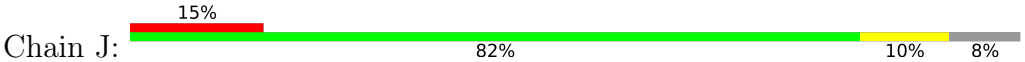
• Molecule 6: Photosystem I reaction center subunit III

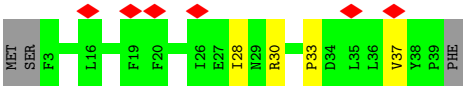




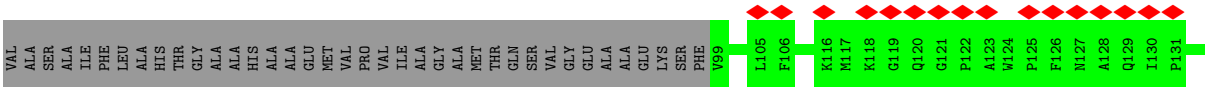
• Molecule 7: Photosystem I reaction center subunit VIII

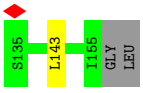
• Molecule 8: Photosystem I reaction center subunit IX



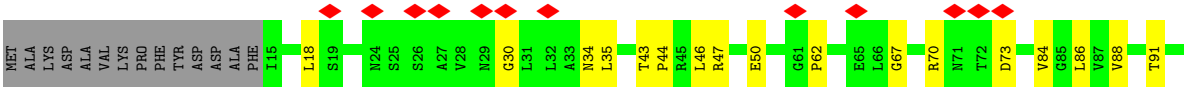


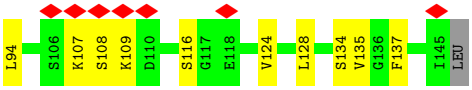
• Molecule 9: Photosystem I reaction center subunit PsaK 1



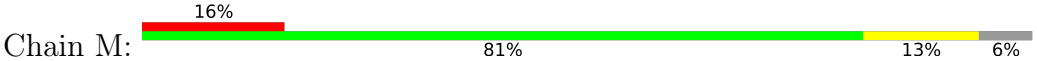


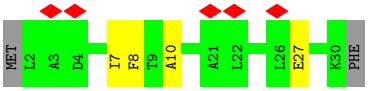
• Molecule 10: Photosystem I reaction center subunit XI





• Molecule 11: Photosystem I reaction center subunit XII





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	70920	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.396	Depositor
Minimum map value	-0.211	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.06	Depositor
Map size (Å)	437.2, 437.2, 437.2	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.093, 1.093, 1.093	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LHG, CLA, LMG, BCR, CL0, SF4, 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	0.39	0/6000	0.51	0/8177
2	B	0.35	0/5820	0.52	0/7955
3	C	0.37	0/611	0.59	0/828
4	D	0.35	0/1105	0.72	1/1489 (0.1%)
5	E	0.34	0/516	0.48	0/696
6	F	0.29	0/1281	0.51	0/1733
7	I	0.34	0/232	0.65	0/319
8	J	0.32	0/300	0.57	0/410
9	K	0.30	0/414	0.48	0/564
10	L	0.32	0/988	0.56	1/1342 (0.1%)
11	M	0.28	0/217	0.51	0/295
All	All	0.36	0/17484	0.54	2/23808 (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
1	A	0	1
2	B	0	3
4	D	0	3
6	F	0	1
All	All	0	8

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	L	73	ASP	C-N-CA	5.17	133.15	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	125	ALA	C-N-CA	5.12	134.51	121.70

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	328	SER	Peptide
2	B	478	LEU	Peptide
2	B	493	GLN	Peptide
2	B	670	TRP	Peptide
4	D	124	ALA	Peptide
4	D	125	ALA	Peptide
4	D	164	TYR	Peptide
6	F	99	ASP	Peptide

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	5803	0	5621	103	0
2	B	5622	0	5406	96	0
3	C	601	0	576	14	0
4	D	1082	0	1099	22	0
5	E	508	0	507	6	0
6	F	1255	0	1249	12	0
7	I	228	0	247	4	0
8	J	292	0	302	4	0
9	K	403	0	421	1	0
10	L	965	0	970	20	0
11	M	215	0	239	4	0
12	A	65	0	72	2	0
13	A	2441	0	2362	111	0
13	B	1945	0	1960	93	0
13	F	45	0	33	0	0
13	J	45	0	33	1	0
13	K	86	0	62	0	0
13	L	163	0	148	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	A	33	0	46	4	0
14	B	33	0	46	6	0
15	A	8	0	0	2	0
15	C	16	0	0	4	0
16	A	200	0	280	20	0
16	B	120	0	168	10	0
16	F	80	0	112	8	0
16	I	40	0	56	5	0
16	J	120	0	168	10	0
16	K	40	0	56	3	0
16	L	120	0	168	6	0
16	M	40	0	56	4	0
17	A	76	0	98	2	0
18	B	55	0	86	1	0
All	All	22745	0	22647	412	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 9.

All (412) 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)
3:C:17:CYS:HB3	15:C:102:SF4:S4	2.29	0.72
1:A:399:GLY:HA3	1:A:603:LEU:HD11	1.72	0.70
13:B:830:CLA:H71	13:B:830:CLA:HBB1	1.73	0.69
15:A:846:SF4:S3	2:B:562:CYS:CB	2.78	0.69
2:B:338:LEU:HD21	13:B:823:CLA:HAB	1.75	0.68
1:A:396:TRP:HB3	13:A:829:CLA:HMC3	1.75	0.68
13:A:830:CLA:H2	16:A:848:BCR:H24C	1.75	0.67
1:A:357:LEU:HD21	13:A:831:CLA:HAB	1.75	0.67
13:B:820:CLA:H13	16:B:836:BCR:H15C	1.77	0.67
13:A:820:CLA:HAB	13:A:820:CLA:H8	1.77	0.66
13:A:806:CLA:H72	16:A:848:BCR:H23C	1.78	0.64
13:B:807:CLA:HAB	13:B:822:CLA:HMC2	1.80	0.64
1:A:87:TRP:HA	13:A:808:CLA:HBB2	1.80	0.63
2:B:374:HIS:HE1	13:B:821:CLA:ND	1.96	0.63
13:A:810:CLA:HAB	16:J:102:BCR:HC7	1.81	0.63
1:A:363:LEU:HD21	13:A:820:CLA:H72	1.81	0.63
13:A:829:CLA:H191	16:J:102:BCR:H14C	1.81	0.63
13:A:842:CLA:HMC2	16:F:201:BCR:H381	1.81	0.62
13:A:842:CLA:HAB	14:A:845:PQN:H162	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I:13:VAL:HA	7:I:17:LEU:HB2	1.82	0.62
1:A:224:VAL:HG23	1:A:237:ILE:HG21	1.81	0.61
13:B:805:CLA:HBB1	16:M:101:BCR:H312	1.82	0.61
13:B:808:CLA:H92	13:B:808:CLA:HMC2	1.83	0.61
15:A:846:SF4:S3	2:B:562:CYS:HB3	2.41	0.61
13:A:809:CLA:HAB	16:J:102:BCR:H363	1.83	0.61
4:D:128:ARG:H	4:D:132:ASN:HD22	1.48	0.60
13:A:822:CLA:HMB2	13:A:826:CLA:HMA3	1.83	0.60
13:A:833:CLA:HMC2	13:L:203:CLA:H152	1.84	0.60
1:A:401:LEU:HD21	13:A:807:CLA:H142	1.83	0.60
3:C:5:VAL:HG22	3:C:67:VAL:HG22	1.84	0.60
1:A:644:ASN:OD1	1:A:648:ARG:NH1	2.35	0.59
13:A:808:CLA:HMB3	13:A:809:CLA:HHB	1.84	0.59
2:B:223:GLN:HG3	2:B:224:PRO:HD3	1.84	0.58
13:A:843:CLA:HBB2	16:A:851:BCR:H19C	1.85	0.58
13:B:807:CLA:H162	13:B:822:CLA:HBB2	1.85	0.58
4:D:110:THR:HG22	4:D:131:GLU:H	1.69	0.58
13:A:804:CLA:HBB2	13:A:812:CLA:H111	1.85	0.57
13:A:833:CLA:HED1	10:L:18:LEU:HD21	1.86	0.57
16:A:851:BCR:H272	16:F:201:BCR:H16C	1.86	0.57
1:A:345:PHE:HB3	13:A:826:CLA:HBC3	1.85	0.57
4:D:163:VAL:HG23	4:D:167:GLY:HA3	1.86	0.57
10:L:35:LEU:HD21	13:L:202:CLA:HBB1	1.86	0.57
1:A:467:ARG:NH2	13:A:835:CLA:OBD	2.37	0.57
4:D:98:LYS:NZ	4:D:103:GLU:O	2.38	0.57
10:L:134:SER:HA	10:L:137:PHE:HB3	1.86	0.57
13:B:802:CLA:H202	13:B:803:CLA:HHB	1.87	0.57
1:A:392:THR:HG22	1:A:607:LEU:HD22	1.87	0.57
2:B:618:TYR:OH	2:B:624:ARG:NH2	2.37	0.57
13:B:833:CLA:H121	16:I:101:BCR:H21C	1.87	0.57
1:A:501:ASN:ND2	13:A:818:CLA:OBD	2.38	0.57
1:A:564:PRO:HB3	4:D:120:PRO:HB3	1.87	0.56
1:A:540:ALA:HB1	13:A:839:CLA:HMB3	1.87	0.56
1:A:554:VAL:HG21	16:A:850:BCR:HC31	1.86	0.56
13:B:828:CLA:HMB1	16:B:836:BCR:HC31	1.88	0.56
3:C:11:CYS:HB2	15:C:102:SF4:S3	2.45	0.56
7:I:25:LEU:HD13	16:L:205:BCR:HC8	1.86	0.56
2:B:724:TYR:HB2	13:B:802:CLA:HED3	1.88	0.56
13:B:801:CLA:H111	13:B:832:CLA:H71	1.88	0.56
2:B:679:GLU:HG2	3:C:81:TYR:HE2	1.71	0.55
13:B:833:CLA:H112	16:I:101:BCR:H19C	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:SER:HB3	1:A:349:TRP:HE1	1.72	0.55
1:A:282:LEU:HD12	1:A:515:VAL:HG11	1.89	0.55
1:A:727:VAL:O	1:A:731:HIS:ND1	2.36	0.55
1:A:76:ALA:HB1	13:A:806:CLA:HBB1	1.89	0.54
13:A:812:CLA:H141	16:J:102:BCR:H272	1.88	0.54
13:A:813:CLA:HBB2	13:A:821:CLA:H13	1.88	0.54
13:A:841:CLA:HMB2	13:B:825:CLA:H52	1.90	0.54
4:D:160:ILE:HG12	4:D:173:HIS:HB3	1.90	0.54
1:A:735:GLY:O	1:A:739:THR:OG1	2.26	0.54
2:B:708:ALA:HA	2:B:711:VAL:HB	1.90	0.54
1:A:561:ARG:O	4:D:138:ARG:NH1	2.37	0.54
13:B:830:CLA:HBC2	16:J:104:BCR:HC7	1.90	0.54
1:A:128:ASN:O	6:F:53:ARG:NH2	2.40	0.53
2:B:177:HIS:HB3	13:B:813:CLA:HBB1	1.91	0.53
2:B:725:ALA:HB2	13:B:821:CLA:HBB1	1.91	0.53
2:B:389:HIS:HA	2:B:392:ILE:HD12	1.89	0.53
13:A:841:CLA:HHC	13:A:841:CLA:HBB1	1.90	0.53
10:L:86:LEU:HD21	16:L:201:BCR:H10C	1.91	0.53
4:D:78:THR:OG1	4:D:79:LEU:N	2.41	0.53
13:A:827:CLA:HMA1	16:A:850:BCR:H15C	1.91	0.53
1:A:388:LEU:HD13	1:A:748:ILE:HG21	1.90	0.53
1:A:538:ILE:HG23	12:A:801:CL0:H67	1.91	0.53
3:C:16:GLN:NE2	3:C:57:ALA:O	2.42	0.53
1:A:686:PHE:HA	14:A:845:PQN:H9	1.91	0.52
16:A:847:BCR:H382	16:K:202:BCR:HC8	1.91	0.52
2:B:91:ILE:HB	2:B:112:PRO:HB2	1.91	0.52
2:B:240:ALA:HA	2:B:263:PRO:HG3	1.91	0.52
2:B:652:MET:HA	2:B:655:PHE:HB3	1.91	0.52
1:A:32:PRO:HB3	13:A:804:CLA:HAC1	1.90	0.52
13:A:802:CLA:H101	13:B:804:CLA:H121	1.91	0.52
10:L:67:GLY:O	10:L:70:ARG:NH1	2.41	0.52
1:A:520:LYS:NZ	1:A:752:GLY:O	2.43	0.52
2:B:142:LEU:HD21	16:B:835:BCR:H24C	1.91	0.52
2:B:470:SER:OG	2:B:479:ASN:ND2	2.42	0.52
3:C:19:ARG:HH21	4:D:181:GLU:HB2	1.74	0.52
2:B:721:ILE:HD13	13:B:821:CLA:HMC2	1.92	0.52
13:B:808:CLA:H93	16:M:101:BCR:H353	1.91	0.52
5:E:9:ARG:NH1	6:F:180:GLU:OE2	2.43	0.52
4:D:120:PRO:HD3	4:D:145:LEU:HD13	1.91	0.52
2:B:528:LEU:HD21	13:B:803:CLA:HBB1	1.90	0.51
10:L:30:GLY:O	10:L:34:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:840:CLA:H61	13:A:840:CLA:H142	1.92	0.51
1:A:691:ARG:NH2	2:B:569:GLY:O	2.41	0.51
13:A:809:CLA:HBB2	13:A:829:CLA:H192	1.92	0.51
13:A:835:CLA:H171	13:L:203:CLA:HMB2	1.92	0.51
2:B:65:LEU:HD11	16:B:835:BCR:H271	1.91	0.51
4:D:138:ARG:HB2	4:D:141:GLN:HG3	1.91	0.51
1:A:118:VAL:O	1:A:128:ASN:ND2	2.38	0.51
13:B:804:CLA:H202	13:B:833:CLA:H122	1.92	0.51
1:A:345:PHE:HE1	16:A:849:BCR:H312	1.75	0.51
1:A:349:TRP:HB3	13:A:806:CLA:HAC1	1.93	0.51
13:A:826:CLA:HBA1	13:A:830:CLA:H193	1.93	0.51
2:B:3:THR:OG1	2:B:4:LYS:N	2.44	0.51
1:A:463:ARG:HE	1:A:642:THR:HG21	1.75	0.51
13:A:805:CLA:HBB1	13:A:812:CLA:H121	1.93	0.51
1:A:715:GLN:NE2	5:E:16:TYR:OH	2.43	0.51
2:B:456:GLU:HG3	6:F:30:LEU:HD11	1.92	0.50
2:B:731:SER:O	2:B:735:LYS:NZ	2.40	0.50
13:B:807:CLA:H2	13:B:807:CLA:HED3	1.94	0.50
1:A:364:SER:OG	1:A:394:HIS:O	2.29	0.50
2:B:343:VAL:HG13	13:B:819:CLA:HED1	1.93	0.50
1:A:59:PHE:O	1:A:63:THR:OG1	2.29	0.50
16:A:851:BCR:H282	16:F:201:BCR:H14C	1.92	0.50
2:B:530:LEU:HD12	13:B:831:CLA:HED3	1.94	0.50
2:B:646:LEU:HA	2:B:649:TRP:HD1	1.77	0.50
2:B:577:ASP:HA	2:B:580:TYR:HB3	1.94	0.50
1:A:422:ASN:OD1	1:A:425:ASN:ND2	2.44	0.50
1:A:578:PRO:HD3	2:B:564:GLY:HA2	1.93	0.50
13:A:843:CLA:HAB	16:A:851:BCR:H16C	1.94	0.50
2:B:485:THR:HG21	13:B:827:CLA:HMD1	1.93	0.50
1:A:623:THR:HG23	1:A:625:ASP:H	1.76	0.49
2:B:666:PHE:HA	14:B:834:PQN:H9	1.93	0.49
2:B:698:ASP:OD1	2:B:698:ASP:N	2.38	0.49
10:L:91:THR:HG21	10:L:128:LEU:HD13	1.93	0.49
1:A:289:LEU:HD13	13:A:819:CLA:HMA2	1.93	0.49
10:L:108:SER:OG	10:L:109:LYS:N	2.44	0.49
2:B:53:HIS:HB2	13:B:806:CLA:HMB2	1.93	0.49
1:A:326:TYR:OH	13:A:825:CLA:OBD	2.26	0.49
1:A:620:GLY:HA3	1:A:630:HIS:HA	1.95	0.49
2:B:459:PHE:HE1	13:B:830:CLA:H43	1.78	0.49
3:C:75:ARG:NH2	4:D:168:GLU:OE1	2.46	0.49
1:A:333:PHE:O	1:A:429:ARG:NH2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:PHE:O	2:B:149:SER:OG	2.28	0.49
2:B:686:GLU:O	2:B:692:ASN:ND2	2.46	0.49
13:A:831:CLA:H91	17:A:852:LHG:H312	1.94	0.49
1:A:334:THR:HB	1:A:426:LEU:HD11	1.94	0.48
10:L:44:PRO:HA	10:L:47:ARG:HG2	1.95	0.48
13:A:824:CLA:HMB1	13:A:844:CLA:H41	1.95	0.48
13:A:833:CLA:H43	2:B:689:PRO:HG2	1.95	0.48
10:L:107:LYS:HA	10:L:116:SER:HB3	1.94	0.48
1:A:426:LEU:HB3	13:A:825:CLA:HBC2	1.94	0.48
1:A:703:TRP:HH2	13:B:824:CLA:HED3	1.79	0.48
2:B:122:GLN:HG3	2:B:361:LEU:HD13	1.96	0.48
2:B:126:THR:HG21	2:B:359:ALA:H	1.78	0.48
10:L:137:PHE:HB2	16:L:206:BCR:H321	1.95	0.48
1:A:16:VAL:HG22	1:A:187:LYS:HG3	1.95	0.48
1:A:89:SER:HB3	1:A:166:ALA:HB3	1.96	0.48
13:A:832:CLA:HBB2	13:A:840:CLA:HMC2	1.95	0.48
1:A:585:GLN:HG3	2:B:670:TRP:HB2	1.96	0.48
1:A:737:ILE:HG21	13:A:829:CLA:HMC2	1.96	0.48
2:B:224:PRO:HG2	2:B:232:VAL:HG11	1.94	0.48
3:C:17:CYS:CB	15:C:102:SF4:S4	2.83	0.48
13:B:832:CLA:HMC2	16:B:837:BCR:H381	1.94	0.48
10:L:43:THR:HG22	10:L:46:LEU:HG	1.96	0.48
13:B:801:CLA:H61	13:B:801:CLA:H41	1.62	0.48
4:D:149:LEU:HB3	4:D:155:ILE:HG13	1.95	0.48
1:A:684:LEU:HB2	13:A:803:CLA:HMC3	1.95	0.48
2:B:224:PRO:HA	2:B:227:THR:HG22	1.96	0.48
1:A:410:ALA:HB1	1:A:588:ALA:HB1	1.95	0.47
1:A:611:SER:O	1:A:615:GLN:NE2	2.47	0.47
1:A:388:LEU:HD22	1:A:748:ILE:HD13	1.96	0.47
1:A:434:ARG:HA	1:A:437:ILE:HD12	1.95	0.47
13:A:828:CLA:HED1	13:A:836:CLA:HAB	1.96	0.47
2:B:159:PRO:HA	2:B:162:ARG:HD2	1.96	0.47
13:A:843:CLA:H143	14:A:845:PQN:H292	1.96	0.47
1:A:377:TYR:HD1	1:A:380:LEU:HD22	1.79	0.47
1:A:547:VAL:HG11	13:A:840:CLA:HMB3	1.96	0.47
16:K:202:BCR:H20C	16:K:202:BCR:H361	1.76	0.47
13:B:804:CLA:H142	16:I:101:BCR:H393	1.95	0.47
13:B:825:CLA:H62	13:B:825:CLA:H2	1.64	0.47
14:B:834:PQN:H142	16:B:837:BCR:H271	1.95	0.47
1:A:501:ASN:HB2	13:A:837:CLA:HED3	1.96	0.47
13:A:818:CLA:CHD	13:A:819:CLA:HBB2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4:LYS:HE3	2:B:7:LYS:HD3	1.97	0.47
2:B:659:ILE:HD12	13:B:833:CLA:HMB3	1.96	0.47
16:I:101:BCR:H24C	16:I:101:BCR:H371	1.75	0.47
13:A:807:CLA:HAB	13:A:830:CLA:HMC2	1.96	0.47
8:J:30:ARG:HD2	16:J:103:BCR:H312	1.97	0.47
6:F:102:TRP:HA	6:F:105:ALA:HB2	1.96	0.47
1:A:448:LEU:HB3	1:A:541:PHE:HB2	1.97	0.47
2:B:154:TRP:O	2:B:158:GLN:NE2	2.39	0.46
2:B:350:GLN:NE2	2:B:372:TYR:OH	2.48	0.46
2:B:690:LEU:HB2	16:L:201:BCR:H282	1.97	0.46
13:B:808:CLA:HAA1	7:I:10:VAL:HG12	1.96	0.46
4:D:118:GLU:H	4:D:148:GLN:HE22	1.62	0.46
13:L:204:CLA:H62	13:L:204:CLA:H41	1.72	0.46
1:A:197:MET:HB2	13:A:814:CLA:HBC2	1.97	0.46
2:B:185:THR:O	2:B:189:ALA:N	2.44	0.46
1:A:397:ILE:HD12	13:A:830:CLA:HBB1	1.96	0.46
1:A:457:ILE:HG22	13:A:835:CLA:HBC2	1.96	0.46
2:B:658:LEU:O	2:B:662:THR:OG1	2.32	0.46
13:A:822:CLA:H8	16:A:850:BCR:H12C	1.97	0.46
13:A:831:CLA:H203	13:A:831:CLA:H161	1.82	0.46
6:F:111:PRO:HA	6:F:114:LEU:HB3	1.98	0.46
13:A:822:CLA:H91	13:A:822:CLA:H111	1.72	0.46
2:B:424:TRP:O	2:B:428:PHE:N	2.43	0.46
13:L:203:CLA:HMB3	13:L:204:CLA:HBC2	1.97	0.46
1:A:393:HIS:HE1	13:A:829:CLA:ND	2.10	0.46
13:B:832:CLA:H72	13:B:833:CLA:H141	1.98	0.46
4:D:128:ARG:H	4:D:132:ASN:ND2	2.13	0.46
13:A:809:CLA:H2	16:J:102:BCR:H403	1.98	0.46
2:B:399:ASP:N	2:B:399:ASP:OD1	2.47	0.46
1:A:350:HIS:HD2	1:A:408:HIS:HD1	1.63	0.46
13:A:829:CLA:H62	13:A:829:CLA:H41	1.69	0.46
13:A:844:CLA:H3A	13:A:844:CLA:HBA2	1.68	0.46
2:B:436:LEU:O	2:B:440:ASN:ND2	2.49	0.46
13:B:820:CLA:H161	16:B:836:BCR:H17C	1.98	0.46
13:A:819:CLA:HBA2	13:A:819:CLA:H3A	1.78	0.46
13:B:809:CLA:HBA2	13:B:809:CLA:H141	1.97	0.46
13:B:816:CLA:H3A	13:B:816:CLA:HBA2	1.74	0.46
13:B:827:CLA:HHC	13:B:827:CLA:HBB1	1.98	0.46
1:A:80:HIS:HB2	13:A:806:CLA:HMB2	1.99	0.45
1:A:558:ARG:HA	1:A:567:ALA:HB2	1.98	0.45
1:A:708:LEU:HD21	13:B:824:CLA:H3A	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:829:CLA:H112	13:A:829:CLA:H152	1.70	0.45
13:L:202:CLA:H3A	13:L:202:CLA:HBA2	1.69	0.45
1:A:276:LEU:HD21	1:A:299:LEU:HD23	1.98	0.45
2:B:384:VAL:HG21	2:B:586:MET:HG2	1.99	0.45
2:B:622:TRP:HB3	13:B:802:CLA:H101	1.98	0.45
4:D:206:LEU:HD22	4:D:211:GLN:HB3	1.99	0.45
16:L:205:BCR:H15C	16:L:205:BCR:H351	1.85	0.45
1:A:734:LEU:HD22	13:A:843:CLA:HMA1	1.99	0.45
2:B:527:ALA:HB2	13:B:830:CLA:HMA1	1.98	0.45
2:B:384:VAL:HG22	2:B:537:LEU:HD11	1.98	0.45
16:F:202:BCR:H20C	16:F:202:BCR:H361	1.85	0.45
10:L:50:GLU:HG3	13:L:202:CLA:HMA3	1.99	0.45
1:A:647:LEU:HD23	2:B:635:ILE:HD11	1.99	0.45
13:A:807:CLA:H151	13:A:830:CLA:HBB2	1.98	0.45
2:B:66:PHE:HZ	11:M:7:ILE:HG23	1.82	0.45
2:B:419:ILE:O	2:B:423:SER:N	2.47	0.45
13:B:832:CLA:H151	13:B:832:CLA:H112	1.83	0.45
13:A:805:CLA:HMA2	13:A:812:CLA:HMD2	1.99	0.45
13:A:840:CLA:HHC	13:A:840:CLA:HBB1	1.99	0.45
2:B:142:LEU:HD23	2:B:145:LEU:HD12	1.98	0.45
14:B:834:PQN:H301	18:B:838:LMG:H201	1.99	0.45
1:A:114:SER:HB2	1:A:131:VAL:HG21	1.98	0.45
1:A:397:ILE:HG21	13:A:830:CLA:HHC	1.99	0.45
2:B:61:THR:HG21	13:B:822:CLA:H42	1.98	0.45
2:B:177:HIS:CG	13:B:813:CLA:HMC2	2.52	0.45
2:B:444:GLN:OE1	2:B:452:GLN:NE2	2.50	0.45
16:L:201:BCR:H20C	16:L:201:BCR:H361	1.81	0.45
13:A:833:CLA:H41	13:A:833:CLA:H61	1.66	0.45
2:B:450:GLU:HA	6:F:93:LEU:HD22	1.98	0.45
2:B:703:LEU:HB3	2:B:707:GLN:HG2	1.98	0.45
3:C:55:GLU:OE1	3:C:66:ARG:NH1	2.50	0.45
1:A:682:PHE:HZ	13:A:843:CLA:HBC2	1.81	0.44
13:A:806:CLA:H41	13:A:830:CLA:H143	1.99	0.44
2:B:136:TYR:HE1	11:M:10:ALA:HB2	1.82	0.44
2:B:194:ILE:HA	2:B:198:ALA:HB3	1.99	0.44
2:B:236:ASN:N	2:B:236:ASN:OD1	2.51	0.44
4:D:79:LEU:HD11	4:D:106:SER:HB2	1.98	0.44
4:D:113:SER:HB3	4:D:115:THR:HG22	1.99	0.44
2:B:347:LEU:HD23	13:B:818:CLA:H52	2.00	0.44
13:B:806:CLA:HBA1	13:B:806:CLA:H3A	1.66	0.44
13:B:820:CLA:H203	13:B:820:CLA:H162	1.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:809:CLA:H122	13:B:821:CLA:H122	1.99	0.44
16:A:851:BCR:H342	16:A:851:BCR:H331	2.00	0.44
10:L:62:PRO:HB3	13:L:204:CLA:HBB1	2.00	0.44
1:A:438:ILE:O	1:A:442:ASN:N	2.49	0.44
2:B:377:TYR:HB3	13:B:821:CLA:HMC3	1.99	0.44
13:B:822:CLA:H142	13:B:822:CLA:H112	1.86	0.44
13:B:822:CLA:H3A	13:B:822:CLA:HBA2	1.77	0.44
13:A:805:CLA:HBA2	13:A:812:CLA:H62	1.99	0.44
2:B:377:TYR:CD1	13:B:821:CLA:HAB	2.53	0.44
13:B:804:CLA:H141	13:B:804:CLA:H161	1.85	0.44
13:A:812:CLA:H111	13:A:812:CLA:H72	1.82	0.44
2:B:210:ASP:N	2:B:210:ASP:OD1	2.48	0.44
13:B:811:CLA:H162	13:B:811:CLA:H122	1.69	0.44
10:L:67:GLY:H	10:L:70:ARG:HD3	1.82	0.44
1:A:206:PHE:O	1:A:210:SER:OG	2.31	0.44
13:A:832:CLA:HED2	10:L:18:LEU:HD12	2.00	0.44
1:A:370:HIS:ND1	13:A:819:CLA:OBD	2.51	0.44
13:A:823:CLA:H152	13:A:823:CLA:H111	1.88	0.44
13:A:823:CLA:H3A	13:A:823:CLA:HBA2	1.66	0.44
13:A:834:CLA:C3B	13:A:835:CLA:HMB2	2.48	0.44
2:B:451:LYS:HB3	13:B:826:CLA:HED1	2.00	0.44
13:B:809:CLA:H2	13:B:809:CLA:H62	1.78	0.44
1:A:330:LYS:HB3	1:A:337:GLY:HA3	2.00	0.43
13:A:804:CLA:HMB2	17:A:852:LHG:H172	2.00	0.43
13:A:821:CLA:H142	13:A:821:CLA:H111	1.89	0.43
2:B:324:ASP:O	2:B:328:ASN:ND2	2.51	0.43
2:B:703:LEU:N	14:B:834:PQN:O4	2.44	0.43
2:B:341:LEU:HD12	13:B:822:CLA:HMC1	2.00	0.43
13:B:833:CLA:H91	13:B:833:CLA:H111	1.74	0.43
2:B:92:SER:O	2:B:92:SER:OG	2.35	0.43
13:B:818:CLA:HBA2	13:B:818:CLA:H3A	1.79	0.43
3:C:11:CYS:CB	15:C:102:SF4:S3	3.00	0.43
5:E:43:VAL:HB	5:E:47:ASN:HA	2.01	0.43
1:A:681:ALA:HB3	13:A:803:CLA:HBB2	2.00	0.43
13:A:833:CLA:HMB1	13:B:801:CLA:HAA2	2.01	0.43
13:B:807:CLA:H72	13:B:807:CLA:H111	1.55	0.43
13:B:823:CLA:H41	13:B:823:CLA:H61	1.61	0.43
13:A:822:CLA:H61	16:A:850:BCR:H14C	2.01	0.43
16:A:847:BCR:H20C	16:A:847:BCR:H361	1.89	0.43
3:C:58:CYS:HA	3:C:59:PRO:HD3	1.91	0.43
1:A:183:LYS:HA	1:A:183:LYS:HD3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:644:ASN:HD22	2:B:654:LEU:HD11	1.83	0.43
2:B:157:LEU:HD13	11:M:27:GLU:HG3	2.00	0.43
2:B:522:VAL:HG11	2:B:596:TYR:HB2	2.00	0.43
13:B:804:CLA:H202	13:B:833:CLA:H102	2.00	0.43
13:B:807:CLA:H143	13:B:822:CLA:HBB2	2.00	0.43
4:D:103:GLU:OE2	4:D:105:TYR:OH	2.29	0.43
6:F:86:LEU:HD21	8:J:37:VAL:HG11	1.99	0.43
1:A:721:ILE:HD11	2:B:569:GLY:HA3	2.01	0.43
1:A:741:TRP:NE1	13:A:829:CLA:O1A	2.47	0.43
13:A:835:CLA:H192	13:A:835:CLA:H161	1.88	0.43
3:C:55:GLU:HB3	3:C:63:LEU:HD22	2.01	0.43
16:J:102:BCR:H15C	16:J:102:BCR:H351	1.87	0.43
13:A:806:CLA:HBA1	13:A:806:CLA:H3A	1.67	0.43
13:A:809:CLA:H3A	13:A:809:CLA:HBA2	1.56	0.43
2:B:730:ALA:O	2:B:734:SER:OG	2.31	0.43
13:B:825:CLA:H61	16:F:202:BCR:HC32	2.00	0.43
13:B:833:CLA:HBA2	14:B:834:PQN:H251	2.00	0.43
4:D:151:ASP:O	4:D:154:LYS:NZ	2.46	0.43
1:A:98:PHE:HB3	1:A:117:VAL:HG23	2.00	0.42
2:B:480:ASN:HB3	2:B:483:SER:HB2	2.01	0.42
13:B:823:CLA:H161	13:B:823:CLA:H192	1.85	0.42
5:E:44:ASN:OD1	5:E:44:ASN:N	2.52	0.42
6:F:99:ASP:OD1	6:F:99:ASP:N	2.50	0.42
1:A:651:LEU:HD11	12:A:801:CL0:H43	2.00	0.42
13:A:807:CLA:HBB2	16:A:848:BCR:H272	2.00	0.42
13:A:820:CLA:H102	13:A:820:CLA:H61	1.80	0.42
13:A:837:CLA:HMB1	16:A:850:BCR:H292	2.01	0.42
2:B:129:MET:O	2:B:130:ARG:NH1	2.47	0.42
9:K:143:LEU:HB2	16:K:202:BCR:H24C	2.01	0.42
16:A:847:BCR:H362	16:A:848:BCR:H10C	2.01	0.42
1:A:190:TRP:HH2	13:A:811:CLA:HMB3	1.83	0.42
3:C:81:TYR:HB3	4:D:96:LEU:HD11	2.02	0.42
5:E:17:TRP:NE1	5:E:42:LYS:O	2.51	0.42
10:L:35:LEU:HD23	10:L:35:LEU:HA	1.93	0.42
1:A:540:ALA:HB2	13:A:839:CLA:HMA1	2.01	0.42
14:A:845:PQN:H161	16:F:201:BCR:H382	2.01	0.42
2:B:273:ILE:HG23	13:B:818:CLA:HMA3	2.00	0.42
13:B:810:CLA:H141	13:B:810:CLA:H162	1.93	0.42
13:A:802:CLA:H171	13:B:811:CLA:HMC2	2.02	0.42
13:A:815:CLA:HBA1	13:A:815:CLA:H3A	1.96	0.42
6:F:124:TRP:HE3	16:F:202:BCR:HC21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:94:LEU:HB3	10:L:124:VAL:HG22	2.02	0.42
13:B:809:CLA:H71	13:B:809:CLA:HBB1	2.02	0.42
1:A:291:LEU:HD23	1:A:291:LEU:HA	1.94	0.42
13:A:803:CLA:HMB1	13:A:803:CLA:HBB1	2.01	0.42
2:B:341:LEU:HD21	13:B:806:CLA:H51	2.02	0.42
8:J:28:ILE:HD13	8:J:28:ILE:HA	1.94	0.42
1:A:487:VAL:HA	1:A:490:VAL:HG22	2.02	0.42
13:A:809:CLA:H72	13:A:829:CLA:H92	2.02	0.42
2:B:579:PHE:HE1	13:B:823:CLA:HAC2	1.85	0.42
13:B:802:CLA:H41	13:B:802:CLA:H61	1.75	0.42
4:D:198:GLY:N	5:E:14:GLU:OE1	2.52	0.42
1:A:121:ILE:O	1:A:123:GLY:N	2.52	0.41
1:A:208:LEU:HD22	16:A:847:BCR:H361	2.02	0.41
1:A:706:ASN:HB3	6:F:181:ILE:HG23	2.01	0.41
13:A:834:CLA:H2	13:B:833:CLA:H18	2.02	0.41
16:B:836:BCR:H24C	16:B:836:BCR:H371	1.81	0.41
16:A:848:BCR:H361	16:A:848:BCR:H20C	1.83	0.41
2:B:51:PHE:CE2	13:B:812:CLA:HBB1	2.54	0.41
1:A:57:HIS:HB3	13:A:806:CLA:HAB	2.01	0.41
16:A:847:BCR:H15C	16:A:847:BCR:H351	1.91	0.41
2:B:467:HIS:CE1	13:B:827:CLA:NB	2.87	0.41
16:B:835:BCR:H20C	16:B:835:BCR:H361	1.85	0.41
1:A:664:SER:O	1:A:667:SER:OG	2.29	0.41
13:B:824:CLA:H42	16:F:202:BCR:H353	2.02	0.41
7:I:32:ASP:OD1	7:I:32:ASP:N	2.52	0.41
1:A:484:ALA:HA	13:A:838:CLA:HBA1	2.02	0.41
1:A:745:HIS:CE1	13:A:829:CLA:HMB2	2.54	0.41
13:B:813:CLA:H161	13:B:822:CLA:HMD2	2.01	0.41
6:F:111:PRO:HB3	16:J:104:BCR:H362	2.03	0.41
13:A:840:CLA:H143	13:A:840:CLA:H203	2.01	0.41
13:B:801:CLA:H143	13:B:801:CLA:H161	1.90	0.41
3:C:11:CYS:HB3	3:C:39:ILE:HG13	2.01	0.41
1:A:693:TYR:CE1	2:B:539:LYS:HD2	2.56	0.41
13:B:804:CLA:H203	13:B:804:CLA:H162	1.80	0.41
1:A:112:LYS:HB2	1:A:131:VAL:HG22	2.02	0.41
2:B:592:TRP:CD1	13:B:802:CLA:H151	2.56	0.41
13:B:817:CLA:H93	13:B:817:CLA:H62	1.80	0.41
1:A:200:HIS:CG	13:A:814:CLA:HMC2	2.55	0.41
1:A:441:LEU:HG	1:A:548:LEU:HB2	2.02	0.41
1:A:443:TRP:NE1	13:A:834:CLA:OBD	2.48	0.41
13:A:840:CLA:H142	13:A:840:CLA:H111	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:840:CLA:H18	13:A:840:CLA:H151	1.83	0.41
2:B:355:ILE:HD11	13:B:820:CLA:HMC2	2.02	0.41
6:F:73:LYS:HE2	8:J:33:PRO:HG3	2.02	0.41
1:A:375:PRO:HA	1:A:376:PRO:HD3	1.89	0.41
1:A:685:MET:O	1:A:689:SER:OG	2.28	0.41
13:B:803:CLA:H201	16:J:102:BCR:H362	2.03	0.41
1:A:515:VAL:HG13	1:A:522:ALA:HB3	2.03	0.40
1:A:615:GLN:HB3	1:A:632:THR:HG23	2.03	0.40
13:B:833:CLA:H121	16:I:101:BCR:H19C	2.02	0.40
13:A:828:CLA:H203	13:A:836:CLA:H62	2.02	0.40
2:B:527:ALA:HB1	13:B:830:CLA:HMB3	2.02	0.40
11:M:8:PHE:HD1	16:M:101:BCR:H401	1.85	0.40
2:B:209:TRP:HH2	16:B:835:BCR:H16C	1.87	0.40
13:B:830:CLA:H121	13:B:830:CLA:HMC2	2.02	0.40
13:J:101:CLA:HBB1	13:J:101:CLA:HHC	2.02	0.40
10:L:84:VAL:HB	10:L:135:VAL:HG11	2.01	0.40
16:M:101:BCR:H21C	16:M:101:BCR:H24C	1.87	0.40
13:A:833:CLA:H122	13:A:833:CLA:H8	1.92	0.40
13:B:820:CLA:H72	13:B:820:CLA:H111	1.91	0.40
14:B:834:PQN:H111	14:B:834:PQN:H2M1	1.96	0.40
13:A:835:CLA:H142	13:A:835:CLA:H112	1.98	0.40
2:B:477:LEU:HD23	2:B:477:LEU:HA	1.94	0.40
13:B:811:CLA:H152	10:L:88:VAL:HG21	2.04	0.40
13:L:203:CLA:H142	13:L:203:CLA:H112	1.80	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	737/752 (98%)	692 (94%)	44 (6%)	1 (0%)	51 81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	702/737 (95%)	670 (95%)	32 (5%)	0	100	100
3	C	78/81 (96%)	75 (96%)	2 (3%)	1 (1%)	12	40
4	D	137/220 (62%)	110 (80%)	25 (18%)	2 (2%)	10	38
5	E	60/70 (86%)	53 (88%)	7 (12%)	0	100	100
6	F	159/186 (86%)	153 (96%)	5 (3%)	1 (1%)	25	57
7	I	28/35 (80%)	27 (96%)	1 (4%)	0	100	100
8	J	35/40 (88%)	34 (97%)	1 (3%)	0	100	100
9	K	55/157 (35%)	53 (96%)	2 (4%)	0	100	100
10	L	129/146 (88%)	116 (90%)	13 (10%)	0	100	100
11	M	27/31 (87%)	27 (100%)	0	0	100	100
All	All	2147/2455 (88%)	2010 (94%)	132 (6%)	5 (0%)	50	77

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	122	VAL
3	C	63	LEU
4	D	126	ILE
4	D	165	PRO
6	F	100	GLY

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	598/610 (98%)	596 (100%)	2 (0%)	92	96
2	B	574/596 (96%)	571 (100%)	3 (0%)	88	93
3	C	67/68 (98%)	66 (98%)	1 (2%)	65	81
4	D	114/171 (67%)	114 (100%)	0	100	100
5	E	58/65 (89%)	58 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	F	133/156 (85%)	132 (99%)	1 (1%)	81 89
7	I	27/31 (87%)	27 (100%)	0	100 100
8	J	32/35 (91%)	32 (100%)	0	100 100
9	K	40/103 (39%)	40 (100%)	0	100 100
10	L	99/111 (89%)	99 (100%)	0	100 100
11	M	21/23 (91%)	21 (100%)	0	100 100
All	All	1763/1969 (90%)	1756 (100%)	7 (0%)	91 95

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	56	VAL
1	A	232	VAL
2	B	256	THR
2	B	580	TYR
2	B	634	LEU
3	C	63	LEU
6	F	127	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	51	ASN
1	A	193	ASN
1	A	259	GLN
1	A	350	HIS
1	A	615	GLN
1	A	715	GLN
2	B	98	GLN
2	B	127	GLN
2	B	262	HIS
2	B	350	GLN
2	B	403	ASN
2	B	479	ASN
2	B	606	GLN
2	B	613	ASN
2	B	644	ASN
2	B	675	GLN
3	C	16	GLN

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Mol	Chain	Res	Type
8	J	29	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 monosaccharides in this entry.

5.6 Ligand geometry

111 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	$\#\|Z\| > 2$
13	CLA	A	805	-	45,53,73	2.41	16 (35%)	52,89,113	3.21	26 (50%)
13	CLA	A	842	-	51,59,73	2.29	16 (31%)	59,96,113	3.17	30 (50%)
13	CLA	B	809	-	65,73,73	1.96	16 (24%)	76,113,113	2.73	28 (36%)
16	BCR	J	102	-	41,41,41	1.13	2 (4%)	56,56,56	1.30	7 (12%)
13	CLA	A	824	-	51,59,73	2.26	17 (33%)	59,96,113	3.02	28 (47%)
13	CLA	A	826	-	65,73,73	1.93	16 (24%)	76,113,113	2.57	26 (34%)
13	CLA	A	828	-	65,73,73	1.94	15 (23%)	76,113,113	2.74	27 (35%)
13	CLA	B	817	-	59,67,73	2.12	16 (27%)	68,105,113	2.87	26 (38%)
13	CLA	A	814	-	45,53,73	2.41	17 (37%)	52,89,113	3.09	24 (46%)
13	CLA	A	808	-	51,59,73	2.31	15 (29%)	59,96,113	2.96	27 (45%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CLA	A	811	-	45,53,73	2.39	17 (37%)	52,89,113	3.18	24 (46%)
13	CLA	A	817	-	49,57,73	2.31	16 (32%)	55,93,113	3.07	24 (43%)
13	CLA	B	822	-	65,73,73	1.98	16 (24%)	76,113,113	2.63	28 (36%)
13	CLA	A	810	1	45,53,73	2.35	17 (37%)	52,89,113	3.07	25 (48%)
13	CLA	A	813	-	54,62,73	2.19	16 (29%)	62,99,113	2.92	26 (41%)
13	CLA	B	814	-	56,64,73	2.15	17 (30%)	65,102,113	2.88	28 (43%)
13	CLA	A	838	-	51,59,73	2.27	18 (35%)	59,96,113	3.07	29 (49%)
13	CLA	B	827	-	45,53,73	2.46	18 (40%)	52,89,113	3.17	25 (48%)
13	CLA	B	821	-	65,73,73	1.95	16 (24%)	76,113,113	2.75	32 (42%)
13	CLA	A	812	-	65,73,73	2.01	16 (24%)	76,113,113	2.75	28 (36%)
13	CLA	B	833	-	65,73,73	1.98	16 (24%)	76,113,113	2.71	28 (36%)
16	BCR	B	836	-	41,41,41	1.13	2 (4%)	56,56,56	1.37	8 (14%)
16	BCR	M	101	-	41,41,41	1.11	2 (4%)	56,56,56	1.26	6 (10%)
13	CLA	A	809	1	65,73,73	2.00	17 (26%)	76,113,113	2.70	26 (34%)
13	CLA	A	818	-	65,73,73	1.98	15 (23%)	76,113,113	2.77	25 (32%)
16	BCR	A	849	-	41,41,41	1.15	2 (4%)	56,56,56	1.33	8 (14%)
16	BCR	L	206	-	41,41,41	1.05	2 (4%)	56,56,56	1.37	8 (14%)
13	CLA	A	825	-	47,55,73	2.39	15 (31%)	54,91,113	3.07	26 (48%)
16	BCR	J	103	-	41,41,41	1.17	3 (7%)	56,56,56	1.38	9 (16%)
12	CL0	A	801	-	65,73,73	1.92	17 (26%)	76,113,113	2.79	31 (40%)
14	PQN	B	834	-	34,34,34	1.44	2 (5%)	42,45,45	1.16	5 (11%)
13	CLA	B	803	-	65,73,73	1.94	18 (27%)	76,113,113	2.87	29 (38%)
13	CLA	B	824	-	49,57,73	2.35	16 (32%)	55,93,113	3.31	27 (49%)
16	BCR	A	848	-	41,41,41	1.09	2 (4%)	56,56,56	1.49	12 (21%)
13	CLA	A	821	-	61,69,73	2.05	15 (24%)	71,108,113	2.82	27 (38%)
13	CLA	A	822	-	65,73,73	1.97	17 (26%)	76,113,113	2.67	26 (34%)
13	CLA	A	820	-	65,73,73	2.03	15 (23%)	76,113,113	2.71	31 (40%)
13	CLA	B	808	-	65,73,73	1.98	16 (24%)	76,113,113	2.78	29 (38%)
13	CLA	B	831	-	47,55,73	2.33	18 (38%)	54,91,113	3.22	25 (46%)
16	BCR	L	201	-	41,41,41	1.21	2 (4%)	56,56,56	1.28	5 (8%)
13	CLA	A	829	-	65,73,73	1.98	16 (24%)	76,113,113	2.80	28 (36%)
14	PQN	A	845	-	34,34,34	1.52	2 (5%)	42,45,45	1.09	3 (7%)
13	CLA	F	203	6	45,53,73	2.46	17 (37%)	52,89,113	3.14	24 (46%)
17	LHG	A	852	-	48,48,48	0.71	1 (2%)	51,54,54	1.30	7 (13%)
13	CLA	B	819	-	46,54,73	2.44	17 (36%)	53,90,113	3.17	25 (47%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CLA	B	810	2	65,73,73	1.96	16 (24%)	76,113,113	2.66	28 (36%)
13	CLA	A	823	-	65,73,73	1.99	16 (24%)	76,113,113	2.77	27 (35%)
16	BCR	K	202	-	41,41,41	1.18	3 (7%)	56,56,56	1.35	9 (16%)
13	CLA	B	813	-	65,73,73	2.02	18 (27%)	76,113,113	2.74	27 (35%)
13	CLA	A	815	-	45,53,73	2.40	16 (35%)	52,89,113	3.12	25 (48%)
13	CLA	A	835	-	65,73,73	1.94	16 (24%)	76,113,113	2.85	30 (39%)
13	CLA	B	804	-	65,73,73	1.95	17 (26%)	76,113,113	2.67	27 (35%)
13	CLA	J	101	8	45,53,73	2.46	16 (35%)	52,89,113	3.15	24 (46%)
13	CLA	A	807	-	65,73,73	1.96	16 (24%)	76,113,113	2.80	29 (38%)
16	BCR	A	850	-	41,41,41	1.20	2 (4%)	56,56,56	1.37	7 (12%)
13	CLA	B	806	-	65,73,73	1.98	16 (24%)	76,113,113	2.67	24 (31%)
16	BCR	A	847	-	41,41,41	1.14	2 (4%)	56,56,56	1.35	8 (14%)
13	CLA	A	804	-	45,53,73	2.39	15 (33%)	52,89,113	3.18	25 (48%)
13	CLA	B	818	-	60,68,73	2.06	16 (26%)	70,107,113	2.83	29 (41%)
13	CLA	L	204	-	52,60,73	2.26	16 (30%)	60,97,113	3.05	27 (45%)
13	CLA	B	812	-	45,53,73	2.43	16 (35%)	52,89,113	3.18	25 (48%)
13	CLA	A	841	-	65,73,73	2.03	18 (27%)	76,113,113	2.70	29 (38%)
15	SF4	A	846	1,2	0,12,12	-	-	-		
16	BCR	I	101	-	41,41,41	1.10	2 (4%)	56,56,56	1.28	5 (8%)
13	CLA	B	801	-	65,73,73	1.99	17 (26%)	76,113,113	2.64	29 (38%)
13	CLA	A	819	-	54,62,73	2.21	17 (31%)	62,99,113	2.90	30 (48%)
13	CLA	B	807	-	65,73,73	1.98	16 (24%)	76,113,113	2.72	28 (36%)
13	CLA	B	829	-	46,54,73	2.33	16 (34%)	53,90,113	3.18	26 (49%)
13	CLA	L	203	-	65,73,73	1.95	17 (26%)	76,113,113	2.82	24 (31%)
13	CLA	A	816	-	45,53,73	2.43	16 (35%)	52,89,113	3.21	23 (44%)
16	BCR	J	104	-	41,41,41	1.10	2 (4%)	56,56,56	1.28	7 (12%)
13	CLA	B	823	-	65,73,73	2.03	17 (26%)	76,113,113	2.76	28 (36%)
13	CLA	A	831	-	65,73,73	1.98	16 (24%)	76,113,113	2.82	26 (34%)
13	CLA	B	802	-	65,73,73	1.89	16 (24%)	76,113,113	2.91	33 (43%)
13	CLA	B	815	-	45,53,73	2.42	17 (37%)	52,89,113	3.17	23 (44%)
13	CLA	A	833	-	65,73,73	1.98	15 (23%)	76,113,113	2.73	27 (35%)
13	CLA	A	806	-	65,73,73	1.93	14 (21%)	76,113,113	2.81	31 (40%)
13	CLA	A	839	-	56,64,73	2.12	15 (26%)	65,102,113	2.97	28 (43%)
16	BCR	B	835	-	41,41,41	1.11	2 (4%)	56,56,56	1.27	5 (8%)
13	CLA	K	203	-	45,53,73	2.40	18 (40%)	52,89,113	3.15	27 (51%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CLA	A	832	-	50,58,73	2.28	16 (32%)	58,95,113	3.03	30 (51%)
15	SF4	C	101	3	0,12,12	-	-	-		
13	CLA	A	837	1	45,53,73	2.46	16 (35%)	52,89,113	3.28	25 (48%)
13	CLA	B	805	2	54,62,73	2.17	15 (27%)	62,99,113	3.01	28 (45%)
16	BCR	F	202	-	41,41,41	1.11	2 (4%)	56,56,56	1.26	9 (16%)
13	CLA	B	820	-	65,73,73	2.00	18 (27%)	76,113,113	2.72	28 (36%)
13	CLA	A	830	-	65,73,73	1.94	16 (24%)	76,113,113	2.56	29 (38%)
16	BCR	B	837	-	41,41,41	1.21	4 (9%)	56,56,56	1.22	7 (12%)
17	LHG	A	853	13	26,26,48	0.84	0	29,32,54	1.32	3 (10%)
13	CLA	A	844	17	52,60,73	2.25	16 (30%)	60,97,113	3.10	25 (41%)
13	CLA	A	827	-	55,63,73	2.13	16 (29%)	64,101,113	3.02	29 (45%)
13	CLA	B	816	-	55,63,73	2.20	18 (32%)	64,101,113	2.98	27 (42%)
13	CLA	L	202	10	46,54,73	2.44	16 (34%)	53,90,113	3.24	22 (41%)
16	BCR	L	205	-	41,41,41	1.14	3 (7%)	56,56,56	1.30	6 (10%)
13	CLA	K	201	-	42,49,73	2.38	13 (30%)	48,83,113	3.21	22 (45%)
13	CLA	A	840	-	65,73,73	1.97	17 (26%)	76,113,113	2.80	29 (38%)
13	CLA	A	836	1	54,62,73	2.16	16 (29%)	62,99,113	2.93	26 (41%)
13	CLA	B	832	-	65,73,73	2.04	17 (26%)	76,113,113	2.71	28 (36%)
13	CLA	A	802	-	65,73,73	1.95	16 (24%)	76,113,113	2.87	30 (39%)
18	LMG	B	838	-	55,55,55	0.78	1 (1%)	63,63,63	1.42	7 (11%)
15	SF4	C	102	3	0,12,12	-	-	-		
13	CLA	A	803	-	45,53,73	2.43	17 (37%)	52,89,113	3.10	26 (50%)
13	CLA	B	825	-	65,73,73	1.93	16 (24%)	76,113,113	2.91	30 (39%)
13	CLA	A	834	-	65,73,73	1.99	15 (23%)	76,113,113	2.74	30 (39%)
13	CLA	A	843	-	65,73,73	1.99	17 (26%)	76,113,113	2.68	27 (35%)
13	CLA	B	811	-	65,73,73	2.02	18 (27%)	76,113,113	2.70	28 (36%)
16	BCR	A	851	-	41,41,41	1.13	3 (7%)	56,56,56	1.27	6 (10%)
16	BCR	F	201	-	41,41,41	1.20	2 (4%)	56,56,56	1.34	6 (10%)
13	CLA	B	828	-	45,53,73	2.46	17 (37%)	52,89,113	3.35	26 (50%)
13	CLA	B	826	-	58,66,73	2.14	16 (27%)	67,104,113	2.92	28 (41%)
13	CLA	B	830	-	65,73,73	1.97	14 (21%)	76,113,113	2.80	29 (38%)

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
13	CLA	A	805	-	1/1/11/20	2/13/91/115	-
13	CLA	A	842	-	1/1/12/20	6/21/99/115	-
13	CLA	B	809	-	1/1/15/20	7/37/115/115	-
16	BCR	J	102	-	-	13/29/63/63	0/2/2/2
13	CLA	A	824	-	-	10/21/99/115	-
13	CLA	A	826	-	1/1/15/20	15/37/115/115	-
13	CLA	A	828	-	1/1/15/20	14/37/115/115	-
13	CLA	B	817	-	1/1/13/20	14/30/108/115	-
13	CLA	A	814	-	1/1/11/20	10/13/91/115	-
13	CLA	A	808	-	1/1/12/20	7/21/99/115	-
13	CLA	A	811	-	1/1/11/20	7/13/91/115	-
13	CLA	A	817	-	-	3/18/96/115	-
13	CLA	B	822	-	1/1/15/20	14/37/115/115	-
13	CLA	A	810	1	1/1/11/20	5/13/91/115	-
13	CLA	A	813	-	1/1/12/20	5/24/102/115	-
13	CLA	B	814	-	1/1/13/20	6/27/105/115	-
13	CLA	A	838	-	1/1/12/20	7/21/99/115	-
13	CLA	B	827	-	-	1/13/91/115	-
13	CLA	B	821	-	1/1/15/20	17/37/115/115	-
13	CLA	A	812	-	1/1/15/20	10/37/115/115	-
13	CLA	B	833	-	-	17/37/115/115	-
16	BCR	B	836	-	-	10/29/63/63	0/2/2/2
16	BCR	M	101	-	-	14/29/63/63	0/2/2/2
13	CLA	A	809	1	1/1/15/20	17/37/115/115	-
13	CLA	A	818	-	-	10/37/115/115	-
16	BCR	A	849	-	-	11/29/63/63	0/2/2/2
16	BCR	L	206	-	-	18/29/63/63	0/2/2/2
13	CLA	A	825	-	1/1/11/20	3/16/94/115	-
16	BCR	J	103	-	-	17/29/63/63	0/2/2/2
12	CL0	A	801	-	2/2/20/25	5/37/135/135	-
14	PQN	B	834	-	-	9/23/43/43	0/2/2/2
13	CLA	B	803	-	1/1/15/20	14/37/115/115	-
13	CLA	B	824	-	-	9/18/96/115	-
16	BCR	A	848	-	-	10/29/63/63	0/2/2/2
13	CLA	A	821	-	1/1/14/20	7/33/111/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	A	822	-	1/1/15/20	12/37/115/115	-
13	CLA	A	820	-	1/1/15/20	12/37/115/115	-
13	CLA	B	808	-	1/1/15/20	9/37/115/115	-
13	CLA	B	831	-	1/1/11/20	2/16/94/115	-
16	BCR	L	201	-	-	9/29/63/63	0/2/2/2
13	CLA	A	829	-	1/1/15/20	16/37/115/115	-
14	PQN	A	845	-	-	2/23/43/43	0/2/2/2
13	CLA	F	203	6	1/1/11/20	2/13/91/115	-
17	LHG	A	852	-	-	18/53/53/53	-
13	CLA	B	819	-	1/1/11/20	6/15/93/115	-
13	CLA	B	810	2	1/1/15/20	11/37/115/115	-
13	CLA	A	823	-	-	15/37/115/115	-
16	BCR	K	202	-	-	8/29/63/63	0/2/2/2
13	CLA	B	813	-	1/1/15/20	18/37/115/115	-
13	CLA	A	815	-	1/1/11/20	5/13/91/115	-
13	CLA	A	835	-	1/1/15/20	14/37/115/115	-
13	CLA	B	804	-	1/1/15/20	13/37/115/115	-
13	CLA	J	101	8	1/1/11/20	8/13/91/115	-
13	CLA	A	807	-	1/1/15/20	11/37/115/115	-
16	BCR	A	850	-	-	15/29/63/63	0/2/2/2
13	CLA	B	806	-	1/1/15/20	14/37/115/115	-
16	BCR	A	847	-	-	11/29/63/63	0/2/2/2
13	CLA	A	804	-	1/1/11/20	6/13/91/115	-
13	CLA	B	818	-	1/1/14/20	5/31/109/115	-
13	CLA	L	204	-	1/1/12/20	7/22/100/115	-
13	CLA	B	812	-	1/1/11/20	2/13/91/115	-
13	CLA	A	841	-	1/1/15/20	12/37/115/115	-
15	SF4	A	846	1,2	-	-	0/6/5/5
16	BCR	I	101	-	-	7/29/63/63	0/2/2/2
13	CLA	B	801	-	1/1/15/20	10/37/115/115	-
13	CLA	A	819	-	1/1/12/20	8/24/102/115	-
13	CLA	B	807	-	1/1/15/20	13/37/115/115	-
13	CLA	B	829	-	1/1/11/20	7/15/93/115	-
13	CLA	L	203	-	-	13/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	A	816	-	-	7/13/91/115	-
16	BCR	J	104	-	-	9/29/63/63	0/2/2/2
13	CLA	B	823	-	1/1/15/20	16/37/115/115	-
13	CLA	A	831	-	1/1/15/20	11/37/115/115	-
13	CLA	B	802	-	1/1/15/20	17/37/115/115	-
13	CLA	B	815	-	1/1/11/20	6/13/91/115	-
13	CLA	A	833	-	1/1/15/20	9/37/115/115	-
13	CLA	A	806	-	1/1/15/20	12/37/115/115	-
13	CLA	A	839	-	1/1/13/20	9/27/105/115	-
16	BCR	B	835	-	-	11/29/63/63	0/2/2/2
13	CLA	K	203	-	1/1/11/20	3/13/91/115	-
13	CLA	A	832	-	-	6/19/97/115	-
15	SF4	C	101	3	-	-	0/6/5/5
13	CLA	A	837	1	1/1/11/20	7/13/91/115	-
13	CLA	B	805	2	1/1/12/20	9/24/102/115	-
16	BCR	F	202	-	-	13/29/63/63	0/2/2/2
13	CLA	B	820	-	1/1/15/20	10/37/115/115	-
13	CLA	A	830	-	1/1/15/20	13/37/115/115	-
16	BCR	B	837	-	-	9/29/63/63	0/2/2/2
17	LHG	A	853	13	-	12/31/31/53	-
13	CLA	A	844	17	1/1/12/20	13/22/100/115	-
13	CLA	A	827	-	1/1/13/20	7/25/103/115	-
13	CLA	B	816	-	1/1/13/20	5/25/103/115	-
13	CLA	L	202	10	-	5/15/93/115	-
16	BCR	L	205	-	-	11/29/63/63	0/2/2/2
13	CLA	K	201	-	1/1/9/20	1/7/81/115	-
13	CLA	A	840	-	1/1/15/20	16/37/115/115	-
13	CLA	A	836	1	-	9/24/102/115	-
13	CLA	B	832	-	-	9/37/115/115	-
13	CLA	A	802	-	1/1/15/20	6/37/115/115	-
18	LMG	B	838	-	-	27/50/70/70	0/1/1/1
15	SF4	C	102	3	-	-	0/6/5/5
13	CLA	A	803	-	1/1/11/20	3/13/91/115	-
13	CLA	B	825	-	1/1/15/20	12/37/115/115	-
13	CLA	A	834	-	1/1/15/20	14/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	A	843	-	1/1/15/20	10/37/115/115	-
13	CLA	B	811	-	1/1/15/20	12/37/115/115	-
16	BCR	A	851	-	-	21/29/63/63	0/2/2/2
16	BCR	F	201	-	-	12/29/63/63	0/2/2/2
13	CLA	B	828	-	1/1/11/20	2/13/91/115	-
13	CLA	B	826	-	1/1/13/20	13/29/107/115	-
13	CLA	B	830	-	1/1/15/20	7/37/115/115	-

All (1417) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	845	PQN	C3-C2	7.37	1.48	1.35
14	B	834	PQN	C3-C2	6.96	1.47	1.35
13	A	838	CLA	C3B-C2B	6.25	1.49	1.40
13	B	819	CLA	C3B-C2B	6.06	1.48	1.40
13	A	842	CLA	C3B-C2B	5.97	1.48	1.40
13	A	829	CLA	C3B-C2B	5.95	1.48	1.40
13	A	803	CLA	C3B-C2B	5.87	1.48	1.40
13	L	202	CLA	C3B-C2B	5.83	1.48	1.40
13	B	803	CLA	C3B-C2B	5.80	1.48	1.40
13	B	824	CLA	C3B-C2B	5.80	1.48	1.40
13	A	823	CLA	C3B-C2B	5.77	1.48	1.40
13	B	816	CLA	C3B-C2B	5.76	1.48	1.40
13	B	801	CLA	C3B-C2B	5.75	1.48	1.40
13	A	837	CLA	C3B-C2B	5.74	1.48	1.40
13	B	813	CLA	C3B-C2B	5.72	1.48	1.40
13	B	828	CLA	C3B-C2B	5.71	1.48	1.40
13	F	203	CLA	C3B-C2B	5.71	1.48	1.40
13	A	821	CLA	C3B-C2B	5.69	1.48	1.40
13	K	203	CLA	C3B-C2B	5.68	1.48	1.40
13	K	201	CLA	C3B-C2B	5.67	1.48	1.40
13	L	202	CLA	C3C-C2C	5.67	1.48	1.36
13	B	821	CLA	C3B-C2B	5.65	1.48	1.40
13	B	814	CLA	C3B-C2B	5.63	1.48	1.40
13	B	831	CLA	C3B-C2B	5.63	1.48	1.40
13	B	832	CLA	C3B-C2B	5.61	1.48	1.40
13	B	811	CLA	C3B-C2B	5.60	1.48	1.40
13	J	101	CLA	C3B-C2B	5.58	1.48	1.40
13	A	826	CLA	C3B-C2B	5.58	1.48	1.40
13	A	824	CLA	C3B-C2B	5.56	1.48	1.40
13	B	827	CLA	C3B-C2B	5.56	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	809	CLA	C3B-C2B	5.52	1.48	1.40
13	A	825	CLA	C3B-C2B	5.51	1.48	1.40
13	L	204	CLA	C3B-C2B	5.50	1.48	1.40
13	A	818	CLA	C3B-C2B	5.49	1.48	1.40
13	A	834	CLA	C3B-C2B	5.49	1.48	1.40
13	A	841	CLA	C3B-C2B	5.49	1.48	1.40
13	A	819	CLA	C3B-C2B	5.48	1.48	1.40
13	B	820	CLA	C3B-C2B	5.47	1.48	1.40
12	A	801	CL0	C3B-C2B	5.46	1.48	1.40
13	B	807	CLA	C3B-C2B	5.45	1.47	1.40
13	A	813	CLA	C3B-C2B	5.44	1.47	1.40
13	A	831	CLA	C3B-C2B	5.43	1.47	1.40
13	A	812	CLA	C3B-C2B	5.43	1.47	1.40
13	A	806	CLA	C3B-C2B	5.41	1.47	1.40
13	B	815	CLA	C3B-C2B	5.41	1.47	1.40
13	A	844	CLA	C3C-C2C	5.40	1.48	1.36
13	B	806	CLA	C3C-C2C	5.38	1.48	1.36
13	B	804	CLA	C3B-C2B	5.38	1.47	1.40
13	A	804	CLA	C3B-C2B	5.38	1.47	1.40
13	A	816	CLA	C3B-C2B	5.36	1.47	1.40
13	A	839	CLA	C3B-C2B	5.35	1.47	1.40
13	A	844	CLA	C3B-C2B	5.35	1.47	1.40
13	B	812	CLA	C3B-C2B	5.33	1.47	1.40
13	A	840	CLA	C3B-C2B	5.32	1.47	1.40
13	A	814	CLA	C3C-C2C	5.31	1.48	1.36
13	A	810	CLA	C3B-C2B	5.31	1.47	1.40
13	B	808	CLA	C3B-C2B	5.30	1.47	1.40
13	B	828	CLA	C3C-C2C	5.29	1.48	1.36
13	B	833	CLA	C3C-C2C	5.29	1.48	1.36
13	B	817	CLA	C3B-C2B	5.29	1.47	1.40
13	B	829	CLA	C3C-C2C	5.28	1.48	1.36
13	B	825	CLA	C3C-C2C	5.27	1.47	1.36
13	B	819	CLA	C3C-C2C	5.27	1.47	1.36
13	L	202	CLA	C1D-ND	5.27	1.44	1.37
13	B	827	CLA	C1D-ND	5.27	1.44	1.37
13	B	827	CLA	C3C-C2C	5.26	1.47	1.36
13	B	824	CLA	C3C-C2C	5.26	1.47	1.36
13	L	203	CLA	C3C-C2C	5.25	1.47	1.36
13	A	812	CLA	C3C-C2C	5.25	1.47	1.36
13	B	832	CLA	C3C-C2C	5.24	1.47	1.36
13	B	825	CLA	C3B-C2B	5.24	1.47	1.40
13	A	805	CLA	CHC-C1C	5.23	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	817	CLA	C3C-C2C	5.23	1.47	1.36
13	F	203	CLA	C3C-C2C	5.22	1.47	1.36
13	A	808	CLA	C1D-ND	5.22	1.44	1.37
13	A	830	CLA	C3C-C2C	5.22	1.47	1.36
13	A	837	CLA	C3C-C2C	5.22	1.47	1.36
13	A	817	CLA	C3C-C2C	5.22	1.47	1.36
13	A	808	CLA	C3C-C2C	5.22	1.47	1.36
13	B	829	CLA	C3B-C2B	5.21	1.47	1.40
13	B	831	CLA	C3C-C2C	5.21	1.47	1.36
13	A	815	CLA	C3C-C2C	5.21	1.47	1.36
13	B	826	CLA	C3C-C2C	5.21	1.47	1.36
13	A	820	CLA	C3C-C2C	5.20	1.47	1.36
13	A	824	CLA	C3C-C2C	5.20	1.47	1.36
13	B	812	CLA	C3C-C2C	5.20	1.47	1.36
13	B	808	CLA	C3C-C2C	5.20	1.47	1.36
13	A	816	CLA	C3C-C2C	5.20	1.47	1.36
13	B	823	CLA	C3B-C2B	5.19	1.47	1.40
13	B	823	CLA	C3C-C2C	5.19	1.47	1.36
13	B	822	CLA	C3B-C2B	5.18	1.47	1.40
13	A	809	CLA	C3C-C2C	5.18	1.47	1.36
13	B	826	CLA	C3B-C2B	5.18	1.47	1.40
13	J	101	CLA	C1D-ND	5.16	1.44	1.37
13	A	831	CLA	C3C-C2C	5.15	1.47	1.36
13	A	843	CLA	C3C-C2C	5.15	1.47	1.36
13	K	203	CLA	C3C-C2C	5.15	1.47	1.36
13	A	822	CLA	C3C-C2C	5.15	1.47	1.36
13	A	835	CLA	C1D-ND	5.15	1.44	1.37
13	J	101	CLA	C3C-C2C	5.14	1.47	1.36
13	A	840	CLA	C3C-C2C	5.14	1.47	1.36
13	A	805	CLA	C3C-C2C	5.14	1.47	1.36
13	A	832	CLA	C3B-C2B	5.14	1.47	1.40
13	A	834	CLA	C3C-C2C	5.13	1.47	1.36
13	A	841	CLA	O2D-CGD	5.13	1.45	1.33
13	B	830	CLA	C3C-C2C	5.13	1.47	1.36
13	B	817	CLA	O2D-CGD	5.12	1.45	1.33
13	A	813	CLA	C3C-C2C	5.12	1.47	1.36
13	B	803	CLA	C3C-C2C	5.12	1.47	1.36
13	B	816	CLA	O2D-CGD	5.12	1.45	1.33
13	A	811	CLA	C3C-C2C	5.12	1.47	1.36
13	A	805	CLA	C3B-C2B	5.11	1.47	1.40
13	B	815	CLA	C1D-ND	5.11	1.44	1.37
13	K	201	CLA	C3C-C2C	5.11	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	823	CLA	C3C-C2C	5.10	1.47	1.36
13	B	814	CLA	C3C-C2C	5.10	1.47	1.36
13	A	839	CLA	C3C-C2C	5.10	1.47	1.36
13	A	819	CLA	C3C-C2C	5.10	1.47	1.36
13	A	821	CLA	C3C-C2C	5.10	1.47	1.36
13	B	822	CLA	C3C-C2C	5.09	1.47	1.36
13	A	832	CLA	C3C-C2C	5.09	1.47	1.36
13	B	811	CLA	C3C-C2C	5.09	1.47	1.36
13	A	823	CLA	CHC-C1C	5.09	1.48	1.35
13	A	817	CLA	C3B-C2B	5.09	1.47	1.40
13	B	815	CLA	C3C-C2C	5.09	1.47	1.36
13	B	807	CLA	C3C-C2C	5.09	1.47	1.36
13	B	830	CLA	C3B-C2B	5.09	1.47	1.40
13	A	828	CLA	C3B-C2B	5.09	1.47	1.40
13	F	203	CLA	O2D-CGD	5.09	1.45	1.33
13	A	802	CLA	C3C-C2C	5.08	1.47	1.36
13	B	816	CLA	C1D-ND	5.08	1.44	1.37
13	B	825	CLA	CHC-C1C	5.08	1.48	1.35
13	A	825	CLA	C1D-ND	5.08	1.44	1.37
13	A	819	CLA	C1D-ND	5.07	1.44	1.37
13	A	841	CLA	C3C-C2C	5.07	1.47	1.36
13	A	807	CLA	C3B-C2B	5.07	1.47	1.40
13	A	833	CLA	C3C-C2C	5.07	1.47	1.36
13	A	816	CLA	C1D-ND	5.07	1.44	1.37
13	A	843	CLA	C3B-C2B	5.07	1.47	1.40
13	L	202	CLA	O2D-CGD	5.07	1.45	1.33
13	A	836	CLA	C3C-C2C	5.07	1.47	1.36
13	L	204	CLA	C3C-C2C	5.06	1.47	1.36
13	B	828	CLA	CHC-C1C	5.06	1.48	1.35
13	A	842	CLA	C3C-C2C	5.06	1.47	1.36
13	B	824	CLA	O2D-CGD	5.06	1.45	1.33
13	B	820	CLA	C1D-ND	5.06	1.44	1.37
13	A	803	CLA	CHC-C1C	5.06	1.47	1.35
13	A	827	CLA	CHC-C1C	5.05	1.47	1.35
13	A	817	CLA	C1D-ND	5.05	1.44	1.37
13	B	813	CLA	C3C-C2C	5.05	1.47	1.36
13	B	816	CLA	C3C-C2C	5.05	1.47	1.36
13	A	803	CLA	C3C-C2C	5.05	1.47	1.36
13	A	809	CLA	O2D-CGD	5.05	1.45	1.33
13	A	827	CLA	C3C-C2C	5.04	1.47	1.36
13	A	814	CLA	C3B-C2B	5.04	1.47	1.40
13	B	813	CLA	CHC-C1C	5.03	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	829	CLA	O2D-CGD	5.03	1.45	1.33
13	B	809	CLA	C3B-C2B	5.03	1.47	1.40
13	A	844	CLA	C1D-ND	5.03	1.44	1.37
13	B	821	CLA	O2D-CGD	5.03	1.45	1.33
13	B	828	CLA	C1D-ND	5.02	1.44	1.37
13	B	805	CLA	C3C-C2C	5.02	1.47	1.36
13	B	809	CLA	C3C-C2C	5.02	1.47	1.36
13	A	833	CLA	C3B-C2B	5.02	1.47	1.40
13	A	820	CLA	O2D-CGD	5.02	1.45	1.33
13	B	810	CLA	CHC-C1C	5.02	1.47	1.35
13	A	829	CLA	CHC-C1C	5.02	1.47	1.35
13	B	802	CLA	C3B-C2B	5.01	1.47	1.40
13	A	842	CLA	C1D-ND	5.01	1.43	1.37
13	B	807	CLA	O2D-CGD	5.01	1.45	1.33
13	B	805	CLA	C3B-C2B	5.01	1.47	1.40
13	B	819	CLA	CHC-C1C	5.01	1.47	1.35
13	K	201	CLA	C1D-ND	5.01	1.43	1.37
13	A	822	CLA	CHC-C1C	5.01	1.47	1.35
13	B	830	CLA	O2D-CGD	5.01	1.45	1.33
13	A	804	CLA	O2D-CGD	5.01	1.45	1.33
13	B	801	CLA	O2D-CGD	5.00	1.45	1.33
13	A	825	CLA	O2D-CGD	5.00	1.45	1.33
13	B	829	CLA	CHC-C1C	5.00	1.47	1.35
13	J	101	CLA	O2D-CGD	5.00	1.45	1.33
13	B	805	CLA	CHC-C1C	5.00	1.47	1.35
13	B	830	CLA	CHC-C1C	4.99	1.47	1.35
13	A	838	CLA	C3C-C2C	4.99	1.47	1.36
13	A	802	CLA	C3B-C2B	4.99	1.47	1.40
13	A	837	CLA	C1D-ND	4.99	1.43	1.37
13	F	203	CLA	C1D-ND	4.99	1.43	1.37
13	A	827	CLA	C3B-C2B	4.99	1.47	1.40
13	B	824	CLA	CHC-C1C	4.99	1.47	1.35
13	B	818	CLA	C3C-C2C	4.99	1.47	1.36
13	A	821	CLA	C1D-ND	4.99	1.43	1.37
13	A	837	CLA	CHC-C1C	4.98	1.47	1.35
13	B	832	CLA	O2D-CGD	4.98	1.45	1.33
13	B	832	CLA	C1D-ND	4.98	1.43	1.37
13	A	828	CLA	C3C-C2C	4.98	1.47	1.36
13	A	811	CLA	C3B-C2B	4.98	1.47	1.40
13	A	841	CLA	C1D-ND	4.98	1.43	1.37
13	K	201	CLA	CHC-C1C	4.98	1.47	1.35
13	A	804	CLA	C3C-C2C	4.97	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	843	CLA	O2D-CGD	4.97	1.45	1.33
13	A	804	CLA	C1D-ND	4.97	1.43	1.37
13	A	820	CLA	C3B-C2B	4.97	1.47	1.40
13	A	817	CLA	O2D-CGD	4.97	1.45	1.33
13	A	815	CLA	C1D-ND	4.96	1.43	1.37
13	L	204	CLA	C1D-ND	4.96	1.43	1.37
13	A	815	CLA	CHC-C1C	4.96	1.47	1.35
13	A	807	CLA	C1D-ND	4.96	1.43	1.37
13	A	805	CLA	O2D-CGD	4.95	1.45	1.33
13	B	806	CLA	C3B-C2B	4.95	1.47	1.40
13	A	818	CLA	O2D-CGD	4.95	1.45	1.33
13	A	834	CLA	O2D-CGD	4.95	1.45	1.33
13	B	821	CLA	CHC-C1C	4.95	1.47	1.35
13	B	820	CLA	O2D-CGD	4.95	1.45	1.33
13	A	810	CLA	C3C-C2C	4.95	1.47	1.36
13	A	803	CLA	O2D-CGD	4.95	1.45	1.33
13	A	832	CLA	O2D-CGD	4.94	1.45	1.33
13	A	814	CLA	CHC-C1C	4.94	1.47	1.35
13	A	822	CLA	C3B-C2B	4.93	1.47	1.40
13	B	817	CLA	CHC-C1C	4.93	1.47	1.35
13	B	810	CLA	C3C-C2C	4.93	1.47	1.36
13	B	820	CLA	CHC-C1C	4.93	1.47	1.35
13	A	828	CLA	C1D-ND	4.93	1.43	1.37
12	A	801	CL0	C3C-C2C	4.93	1.47	1.36
13	L	204	CLA	CHC-C1C	4.93	1.47	1.35
13	B	812	CLA	O2D-CGD	4.93	1.45	1.33
13	A	836	CLA	O2D-CGD	4.92	1.45	1.33
13	B	804	CLA	CHC-C1C	4.92	1.47	1.35
13	B	804	CLA	C3C-C2C	4.92	1.47	1.36
13	A	807	CLA	CHC-C1C	4.91	1.47	1.35
13	B	808	CLA	CHC-C1C	4.91	1.47	1.35
13	A	811	CLA	C1D-ND	4.91	1.43	1.37
13	B	826	CLA	CHC-C1C	4.91	1.47	1.35
13	L	202	CLA	CHC-C1C	4.91	1.47	1.35
13	B	805	CLA	O2D-CGD	4.91	1.45	1.33
12	A	801	CL0	O2D-CGD	4.91	1.45	1.33
13	B	812	CLA	C1D-ND	4.91	1.43	1.37
13	A	835	CLA	C3C-C2C	4.91	1.47	1.36
13	A	807	CLA	C3C-C2C	4.91	1.47	1.36
13	B	827	CLA	CHC-C1C	4.91	1.47	1.35
13	B	813	CLA	C1D-ND	4.90	1.43	1.37
13	A	812	CLA	C1D-ND	4.90	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	811	CLA	O2D-CGD	4.90	1.45	1.33
13	A	826	CLA	CHC-C1C	4.90	1.47	1.35
13	A	818	CLA	C1D-ND	4.90	1.43	1.37
13	A	808	CLA	O2D-CGD	4.90	1.45	1.33
13	B	832	CLA	CHC-C1C	4.90	1.47	1.35
13	A	809	CLA	CHC-C1C	4.89	1.47	1.35
13	A	830	CLA	CHC-C1C	4.89	1.47	1.35
13	A	818	CLA	C3C-C2C	4.89	1.47	1.36
13	A	844	CLA	CHC-C1C	4.89	1.47	1.35
13	A	812	CLA	O2D-CGD	4.89	1.45	1.33
13	B	820	CLA	C3C-C2C	4.89	1.47	1.36
13	B	818	CLA	O2D-CGD	4.89	1.45	1.33
13	A	842	CLA	CHC-C1C	4.89	1.47	1.35
13	B	817	CLA	C1D-ND	4.89	1.43	1.37
13	A	819	CLA	O2D-CGD	4.88	1.45	1.33
13	B	814	CLA	CHC-C1C	4.88	1.47	1.35
13	B	822	CLA	O2D-CGD	4.88	1.45	1.33
13	A	828	CLA	CHC-C1C	4.88	1.47	1.35
13	A	826	CLA	O2D-CGD	4.88	1.45	1.33
13	B	833	CLA	C3B-C2B	4.87	1.47	1.40
13	A	804	CLA	CHC-C1C	4.87	1.47	1.35
13	A	837	CLA	O2D-CGD	4.87	1.45	1.33
13	A	843	CLA	CHC-C1C	4.87	1.47	1.35
13	A	824	CLA	O2D-CGD	4.87	1.45	1.33
13	B	831	CLA	CHC-C1C	4.86	1.47	1.35
13	A	836	CLA	C3B-C2B	4.86	1.47	1.40
13	A	808	CLA	CHC-C1C	4.86	1.47	1.35
13	B	819	CLA	O2D-CGD	4.86	1.45	1.33
13	F	203	CLA	CHC-C1C	4.86	1.47	1.35
13	L	203	CLA	CHC-C1C	4.86	1.47	1.35
13	B	815	CLA	O2D-CGD	4.86	1.45	1.33
13	A	825	CLA	C3C-C2C	4.86	1.47	1.36
13	A	844	CLA	O2D-CGD	4.86	1.45	1.33
13	A	808	CLA	C3B-C2B	4.86	1.47	1.40
13	B	805	CLA	C1D-ND	4.85	1.43	1.37
13	B	806	CLA	C1D-ND	4.85	1.43	1.37
13	B	826	CLA	C1D-ND	4.85	1.43	1.37
13	B	803	CLA	CHC-C1C	4.85	1.47	1.35
13	A	813	CLA	O2D-CGD	4.85	1.45	1.33
13	B	818	CLA	C1D-ND	4.85	1.43	1.37
13	B	806	CLA	O2D-CGD	4.85	1.45	1.33
13	A	825	CLA	CHC-C1C	4.84	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	838	CLA	C1D-ND	4.84	1.43	1.37
13	A	812	CLA	CHC-C1C	4.84	1.47	1.35
13	A	834	CLA	CHC-C1C	4.84	1.47	1.35
13	B	816	CLA	CHC-C1C	4.84	1.47	1.35
13	A	843	CLA	C1D-ND	4.83	1.43	1.37
13	A	840	CLA	C1D-ND	4.83	1.43	1.37
13	J	101	CLA	CHC-C1C	4.83	1.47	1.35
13	B	831	CLA	C1D-ND	4.83	1.43	1.37
13	A	838	CLA	CHC-C1C	4.82	1.47	1.35
13	B	812	CLA	CHC-C1C	4.82	1.47	1.35
13	A	821	CLA	O2D-CGD	4.82	1.45	1.33
13	B	822	CLA	CHC-C1C	4.81	1.47	1.35
13	B	811	CLA	O2D-CGD	4.81	1.44	1.33
13	B	807	CLA	C1D-ND	4.81	1.43	1.37
13	B	831	CLA	O2D-CGD	4.81	1.44	1.33
13	B	829	CLA	C1D-ND	4.80	1.43	1.37
13	B	815	CLA	CHC-C1C	4.80	1.47	1.35
13	A	822	CLA	O2D-CGD	4.80	1.44	1.33
13	A	832	CLA	CHC-C1C	4.80	1.47	1.35
13	A	833	CLA	C1D-ND	4.80	1.43	1.37
13	A	836	CLA	CHC-C1C	4.80	1.47	1.35
13	A	833	CLA	CHC-C1C	4.79	1.47	1.35
13	B	826	CLA	O2D-CGD	4.79	1.44	1.33
13	B	821	CLA	C3C-C2C	4.78	1.46	1.36
13	A	840	CLA	CHC-C1C	4.78	1.47	1.35
13	B	818	CLA	C3B-C2B	4.78	1.47	1.40
13	K	203	CLA	O2D-CGD	4.78	1.44	1.33
13	A	813	CLA	CHC-C1C	4.77	1.47	1.35
13	B	809	CLA	O2D-CGD	4.76	1.44	1.33
13	B	814	CLA	C1D-ND	4.76	1.43	1.37
13	A	833	CLA	O2D-CGD	4.76	1.44	1.33
13	B	818	CLA	CHC-C1C	4.76	1.47	1.35
13	A	842	CLA	O2D-CGD	4.76	1.44	1.33
13	L	204	CLA	O2D-CGD	4.75	1.44	1.33
13	A	840	CLA	O2D-CGD	4.75	1.44	1.33
13	A	839	CLA	CHC-C1C	4.75	1.47	1.35
13	A	815	CLA	C3B-C2B	4.75	1.47	1.40
13	B	813	CLA	O2D-CGD	4.75	1.44	1.33
13	B	828	CLA	O2D-CGD	4.75	1.44	1.33
13	L	203	CLA	C3B-C2B	4.74	1.47	1.40
13	B	802	CLA	C3C-C2C	4.74	1.46	1.36
13	A	835	CLA	CHC-C1C	4.74	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	811	CLA	CHC-C1C	4.74	1.47	1.35
13	A	839	CLA	O2D-CGD	4.74	1.44	1.33
13	B	811	CLA	C1D-ND	4.74	1.43	1.37
13	B	824	CLA	C1D-ND	4.73	1.43	1.37
13	A	806	CLA	CHC-C1C	4.73	1.47	1.35
13	B	808	CLA	O2D-CGD	4.73	1.44	1.33
13	B	810	CLA	O2D-CGD	4.73	1.44	1.33
13	A	820	CLA	C1D-ND	4.73	1.43	1.37
13	B	801	CLA	C3C-C2C	4.72	1.46	1.36
13	B	807	CLA	CHC-C1C	4.72	1.47	1.35
13	A	806	CLA	O2D-CGD	4.72	1.44	1.33
13	K	203	CLA	C1D-ND	4.72	1.43	1.37
13	A	816	CLA	CHC-C1C	4.71	1.47	1.35
13	B	829	CLA	O2D-CGD	4.71	1.44	1.33
13	A	841	CLA	CHC-C1C	4.71	1.47	1.35
13	B	801	CLA	C1D-ND	4.71	1.43	1.37
13	A	834	CLA	C1D-ND	4.71	1.43	1.37
13	A	823	CLA	O2D-CGD	4.71	1.44	1.33
13	B	809	CLA	CHC-C1C	4.70	1.47	1.35
13	B	823	CLA	O2D-CGD	4.70	1.44	1.33
13	B	804	CLA	O2D-CGD	4.70	1.44	1.33
13	B	810	CLA	C3B-C2B	4.70	1.46	1.40
13	B	830	CLA	C1D-ND	4.70	1.43	1.37
13	A	814	CLA	C1D-ND	4.70	1.43	1.37
13	A	818	CLA	CHC-C1C	4.69	1.47	1.35
13	A	822	CLA	C1D-ND	4.68	1.43	1.37
13	K	203	CLA	CHC-C1C	4.68	1.47	1.35
13	B	827	CLA	O2D-CGD	4.68	1.44	1.33
13	B	801	CLA	CHC-C1C	4.68	1.47	1.35
13	A	807	CLA	O2D-CGD	4.68	1.44	1.33
13	A	831	CLA	CHC-C1C	4.68	1.47	1.35
13	A	830	CLA	C3B-C2B	4.67	1.46	1.40
13	L	203	CLA	O2D-CGD	4.67	1.44	1.33
13	A	827	CLA	O2D-CGD	4.66	1.44	1.33
13	A	806	CLA	C3C-C2C	4.66	1.46	1.36
13	A	811	CLA	CHC-C1C	4.66	1.46	1.35
13	A	805	CLA	C1D-ND	4.66	1.43	1.37
13	A	824	CLA	CHC-C1C	4.65	1.46	1.35
13	A	830	CLA	O2D-CGD	4.65	1.44	1.33
13	B	802	CLA	O2D-CGD	4.65	1.44	1.33
13	B	833	CLA	O2D-CGD	4.65	1.44	1.33
13	A	817	CLA	CHC-C1C	4.65	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	827	CLA	C1D-ND	4.65	1.43	1.37
13	B	808	CLA	C1D-ND	4.65	1.43	1.37
13	A	816	CLA	O2D-CGD	4.65	1.44	1.33
13	B	814	CLA	O2D-CGD	4.64	1.44	1.33
13	A	839	CLA	C1D-ND	4.63	1.43	1.37
13	A	802	CLA	CHC-C1C	4.62	1.46	1.35
13	A	826	CLA	C3C-C2C	4.62	1.46	1.36
13	A	820	CLA	CHC-C1C	4.62	1.46	1.35
13	A	808	CLA	CHD-C1D	4.61	1.47	1.38
13	A	815	CLA	O2D-CGD	4.61	1.44	1.33
13	A	832	CLA	C1D-ND	4.61	1.43	1.37
13	A	813	CLA	C1D-ND	4.60	1.43	1.37
13	L	203	CLA	C1D-ND	4.60	1.43	1.37
13	B	802	CLA	CHC-C1C	4.60	1.46	1.35
13	B	833	CLA	CHC-C1C	4.59	1.46	1.35
13	B	833	CLA	C1D-ND	4.59	1.43	1.37
13	B	823	CLA	CHC-C1C	4.59	1.46	1.35
13	B	810	CLA	C1D-ND	4.58	1.43	1.37
13	A	810	CLA	CHC-C1C	4.58	1.46	1.35
13	B	819	CLA	C1D-ND	4.58	1.43	1.37
13	A	829	CLA	C3C-C2C	4.58	1.46	1.36
13	B	823	CLA	C1D-ND	4.56	1.43	1.37
13	B	825	CLA	O2D-CGD	4.56	1.44	1.33
13	A	824	CLA	C1D-ND	4.56	1.43	1.37
13	B	806	CLA	CHC-C1C	4.56	1.46	1.35
13	A	821	CLA	CHC-C1C	4.56	1.46	1.35
13	A	835	CLA	C3B-C2B	4.55	1.46	1.40
13	A	810	CLA	C1D-ND	4.53	1.43	1.37
12	A	801	CL0	CHC-C1C	4.52	1.46	1.35
13	F	203	CLA	O2A-CGA	4.52	1.45	1.30
13	A	837	CLA	O2A-CGA	4.52	1.45	1.30
13	A	810	CLA	O2D-CGD	4.51	1.44	1.33
13	A	816	CLA	O2A-CGA	4.51	1.45	1.30
13	A	835	CLA	O2D-CGD	4.51	1.44	1.33
13	A	814	CLA	O2D-CGD	4.51	1.44	1.33
13	A	820	CLA	CHD-C1D	4.50	1.47	1.38
13	B	828	CLA	O2A-CGA	4.50	1.45	1.30
13	A	836	CLA	C1D-ND	4.50	1.43	1.37
13	B	809	CLA	C1D-ND	4.49	1.43	1.37
13	A	811	CLA	O2A-CGA	4.49	1.45	1.30
13	A	819	CLA	CHC-C1C	4.48	1.46	1.35
13	J	101	CLA	O2A-CGA	4.48	1.45	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	838	CLA	O2D-CGD	4.48	1.44	1.33
13	A	828	CLA	O2D-CGD	4.48	1.44	1.33
13	A	831	CLA	C1D-ND	4.48	1.43	1.37
13	B	812	CLA	O2A-CGA	4.48	1.45	1.30
13	A	829	CLA	C1D-ND	4.47	1.43	1.37
13	A	843	CLA	O2A-CGA	4.47	1.46	1.33
13	B	815	CLA	O2A-CGA	4.47	1.45	1.30
13	B	820	CLA	O2A-CGA	4.46	1.46	1.33
13	B	827	CLA	O2A-CGA	4.46	1.45	1.30
13	A	805	CLA	O2A-CGA	4.46	1.45	1.30
13	K	203	CLA	O2A-CGA	4.46	1.45	1.30
13	B	803	CLA	O2D-CGD	4.46	1.44	1.33
13	A	815	CLA	O2A-CGA	4.46	1.45	1.30
13	B	823	CLA	CHD-C1D	4.46	1.47	1.38
13	A	809	CLA	C1D-ND	4.44	1.43	1.37
13	K	201	CLA	CHD-C1D	4.44	1.47	1.38
13	A	802	CLA	O2D-CGD	4.43	1.44	1.33
13	A	836	CLA	O2A-CGA	4.43	1.46	1.33
14	A	845	PQN	C10-C5	4.42	1.48	1.40
13	A	803	CLA	O2A-CGA	4.42	1.45	1.30
13	A	804	CLA	O2A-CGA	4.42	1.45	1.30
13	K	201	CLA	O2A-CGA	4.42	1.45	1.30
13	A	818	CLA	O2A-CGA	4.41	1.46	1.33
13	A	825	CLA	CHD-C1D	4.41	1.47	1.38
13	B	825	CLA	C1D-ND	4.41	1.43	1.37
13	A	844	CLA	O2A-CGA	4.40	1.46	1.33
13	A	832	CLA	CHD-C1D	4.40	1.46	1.38
13	B	812	CLA	CHD-C1D	4.39	1.46	1.38
13	A	814	CLA	O2A-CGA	4.39	1.45	1.30
13	A	823	CLA	C1D-ND	4.38	1.43	1.37
13	B	824	CLA	O2A-CGA	4.38	1.46	1.33
13	A	838	CLA	O2A-CGA	4.37	1.46	1.33
13	A	806	CLA	C1D-ND	4.37	1.43	1.37
13	A	810	CLA	O2A-CGA	4.37	1.45	1.30
13	A	831	CLA	O2D-CGD	4.35	1.43	1.33
13	A	803	CLA	C1B-NB	-4.35	1.31	1.35
13	A	817	CLA	CHD-C1D	4.33	1.46	1.38
13	B	826	CLA	CHD-C1D	4.33	1.46	1.38
13	B	832	CLA	CHD-C1D	4.32	1.46	1.38
13	B	833	CLA	O2A-CGA	4.32	1.46	1.33
13	B	822	CLA	C1D-ND	4.31	1.43	1.37
13	A	823	CLA	O2A-CGA	4.31	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	819	CLA	O2A-CGA	4.31	1.45	1.33
13	A	811	CLA	CHD-C1D	4.30	1.46	1.38
13	A	802	CLA	C1D-ND	4.30	1.43	1.37
13	B	822	CLA	O2A-CGA	4.30	1.45	1.33
13	A	837	CLA	CHD-C1D	4.30	1.46	1.38
13	A	840	CLA	O2A-CGA	4.29	1.45	1.33
13	A	816	CLA	CHD-C1D	4.29	1.46	1.38
13	F	203	CLA	CHD-C1D	4.29	1.46	1.38
13	A	833	CLA	O2A-CGA	4.29	1.45	1.33
13	A	826	CLA	C1D-ND	4.29	1.43	1.37
13	B	831	CLA	O2A-CGA	4.29	1.45	1.33
13	A	839	CLA	O2A-CGA	4.28	1.45	1.33
13	L	204	CLA	O2A-CGA	4.28	1.45	1.33
13	B	819	CLA	CHD-C1D	4.27	1.46	1.38
13	B	806	CLA	O2A-CGA	4.27	1.45	1.33
13	J	101	CLA	CHD-C1D	4.27	1.46	1.38
13	B	827	CLA	CHD-C1D	4.27	1.46	1.38
13	A	813	CLA	O2A-CGA	4.27	1.45	1.33
13	L	204	CLA	CHD-C1D	4.26	1.46	1.38
13	A	819	CLA	CHD-C1D	4.26	1.46	1.38
13	L	203	CLA	O2A-CGA	4.26	1.45	1.33
13	A	841	CLA	CHD-C1D	4.25	1.46	1.38
13	A	824	CLA	CHD-C1D	4.25	1.46	1.38
13	B	816	CLA	O2A-CGA	4.24	1.45	1.33
13	A	824	CLA	O2A-CGA	4.24	1.45	1.33
13	A	814	CLA	CHD-C1D	4.24	1.46	1.38
13	B	802	CLA	C1D-ND	4.24	1.43	1.37
13	B	816	CLA	CHD-C1D	4.24	1.46	1.38
13	B	823	CLA	O2A-CGA	4.24	1.45	1.33
13	B	809	CLA	O2A-CGA	4.24	1.45	1.33
13	B	811	CLA	O2A-CGA	4.23	1.45	1.33
13	A	825	CLA	O2A-CGA	4.23	1.45	1.33
13	B	805	CLA	O2A-CGA	4.23	1.45	1.33
13	A	830	CLA	O2A-CGA	4.22	1.45	1.33
13	A	822	CLA	O2A-CGA	4.22	1.45	1.33
13	B	826	CLA	O2A-CGA	4.22	1.45	1.33
13	A	830	CLA	C1D-ND	4.22	1.43	1.37
13	B	804	CLA	C1D-ND	4.21	1.43	1.37
13	B	806	CLA	CHD-C1D	4.20	1.46	1.38
13	B	833	CLA	CHD-C1D	4.20	1.46	1.38
13	B	818	CLA	O2A-CGA	4.20	1.45	1.33
13	A	841	CLA	O2A-CGA	4.20	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	814	CLA	O2A-CGA	4.20	1.45	1.33
13	B	818	CLA	CHD-C1D	4.20	1.46	1.38
13	B	813	CLA	CHD-C1D	4.20	1.46	1.38
13	B	821	CLA	O2A-CGA	4.20	1.45	1.33
13	B	815	CLA	CHD-C1D	4.19	1.46	1.38
13	A	832	CLA	O2A-CGA	4.19	1.45	1.33
13	B	801	CLA	O2A-CGA	4.19	1.45	1.33
13	A	821	CLA	O2A-CGA	4.18	1.45	1.33
13	A	815	CLA	CHD-C1D	4.18	1.46	1.38
13	A	834	CLA	CHD-C1D	4.18	1.46	1.38
13	B	811	CLA	CHD-C1D	4.17	1.46	1.38
13	L	202	CLA	CHD-C1D	4.17	1.46	1.38
13	A	842	CLA	O2A-CGA	4.17	1.45	1.33
13	B	817	CLA	CHD-C1D	4.17	1.46	1.38
13	B	805	CLA	CHD-C1D	4.16	1.46	1.38
13	B	828	CLA	CHD-C1D	4.16	1.46	1.38
13	A	817	CLA	O2A-CGA	4.16	1.45	1.33
13	B	830	CLA	O2A-CGA	4.16	1.45	1.33
13	A	842	CLA	CHD-C1D	4.15	1.46	1.38
13	B	832	CLA	O2A-CGA	4.15	1.45	1.33
13	A	812	CLA	O2A-CGA	4.15	1.45	1.33
13	A	806	CLA	O2A-CGA	4.15	1.45	1.33
13	A	826	CLA	O2A-CGA	4.14	1.45	1.33
13	A	825	CLA	CHD-C4C	4.14	1.48	1.39
13	B	821	CLA	C1D-ND	4.14	1.42	1.37
13	A	820	CLA	O2A-CGA	4.13	1.45	1.33
13	B	801	CLA	CHD-C1D	4.13	1.46	1.38
13	A	808	CLA	CHD-C4C	4.13	1.48	1.39
13	A	810	CLA	CHD-C1D	4.11	1.46	1.38
13	B	822	CLA	CHD-C1D	4.11	1.46	1.38
13	A	812	CLA	CHD-C1D	4.11	1.46	1.38
13	A	802	CLA	CHD-C1D	4.09	1.46	1.38
13	B	808	CLA	O2A-CGA	4.09	1.45	1.33
13	A	816	CLA	CHD-C4C	4.09	1.48	1.39
13	B	827	CLA	CHD-C4C	4.07	1.48	1.39
13	A	821	CLA	CHD-C1D	4.07	1.46	1.38
13	A	813	CLA	CHD-C1D	4.07	1.46	1.38
13	L	202	CLA	O2A-CGA	4.07	1.46	1.33
13	A	827	CLA	O2A-CGA	4.07	1.45	1.33
13	A	831	CLA	O2A-CGA	4.07	1.45	1.33
13	B	824	CLA	CHD-C1D	4.07	1.46	1.38
13	B	829	CLA	O2A-CGA	4.07	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	819	CLA	O2A-CGA	4.07	1.46	1.33
13	A	833	CLA	CHD-C1D	4.07	1.46	1.38
13	B	817	CLA	O2A-CGA	4.07	1.45	1.33
13	A	809	CLA	O2A-CGA	4.07	1.45	1.33
13	A	808	CLA	O2A-CGA	4.07	1.45	1.33
13	K	201	CLA	CHD-C4C	4.07	1.48	1.39
13	A	828	CLA	O2A-CGA	4.06	1.45	1.33
13	A	835	CLA	CHD-C1D	4.06	1.46	1.38
13	A	836	CLA	CHD-C1D	4.06	1.46	1.38
13	B	832	CLA	CHD-C4C	4.05	1.48	1.39
13	B	814	CLA	CHD-C1D	4.05	1.46	1.38
13	F	203	CLA	CHD-C4C	4.05	1.48	1.39
12	A	801	CL0	O2A-CGA	4.05	1.45	1.33
13	B	807	CLA	O2A-CGA	4.04	1.45	1.33
13	B	808	CLA	CHD-C1D	4.04	1.46	1.38
13	K	203	CLA	CHD-C1D	4.04	1.46	1.38
13	A	829	CLA	O2A-CGA	4.04	1.45	1.33
13	A	844	CLA	CHD-C1D	4.04	1.46	1.38
13	A	804	CLA	CHD-C1D	4.03	1.46	1.38
13	B	803	CLA	O2A-CGA	4.03	1.45	1.33
14	B	834	PQN	C10-C5	4.03	1.47	1.40
13	B	828	CLA	CHD-C4C	4.03	1.48	1.39
13	B	802	CLA	O2A-CGA	4.02	1.45	1.33
13	A	843	CLA	CHD-C1D	4.02	1.46	1.38
13	A	835	CLA	O2A-CGA	4.02	1.45	1.33
13	B	819	CLA	CHD-C4C	4.01	1.48	1.39
13	B	810	CLA	CHD-C1D	4.01	1.46	1.38
13	B	830	CLA	CHD-C4C	4.00	1.48	1.39
13	A	842	CLA	CHD-C4C	3.98	1.48	1.39
13	A	822	CLA	CHD-C1D	3.98	1.46	1.38
13	B	804	CLA	O2A-CGA	3.98	1.45	1.33
13	B	826	CLA	CHD-C4C	3.97	1.48	1.39
13	B	823	CLA	CHD-C4C	3.97	1.48	1.39
13	A	839	CLA	CHD-C1D	3.96	1.46	1.38
13	B	820	CLA	CHD-C1D	3.96	1.46	1.38
13	A	832	CLA	CHD-C4C	3.95	1.48	1.39
13	B	811	CLA	CHD-C4C	3.95	1.48	1.39
13	B	813	CLA	O2A-CGA	3.95	1.44	1.33
13	B	825	CLA	O2A-CGA	3.95	1.44	1.33
13	A	807	CLA	O2A-CGA	3.95	1.44	1.33
13	A	827	CLA	CHD-C1D	3.94	1.46	1.38
13	A	840	CLA	CHD-C1D	3.94	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	817	CLA	CHD-C4C	3.94	1.48	1.39
13	B	809	CLA	CHD-C1D	3.94	1.46	1.38
13	L	204	CLA	CHD-C4C	3.93	1.48	1.39
13	A	837	CLA	CHD-C4C	3.93	1.48	1.39
13	L	202	CLA	CHD-C4C	3.93	1.48	1.39
13	A	805	CLA	CHD-C1D	3.92	1.46	1.38
13	A	802	CLA	O2A-CGA	3.92	1.44	1.33
13	A	807	CLA	CHD-C1D	3.92	1.46	1.38
13	A	820	CLA	CHD-C4C	3.92	1.48	1.39
13	A	828	CLA	CHD-C1D	3.92	1.46	1.38
13	B	817	CLA	CHD-C4C	3.92	1.48	1.39
13	B	803	CLA	C1D-ND	3.92	1.42	1.37
13	B	813	CLA	CHD-C4C	3.92	1.48	1.39
13	A	814	CLA	CHD-C4C	3.91	1.48	1.39
13	B	810	CLA	O2A-CGA	3.91	1.44	1.33
13	A	818	CLA	CHD-C1D	3.91	1.46	1.38
13	A	820	CLA	C3D-C2D	3.90	1.49	1.39
13	J	101	CLA	CHD-C4C	3.90	1.48	1.39
13	A	834	CLA	O2A-CGA	3.90	1.44	1.33
13	A	815	CLA	CHD-C4C	3.89	1.48	1.39
13	B	815	CLA	CHD-C4C	3.89	1.48	1.39
13	L	203	CLA	CHD-C4C	3.89	1.48	1.39
13	A	838	CLA	CHD-C1D	3.88	1.45	1.38
13	B	816	CLA	CHD-C4C	3.88	1.48	1.39
13	B	824	CLA	CHD-C4C	3.88	1.48	1.39
13	A	805	CLA	CHD-C4C	3.87	1.48	1.39
13	A	843	CLA	CHD-C4C	3.87	1.48	1.39
13	A	809	CLA	CHD-C1D	3.87	1.45	1.38
13	B	812	CLA	CHD-C4C	3.86	1.48	1.39
13	A	827	CLA	CHD-C4C	3.86	1.48	1.39
13	A	812	CLA	CHD-C4C	3.86	1.48	1.39
13	A	831	CLA	CHD-C1D	3.86	1.45	1.38
13	A	830	CLA	CHD-C1D	3.85	1.45	1.38
13	A	841	CLA	CHD-C4C	3.85	1.48	1.39
13	B	825	CLA	CHD-C4C	3.85	1.48	1.39
13	A	809	CLA	CHD-C4C	3.84	1.48	1.39
13	B	831	CLA	CHD-C4C	3.84	1.48	1.39
13	A	806	CLA	CHD-C1D	3.84	1.45	1.38
13	B	803	CLA	C3D-C2D	3.83	1.49	1.39
13	A	811	CLA	CHD-C4C	3.83	1.48	1.39
13	A	825	CLA	C3D-C2D	3.83	1.49	1.39
13	B	830	CLA	CHD-C1D	3.82	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	804	CLA	C3D-C2D	3.82	1.49	1.39
13	A	813	CLA	CHD-C4C	3.82	1.47	1.39
13	B	814	CLA	CHD-C4C	3.81	1.47	1.39
13	B	805	CLA	CHD-C4C	3.81	1.47	1.39
13	A	803	CLA	CHD-C4C	3.81	1.47	1.39
13	A	836	CLA	C3D-C2D	3.79	1.49	1.39
13	B	806	CLA	CHD-C4C	3.79	1.47	1.39
13	A	844	CLA	CHD-C4C	3.79	1.47	1.39
13	B	829	CLA	CHD-C1D	3.78	1.45	1.38
13	A	836	CLA	CHD-C4C	3.78	1.47	1.39
13	B	820	CLA	CHD-C4C	3.77	1.47	1.39
13	A	824	CLA	CHD-C4C	3.77	1.47	1.39
13	A	809	CLA	C3D-C2D	3.77	1.49	1.39
13	A	839	CLA	CHD-C4C	3.76	1.47	1.39
13	B	818	CLA	CHD-C4C	3.76	1.47	1.39
13	B	817	CLA	C3D-C2D	3.75	1.49	1.39
13	A	823	CLA	CHD-C1D	3.75	1.45	1.38
13	B	833	CLA	CHD-C4C	3.75	1.47	1.39
13	J	101	CLA	OBD-CAD	3.75	1.28	1.22
13	B	829	CLA	CHD-C4C	3.75	1.47	1.39
13	B	810	CLA	CHD-C4C	3.74	1.47	1.39
13	A	808	CLA	C3D-C2D	3.74	1.49	1.39
13	B	827	CLA	OBD-CAD	3.74	1.28	1.22
13	B	808	CLA	CHD-C4C	3.74	1.47	1.39
13	F	203	CLA	C3D-C2D	3.74	1.49	1.39
13	A	807	CLA	CHD-C4C	3.74	1.47	1.39
13	L	203	CLA	CHD-C1D	3.74	1.45	1.38
13	B	831	CLA	CHD-C1D	3.74	1.45	1.38
13	A	821	CLA	CHD-C4C	3.74	1.47	1.39
13	A	802	CLA	CHD-C4C	3.73	1.47	1.39
13	A	806	CLA	CHD-C4C	3.73	1.47	1.39
13	B	808	CLA	C3D-C2D	3.73	1.49	1.39
13	A	829	CLA	CHD-C1D	3.73	1.45	1.38
13	A	835	CLA	CHD-C4C	3.72	1.47	1.39
13	A	834	CLA	CHD-C4C	3.72	1.47	1.39
13	B	828	CLA	OBD-CAD	3.72	1.28	1.22
13	K	201	CLA	C3D-C2D	3.72	1.49	1.39
13	B	801	CLA	C3D-C2D	3.72	1.49	1.39
13	A	823	CLA	C3D-C2D	3.71	1.49	1.39
13	K	203	CLA	CHD-C4C	3.71	1.47	1.39
13	B	807	CLA	CHD-C1D	3.71	1.45	1.38
13	A	819	CLA	CHD-C4C	3.70	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	L	202	CLA	OBD-CAD	3.69	1.28	1.22
13	B	815	CLA	C3D-C2D	3.69	1.49	1.39
13	A	804	CLA	CHD-C4C	3.69	1.47	1.39
13	A	805	CLA	C3D-C2D	3.68	1.49	1.39
13	B	804	CLA	OBD-CAD	3.68	1.28	1.22
13	A	837	CLA	C3D-C2D	3.68	1.49	1.39
13	A	833	CLA	CHD-C4C	3.68	1.47	1.39
13	J	101	CLA	C3D-C2D	3.68	1.49	1.39
13	A	810	CLA	OBD-CAD	3.68	1.28	1.22
13	B	801	CLA	CHD-C4C	3.67	1.47	1.39
13	B	813	CLA	C3D-C2D	3.67	1.49	1.39
13	A	823	CLA	CHD-C4C	3.67	1.47	1.39
13	A	838	CLA	CHD-C4C	3.67	1.47	1.39
13	A	810	CLA	CHD-C4C	3.67	1.47	1.39
13	A	803	CLA	C3D-C2D	3.66	1.49	1.39
12	A	801	CL0	C1D-ND	3.66	1.42	1.37
13	A	841	CLA	C3D-C2D	3.66	1.49	1.39
13	L	204	CLA	C3D-C2D	3.66	1.49	1.39
13	A	842	CLA	C3D-C2D	3.66	1.49	1.39
13	A	831	CLA	CHD-C4C	3.66	1.47	1.39
13	B	807	CLA	CHD-C4C	3.65	1.47	1.39
13	B	809	CLA	CHD-C4C	3.65	1.47	1.39
13	A	844	CLA	OBD-CAD	3.65	1.28	1.22
13	B	815	CLA	OBD-CAD	3.65	1.28	1.22
13	A	844	CLA	C3D-C2D	3.63	1.49	1.39
13	L	203	CLA	C3D-C2D	3.63	1.49	1.39
13	A	817	CLA	C3D-C2D	3.62	1.49	1.39
13	A	815	CLA	OBD-CAD	3.62	1.28	1.22
13	A	816	CLA	C3D-C2D	3.62	1.49	1.39
13	B	805	CLA	OBD-CAD	3.61	1.28	1.22
13	A	813	CLA	C3D-C2D	3.61	1.49	1.39
13	B	828	CLA	C3D-C2D	3.61	1.49	1.39
13	B	812	CLA	OBD-CAD	3.61	1.28	1.22
13	B	822	CLA	CHD-C4C	3.61	1.47	1.39
13	F	203	CLA	OBD-CAD	3.61	1.28	1.22
13	A	829	CLA	CHD-C4C	3.60	1.47	1.39
13	A	817	CLA	OBD-CAD	3.60	1.28	1.22
13	B	821	CLA	CHD-C1D	3.59	1.45	1.38
13	B	812	CLA	C3D-C2D	3.59	1.48	1.39
13	A	830	CLA	CHD-C4C	3.59	1.47	1.39
13	K	203	CLA	C3D-C2D	3.59	1.48	1.39
13	A	824	CLA	C3D-C2D	3.59	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	805	CLA	C3D-C2D	3.58	1.48	1.39
13	A	814	CLA	C3D-C2D	3.58	1.48	1.39
13	B	821	CLA	CHD-C4C	3.58	1.47	1.39
13	A	835	CLA	OBD-CAD	3.58	1.28	1.22
13	B	813	CLA	OBD-CAD	3.58	1.28	1.22
13	B	823	CLA	OBD-CAD	3.58	1.28	1.22
13	A	835	CLA	C3D-C2D	3.58	1.48	1.39
13	A	815	CLA	C3D-C2D	3.58	1.48	1.39
13	B	810	CLA	C3D-C2D	3.57	1.48	1.39
13	B	816	CLA	C3D-C2D	3.57	1.48	1.39
13	B	826	CLA	C3D-C2D	3.57	1.48	1.39
13	A	816	CLA	OBD-CAD	3.57	1.28	1.22
13	A	840	CLA	CHD-C4C	3.57	1.47	1.39
13	A	826	CLA	CHD-C1D	3.57	1.45	1.38
13	B	806	CLA	C3D-C2D	3.57	1.48	1.39
13	A	818	CLA	CHD-C4C	3.56	1.47	1.39
13	A	808	CLA	OBD-CAD	3.56	1.28	1.22
13	A	804	CLA	C3D-C2D	3.56	1.48	1.39
13	B	826	CLA	OBD-CAD	3.56	1.28	1.22
13	B	827	CLA	C3D-C2D	3.56	1.48	1.39
13	B	832	CLA	C3D-C2D	3.56	1.48	1.39
13	A	837	CLA	OBD-CAD	3.56	1.28	1.22
13	B	818	CLA	C3D-C2D	3.56	1.48	1.39
13	A	822	CLA	C3D-C2D	3.56	1.48	1.39
13	A	833	CLA	C3D-C2D	3.55	1.48	1.39
12	A	801	CL0	CHD-C1D	3.55	1.45	1.38
13	L	202	CLA	C3D-C2D	3.55	1.48	1.39
13	A	811	CLA	C3D-C2D	3.55	1.48	1.39
13	A	842	CLA	OBD-CAD	3.54	1.28	1.22
13	B	802	CLA	CHD-C1D	3.54	1.45	1.38
13	L	204	CLA	OBD-CAD	3.54	1.28	1.22
13	B	822	CLA	OBD-CAD	3.53	1.28	1.22
13	B	803	CLA	CHD-C1D	3.53	1.45	1.38
13	A	822	CLA	CHD-C4C	3.53	1.47	1.39
13	A	803	CLA	OBD-CAD	3.53	1.28	1.22
13	B	833	CLA	C3D-C2D	3.53	1.48	1.39
13	B	804	CLA	CHD-C4C	3.52	1.47	1.39
13	A	834	CLA	OBD-CAD	3.51	1.28	1.22
13	B	829	CLA	C3D-C2D	3.51	1.48	1.39
13	A	831	CLA	C1B-NB	-3.51	1.32	1.35
13	B	824	CLA	C3D-C2D	3.50	1.48	1.39
13	A	813	CLA	OBD-CAD	3.50	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	809	CLA	C3D-C2D	3.49	1.48	1.39
13	A	812	CLA	C3D-C2D	3.49	1.48	1.39
12	A	801	CL0	C3D-C2D	3.49	1.48	1.39
13	A	832	CLA	C3D-C2D	3.49	1.48	1.39
13	B	809	CLA	OBD-CAD	3.49	1.28	1.22
13	B	814	CLA	OBD-CAD	3.48	1.28	1.22
13	B	821	CLA	OBD-CAD	3.48	1.28	1.22
13	A	843	CLA	C3D-C2D	3.48	1.48	1.39
13	A	821	CLA	C3D-C2D	3.48	1.48	1.39
13	A	828	CLA	CHD-C4C	3.48	1.47	1.39
13	B	806	CLA	OBD-CAD	3.47	1.28	1.22
13	B	814	CLA	C3D-C2D	3.47	1.48	1.39
13	B	824	CLA	OBD-CAD	3.47	1.28	1.22
13	B	822	CLA	C3D-C2D	3.47	1.48	1.39
13	B	818	CLA	OBD-CAD	3.47	1.28	1.22
13	B	819	CLA	C3D-C2D	3.46	1.48	1.39
13	K	203	CLA	OBD-CAD	3.46	1.28	1.22
13	B	830	CLA	C3D-C2D	3.45	1.48	1.39
13	A	834	CLA	C3D-C2D	3.45	1.48	1.39
13	B	804	CLA	CHD-C1D	3.45	1.45	1.38
13	A	803	CLA	C1D-ND	3.45	1.42	1.37
13	B	831	CLA	C3D-C2D	3.45	1.48	1.39
13	A	839	CLA	C3D-C2D	3.45	1.48	1.39
13	B	825	CLA	CHD-C1D	3.44	1.45	1.38
13	B	817	CLA	OBD-CAD	3.43	1.28	1.22
13	B	832	CLA	OBD-CAD	3.43	1.28	1.22
13	B	811	CLA	OBD-CAD	3.43	1.28	1.22
13	B	816	CLA	OBD-CAD	3.43	1.28	1.22
13	A	818	CLA	C3D-C2D	3.43	1.48	1.39
13	A	831	CLA	C3D-C2D	3.43	1.48	1.39
13	A	820	CLA	C1B-NB	-3.42	1.32	1.35
13	B	825	CLA	OBD-CAD	3.42	1.28	1.22
13	B	803	CLA	CHD-C4C	3.42	1.47	1.39
13	A	812	CLA	OBD-CAD	3.41	1.28	1.22
13	A	820	CLA	OBD-CAD	3.41	1.28	1.22
13	A	805	CLA	OBD-CAD	3.41	1.28	1.22
13	B	801	CLA	OBD-CAD	3.40	1.28	1.22
13	A	830	CLA	C3D-C2D	3.40	1.48	1.39
13	B	821	CLA	C3D-C2D	3.40	1.48	1.39
13	B	810	CLA	OBD-CAD	3.40	1.28	1.22
13	B	808	CLA	OBD-CAD	3.40	1.28	1.22
12	A	801	CL0	OBD-CAD	3.40	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	821	CLA	OBD-CAD	3.40	1.28	1.22
13	A	814	CLA	OBD-CAD	3.40	1.28	1.22
13	A	829	CLA	C3D-C2D	3.40	1.48	1.39
13	B	820	CLA	C3D-C2D	3.40	1.48	1.39
13	A	826	CLA	CHD-C4C	3.39	1.47	1.39
13	A	807	CLA	C3D-C2D	3.39	1.48	1.39
13	A	804	CLA	OBD-CAD	3.38	1.28	1.22
13	A	824	CLA	OBD-CAD	3.38	1.28	1.22
13	A	803	CLA	CHD-C1D	3.37	1.44	1.38
13	A	843	CLA	OBD-CAD	3.37	1.28	1.22
16	K	202	BCR	C1-C6	-3.37	1.49	1.53
13	A	810	CLA	C3D-C2D	3.37	1.48	1.39
13	A	802	CLA	C3D-C2D	3.37	1.48	1.39
13	A	811	CLA	OBD-CAD	3.37	1.28	1.22
13	A	819	CLA	C3D-C2D	3.37	1.48	1.39
13	A	841	CLA	OBD-CAD	3.37	1.28	1.22
13	A	806	CLA	OBD-CAD	3.36	1.28	1.22
13	A	831	CLA	OBD-CAD	3.36	1.28	1.22
13	B	811	CLA	C3D-C2D	3.36	1.48	1.39
13	A	830	CLA	OBD-CAD	3.35	1.28	1.22
13	B	802	CLA	OBD-CAD	3.35	1.28	1.22
13	L	203	CLA	OBD-CAD	3.35	1.28	1.22
13	A	823	CLA	OBD-CAD	3.35	1.28	1.22
13	B	823	CLA	C1B-NB	-3.34	1.32	1.35
13	B	819	CLA	OBD-CAD	3.34	1.28	1.22
13	A	825	CLA	OBD-CAD	3.33	1.28	1.22
13	A	826	CLA	C3D-C2D	3.33	1.48	1.39
13	B	833	CLA	OBD-CAD	3.32	1.28	1.22
13	A	836	CLA	OBD-CAD	3.31	1.28	1.22
16	J	103	BCR	C30-C25	-3.30	1.49	1.53
13	A	819	CLA	OBD-CAD	3.29	1.28	1.22
13	A	806	CLA	C3D-C2D	3.28	1.48	1.39
13	B	802	CLA	C3D-C2D	3.28	1.48	1.39
16	B	837	BCR	C30-C25	-3.28	1.49	1.53
13	A	833	CLA	OBD-CAD	3.28	1.28	1.22
13	B	802	CLA	CHD-C4C	3.28	1.46	1.39
13	B	825	CLA	C3D-C2D	3.27	1.48	1.39
13	A	822	CLA	OBD-CAD	3.27	1.28	1.22
13	A	826	CLA	OBD-CAD	3.27	1.28	1.22
13	B	807	CLA	C3D-C2D	3.25	1.48	1.39
13	A	818	CLA	OBD-CAD	3.25	1.28	1.22
13	A	840	CLA	C3D-C2D	3.25	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	809	CLA	OBD-CAD	3.23	1.28	1.22
13	A	802	CLA	C1B-NB	-3.22	1.32	1.35
13	A	832	CLA	OBD-CAD	3.21	1.28	1.22
13	B	807	CLA	C1B-NB	-3.20	1.32	1.35
13	A	828	CLA	C3D-C2D	3.20	1.47	1.39
16	M	101	BCR	C30-C25	-3.19	1.49	1.53
12	A	801	CL0	CHD-C4C	3.19	1.46	1.39
13	A	838	CLA	C3D-C2D	3.18	1.47	1.39
13	A	807	CLA	OBD-CAD	3.17	1.27	1.22
13	A	805	CLA	C1B-NB	-3.17	1.32	1.35
13	B	810	CLA	C1B-NB	-3.16	1.32	1.35
13	A	829	CLA	OBD-CAD	3.15	1.27	1.22
16	F	201	BCR	C1-C6	-3.15	1.49	1.53
13	A	827	CLA	C3D-C2D	3.14	1.47	1.39
16	F	202	BCR	C1-C6	-3.13	1.49	1.53
16	A	850	BCR	C1-C6	-3.13	1.49	1.53
13	B	820	CLA	OBD-CAD	3.10	1.27	1.22
13	B	818	CLA	C1B-NB	-3.10	1.32	1.35
13	B	830	CLA	OBD-CAD	3.08	1.27	1.22
13	A	838	CLA	OBD-CAD	3.08	1.27	1.22
16	B	835	BCR	C30-C25	-3.07	1.49	1.53
13	B	833	CLA	C1B-NB	-3.07	1.32	1.35
16	L	201	BCR	C1-C6	-3.07	1.49	1.53
13	B	823	CLA	C3D-C2D	3.06	1.47	1.39
16	A	847	BCR	C1-C6	-3.05	1.49	1.53
13	A	839	CLA	OBD-CAD	3.04	1.27	1.22
13	A	827	CLA	OBD-CAD	3.03	1.27	1.22
16	A	849	BCR	C1-C6	-3.02	1.49	1.53
16	L	205	BCR	C30-C25	-3.01	1.49	1.53
16	B	835	BCR	C1-C6	-3.00	1.49	1.53
13	B	829	CLA	OBD-CAD	3.00	1.27	1.22
16	L	205	BCR	C1-C6	-3.00	1.49	1.53
13	A	828	CLA	OBD-CAD	2.98	1.27	1.22
13	B	831	CLA	OBD-CAD	2.98	1.27	1.22
16	B	837	BCR	C1-C6	-2.96	1.49	1.53
13	B	823	CLA	C3D-C4D	-2.95	1.37	1.44
16	J	102	BCR	C1-C6	-2.94	1.49	1.53
16	A	850	BCR	C30-C25	-2.94	1.49	1.53
13	A	841	CLA	C1B-NB	-2.93	1.32	1.35
13	B	819	CLA	C1B-NB	-2.92	1.32	1.35
13	B	807	CLA	OBD-CAD	2.92	1.27	1.22
13	B	803	CLA	C1B-NB	-2.91	1.32	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	I	101	BCR	C1-C6	-2.91	1.49	1.53
13	A	839	CLA	C1B-NB	-2.89	1.32	1.35
17	A	852	LHG	O7-C5	-2.89	1.39	1.46
13	B	809	CLA	C1B-NB	-2.89	1.32	1.35
16	L	201	BCR	C30-C25	-2.86	1.49	1.53
13	A	813	CLA	C1B-NB	-2.86	1.32	1.35
16	F	201	BCR	C30-C25	-2.85	1.49	1.53
16	M	101	BCR	C1-C6	-2.82	1.49	1.53
13	A	840	CLA	C1B-NB	-2.82	1.32	1.35
13	A	823	CLA	C1B-NB	-2.79	1.32	1.35
13	B	804	CLA	C1B-NB	-2.78	1.32	1.35
13	A	802	CLA	OBD-CAD	2.77	1.27	1.22
12	A	801	CL0	C1B-NB	-2.77	1.32	1.35
13	A	827	CLA	C3D-C4D	-2.77	1.37	1.44
13	K	201	CLA	OBD-CAD	2.76	1.28	1.23
13	A	828	CLA	C1B-NB	-2.74	1.32	1.35
13	A	827	CLA	C1B-NB	-2.74	1.32	1.35
13	A	838	CLA	C4B-NB	-2.73	1.32	1.35
13	B	803	CLA	OBD-CAD	2.73	1.27	1.22
13	A	807	CLA	C1B-NB	-2.72	1.32	1.35
13	A	833	CLA	C1B-NB	-2.72	1.32	1.35
13	A	819	CLA	C1C-NC	-2.71	1.33	1.37
13	J	101	CLA	C1B-NB	-2.71	1.32	1.35
13	B	811	CLA	C4C-C3C	2.71	1.49	1.45
13	A	838	CLA	C3D-C4D	-2.71	1.38	1.44
13	A	817	CLA	C4D-CHA	2.70	1.48	1.38
13	B	822	CLA	C1B-NB	-2.70	1.32	1.35
16	J	104	BCR	C1-C6	-2.70	1.50	1.53
16	B	836	BCR	C30-C25	-2.69	1.50	1.53
13	A	840	CLA	OBD-CAD	2.68	1.27	1.22
13	A	832	CLA	C3D-C4D	-2.68	1.38	1.44
12	A	801	CL0	C3D-C4D	-2.68	1.38	1.44
13	A	840	CLA	C3D-C4D	-2.68	1.38	1.44
13	B	820	CLA	C4D-CHA	2.68	1.47	1.38
13	A	835	CLA	C4D-CHA	2.67	1.47	1.38
13	A	837	CLA	C4D-CHA	2.67	1.47	1.38
13	J	101	CLA	C4D-CHA	2.67	1.47	1.38
13	A	826	CLA	C1B-NB	-2.67	1.32	1.35
13	A	808	CLA	C4D-CHA	2.67	1.47	1.38
13	A	802	CLA	C4B-NB	-2.67	1.32	1.35
13	B	815	CLA	C4D-CHA	2.67	1.47	1.38
16	J	104	BCR	C30-C25	-2.67	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	821	CLA	C1B-NB	-2.67	1.32	1.35
13	B	823	CLA	C4C-C3C	2.67	1.49	1.45
16	B	836	BCR	C1-C6	-2.66	1.50	1.53
16	A	851	BCR	C1-C6	-2.66	1.50	1.53
13	A	841	CLA	C4D-CHA	2.66	1.47	1.38
13	A	814	CLA	C1B-NB	-2.65	1.32	1.35
16	L	206	BCR	C1-C6	-2.65	1.50	1.53
13	A	802	CLA	C3D-C4D	-2.65	1.38	1.44
13	B	811	CLA	C3D-C4D	-2.65	1.38	1.44
13	B	810	CLA	C4D-CHA	2.65	1.47	1.38
13	A	825	CLA	C4D-CHA	2.64	1.47	1.38
13	B	818	CLA	C4D-CHA	2.64	1.47	1.38
13	B	833	CLA	C3D-C4D	-2.64	1.38	1.44
13	B	821	CLA	C1B-NB	-2.64	1.32	1.35
13	A	844	CLA	C4D-CHA	2.64	1.47	1.38
13	A	806	CLA	C1B-NB	-2.63	1.32	1.35
13	A	829	CLA	C1B-NB	-2.63	1.32	1.35
12	A	801	CL0	C1C-NC	-2.63	1.33	1.37
13	A	819	CLA	C1B-NB	-2.63	1.32	1.35
13	A	812	CLA	C3D-C4D	-2.63	1.38	1.44
13	A	815	CLA	C4D-CHA	2.63	1.47	1.38
13	B	812	CLA	C4D-CHA	2.63	1.47	1.38
13	A	806	CLA	C3D-C4D	-2.63	1.38	1.44
13	A	829	CLA	C1C-C2C	2.63	1.49	1.44
13	L	202	CLA	C4D-CHA	2.62	1.47	1.38
13	A	816	CLA	C4D-CHA	2.62	1.47	1.38
13	A	820	CLA	C4D-CHA	2.62	1.47	1.38
13	A	808	CLA	C1B-NB	-2.62	1.32	1.35
13	A	842	CLA	C4D-CHA	2.61	1.47	1.38
13	K	203	CLA	C4D-CHA	2.61	1.47	1.38
13	A	805	CLA	C4D-CHA	2.61	1.47	1.38
16	J	102	BCR	C30-C25	-2.61	1.50	1.53
13	A	821	CLA	C4D-CHA	2.61	1.47	1.38
13	A	824	CLA	C1B-NB	-2.61	1.32	1.35
13	B	816	CLA	C4D-CHA	2.60	1.47	1.38
13	B	807	CLA	C3D-C4D	-2.60	1.38	1.44
13	A	814	CLA	C4D-CHA	2.60	1.47	1.38
13	A	832	CLA	C1B-NB	-2.60	1.32	1.35
13	B	827	CLA	C4D-CHA	2.60	1.47	1.38
13	A	819	CLA	C4D-CHA	2.60	1.47	1.38
13	A	829	CLA	C4D-CHA	2.59	1.47	1.38
13	A	809	CLA	C4D-CHA	2.59	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	809	CLA	C1B-NB	-2.59	1.32	1.35
13	A	811	CLA	C4D-CHA	2.59	1.47	1.38
13	A	819	CLA	C3D-C4D	-2.59	1.38	1.44
13	A	810	CLA	C4D-CHA	2.58	1.47	1.38
13	B	817	CLA	C4D-CHA	2.58	1.47	1.38
13	B	806	CLA	C1B-NB	-2.58	1.32	1.35
13	B	813	CLA	C4C-C3C	2.58	1.49	1.45
13	A	813	CLA	C4D-CHA	2.58	1.47	1.38
13	B	829	CLA	C3D-C4D	-2.58	1.38	1.44
13	B	807	CLA	C4D-CHA	2.58	1.47	1.38
13	A	824	CLA	C4D-CHA	2.58	1.47	1.38
13	A	828	CLA	C1C-NC	-2.57	1.34	1.37
13	F	203	CLA	C4D-CHA	2.57	1.47	1.38
13	B	801	CLA	C4D-CHA	2.57	1.47	1.38
13	A	825	CLA	C4C-C3C	2.57	1.49	1.45
13	A	815	CLA	C1B-NB	-2.57	1.32	1.35
13	B	833	CLA	C4D-CHA	2.57	1.47	1.38
13	A	836	CLA	C4D-CHA	2.57	1.47	1.38
13	B	813	CLA	C4D-CHA	2.57	1.47	1.38
13	A	812	CLA	C1B-NB	-2.56	1.32	1.35
13	B	832	CLA	C1B-NB	-2.56	1.32	1.35
13	A	826	CLA	C3D-C4D	-2.56	1.38	1.44
16	A	847	BCR	C30-C25	-2.56	1.50	1.53
13	B	819	CLA	C3D-C4D	-2.56	1.38	1.44
13	B	826	CLA	C4D-CHA	2.56	1.47	1.38
13	B	806	CLA	C4D-CHA	2.56	1.47	1.38
13	A	823	CLA	C4D-CHA	2.56	1.47	1.38
13	A	807	CLA	C3D-C4D	-2.55	1.38	1.44
13	A	843	CLA	C4D-CHA	2.55	1.47	1.38
13	B	831	CLA	C3D-C4D	-2.55	1.38	1.44
13	B	808	CLA	C4D-CHA	2.55	1.47	1.38
13	A	833	CLA	C3D-C4D	-2.55	1.38	1.44
13	A	828	CLA	C4D-CHA	2.55	1.47	1.38
13	B	828	CLA	C4D-CHA	2.55	1.47	1.38
13	A	834	CLA	C4D-CHA	2.55	1.47	1.38
13	A	828	CLA	C3D-C4D	-2.54	1.38	1.44
13	B	825	CLA	C4B-CHC	2.54	1.48	1.41
13	B	829	CLA	C4D-CHA	2.53	1.47	1.38
13	A	825	CLA	C3D-C4D	-2.53	1.38	1.44
13	A	818	CLA	C3D-C4D	-2.53	1.38	1.44
13	B	814	CLA	C4D-CHA	2.53	1.47	1.38
13	B	825	CLA	C1B-NB	-2.52	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	830	CLA	C1B-NB	-2.52	1.33	1.35
13	A	832	CLA	C4D-CHA	2.52	1.47	1.38
13	A	819	CLA	C4B-NB	-2.52	1.33	1.35
13	A	830	CLA	C3D-C4D	-2.52	1.38	1.44
13	B	832	CLA	C3D-C4D	-2.52	1.38	1.44
13	A	822	CLA	C3D-C4D	-2.52	1.38	1.44
13	A	822	CLA	C4D-CHA	2.52	1.47	1.38
13	B	830	CLA	C3D-C4D	-2.51	1.38	1.44
13	A	808	CLA	C4C-C3C	2.51	1.49	1.45
13	B	821	CLA	C4D-CHA	2.51	1.47	1.38
13	A	804	CLA	C4D-CHA	2.51	1.47	1.38
13	A	839	CLA	C4D-CHA	2.51	1.47	1.38
13	B	805	CLA	C4D-CHA	2.51	1.47	1.38
13	A	831	CLA	C4D-CHA	2.51	1.47	1.38
13	B	820	CLA	C1B-NB	-2.50	1.33	1.35
13	K	203	CLA	C1B-NB	-2.50	1.33	1.35
13	B	832	CLA	C4D-CHA	2.50	1.47	1.38
13	L	204	CLA	C4D-CHA	2.50	1.47	1.38
13	A	811	CLA	C1B-NB	-2.50	1.33	1.35
13	A	804	CLA	C3D-C4D	-2.50	1.38	1.44
13	B	824	CLA	C3D-C4D	-2.49	1.38	1.44
13	B	808	CLA	C1B-NB	-2.49	1.33	1.35
13	A	833	CLA	C4D-CHA	2.49	1.47	1.38
13	B	822	CLA	C4D-CHA	2.49	1.47	1.38
13	A	808	CLA	C3D-C4D	-2.49	1.38	1.44
13	A	810	CLA	C3D-C4D	-2.49	1.38	1.44
16	F	202	BCR	C30-C25	-2.48	1.50	1.53
13	A	830	CLA	C4D-CHA	2.48	1.47	1.38
13	A	814	CLA	C3D-C4D	-2.48	1.38	1.44
13	A	804	CLA	C1B-NB	-2.48	1.33	1.35
16	J	103	BCR	C1-C6	-2.48	1.50	1.53
13	A	828	CLA	C4B-CHC	2.48	1.47	1.41
13	A	824	CLA	C3D-C4D	-2.47	1.38	1.44
13	B	802	CLA	C1C-NC	-2.47	1.34	1.37
13	B	809	CLA	C4D-CHA	2.47	1.47	1.38
13	B	826	CLA	C4C-C3C	2.47	1.49	1.45
13	A	840	CLA	C4D-CHA	2.47	1.47	1.38
16	A	851	BCR	C30-C25	-2.47	1.50	1.53
13	A	810	CLA	C1B-NB	-2.47	1.33	1.35
13	A	814	CLA	C1C-NC	-2.46	1.34	1.37
13	B	827	CLA	C4C-C3C	2.46	1.49	1.45
13	B	831	CLA	C4D-CHA	2.46	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	839	CLA	C3D-C4D	-2.46	1.38	1.44
13	A	818	CLA	C4D-CHA	2.46	1.47	1.38
13	B	826	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	822	CLA	C3D-C4D	-2.45	1.38	1.44
13	K	201	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	819	CLA	C4D-CHA	2.45	1.47	1.38
13	B	824	CLA	C4C-C3C	2.45	1.49	1.45
13	A	814	CLA	C4C-C3C	2.45	1.49	1.45
13	B	817	CLA	C3D-C4D	-2.45	1.38	1.44
13	A	812	CLA	C4D-CHA	2.45	1.47	1.38
13	B	824	CLA	C4D-CHA	2.45	1.47	1.38
12	A	801	CL0	C4D-CHA	2.45	1.47	1.38
13	A	835	CLA	C3D-C4D	-2.45	1.38	1.44
13	A	825	CLA	C1B-NB	-2.45	1.33	1.35
13	A	803	CLA	C4D-CHA	2.44	1.47	1.38
13	B	820	CLA	C3D-C4D	-2.44	1.38	1.44
13	B	814	CLA	C1B-NB	-2.44	1.33	1.35
13	A	807	CLA	C4D-CHA	2.44	1.47	1.38
13	A	805	CLA	C4B-CHC	2.44	1.47	1.41
13	L	203	CLA	C3D-C4D	-2.44	1.38	1.44
13	A	831	CLA	C3D-C4D	-2.44	1.38	1.44
13	L	204	CLA	C3D-C4D	-2.44	1.38	1.44
13	A	806	CLA	C4D-CHA	2.44	1.47	1.38
13	B	826	CLA	C1B-NB	-2.44	1.33	1.35
13	F	203	CLA	C4C-C3C	2.44	1.49	1.45
13	A	818	CLA	C1C-NC	-2.44	1.34	1.37
13	A	826	CLA	C4D-CHA	2.44	1.47	1.38
13	B	833	CLA	C1C-NC	-2.44	1.34	1.37
13	A	822	CLA	C1B-NB	-2.43	1.33	1.35
13	A	803	CLA	C4B-NB	-2.43	1.33	1.35
13	A	829	CLA	C3D-C4D	-2.43	1.38	1.44
13	A	816	CLA	C1B-NB	-2.43	1.33	1.35
13	B	819	CLA	C4B-NB	-2.43	1.33	1.35
13	A	838	CLA	C4D-CHA	2.43	1.47	1.38
13	A	829	CLA	C4B-CHC	2.43	1.47	1.41
13	A	817	CLA	C1B-NB	-2.43	1.33	1.35
13	B	821	CLA	C3D-C4D	-2.43	1.38	1.44
13	A	844	CLA	C1B-NB	-2.43	1.33	1.35
13	A	837	CLA	C3D-C4D	-2.43	1.38	1.44
13	B	804	CLA	C4D-CHA	2.43	1.47	1.38
13	A	811	CLA	C3D-C4D	-2.43	1.38	1.44
13	B	803	CLA	C4D-CHA	2.42	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	820	CLA	C3D-C4D	-2.42	1.38	1.44
13	B	829	CLA	C4B-CHC	2.42	1.47	1.41
13	B	818	CLA	C3D-C4D	-2.42	1.38	1.44
13	B	811	CLA	C4D-CHA	2.42	1.47	1.38
13	A	816	CLA	C4C-C3C	2.41	1.49	1.45
13	B	828	CLA	C4C-C3C	2.41	1.49	1.45
13	B	823	CLA	C4D-CHA	2.41	1.47	1.38
13	A	813	CLA	C3D-C4D	-2.41	1.38	1.44
13	A	827	CLA	C4D-CHA	2.41	1.47	1.38
13	B	804	CLA	C1C-NC	-2.41	1.34	1.37
13	A	815	CLA	C3D-C4D	-2.40	1.38	1.44
13	B	830	CLA	C4D-CHA	2.40	1.46	1.38
13	A	836	CLA	C3D-C4D	-2.40	1.38	1.44
13	B	825	CLA	C3D-C4D	-2.40	1.38	1.44
16	A	848	BCR	C1-C6	-2.40	1.50	1.53
13	B	810	CLA	C3D-C4D	-2.40	1.38	1.44
13	A	834	CLA	C3D-C4D	-2.40	1.38	1.44
13	B	827	CLA	C4B-CHC	2.39	1.47	1.41
13	B	806	CLA	C3D-C4D	-2.39	1.38	1.44
13	B	805	CLA	C3D-C4D	-2.39	1.38	1.44
13	B	812	CLA	C4C-C3C	2.39	1.49	1.45
13	B	802	CLA	C3D-C4D	-2.39	1.38	1.44
13	B	811	CLA	C4B-CHC	2.39	1.47	1.41
13	B	820	CLA	C4B-CHC	2.39	1.47	1.41
13	A	824	CLA	C4C-C3C	2.38	1.49	1.45
13	A	821	CLA	C3D-C4D	-2.38	1.38	1.44
13	A	843	CLA	C3D-C4D	-2.38	1.38	1.44
13	A	830	CLA	C1B-NB	-2.38	1.33	1.35
13	A	841	CLA	C4B-CHC	2.38	1.47	1.41
16	I	101	BCR	C30-C25	-2.38	1.50	1.53
13	A	832	CLA	C4C-C3C	2.38	1.49	1.45
13	A	804	CLA	C1C-NC	-2.37	1.34	1.37
13	A	810	CLA	C1B-CHB	2.37	1.47	1.41
13	A	822	CLA	C4B-CHC	2.37	1.47	1.41
13	A	837	CLA	C1B-NB	-2.37	1.33	1.35
13	J	101	CLA	C4C-C3C	2.37	1.49	1.45
13	A	805	CLA	C3D-C4D	-2.37	1.38	1.44
13	A	803	CLA	C3D-C4D	-2.37	1.38	1.44
13	B	814	CLA	C3D-C4D	-2.36	1.38	1.44
13	A	802	CLA	C4D-CHA	2.36	1.46	1.38
13	B	812	CLA	C1B-NB	-2.36	1.33	1.35
13	A	842	CLA	C3D-C4D	-2.36	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	842	CLA	C4B-CHC	2.36	1.47	1.41
13	B	816	CLA	C3D-C4D	-2.36	1.38	1.44
13	B	809	CLA	C1C-NC	-2.36	1.34	1.37
13	B	827	CLA	C3D-C4D	-2.36	1.38	1.44
13	A	818	CLA	C1B-NB	-2.36	1.33	1.35
13	B	817	CLA	C1B-NB	-2.36	1.33	1.35
13	A	837	CLA	C4B-CHC	2.35	1.47	1.41
13	B	812	CLA	C3D-C4D	-2.35	1.38	1.44
13	A	838	CLA	C1B-CHB	2.35	1.47	1.41
13	K	203	CLA	C3D-C4D	-2.35	1.38	1.44
13	A	834	CLA	C1B-NB	-2.35	1.33	1.35
13	A	816	CLA	C3D-C4D	-2.34	1.38	1.44
13	B	809	CLA	C3D-C4D	-2.34	1.38	1.44
13	A	842	CLA	C1C-C2C	2.34	1.49	1.44
13	A	807	CLA	C4B-CHC	2.34	1.47	1.41
13	B	824	CLA	C1B-NB	-2.34	1.33	1.35
13	A	843	CLA	C4C-C3C	2.34	1.49	1.45
13	B	823	CLA	C1C-NC	-2.34	1.34	1.37
13	F	203	CLA	C3D-C4D	-2.34	1.38	1.44
13	B	825	CLA	C4D-CHA	2.34	1.46	1.38
13	L	203	CLA	C4D-CHA	2.33	1.46	1.38
16	L	206	BCR	C30-C25	-2.33	1.50	1.53
13	B	801	CLA	C3D-C4D	-2.33	1.38	1.44
13	A	809	CLA	C3D-C4D	-2.33	1.38	1.44
13	L	202	CLA	C3D-C4D	-2.33	1.38	1.44
13	B	802	CLA	C4D-CHA	2.32	1.46	1.38
13	A	813	CLA	C4C-C3C	2.32	1.49	1.45
13	B	813	CLA	C4B-CHC	2.32	1.47	1.41
13	A	840	CLA	C4B-CHC	2.32	1.47	1.41
13	B	815	CLA	C4C-C3C	2.32	1.49	1.45
13	B	828	CLA	C1B-NB	-2.32	1.33	1.35
13	A	821	CLA	C1C-NC	-2.32	1.34	1.37
13	B	811	CLA	C1B-NB	-2.32	1.33	1.35
13	A	817	CLA	C3D-C4D	-2.32	1.38	1.44
13	A	833	CLA	C4B-CHC	2.32	1.47	1.41
13	A	812	CLA	C4C-C3C	2.32	1.49	1.45
13	K	201	CLA	C4C-C3C	2.30	1.49	1.45
13	A	817	CLA	C4C-C3C	2.30	1.49	1.45
13	A	809	CLA	C4B-CHC	2.30	1.47	1.41
13	A	823	CLA	C3D-C4D	-2.30	1.39	1.44
13	B	801	CLA	C1B-CHB	2.30	1.47	1.41
13	B	813	CLA	C3D-C4D	-2.30	1.39	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	827	CLA	C4B-CHC	2.30	1.47	1.41
13	B	832	CLA	C4C-C3C	2.30	1.49	1.45
13	L	202	CLA	C4B-CHC	2.29	1.47	1.41
13	A	803	CLA	C4B-CHC	2.29	1.47	1.41
13	A	810	CLA	C1C-NC	-2.29	1.34	1.37
13	B	829	CLA	C1C-C2C	2.29	1.49	1.44
13	A	830	CLA	C4B-CHC	2.29	1.47	1.41
13	A	823	CLA	C4B-CHC	2.29	1.47	1.41
13	J	101	CLA	C4B-CHC	2.29	1.47	1.41
13	B	815	CLA	C1B-NB	-2.29	1.33	1.35
13	K	201	CLA	C4B-CHC	2.29	1.47	1.41
13	B	817	CLA	C4B-CHC	2.28	1.47	1.41
13	B	802	CLA	C1B-NB	-2.28	1.33	1.35
13	B	803	CLA	C1C-C2C	2.28	1.49	1.44
13	B	829	CLA	C1B-NB	-2.28	1.33	1.35
16	K	202	BCR	C30-C25	-2.28	1.50	1.53
13	B	807	CLA	C1C-NC	-2.28	1.34	1.37
13	B	828	CLA	C3D-C4D	-2.28	1.39	1.44
13	A	826	CLA	C4B-CHC	2.28	1.47	1.41
13	A	815	CLA	C4B-CHC	2.27	1.47	1.41
13	A	837	CLA	C4C-C3C	2.27	1.48	1.45
13	B	833	CLA	C4C-C3C	2.27	1.48	1.45
13	B	803	CLA	C3D-C4D	-2.27	1.39	1.44
13	B	801	CLA	C1B-NB	-2.26	1.33	1.35
13	A	831	CLA	C4B-NB	-2.26	1.33	1.35
13	B	821	CLA	C4B-CHC	2.26	1.47	1.41
13	A	838	CLA	C1C-C2C	2.26	1.48	1.44
13	A	841	CLA	C3D-C4D	-2.26	1.39	1.44
13	B	808	CLA	C3D-C4D	-2.26	1.39	1.44
13	B	830	CLA	C4B-CHC	2.26	1.47	1.41
13	A	815	CLA	C1C-C2C	2.26	1.48	1.44
13	A	840	CLA	C1C-NC	-2.26	1.34	1.37
16	A	849	BCR	C30-C25	-2.25	1.50	1.53
13	A	831	CLA	C1C-NC	-2.25	1.34	1.37
13	A	831	CLA	C4C-C3C	2.25	1.48	1.45
13	B	804	CLA	C4B-NB	-2.25	1.33	1.35
13	A	843	CLA	C1B-NB	-2.25	1.33	1.35
13	B	823	CLA	C4B-NB	-2.25	1.33	1.35
13	A	812	CLA	C1C-NC	-2.25	1.34	1.37
13	F	203	CLA	C4B-CHC	2.25	1.47	1.41
13	A	836	CLA	C1B-NB	-2.25	1.33	1.35
13	A	823	CLA	C1C-C2C	2.24	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	814	CLA	C4B-NB	-2.24	1.33	1.35
13	B	819	CLA	C4B-CHC	2.24	1.47	1.41
13	A	839	CLA	C4B-CHC	2.24	1.47	1.41
13	A	805	CLA	C1C-C2C	2.24	1.48	1.44
13	A	830	CLA	C1C-C2C	2.24	1.48	1.44
13	A	822	CLA	C1C-C2C	2.24	1.48	1.44
13	B	806	CLA	C1C-NC	-2.23	1.34	1.37
13	A	834	CLA	C4B-CHC	2.23	1.47	1.41
13	B	815	CLA	C3D-C4D	-2.23	1.39	1.44
13	B	828	CLA	C4B-CHC	2.23	1.47	1.41
13	A	816	CLA	C1C-NC	-2.23	1.34	1.37
13	A	843	CLA	C4B-CHC	2.23	1.47	1.41
13	L	202	CLA	C1C-C2C	2.23	1.48	1.44
13	A	809	CLA	C4C-C3C	2.23	1.48	1.45
13	B	807	CLA	C4B-CHC	2.23	1.47	1.41
13	B	816	CLA	C1B-NB	-2.23	1.33	1.35
13	B	801	CLA	C4C-C3C	2.22	1.48	1.45
13	L	204	CLA	C1B-NB	-2.22	1.33	1.35
13	B	804	CLA	C4B-CHC	2.22	1.47	1.41
13	B	831	CLA	C1B-NB	-2.21	1.33	1.35
13	B	805	CLA	C1B-NB	-2.21	1.33	1.35
13	A	810	CLA	C4B-CHC	2.21	1.47	1.41
13	B	825	CLA	C1C-C2C	2.21	1.48	1.44
13	A	844	CLA	C3D-C4D	-2.21	1.39	1.44
13	B	831	CLA	C4B-CHC	2.21	1.47	1.41
13	A	802	CLA	C4C-C3C	2.20	1.48	1.45
13	B	814	CLA	C4B-CHC	2.20	1.47	1.41
13	A	826	CLA	C1B-CHB	2.20	1.47	1.41
13	B	805	CLA	C4B-CHC	2.20	1.47	1.41
13	L	202	CLA	C1B-NB	-2.20	1.33	1.35
13	B	803	CLA	C4B-CHC	2.20	1.47	1.41
13	A	804	CLA	C4B-CHC	2.20	1.47	1.41
13	A	826	CLA	C1C-NC	-2.20	1.34	1.37
13	L	204	CLA	C4C-C3C	2.19	1.48	1.45
13	A	820	CLA	C4C-C3C	2.19	1.48	1.45
13	K	203	CLA	C4B-CHC	2.19	1.47	1.41
13	A	841	CLA	C4C-C3C	2.19	1.48	1.45
13	B	808	CLA	C4B-CHC	2.18	1.47	1.41
13	A	837	CLA	C1C-C2C	2.18	1.48	1.44
13	A	835	CLA	C1C-NC	-2.18	1.34	1.37
13	B	827	CLA	C1C-C2C	2.18	1.48	1.44
13	B	809	CLA	C4B-NB	-2.18	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	839	CLA	C1C-NC	-2.18	1.34	1.37
13	A	838	CLA	C4B-CHC	2.18	1.47	1.41
13	L	204	CLA	C4B-CHC	2.18	1.47	1.41
13	B	828	CLA	C1C-C2C	2.18	1.48	1.44
16	A	848	BCR	C30-C25	-2.18	1.50	1.53
13	A	827	CLA	C1C-C2C	2.18	1.48	1.44
13	A	811	CLA	C4C-C3C	2.17	1.48	1.45
13	B	806	CLA	C4C-C3C	2.17	1.48	1.45
13	A	811	CLA	C1C-NC	-2.17	1.34	1.37
13	A	841	CLA	C1C-NC	-2.17	1.34	1.37
13	B	824	CLA	C4B-CHC	2.17	1.47	1.41
13	A	807	CLA	C1C-NC	-2.17	1.34	1.37
13	A	844	CLA	C1C-NC	-2.17	1.34	1.37
13	A	806	CLA	C1C-NC	-2.16	1.34	1.37
13	B	801	CLA	C4B-CHC	2.16	1.47	1.41
13	B	820	CLA	C1C-NC	-2.16	1.34	1.37
13	A	820	CLA	C1C-NC	-2.16	1.34	1.37
13	F	203	CLA	C1C-C2C	2.16	1.48	1.44
13	K	203	CLA	C1C-NC	-2.16	1.34	1.37
13	A	833	CLA	C1C-NC	-2.16	1.34	1.37
13	A	844	CLA	C4B-CHC	2.16	1.47	1.41
12	A	801	CL0	C1C-C2C	2.15	1.48	1.44
13	B	826	CLA	C4B-CHC	2.15	1.47	1.41
13	A	838	CLA	C1B-NB	-2.15	1.33	1.35
13	A	825	CLA	C4B-CHC	2.15	1.47	1.41
13	A	813	CLA	C4B-CHC	2.15	1.47	1.41
13	B	819	CLA	C4C-C3C	2.14	1.48	1.45
13	B	821	CLA	C1C-C2C	2.14	1.48	1.44
13	B	811	CLA	C1B-CHB	2.14	1.47	1.41
13	A	814	CLA	C4B-CHC	2.14	1.46	1.41
13	B	832	CLA	C4B-CHC	2.14	1.46	1.41
13	A	817	CLA	C1C-NC	-2.14	1.34	1.37
13	K	203	CLA	C1B-CHB	2.14	1.46	1.41
13	B	803	CLA	C4B-NB	-2.14	1.33	1.35
13	B	817	CLA	C4C-C3C	2.14	1.48	1.45
13	B	814	CLA	C1C-C2C	2.14	1.48	1.44
13	B	804	CLA	C3D-C4D	-2.14	1.39	1.44
13	B	820	CLA	C1C-C2C	2.14	1.48	1.44
13	A	827	CLA	C4B-NB	-2.14	1.33	1.35
13	A	842	CLA	C4C-C3C	2.14	1.48	1.45
13	A	836	CLA	C4C-C3C	2.13	1.48	1.45
13	B	810	CLA	C1C-C2C	2.13	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	812	CLA	C4B-CHC	2.13	1.46	1.41
13	A	809	CLA	C1C-NC	-2.13	1.34	1.37
13	A	835	CLA	C4C-C3C	2.13	1.48	1.45
13	B	832	CLA	C1C-C2C	2.13	1.48	1.44
13	B	831	CLA	C1B-CHB	2.13	1.46	1.41
13	K	203	CLA	C4C-C3C	2.13	1.48	1.45
13	B	802	CLA	C1B-CHB	2.13	1.46	1.41
13	B	815	CLA	C1C-NC	-2.13	1.34	1.37
13	B	812	CLA	C4B-CHC	2.13	1.46	1.41
13	B	816	CLA	C4C-C3C	2.13	1.48	1.45
13	B	826	CLA	C1C-NC	-2.12	1.34	1.37
13	B	801	CLA	C1C-NC	-2.12	1.34	1.37
13	A	832	CLA	C4B-CHC	2.12	1.46	1.41
13	A	811	CLA	C4B-CHC	2.12	1.46	1.41
13	A	841	CLA	C1C-C2C	2.12	1.48	1.44
13	A	816	CLA	C4B-CHC	2.12	1.46	1.41
13	A	834	CLA	C1C-NC	-2.11	1.34	1.37
13	B	831	CLA	C1C-NC	-2.11	1.34	1.37
13	B	813	CLA	C1C-NC	-2.11	1.34	1.37
13	A	842	CLA	C1B-CHB	2.11	1.46	1.41
13	L	203	CLA	C4C-C3C	2.11	1.48	1.45
13	A	811	CLA	C1B-CHB	2.11	1.46	1.41
13	A	807	CLA	C4B-NB	-2.10	1.33	1.35
13	A	824	CLA	C1C-NC	-2.10	1.34	1.37
13	B	831	CLA	C1C-C2C	2.10	1.48	1.44
13	B	814	CLA	C4B-NB	-2.10	1.33	1.35
13	B	808	CLA	C4C-C3C	2.10	1.48	1.45
13	B	816	CLA	C1C-C2C	2.10	1.48	1.44
12	A	801	CL0	C1B-CHB	2.10	1.46	1.41
13	A	841	CLA	C1A-CHA	2.09	1.51	1.43
13	A	840	CLA	C1C-C2C	2.09	1.48	1.44
13	J	101	CLA	C3D-C4D	-2.09	1.39	1.44
12	A	801	CL0	C4B-CHC	2.09	1.46	1.41
13	K	201	CLA	C1B-CHB	2.09	1.46	1.41
16	B	837	BCR	C33-C5	-2.09	1.47	1.50
13	A	810	CLA	C4C-C3C	2.09	1.48	1.45
13	L	203	CLA	C1C-NC	-2.09	1.34	1.37
13	A	835	CLA	C1A-CHA	2.09	1.51	1.43
13	A	802	CLA	C1C-NC	-2.09	1.34	1.37
13	L	203	CLA	C4B-CHC	2.09	1.46	1.41
13	A	836	CLA	C4B-CHC	2.09	1.46	1.41
13	B	808	CLA	C1C-C2C	2.09	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	822	CLA	C1C-NC	-2.09	1.34	1.37
13	B	822	CLA	C1B-CHB	2.08	1.46	1.41
13	B	807	CLA	C4B-NB	-2.08	1.33	1.35
13	B	818	CLA	C1A-CHA	2.08	1.51	1.43
13	A	819	CLA	C4B-CHC	2.08	1.46	1.41
13	B	810	CLA	C4B-CHC	2.08	1.46	1.41
16	A	851	BCR	C33-C5	-2.08	1.47	1.50
13	K	203	CLA	C1C-C2C	2.08	1.48	1.44
13	A	824	CLA	C4B-CHC	2.08	1.46	1.41
13	B	812	CLA	C1C-C2C	2.08	1.48	1.44
13	A	832	CLA	C4B-NB	-2.08	1.33	1.35
13	B	823	CLA	C1B-CHB	2.08	1.46	1.41
13	B	827	CLA	C1C-NC	-2.08	1.34	1.37
13	A	821	CLA	C1B-CHB	2.08	1.46	1.41
13	B	803	CLA	C1C-NC	-2.08	1.34	1.37
13	A	822	CLA	C1C-NC	-2.07	1.34	1.37
13	A	819	CLA	C4C-C3C	2.07	1.48	1.45
13	L	202	CLA	C4C-C3C	2.07	1.48	1.45
13	A	843	CLA	C1C-C2C	2.07	1.48	1.44
13	A	805	CLA	C4C-C3C	2.07	1.48	1.45
13	B	818	CLA	C4B-CHC	2.07	1.46	1.41
13	F	203	CLA	C1B-CHB	2.06	1.46	1.41
13	J	101	CLA	C1C-NC	-2.06	1.34	1.37
13	L	203	CLA	C1B-CHB	2.06	1.46	1.41
13	B	802	CLA	C1C-C2C	2.06	1.48	1.44
13	A	822	CLA	C4C-C3C	2.06	1.48	1.45
13	B	822	CLA	C4B-CHC	2.06	1.46	1.41
13	A	817	CLA	C1B-CHB	2.06	1.46	1.41
13	A	808	CLA	C4B-CHC	2.06	1.46	1.41
13	B	815	CLA	C4B-CHC	2.05	1.46	1.41
13	B	832	CLA	C4B-NB	-2.05	1.33	1.35
13	B	814	CLA	C1C-NC	-2.05	1.34	1.37
13	B	813	CLA	C1C-C2C	2.05	1.48	1.44
13	B	809	CLA	C4B-CHC	2.05	1.46	1.41
13	A	835	CLA	C4B-CHC	2.05	1.46	1.41
13	B	827	CLA	C1B-NB	-2.05	1.33	1.35
13	L	203	CLA	C1B-NB	-2.05	1.33	1.35
13	B	811	CLA	C1C-C2C	2.05	1.48	1.44
13	A	836	CLA	C1C-NC	-2.05	1.34	1.37
13	A	809	CLA	C1C-C2C	2.05	1.48	1.44
13	B	821	CLA	C1B-CHB	2.04	1.46	1.41
13	B	833	CLA	C1B-CHB	2.04	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	J	103	BCR	C33-C5	-2.04	1.47	1.50
13	L	204	CLA	C1C-NC	-2.04	1.34	1.37
13	A	803	CLA	C1C-NC	-2.04	1.34	1.37
13	B	806	CLA	C4B-CHC	2.04	1.46	1.41
13	B	831	CLA	C4C-C3C	2.04	1.48	1.45
13	A	844	CLA	C1B-CHB	2.04	1.46	1.41
13	B	820	CLA	C4C-C3C	2.04	1.48	1.45
13	A	824	CLA	C1C-C2C	2.04	1.48	1.44
13	B	805	CLA	C1C-C2C	2.04	1.48	1.44
13	B	804	CLA	C1A-CHA	2.03	1.51	1.43
13	B	803	CLA	C4C-C3C	2.03	1.48	1.45
13	B	829	CLA	C1B-CHB	2.03	1.46	1.41
13	A	830	CLA	C1C-NC	-2.03	1.34	1.37
13	B	828	CLA	C1B-CHB	2.03	1.46	1.41
13	B	824	CLA	C1C-C2C	2.03	1.48	1.44
13	B	816	CLA	C4B-CHC	2.03	1.46	1.41
13	B	816	CLA	C1A-CHA	2.03	1.51	1.43
13	A	823	CLA	C1B-CHB	2.03	1.46	1.41
13	B	810	CLA	C1B-CHB	2.03	1.46	1.41
13	F	203	CLA	C1B-NB	-2.02	1.33	1.35
13	A	840	CLA	C1B-CHB	2.02	1.46	1.41
16	L	205	BCR	C33-C5	-2.02	1.47	1.50
16	K	202	BCR	C33-C5	-2.02	1.47	1.50
13	B	811	CLA	C1C-NC	-2.02	1.34	1.37
13	A	829	CLA	C1A-CHA	2.02	1.51	1.43
13	B	813	CLA	C1B-CHB	2.02	1.46	1.41
13	B	815	CLA	C1C-C2C	2.02	1.48	1.44
13	B	827	CLA	C1B-CHB	2.02	1.46	1.41
18	B	838	LMG	O7-C8	-2.01	1.41	1.46
13	A	818	CLA	C4B-CHC	2.01	1.46	1.41
13	B	818	CLA	C1B-CHB	2.01	1.46	1.41
13	A	803	CLA	C1C-C2C	2.01	1.48	1.44
13	B	816	CLA	C1B-CHB	2.01	1.46	1.41
13	B	820	CLA	C1B-CHB	2.01	1.46	1.41
13	B	813	CLA	C1B-NB	-2.01	1.33	1.35
16	B	837	BCR	C38-C26	-2.00	1.47	1.50
13	A	843	CLA	C1A-CHA	2.00	1.51	1.43
13	A	838	CLA	C1C-NC	-2.00	1.34	1.37
13	B	819	CLA	C1C-NC	-2.00	1.34	1.37
13	B	817	CLA	C1C-NC	-2.00	1.34	1.37
13	B	825	CLA	C4C-C3C	2.00	1.48	1.45
13	A	815	CLA	C4C-C3C	2.00	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	813	CLA	C1C-C2C	2.00	1.48	1.44

All (2442) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	825	CLA	C1D-ND-C4D	-10.56	98.84	106.33
13	L	203	CLA	C1D-ND-C4D	-10.19	99.10	106.33
13	B	802	CLA	C1D-ND-C4D	-9.76	99.40	106.33
13	B	830	CLA	C1D-ND-C4D	-9.68	99.46	106.33
13	L	202	CLA	C1D-ND-C4D	-9.59	99.52	106.33
13	A	818	CLA	C1D-ND-C4D	-9.56	99.54	106.33
13	A	823	CLA	C1D-ND-C4D	-9.55	99.55	106.33
13	B	831	CLA	C1D-ND-C4D	-9.49	99.59	106.33
13	B	825	CLA	C2D-C1D-ND	9.44	117.06	110.10
13	B	828	CLA	C1D-ND-C4D	-9.44	99.63	106.33
13	B	827	CLA	C1D-ND-C4D	-9.39	99.67	106.33
13	B	804	CLA	C2D-C1D-ND	9.35	116.99	110.10
13	A	806	CLA	C1D-ND-C4D	-9.34	99.70	106.33
13	A	844	CLA	C1D-ND-C4D	-9.34	99.70	106.33
13	B	805	CLA	C1D-ND-C4D	-9.33	99.71	106.33
13	B	804	CLA	C1D-ND-C4D	-9.30	99.73	106.33
13	B	824	CLA	C1D-ND-C4D	-9.28	99.75	106.33
13	A	809	CLA	C1D-ND-C4D	-9.26	99.76	106.33
13	A	816	CLA	C1D-ND-C4D	-9.19	99.81	106.33
13	B	808	CLA	C1D-ND-C4D	-9.18	99.81	106.33
13	B	821	CLA	C1D-ND-C4D	-9.09	99.88	106.33
13	L	203	CLA	C2D-C1D-ND	9.08	116.79	110.10
13	A	812	CLA	C1D-ND-C4D	-9.08	99.89	106.33
13	B	803	CLA	C1D-ND-C4D	-9.06	99.90	106.33
13	B	802	CLA	C2D-C1D-ND	9.06	116.78	110.10
13	A	835	CLA	C1D-ND-C4D	-9.05	99.90	106.33
13	A	833	CLA	C1D-ND-C4D	-9.05	99.91	106.33
13	B	832	CLA	C1D-ND-C4D	-9.05	99.91	106.33
13	B	816	CLA	C1D-ND-C4D	-9.03	99.92	106.33
13	A	842	CLA	C1D-ND-C4D	-9.02	99.93	106.33
13	A	827	CLA	C1D-ND-C4D	-9.00	99.94	106.33
13	A	836	CLA	C1D-ND-C4D	-9.00	99.94	106.33
13	L	204	CLA	C1D-ND-C4D	-9.00	99.94	106.33
13	A	824	CLA	C1D-ND-C4D	-8.98	99.95	106.33
13	B	814	CLA	C1D-ND-C4D	-8.97	99.96	106.33
13	A	840	CLA	C1D-ND-C4D	-8.95	99.98	106.33
13	K	201	CLA	C1D-ND-C4D	-8.94	99.98	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	807	CLA	C1D-ND-C4D	-8.94	99.98	106.33
13	A	822	CLA	C1D-ND-C4D	-8.92	100.00	106.33
13	A	843	CLA	C1D-ND-C4D	-8.92	100.00	106.33
13	B	826	CLA	C1D-ND-C4D	-8.92	100.00	106.33
13	B	817	CLA	C1D-ND-C4D	-8.90	100.01	106.33
13	B	803	CLA	C2D-C1D-ND	8.89	116.66	110.10
13	A	817	CLA	C1D-ND-C4D	-8.89	100.02	106.33
13	A	821	CLA	C1D-ND-C4D	-8.88	100.03	106.33
13	B	807	CLA	C1D-ND-C4D	-8.88	100.03	106.33
13	A	839	CLA	C1D-ND-C4D	-8.88	100.03	106.33
13	B	815	CLA	C1D-ND-C4D	-8.86	100.04	106.33
13	A	826	CLA	C1D-ND-C4D	-8.86	100.04	106.33
13	A	804	CLA	C1D-ND-C4D	-8.85	100.05	106.33
12	A	801	CL0	C1D-ND-C4D	-8.83	100.06	106.33
13	B	813	CLA	C1D-ND-C4D	-8.82	100.07	106.33
13	A	834	CLA	C1D-ND-C4D	-8.80	100.08	106.33
13	A	829	CLA	C1D-ND-C4D	-8.79	100.09	106.33
13	B	812	CLA	C1D-ND-C4D	-8.78	100.10	106.33
13	A	831	CLA	C1D-ND-C4D	-8.76	100.11	106.33
13	B	819	CLA	C1D-ND-C4D	-8.76	100.11	106.33
13	A	811	CLA	C1D-ND-C4D	-8.75	100.12	106.33
13	A	828	CLA	C1D-ND-C4D	-8.75	100.12	106.33
13	A	823	CLA	C2D-C1D-ND	8.75	116.55	110.10
13	K	203	CLA	C1D-ND-C4D	-8.73	100.13	106.33
13	A	841	CLA	C1D-ND-C4D	-8.71	100.15	106.33
13	A	805	CLA	C1D-ND-C4D	-8.71	100.15	106.33
13	B	829	CLA	C1D-ND-C4D	-8.70	100.15	106.33
13	A	809	CLA	C2D-C1D-ND	8.70	116.52	110.10
13	A	837	CLA	C1D-ND-C4D	-8.67	100.17	106.33
13	B	801	CLA	C1D-ND-C4D	-8.63	100.20	106.33
13	B	820	CLA	C1D-ND-C4D	-8.60	100.23	106.33
13	B	822	CLA	C1D-ND-C4D	-8.59	100.23	106.33
13	A	810	CLA	C1D-ND-C4D	-8.59	100.23	106.33
13	J	101	CLA	C1D-ND-C4D	-8.58	100.24	106.33
13	A	803	CLA	C1D-ND-C4D	-8.57	100.25	106.33
13	A	815	CLA	C1D-ND-C4D	-8.55	100.26	106.33
13	B	809	CLA	C1D-ND-C4D	-8.55	100.26	106.33
13	F	203	CLA	C1D-ND-C4D	-8.54	100.27	106.33
13	A	829	CLA	C2D-C1D-ND	8.52	116.39	110.10
13	B	833	CLA	C1D-ND-C4D	-8.50	100.30	106.33
13	B	821	CLA	C2D-C1D-ND	8.50	116.36	110.10
13	B	811	CLA	C1D-ND-C4D	-8.49	100.31	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	813	CLA	C1D-ND-C4D	-8.48	100.31	106.33
13	B	830	CLA	C2D-C1D-ND	8.46	116.34	110.10
13	B	808	CLA	C2D-C1D-ND	8.45	116.33	110.10
13	A	844	CLA	C2D-C1D-ND	8.44	116.33	110.10
13	A	803	CLA	C2D-C1D-ND	8.43	116.31	110.10
13	A	832	CLA	C1D-ND-C4D	-8.40	100.37	106.33
13	B	831	CLA	C2D-C1D-ND	8.39	116.29	110.10
13	B	806	CLA	C1D-ND-C4D	-8.34	100.41	106.33
13	B	818	CLA	C1D-ND-C4D	-8.34	100.41	106.33
13	A	814	CLA	C1D-ND-C4D	-8.34	100.41	106.33
13	L	202	CLA	C2D-C1D-ND	8.27	116.20	110.10
13	A	838	CLA	C1D-ND-C4D	-8.25	100.47	106.33
13	B	810	CLA	C1D-ND-C4D	-8.23	100.48	106.33
13	A	805	CLA	C2D-C1D-ND	8.16	116.12	110.10
13	A	819	CLA	C1D-ND-C4D	-8.13	100.56	106.33
13	B	828	CLA	C2D-C1D-ND	8.12	116.09	110.10
13	A	826	CLA	C2D-C1D-ND	8.12	116.08	110.10
13	A	830	CLA	C1D-ND-C4D	-8.11	100.58	106.33
13	B	807	CLA	C2D-C1D-ND	8.10	116.08	110.10
13	A	825	CLA	C1D-ND-C4D	-8.10	100.58	106.33
13	B	829	CLA	C2D-C1D-ND	8.10	116.07	110.10
13	A	802	CLA	C1D-ND-C4D	-8.07	100.60	106.33
13	B	823	CLA	CMD-C2D-C1D	8.02	138.85	124.71
13	A	808	CLA	C1D-ND-C4D	-8.01	100.64	106.33
13	B	823	CLA	C1D-ND-C4D	-7.97	100.68	106.33
13	A	828	CLA	C2D-C1D-ND	7.95	115.96	110.10
13	B	805	CLA	C2D-C1D-ND	7.94	115.95	110.10
13	B	817	CLA	C2D-C1D-ND	7.92	115.94	110.10
13	A	842	CLA	C2D-C1D-ND	7.91	115.94	110.10
13	A	835	CLA	C2D-C1D-ND	7.90	115.93	110.10
13	A	806	CLA	C2D-C1D-ND	7.88	115.91	110.10
13	A	820	CLA	C1D-ND-C4D	-7.88	100.74	106.33
13	B	815	CLA	C2D-C1D-ND	7.88	115.91	110.10
13	A	831	CLA	C2D-C1D-ND	7.87	115.91	110.10
13	B	816	CLA	C2D-C1D-ND	7.87	115.90	110.10
13	A	841	CLA	C2D-C1D-ND	7.80	115.86	110.10
13	A	836	CLA	C2D-C1D-ND	7.80	115.85	110.10
13	B	813	CLA	C2D-C1D-ND	7.80	115.85	110.10
13	A	833	CLA	C2D-C1D-ND	7.79	115.84	110.10
13	A	818	CLA	C2D-C1D-ND	7.78	115.84	110.10
13	A	839	CLA	C2D-C1D-ND	7.78	115.84	110.10
13	B	824	CLA	C2D-C1D-ND	7.78	115.84	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	820	CLA	C2D-C1D-ND	7.78	115.84	110.10
13	A	821	CLA	C2D-C1D-ND	7.76	115.82	110.10
12	A	801	CL0	C2D-C1D-ND	7.75	115.81	110.10
13	B	810	CLA	C2D-C1D-ND	7.74	115.81	110.10
13	L	204	CLA	C2D-C1D-ND	7.73	115.80	110.10
13	B	801	CLA	C2D-C1D-ND	7.73	115.80	110.10
13	A	807	CLA	C2D-C1D-ND	7.73	115.80	110.10
13	J	101	CLA	C2D-C1D-ND	7.70	115.78	110.10
13	B	827	CLA	C2D-C1D-ND	7.70	115.78	110.10
13	A	834	CLA	C2D-C1D-ND	7.69	115.77	110.10
13	A	827	CLA	CMD-C2D-C1D	7.67	138.22	124.71
13	A	816	CLA	C2D-C1D-ND	7.66	115.75	110.10
13	A	804	CLA	C2D-C1D-ND	7.65	115.75	110.10
13	A	817	CLA	C2D-C1D-ND	7.65	115.74	110.10
13	K	203	CLA	C2D-C1D-ND	7.63	115.73	110.10
13	A	843	CLA	C2D-C1D-ND	7.63	115.73	110.10
13	A	822	CLA	C2D-C1D-ND	7.60	115.71	110.10
13	A	837	CLA	C2D-C1D-ND	7.55	115.67	110.10
13	B	809	CLA	C2D-C1D-ND	7.50	115.63	110.10
13	A	813	CLA	C2D-C1D-ND	7.49	115.63	110.10
13	B	814	CLA	C2D-C1D-ND	7.49	115.62	110.10
13	A	824	CLA	C2D-C1D-ND	7.48	115.62	110.10
13	B	811	CLA	CMD-C2D-C1D	7.48	137.90	124.71
13	A	812	CLA	C2D-C1D-ND	7.46	115.60	110.10
13	A	838	CLA	CMD-C2D-C1D	7.44	137.82	124.71
13	F	203	CLA	C2D-C1D-ND	7.40	115.56	110.10
13	A	840	CLA	C2D-C1D-ND	7.39	115.55	110.10
13	A	814	CLA	C2D-C1D-ND	7.38	115.55	110.10
13	B	832	CLA	C2D-C1D-ND	7.38	115.55	110.10
13	B	812	CLA	C2D-C1D-ND	7.38	115.54	110.10
13	B	818	CLA	C2D-C1D-ND	7.38	115.54	110.10
13	A	837	CLA	O2D-CGD-CBD	7.37	124.37	111.27
13	A	815	CLA	C2D-C1D-ND	7.37	115.54	110.10
13	A	827	CLA	C2D-C1D-ND	7.36	115.53	110.10
13	B	826	CLA	O2D-CGD-CBD	7.28	124.21	111.27
13	K	201	CLA	C2D-C1D-ND	7.27	115.46	110.10
13	B	825	CLA	CMD-C2D-C1D	7.26	137.50	124.71
13	B	830	CLA	CMD-C2D-C1D	7.24	137.47	124.71
13	A	840	CLA	CMD-C2D-C1D	7.23	137.46	124.71
13	A	812	CLA	CMD-C2D-C1D	7.23	137.46	124.71
13	B	806	CLA	C2D-C1D-ND	7.22	115.42	110.10
13	A	811	CLA	C2D-C1D-ND	7.21	115.42	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	838	CLA	C2D-C1D-ND	7.16	115.38	110.10
13	B	822	CLA	C2D-C1D-ND	7.09	115.33	110.10
13	A	810	CLA	C2D-C1D-ND	7.09	115.33	110.10
13	B	833	CLA	C2D-C1D-ND	7.09	115.33	110.10
13	B	807	CLA	CMD-C2D-C1D	7.06	137.16	124.71
13	B	832	CLA	CMD-C2D-C1D	7.02	137.08	124.71
13	B	824	CLA	CMD-C2D-C1D	7.01	137.07	124.71
13	A	825	CLA	C2D-C1D-ND	7.01	115.27	110.10
13	A	819	CLA	CMD-C2D-C1D	7.01	137.06	124.71
13	A	806	CLA	CMD-C2D-C1D	7.00	137.05	124.71
13	A	823	CLA	O2D-CGD-CBD	7.00	123.70	111.27
13	B	819	CLA	CMD-C2D-C1D	6.99	137.03	124.71
13	B	823	CLA	O2D-CGD-CBD	6.98	123.67	111.27
13	B	830	CLA	CHD-C1D-ND	-6.97	118.05	124.45
13	A	828	CLA	CMD-C2D-C1D	6.97	136.99	124.71
13	L	202	CLA	CMD-C2D-C1D	6.95	136.96	124.71
13	A	835	CLA	CMD-C2D-C1D	6.95	136.96	124.71
13	A	820	CLA	C2D-C1D-ND	6.94	115.22	110.10
13	A	808	CLA	CMD-C2D-C1D	6.94	136.95	124.71
13	B	833	CLA	CMD-C2D-C1D	6.94	136.94	124.71
13	A	815	CLA	CMD-C2D-C1D	6.93	136.93	124.71
13	A	839	CLA	O2D-CGD-CBD	6.92	123.56	111.27
13	B	827	CLA	CMD-C2D-C1D	6.92	136.90	124.71
13	A	831	CLA	CMD-C2D-C1D	6.92	136.90	124.71
13	A	802	CLA	C2D-C1D-ND	6.91	115.20	110.10
13	A	839	CLA	CMD-C2D-C1D	6.91	136.89	124.71
13	L	203	CLA	CHD-C1D-ND	-6.91	118.11	124.45
13	B	828	CLA	CMD-C2D-C1D	6.90	136.87	124.71
13	A	807	CLA	CMD-C2D-C1D	6.90	136.87	124.71
13	A	802	CLA	CMD-C2D-C1D	6.89	136.85	124.71
13	B	802	CLA	CHD-C4C-C3C	-6.88	114.73	124.84
13	B	826	CLA	C2D-C1D-ND	6.87	115.17	110.10
13	B	820	CLA	CMD-C2D-C1D	6.86	136.81	124.71
13	A	832	CLA	CMD-C2D-C1D	6.85	136.79	124.71
13	J	101	CLA	CMD-C2D-C1D	6.85	136.78	124.71
13	B	825	CLA	CHD-C1D-ND	-6.85	118.16	124.45
13	L	204	CLA	CMD-C2D-C1D	6.83	136.75	124.71
13	A	844	CLA	CMD-C2D-C1D	6.81	136.71	124.71
13	A	843	CLA	CMD-C2D-C1D	6.80	136.71	124.71
13	A	818	CLA	CMD-C2D-C1D	6.80	136.71	124.71
13	B	819	CLA	C2D-C1D-ND	6.80	115.11	110.10
13	A	819	CLA	C2D-C1D-ND	6.80	115.11	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	842	CLA	CMD-C2D-C1D	6.80	136.69	124.71
13	B	831	CLA	CMD-C2D-C1D	6.79	136.69	124.71
13	B	812	CLA	CMD-C2D-C1D	6.77	136.65	124.71
13	A	830	CLA	C2D-C1D-ND	6.73	115.07	110.10
13	A	835	CLA	O2D-CGD-CBD	6.73	123.23	111.27
13	B	816	CLA	CMD-C2D-C1D	6.72	136.56	124.71
13	A	811	CLA	CMD-C2D-C1D	6.71	136.54	124.71
13	B	826	CLA	CMD-C2D-C1D	6.71	136.54	124.71
13	A	817	CLA	CMD-C2D-C1D	6.71	136.54	124.71
13	A	816	CLA	CMD-C2D-C1D	6.71	136.53	124.71
13	B	828	CLA	CHD-C1D-ND	-6.70	118.30	124.45
13	A	833	CLA	CMD-C2D-C1D	6.69	136.50	124.71
13	B	824	CLA	CAA-C2A-C3A	-6.68	94.50	112.78
13	A	834	CLA	CMD-C2D-C1D	6.66	136.46	124.71
13	B	817	CLA	CMD-C2D-C1D	6.66	136.46	124.71
13	F	203	CLA	CMD-C2D-C1D	6.65	136.43	124.71
13	B	818	CLA	CMD-C2D-C1D	6.63	136.40	124.71
13	A	837	CLA	CMD-C2D-C1D	6.62	136.39	124.71
13	K	201	CLA	CMD-C2D-C1D	6.62	136.37	124.71
13	A	805	CLA	CMD-C2D-C1D	6.61	136.37	124.71
13	B	829	CLA	CMD-C2D-C1D	6.61	136.35	124.71
13	A	829	CLA	CHD-C4C-C3C	-6.56	115.20	124.84
12	A	801	CL0	CHD-C4C-C3C	-6.56	115.20	124.84
13	B	808	CLA	CHD-C1D-ND	-6.56	118.43	124.45
13	A	817	CLA	C2C-C1C-NC	6.55	116.11	109.97
13	A	808	CLA	C2D-C1D-ND	6.54	114.93	110.10
13	B	805	CLA	CMD-C2D-C1D	6.54	136.23	124.71
13	B	813	CLA	CMD-C2D-C1D	6.54	136.23	124.71
13	A	814	CLA	CMD-C2D-C1D	6.53	136.22	124.71
13	L	203	CLA	CMD-C2D-C1D	6.52	136.21	124.71
13	B	823	CLA	C2C-C1C-NC	6.51	116.07	109.97
13	B	806	CLA	CMD-C2D-C1D	6.50	136.17	124.71
13	A	802	CLA	C4A-NA-C1A	-6.49	103.79	106.71
13	B	810	CLA	CMD-C2D-C1D	6.49	136.14	124.71
13	A	821	CLA	CMD-C2D-C1D	6.47	136.11	124.71
13	B	824	CLA	CHD-C1D-ND	-6.44	118.53	124.45
13	A	827	CLA	CHD-C1D-ND	-6.44	118.53	124.45
13	A	840	CLA	O2D-CGD-CBD	6.42	122.68	111.27
13	A	828	CLA	CHD-C4C-C3C	-6.41	115.42	124.84
13	A	802	CLA	CHD-C1D-ND	-6.37	118.60	124.45
13	B	809	CLA	CMD-C2D-C1D	6.36	135.92	124.71
13	A	832	CLA	O2D-CGD-CBD	6.36	122.56	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	838	CLA	O2D-CGD-CBD	6.35	122.55	111.27
13	A	832	CLA	C2D-C1D-ND	6.34	114.78	110.10
13	B	811	CLA	C2D-C1D-ND	6.33	114.77	110.10
13	B	809	CLA	O2D-CGD-CBD	6.32	122.50	111.27
13	A	802	CLA	C2C-C1C-NC	6.31	115.89	109.97
13	A	807	CLA	CHD-C4C-C3C	-6.30	115.58	124.84
13	B	808	CLA	CMD-C2D-C1D	6.30	135.81	124.71
13	B	821	CLA	CHD-C4C-C3C	-6.29	115.59	124.84
13	A	821	CLA	C2C-C1C-NC	6.29	115.87	109.97
13	A	804	CLA	O2D-CGD-CBD	6.29	122.45	111.27
13	A	842	CLA	CHD-C1D-ND	-6.27	118.69	124.45
13	B	832	CLA	CHD-C1D-ND	-6.26	118.70	124.45
13	A	841	CLA	CMD-C2D-C1D	6.24	135.71	124.71
13	B	815	CLA	CMD-C2D-C1D	6.24	135.71	124.71
13	A	810	CLA	CMD-C2D-C1D	6.23	135.69	124.71
13	A	824	CLA	C2C-C1C-NC	6.23	115.81	109.97
13	A	806	CLA	O2D-CGD-CBD	6.22	122.32	111.27
13	A	813	CLA	CMD-C2D-C1D	6.22	135.67	124.71
13	A	822	CLA	CMD-C2D-C1D	6.20	135.65	124.71
13	A	816	CLA	CHD-C1D-ND	-6.20	118.76	124.45
13	B	803	CLA	O2D-CGD-CBD	6.20	122.28	111.27
13	K	201	CLA	CHD-C1D-ND	-6.20	118.76	124.45
13	B	833	CLA	C2C-C1C-NC	6.19	115.77	109.97
13	A	825	CLA	CMD-C2D-C1D	6.19	135.62	124.71
12	A	801	CL0	O2D-CGD-CBD	6.17	122.23	111.27
13	A	838	CLA	CHD-C4C-C3C	-6.16	115.79	124.84
13	B	814	CLA	CMD-C2D-C1D	6.15	135.55	124.71
13	K	203	CLA	O2D-CGD-CBD	6.14	122.18	111.27
13	A	831	CLA	CHD-C1D-ND	-6.14	118.81	124.45
13	B	807	CLA	CHD-C4C-C3C	-6.12	115.84	124.84
13	B	817	CLA	CHD-C1D-ND	-6.12	118.83	124.45
13	A	811	CLA	C2C-C1C-NC	6.12	115.70	109.97
13	A	805	CLA	O2D-CGD-CBD	6.11	122.12	111.27
13	L	202	CLA	CHD-C1D-ND	-6.10	118.84	124.45
13	B	826	CLA	CHD-C1D-ND	-6.10	118.85	124.45
13	B	829	CLA	CHD-C4C-C3C	-6.10	115.88	124.84
13	A	807	CLA	CHD-C1D-ND	-6.09	118.85	124.45
13	A	831	CLA	O2D-CGD-CBD	6.08	122.06	111.27
13	A	844	CLA	CHD-C1D-ND	-6.07	118.88	124.45
13	L	204	CLA	CHD-C1D-ND	-6.05	118.89	124.45
13	A	812	CLA	CHD-C1D-ND	-6.05	118.89	124.45
13	B	803	CLA	CHD-C4C-C3C	-6.04	115.96	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	820	CLA	CMD-C2D-C1D	6.04	135.36	124.71
13	A	818	CLA	CHD-C4C-C3C	-6.04	115.97	124.84
13	B	815	CLA	O2D-CGD-CBD	6.03	121.99	111.27
13	B	806	CLA	C2C-C1C-NC	6.03	115.62	109.97
13	A	828	CLA	O2D-CGD-CBD	6.03	121.99	111.27
13	A	821	CLA	O2D-CGD-CBD	6.03	121.98	111.27
13	A	824	CLA	CMD-C2D-C1D	6.03	135.33	124.71
13	A	830	CLA	CHD-C4C-C3C	-6.02	115.99	124.84
13	B	805	CLA	CHD-C4C-C3C	-6.02	115.99	124.84
13	B	819	CLA	CHD-C1D-ND	-6.02	118.92	124.45
13	B	811	CLA	CHD-C1D-ND	-6.01	118.93	124.45
13	B	820	CLA	CHD-C4C-C3C	-6.01	116.00	124.84
13	A	805	CLA	CHD-C1D-ND	-6.01	118.93	124.45
13	A	808	CLA	CHD-C1D-ND	-6.01	118.93	124.45
13	B	818	CLA	C2C-C1C-NC	6.01	115.60	109.97
13	A	840	CLA	CHD-C4C-C3C	-6.00	116.02	124.84
13	B	827	CLA	CHD-C1D-ND	-6.00	118.94	124.45
13	A	822	CLA	CHD-C4C-C3C	-6.00	116.03	124.84
13	A	817	CLA	CHD-C1D-ND	-6.00	118.94	124.45
13	A	844	CLA	CHD-C4C-C3C	-6.00	116.03	124.84
13	A	806	CLA	CHD-C1D-ND	-5.99	118.95	124.45
13	B	805	CLA	CHD-C1D-ND	-5.98	118.95	124.45
13	A	831	CLA	C2C-C1C-NC	5.98	115.58	109.97
13	A	837	CLA	CHD-C1D-ND	-5.97	118.97	124.45
13	A	814	CLA	CHD-C1D-ND	-5.97	118.97	124.45
13	A	818	CLA	CHD-C1D-ND	-5.94	118.99	124.45
13	A	810	CLA	C2C-C1C-NC	5.94	115.54	109.97
13	A	815	CLA	CHD-C1D-ND	-5.93	119.00	124.45
13	B	831	CLA	CHD-C1D-ND	-5.93	119.00	124.45
13	A	833	CLA	CHD-C1D-ND	-5.93	119.00	124.45
13	A	823	CLA	CHD-C1D-ND	-5.92	119.02	124.45
13	B	801	CLA	CMD-C2D-C1D	5.92	135.14	124.71
13	A	804	CLA	CMD-C2D-C1D	5.91	135.14	124.71
13	F	203	CLA	CHD-C1D-ND	-5.91	119.02	124.45
13	B	816	CLA	CHD-C1D-ND	-5.91	119.02	124.45
13	L	202	CLA	CHD-C4C-C3C	-5.90	116.16	124.84
13	B	814	CLA	CHD-C4C-C3C	-5.90	116.16	124.84
13	A	830	CLA	C4A-NA-C1A	-5.90	104.05	106.71
13	B	813	CLA	CHD-C1D-ND	-5.89	119.04	124.45
13	A	843	CLA	CHD-C1D-ND	-5.89	119.04	124.45
13	A	835	CLA	CHD-C1D-ND	-5.89	119.05	124.45
13	K	203	CLA	C2C-C1C-NC	5.88	115.48	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	829	CLA	CMD-C2D-C1D	5.87	135.06	124.71
13	A	804	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
13	A	826	CLA	CHD-C4C-C3C	-5.86	116.23	124.84
13	A	816	CLA	O2D-CGD-CBD	5.86	121.68	111.27
13	A	839	CLA	CHD-C1D-ND	-5.86	119.07	124.45
13	B	812	CLA	C2C-C1C-NC	5.86	115.46	109.97
13	A	820	CLA	C2C-C1C-NC	5.85	115.45	109.97
13	A	805	CLA	CHD-C4C-C3C	-5.85	116.24	124.84
13	A	825	CLA	CHD-C1D-ND	-5.85	119.08	124.45
13	A	808	CLA	C2C-C1C-NC	5.84	115.44	109.97
13	A	832	CLA	CHD-C1D-ND	-5.84	119.09	124.45
13	B	833	CLA	CHD-C1D-ND	-5.84	119.09	124.45
13	B	816	CLA	CHD-C4C-C3C	-5.84	116.26	124.84
13	A	834	CLA	CHD-C1D-ND	-5.83	119.09	124.45
13	A	827	CLA	CHD-C4C-C3C	-5.83	116.27	124.84
13	B	809	CLA	CHD-C4C-C3C	-5.83	116.27	124.84
13	A	836	CLA	C2C-C1C-NC	5.83	115.43	109.97
13	B	811	CLA	C2C-C1C-NC	5.83	115.43	109.97
13	A	803	CLA	CMB-C2B-C3B	5.83	135.58	124.68
13	A	833	CLA	CHD-C4C-C3C	-5.82	116.28	124.84
13	A	841	CLA	CHD-C1D-ND	-5.81	119.11	124.45
13	B	833	CLA	O2D-CGD-CBD	5.81	121.59	111.27
13	A	840	CLA	C2C-C1C-NC	5.80	115.41	109.97
13	B	810	CLA	CHD-C4C-C3C	-5.80	116.32	124.84
13	B	823	CLA	CHD-C1D-ND	-5.79	119.13	124.45
13	B	812	CLA	CHD-C1D-ND	-5.79	119.14	124.45
13	A	820	CLA	O2D-CGD-CBD	5.78	121.55	111.27
13	K	203	CLA	CMD-C2D-C1D	5.78	134.89	124.71
13	B	804	CLA	CHD-C4C-C3C	-5.77	116.35	124.84
13	B	805	CLA	O2D-CGD-CBD	5.77	121.52	111.27
13	A	819	CLA	C2C-C1C-NC	5.76	115.37	109.97
13	A	813	CLA	C2C-C1C-NC	5.76	115.36	109.97
13	J	101	CLA	CHD-C1D-ND	-5.75	119.17	124.45
13	A	834	CLA	CHD-C4C-C3C	-5.75	116.39	124.84
13	B	818	CLA	CHD-C4C-C3C	-5.74	116.40	124.84
13	A	832	CLA	C2C-C1C-NC	5.74	115.35	109.97
13	B	815	CLA	CHD-C1D-ND	-5.74	119.18	124.45
13	J	101	CLA	O2D-CGD-CBD	5.74	121.47	111.27
13	B	821	CLA	CMD-C2D-C1D	5.74	134.83	124.71
13	A	844	CLA	O2D-CGD-CBD	5.74	121.46	111.27
13	A	812	CLA	C2C-C1C-NC	5.74	115.34	109.97
13	A	825	CLA	C2C-C1C-NC	5.74	115.34	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	820	CLA	CHD-C1D-ND	-5.73	119.18	124.45
13	A	815	CLA	CHD-C4C-C3C	-5.73	116.42	124.84
13	A	818	CLA	C2C-C1C-NC	5.73	115.34	109.97
13	A	842	CLA	CHD-C4C-C3C	-5.72	116.43	124.84
13	B	802	CLA	CMD-C2D-C1D	5.72	134.79	124.71
13	B	816	CLA	O2D-CGD-CBD	5.72	121.42	111.27
13	B	804	CLA	CHD-C1D-ND	-5.71	119.20	124.45
13	B	828	CLA	O2D-CGD-CBD	5.71	121.42	111.27
13	B	822	CLA	CHD-C4C-C3C	-5.71	116.45	124.84
13	B	816	CLA	C2C-C1C-NC	5.71	115.32	109.97
13	B	828	CLA	C2C-C1C-NC	5.71	115.32	109.97
13	B	831	CLA	CHD-C4C-C3C	-5.70	116.46	124.84
13	A	841	CLA	C2C-C1C-NC	5.70	115.31	109.97
13	A	811	CLA	CHD-C1D-ND	-5.69	119.22	124.45
13	B	806	CLA	O2D-CGD-CBD	5.69	121.38	111.27
13	A	823	CLA	CMD-C2D-C1D	5.68	134.72	124.71
13	A	834	CLA	C2C-C1C-NC	5.67	115.28	109.97
13	B	818	CLA	CHD-C1D-ND	-5.67	119.25	124.45
13	A	806	CLA	CHD-C4C-C3C	-5.66	116.52	124.84
13	B	817	CLA	CHD-C4C-C3C	-5.66	116.53	124.84
13	B	811	CLA	O2D-CGD-CBD	5.64	121.30	111.27
13	A	842	CLA	C4A-NA-C1A	-5.63	104.17	106.71
13	B	829	CLA	C4A-NA-C1A	-5.63	104.17	106.71
13	K	201	CLA	C4A-NA-C1A	-5.63	104.17	106.71
13	B	822	CLA	CMD-C2D-C1D	5.63	134.64	124.71
12	A	801	CL0	C2C-C1C-NC	5.63	115.25	109.97
13	A	823	CLA	CHD-C4C-C3C	-5.63	116.57	124.84
13	B	801	CLA	C2C-C1C-NC	5.61	115.23	109.97
13	B	822	CLA	C2C-C1C-NC	5.61	115.23	109.97
13	A	842	CLA	C2C-C1C-NC	5.61	115.23	109.97
13	B	815	CLA	C2C-C1C-NC	5.60	115.22	109.97
13	K	203	CLA	CHD-C4C-C3C	-5.60	116.61	124.84
13	B	825	CLA	CHD-C4C-C3C	-5.60	116.61	124.84
13	A	835	CLA	C2C-C1C-NC	5.60	115.21	109.97
13	A	829	CLA	O2D-CGD-CBD	5.59	121.20	111.27
13	A	802	CLA	CHD-C4C-C3C	-5.58	116.63	124.84
13	A	835	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
13	B	817	CLA	C4A-NA-C1A	-5.58	104.20	106.71
13	F	203	CLA	C2C-C1C-NC	5.58	115.20	109.97
13	A	839	CLA	C2C-C1C-NC	5.58	115.20	109.97
13	B	824	CLA	C4A-NA-C1A	-5.57	104.20	106.71
13	B	832	CLA	C2C-C1C-NC	5.57	115.19	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	825	CLA	O2D-CGD-CBD	5.56	121.15	111.27
13	B	807	CLA	CHD-C1D-ND	-5.55	119.35	124.45
13	B	830	CLA	CHD-C4C-C3C	-5.55	116.68	124.84
13	B	831	CLA	C2C-C1C-NC	5.55	115.17	109.97
13	B	810	CLA	C2C-C1C-NC	5.55	115.17	109.97
13	A	814	CLA	CHD-C4C-C3C	-5.55	116.69	124.84
13	B	810	CLA	CHD-C1D-ND	-5.54	119.36	124.45
13	B	813	CLA	O2D-CGD-CBD	5.54	121.11	111.27
13	B	829	CLA	CHD-C1D-ND	-5.53	119.38	124.45
13	B	801	CLA	CHD-C4C-C3C	-5.52	116.72	124.84
13	B	814	CLA	O2D-CGD-CBD	5.52	121.07	111.27
13	B	808	CLA	C2C-C1C-NC	5.51	115.13	109.97
13	A	839	CLA	CHD-C4C-C3C	-5.50	116.75	124.84
13	A	821	CLA	CHD-C1D-ND	-5.50	119.40	124.45
13	A	813	CLA	O2D-CGD-CBD	5.50	121.03	111.27
13	B	819	CLA	C4A-NA-C1A	-5.49	104.24	106.71
13	A	816	CLA	C2C-C1C-NC	5.49	115.12	109.97
13	A	836	CLA	CHD-C4C-C3C	-5.49	116.77	124.84
13	A	836	CLA	CMD-C2D-C1D	5.49	134.38	124.71
13	A	802	CLA	O2D-CGD-CBD	5.48	121.00	111.27
13	A	820	CLA	C4A-NA-C1A	-5.48	104.24	106.71
13	A	831	CLA	CHD-C4C-C3C	-5.47	116.80	124.84
13	A	837	CLA	CHD-C4C-C3C	-5.47	116.81	124.84
13	B	807	CLA	C2C-C1C-NC	5.47	115.09	109.97
13	B	829	CLA	O2D-CGD-CBD	5.46	120.97	111.27
13	A	841	CLA	CHD-C4C-C3C	-5.46	116.81	124.84
13	B	806	CLA	CHD-C1D-ND	-5.46	119.44	124.45
13	A	809	CLA	CHD-C1D-ND	-5.46	119.44	124.45
13	B	814	CLA	CHD-C1D-ND	-5.46	119.44	124.45
13	J	101	CLA	C2C-C1C-NC	5.45	115.08	109.97
13	A	803	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
13	L	202	CLA	O2D-CGD-CBD	5.45	120.95	111.27
13	L	204	CLA	CHD-C4C-C3C	-5.44	116.84	124.84
13	A	825	CLA	O2D-CGD-CBD	5.43	120.92	111.27
13	A	829	CLA	CHD-C1D-ND	-5.43	119.47	124.45
13	B	827	CLA	C2C-C1C-NC	5.42	115.05	109.97
13	A	813	CLA	CHD-C4C-C3C	-5.42	116.88	124.84
13	A	830	CLA	CMD-C2D-C1D	5.41	134.26	124.71
13	B	811	CLA	C4A-NA-C1A	-5.41	104.27	106.71
13	A	809	CLA	O2D-CGD-CBD	5.41	120.88	111.27
13	B	831	CLA	O2D-CGD-CBD	5.41	120.88	111.27
13	A	822	CLA	O2D-CGD-CBD	5.40	120.87	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	838	CLA	CHD-C1D-ND	-5.40	119.49	124.45
13	B	809	CLA	CHD-C1D-ND	-5.40	119.50	124.45
13	B	814	CLA	C2C-C1C-NC	5.40	115.03	109.97
13	A	830	CLA	C2C-C1C-NC	5.38	115.02	109.97
13	B	820	CLA	O2D-CGD-CBD	5.38	120.83	111.27
13	A	827	CLA	C4A-NA-C1A	-5.38	104.29	106.71
13	B	826	CLA	C2C-C1C-NC	5.37	115.01	109.97
13	B	815	CLA	CHD-C4C-C3C	-5.37	116.94	124.84
13	A	838	CLA	C2C-C1C-NC	5.37	115.00	109.97
13	A	837	CLA	C2C-C1C-NC	5.37	115.00	109.97
13	B	803	CLA	C2C-C1C-NC	5.35	114.99	109.97
13	A	824	CLA	C4A-NA-C1A	-5.35	104.30	106.71
13	A	821	CLA	CHD-C4C-C3C	-5.35	116.98	124.84
13	A	813	CLA	CHD-C1D-ND	-5.35	119.54	124.45
13	A	809	CLA	CMD-C2D-C1D	5.34	134.13	124.71
13	B	812	CLA	CHD-C4C-C3C	-5.34	116.99	124.84
13	B	823	CLA	C2D-C1D-ND	5.34	114.04	110.10
13	B	828	CLA	C4A-NA-C1A	-5.34	104.31	106.71
13	A	824	CLA	CHD-C1D-ND	-5.34	119.55	124.45
13	L	203	CLA	CHD-C4C-C3C	-5.33	117.00	124.84
13	A	810	CLA	CHD-C4C-C3C	-5.33	117.00	124.84
13	B	820	CLA	C4A-NA-C1A	-5.33	104.31	106.71
13	A	809	CLA	CHD-C4C-C3C	-5.33	117.01	124.84
13	A	843	CLA	CHD-C4C-C3C	-5.32	117.01	124.84
13	L	203	CLA	C2C-C1C-NC	5.32	114.96	109.97
13	A	807	CLA	C4A-NA-C1A	-5.32	104.31	106.71
13	B	808	CLA	CHD-C4C-C3C	-5.32	117.02	124.84
13	A	815	CLA	O2D-CGD-CBD	5.32	120.71	111.27
13	J	101	CLA	CHD-C4C-C3C	-5.31	117.03	124.84
13	K	201	CLA	CHD-C4C-C3C	-5.31	117.03	124.84
13	B	820	CLA	CHD-C1D-ND	-5.31	119.58	124.45
13	A	836	CLA	CHD-C1D-ND	-5.30	119.58	124.45
13	B	812	CLA	C4A-NA-C1A	-5.30	104.33	106.71
13	A	828	CLA	CHD-C1D-ND	-5.29	119.59	124.45
13	A	822	CLA	CHD-C1D-ND	-5.29	119.59	124.45
13	L	202	CLA	C2C-C1C-NC	5.28	114.92	109.97
13	A	824	CLA	CHD-C4C-C3C	-5.27	117.09	124.84
13	B	806	CLA	CHD-C4C-C3C	-5.27	117.09	124.84
13	B	813	CLA	C4A-NA-C1A	-5.26	104.34	106.71
13	A	842	CLA	O2D-CGD-CBD	5.26	120.62	111.27
13	B	821	CLA	O2D-CGD-CBD	5.26	120.61	111.27
13	A	811	CLA	CHD-C4C-C3C	-5.26	117.11	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	844	CLA	C2C-C1C-NC	5.25	114.89	109.97
13	B	803	CLA	C4A-NA-C1A	-5.24	104.35	106.71
13	A	814	CLA	C2C-C1C-NC	5.24	114.88	109.97
13	B	825	CLA	C3D-C2D-C1D	-5.24	98.68	105.83
13	F	203	CLA	C4A-NA-C1A	-5.24	104.35	106.71
13	B	824	CLA	C2C-C1C-NC	5.24	114.88	109.97
13	B	824	CLA	CHD-C4C-C3C	-5.23	117.15	124.84
13	F	203	CLA	CHD-C4C-C3C	-5.23	117.15	124.84
13	A	814	CLA	C4A-NA-C1A	-5.23	104.36	106.71
13	A	819	CLA	CHD-C4C-C3C	-5.23	117.16	124.84
13	L	203	CLA	O2D-CGD-CBD	5.22	120.55	111.27
13	B	801	CLA	CHD-C1D-ND	-5.22	119.66	124.45
13	A	843	CLA	C2C-C1C-NC	5.22	114.86	109.97
13	B	813	CLA	CHD-C4C-C3C	-5.22	117.17	124.84
13	B	828	CLA	CHD-C4C-C3C	-5.21	117.18	124.84
13	A	840	CLA	CHD-C1D-ND	-5.21	119.67	124.45
13	B	832	CLA	CHD-C4C-C3C	-5.21	117.19	124.84
13	A	816	CLA	CHD-C4C-C3C	-5.19	117.22	124.84
13	A	833	CLA	O2D-CGD-CBD	5.18	120.48	111.27
13	A	833	CLA	C2C-C1C-NC	5.16	114.81	109.97
13	B	802	CLA	C2C-C1C-NC	5.16	114.81	109.97
13	B	819	CLA	CHD-C4C-C3C	-5.14	117.28	124.84
13	B	821	CLA	CHD-C1D-ND	-5.14	119.73	124.45
12	A	801	CL0	C3C-C4C-NC	5.14	116.34	110.57
13	B	820	CLA	C2C-C1C-NC	5.13	114.78	109.97
13	B	809	CLA	C2C-C1C-NC	5.13	114.78	109.97
13	A	812	CLA	CHD-C4C-C3C	-5.12	117.31	124.84
13	B	833	CLA	CHD-C4C-C3C	-5.12	117.31	124.84
13	B	808	CLA	O2D-CGD-CBD	5.12	120.36	111.27
13	B	827	CLA	CHD-C4C-C3C	-5.11	117.32	124.84
13	A	841	CLA	C4A-NA-C1A	-5.11	104.41	106.71
13	B	821	CLA	C2C-C1C-NC	5.11	114.75	109.97
13	B	804	CLA	CMD-C2D-C1D	5.11	133.71	124.71
13	A	809	CLA	C2C-C1C-NC	5.10	114.75	109.97
13	B	832	CLA	C4A-NA-C1A	-5.10	104.42	106.71
13	A	804	CLA	CHD-C1D-ND	-5.09	119.77	124.45
13	A	843	CLA	O2D-CGD-CBD	5.09	120.31	111.27
13	B	830	CLA	O2D-CGD-CBD	5.07	120.28	111.27
13	A	826	CLA	CMD-C2D-C1D	5.05	133.61	124.71
13	B	830	CLA	C3D-C2D-C1D	-5.05	98.94	105.83
13	B	817	CLA	C2C-C1C-NC	5.04	114.70	109.97
13	L	204	CLA	C4A-NA-C1A	-5.04	104.44	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	822	CLA	C2C-C1C-NC	5.04	114.69	109.97
13	B	818	CLA	O2D-CGD-CBD	5.04	120.22	111.27
13	B	807	CLA	C3D-C2D-C1D	-5.04	98.96	105.83
13	B	813	CLA	CAC-C3C-C4C	5.02	131.32	124.81
13	A	812	CLA	O2D-CGD-CBD	5.01	120.18	111.27
13	L	203	CLA	C3D-C2D-C1D	-5.01	98.99	105.83
13	B	829	CLA	C3D-C2D-C1D	-5.01	99.00	105.83
13	K	201	CLA	C2C-C1C-NC	5.01	114.66	109.97
12	A	801	CL0	C4A-NA-C1A	-5.00	104.46	106.71
13	A	811	CLA	O2D-CGD-CBD	5.00	120.16	111.27
13	A	823	CLA	C2C-C1C-NC	4.99	114.65	109.97
13	A	832	CLA	CHD-C4C-C3C	-4.99	117.51	124.84
13	B	804	CLA	C3D-C2D-C1D	-4.98	99.04	105.83
13	B	825	CLA	C2C-C1C-NC	4.98	114.64	109.97
13	B	802	CLA	CHD-C1D-ND	-4.97	119.89	124.45
13	A	817	CLA	CHD-C4C-C3C	-4.97	117.54	124.84
13	A	828	CLA	C3D-C2D-C1D	-4.96	99.06	105.83
13	B	812	CLA	O2D-CGD-CBD	4.96	120.08	111.27
13	B	831	CLA	C3D-C2D-C1D	-4.94	99.09	105.83
13	L	204	CLA	C2C-C1C-NC	4.94	114.60	109.97
13	L	204	CLA	O2D-CGD-CBD	4.94	120.05	111.27
13	A	819	CLA	CHD-C1D-ND	-4.94	119.92	124.45
13	B	803	CLA	CHD-C1D-ND	-4.93	119.92	124.45
13	A	804	CLA	C4A-NA-C1A	-4.93	104.49	106.71
13	K	203	CLA	CHD-C1D-ND	-4.93	119.92	124.45
13	B	822	CLA	O2D-CGD-CBD	4.93	120.03	111.27
13	A	819	CLA	C4A-NA-C1A	-4.93	104.49	106.71
13	A	829	CLA	C3D-C2D-C1D	-4.93	99.11	105.83
13	B	808	CLA	C3D-C2D-C1D	-4.93	99.11	105.83
13	B	819	CLA	C2C-C1C-NC	4.93	114.59	109.97
13	B	813	CLA	C2C-C1C-NC	4.92	114.58	109.97
13	A	808	CLA	CHD-C4C-C3C	-4.91	117.63	124.84
13	A	820	CLA	CHD-C4C-C3C	-4.90	117.63	124.84
13	B	805	CLA	C2C-C1C-NC	4.90	114.56	109.97
13	F	203	CLA	O2D-CGD-CBD	4.90	119.97	111.27
13	A	826	CLA	O2D-CGD-CBD	4.90	119.97	111.27
13	A	825	CLA	C4A-NA-C1A	-4.88	104.51	106.71
13	A	805	CLA	C3D-C2D-C1D	-4.88	99.18	105.83
13	A	829	CLA	C3C-C4C-NC	4.87	116.03	110.57
13	A	807	CLA	O2D-CGD-CBD	4.86	119.91	111.27
13	A	844	CLA	C3D-C2D-C1D	-4.86	99.19	105.83
13	B	825	CLA	C4A-NA-C1A	-4.84	104.53	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	833	CLA	C4A-NA-C1A	-4.84	104.53	106.71
13	B	830	CLA	C2C-C1C-NC	4.84	114.51	109.97
13	A	810	CLA	O2D-CGD-CBD	4.84	119.87	111.27
13	L	202	CLA	C3D-C2D-C1D	-4.83	99.24	105.83
13	B	802	CLA	C3D-C2D-C1D	-4.83	99.24	105.83
13	B	817	CLA	C3D-C2D-C1D	-4.82	99.25	105.83
13	A	836	CLA	O2D-CGD-CBD	4.82	119.83	111.27
13	B	820	CLA	C3D-C2D-C1D	-4.82	99.26	105.83
13	A	806	CLA	C2C-C1C-NC	4.81	114.48	109.97
13	B	819	CLA	O2D-CGD-CBD	4.80	119.81	111.27
13	A	803	CLA	CHD-C1D-ND	-4.80	120.04	124.45
13	B	802	CLA	C1D-CHD-C4C	-4.80	115.71	126.06
13	A	809	CLA	C3D-C2D-C1D	-4.79	99.29	105.83
13	A	808	CLA	C4A-NA-C1A	-4.79	104.55	106.71
13	B	823	CLA	C4A-NA-C1A	-4.78	104.56	106.71
13	A	815	CLA	C2C-C1C-NC	4.77	114.44	109.97
13	A	810	CLA	CHD-C1D-ND	-4.77	120.07	124.45
13	B	829	CLA	C2C-C1C-NC	4.76	114.43	109.97
13	A	842	CLA	C3D-C2D-C1D	-4.76	99.33	105.83
13	B	804	CLA	O2D-CGD-CBD	4.76	119.73	111.27
13	A	827	CLA	C2C-C1C-NC	4.75	114.42	109.97
13	A	835	CLA	C3D-C2D-C1D	-4.74	99.36	105.83
13	A	807	CLA	C3D-C2D-C1D	-4.74	99.36	105.83
13	B	810	CLA	C3D-C2D-C1D	-4.73	99.37	105.83
13	B	811	CLA	CHD-C4C-C3C	-4.73	117.89	124.84
13	B	828	CLA	C3D-C2D-C1D	-4.73	99.38	105.83
13	A	840	CLA	C4A-NA-C1A	-4.73	104.58	106.71
13	A	805	CLA	C2C-C1C-NC	4.73	114.40	109.97
13	A	807	CLA	CAA-C2A-C3A	-4.73	99.83	112.78
13	A	833	CLA	C3D-C2D-C1D	-4.73	99.38	105.83
13	A	818	CLA	O2D-CGD-CBD	4.73	119.67	111.27
13	A	837	CLA	C4A-NA-C1A	-4.72	104.58	106.71
13	A	807	CLA	C2C-C1C-NC	4.72	114.39	109.97
13	A	823	CLA	C3D-C2D-C1D	-4.72	99.39	105.83
13	B	822	CLA	C4A-NA-C1A	-4.72	104.59	106.71
13	B	803	CLA	C3D-C2D-C1D	-4.71	99.40	105.83
13	B	821	CLA	C3D-C2D-C1D	-4.70	99.41	105.83
13	B	826	CLA	CHD-C4C-C3C	-4.70	117.93	124.84
13	L	204	CLA	C3D-C2D-C1D	-4.69	99.43	105.83
13	B	816	CLA	C3D-C2D-C1D	-4.68	99.44	105.83
13	A	831	CLA	C3D-C2D-C1D	-4.68	99.44	105.83
13	A	812	CLA	C4A-NA-C1A	-4.68	104.60	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	813	CLA	C3D-C2D-C1D	-4.67	99.45	105.83
13	B	803	CLA	CMD-C2D-C1D	4.67	132.95	124.71
13	A	838	CLA	C3D-C2D-C1D	-4.67	99.46	105.83
13	A	829	CLA	C2C-C1C-NC	4.67	114.34	109.97
13	B	824	CLA	O2D-CGD-CBD	4.66	119.55	111.27
13	A	839	CLA	C3D-C2D-C1D	-4.66	99.47	105.83
13	B	802	CLA	C3C-C4C-NC	4.66	115.80	110.57
13	B	824	CLA	C3D-C2D-C1D	-4.65	99.48	105.83
13	A	826	CLA	C2C-C1C-NC	4.65	114.33	109.97
13	B	827	CLA	O2D-CGD-CBD	4.65	119.53	111.27
13	A	814	CLA	C3D-C2D-C1D	-4.64	99.49	105.83
13	A	835	CLA	O2D-CGD-O1D	-4.63	114.79	123.84
13	J	101	CLA	C3D-C2D-C1D	-4.62	99.52	105.83
13	B	803	CLA	C3C-C4C-NC	4.62	115.76	110.57
13	A	821	CLA	C1C-C2C-C3C	-4.62	102.10	106.96
13	A	804	CLA	C2C-C1C-NC	4.62	114.30	109.97
13	A	841	CLA	C3D-C2D-C1D	-4.61	99.53	105.83
13	A	834	CLA	C3D-C2D-C1D	-4.60	99.55	105.83
13	A	815	CLA	C3D-C2D-C1D	-4.60	99.55	105.83
13	A	819	CLA	O2D-CGD-CBD	4.59	119.43	111.27
13	B	815	CLA	C3D-C2D-C1D	-4.58	99.58	105.83
13	B	804	CLA	C1D-CHD-C4C	-4.58	116.18	126.06
12	A	801	CL0	CMD-C2D-C1D	4.58	132.78	124.71
13	A	836	CLA	C4A-NA-C1A	-4.58	104.65	106.71
13	A	803	CLA	CMD-C2D-C1D	4.58	132.78	124.71
13	A	837	CLA	C3D-C2D-C1D	-4.57	99.60	105.83
13	A	812	CLA	C3D-C2D-C1D	-4.56	99.60	105.83
13	B	805	CLA	C3D-C2D-C1D	-4.56	99.60	105.83
13	A	818	CLA	C1D-CHD-C4C	-4.56	116.22	126.06
13	A	827	CLA	C3D-C2D-C1D	-4.56	99.61	105.83
13	B	818	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
13	A	821	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
13	A	825	CLA	CHD-C4C-C3C	-4.54	118.17	124.84
13	F	203	CLA	C3D-C2D-C1D	-4.54	99.63	105.83
13	A	828	CLA	C2C-C1C-NC	4.54	114.22	109.97
13	B	817	CLA	O2D-CGD-CBD	4.54	119.33	111.27
13	L	203	CLA	C3D-C4D-ND	4.52	117.55	110.24
13	A	817	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
13	B	821	CLA	C3C-C4C-NC	4.52	115.64	110.57
13	A	826	CLA	C3C-C4C-NC	4.51	115.63	110.57
13	B	822	CLA	CHD-C1D-ND	-4.51	120.31	124.45
13	A	830	CLA	C3C-C4C-NC	4.50	115.62	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	825	CLA	C3D-C4D-ND	4.50	117.52	110.24
13	A	822	CLA	C4A-NA-C1A	-4.50	104.69	106.71
13	A	808	CLA	O2D-CGD-CBD	4.49	119.25	111.27
13	A	809	CLA	C4A-NA-C1A	-4.49	104.69	106.71
13	B	807	CLA	C4A-NA-C1A	-4.49	104.69	106.71
12	A	801	CL0	CAA-C2A-C3A	-4.49	100.49	112.78
13	A	806	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
13	B	819	CLA	CAA-C2A-C3A	-4.48	100.52	112.78
13	A	816	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
13	A	840	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
13	A	815	CLA	C4A-NA-C1A	-4.47	104.70	106.71
13	A	825	CLA	C3D-C2D-C1D	-4.46	99.75	105.83
13	K	203	CLA	C4A-NA-C1A	-4.46	104.70	106.71
13	B	801	CLA	C3D-C2D-C1D	-4.45	99.76	105.83
13	A	826	CLA	CAC-C3C-C4C	4.44	130.57	124.81
13	A	827	CLA	CAA-C2A-C3A	-4.44	100.62	112.78
13	K	201	CLA	C3D-C2D-C1D	-4.44	99.77	105.83
13	A	826	CLA	C3D-C2D-C1D	-4.43	99.78	105.83
13	B	810	CLA	C4A-NA-C1A	-4.43	104.71	106.71
13	B	806	CLA	C3D-C2D-C1D	-4.43	99.79	105.83
13	B	827	CLA	C3D-C2D-C1D	-4.42	99.79	105.83
13	A	829	CLA	C4A-NA-C1A	-4.42	104.72	106.71
13	A	802	CLA	C3D-C2D-C1D	-4.41	99.81	105.83
13	A	804	CLA	C3D-C2D-C1D	-4.41	99.81	105.83
13	B	832	CLA	C3D-C2D-C1D	-4.41	99.81	105.83
13	A	818	CLA	C3D-C2D-C1D	-4.41	99.81	105.83
13	B	826	CLA	C3D-C4D-ND	4.41	117.37	110.24
13	A	822	CLA	C3D-C2D-C1D	-4.40	99.82	105.83
13	A	843	CLA	C3D-C2D-C1D	-4.40	99.83	105.83
13	K	201	CLA	C3D-C4D-ND	4.39	117.34	110.24
13	A	819	CLA	C3D-C2D-C1D	-4.39	99.84	105.83
13	A	838	CLA	C3C-C4C-NC	4.38	115.49	110.57
13	B	812	CLA	C3D-C2D-C1D	-4.38	99.85	105.83
13	A	814	CLA	C3C-C4C-NC	4.38	115.49	110.57
13	A	821	CLA	CBC-CAC-C3C	-4.38	100.35	112.43
13	B	819	CLA	C3D-C4D-ND	4.38	117.32	110.24
13	A	813	CLA	C3D-C2D-C1D	-4.38	99.86	105.83
13	A	831	CLA	C1D-CHD-C4C	-4.38	116.62	126.06
13	B	832	CLA	O2D-CGD-CBD	4.37	119.04	111.27
13	B	806	CLA	C4A-NA-C1A	-4.37	104.74	106.71
13	A	830	CLA	O2D-CGD-CBD	4.37	119.03	111.27
13	A	818	CLA	C3D-C4D-ND	4.36	117.30	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	811	CLA	C1C-C2C-C3C	-4.36	102.38	106.96
13	B	833	CLA	C3D-C2D-C1D	-4.36	99.88	105.83
13	A	820	CLA	C3D-C2D-C1D	-4.35	99.89	105.83
13	A	831	CLA	C4A-NA-C1A	-4.35	104.75	106.71
13	A	819	CLA	C1D-CHD-C4C	-4.35	116.68	126.06
13	B	819	CLA	CMB-C2B-C3B	4.34	132.81	124.68
13	A	802	CLA	CAA-C2A-C3A	-4.34	100.88	112.78
13	B	802	CLA	CAA-C2A-C3A	-4.34	100.88	112.78
13	B	818	CLA	C4A-NA-C1A	-4.34	104.75	106.71
13	A	824	CLA	O2D-CGD-CBD	4.34	118.98	111.27
13	A	814	CLA	O2D-CGD-CBD	4.34	118.98	111.27
13	A	828	CLA	C4A-NA-C1A	-4.34	104.76	106.71
12	A	801	CL0	C1D-CHD-C4C	-4.34	116.70	126.06
13	B	801	CLA	O2D-CGD-CBD	4.33	118.97	111.27
13	A	832	CLA	C4A-NA-C1A	-4.33	104.76	106.71
13	A	839	CLA	C4A-NA-C1A	-4.33	104.76	106.71
13	A	817	CLA	C1C-C2C-C3C	-4.33	102.41	106.96
13	B	824	CLA	C3D-C4D-ND	4.32	117.22	110.24
13	A	822	CLA	C3C-C4C-NC	4.31	115.41	110.57
13	A	804	CLA	C1D-CHD-C4C	-4.31	116.76	126.06
13	K	203	CLA	C3D-C2D-C1D	-4.31	99.95	105.83
13	A	811	CLA	C4A-NA-C1A	-4.30	104.77	106.71
13	B	827	CLA	C4A-NA-C1A	-4.30	104.77	106.71
13	A	838	CLA	C4A-NA-C1A	-4.30	104.77	106.71
13	A	808	CLA	C3D-C2D-C1D	-4.30	99.97	105.83
13	B	830	CLA	C3D-C4D-ND	4.29	117.19	110.24
13	A	827	CLA	O2D-CGD-CBD	4.29	118.90	111.27
13	B	828	CLA	C3D-C4D-ND	4.29	117.18	110.24
13	A	802	CLA	C3C-C4C-NC	4.29	115.38	110.57
13	A	836	CLA	C3D-C4D-ND	4.29	117.18	110.24
13	A	828	CLA	C1D-CHD-C4C	-4.29	116.81	126.06
13	A	831	CLA	CMB-C2B-C3B	4.29	132.70	124.68
13	A	829	CLA	CMC-C2C-C1C	4.28	131.56	125.04
13	B	809	CLA	C3D-C2D-C1D	-4.28	99.99	105.83
13	B	832	CLA	C3D-C4D-ND	4.28	117.16	110.24
13	B	805	CLA	C3D-C4D-ND	4.28	117.15	110.24
13	A	811	CLA	C3D-C2D-C1D	-4.28	100.00	105.83
13	A	816	CLA	C3D-C4D-ND	4.27	117.15	110.24
13	A	824	CLA	C3D-C4D-ND	4.27	117.15	110.24
13	B	831	CLA	C4A-NA-C1A	-4.27	104.79	106.71
13	A	836	CLA	C3D-C2D-C1D	-4.27	100.01	105.83
13	A	823	CLA	C3D-C4D-ND	4.26	117.14	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	803	CLA	C3D-C2D-C1D	-4.26	100.01	105.83
13	A	825	CLA	CAC-C3C-C4C	4.26	130.34	124.81
13	B	821	CLA	C4A-NA-C1A	-4.25	104.79	106.71
13	B	811	CLA	C3D-C4D-ND	4.25	117.12	110.24
13	A	805	CLA	C4A-NA-C1A	-4.25	104.80	106.71
13	A	834	CLA	C4A-NA-C1A	-4.25	104.80	106.71
13	B	827	CLA	C3D-C4D-ND	4.24	117.10	110.24
13	A	812	CLA	C3D-C4D-ND	4.24	117.10	110.24
13	A	803	CLA	O2D-CGD-CBD	4.24	118.81	111.27
13	B	826	CLA	C4A-NA-C1A	-4.24	104.80	106.71
13	A	832	CLA	C3D-C4D-ND	4.24	117.10	110.24
13	A	806	CLA	C3D-C4D-ND	4.22	117.07	110.24
17	A	852	LHG	O4-P-O5	4.22	133.12	112.24
13	B	826	CLA	CAA-C2A-C3A	-4.22	101.22	112.78
13	B	802	CLA	C4A-NA-C1A	-4.22	104.81	106.71
13	L	204	CLA	C3D-C4D-ND	4.22	117.06	110.24
13	B	814	CLA	C1D-CHD-C4C	-4.21	116.97	126.06
13	B	809	CLA	C1D-CHD-C4C	-4.21	116.97	126.06
13	B	818	CLA	C1C-C2C-C3C	-4.21	102.53	106.96
13	A	818	CLA	C3C-C4C-NC	4.21	115.29	110.57
13	B	833	CLA	C4A-NA-C1A	-4.21	104.81	106.71
13	A	830	CLA	CHD-C1D-ND	-4.20	120.59	124.45
13	A	812	CLA	C1D-CHD-C4C	-4.20	117.00	126.06
13	A	813	CLA	C4A-NA-C1A	-4.20	104.82	106.71
13	A	817	CLA	C4A-NA-C1A	-4.20	104.82	106.71
13	B	833	CLA	C1C-C2C-C3C	-4.20	102.54	106.96
13	A	840	CLA	C1D-CHD-C4C	-4.20	117.00	126.06
13	A	803	CLA	C2C-C1C-NC	4.19	113.90	109.97
13	B	810	CLA	C3C-C4C-NC	4.19	115.27	110.57
13	A	831	CLA	C3C-C4C-NC	4.18	115.26	110.57
13	A	826	CLA	C1D-CHD-C4C	-4.18	117.04	126.06
13	B	803	CLA	C1D-CHD-C4C	-4.18	117.04	126.06
13	A	838	CLA	C1D-CHD-C4C	-4.18	117.04	126.06
13	A	837	CLA	O2D-CGD-O1D	-4.18	115.67	123.84
13	A	840	CLA	C1C-C2C-C3C	-4.18	102.56	106.96
13	B	808	CLA	C4A-NA-C1A	-4.18	104.83	106.71
13	L	202	CLA	C3D-C4D-ND	4.18	117.00	110.24
13	B	814	CLA	C3D-C2D-C1D	-4.17	100.14	105.83
13	A	824	CLA	C3D-C2D-C1D	-4.17	100.14	105.83
13	B	823	CLA	CHD-C4C-C3C	-4.17	118.71	124.84
17	A	853	LHG	O4-P-O5	4.17	132.85	112.24
13	A	833	CLA	C3D-C4D-ND	4.16	116.97	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	810	CLA	C1D-CHD-C4C	-4.16	117.09	126.06
13	B	807	CLA	C1D-CHD-C4C	-4.14	117.12	126.06
13	A	808	CLA	C1C-C2C-C3C	-4.14	102.61	106.96
13	A	822	CLA	C1D-CHD-C4C	-4.14	117.13	126.06
13	L	202	CLA	C4A-NA-C1A	-4.14	104.85	106.71
13	A	822	CLA	C3D-C4D-ND	4.14	116.93	110.24
13	A	836	CLA	C3C-C4C-NC	4.13	115.21	110.57
13	A	828	CLA	C3C-C4C-NC	4.13	115.21	110.57
13	B	801	CLA	CAC-C3C-C4C	4.13	130.17	124.81
13	B	814	CLA	C3D-C4D-ND	4.13	116.92	110.24
13	B	822	CLA	C3D-C4D-ND	4.13	116.92	110.24
13	B	831	CLA	C3D-C4D-ND	4.13	116.92	110.24
13	B	823	CLA	C3D-C4D-ND	4.13	116.91	110.24
13	B	820	CLA	C1D-CHD-C4C	-4.12	117.16	126.06
13	B	817	CLA	C3D-C4D-ND	4.12	116.91	110.24
13	A	824	CLA	C1C-C2C-C3C	-4.12	102.63	106.96
13	B	803	CLA	CAA-C2A-C3A	-4.11	101.52	112.78
13	B	801	CLA	C4A-NA-C1A	-4.11	104.86	106.71
13	B	810	CLA	O2D-CGD-CBD	4.11	118.57	111.27
13	A	844	CLA	C3C-C4C-NC	4.11	115.18	110.57
13	A	842	CLA	C3D-C4D-ND	4.10	116.88	110.24
13	B	812	CLA	C3D-C4D-ND	4.10	116.88	110.24
13	A	811	CLA	C3D-C4D-ND	4.10	116.88	110.24
13	B	808	CLA	C3D-C4D-ND	4.10	116.88	110.24
13	A	807	CLA	C1D-CHD-C4C	-4.10	117.22	126.06
13	A	809	CLA	C3D-C4D-ND	4.10	116.87	110.24
13	A	816	CLA	C4A-NA-C1A	-4.09	104.86	106.71
13	B	833	CLA	O2D-CGD-O1D	-4.09	115.83	123.84
13	B	815	CLA	C1D-CHD-C4C	-4.09	117.23	126.06
13	A	827	CLA	C3D-C4D-ND	4.09	116.85	110.24
13	B	820	CLA	C3C-C4C-NC	4.09	115.16	110.57
13	B	833	CLA	C3D-C4D-ND	4.09	116.85	110.24
13	B	801	CLA	C3C-C4C-NC	4.08	115.15	110.57
13	A	818	CLA	C4A-NA-C1A	-4.08	104.87	106.71
13	A	835	CLA	C1D-CHD-C4C	-4.07	117.27	126.06
13	A	817	CLA	C3D-C4D-ND	4.07	116.82	110.24
13	B	804	CLA	C3C-C4C-NC	4.07	115.13	110.57
13	A	806	CLA	C1D-CHD-C4C	-4.06	117.29	126.06
13	A	803	CLA	C4A-NA-C1A	-4.06	104.88	106.71
13	B	829	CLA	C3C-C4C-NC	4.06	115.13	110.57
13	B	813	CLA	C3D-C4D-ND	4.06	116.80	110.24
13	F	203	CLA	C3D-C4D-ND	4.06	116.80	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	802	CLA	C1C-C2C-C3C	-4.06	102.69	106.96
13	A	827	CLA	C1D-CHD-C4C	-4.05	117.31	126.06
13	A	804	CLA	C3C-C4C-NC	4.05	115.11	110.57
13	B	823	CLA	C1C-C2C-C3C	-4.04	102.70	106.96
13	L	202	CLA	C1D-CHD-C4C	-4.04	117.34	126.06
13	A	821	CLA	C1D-CHD-C4C	-4.04	117.34	126.06
13	B	822	CLA	C1D-CHD-C4C	-4.04	117.34	126.06
13	K	203	CLA	C1C-C2C-C3C	-4.03	102.72	106.96
13	A	844	CLA	C3D-C4D-ND	4.03	116.76	110.24
13	B	822	CLA	C3C-C4C-NC	4.03	115.09	110.57
13	A	841	CLA	C3C-C4C-NC	4.03	115.09	110.57
12	A	801	CL0	C3D-C4D-ND	4.03	116.76	110.24
13	B	806	CLA	C1D-CHD-C4C	-4.03	117.37	126.06
13	A	839	CLA	C1C-C2C-C3C	-4.02	102.73	106.96
13	A	829	CLA	C1D-CHD-C4C	-4.02	117.38	126.06
13	A	802	CLA	C1D-CHD-C4C	-4.02	117.39	126.06
13	B	823	CLA	C3B-C4B-NB	4.02	114.41	109.21
13	A	834	CLA	C1C-C2C-C3C	-4.02	102.73	106.96
13	B	828	CLA	C3C-C4C-NC	4.02	115.08	110.57
13	B	811	CLA	C1D-CHD-C4C	-4.02	117.39	126.06
13	B	818	CLA	C1D-CHD-C4C	-4.02	117.39	126.06
13	B	807	CLA	C1C-C2C-C3C	-4.01	102.74	106.96
13	A	842	CLA	C1C-C2C-C3C	-4.01	102.74	106.96
13	B	806	CLA	C1C-C2C-C3C	-4.01	102.74	106.96
13	A	843	CLA	C3D-C4D-ND	4.01	116.72	110.24
13	B	816	CLA	C3D-C4D-ND	4.01	116.72	110.24
13	A	840	CLA	C3D-C4D-ND	4.01	116.72	110.24
13	B	829	CLA	C1D-CHD-C4C	-4.00	117.42	126.06
13	B	808	CLA	C1C-C2C-C3C	-4.00	102.75	106.96
13	A	810	CLA	C3D-C4D-ND	4.00	116.71	110.24
13	A	820	CLA	C1C-C2C-C3C	-4.00	102.75	106.96
13	A	823	CLA	C1C-C2C-C3C	-4.00	102.75	106.96
13	A	805	CLA	C3C-C4C-NC	3.99	115.05	110.57
13	A	830	CLA	C1D-CHD-C4C	-3.99	117.44	126.06
13	A	839	CLA	C3D-C4D-ND	3.99	116.70	110.24
13	B	801	CLA	C1D-CHD-C4C	-3.99	117.45	126.06
13	B	805	CLA	C1D-CHD-C4C	-3.99	117.45	126.06
13	B	801	CLA	C3D-C4D-ND	3.99	116.69	110.24
13	K	203	CLA	C1D-CHD-C4C	-3.98	117.46	126.06
13	A	832	CLA	C1C-C2C-C3C	-3.98	102.77	106.96
13	A	834	CLA	C3D-C4D-ND	3.98	116.68	110.24
13	B	814	CLA	C3C-C4C-NC	3.98	115.04	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	819	CLA	C3D-C2D-C1D	-3.98	100.40	105.83
13	L	203	CLA	C4A-NA-C1A	-3.98	104.92	106.71
13	A	807	CLA	C3D-C4D-ND	3.98	116.67	110.24
13	A	824	CLA	C3B-C4B-NB	3.98	114.35	109.21
13	K	203	CLA	C3D-C4D-ND	3.98	116.67	110.24
13	B	809	CLA	C3C-C4C-NC	3.98	115.03	110.57
13	B	828	CLA	C1D-CHD-C4C	-3.98	117.48	126.06
13	A	810	CLA	C3D-C2D-C1D	-3.98	100.40	105.83
13	B	812	CLA	C1C-C2C-C3C	-3.97	102.78	106.96
13	A	808	CLA	C3D-C4D-ND	3.97	116.65	110.24
13	A	837	CLA	C3D-C4D-ND	3.96	116.65	110.24
13	B	816	CLA	C4A-NA-C1A	-3.96	104.92	106.71
13	A	844	CLA	C4A-NA-C1A	-3.96	104.93	106.71
13	A	836	CLA	C1D-CHD-C4C	-3.96	117.52	126.06
13	A	809	CLA	C3C-C4C-NC	3.96	115.01	110.57
13	A	815	CLA	C3D-C4D-ND	3.95	116.63	110.24
13	A	804	CLA	C3D-C4D-ND	3.95	116.63	110.24
13	A	835	CLA	C3D-C4D-ND	3.95	116.63	110.24
13	A	820	CLA	C3D-C4D-ND	3.95	116.63	110.24
13	A	810	CLA	C1C-C2C-C3C	-3.95	102.80	106.96
13	A	831	CLA	C3B-C4B-NB	3.95	114.32	109.21
13	B	809	CLA	C3D-C4D-ND	3.95	116.62	110.24
13	J	101	CLA	C4A-NA-C1A	-3.94	104.93	106.71
13	A	844	CLA	C1D-CHD-C4C	-3.94	117.56	126.06
13	B	811	CLA	CAC-C3C-C4C	3.94	129.92	124.81
13	B	802	CLA	C3D-C4D-ND	3.93	116.60	110.24
13	A	834	CLA	C3C-C4C-NC	3.93	114.98	110.57
13	A	814	CLA	C3D-C4D-ND	3.93	116.59	110.24
13	B	803	CLA	C3D-C4D-ND	3.93	116.59	110.24
13	B	816	CLA	C1C-C2C-C3C	-3.93	102.83	106.96
13	L	202	CLA	C1C-C2C-C3C	-3.93	102.83	106.96
13	A	825	CLA	C3D-C4D-ND	3.92	116.59	110.24
13	B	815	CLA	C3D-C4D-ND	3.92	116.58	110.24
13	B	821	CLA	C1D-CHD-C4C	-3.92	117.60	126.06
13	B	816	CLA	C3B-C4B-NB	3.92	114.28	109.21
13	A	821	CLA	C3D-C4D-ND	3.92	116.58	110.24
13	B	816	CLA	C1D-CHD-C4C	-3.92	117.61	126.06
13	A	817	CLA	C1D-CHD-C4C	-3.91	117.61	126.06
13	A	824	CLA	C3C-C4C-NC	3.91	114.96	110.57
13	A	841	CLA	C1D-CHD-C4C	-3.91	117.62	126.06
13	A	813	CLA	C3D-C4D-ND	3.91	116.56	110.24
13	B	826	CLA	C3D-C2D-C1D	-3.90	100.50	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	832	CLA	C1C-C2C-C3C	-3.90	102.85	106.96
13	A	829	CLA	CMB-C2B-C3B	3.90	131.98	124.68
13	A	840	CLA	C3C-C4C-NC	3.90	114.95	110.57
13	B	821	CLA	C3D-C4D-ND	3.90	116.55	110.24
13	A	841	CLA	C3D-C4D-ND	3.90	116.54	110.24
13	K	203	CLA	C3C-C4C-NC	3.89	114.94	110.57
13	B	816	CLA	C3C-C4C-NC	3.89	114.93	110.57
13	A	811	CLA	C1D-CHD-C4C	-3.89	117.67	126.06
13	A	830	CLA	C3D-C4D-ND	3.89	116.52	110.24
13	B	805	CLA	C3C-C4C-NC	3.89	114.93	110.57
13	A	813	CLA	C1C-C2C-C3C	-3.88	102.87	106.96
13	A	802	CLA	C3B-C4B-NB	3.88	114.23	109.21
13	A	831	CLA	C3D-C4D-ND	3.88	116.52	110.24
13	B	814	CLA	C4A-NA-C1A	-3.88	104.96	106.71
13	A	823	CLA	C4A-NA-C1A	-3.88	104.96	106.71
13	B	811	CLA	C3D-C2D-C1D	-3.88	100.54	105.83
13	B	802	CLA	O2D-CGD-CBD	3.88	118.16	111.27
13	B	831	CLA	C1C-C2C-C3C	-3.88	102.88	106.96
13	B	817	CLA	CAA-C2A-C3A	-3.87	102.17	112.78
13	B	806	CLA	C3D-C4D-ND	3.87	116.50	110.24
13	B	805	CLA	C4A-NA-C1A	-3.87	104.97	106.71
13	B	813	CLA	C3C-C4C-NC	3.87	114.91	110.57
13	A	834	CLA	O2D-CGD-CBD	3.86	118.13	111.27
13	A	802	CLA	C3D-C4D-ND	3.86	116.48	110.24
13	A	842	CLA	C3C-C4C-NC	3.86	114.90	110.57
13	A	817	CLA	C3B-C4B-NB	3.86	114.20	109.21
13	A	839	CLA	C1D-CHD-C4C	-3.86	117.73	126.06
13	A	832	CLA	C3D-C2D-C1D	-3.86	100.56	105.83
13	A	835	CLA	C3C-C4C-NC	3.86	114.90	110.57
13	A	837	CLA	C1D-CHD-C4C	-3.86	117.74	126.06
13	A	816	CLA	C1D-CHD-C4C	-3.86	117.74	126.06
13	A	815	CLA	C1D-CHD-C4C	-3.86	117.74	126.06
13	B	818	CLA	C3C-C4C-NC	3.85	114.89	110.57
13	A	833	CLA	C3C-C4C-NC	3.85	114.89	110.57
13	B	810	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
13	B	812	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
13	B	832	CLA	C1D-CHD-C4C	-3.85	117.76	126.06
13	B	817	CLA	C1D-CHD-C4C	-3.84	117.76	126.06
13	B	815	CLA	C3C-C4C-NC	3.84	114.88	110.57
13	A	833	CLA	C1D-CHD-C4C	-3.84	117.77	126.06
13	K	201	CLA	C1D-CHD-C4C	-3.84	117.77	126.06
13	A	834	CLA	CAA-C2A-C3A	-3.84	102.26	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	822	CLA	C3D-C2D-C1D	-3.84	100.59	105.83
13	A	814	CLA	C4C-C3C-C2C	-3.83	101.31	106.90
13	A	842	CLA	C1D-CHD-C4C	-3.82	117.81	126.06
12	A	801	CL0	C3D-C2D-C1D	-3.82	100.61	105.83
13	B	826	CLA	C1D-CHD-C4C	-3.82	117.82	126.06
13	A	839	CLA	O2D-CGD-O1D	-3.81	116.38	123.84
13	A	837	CLA	C1C-C2C-C3C	-3.81	102.95	106.96
13	A	817	CLA	O2D-CGD-CBD	3.81	118.04	111.27
13	B	810	CLA	C1C-C2C-C3C	-3.81	102.95	106.96
13	A	810	CLA	C3C-C4C-NC	3.81	114.84	110.57
13	B	809	CLA	O2A-CGA-CBA	3.81	123.85	111.91
13	A	803	CLA	C3D-C4D-ND	3.80	116.39	110.24
13	F	203	CLA	C1C-C2C-C3C	-3.80	102.96	106.96
13	A	805	CLA	C3D-C4D-ND	3.80	116.39	110.24
13	F	203	CLA	C1D-CHD-C4C	-3.80	117.86	126.06
13	L	204	CLA	CAA-C2A-C3A	-3.80	102.37	112.78
13	B	804	CLA	C3D-C4D-ND	3.80	116.38	110.24
13	B	822	CLA	C1C-C2C-C3C	-3.80	102.97	106.96
13	J	101	CLA	C3D-C4D-ND	3.80	116.38	110.24
13	B	831	CLA	C3C-C4C-NC	3.79	114.82	110.57
13	A	843	CLA	C4A-NA-C1A	-3.79	105.00	106.71
13	B	814	CLA	C1C-C2C-C3C	-3.79	102.98	106.96
13	J	101	CLA	C3C-C4C-NC	3.78	114.81	110.57
13	A	825	CLA	C3B-C4B-NB	3.78	114.10	109.21
13	A	810	CLA	C4A-NA-C1A	-3.78	105.01	106.71
13	B	811	CLA	C1C-C2C-C3C	-3.78	102.98	106.96
13	B	818	CLA	C3D-C4D-ND	3.77	116.34	110.24
13	A	843	CLA	C3C-C4C-NC	3.77	114.80	110.57
13	A	812	CLA	C3C-C4C-NC	3.77	114.80	110.57
13	A	803	CLA	CAA-C2A-C3A	-3.77	102.45	112.78
13	B	831	CLA	C1D-CHD-C4C	-3.77	117.92	126.06
13	A	834	CLA	C1D-CHD-C4C	-3.77	117.93	126.06
13	A	841	CLA	C1C-C2C-C3C	-3.76	103.00	106.96
13	A	826	CLA	C3D-C4D-ND	3.76	116.32	110.24
13	A	819	CLA	C3D-C4D-ND	3.76	116.32	110.24
13	B	828	CLA	C1C-C2C-C3C	-3.76	103.01	106.96
13	B	830	CLA	C1C-C2C-C3C	-3.76	103.01	106.96
13	B	823	CLA	O2D-CGD-O1D	-3.76	116.49	123.84
13	B	827	CLA	C1D-CHD-C4C	-3.76	117.95	126.06
13	B	807	CLA	O2D-CGD-CBD	3.76	117.94	111.27
13	A	813	CLA	C3C-C4C-NC	3.75	114.78	110.57
13	B	822	CLA	C3B-C4B-NB	3.75	114.06	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	825	CLA	C1C-C2C-C3C	-3.75	103.01	106.96
13	A	813	CLA	C1D-CHD-C4C	-3.75	117.97	126.06
13	A	824	CLA	C1D-CHD-C4C	-3.74	117.98	126.06
13	L	204	CLA	C1D-CHD-C4C	-3.74	117.99	126.06
13	A	810	CLA	C3B-C4B-NB	3.74	114.05	109.21
13	A	827	CLA	C1C-C2C-C3C	-3.74	103.03	106.96
13	B	804	CLA	C2C-C1C-NC	3.74	113.47	109.97
13	A	821	CLA	C3B-C4B-NB	3.74	114.04	109.21
13	B	808	CLA	C3C-C4C-NC	3.73	114.76	110.57
13	A	836	CLA	C3B-C4B-NB	3.73	114.03	109.21
13	B	829	CLA	C3D-C4D-ND	3.73	116.27	110.24
13	B	830	CLA	C4A-NA-C1A	-3.73	105.03	106.71
13	B	827	CLA	C1C-C2C-C3C	-3.72	103.04	106.96
13	L	203	CLA	C3C-C4C-NC	3.72	114.75	110.57
13	B	826	CLA	C3B-C4B-NB	3.72	114.02	109.21
13	B	804	CLA	C4C-C3C-C2C	-3.72	101.48	106.90
13	L	202	CLA	C3C-C4C-NC	3.71	114.73	110.57
13	A	825	CLA	C1D-CHD-C4C	-3.70	118.07	126.06
13	A	803	CLA	C3C-C4C-NC	3.70	114.72	110.57
13	A	836	CLA	C1C-C2C-C3C	-3.70	103.07	106.96
13	B	809	CLA	CAA-C2A-C3A	-3.70	102.65	112.78
13	A	831	CLA	C1C-C2C-C3C	-3.70	103.07	106.96
13	B	812	CLA	C3C-C4C-NC	3.70	114.72	110.57
13	B	833	CLA	C1D-CHD-C4C	-3.69	118.09	126.06
13	A	807	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
13	B	825	CLA	C3C-C4C-NC	3.69	114.71	110.57
13	A	825	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
13	B	807	CLA	C3C-C4C-NC	3.69	114.71	110.57
13	B	817	CLA	C3C-C4C-NC	3.69	114.71	110.57
13	A	843	CLA	C1D-CHD-C4C	-3.68	118.11	126.06
13	A	830	CLA	C3D-C2D-C1D	-3.68	100.81	105.83
13	B	823	CLA	CAC-C3C-C4C	3.68	129.59	124.81
13	A	820	CLA	CBA-CAA-C2A	3.68	124.73	113.86
13	A	823	CLA	C1D-CHD-C4C	-3.67	118.13	126.06
13	B	813	CLA	C1D-CHD-C4C	-3.67	118.13	126.06
13	A	818	CLA	C3B-C4B-NB	3.67	113.96	109.21
13	B	823	CLA	C1D-CHD-C4C	-3.67	118.14	126.06
13	L	204	CLA	C3C-C4C-NC	3.67	114.68	110.57
13	A	817	CLA	C3C-C4C-NC	3.66	114.68	110.57
13	A	806	CLA	C1C-C2C-C3C	-3.66	103.11	106.96
13	A	839	CLA	C3C-C4C-NC	3.66	114.68	110.57
13	A	820	CLA	C3B-C4B-NB	3.66	113.94	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	806	CLA	C3C-C4C-NC	3.65	114.67	110.57
13	J	101	CLA	C1D-CHD-C4C	-3.65	118.18	126.06
13	A	829	CLA	CAC-C3C-C4C	3.65	129.54	124.81
13	A	838	CLA	C1C-C2C-C3C	-3.65	103.12	106.96
13	A	826	CLA	CHD-C1D-ND	-3.64	121.11	124.45
13	B	808	CLA	C1D-CHD-C4C	-3.64	118.20	126.06
13	L	203	CLA	C1C-C2C-C3C	-3.64	103.13	106.96
13	B	807	CLA	C3D-C4D-ND	3.64	116.12	110.24
13	B	820	CLA	C3D-C4D-ND	3.64	116.12	110.24
13	B	819	CLA	C1D-CHD-C4C	-3.64	118.21	126.06
12	A	801	CL0	C4C-C3C-C2C	-3.64	101.60	106.90
13	A	808	CLA	C1D-CHD-C4C	-3.63	118.22	126.06
13	A	840	CLA	O2D-CGD-O1D	-3.63	116.74	123.84
16	L	205	BCR	C24-C23-C22	-3.63	120.75	126.23
13	B	810	CLA	C3D-C4D-ND	3.63	116.10	110.24
13	B	833	CLA	C3C-C4C-NC	3.62	114.63	110.57
16	L	206	BCR	C2-C1-C6	3.62	116.06	110.48
13	A	803	CLA	CHB-C4A-NA	3.62	129.51	124.51
13	A	819	CLA	C3C-C4C-NC	3.61	114.62	110.57
13	A	835	CLA	C3B-C4B-NB	3.61	113.88	109.21
13	B	815	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
13	A	823	CLA	O2D-CGD-O1D	-3.61	116.78	123.84
13	B	815	CLA	C3B-C4B-NB	3.61	113.87	109.21
13	A	828	CLA	C3D-C4D-ND	3.60	116.06	110.24
13	B	823	CLA	CHC-C1C-C2C	-3.60	116.77	126.72
13	B	802	CLA	C4-C3-C5	3.60	121.32	115.27
13	A	816	CLA	C1C-C2C-C3C	-3.59	103.18	106.96
13	A	835	CLA	C1C-C2C-C3C	-3.59	103.18	106.96
13	A	820	CLA	C1D-CHD-C4C	-3.59	118.31	126.06
13	A	807	CLA	CHD-C4C-NC	3.59	129.86	124.20
13	B	806	CLA	CHC-C1C-C2C	-3.59	116.79	126.72
13	A	838	CLA	C3D-C4D-ND	3.59	116.04	110.24
13	A	806	CLA	C4A-NA-C1A	-3.59	105.09	106.71
13	B	818	CLA	C3B-C4B-NB	3.58	113.84	109.21
13	A	837	CLA	C3C-C4C-NC	3.58	114.59	110.57
13	F	203	CLA	C3C-C4C-NC	3.58	114.58	110.57
13	B	824	CLA	C1C-C2C-C3C	-3.57	103.20	106.96
13	A	814	CLA	C1D-CHD-C4C	-3.57	118.35	126.06
17	A	853	LHG	O8-C23-C24	3.57	120.74	111.38
13	B	833	CLA	C3B-C4B-NB	3.57	113.82	109.21
13	A	823	CLA	C3C-C4C-NC	3.57	114.57	110.57
13	A	827	CLA	C3C-C4C-NC	3.56	114.57	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	811	CLA	C3C-C4C-NC	3.56	114.56	110.57
13	B	804	CLA	CAA-C2A-C3A	-3.56	103.03	112.78
13	A	807	CLA	C3C-C4C-NC	3.56	114.56	110.57
13	A	841	CLA	O2A-CGA-CBA	3.55	123.06	111.91
13	A	815	CLA	C1C-C2C-C3C	-3.55	103.22	106.96
13	A	818	CLA	C1C-C2C-C3C	-3.55	103.23	106.96
13	B	824	CLA	C1D-CHD-C4C	-3.55	118.41	126.06
13	A	820	CLA	CHC-C1C-C2C	-3.55	116.92	126.72
13	A	826	CLA	C4C-C3C-C2C	-3.54	101.73	106.90
13	B	814	CLA	C3B-C4B-NB	3.54	113.79	109.21
13	A	812	CLA	C1C-C2C-C3C	-3.53	103.24	106.96
13	A	809	CLA	C1D-CHD-C4C	-3.53	118.44	126.06
13	A	803	CLA	C1D-CHD-C4C	-3.53	118.44	126.06
13	B	833	CLA	CHC-C1C-C2C	-3.53	116.96	126.72
13	A	805	CLA	C1D-CHD-C4C	-3.53	118.44	126.06
13	A	811	CLA	C3B-C4B-NB	3.53	113.77	109.21
13	A	806	CLA	C3B-C4B-NB	3.53	113.77	109.21
16	B	836	BCR	C3-C4-C5	-3.52	107.78	114.08
13	B	819	CLA	C1C-C2C-C3C	-3.52	103.25	106.96
13	A	802	CLA	CMB-C2B-C3B	3.52	131.27	124.68
13	B	832	CLA	C3C-C4C-NC	3.52	114.52	110.57
13	B	802	CLA	C3B-C4B-NB	3.52	113.76	109.21
13	A	832	CLA	C1D-CHD-C4C	-3.52	118.46	126.06
13	A	821	CLA	CHC-C1C-C2C	-3.52	116.98	126.72
13	B	810	CLA	CAA-C2A-C3A	-3.52	103.14	112.78
16	A	848	BCR	C3-C4-C5	-3.51	107.81	114.08
13	B	812	CLA	C3B-C4B-NB	3.51	113.75	109.21
13	A	830	CLA	C1C-C2C-C3C	-3.51	103.27	106.96
13	A	815	CLA	C3C-C4C-NC	3.50	114.50	110.57
16	L	206	BCR	C24-C23-C22	-3.50	120.94	126.23
13	B	803	CLA	O2D-CGD-O1D	-3.50	117.00	123.84
13	B	825	CLA	O2A-CGA-CBA	3.49	122.87	111.91
13	A	833	CLA	C1C-C2C-C3C	-3.49	103.28	106.96
13	A	804	CLA	C4C-C3C-C2C	-3.49	101.81	106.90
13	B	827	CLA	C3C-C4C-NC	3.49	114.48	110.57
13	A	817	CLA	CHC-C1C-C2C	-3.48	117.08	126.72
13	A	835	CLA	C4A-NA-C1A	-3.48	105.14	106.71
13	A	833	CLA	CAA-C2A-C3A	-3.48	103.25	112.78
13	B	803	CLA	C3B-C4B-NB	3.48	113.70	109.21
13	B	824	CLA	C3C-C4C-NC	3.47	114.47	110.57
16	B	836	BCR	C15-C16-C17	-3.47	116.37	123.47
13	A	812	CLA	CAA-C2A-C3A	-3.47	103.28	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	811	CLA	C3C-C4C-NC	3.47	114.46	110.57
13	B	826	CLA	C1C-C2C-C3C	-3.47	103.31	106.96
13	B	801	CLA	C3B-C4B-NB	3.46	113.68	109.21
13	A	842	CLA	C4-C3-C5	3.46	119.93	115.98
13	B	803	CLA	O2A-CGA-CBA	3.45	122.75	111.91
13	B	823	CLA	C3D-C2D-C1D	-3.45	101.12	105.83
13	B	803	CLA	CMB-C2B-C3B	3.45	131.14	124.68
13	B	826	CLA	CAC-C3C-C4C	3.45	129.29	124.81
13	B	830	CLA	C1D-CHD-C4C	-3.45	118.61	126.06
13	B	802	CLA	CMA-C3A-C2A	-3.45	99.92	113.83
13	A	838	CLA	C3B-C4B-NB	3.45	113.67	109.21
13	A	829	CLA	O2A-CGA-CBA	3.44	122.71	111.91
13	J	101	CLA	C1C-C2C-C3C	-3.44	103.34	106.96
13	B	806	CLA	C3B-C4B-NB	3.44	113.66	109.21
13	B	815	CLA	C4A-NA-C1A	-3.44	105.16	106.71
13	B	803	CLA	C1C-C2C-C3C	-3.43	103.35	106.96
13	B	801	CLA	C1C-C2C-C3C	-3.43	103.35	106.96
13	A	812	CLA	C3B-C4B-NB	3.43	113.64	109.21
13	A	832	CLA	C3C-C4C-NC	3.42	114.41	110.57
13	A	829	CLA	C3D-C4D-ND	3.42	115.77	110.24
13	B	802	CLA	C1C-C2C-C3C	-3.42	103.36	106.96
13	B	817	CLA	C1C-C2C-C3C	-3.42	103.36	106.96
13	A	806	CLA	O2D-CGD-O1D	-3.42	117.16	123.84
13	B	832	CLA	C3B-C4B-NB	3.41	113.62	109.21
13	A	838	CLA	CMB-C2B-C3B	3.41	131.06	124.68
13	A	832	CLA	CAC-C3C-C4C	3.41	129.23	124.81
13	K	201	CLA	CAA-C2A-C3A	-3.41	103.45	112.78
12	A	801	CL0	C1C-C2C-C3C	-3.41	103.37	106.96
13	A	843	CLA	CAC-C3C-C4C	3.41	129.23	124.81
13	K	201	CLA	C3C-C4C-NC	3.40	114.39	110.57
13	B	813	CLA	C4C-C3C-C2C	-3.40	101.94	106.90
13	A	819	CLA	CHC-C1C-C2C	-3.40	117.31	126.72
13	A	820	CLA	CMB-C2B-C3B	3.40	131.04	124.68
14	A	845	PQN	C14-C13-C15	3.40	120.98	115.27
13	K	201	CLA	C1C-C2C-C3C	-3.40	103.39	106.96
13	L	204	CLA	C3B-C4B-NB	3.39	113.60	109.21
13	B	805	CLA	C1C-C2C-C3C	-3.39	103.39	106.96
13	J	101	CLA	CAC-C3C-C4C	3.39	129.21	124.81
13	A	813	CLA	C4-C3-C5	3.39	120.97	115.27
13	A	808	CLA	C3B-C4B-NB	3.38	113.59	109.21
13	A	816	CLA	C3C-C4C-NC	3.38	114.36	110.57
13	A	844	CLA	C4-C3-C5	3.37	120.94	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	822	CLA	O2A-CGA-CBA	3.37	122.48	111.91
13	B	818	CLA	CBA-CAA-C2A	3.37	123.81	113.86
13	A	842	CLA	CAA-C2A-C3A	-3.37	103.56	112.78
13	B	809	CLA	C1C-C2C-C3C	-3.37	103.42	106.96
13	A	844	CLA	C3B-C4B-NB	3.37	113.56	109.21
13	A	816	CLA	C3B-C4B-NB	3.36	113.56	109.21
13	A	843	CLA	C1C-C2C-C3C	-3.36	103.42	106.96
13	B	819	CLA	C3C-C4C-NC	3.36	114.34	110.57
13	B	818	CLA	CHC-C1C-C2C	-3.36	117.43	126.72
13	A	808	CLA	CAC-C3C-C4C	3.36	129.16	124.81
13	A	829	CLA	C4C-C3C-C2C	-3.35	102.01	106.90
13	B	823	CLA	C3C-C4C-NC	3.35	114.33	110.57
13	L	203	CLA	C1D-CHD-C4C	-3.35	118.83	126.06
13	B	828	CLA	C3B-C4B-NB	3.34	113.53	109.21
13	B	831	CLA	C3B-C4B-NB	3.34	113.53	109.21
13	B	802	CLA	CHD-C4C-NC	3.34	129.47	124.20
13	A	822	CLA	C1C-C2C-C3C	-3.34	103.44	106.96
13	B	803	CLA	C4C-C3C-C2C	-3.34	102.03	106.90
13	A	828	CLA	C4C-C3C-C2C	-3.34	102.03	106.90
13	A	844	CLA	C4C-C3C-C2C	-3.34	102.03	106.90
13	A	823	CLA	CMB-C2B-C3B	3.34	130.92	124.68
13	A	819	CLA	C1C-C2C-C3C	-3.34	103.45	106.96
13	A	808	CLA	CHC-C1C-C2C	-3.34	117.49	126.72
13	B	824	CLA	C3B-C4B-NB	3.33	113.52	109.21
13	A	819	CLA	CAC-C3C-C4C	3.33	129.13	124.81
13	A	841	CLA	CAC-C3C-C4C	3.33	129.13	124.81
13	K	201	CLA	CAC-C3C-C4C	3.33	129.13	124.81
13	B	807	CLA	CHD-C4C-NC	3.33	129.45	124.20
13	B	809	CLA	C3B-C4B-NB	3.33	113.51	109.21
13	A	821	CLA	C3C-C4C-NC	3.33	114.30	110.57
13	B	823	CLA	CMB-C2B-C3B	3.32	130.90	124.68
13	A	806	CLA	CHB-C4A-NA	3.32	129.11	124.51
13	K	203	CLA	C3B-C4B-NB	3.32	113.50	109.21
13	B	821	CLA	C1C-C2C-C3C	-3.32	103.47	106.96
13	F	203	CLA	C3B-C4B-NB	3.32	113.50	109.21
12	A	801	CL0	C3B-C4B-NB	3.32	113.50	109.21
13	B	821	CLA	CMC-C2C-C1C	3.32	130.09	125.04
13	A	841	CLA	O2D-CGD-CBD	3.32	117.16	111.27
13	B	827	CLA	C3B-C4B-NB	3.31	113.50	109.21
13	A	844	CLA	C1C-C2C-C3C	-3.31	103.47	106.96
13	A	804	CLA	CAC-C3C-C4C	3.31	129.11	124.81
13	B	809	CLA	C4A-NA-C1A	-3.31	105.22	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	A	850	BCR	C28-C27-C26	-3.31	108.17	114.08
13	A	811	CLA	CHC-C1C-C2C	-3.30	117.59	126.72
13	A	813	CLA	CAC-C3C-C4C	3.30	129.09	124.81
13	A	831	CLA	CHC-C1C-C2C	-3.30	117.60	126.72
13	A	813	CLA	C3B-C4B-NB	3.30	113.47	109.21
13	B	820	CLA	C1C-C2C-C3C	-3.29	103.49	106.96
13	B	823	CLA	CMD-C2D-C3D	-3.29	120.04	127.61
13	A	835	CLA	CAC-C3C-C4C	3.29	129.08	124.81
13	B	832	CLA	CMB-C2B-C3B	3.29	130.84	124.68
16	A	848	BCR	C2-C1-C6	3.29	115.55	110.48
13	A	825	CLA	CHC-C1C-C2C	-3.29	117.62	126.72
13	A	843	CLA	O2A-CGA-CBA	3.29	122.23	111.91
13	A	809	CLA	C1C-C2C-C3C	-3.29	103.50	106.96
13	J	101	CLA	CHC-C1C-C2C	-3.29	117.63	126.72
13	A	806	CLA	CHD-C4C-NC	3.28	129.38	124.20
13	A	805	CLA	C1C-C2C-C3C	-3.28	103.50	106.96
13	A	804	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
13	B	826	CLA	O1D-CGD-CBD	-3.28	117.77	124.48
13	A	828	CLA	CHD-C4C-NC	3.28	129.37	124.20
13	A	812	CLA	CHC-C1C-C2C	-3.28	117.66	126.72
13	A	832	CLA	O2A-CGA-CBA	3.28	122.19	111.91
13	A	832	CLA	CHC-C1C-C2C	-3.28	117.66	126.72
13	A	820	CLA	O2D-CGD-O1D	-3.28	117.43	123.84
13	B	830	CLA	C3C-C4C-NC	3.27	114.24	110.57
13	B	811	CLA	C3B-C4B-NB	3.27	113.44	109.21
13	B	826	CLA	C3C-C4C-NC	3.27	114.23	110.57
13	A	822	CLA	C4C-C3C-C2C	-3.27	102.14	106.90
13	A	816	CLA	CHC-C1C-C2C	-3.26	117.69	126.72
13	A	840	CLA	O2A-C1-C2	3.26	117.20	108.64
13	A	838	CLA	O2D-CGD-O1D	-3.25	117.47	123.84
13	A	837	CLA	C3B-C4B-NB	3.25	113.42	109.21
13	B	808	CLA	C3B-C4B-NB	3.25	113.42	109.21
13	B	825	CLA	C1D-CHD-C4C	-3.25	119.04	126.06
13	B	815	CLA	O2D-CGD-O1D	-3.25	117.48	123.84
13	B	804	CLA	CHB-C4A-NA	3.25	129.00	124.51
13	A	830	CLA	C4C-C3C-C2C	-3.25	102.17	106.90
13	B	812	CLA	CHC-C1C-C2C	-3.25	117.74	126.72
16	B	835	BCR	C15-C16-C17	-3.24	116.83	123.47
13	A	831	CLA	C4C-C3C-C2C	-3.24	102.17	106.90
13	A	813	CLA	CHC-C1C-C2C	-3.24	117.76	126.72
13	J	101	CLA	C3B-C4B-NB	3.23	113.39	109.21
13	A	802	CLA	CHC-C1C-C2C	-3.23	117.79	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	819	CLA	C3B-C4B-NB	3.23	113.38	109.21
13	B	810	CLA	C3B-C4B-NB	3.23	113.38	109.21
13	A	844	CLA	CHC-C1C-C2C	-3.23	117.79	126.72
13	K	203	CLA	O2D-CGD-O1D	-3.23	117.53	123.84
16	J	103	BCR	C2-C1-C6	3.23	115.45	110.48
13	B	802	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
13	A	824	CLA	C4-C3-C5	3.22	119.67	115.98
13	A	819	CLA	C4C-C3C-C2C	-3.22	102.20	106.90
13	B	826	CLA	CHC-C1C-C2C	-3.22	117.81	126.72
13	A	826	CLA	C3B-C4B-NB	3.22	113.37	109.21
13	B	829	CLA	C1C-C2C-C3C	-3.22	103.57	106.96
16	A	849	BCR	C11-C10-C9	-3.21	122.73	127.31
13	A	809	CLA	C4C-C3C-C2C	-3.21	102.22	106.90
13	A	820	CLA	C3C-C4C-NC	3.21	114.17	110.57
13	B	809	CLA	O2D-CGD-O1D	-3.20	117.57	123.84
13	A	816	CLA	O2D-CGD-O1D	-3.20	117.58	123.84
13	A	835	CLA	CHC-C1C-C2C	-3.20	117.87	126.72
13	L	202	CLA	C3B-C4B-NB	3.20	113.34	109.21
13	B	824	CLA	CMB-C2B-C3B	3.19	130.66	124.68
13	B	804	CLA	CMB-C2B-C3B	3.19	130.65	124.68
13	B	815	CLA	CHC-C1C-C2C	-3.19	117.89	126.72
13	L	204	CLA	C1C-C2C-C3C	-3.19	103.60	106.96
13	B	824	CLA	CAC-C3C-C4C	3.19	128.95	124.81
13	A	837	CLA	CMB-C2B-C3B	3.19	130.64	124.68
13	B	803	CLA	C4-C3-C5	3.18	120.63	115.27
13	A	832	CLA	C3B-C4B-NB	3.18	113.33	109.21
13	L	203	CLA	C3B-C4B-NB	3.18	113.32	109.21
13	B	811	CLA	O2A-CGA-CBA	3.18	121.89	111.91
13	A	835	CLA	CAA-C2A-C3A	-3.18	104.08	112.78
13	A	809	CLA	O2A-CGA-CBA	3.17	121.86	111.91
13	A	808	CLA	C3C-C4C-NC	3.17	114.13	110.57
13	A	818	CLA	C4C-C3C-C2C	-3.17	102.28	106.90
12	A	801	CL0	CMA-C3A-C2A	-3.16	101.07	113.83
13	A	807	CLA	O2A-CGA-CBA	3.16	121.83	111.91
13	B	829	CLA	C4C-C3C-C2C	-3.16	102.29	106.90
13	A	842	CLA	O2A-CGA-CBA	3.16	121.83	111.91
16	F	201	BCR	C15-C16-C17	-3.16	117.00	123.47
13	A	834	CLA	C3B-C4B-NB	3.16	113.30	109.21
13	L	204	CLA	CAC-C3C-C4C	3.16	128.91	124.81
13	A	805	CLA	CMB-C2B-C3B	3.16	130.59	124.68
13	A	840	CLA	C3B-C4B-NB	3.16	113.30	109.21
13	F	203	CLA	CHC-C1C-C2C	-3.16	117.99	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	B	836	BCR	C2-C1-C6	3.16	115.34	110.48
13	A	818	CLA	CHC-C1C-C2C	-3.16	117.99	126.72
13	A	808	CLA	C4-C3-C5	3.15	119.59	115.98
13	B	823	CLA	C4-C3-C5	3.15	120.57	115.27
13	A	826	CLA	C4A-NA-C1A	-3.15	105.29	106.71
13	A	834	CLA	O2A-CGA-CBA	3.15	121.80	111.91
13	B	813	CLA	CAA-C2A-C3A	-3.15	104.15	112.78
13	K	203	CLA	CHC-C1C-C2C	-3.15	118.01	126.72
13	B	807	CLA	CHC-C1C-C2C	-3.15	118.01	126.72
13	B	821	CLA	CAC-C3C-C4C	3.15	128.90	124.81
13	A	825	CLA	C3C-C4C-NC	3.15	114.10	110.57
13	A	827	CLA	CHD-C4C-NC	3.15	129.16	124.20
13	B	809	CLA	C4C-C3C-C2C	-3.15	102.31	106.90
13	B	807	CLA	CAA-C2A-C3A	-3.14	104.17	112.78
13	B	811	CLA	CHC-C1C-C2C	-3.14	118.02	126.72
13	B	815	CLA	CAC-C3C-C4C	3.14	128.89	124.81
13	B	828	CLA	CAC-C3C-C4C	3.14	128.88	124.81
13	A	803	CLA	CMB-C2B-C1B	-3.14	123.64	128.46
13	B	827	CLA	CAC-C3C-C4C	3.14	128.88	124.81
13	A	804	CLA	C3B-C4B-NB	3.14	113.27	109.21
13	A	842	CLA	C3B-C4B-NB	3.14	113.27	109.21
13	A	806	CLA	C3C-C4C-NC	3.14	114.09	110.57
13	A	810	CLA	CAC-C3C-C4C	3.14	128.88	124.81
13	A	812	CLA	C4C-C3C-C2C	-3.14	102.33	106.90
13	A	811	CLA	CAA-C2A-C3A	-3.13	104.20	112.78
12	A	801	CL0	CHD-C1D-ND	-3.13	121.58	124.45
13	B	821	CLA	CAA-C2A-C3A	-3.13	104.20	112.78
13	B	808	CLA	CHC-C1C-C2C	-3.13	118.06	126.72
13	B	820	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
13	B	821	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
13	B	804	CLA	CAC-C3C-C4C	3.13	128.87	124.81
13	B	822	CLA	CHC-C1C-C2C	-3.12	118.08	126.72
13	A	809	CLA	CAC-C3C-C4C	3.12	128.85	124.81
13	B	809	CLA	CHC-C1C-C2C	-3.11	118.11	126.72
13	A	823	CLA	C3B-C4B-NB	3.11	113.24	109.21
13	B	801	CLA	C4-C3-C5	3.11	120.50	115.27
13	B	828	CLA	CMB-C2B-C3B	3.11	130.50	124.68
13	B	805	CLA	C3B-C4B-NB	3.11	113.23	109.21
13	A	818	CLA	C4-C3-C5	3.11	120.50	115.27
13	L	202	CLA	CHD-C4C-NC	3.11	129.10	124.20
16	A	851	BCR	C28-C27-C26	-3.11	108.53	114.08
13	B	807	CLA	C3B-C4B-NB	3.10	113.22	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	827	CLA	O2A-CGA-CBA	3.10	121.64	111.91
13	A	806	CLA	CHC-C1C-C2C	-3.10	118.15	126.72
13	A	832	CLA	O2D-CGD-O1D	-3.10	117.78	123.84
13	B	807	CLA	C11-C12-C13	-3.10	105.91	115.92
12	A	801	CL0	CAC-C3C-C4C	3.10	128.83	124.81
13	A	815	CLA	CHD-C4C-NC	3.09	129.08	124.20
13	B	813	CLA	C3B-C4B-NB	3.09	113.21	109.21
13	B	816	CLA	CHC-C1C-C2C	-3.09	118.17	126.72
13	B	805	CLA	CHD-C4C-NC	3.09	129.07	124.20
13	A	814	CLA	C3B-C4B-NB	3.09	113.21	109.21
13	B	830	CLA	CHD-C4C-NC	3.09	129.07	124.20
13	A	831	CLA	CAC-C3C-C4C	3.09	128.81	124.81
13	A	841	CLA	C3B-C4B-NB	3.08	113.19	109.21
13	B	801	CLA	C4C-C3C-C2C	-3.08	102.41	106.90
13	A	834	CLA	CHC-C1C-C2C	-3.08	118.21	126.72
13	B	830	CLA	C3B-C4B-NB	3.08	113.19	109.21
13	B	810	CLA	CHC-C1C-C2C	-3.08	118.22	126.72
13	A	819	CLA	CMB-C2B-C3B	3.07	130.43	124.68
13	J	101	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
13	A	803	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
13	A	839	CLA	CHC-C1C-C2C	-3.07	118.23	126.72
13	A	840	CLA	CHD-C4C-NC	3.07	129.04	124.20
13	L	204	CLA	C4C-C3C-C2C	-3.07	102.43	106.90
13	A	841	CLA	CHC-C1C-C2C	-3.07	118.24	126.72
13	A	812	CLA	CAC-C3C-C4C	3.07	128.79	124.81
13	B	802	CLA	CBC-CAC-C3C	-3.06	103.99	112.43
13	A	816	CLA	CAC-C3C-C4C	3.06	128.78	124.81
13	A	843	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
13	A	827	CLA	CBC-CAC-C3C	-3.06	103.99	112.43
13	L	203	CLA	CAA-C2A-C3A	-3.06	104.40	112.78
13	A	836	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
13	B	801	CLA	CHC-C1C-C2C	-3.06	118.26	126.72
13	A	821	CLA	C4A-NA-C1A	-3.06	105.33	106.71
13	A	839	CLA	C3B-C4B-NB	3.06	113.16	109.21
13	B	806	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
13	A	802	CLA	CAC-C3C-C4C	3.05	128.77	124.81
13	B	808	CLA	CAA-C2A-C3A	-3.05	104.43	112.78
13	A	837	CLA	CHC-C1C-C2C	-3.05	118.29	126.72
13	A	843	CLA	C3B-C4B-NB	3.05	113.15	109.21
12	A	801	CL0	O2D-CGD-O1D	-3.04	117.89	123.84
13	A	810	CLA	CHC-C1C-C2C	-3.04	118.30	126.72
13	A	838	CLA	C4C-C3C-C2C	-3.04	102.46	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	835	CLA	CHB-C4A-NA	3.04	128.72	124.51
13	B	829	CLA	CHD-C4C-NC	3.04	129.00	124.20
13	B	809	CLA	O2A-CGA-O1A	-3.04	115.92	123.59
12	A	801	CL0	O2A-CGA-CBA	3.04	121.45	111.91
13	A	822	CLA	CAC-C3C-C4C	3.04	128.75	124.81
13	A	814	CLA	CHC-C1C-C2C	-3.04	118.32	126.72
13	A	825	CLA	O2D-CGD-O1D	-3.03	117.91	123.84
13	B	822	CLA	O2A-CGA-O1A	-3.03	115.94	123.59
13	B	828	CLA	CHC-C1C-C2C	-3.03	118.35	126.72
13	A	811	CLA	CMA-C3A-C2A	-3.03	101.62	113.83
13	A	833	CLA	C4C-C3C-C2C	-3.02	102.50	106.90
13	A	802	CLA	C4C-C3C-C2C	-3.02	102.50	106.90
13	A	803	CLA	C1C-C2C-C3C	-3.02	103.78	106.96
13	B	805	CLA	CAC-C3C-C4C	3.02	128.72	124.81
13	B	820	CLA	O2A-CGA-CBA	3.02	121.37	111.91
18	B	838	LMG	O6-C1-O1	-3.02	102.83	109.97
13	A	843	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
13	B	815	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
13	A	833	CLA	CHC-C1C-C2C	-3.01	118.39	126.72
13	K	201	CLA	CHC-C1C-C2C	-3.01	118.39	126.72
13	A	805	CLA	C4C-C3C-C2C	-3.00	102.52	106.90
13	B	832	CLA	CHC-C1C-C2C	-3.00	118.41	126.72
13	A	822	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
13	B	811	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
13	A	802	CLA	CHA-C1A-NA	-3.00	119.53	126.40
13	A	841	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
13	B	805	CLA	CAA-C2A-C3A	-3.00	104.57	112.78
13	B	802	CLA	CMA-C3A-C4A	-3.00	103.71	111.77
13	A	824	CLA	CMB-C2B-C3B	3.00	130.29	124.68
13	B	828	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
13	A	802	CLA	CBC-CAC-C3C	-3.00	104.17	112.43
13	B	817	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
13	K	201	CLA	C3B-C4B-NB	3.00	113.08	109.21
13	A	836	CLA	CHC-C1C-C2C	-3.00	118.44	126.72
13	A	843	CLA	CHC-C1C-C2C	-3.00	118.44	126.72
16	B	835	BCR	C15-C14-C13	-2.99	123.04	127.31
13	B	828	CLA	O2D-CGD-O1D	-2.99	117.98	123.84
13	B	826	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
13	B	831	CLA	CHC-C1C-C2C	-2.99	118.44	126.72
13	A	836	CLA	CAA-C2A-C3A	-2.99	104.58	112.78
12	A	801	CL0	CGD-CBD-CAD	-2.98	101.07	110.73
13	A	835	CLA	C4C-C3C-C2C	-2.98	102.55	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	824	CLA	CHC-C1C-C2C	-2.98	118.48	126.72
13	A	821	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
13	A	824	CLA	CAC-C3C-C4C	2.98	128.67	124.81
13	F	203	CLA	CAC-C3C-C4C	2.98	128.67	124.81
13	B	830	CLA	CHC-C1C-C2C	-2.98	118.49	126.72
13	B	827	CLA	CHC-C1C-C2C	-2.98	118.49	126.72
13	A	842	CLA	CMC-C2C-C1C	2.97	129.57	125.04
16	A	850	BCR	C24-C23-C22	-2.97	121.75	126.23
13	A	828	CLA	C1C-C2C-C3C	-2.97	103.83	106.96
13	A	836	CLA	CAC-C3C-C4C	2.97	128.66	124.81
13	A	803	CLA	C3B-C4B-NB	2.97	113.05	109.21
12	A	801	CL0	C1-C2-C3	-2.97	120.91	126.04
13	A	813	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
13	L	203	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
13	B	826	CLA	O2A-CGA-CBA	2.97	121.22	111.91
13	L	203	CLA	CHC-C1C-C2C	-2.97	118.52	126.72
13	A	837	CLA	CAC-C3C-C4C	2.96	128.66	124.81
16	M	101	BCR	C24-C23-C22	-2.96	121.76	126.23
13	B	817	CLA	CHC-C1C-C2C	-2.96	118.53	126.72
13	A	819	CLA	C3B-C4B-NB	2.96	113.04	109.21
13	A	802	CLA	O2A-CGA-CBA	2.96	121.19	111.91
13	B	805	CLA	C4C-C3C-C2C	-2.96	102.58	106.90
13	A	840	CLA	O2A-CGA-CBA	2.96	121.19	111.91
13	A	823	CLA	CHD-C4C-NC	2.95	128.86	124.20
13	B	809	CLA	CHB-C4A-NA	2.95	128.59	124.51
16	A	847	BCR	C24-C23-C22	-2.95	121.78	126.23
13	L	204	CLA	CHC-C1C-C2C	-2.95	118.56	126.72
13	B	822	CLA	C4C-C3C-C2C	-2.95	102.60	106.90
13	A	840	CLA	CHC-C1C-C2C	-2.95	118.57	126.72
13	B	820	CLA	CAC-C3C-C4C	2.95	128.63	124.81
13	B	821	CLA	C3B-C4B-NB	2.95	113.02	109.21
13	A	808	CLA	O2A-CGA-CBA	2.95	121.15	111.91
13	B	812	CLA	CAC-C3C-C4C	2.94	128.63	124.81
13	A	829	CLA	C1C-C2C-C3C	-2.94	103.86	106.96
14	B	834	PQN	C2M-C2-C3	-2.94	119.60	124.40
13	A	828	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
13	B	820	CLA	CHD-C4C-NC	2.94	128.84	124.20
13	A	824	CLA	CHC-C1C-C2C	-2.94	118.60	126.72
13	B	808	CLA	C1-C2-C3	-2.94	120.97	126.04
13	A	833	CLA	CHD-C4C-NC	2.93	128.83	124.20
13	B	828	CLA	CAA-C2A-C3A	-2.93	104.75	112.78
13	B	820	CLA	C3B-C4B-NB	2.93	113.00	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	805	CLA	CAC-C3C-C4C	2.93	128.61	124.81
13	A	825	CLA	O2A-CGA-CBA	2.93	121.11	111.91
13	A	816	CLA	C4C-C3C-C2C	-2.93	102.63	106.90
13	B	806	CLA	CHB-C4A-NA	2.93	128.56	124.51
16	B	836	BCR	C15-C14-C13	-2.93	123.13	127.31
13	B	806	CLA	O2A-CGA-CBA	2.93	121.10	111.91
13	B	814	CLA	CHC-C1C-C2C	-2.93	118.62	126.72
13	B	808	CLA	CBC-CAC-C3C	-2.93	104.36	112.43
13	A	830	CLA	O2A-CGA-CBA	2.92	121.09	111.91
13	B	826	CLA	C4C-C3C-C2C	-2.92	102.64	106.90
13	A	809	CLA	CHC-C1C-C2C	-2.92	118.63	126.72
13	B	813	CLA	CHC-C1C-C2C	-2.92	118.63	126.72
13	B	801	CLA	CMC-C2C-C1C	2.92	129.49	125.04
13	A	834	CLA	CMA-C3A-C4A	-2.92	103.92	111.77
13	B	814	CLA	CHB-C4A-NA	2.92	128.55	124.51
13	A	804	CLA	CHC-C1C-C2C	-2.92	118.65	126.72
13	B	816	CLA	CHD-C4C-NC	2.92	128.80	124.20
13	A	834	CLA	C1-C2-C3	-2.92	121.00	126.04
13	B	822	CLA	CAC-C3C-C4C	2.92	128.59	124.81
13	B	814	CLA	CHD-C4C-NC	2.92	128.80	124.20
13	B	819	CLA	CHC-C1C-C2C	-2.91	118.66	126.72
13	A	833	CLA	C3B-C4B-NB	2.91	112.98	109.21
13	A	844	CLA	CHD-C4C-NC	2.91	128.79	124.20
13	A	811	CLA	CBC-CAC-C3C	-2.91	104.40	112.43
13	B	806	CLA	C4C-C3C-C2C	-2.91	102.65	106.90
12	A	801	CL0	CMA-C3A-C4A	-2.91	103.96	111.77
13	A	828	CLA	CAA-C2A-C3A	-2.91	104.82	112.78
13	A	831	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
13	B	825	CLA	CAA-C2A-C3A	-2.90	104.84	112.78
13	A	829	CLA	CHD-C4C-NC	2.90	128.77	124.20
13	B	824	CLA	C4C-C3C-C2C	-2.90	102.67	106.90
13	A	806	CLA	CMB-C2B-C3B	2.90	130.10	124.68
13	A	829	CLA	C1-C2-C3	-2.90	121.03	126.04
13	L	202	CLA	CHC-C1C-C2C	-2.90	118.71	126.72
16	B	835	BCR	C27-C26-C25	2.90	126.94	122.73
13	B	817	CLA	CHD-C4C-NC	2.90	128.77	124.20
13	B	821	CLA	CHD-C4C-NC	2.90	128.77	124.20
13	A	809	CLA	C3B-C4B-NB	2.90	112.95	109.21
13	L	202	CLA	CMB-C2B-C3B	2.89	130.09	124.68
13	B	805	CLA	CHB-C4A-NA	2.89	128.51	124.51
13	A	805	CLA	CHB-C4A-NA	2.89	128.51	124.51
13	B	809	CLA	CBA-CAA-C2A	2.89	122.39	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	814	CLA	C4C-C3C-C2C	-2.89	102.69	106.90
13	B	823	CLA	C4C-C3C-C2C	-2.89	102.69	106.90
13	B	833	CLA	C4C-C3C-C2C	-2.89	102.69	106.90
13	A	833	CLA	O2A-CGA-CBA	2.89	120.97	111.91
13	B	805	CLA	CHC-C1C-C2C	-2.88	118.74	126.72
13	B	823	CLA	O2A-CGA-CBA	2.88	120.96	111.91
13	B	831	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
13	A	829	CLA	C3B-C4B-NB	2.88	112.93	109.21
13	J	101	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
13	A	814	CLA	CAA-C2A-C3A	-2.88	104.89	112.78
13	A	812	CLA	O2A-CGA-CBA	2.88	120.94	111.91
13	B	830	CLA	C1-C2-C3	-2.88	121.07	126.04
13	A	818	CLA	CHD-C4C-NC	2.88	128.73	124.20
13	A	815	CLA	C3B-C4B-NB	2.88	112.93	109.21
14	B	834	PQN	C14-C13-C15	2.87	120.11	115.27
13	B	811	CLA	C4C-C3C-C2C	-2.87	102.71	106.90
13	A	807	CLA	CMC-C2C-C1C	2.87	129.41	125.04
13	B	820	CLA	C4-C3-C5	2.87	120.10	115.27
13	A	824	CLA	C4C-C3C-C2C	-2.87	102.72	106.90
13	A	826	CLA	CMC-C2C-C1C	2.87	129.41	125.04
13	A	821	CLA	CHD-C4C-NC	2.87	128.72	124.20
13	B	831	CLA	CHD-C4C-NC	2.87	128.72	124.20
13	A	809	CLA	CMB-C2B-C3B	2.87	130.04	124.68
13	A	838	CLA	CHD-C4C-NC	2.86	128.72	124.20
13	A	805	CLA	CHD-C4C-NC	2.86	128.71	124.20
16	I	101	BCR	C29-C30-C25	2.86	114.88	110.48
13	B	818	CLA	CHD-C4C-NC	2.86	128.71	124.20
13	A	830	CLA	C3B-C4B-NB	2.86	112.90	109.21
13	K	201	CLA	C4C-C3C-C2C	-2.86	102.73	106.90
13	A	832	CLA	C1-C2-C3	-2.85	122.13	126.75
16	J	104	BCR	C31-C1-C6	2.85	114.93	110.30
13	B	817	CLA	CMB-C2B-C3B	2.85	130.02	124.68
13	B	809	CLA	CHD-C4C-NC	2.85	128.70	124.20
16	A	848	BCR	C40-C30-C25	2.85	114.92	110.30
13	A	830	CLA	CAC-C3C-C4C	2.85	128.51	124.81
13	A	836	CLA	O2A-CGA-CBA	2.85	120.84	111.91
13	L	204	CLA	C4-C3-C5	2.85	120.06	115.27
13	A	841	CLA	CMB-C2B-C3B	2.85	130.00	124.68
13	B	827	CLA	C4C-C3C-C2C	-2.85	102.75	106.90
13	A	831	CLA	CAA-C2A-C3A	-2.84	104.99	112.78
13	A	834	CLA	CHB-C4A-NA	2.84	128.44	124.51
16	L	205	BCR	C15-C14-C13	-2.84	123.25	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	813	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
16	J	103	BCR	C27-C26-C25	2.84	126.85	122.73
13	A	810	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
13	B	830	CLA	O2A-CGA-CBA	2.84	120.81	111.91
13	B	825	CLA	CHD-C4C-NC	2.84	128.67	124.20
13	B	816	CLA	CAC-C3C-C4C	2.84	128.49	124.81
13	B	821	CLA	O2A-CGA-CBA	2.84	120.81	111.91
13	B	833	CLA	C1-C2-C3	-2.83	121.14	126.04
13	B	815	CLA	CHB-C4A-NA	2.83	128.43	124.51
13	K	203	CLA	C4C-C3C-C2C	-2.83	102.77	106.90
13	B	802	CLA	CHC-C1C-C2C	-2.83	118.88	126.72
13	A	804	CLA	CHD-C4C-NC	2.83	128.67	124.20
13	B	825	CLA	C1-C2-C3	-2.83	121.14	126.04
13	B	804	CLA	C1-C2-C3	-2.83	121.15	126.04
13	A	828	CLA	O2A-CGA-CBA	2.83	120.79	111.91
13	A	842	CLA	CHD-C4C-NC	2.83	128.66	124.20
13	B	831	CLA	C4C-C3C-C2C	-2.83	102.77	106.90
16	M	101	BCR	C15-C16-C17	-2.83	117.68	123.47
13	B	803	CLA	C1-C2-C3	-2.83	121.15	126.04
13	A	842	CLA	CHC-C1C-C2C	-2.83	118.90	126.72
13	B	821	CLA	CMB-C2B-C3B	2.83	129.97	124.68
13	B	817	CLA	C3B-C4B-NB	2.83	112.86	109.21
13	A	815	CLA	CHC-C1C-C2C	-2.83	118.90	126.72
13	B	831	CLA	O2A-CGA-CBA	2.83	120.78	111.91
16	A	851	BCR	C24-C23-C22	-2.82	121.97	126.23
13	A	810	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
13	K	203	CLA	CBC-CAC-C3C	-2.82	104.65	112.43
13	A	820	CLA	CAC-C3C-C4C	2.82	128.47	124.81
13	L	202	CLA	C4C-C3C-C2C	-2.82	102.78	106.90
13	B	818	CLA	O2A-CGA-CBA	2.82	120.76	111.91
13	B	819	CLA	C4C-C3C-C2C	-2.82	102.79	106.90
13	A	806	CLA	CAC-C3C-C4C	2.82	128.47	124.81
13	B	805	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
13	A	830	CLA	CHC-C1C-C2C	-2.81	118.94	126.72
13	K	203	CLA	CAC-C3C-C4C	2.81	128.46	124.81
16	A	850	BCR	C15-C16-C17	-2.81	117.71	123.47
16	J	103	BCR	C3-C4-C5	-2.81	109.05	114.08
13	A	824	CLA	O2A-CGA-CBA	2.81	120.72	111.91
13	A	822	CLA	CHC-C1C-C2C	-2.81	118.95	126.72
13	A	834	CLA	CHD-C4C-NC	2.81	128.63	124.20
13	A	822	CLA	C3B-C4B-NB	2.81	112.84	109.21
13	A	823	CLA	CHC-C1C-C2C	-2.81	118.96	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	810	CLA	C4C-C3C-C2C	-2.80	102.81	106.90
16	A	848	BCR	C11-C10-C9	-2.80	123.31	127.31
13	B	814	CLA	CAA-C2A-C3A	-2.80	105.10	112.78
18	B	838	LMG	O1-C7-C8	-2.80	104.14	110.90
13	A	808	CLA	C1-C2-C3	-2.80	121.20	126.04
13	A	842	CLA	CBC-CAC-C3C	-2.80	104.71	112.43
16	K	202	BCR	C38-C26-C27	-2.80	108.24	113.62
13	B	825	CLA	CHC-C1C-C2C	-2.80	118.98	126.72
13	A	804	CLA	CAA-C2A-C3A	-2.80	105.11	112.78
13	B	825	CLA	C4C-C3C-C2C	-2.80	102.82	106.90
13	A	807	CLA	CHC-C1C-C2C	-2.80	118.98	126.72
13	B	814	CLA	CMB-C2B-C3B	2.80	129.91	124.68
13	A	818	CLA	O2A-CGA-CBA	2.79	120.68	111.91
13	B	823	CLA	CMA-C3A-C2A	-2.79	102.56	113.83
13	A	837	CLA	CHD-C4C-NC	2.79	128.60	124.20
13	B	804	CLA	O2A-CGA-CBA	2.79	120.66	111.91
13	B	818	CLA	C1-C2-C3	-2.79	121.22	126.04
13	A	834	CLA	C4C-C3C-C2C	-2.79	102.83	106.90
13	A	810	CLA	CBC-CAC-C3C	-2.79	104.75	112.43
13	A	815	CLA	CAC-C3C-C4C	2.79	128.42	124.81
13	A	835	CLA	C1-C2-C3	-2.78	121.23	126.04
13	F	203	CLA	C4C-C3C-C2C	-2.78	102.84	106.90
13	B	802	CLA	CMC-C2C-C1C	2.78	129.28	125.04
13	A	828	CLA	CHC-C1C-C2C	-2.78	119.02	126.72
13	B	812	CLA	C4C-C3C-C2C	-2.78	102.84	106.90
13	A	805	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
13	A	809	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
13	A	805	CLA	C3B-C4B-NB	2.78	112.80	109.21
13	K	201	CLA	CHD-C4C-NC	2.78	128.58	124.20
13	B	813	CLA	C1C-C2C-C3C	-2.78	104.04	106.96
16	A	850	BCR	C15-C14-C13	-2.78	123.35	127.31
13	A	839	CLA	CHD-C4C-NC	2.77	128.57	124.20
13	A	811	CLA	CAC-C3C-C4C	2.77	128.41	124.81
13	B	813	CLA	C4-C3-C5	2.77	119.93	115.27
13	A	822	CLA	CHD-C4C-NC	2.77	128.57	124.20
13	B	818	CLA	CAC-C3C-C4C	2.77	128.40	124.81
13	B	816	CLA	C4C-C3C-C2C	-2.77	102.86	106.90
13	A	831	CLA	C1-C2-C3	-2.77	121.26	126.04
13	A	814	CLA	C1C-C2C-C3C	-2.76	104.05	106.96
13	A	828	CLA	C3B-C4B-NB	2.76	112.78	109.21
13	B	820	CLA	CHC-C1C-C2C	-2.76	119.09	126.72
13	A	809	CLA	CHB-C4A-NA	2.76	128.32	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	801	CL0	CMC-C2C-C1C	2.76	129.24	125.04
16	I	101	BCR	C30-C25-C26	-2.76	118.73	122.61
13	A	805	CLA	CHC-C1C-C2C	-2.76	119.10	126.72
12	A	801	CL0	CHC-C1C-C2C	-2.76	119.10	126.72
13	B	813	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
13	B	825	CLA	C3B-C4B-NB	2.75	112.77	109.21
13	B	803	CLA	CAC-C3C-C4C	2.75	128.38	124.81
13	A	840	CLA	C4C-C3C-C2C	-2.75	102.89	106.90
13	B	812	CLA	CAA-C2A-C3A	-2.75	105.26	112.78
13	A	822	CLA	CAA-C2A-C3A	-2.74	105.27	112.78
13	A	820	CLA	O2A-CGA-CBA	2.74	120.50	111.91
13	A	833	CLA	C4-C3-C5	2.74	119.88	115.27
16	A	848	BCR	C38-C26-C27	-2.73	108.36	113.62
13	B	804	CLA	CHD-C4C-NC	2.73	128.51	124.20
16	K	202	BCR	C27-C26-C25	2.73	126.70	122.73
13	A	840	CLA	CAA-C2A-C3A	-2.73	105.30	112.78
13	A	807	CLA	C3B-C4B-NB	2.73	112.74	109.21
13	B	807	CLA	CMB-C2B-C3B	2.73	129.78	124.68
13	A	842	CLA	CMB-C2B-C3B	2.73	129.78	124.68
13	B	804	CLA	CHC-C1C-C2C	-2.73	119.18	126.72
13	A	839	CLA	O2A-CGA-CBA	2.72	120.46	111.91
13	B	819	CLA	CAC-C3C-C4C	2.72	128.34	124.81
13	A	820	CLA	C2A-C3A-C4A	-2.72	97.47	101.87
13	A	839	CLA	C4C-C3C-C2C	-2.72	102.93	106.90
13	A	835	CLA	O2A-CGA-CBA	2.72	120.44	111.91
13	A	827	CLA	C4-C3-C5	2.72	119.84	115.27
13	A	826	CLA	CHC-C1C-C2C	-2.72	119.20	126.72
13	A	837	CLA	C4C-C3C-C2C	-2.72	102.94	106.90
13	A	827	CLA	C3B-C4B-NB	2.71	112.72	109.21
13	B	807	CLA	C4C-C3C-C2C	-2.71	102.94	106.90
13	B	829	CLA	CAC-C3C-C4C	2.71	128.33	124.81
13	L	204	CLA	CHD-C4C-NC	2.71	128.47	124.20
13	A	824	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
13	A	815	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
13	A	817	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
13	B	808	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
13	A	817	CLA	CAC-C3C-C4C	2.71	128.32	124.81
16	L	206	BCR	C15-C16-C17	-2.71	117.93	123.47
13	B	817	CLA	CAC-C3C-C4C	2.71	128.32	124.81
12	A	801	CL0	CHD-C4C-NC	2.71	128.47	124.20
16	A	848	BCR	C27-C26-C25	2.70	126.66	122.73
13	A	835	CLA	CHD-C4C-NC	2.70	128.46	124.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	820	CLA	CAA-C2A-C3A	-2.70	105.38	112.78
13	A	839	CLA	CAC-C3C-C4C	2.70	128.31	124.81
13	B	822	CLA	CHD-C4C-NC	2.70	128.46	124.20
13	A	803	CLA	CHD-C4C-NC	2.70	128.45	124.20
13	A	841	CLA	CAA-C2A-C3A	-2.70	105.39	112.78
13	A	819	CLA	CHB-C4A-NA	2.70	128.24	124.51
13	K	203	CLA	CHD-C4C-NC	2.69	128.45	124.20
13	A	822	CLA	C4-C3-C5	2.69	119.80	115.27
13	B	803	CLA	CHC-C1C-C2C	-2.69	119.27	126.72
13	B	830	CLA	CAA-C2A-C3A	-2.69	105.40	112.78
13	A	827	CLA	CHC-C1C-C2C	-2.69	119.27	126.72
13	A	816	CLA	CHB-C4A-NA	2.69	128.24	124.51
13	A	843	CLA	CHB-C4A-NA	2.69	128.24	124.51
13	B	832	CLA	C4C-C3C-C2C	-2.69	102.97	106.90
13	A	841	CLA	C1-C2-C3	-2.69	121.39	126.04
16	I	101	BCR	C28-C27-C26	-2.69	109.28	114.08
13	A	838	CLA	O2A-CGA-CBA	2.69	120.34	111.91
16	A	851	BCR	C1-C6-C5	-2.69	118.83	122.61
13	A	838	CLA	CHC-C1C-C2C	-2.69	119.29	126.72
13	B	832	CLA	CAC-C3C-C4C	2.69	128.30	124.81
13	B	821	CLA	CHC-C1C-C2C	-2.69	119.29	126.72
16	J	103	BCR	C11-C10-C9	-2.68	123.48	127.31
13	B	813	CLA	O2A-CGA-CBA	2.68	120.33	111.91
13	B	808	CLA	CAC-C3C-C4C	2.68	128.29	124.81
13	A	806	CLA	CMC-C2C-C1C	2.68	129.12	125.04
13	B	830	CLA	CHB-C4A-NA	2.68	128.22	124.51
13	A	815	CLA	CMC-C2C-C1C	2.68	129.12	125.04
13	A	820	CLA	C4C-C3C-C2C	-2.68	102.99	106.90
13	A	842	CLA	CAC-C3C-C4C	2.68	128.29	124.81
13	A	818	CLA	CHB-C4A-NA	2.68	128.22	124.51
13	A	811	CLA	CHD-C4C-NC	2.68	128.42	124.20
13	L	204	CLA	CMB-C2B-C3B	2.68	129.69	124.68
13	A	816	CLA	CHD-C4C-NC	2.68	128.42	124.20
13	B	810	CLA	CMB-C2B-C3B	2.68	129.68	124.68
13	B	827	CLA	CHB-C4A-NA	2.67	128.21	124.51
13	B	803	CLA	CHA-C1A-NA	-2.67	120.28	126.40
13	B	810	CLA	CHD-C4C-NC	2.67	128.41	124.20
13	B	824	CLA	CAA-CBA-CGA	-2.67	105.45	113.25
13	B	831	CLA	CAA-C2A-C3A	-2.67	105.47	112.78
13	A	806	CLA	C4-C3-C5	2.67	119.76	115.27
13	B	801	CLA	O2A-CGA-CBA	2.66	120.26	111.91
13	A	833	CLA	O2D-CGD-O1D	-2.66	118.64	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	830	CLA	CHD-C4C-NC	2.66	128.39	124.20
13	A	805	CLA	CMA-C3A-C4A	-2.66	104.63	111.77
13	B	824	CLA	CHD-C4C-NC	2.65	128.38	124.20
13	F	203	CLA	CAA-C2A-C3A	-2.65	105.51	112.78
16	J	104	BCR	C7-C8-C9	-2.65	122.23	126.23
13	A	842	CLA	C4C-C3C-C2C	-2.65	103.03	106.90
13	B	829	CLA	CHC-C1C-C2C	-2.65	119.39	126.72
13	B	819	CLA	CHD-C4C-NC	2.65	128.38	124.20
13	A	803	CLA	CHC-C1C-C2C	-2.65	119.40	126.72
13	B	802	CLA	C1-C2-C3	-2.65	121.46	126.04
13	A	819	CLA	O2A-CGA-CBA	2.65	120.22	111.91
13	B	808	CLA	O2A-CGA-CBA	2.65	120.21	111.91
13	A	825	CLA	C4C-C3C-C2C	-2.64	103.04	106.90
16	B	835	BCR	C11-C10-C9	-2.64	123.54	127.31
13	B	825	CLA	O2D-CGD-O1D	-2.64	118.68	123.84
13	B	833	CLA	O2A-CGA-CBA	2.64	120.18	111.91
13	J	101	CLA	CMB-C2B-C3B	2.64	129.61	124.68
13	L	203	CLA	CBC-CAC-C3C	-2.63	105.17	112.43
13	A	807	CLA	C4C-C3C-C2C	-2.63	103.06	106.90
13	A	833	CLA	CAC-C3C-C4C	2.63	128.23	124.81
13	A	818	CLA	CAC-C3C-C4C	2.63	128.22	124.81
16	A	849	BCR	C7-C8-C9	-2.63	122.26	126.23
13	A	821	CLA	CHB-C4A-NA	2.63	128.15	124.51
16	L	201	BCR	C24-C23-C22	-2.63	122.26	126.23
13	B	811	CLA	CMD-C2D-C3D	-2.63	121.57	127.61
13	A	827	CLA	C4C-C3C-C2C	-2.63	103.07	106.90
13	B	817	CLA	O2A-CGA-CBA	2.63	120.15	111.91
13	A	813	CLA	CHD-C4C-NC	2.63	128.34	124.20
13	A	823	CLA	CMC-C2C-C1C	2.63	129.04	125.04
13	A	832	CLA	C4C-C3C-C2C	-2.63	103.07	106.90
13	A	815	CLA	CHB-C4A-NA	2.62	128.14	124.51
16	K	202	BCR	C15-C14-C13	-2.62	123.57	127.31
13	A	822	CLA	CMC-C2C-C1C	2.62	129.03	125.04
13	A	807	CLA	C11-C12-C13	-2.62	107.44	115.92
13	B	805	CLA	O2A-CGA-CBA	2.62	120.14	111.91
13	A	826	CLA	O2D-CGD-O1D	-2.62	118.71	123.84
13	A	844	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
13	A	812	CLA	C4-C3-C5	2.62	119.67	115.27
13	B	814	CLA	C1-C2-C3	-2.62	121.52	126.04
13	A	841	CLA	CED-O2D-CGD	2.62	121.86	115.94
13	A	825	CLA	CMB-C2B-C3B	2.62	129.57	124.68
13	B	832	CLA	CBC-CAC-C3C	-2.61	105.22	112.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	J	103	BCR	C7-C8-C9	-2.61	122.28	126.23
13	B	818	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
13	B	816	CLA	CMB-C2B-C3B	2.61	129.57	124.68
13	B	810	CLA	O2A-CGA-CBA	2.61	120.11	111.91
13	B	811	CLA	CAA-C2A-C3A	-2.61	105.63	112.78
13	A	839	CLA	CBC-CAC-C3C	-2.61	105.23	112.43
13	B	804	CLA	C3B-C4B-NB	2.61	112.58	109.21
13	A	811	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
13	B	806	CLA	C4-C3-C5	2.61	119.66	115.27
13	A	843	CLA	C4-C3-C5	2.61	119.65	115.27
13	B	818	CLA	C4C-C3C-C2C	-2.60	103.10	106.90
13	A	821	CLA	C4-C3-C5	2.60	119.65	115.27
13	B	805	CLA	CMC-C2C-C1C	2.60	129.00	125.04
13	B	809	CLA	CAC-C3C-C4C	2.60	128.18	124.81
13	B	807	CLA	C4-C3-C5	2.60	119.64	115.27
17	A	852	LHG	C11-C10-C9	-2.60	101.24	114.42
16	J	102	BCR	C11-C10-C9	-2.60	123.61	127.31
13	B	812	CLA	CHD-C4C-NC	2.60	128.29	124.20
13	B	832	CLA	CHD-C4C-NC	2.60	128.29	124.20
16	A	848	BCR	C16-C15-C14	-2.59	118.16	123.47
13	B	816	CLA	CHB-C4A-NA	2.59	128.09	124.51
13	A	829	CLA	O1D-CGD-CBD	-2.59	119.19	124.48
13	B	803	CLA	CHD-C4C-NC	2.59	128.28	124.20
13	A	842	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
13	B	814	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
13	A	839	CLA	CMB-C2B-C3B	2.59	129.52	124.68
13	B	809	CLA	CMB-C2B-C3B	2.58	129.50	124.68
13	A	807	CLA	CMB-C2B-C3B	2.58	129.50	124.68
16	B	836	BCR	C27-C26-C25	2.58	126.47	122.73
13	A	804	CLA	C1C-C2C-C3C	-2.58	104.25	106.96
13	F	203	CLA	CHD-C4C-NC	2.58	128.26	124.20
13	B	820	CLA	CMC-C2C-C1C	2.57	128.96	125.04
13	A	834	CLA	C4-C3-C5	2.57	119.60	115.27
13	B	830	CLA	C4C-C3C-C2C	-2.57	103.15	106.90
13	A	806	CLA	C1-C2-C3	-2.57	121.60	126.04
13	L	203	CLA	CHD-C4C-NC	2.57	128.25	124.20
13	J	101	CLA	CHB-C4A-NA	2.57	128.06	124.51
13	A	817	CLA	O2A-CGA-CBA	2.57	119.97	111.91
13	L	204	CLA	O2A-CGA-CBA	2.57	119.97	111.91
13	A	828	CLA	C4-C3-C5	2.57	119.59	115.27
13	B	824	CLA	O2A-CGA-CBA	2.56	119.96	111.91
13	A	823	CLA	O2A-CGA-CBA	2.56	119.96	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	J	102	BCR	C15-C16-C17	-2.56	118.22	123.47
13	A	808	CLA	CHD-C4C-NC	2.56	128.24	124.20
13	A	811	CLA	C4C-C3C-C2C	-2.56	103.17	106.90
16	A	847	BCR	C15-C16-C17	-2.56	118.23	123.47
13	B	810	CLA	CAC-C3C-C4C	2.56	128.13	124.81
13	K	201	CLA	CBC-CAC-C3C	-2.56	105.38	112.43
13	B	806	CLA	CHD-C4C-NC	2.56	128.23	124.20
13	B	811	CLA	CMB-C2B-C3B	2.56	129.46	124.68
13	A	807	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
13	B	813	CLA	CMC-C2C-C1C	2.55	128.93	125.04
13	A	808	CLA	CHB-C4A-NA	2.55	128.04	124.51
13	B	818	CLA	CMB-C2B-C3B	2.55	129.45	124.68
12	A	801	CL0	CBC-CAC-C3C	-2.55	105.40	112.43
13	B	820	CLA	CAA-C2A-C3A	-2.55	105.79	112.78
13	A	832	CLA	CMB-C2B-C3B	2.55	129.45	124.68
13	B	829	CLA	CMB-C2B-C3B	2.55	129.45	124.68
13	A	819	CLA	CHD-C4C-NC	2.55	128.22	124.20
13	B	808	CLA	CHD-C4C-NC	2.55	128.22	124.20
16	F	202	BCR	C16-C15-C14	-2.55	118.26	123.47
13	A	818	CLA	CAA-C2A-C3A	-2.55	105.80	112.78
16	B	837	BCR	C27-C26-C25	2.55	126.43	122.73
13	A	826	CLA	C1C-C2C-C3C	-2.55	104.28	106.96
13	A	828	CLA	CHB-C4A-NA	2.54	128.03	124.51
13	B	829	CLA	CMC-C2C-C1C	2.54	128.91	125.04
13	B	813	CLA	CMB-C2B-C3B	2.54	129.44	124.68
13	B	818	CLA	CBC-CAC-C3C	-2.54	105.42	112.43
13	A	810	CLA	CAA-CBA-CGA	-2.54	105.77	112.51
13	B	831	CLA	CAC-C3C-C4C	2.53	128.10	124.81
13	A	820	CLA	CHD-C4C-NC	2.53	128.20	124.20
13	A	829	CLA	C4-C3-C5	2.53	119.53	115.27
13	B	827	CLA	CHD-C4C-NC	2.53	128.19	124.20
13	B	805	CLA	CBC-CAC-C3C	-2.53	105.46	112.43
13	A	827	CLA	CMC-C2C-C1C	2.53	128.89	125.04
13	F	203	CLA	CMB-C2B-C3B	2.53	129.41	124.68
13	A	843	CLA	CHD-C4C-NC	2.53	128.18	124.20
14	B	834	PQN	C11-C12-C13	-2.53	122.59	126.79
16	L	206	BCR	C28-C27-C26	-2.52	109.57	114.08
13	A	805	CLA	CMC-C2C-C1C	2.52	128.88	125.04
13	A	826	CLA	CMB-C2B-C3B	2.52	129.40	124.68
13	A	830	CLA	CMA-C3A-C4A	-2.52	105.00	111.77
13	B	829	CLA	C3B-C4B-NB	2.52	112.47	109.21
13	A	838	CLA	CMC-C2C-C1C	2.52	128.88	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	815	CLA	CHD-C4C-NC	2.52	128.17	124.20
16	L	206	BCR	C3-C4-C5	-2.52	109.58	114.08
13	A	808	CLA	C4C-C3C-C2C	-2.52	103.23	106.90
13	A	806	CLA	CMA-C3A-C4A	-2.52	105.01	111.77
13	A	802	CLA	C1B-CHB-C4A	-2.52	125.14	130.12
13	L	202	CLA	O2D-CGD-O1D	-2.51	118.92	123.84
13	L	202	CLA	CHB-C4A-NA	2.51	127.99	124.51
13	B	822	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
13	B	802	CLA	C11-C12-C13	-2.51	107.80	115.92
13	J	101	CLA	CHD-C4C-NC	2.51	128.16	124.20
13	B	826	CLA	C4-C3-C5	2.51	119.49	115.27
16	M	101	BCR	C27-C26-C25	2.51	126.37	122.73
13	B	816	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
13	A	810	CLA	CHD-C4C-NC	2.51	128.15	124.20
13	B	832	CLA	C1-C2-C3	-2.51	121.71	126.04
13	B	821	CLA	CHB-C4A-NA	2.51	127.98	124.51
13	B	829	CLA	O2D-CGD-O1D	-2.50	118.94	123.84
13	A	836	CLA	CHB-C4A-NA	2.50	127.97	124.51
13	B	803	CLA	CMC-C2C-C1C	2.50	128.85	125.04
13	B	821	CLA	C1-C2-C3	-2.50	121.71	126.04
13	A	831	CLA	O2A-CGA-CBA	2.50	119.76	111.91
13	L	203	CLA	O2D-CGD-O1D	-2.50	118.95	123.84
18	B	838	LMG	C40-C39-C38	-2.50	101.73	114.42
16	L	206	BCR	C37-C22-C21	-2.50	119.42	122.92
13	L	203	CLA	CHB-C4A-NA	2.50	127.97	124.51
13	A	823	CLA	C4C-C3C-C2C	-2.50	103.25	106.90
13	A	815	CLA	CBC-CAC-C3C	-2.50	105.54	112.43
13	A	826	CLA	CHD-C4C-NC	2.50	128.14	124.20
16	A	847	BCR	C11-C10-C9	-2.50	123.75	127.31
16	F	202	BCR	C27-C26-C25	2.50	126.35	122.73
13	A	814	CLA	CMB-C2B-C3B	2.49	129.34	124.68
13	B	802	CLA	CAA-CBA-CGA	-2.49	105.97	113.25
13	A	804	CLA	CHB-C4A-NA	2.49	127.96	124.51
13	B	816	CLA	CMC-C2C-C1C	2.49	128.83	125.04
13	A	808	CLA	CBC-CAC-C3C	-2.49	105.56	112.43
13	B	817	CLA	C1-C2-C3	-2.49	121.73	126.04
16	L	205	BCR	C11-C10-C9	-2.49	123.76	127.31
13	B	810	CLA	C4-C3-C5	2.49	119.46	115.27
13	B	801	CLA	CHD-C4C-NC	2.49	128.12	124.20
13	B	803	CLA	CAA-CBA-CGA	-2.49	105.98	113.25
16	L	205	BCR	C27-C26-C25	2.49	126.34	122.73
14	B	834	PQN	C16-C15-C13	-2.49	106.93	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	803	CLA	CAC-C3C-C4C	2.49	128.04	124.81
13	K	201	CLA	CMB-C2B-C3B	2.49	129.33	124.68
13	B	814	CLA	CAC-C3C-C4C	2.48	128.03	124.81
16	L	201	BCR	C15-C16-C17	-2.48	118.38	123.47
13	B	829	CLA	CBA-CAA-C2A	-2.48	106.53	113.86
13	A	837	CLA	CMC-C2C-C1C	2.47	128.81	125.04
13	B	821	CLA	O1D-CGD-CBD	-2.47	119.42	124.48
16	B	837	BCR	C24-C23-C22	-2.47	122.50	126.23
13	A	822	CLA	CHB-C4A-NA	2.47	127.93	124.51
13	A	830	CLA	C1-C2-C3	-2.47	121.77	126.04
13	B	816	CLA	CBC-CAC-C3C	-2.47	105.62	112.43
13	A	833	CLA	CMB-C2B-C3B	2.47	129.30	124.68
13	A	837	CLA	CBC-CAC-C3C	-2.47	105.62	112.43
13	B	807	CLA	O2A-CGA-CBA	2.47	119.65	111.91
13	B	814	CLA	CBC-CAC-C3C	-2.47	105.63	112.43
12	A	801	CL0	CHB-C4A-NA	2.47	127.92	124.51
13	A	841	CLA	CHD-C4C-NC	2.47	128.09	124.20
13	B	816	CLA	C1-C2-C3	-2.46	121.78	126.04
13	B	825	CLA	CHB-C4A-NA	2.46	127.92	124.51
16	L	201	BCR	C15-C14-C13	-2.46	123.80	127.31
13	B	814	CLA	CMC-C2C-C1C	2.46	128.79	125.04
13	B	803	CLA	O2A-CGA-O1A	-2.46	117.38	123.59
16	F	201	BCR	C11-C10-C9	-2.46	123.80	127.31
13	A	841	CLA	CMC-C2C-C1C	2.46	128.78	125.04
13	A	832	CLA	CHD-C4C-NC	2.46	128.08	124.20
13	A	817	CLA	CBC-CAC-C3C	-2.46	105.65	112.43
16	A	848	BCR	C30-C25-C26	-2.46	119.15	122.61
13	A	836	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
13	A	812	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
13	B	818	CLA	CAA-C2A-C3A	-2.46	106.05	112.78
13	A	806	CLA	C4C-C3C-C2C	-2.46	103.32	106.90
13	B	807	CLA	C1-C2-C3	-2.46	121.80	126.04
16	J	104	BCR	C15-C16-C17	-2.45	118.45	123.47
13	K	203	CLA	CMB-C2B-C3B	2.45	129.27	124.68
16	A	848	BCR	C15-C14-C13	-2.45	123.81	127.31
16	I	101	BCR	C24-C23-C22	-2.45	122.53	126.23
16	J	104	BCR	C27-C26-C25	2.45	126.29	122.73
13	A	805	CLA	O1D-CGD-CBD	-2.45	119.47	124.48
13	B	822	CLA	C1-C2-C3	-2.45	121.81	126.04
13	A	825	CLA	CAA-C2A-C3A	-2.45	106.07	112.78
13	A	837	CLA	CHB-C4A-NA	2.45	127.90	124.51
13	B	806	CLA	CAC-C3C-C4C	2.45	127.98	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	808	CLA	CMB-C2B-C3B	2.44	129.25	124.68
13	B	833	CLA	CHD-C4C-NC	2.44	128.05	124.20
16	M	101	BCR	C37-C22-C21	-2.44	119.50	122.92
13	A	826	CLA	O2A-CGA-CBA	2.44	119.57	111.91
13	A	804	CLA	CMB-C2B-C3B	2.44	129.24	124.68
13	B	814	CLA	O2A-CGA-CBA	2.44	119.56	111.91
16	F	201	BCR	C27-C26-C25	2.44	126.27	122.73
13	A	832	CLA	CHB-C4A-NA	2.44	127.88	124.51
13	A	802	CLA	O2D-CGD-O1D	-2.43	119.08	123.84
13	B	805	CLA	C4-C3-C5	2.43	119.36	115.27
13	B	827	CLA	O2D-CGD-O1D	-2.43	119.08	123.84
13	A	814	CLA	O2D-CGD-O1D	-2.43	119.09	123.84
13	L	204	CLA	O2D-CGD-O1D	-2.43	119.09	123.84
13	A	811	CLA	CHB-C4A-NA	2.43	127.87	124.51
13	A	823	CLA	O1D-CGD-CBD	-2.43	119.51	124.48
13	B	804	CLA	O2D-CGD-O1D	-2.43	119.09	123.84
13	A	808	CLA	CMB-C2B-C3B	2.43	129.22	124.68
13	B	802	CLA	C11-C10-C8	-2.43	108.08	115.92
13	A	834	CLA	CAC-C3C-C4C	2.43	127.96	124.81
13	B	801	CLA	CBC-CAC-C3C	-2.42	105.75	112.43
16	A	847	BCR	C28-C27-C26	-2.42	109.75	114.08
13	A	844	CLA	O2A-CGA-CBA	2.42	119.51	111.91
13	B	827	CLA	CMA-C3A-C4A	-2.42	105.26	111.77
13	B	803	CLA	C6-C7-C8	-2.42	108.09	115.92
13	A	836	CLA	CHD-C4C-NC	2.42	128.02	124.20
13	A	830	CLA	C4-C3-C5	2.42	119.34	115.27
13	B	811	CLA	C4-C3-C5	2.42	119.34	115.27
18	B	838	LMG	O3-C3-C2	-2.42	104.76	110.35
13	B	808	CLA	O2D-CGD-O1D	-2.42	119.11	123.84
13	B	819	CLA	CAA-C2A-C1A	-2.42	104.05	111.97
13	L	204	CLA	CHB-C4A-NA	2.42	127.85	124.51
13	A	802	CLA	C4-C3-C5	2.42	119.33	115.27
13	B	830	CLA	O2D-CGD-O1D	-2.41	119.12	123.84
13	A	827	CLA	CHB-C4A-NA	2.41	127.85	124.51
13	A	816	CLA	CAA-C2A-C3A	-2.41	106.17	112.78
13	B	832	CLA	O2A-CGA-CBA	2.41	119.47	111.91
17	A	852	LHG	O8-C23-C24	2.41	119.47	111.91
18	B	838	LMG	C38-C37-C36	-2.41	102.19	114.42
13	B	802	CLA	CAC-C3C-C4C	2.41	127.94	124.81
13	B	833	CLA	CAA-C2A-C3A	-2.41	106.19	112.78
13	A	828	CLA	CAC-C3C-C4C	2.41	127.93	124.81
13	A	804	CLA	O2A-CGA-O1A	-2.40	117.31	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	819	CLA	CAA-C2A-C3A	-2.40	106.19	112.78
13	A	838	CLA	CAA-C2A-C3A	-2.40	106.20	112.78
13	A	834	CLA	O2A-CGA-O1A	-2.40	117.53	123.59
13	A	812	CLA	CMB-C2B-C3B	2.40	129.17	124.68
13	B	808	CLA	C4-C3-C5	2.40	119.31	115.27
13	A	802	CLA	CHD-C4C-NC	2.40	127.98	124.20
13	A	809	CLA	CHD-C4C-NC	2.40	127.98	124.20
13	A	831	CLA	CMB-C2B-C1B	-2.40	124.78	128.46
13	A	826	CLA	C7-C6-C5	-2.40	106.85	113.36
16	L	206	BCR	C15-C14-C13	-2.39	123.89	127.31
17	A	852	LHG	C20-C19-C18	-2.39	102.27	114.42
13	B	823	CLA	CMA-C3A-C4A	-2.39	105.34	111.77
13	A	812	CLA	CHB-C4A-NA	2.39	127.82	124.51
13	A	844	CLA	CHB-C4A-NA	2.39	127.81	124.51
13	A	816	CLA	CMB-C2B-C3B	2.39	129.14	124.68
13	A	820	CLA	C4-C3-C5	2.39	119.28	115.27
13	A	821	CLA	C4C-C3C-C2C	-2.39	103.42	106.90
13	B	828	CLA	CGD-CBD-CAD	-2.38	103.01	110.73
13	B	813	CLA	C1-C2-C3	-2.38	121.92	126.04
16	F	202	BCR	C11-C10-C9	-2.38	123.91	127.31
13	A	817	CLA	CHB-C4A-NA	2.38	127.81	124.51
13	B	802	CLA	CHB-C4A-NA	2.38	127.81	124.51
13	B	812	CLA	CHB-C4A-NA	2.38	127.81	124.51
13	B	820	CLA	CMB-C2B-C3B	2.38	129.13	124.68
13	A	821	CLA	O2A-CGA-CBA	2.38	119.38	111.91
13	A	838	CLA	C4-C3-C5	2.38	118.70	115.98
13	A	824	CLA	CHD-C4C-NC	2.38	127.95	124.20
13	B	810	CLA	CMC-C2C-C1C	2.38	128.66	125.04
13	B	811	CLA	C1-C2-C3	-2.38	121.93	126.04
13	B	823	CLA	CAA-C2A-C3A	-2.38	106.27	112.78
13	A	806	CLA	CBA-CAA-C2A	2.37	120.87	113.86
13	A	806	CLA	C6-C7-C8	-2.37	108.25	115.92
13	B	820	CLA	O2D-CGD-O1D	-2.37	119.20	123.84
13	B	816	CLA	O1D-CGD-CBD	-2.37	119.63	124.48
13	A	807	CLA	C1-C2-C3	-2.37	121.94	126.04
13	A	827	CLA	CMD-C2D-C3D	-2.37	122.16	127.61
13	A	840	CLA	CMC-C2C-C1C	2.37	128.65	125.04
16	J	104	BCR	C2-C1-C6	2.37	114.13	110.48
17	A	853	LHG	C11-C10-C9	-2.37	102.40	114.42
13	A	832	CLA	CAA-C2A-C3A	-2.37	106.30	112.78
18	B	838	LMG	C42-C41-C40	-2.37	102.42	114.42
13	B	822	CLA	CMB-C2B-C3B	2.37	129.10	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	836	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
13	B	825	CLA	CMC-C2C-C1C	2.36	128.64	125.04
13	A	832	CLA	O1D-CGD-CBD	-2.36	119.65	124.48
13	B	831	CLA	CMB-C2B-C3B	2.36	129.10	124.68
13	A	831	CLA	CHD-C4C-NC	2.36	127.93	124.20
13	B	829	CLA	CAA-C2A-C3A	-2.36	106.31	112.78
13	A	815	CLA	CMB-C2B-C3B	2.36	129.10	124.68
13	B	813	CLA	CHD-C4C-NC	2.36	127.92	124.20
13	B	832	CLA	C1-O2A-CGA	2.36	122.63	116.44
13	A	839	CLA	CMC-C2C-C1C	2.36	128.63	125.04
13	A	815	CLA	O2D-CGD-O1D	-2.36	119.23	123.84
13	B	830	CLA	O2A-CGA-O1A	-2.35	117.65	123.59
13	L	203	CLA	O2A-CGA-CBA	2.35	119.30	111.91
13	A	834	CLA	CBC-CAC-C3C	-2.35	105.94	112.43
16	A	849	BCR	C28-C27-C26	-2.35	109.88	114.08
13	A	834	CLA	CMA-C3A-C2A	-2.35	104.34	113.83
16	A	849	BCR	C24-C23-C22	-2.35	122.69	126.23
13	B	827	CLA	CBC-CAC-C3C	-2.35	105.96	112.43
16	A	850	BCR	C29-C30-C25	2.35	114.09	110.48
13	A	813	CLA	CMC-C2C-C1C	2.35	128.61	125.04
13	A	808	CLA	O2D-CGD-O1D	-2.35	119.25	123.84
13	B	809	CLA	CBC-CAC-C3C	-2.35	105.96	112.43
13	A	825	CLA	CHB-C4A-NA	2.35	127.76	124.51
13	A	805	CLA	CAA-C2A-C3A	-2.35	106.36	112.78
13	B	825	CLA	CAC-C3C-C4C	2.34	127.85	124.81
13	A	807	CLA	CHB-C4A-NA	2.34	127.75	124.51
13	B	808	CLA	CHB-C4A-NA	2.34	127.75	124.51
13	B	832	CLA	CHB-C4A-NA	2.34	127.75	124.51
16	K	202	BCR	C16-C17-C18	-2.34	123.97	127.31
13	A	824	CLA	C1-C2-C3	-2.34	121.99	126.04
13	A	844	CLA	CAC-C3C-C2C	2.34	131.53	127.53
13	A	835	CLA	CMB-C2B-C1B	2.34	132.06	128.46
13	A	827	CLA	O2D-CGD-O1D	-2.34	119.27	123.84
16	J	104	BCR	C15-C14-C13	-2.34	123.97	127.31
13	B	833	CLA	CHB-C4A-NA	2.34	127.74	124.51
13	A	830	CLA	CMC-C2C-C1C	2.34	128.60	125.04
13	A	813	CLA	O2A-CGA-CBA	2.34	119.24	111.91
13	B	825	CLA	O2A-CGA-O1A	-2.34	117.70	123.59
13	A	839	CLA	CAA-C2A-C3A	-2.34	106.38	112.78
13	B	810	CLA	O2D-CGD-O1D	-2.33	119.27	123.84
13	A	812	CLA	CHD-C4C-NC	2.33	127.88	124.20
16	A	847	BCR	C15-C14-C13	-2.33	123.98	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	F	203	CLA	O2D-CGD-O1D	-2.33	119.28	123.84
16	A	851	BCR	C29-C30-C25	2.33	114.06	110.48
13	A	819	CLA	C4-C3-C5	2.33	119.19	115.27
13	K	203	CLA	CMC-C2C-C1C	2.32	128.58	125.04
16	L	205	BCR	C15-C16-C17	-2.32	118.72	123.47
13	B	822	CLA	O2A-C1-C2	2.32	114.73	108.64
13	A	808	CLA	CAA-C2A-C3A	-2.32	106.43	112.78
13	A	807	CLA	C4-C3-C5	2.32	119.17	115.27
17	A	852	LHG	C18-C17-C16	-2.32	102.67	114.42
13	A	834	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
13	B	828	CLA	CBC-CAC-C3C	-2.31	106.06	112.43
13	A	829	CLA	CHC-C1C-C2C	-2.31	120.33	126.72
16	K	202	BCR	C29-C30-C25	2.31	114.04	110.48
13	B	802	CLA	CMB-C2B-C1B	2.31	132.01	128.46
13	A	836	CLA	CBC-CAC-C3C	-2.31	106.07	112.43
13	L	204	CLA	C1-C2-C3	-2.31	122.06	126.04
13	A	823	CLA	C4-C3-C5	2.30	119.15	115.27
13	A	813	CLA	CHB-C4A-NA	2.30	127.70	124.51
13	A	822	CLA	C1-O2A-CGA	2.30	122.49	116.44
13	B	826	CLA	CHD-C4C-NC	2.30	127.83	124.20
13	A	831	CLA	O1D-CGD-CBD	-2.30	119.78	124.48
16	B	837	BCR	C15-C16-C17	-2.30	118.76	123.47
17	A	852	LHG	O8-C23-O10	-2.30	117.79	123.59
13	A	828	CLA	CMB-C2B-C3B	2.30	128.98	124.68
13	A	841	CLA	CBC-CAC-C3C	-2.30	106.09	112.43
13	B	826	CLA	CHB-C4A-NA	2.30	127.69	124.51
13	A	814	CLA	CHD-C4C-NC	2.30	127.82	124.20
13	A	817	CLA	CAA-C2A-C3A	-2.30	106.49	112.78
13	B	819	CLA	CHB-C4A-NA	2.30	127.69	124.51
16	F	201	BCR	C24-C23-C22	-2.30	122.77	126.23
13	B	828	CLA	CHB-C4A-NA	2.30	127.69	124.51
13	A	841	CLA	CHB-C4A-NA	2.29	127.69	124.51
13	B	833	CLA	CAC-C3C-C4C	2.29	127.78	124.81
13	A	830	CLA	CHA-C1A-NA	-2.29	121.15	126.40
13	B	818	CLA	CMC-C2C-C1C	2.29	128.53	125.04
13	A	830	CLA	CHB-C4A-NA	2.29	127.68	124.51
13	A	844	CLA	O1D-CGD-CBD	-2.29	119.80	124.48
13	A	832	CLA	CBC-CAC-C3C	-2.29	106.12	112.43
13	B	811	CLA	O2A-CGA-O1A	-2.29	117.82	123.59
13	A	836	CLA	C1-C2-C3	-2.29	122.09	126.04
13	L	203	CLA	CAC-C3C-C4C	2.29	127.78	124.81
13	A	814	CLA	CHB-C4A-NA	2.29	127.67	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	820	CLA	C1-C2-C3	-2.28	122.09	126.04
13	A	809	CLA	O2A-CGA-O1A	-2.28	117.83	123.59
13	A	807	CLA	O2A-CGA-O1A	-2.28	117.84	123.59
17	A	852	LHG	C27-C26-C25	-2.28	102.85	114.42
13	B	815	CLA	CBC-CAC-C3C	-2.28	106.15	112.43
13	B	823	CLA	CHB-C4A-NA	2.28	127.66	124.51
16	J	103	BCR	C15-C16-C17	-2.28	118.81	123.47
13	B	811	CLA	CMC-C2C-C1C	2.28	128.51	125.04
13	B	823	CLA	O1D-CGD-CBD	-2.28	119.83	124.48
13	B	806	CLA	C1-C2-C3	-2.27	122.11	126.04
16	I	101	BCR	C11-C10-C9	-2.27	124.07	127.31
13	B	826	CLA	C1-C2-C3	-2.27	122.12	126.04
13	B	807	CLA	CBC-CAC-C3C	-2.27	106.18	112.43
13	A	819	CLA	CHA-C1A-NA	-2.27	121.20	126.40
13	A	840	CLA	C4-C3-C5	2.27	119.08	115.27
13	F	203	CLA	CBC-CAC-C3C	-2.27	106.18	112.43
13	B	822	CLA	CHB-C4A-NA	2.27	127.64	124.51
14	A	845	PQN	C16-C15-C13	-2.27	107.52	113.45
13	A	817	CLA	CHD-C4C-NC	2.26	127.77	124.20
13	A	837	CLA	CAA-C2A-C3A	-2.26	106.58	112.78
13	B	809	CLA	C4-C3-C5	2.26	119.08	115.27
13	B	816	CLA	C4-C3-C5	2.26	119.07	115.27
13	A	840	CLA	CHB-C4A-NA	2.26	127.64	124.51
16	F	201	BCR	C15-C14-C13	-2.26	124.08	127.31
13	A	820	CLA	CHC-C1C-NC	2.26	127.63	124.20
13	A	803	CLA	O2A-CGA-CBA	2.26	121.29	114.03
12	A	801	CL0	O1D-CGD-CBD	-2.26	119.86	124.48
13	B	810	CLA	CBC-CAC-C3C	-2.26	106.21	112.43
13	A	832	CLA	O2A-CGA-O1A	-2.26	117.90	123.59
13	A	835	CLA	C11-C10-C8	-2.26	108.62	115.92
13	A	830	CLA	O2D-CGD-O1D	-2.26	119.43	123.84
13	A	835	CLA	OBD-CAD-C3D	-2.26	123.09	128.52
16	L	206	BCR	C29-C30-C25	2.25	113.95	110.48
16	A	850	BCR	C35-C13-C14	-2.25	119.77	122.92
13	A	841	CLA	C11-C10-C8	-2.25	108.64	115.92
13	B	801	CLA	C1-C2-C3	-2.25	122.15	126.04
13	A	822	CLA	CMB-C2B-C3B	2.25	128.89	124.68
13	A	831	CLA	CHB-C4A-NA	2.25	127.62	124.51
13	B	824	CLA	CHB-C4A-NA	2.25	127.62	124.51
13	A	807	CLA	CBC-CAC-C3C	-2.25	106.23	112.43
13	B	812	CLA	O2D-CGD-O1D	-2.25	119.44	123.84
13	B	821	CLA	CBA-CAA-C2A	2.25	120.50	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	J	103	BCR	C15-C14-C13	-2.24	124.11	127.31
13	B	809	CLA	O1D-CGD-CBD	-2.24	119.89	124.48
13	K	203	CLA	CAA-C2A-C3A	-2.24	106.64	112.78
13	A	802	CLA	O1D-CGD-CBD	-2.24	119.90	124.48
13	A	825	CLA	CHD-C4C-NC	2.24	127.73	124.20
13	B	828	CLA	CHD-C4C-NC	2.24	127.73	124.20
16	B	836	BCR	C11-C10-C9	-2.24	124.12	127.31
13	B	815	CLA	CAA-C2A-C3A	-2.24	106.65	112.78
13	B	820	CLA	CHA-C1A-NA	-2.24	121.28	126.40
13	A	829	CLA	O2D-CGD-O1D	-2.23	119.47	123.84
13	B	825	CLA	CMB-C2B-C3B	2.23	128.85	124.68
16	J	103	BCR	C16-C15-C14	-2.23	118.90	123.47
13	A	828	CLA	O1D-CGD-CBD	-2.23	119.92	124.48
16	A	849	BCR	C15-C16-C17	-2.23	118.91	123.47
13	B	813	CLA	CHB-C4A-NA	2.23	127.59	124.51
13	B	818	CLA	C4-C3-C5	2.23	119.02	115.27
13	B	806	CLA	CHC-C1C-NC	2.23	127.58	124.20
13	A	824	CLA	CAA-C2A-C3A	-2.22	106.69	112.78
13	B	816	CLA	O2A-CGA-CBA	2.22	118.89	111.91
13	A	806	CLA	CAA-C2A-C3A	-2.22	106.69	112.78
13	B	818	CLA	C2A-C3A-C4A	-2.22	98.28	101.87
13	A	838	CLA	O1D-CGD-CBD	-2.22	119.94	124.48
13	B	802	CLA	CHA-C1A-NA	-2.22	121.32	126.40
16	J	102	BCR	C24-C23-C22	-2.22	122.88	126.23
13	A	823	CLA	CAC-C3C-C4C	2.22	127.68	124.81
13	K	201	CLA	CHB-C4A-NA	2.22	127.58	124.51
13	B	833	CLA	C4-C3-C5	2.21	119.00	115.27
13	B	829	CLA	CHA-C1A-NA	-2.21	121.33	126.40
13	A	837	CLA	O1D-CGD-CBD	-2.21	119.96	124.48
16	B	837	BCR	C10-C11-C12	-2.21	116.32	123.22
13	B	820	CLA	O1D-CGD-CBD	-2.21	119.97	124.48
13	B	807	CLA	OBD-CAD-C3D	-2.21	123.21	128.52
13	B	832	CLA	CAA-C2A-C3A	-2.21	106.74	112.78
13	A	838	CLA	CGD-CBD-CAD	-2.21	103.59	110.73
13	A	830	CLA	CMB-C2B-C3B	2.21	128.80	124.68
16	A	848	BCR	C7-C8-C9	-2.21	122.90	126.23
13	A	813	CLA	CBC-CAC-C3C	-2.21	106.35	112.43
13	A	829	CLA	CHA-C1A-NA	-2.20	121.35	126.40
13	B	831	CLA	CHB-C4A-NA	2.20	127.56	124.51
13	A	833	CLA	CBC-CAC-C3C	-2.20	106.36	112.43
13	K	201	CLA	CMC-C2C-C1C	2.20	128.39	125.04
16	J	103	BCR	C38-C26-C25	-2.20	122.06	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	818	CLA	CMB-C2B-C3B	2.20	128.79	124.68
12	A	801	CL0	O2A-CGA-O1A	-2.20	118.04	123.59
16	L	201	BCR	C27-C26-C25	2.20	125.92	122.73
13	B	812	CLA	CMB-C2B-C3B	2.20	128.79	124.68
13	A	833	CLA	CHB-C4A-NA	2.20	127.55	124.51
13	B	821	CLA	C4-C3-C5	2.19	118.96	115.27
13	B	819	CLA	CMD-C2D-C3D	-2.19	122.57	127.61
13	A	839	CLA	O1D-CGD-CBD	-2.19	120.00	124.48
13	B	810	CLA	CHA-C1A-NA	-2.19	121.38	126.40
16	J	104	BCR	C1-C6-C5	-2.19	119.53	122.61
13	A	810	CLA	O2A-CGA-CBA	2.19	121.07	114.03
13	A	840	CLA	C6-C5-C3	2.19	119.20	113.45
13	B	830	CLA	CED-O2D-CGD	2.19	120.89	115.94
13	A	812	CLA	C11-C12-C13	-2.19	108.84	115.92
13	A	821	CLA	O1D-CGD-CBD	-2.19	120.01	124.48
13	B	824	CLA	O2D-CGD-O1D	-2.19	119.56	123.84
16	K	202	BCR	C11-C10-C9	-2.19	124.19	127.31
13	A	834	CLA	CMC-C2C-C1C	2.18	128.37	125.04
13	A	834	CLA	CMB-C2B-C3B	2.18	128.76	124.68
12	A	801	CL0	C4-C3-C5	2.18	118.94	115.27
13	B	830	CLA	CMB-C2B-C3B	2.18	128.76	124.68
16	F	202	BCR	C15-C16-C17	-2.18	119.00	123.47
13	A	818	CLA	O2D-CGD-O1D	-2.18	119.57	123.84
13	A	841	CLA	CHA-C1A-NA	-2.18	121.40	126.40
13	B	820	CLA	CHB-C4A-NA	2.18	127.53	124.51
16	B	837	BCR	C16-C15-C14	-2.18	119.01	123.47
16	J	102	BCR	C29-C30-C25	2.18	113.83	110.48
13	B	801	CLA	CMB-C2B-C3B	2.17	128.75	124.68
16	A	848	BCR	C15-C16-C17	-2.17	119.03	123.47
13	A	809	CLA	CAA-C2A-C3A	-2.17	106.84	112.78
13	A	814	CLA	CAC-C3C-C2C	2.17	131.24	127.53
13	A	810	CLA	CMC-C2C-C1C	2.17	128.34	125.04
13	A	824	CLA	CMC-C2C-C1C	2.17	128.34	125.04
16	F	201	BCR	C16-C15-C14	-2.17	119.03	123.47
13	B	832	CLA	CMC-C2C-C1C	2.17	128.34	125.04
13	A	815	CLA	O1D-CGD-CBD	-2.17	120.05	124.48
13	A	836	CLA	CMC-C2C-C1C	2.17	128.34	125.04
13	B	829	CLA	O1D-CGD-CBD	-2.17	120.05	124.48
16	B	836	BCR	C7-C8-C9	-2.16	122.96	126.23
16	A	847	BCR	C29-C30-C25	2.16	113.81	110.48
13	A	827	CLA	CAA-C2A-C1A	-2.16	104.89	111.97
13	B	802	CLA	C1B-CHB-C4A	-2.16	125.83	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	805	CLA	CMB-C2B-C3B	2.16	128.72	124.68
16	A	849	BCR	C15-C14-C13	-2.16	124.22	127.31
13	L	204	CLA	CBC-CAC-C3C	-2.16	106.47	112.43
16	F	202	BCR	C38-C26-C27	-2.16	109.46	113.62
13	A	832	CLA	CMD-C2D-C3D	-2.16	122.64	127.61
13	A	842	CLA	CHA-C1A-NA	-2.16	121.45	126.40
13	A	823	CLA	CHB-C4A-NA	2.16	127.50	124.51
13	A	826	CLA	C4-C3-C5	2.16	118.90	115.27
13	A	840	CLA	CBC-CAC-C3C	-2.16	106.48	112.43
16	M	101	BCR	C15-C14-C13	-2.16	124.23	127.31
13	B	829	CLA	CHB-C4A-NA	2.16	127.49	124.51
13	A	823	CLA	CBA-CAA-C2A	2.15	120.22	113.86
13	A	810	CLA	O2A-CGA-O1A	-2.15	117.93	123.30
13	B	832	CLA	C4-C3-C5	2.15	118.89	115.27
13	A	844	CLA	CMB-C2B-C3B	2.15	128.70	124.68
13	A	806	CLA	CBC-CAC-C3C	-2.15	106.50	112.43
13	A	819	CLA	O2D-CGD-O1D	-2.15	119.64	123.84
13	B	808	CLA	CMC-C2C-C1C	2.15	128.31	125.04
13	A	809	CLA	CBA-CAA-C2A	2.15	120.20	113.86
16	A	849	BCR	C16-C15-C14	-2.15	119.07	123.47
13	B	828	CLA	CMC-C2C-C1C	2.15	128.31	125.04
13	A	819	CLA	C1-C2-C3	-2.15	122.33	126.04
13	A	815	CLA	CHA-C1A-NA	-2.15	121.48	126.40
13	A	835	CLA	C1B-CHB-C4A	-2.14	125.87	130.12
13	A	802	CLA	C11-C10-C8	-2.14	108.99	115.92
13	A	843	CLA	CMB-C2B-C3B	2.14	128.69	124.68
13	B	811	CLA	CBC-CAC-C3C	-2.14	106.53	112.43
16	F	202	BCR	C40-C30-C25	2.14	113.77	110.30
13	B	812	CLA	CBC-CAC-C3C	-2.14	106.53	112.43
13	A	821	CLA	CMB-C2B-C3B	2.14	128.68	124.68
13	A	821	CLA	CAC-C3C-C4C	2.14	127.58	124.81
13	A	826	CLA	C1-C2-C3	-2.14	122.34	126.04
13	L	202	CLA	O1D-CGD-CBD	-2.14	120.11	124.48
13	B	827	CLA	CAA-C2A-C3A	-2.14	106.92	112.78
13	B	821	CLA	C11-C10-C8	-2.14	109.01	115.92
13	A	832	CLA	CMC-C2C-C1C	2.14	128.29	125.04
13	F	203	CLA	CHB-C4A-NA	2.14	127.47	124.51
14	A	845	PQN	C11-C12-C13	-2.13	123.24	126.79
13	A	839	CLA	CHB-C4A-NA	2.13	127.46	124.51
16	J	102	BCR	C15-C14-C13	-2.13	124.27	127.31
13	A	804	CLA	O1D-CGD-CBD	-2.13	120.13	124.48
13	B	825	CLA	CHA-C1A-NA	-2.13	121.52	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	A	848	BCR	C16-C17-C18	-2.13	124.27	127.31
13	B	814	CLA	O1D-CGD-CBD	-2.13	120.13	124.48
13	B	802	CLA	O2A-CGA-CBA	2.13	118.58	111.91
13	A	825	CLA	CBC-CAC-C3C	-2.13	106.57	112.43
13	A	838	CLA	CMD-C2D-C3D	-2.13	122.72	127.61
13	L	203	CLA	C1-C2-C3	-2.13	122.37	126.04
13	B	824	CLA	CMC-C2C-C1C	2.13	128.28	125.04
13	A	825	CLA	CMC-C2C-C1C	2.12	128.28	125.04
13	B	810	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
13	B	804	CLA	C4-C3-C5	2.12	118.84	115.27
13	B	833	CLA	CBC-CAC-C3C	-2.12	106.58	112.43
13	A	843	CLA	CAA-C2A-C3A	-2.12	106.96	112.78
13	A	805	CLA	CHA-C1A-NA	-2.12	121.54	126.40
13	B	828	CLA	CHA-C1A-NA	-2.12	121.54	126.40
13	A	816	CLA	CBC-CAC-C3C	-2.12	106.58	112.43
13	A	838	CLA	CAC-C3C-C4C	2.12	127.56	124.81
13	B	830	CLA	CMC-C2C-C1C	2.12	128.27	125.04
13	B	811	CLA	CHD-C4C-NC	2.12	127.54	124.20
16	J	102	BCR	C2-C1-C6	2.12	113.74	110.48
13	B	805	CLA	O1D-CGD-CBD	-2.12	120.15	124.48
13	A	803	CLA	CMC-C2C-C1C	2.12	128.26	125.04
13	A	824	CLA	CHA-C1A-NA	-2.12	121.55	126.40
16	F	202	BCR	C35-C13-C14	-2.12	119.96	122.92
13	B	827	CLA	CMC-C2C-C1C	2.11	128.26	125.04
13	A	802	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
13	A	842	CLA	CGD-CBD-CAD	-2.11	103.89	110.73
13	A	842	CLA	CHB-C4A-NA	2.11	127.43	124.51
13	B	819	CLA	O1D-CGD-CBD	-2.11	120.16	124.48
13	A	826	CLA	CHA-C1A-NA	-2.11	121.56	126.40
13	B	817	CLA	CED-O2D-CGD	2.11	120.71	115.94
13	A	823	CLA	CBC-CAC-C3C	-2.11	106.61	112.43
13	K	203	CLA	CHB-C4A-NA	2.11	127.43	124.51
13	B	832	CLA	O2D-CGD-O1D	-2.11	119.71	123.84
13	B	817	CLA	C4-C3-C5	2.11	118.82	115.27
13	A	843	CLA	C1-O2A-CGA	2.11	121.98	116.44
13	A	840	CLA	CAC-C3C-C4C	2.11	127.55	124.81
13	B	824	CLA	C1B-CHB-C4A	-2.11	125.94	130.12
13	B	830	CLA	CAC-C3C-C4C	2.11	127.54	124.81
13	A	809	CLA	C1-C2-C3	-2.11	122.40	126.04
13	B	825	CLA	CGD-CBD-CAD	-2.11	103.91	110.73
13	A	835	CLA	C11-C12-C13	-2.11	109.11	115.92
16	A	851	BCR	C15-C16-C17	-2.10	119.16	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	825	CLA	O1D-CGD-CBD	-2.10	120.18	124.48
13	A	820	CLA	C1B-CHB-C4A	-2.10	125.95	130.12
13	B	821	CLA	CBC-CAC-C3C	-2.10	106.63	112.43
16	M	101	BCR	C33-C5-C6	-2.10	122.17	124.53
18	B	838	LMG	C3-C4-C5	-2.10	106.49	110.24
13	B	831	CLA	CMC-C2C-C1C	2.10	128.24	125.04
13	A	838	CLA	OBD-CAD-C3D	-2.10	123.47	128.52
13	A	807	CLA	CHA-C1A-NA	-2.10	121.59	126.40
13	A	833	CLA	C1-C2-C3	-2.10	122.41	126.04
13	A	827	CLA	CMB-C2B-C3B	2.09	128.60	124.68
13	B	801	CLA	CHB-C4A-NA	2.09	127.41	124.51
16	K	202	BCR	C20-C21-C22	-2.09	124.33	127.31
13	A	806	CLA	CHC-C1C-NC	2.09	127.38	124.20
13	A	833	CLA	CMC-C2C-C1C	2.09	128.22	125.04
13	A	832	CLA	C5-C3-C4	2.09	119.22	114.60
13	A	814	CLA	CHA-C1A-NA	-2.09	121.61	126.40
13	A	819	CLA	CBA-CAA-C2A	2.09	120.02	113.86
13	A	840	CLA	CMD-C2D-C3D	-2.09	122.81	127.61
13	F	203	CLA	CMC-C2C-C1C	2.09	128.22	125.04
13	K	203	CLA	O1D-CGD-CBD	-2.08	120.22	124.48
13	B	833	CLA	C16-C15-C13	-2.08	109.18	115.92
13	B	814	CLA	CMA-C3A-C4A	-2.08	106.17	111.77
13	B	826	CLA	CBC-CAC-C3C	-2.08	106.69	112.43
13	B	807	CLA	CHB-C4A-NA	2.08	127.39	124.51
13	A	802	CLA	CGD-CBD-CAD	-2.08	103.99	110.73
13	A	839	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
16	F	202	BCR	C33-C5-C6	-2.08	122.19	124.53
13	B	804	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
13	J	101	CLA	O1D-CGD-CBD	-2.08	120.23	124.48
13	A	825	CLA	CHA-C1A-NA	-2.08	121.64	126.40
13	B	808	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
13	A	817	CLA	O2D-CGD-O1D	-2.08	119.78	123.84
13	A	822	CLA	C1-C2-C3	-2.08	122.45	126.04
16	K	202	BCR	C15-C16-C17	-2.07	119.22	123.47
16	A	850	BCR	C11-C10-C9	-2.07	124.35	127.31
13	A	813	CLA	CMB-C2B-C3B	2.07	128.56	124.68
13	B	824	CLA	CBA-CAA-C2A	2.07	119.98	113.86
13	A	843	CLA	CMC-C2C-C1C	2.07	128.19	125.04
13	A	840	CLA	CHA-C1A-NA	-2.07	121.65	126.40
13	A	810	CLA	CHA-C1A-NA	-2.07	121.66	126.40
13	A	842	CLA	C1-C2-C3	-2.07	122.46	126.04
16	A	849	BCR	C29-C30-C25	2.07	113.67	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	804	CLA	CMC-C2C-C1C	2.07	128.18	125.04
13	B	807	CLA	CHA-C1A-NA	-2.06	121.67	126.40
13	B	804	CLA	C1C-C2C-C3C	-2.06	104.79	106.96
16	A	851	BCR	C32-C1-C6	2.06	113.64	110.30
13	B	804	CLA	CHC-C1C-NC	2.06	127.33	124.20
13	K	203	CLA	O2A-CGA-CBA	2.06	120.66	114.03
13	B	815	CLA	CMB-C2B-C3B	2.06	128.53	124.68
16	F	202	BCR	C30-C25-C26	-2.06	119.71	122.61
13	B	817	CLA	CHB-C4A-NA	2.06	127.36	124.51
13	B	801	CLA	CAA-C2A-C3A	-2.06	107.14	112.78
13	B	823	CLA	C1-C2-C3	-2.06	122.49	126.04
13	A	819	CLA	CHC-C1C-NC	2.06	127.32	124.20
16	J	102	BCR	C28-C27-C26	-2.06	110.41	114.08
16	L	201	BCR	C16-C15-C14	-2.05	119.27	123.47
13	B	821	CLA	CHA-C1A-NA	-2.05	121.69	126.40
13	A	820	CLA	CAA-CBA-CGA	2.05	119.25	113.25
13	B	801	CLA	C11-C12-C13	-2.05	109.28	115.92
14	B	834	PQN	C16-C17-C18	-2.05	109.28	115.92
13	B	826	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
13	A	829	CLA	CHB-C4A-NA	2.05	127.35	124.51
13	A	827	CLA	C1-C2-C3	-2.05	122.50	126.04
13	A	844	CLA	CHC-C1C-NC	2.05	127.31	124.20
16	A	847	BCR	C7-C8-C9	-2.05	123.14	126.23
13	B	807	CLA	O2D-CGD-O1D	-2.04	119.85	123.84
13	A	829	CLA	CAA-C2A-C3A	-2.04	107.19	112.78
13	B	805	CLA	C1-C2-C3	-2.04	122.51	126.04
13	A	843	CLA	C11-C10-C8	-2.04	109.32	115.92
16	L	205	BCR	C33-C5-C6	-2.04	122.24	124.53
13	B	817	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
13	A	819	CLA	CBC-CAC-C3C	-2.04	106.81	112.43
13	B	810	CLA	C11-C10-C8	-2.04	109.33	115.92
13	A	842	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
13	A	808	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
13	A	812	CLA	C6-C7-C8	-2.04	109.34	115.92
13	B	812	CLA	CHA-C1A-NA	-2.03	121.74	126.40
13	B	804	CLA	CHA-C1A-NA	-2.03	121.74	126.40
13	A	821	CLA	CAA-C2A-C3A	-2.03	107.21	112.78
13	A	812	CLA	CMD-C2D-C3D	-2.03	122.94	127.61
13	J	101	CLA	CHC-C1C-NC	2.03	127.29	124.20
13	B	822	CLA	CMC-C2C-C1C	2.03	128.13	125.04
13	B	820	CLA	OBD-CAD-C3D	-2.03	123.63	128.52
13	A	830	CLA	CMA-C3A-C2A	-2.03	105.63	113.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	820	CLA	CBC-CAC-C3C	-2.03	106.83	112.43
13	B	801	CLA	CED-O2D-CGD	2.03	120.53	115.94
13	B	818	CLA	CHA-C1A-NA	-2.03	121.75	126.40
16	B	837	BCR	C33-C5-C6	-2.03	122.25	124.53
13	J	101	CLA	CBC-CAC-C3C	-2.03	106.84	112.43
13	B	826	CLA	CMD-C2D-C3D	-2.03	122.95	127.61
13	B	801	CLA	CHA-C1A-NA	-2.03	121.76	126.40
13	A	824	CLA	C1B-CHB-C4A	-2.03	126.11	130.12
13	B	819	CLA	O2A-CGA-CBA	2.02	120.23	112.23
13	B	822	CLA	CBA-CAA-C2A	2.02	119.84	113.86
13	A	830	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
13	B	821	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
13	A	814	CLA	CAC-C3C-C4C	2.02	127.43	124.81
13	B	813	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
13	B	833	CLA	CHC-C1C-NC	2.02	127.27	124.20
13	B	830	CLA	CBC-CAC-C3C	-2.02	106.86	112.43
13	L	204	CLA	C1B-CHB-C4A	-2.02	126.12	130.12
13	A	820	CLA	CAA-C2A-C1A	-2.02	105.36	111.97
13	B	833	CLA	C6-C7-C8	-2.02	109.40	115.92
13	A	828	CLA	CBC-CAC-C3C	-2.02	106.87	112.43
13	A	838	CLA	CHA-C1A-NA	-2.02	121.78	126.40
13	A	803	CLA	O2D-CGD-O1D	-2.02	119.90	123.84
13	L	202	CLA	CBC-CAC-C3C	-2.02	106.87	112.43
16	K	202	BCR	C35-C13-C14	-2.02	120.10	122.92
13	A	818	CLA	CMC-C2C-C1C	2.02	128.11	125.04
13	B	808	CLA	C11-C10-C8	-2.01	109.41	115.92
16	A	847	BCR	C33-C5-C6	-2.01	122.27	124.53
13	B	831	CLA	CBC-CAC-C3C	-2.01	106.88	112.43
13	A	811	CLA	CMC-C2C-C1C	2.01	128.10	125.04
16	B	836	BCR	C24-C23-C22	-2.01	123.19	126.23
13	A	835	CLA	CBC-CAC-C3C	-2.01	106.89	112.43
13	B	830	CLA	CBA-CAA-C2A	2.01	119.80	113.86
13	A	821	CLA	C1-C2-C3	-2.01	122.57	126.04
13	A	839	CLA	C6-C7-C8	-2.01	109.43	115.92
13	K	203	CLA	CHA-C1A-NA	-2.01	121.80	126.40
13	A	813	CLA	CHA-C1A-NA	-2.01	121.80	126.40
13	B	812	CLA	CMA-C3A-C2A	-2.01	105.73	113.83
13	A	835	CLA	CMC-C2C-C1C	2.01	128.10	125.04
13	A	806	CLA	C1-O2A-CGA	2.01	121.71	116.44
13	A	803	CLA	C1B-CHB-C4A	-2.01	126.14	130.12
13	A	817	CLA	CHA-C1A-NA	-2.01	121.81	126.40
13	B	821	CLA	O2D-CGD-O1D	-2.01	119.92	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	812	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
13	A	824	CLA	CHB-C4A-NA	2.01	127.28	124.51
13	B	827	CLA	CMB-C2B-C3B	2.00	128.43	124.68
13	B	825	CLA	C6-C7-C8	-2.00	109.44	115.92
13	A	819	CLA	C1-O2A-CGA	2.00	121.70	116.44
13	B	822	CLA	CMA-C3A-C4A	-2.00	106.39	111.77
16	B	835	BCR	C24-C23-C22	-2.00	123.21	126.23
16	B	837	BCR	C15-C14-C13	-2.00	124.45	127.31
13	A	828	CLA	CAA-CBA-CGA	-2.00	107.40	113.25
13	A	827	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
13	A	841	CLA	O2A-CGA-O1A	-2.00	118.54	123.59

All (72) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
12	A	801	CL0	ND
12	A	801	CL0	NC
13	A	802	CLA	ND
13	A	803	CLA	ND
13	A	804	CLA	ND
13	A	805	CLA	ND
13	A	806	CLA	ND
13	A	807	CLA	ND
13	A	808	CLA	ND
13	A	809	CLA	ND
13	A	810	CLA	ND
13	A	811	CLA	ND
13	A	812	CLA	ND
13	A	813	CLA	ND
13	A	814	CLA	ND
13	A	815	CLA	ND
13	A	819	CLA	ND
13	A	820	CLA	ND
13	A	821	CLA	ND
13	A	822	CLA	ND
13	A	825	CLA	ND
13	A	826	CLA	ND
13	A	827	CLA	ND
13	A	828	CLA	ND
13	A	829	CLA	ND
13	A	830	CLA	ND
13	A	831	CLA	ND

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Mol	Chain	Res	Type	Atom
13	A	833	CLA	ND
13	A	834	CLA	ND
13	A	835	CLA	ND
13	A	837	CLA	ND
13	A	838	CLA	ND
13	A	839	CLA	ND
13	A	840	CLA	ND
13	A	841	CLA	ND
13	A	842	CLA	ND
13	A	843	CLA	ND
13	A	844	CLA	ND
13	B	801	CLA	ND
13	B	802	CLA	ND
13	B	803	CLA	ND
13	B	804	CLA	ND
13	B	805	CLA	ND
13	B	806	CLA	ND
13	B	807	CLA	ND
13	B	808	CLA	ND
13	B	809	CLA	ND
13	B	810	CLA	ND
13	B	811	CLA	ND
13	B	812	CLA	ND
13	B	813	CLA	ND
13	B	814	CLA	ND
13	B	815	CLA	ND
13	B	816	CLA	ND
13	B	817	CLA	ND
13	B	818	CLA	ND
13	B	819	CLA	ND
13	B	820	CLA	ND
13	B	821	CLA	ND
13	B	822	CLA	ND
13	B	823	CLA	ND
13	B	825	CLA	ND
13	B	826	CLA	ND
13	B	828	CLA	ND
13	B	829	CLA	ND
13	B	830	CLA	ND
13	B	831	CLA	ND
13	F	203	CLA	ND
13	J	101	CLA	ND

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Mol	Chain	Res	Type	Atom
13	K	201	CLA	ND
13	K	203	CLA	ND
13	L	204	CLA	ND

All (1069) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	A	804	CLA	CHA-CBD-CGD-O1D
13	A	804	CLA	CHA-CBD-CGD-O2D
13	A	805	CLA	CHA-CBD-CGD-O1D
13	A	805	CLA	CHA-CBD-CGD-O2D
13	A	806	CLA	C3A-C2A-CAA-CBA
13	A	807	CLA	C1A-C2A-CAA-CBA
13	A	808	CLA	C2-C3-C5-C6
13	A	809	CLA	C3A-C2A-CAA-CBA
13	A	811	CLA	CBD-CGD-O2D-CED
13	A	813	CLA	C2-C3-C5-C6
13	A	813	CLA	C4-C3-C5-C6
13	A	815	CLA	C1A-C2A-CAA-CBA
13	A	819	CLA	C1A-C2A-CAA-CBA
13	A	820	CLA	C1A-C2A-CAA-CBA
13	A	820	CLA	C3A-C2A-CAA-CBA
13	A	820	CLA	CHA-CBD-CGD-O1D
13	A	820	CLA	CHA-CBD-CGD-O2D
13	A	822	CLA	CHA-CBD-CGD-O1D
13	A	822	CLA	CHA-CBD-CGD-O2D
13	A	823	CLA	C1A-C2A-CAA-CBA
13	A	823	CLA	C3A-C2A-CAA-CBA
13	A	824	CLA	C2-C3-C5-C6
13	A	824	CLA	C4-C3-C5-C6
13	A	829	CLA	C1A-C2A-CAA-CBA
13	A	829	CLA	C3A-C2A-CAA-CBA
13	A	829	CLA	CBD-CGD-O2D-CED
13	A	829	CLA	C2-C3-C5-C6
13	A	829	CLA	C4-C3-C5-C6
13	A	830	CLA	C2A-CAA-CBA-CGA
13	A	831	CLA	CHA-CBD-CGD-O2D
13	A	833	CLA	C2-C3-C5-C6
13	A	833	CLA	C4-C3-C5-C6
13	A	835	CLA	CBD-CGD-O2D-CED
13	A	837	CLA	CHA-CBD-CGD-O1D
13	A	837	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	A	838	CLA	CHA-CBD-CGD-O1D
13	A	838	CLA	CHA-CBD-CGD-O2D
13	A	839	CLA	CHA-CBD-CGD-O1D
13	A	839	CLA	CHA-CBD-CGD-O2D
13	A	840	CLA	CHA-CBD-CGD-O1D
13	A	840	CLA	CHA-CBD-CGD-O2D
13	A	841	CLA	CHA-CBD-CGD-O1D
13	A	841	CLA	CHA-CBD-CGD-O2D
13	A	842	CLA	C2-C3-C5-C6
13	A	842	CLA	C4-C3-C5-C6
13	A	844	CLA	C1A-C2A-CAA-CBA
13	A	844	CLA	C3A-C2A-CAA-CBA
13	B	802	CLA	CHA-CBD-CGD-O1D
13	B	802	CLA	CHA-CBD-CGD-O2D
13	B	802	CLA	CBD-CGD-O2D-CED
13	B	803	CLA	C2-C3-C5-C6
13	B	803	CLA	C4-C3-C5-C6
13	B	804	CLA	CBD-CGD-O2D-CED
13	B	805	CLA	CHA-CBD-CGD-O1D
13	B	805	CLA	CHA-CBD-CGD-O2D
13	B	806	CLA	C3A-C2A-CAA-CBA
13	B	808	CLA	CHA-CBD-CGD-O1D
13	B	808	CLA	CHA-CBD-CGD-O2D
13	B	810	CLA	CHA-CBD-CGD-O1D
13	B	810	CLA	CHA-CBD-CGD-O2D
13	B	815	CLA	CHA-CBD-CGD-O1D
13	B	815	CLA	CHA-CBD-CGD-O2D
13	B	818	CLA	C1A-C2A-CAA-CBA
13	B	818	CLA	C3A-C2A-CAA-CBA
13	B	821	CLA	C1A-C2A-CAA-CBA
13	B	821	CLA	CHA-CBD-CGD-O1D
13	B	822	CLA	C1A-C2A-CAA-CBA
13	B	822	CLA	CHA-CBD-CGD-O1D
13	B	822	CLA	CHA-CBD-CGD-O2D
13	B	823	CLA	CHA-CBD-CGD-O1D
13	B	823	CLA	CHA-CBD-CGD-O2D
13	B	824	CLA	C1A-C2A-CAA-CBA
13	B	833	CLA	CHA-CBD-CGD-O1D
13	B	833	CLA	CHA-CBD-CGD-O2D
13	B	833	CLA	CAD-CBD-CGD-O1D
13	B	833	CLA	CAD-CBD-CGD-O2D
13	J	101	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	J	101	CLA	CHA-CBD-CGD-O1D
13	J	101	CLA	CHA-CBD-CGD-O2D
13	L	202	CLA	C1A-C2A-CAA-CBA
13	L	202	CLA	C3A-C2A-CAA-CBA
13	L	202	CLA	CHA-CBD-CGD-O2D
13	L	204	CLA	C2-C3-C5-C6
13	L	204	CLA	C4-C3-C5-C6
16	A	847	BCR	C20-C21-C22-C23
16	A	847	BCR	C20-C21-C22-C37
16	A	847	BCR	C23-C24-C25-C30
16	A	848	BCR	C1-C6-C7-C8
16	A	848	BCR	C6-C7-C8-C9
16	A	848	BCR	C7-C8-C9-C10
16	A	848	BCR	C7-C8-C9-C34
16	A	848	BCR	C21-C22-C23-C24
16	A	849	BCR	C1-C6-C7-C8
16	A	849	BCR	C7-C8-C9-C34
16	A	849	BCR	C37-C22-C23-C24
16	A	849	BCR	C23-C24-C25-C30
16	A	850	BCR	C1-C6-C7-C8
16	A	850	BCR	C7-C8-C9-C34
16	A	850	BCR	C11-C12-C13-C35
16	A	850	BCR	C23-C24-C25-C30
16	A	851	BCR	C6-C7-C8-C9
16	A	851	BCR	C11-C12-C13-C35
16	A	851	BCR	C12-C13-C14-C15
16	A	851	BCR	C18-C19-C20-C21
16	A	851	BCR	C20-C21-C22-C23
16	A	851	BCR	C20-C21-C22-C37
16	B	835	BCR	C1-C6-C7-C8
16	B	835	BCR	C23-C24-C25-C30
16	B	836	BCR	C1-C6-C7-C8
16	B	836	BCR	C7-C8-C9-C34
16	B	836	BCR	C16-C17-C18-C36
16	B	836	BCR	C18-C19-C20-C21
16	B	837	BCR	C1-C6-C7-C8
16	B	837	BCR	C7-C8-C9-C34
16	B	837	BCR	C21-C22-C23-C24
16	B	837	BCR	C23-C24-C25-C30
16	F	201	BCR	C1-C6-C7-C8
16	F	201	BCR	C21-C22-C23-C24
16	F	202	BCR	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
16	F	202	BCR	C37-C22-C23-C24
16	I	101	BCR	C1-C6-C7-C8
16	I	101	BCR	C16-C17-C18-C19
16	I	101	BCR	C16-C17-C18-C36
16	J	102	BCR	C1-C6-C7-C8
16	J	102	BCR	C6-C7-C8-C9
16	J	102	BCR	C7-C8-C9-C10
16	J	102	BCR	C7-C8-C9-C34
16	J	102	BCR	C11-C10-C9-C8
16	J	103	BCR	C21-C22-C23-C24
16	J	103	BCR	C37-C22-C23-C24
16	J	104	BCR	C7-C8-C9-C10
16	J	104	BCR	C7-C8-C9-C34
16	J	104	BCR	C37-C22-C23-C24
16	J	104	BCR	C23-C24-C25-C30
16	K	202	BCR	C1-C6-C7-C8
16	K	202	BCR	C7-C8-C9-C10
16	K	202	BCR	C7-C8-C9-C34
16	K	202	BCR	C21-C22-C23-C24
16	K	202	BCR	C37-C22-C23-C24
16	L	201	BCR	C1-C6-C7-C8
16	L	201	BCR	C7-C8-C9-C10
16	L	201	BCR	C20-C21-C22-C37
16	L	205	BCR	C1-C6-C7-C8
16	L	205	BCR	C18-C19-C20-C21
16	L	205	BCR	C37-C22-C23-C24
16	L	205	BCR	C23-C24-C25-C26
16	L	206	BCR	C1-C6-C7-C8
16	L	206	BCR	C11-C12-C13-C14
16	L	206	BCR	C11-C12-C13-C35
16	L	206	BCR	C13-C14-C15-C16
16	L	206	BCR	C17-C18-C19-C20
16	L	206	BCR	C36-C18-C19-C20
16	L	206	BCR	C19-C20-C21-C22
16	L	206	BCR	C20-C21-C22-C37
16	L	206	BCR	C21-C22-C23-C24
16	L	206	BCR	C23-C24-C25-C30
16	M	101	BCR	C7-C8-C9-C34
16	M	101	BCR	C11-C12-C13-C35
16	M	101	BCR	C18-C19-C20-C21
16	M	101	BCR	C20-C21-C22-C37
17	A	853	LHG	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
18	B	838	LMG	C2-C1-O1-C7
18	B	838	LMG	O6-C1-O1-C7
13	A	811	CLA	O1D-CGD-O2D-CED
13	A	810	CLA	CBD-CGD-O2D-CED
13	A	834	CLA	CBD-CGD-O2D-CED
13	B	815	CLA	CBD-CGD-O2D-CED
13	B	821	CLA	CBD-CGD-O2D-CED
13	B	816	CLA	O1A-CGA-O2A-C1
13	A	829	CLA	O1D-CGD-O2D-CED
13	B	802	CLA	O1D-CGD-O2D-CED
13	B	833	CLA	CBD-CGD-O2D-CED
13	A	827	CLA	O1A-CGA-O2A-C1
13	A	835	CLA	O1D-CGD-O2D-CED
13	B	829	CLA	CBD-CGD-O2D-CED
12	A	801	CL0	C3-C5-C6-C7
13	A	807	CLA	C3-C5-C6-C7
13	A	821	CLA	C3-C5-C6-C7
13	A	833	CLA	C3-C5-C6-C7
13	B	807	CLA	C3-C5-C6-C7
13	B	817	CLA	C3-C5-C6-C7
13	B	823	CLA	C3-C5-C6-C7
13	B	825	CLA	C3-C5-C6-C7
13	B	833	CLA	C3-C5-C6-C7
13	A	824	CLA	CBA-CGA-O2A-C1
13	A	827	CLA	CBA-CGA-O2A-C1
13	B	816	CLA	CBA-CGA-O2A-C1
13	B	804	CLA	O1D-CGD-O2D-CED
13	A	812	CLA	O1A-CGA-O2A-C1
13	A	802	CLA	C2A-CAA-CBA-CGA
13	A	808	CLA	C2A-CAA-CBA-CGA
13	A	816	CLA	C2A-CAA-CBA-CGA
13	A	825	CLA	C2A-CAA-CBA-CGA
13	A	832	CLA	C2A-CAA-CBA-CGA
13	B	805	CLA	C2A-CAA-CBA-CGA
13	B	821	CLA	C2A-CAA-CBA-CGA
13	B	833	CLA	C2A-CAA-CBA-CGA
13	A	822	CLA	C3-C5-C6-C7
13	A	841	CLA	C3-C5-C6-C7
13	B	801	CLA	C3-C5-C6-C7
13	B	804	CLA	C3-C5-C6-C7
13	B	808	CLA	C3-C5-C6-C7
13	B	809	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
13	B	813	CLA	C3-C5-C6-C7
14	A	845	PQN	C13-C15-C16-C17
13	A	807	CLA	CBA-CGA-O2A-C1
13	A	809	CLA	CBA-CGA-O2A-C1
13	A	823	CLA	CBA-CGA-O2A-C1
13	A	844	CLA	CBA-CGA-O2A-C1
13	B	813	CLA	CBA-CGA-O2A-C1
13	B	818	CLA	CBA-CGA-O2A-C1
13	A	810	CLA	O1D-CGD-O2D-CED
13	A	821	CLA	O1A-CGA-O2A-C1
13	A	824	CLA	O1A-CGA-O2A-C1
13	A	844	CLA	O1A-CGA-O2A-C1
13	B	829	CLA	CBA-CGA-O2A-C1
16	J	103	BCR	C9-C10-C11-C12
13	A	825	CLA	CBD-CGD-O2D-CED
13	B	819	CLA	CBD-CGD-O2D-CED
13	K	203	CLA	CBD-CGD-O2D-CED
13	A	834	CLA	O1D-CGD-O2D-CED
13	B	810	CLA	C3-C5-C6-C7
13	B	820	CLA	C3-C5-C6-C7
13	A	821	CLA	CBA-CGA-O2A-C1
13	B	801	CLA	CBA-CGA-O2A-C1
13	B	813	CLA	O1A-CGA-O2A-C1
13	A	809	CLA	C3-C5-C6-C7
13	B	803	CLA	C3-C5-C6-C7
13	B	832	CLA	C3-C5-C6-C7
13	A	812	CLA	CBA-CGA-O2A-C1
13	A	807	CLA	O1A-CGA-O2A-C1
13	A	823	CLA	O1A-CGA-O2A-C1
13	B	801	CLA	O1A-CGA-O2A-C1
13	B	829	CLA	O1A-CGA-O2A-C1
18	B	838	LMG	O6-C5-C6-O5
13	A	818	CLA	C4-C3-C5-C6
13	B	801	CLA	C4-C3-C5-C6
13	B	802	CLA	C4-C3-C5-C6
13	B	823	CLA	C4-C3-C5-C6
13	A	818	CLA	C2-C3-C5-C6
13	B	801	CLA	C2-C3-C5-C6
13	B	802	CLA	C2-C3-C5-C6
13	B	823	CLA	C2-C3-C5-C6
13	B	826	CLA	CBD-CGD-O2D-CED
13	A	813	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
13	A	819	CLA	C2A-CAA-CBA-CGA
13	B	803	CLA	C2A-CAA-CBA-CGA
13	A	809	CLA	O1A-CGA-O2A-C1
13	B	818	CLA	O1A-CGA-O2A-C1
13	B	815	CLA	O1D-CGD-O2D-CED
13	B	821	CLA	O1D-CGD-O2D-CED
13	B	825	CLA	CBD-CGD-O2D-CED
13	B	802	CLA	C3-C5-C6-C7
13	A	813	CLA	CBA-CGA-O2A-C1
13	A	820	CLA	CBA-CGA-O2A-C1
13	A	833	CLA	CBA-CGA-O2A-C1
13	A	839	CLA	CBA-CGA-O2A-C1
13	B	833	CLA	CBA-CGA-O2A-C1
18	B	838	LMG	C4-C5-C6-O5
14	A	845	PQN	C15-C16-C17-C18
13	B	807	CLA	C8-C10-C11-C12
13	B	807	CLA	C15-C16-C17-C18
13	B	817	CLA	C5-C6-C7-C8
13	B	825	CLA	C8-C10-C11-C12
13	A	820	CLA	O1A-CGA-O2A-C1
13	A	809	CLA	C11-C12-C13-C14
13	A	812	CLA	C14-C13-C15-C16
13	A	828	CLA	C6-C7-C8-C9
13	A	829	CLA	C11-C10-C8-C9
13	A	831	CLA	C6-C7-C8-C9
13	A	840	CLA	C11-C12-C13-C14
13	A	840	CLA	C14-C13-C15-C16
13	B	804	CLA	C6-C7-C8-C9
13	B	806	CLA	C11-C12-C13-C14
13	B	823	CLA	C11-C12-C13-C14
13	B	833	CLA	C11-C12-C13-C14
13	B	823	CLA	C10-C11-C12-C13
16	A	848	BCR	C37-C22-C23-C24
16	A	850	BCR	C37-C22-C23-C24
16	F	201	BCR	C7-C8-C9-C34
16	F	201	BCR	C37-C22-C23-C24
16	F	202	BCR	C7-C8-C9-C34
16	J	102	BCR	C37-C22-C23-C24
16	J	103	BCR	C7-C8-C9-C34
16	J	103	BCR	C11-C12-C13-C35
16	L	205	BCR	C7-C8-C9-C34
16	A	850	BCR	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
16	A	851	BCR	C21-C22-C23-C24
16	J	102	BCR	C21-C22-C23-C24
16	J	103	BCR	C7-C8-C9-C10
16	J	103	BCR	C11-C12-C13-C14
16	L	205	BCR	C7-C8-C9-C10
13	A	833	CLA	O1A-CGA-O2A-C1
13	B	833	CLA	O1A-CGA-O2A-C1
13	A	831	CLA	C13-C15-C16-C17
13	A	835	CLA	C15-C16-C17-C18
13	B	804	CLA	C10-C11-C12-C13
13	B	809	CLA	C13-C15-C16-C17
13	A	826	CLA	C3-C5-C6-C7
13	A	836	CLA	CBA-CGA-O2A-C1
13	B	802	CLA	C8-C10-C11-C12
13	B	806	CLA	C10-C11-C12-C13
13	L	203	CLA	C15-C16-C17-C18
16	I	101	BCR	C14-C15-C16-C17
13	A	812	CLA	C10-C11-C12-C13
13	A	818	CLA	C8-C10-C11-C12
13	A	822	CLA	C8-C10-C11-C12
13	A	823	CLA	C8-C10-C11-C12
13	A	840	CLA	C8-C10-C11-C12
13	B	801	CLA	C13-C15-C16-C17
13	B	806	CLA	C13-C15-C16-C17
13	B	823	CLA	C15-C16-C17-C18
13	B	833	CLA	C8-C10-C11-C12
18	B	838	LMG	C28-C29-C30-C31
13	A	842	CLA	CBD-CGD-O2D-CED
13	A	820	CLA	C13-C15-C16-C17
13	A	828	CLA	C10-C11-C12-C13
13	A	829	CLA	C13-C15-C16-C17
13	A	841	CLA	C5-C6-C7-C8
13	B	804	CLA	C15-C16-C17-C18
13	B	821	CLA	C13-C15-C16-C17
13	B	825	CLA	C5-C6-C7-C8
13	B	826	CLA	CBA-CGA-O2A-C1
13	B	808	CLA	C13-C15-C16-C17
13	B	825	CLA	C15-C16-C17-C18
13	L	203	CLA	C8-C10-C11-C12
13	A	830	CLA	C5-C6-C7-C8
13	A	809	CLA	C11-C12-C13-C15
13	A	840	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
13	B	806	CLA	C12-C13-C15-C16
13	A	813	CLA	O1A-CGA-O2A-C1
13	B	817	CLA	C2A-CAA-CBA-CGA
13	B	807	CLA	C5-C6-C7-C8
16	J	103	BCR	C22-C23-C24-C25
13	A	840	CLA	C10-C11-C12-C13
13	B	801	CLA	C5-C6-C7-C8
16	A	847	BCR	C18-C19-C20-C21
16	A	850	BCR	C10-C11-C12-C13
16	A	850	BCR	C18-C19-C20-C21
16	A	851	BCR	C10-C11-C12-C13
16	J	103	BCR	C10-C11-C12-C13
16	J	104	BCR	C18-C19-C20-C21
13	A	820	CLA	C3-C5-C6-C7
13	A	827	CLA	C5-C6-C7-C8
13	A	840	CLA	C13-C15-C16-C17
13	B	813	CLA	C10-C11-C12-C13
13	B	820	CLA	C10-C11-C12-C13
13	B	825	CLA	C10-C11-C12-C13
13	A	836	CLA	O1A-CGA-O2A-C1
13	A	839	CLA	O1A-CGA-O2A-C1
13	A	829	CLA	C10-C11-C12-C13
13	A	824	CLA	CBD-CGD-O2D-CED
13	B	832	CLA	C8-C10-C11-C12
13	A	834	CLA	C3-C5-C6-C7
13	A	806	CLA	CBA-CGA-O2A-C1
13	B	802	CLA	C5-C6-C7-C8
13	B	826	CLA	O1A-CGA-O2A-C1
17	A	853	LHG	C1-C2-C3-O3
13	A	844	CLA	C4-C3-C5-C6
13	B	804	CLA	C8-C10-C11-C12
13	B	823	CLA	CBD-CGD-O2D-CED
13	A	809	CLA	C2A-CAA-CBA-CGA
13	A	838	CLA	C2A-CAA-CBA-CGA
13	B	804	CLA	C2A-CAA-CBA-CGA
13	B	832	CLA	C2A-CAA-CBA-CGA
13	A	819	CLA	C3-C5-C6-C7
13	A	817	CLA	CBA-CGA-O2A-C1
13	A	835	CLA	CBA-CGA-O2A-C1
16	A	851	BCR	C13-C14-C15-C16
13	A	807	CLA	C5-C6-C7-C8
16	A	850	BCR	C20-C21-C22-C37

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Mol	Chain	Res	Type	Atoms
16	A	851	BCR	C35-C13-C14-C15
16	B	835	BCR	C16-C17-C18-C36
16	F	201	BCR	C35-C13-C14-C15
16	F	201	BCR	C16-C17-C18-C36
16	F	202	BCR	C16-C17-C18-C36
16	J	102	BCR	C11-C10-C9-C34
16	L	205	BCR	C20-C21-C22-C37
16	L	206	BCR	C16-C17-C18-C36
18	B	838	LMG	C11-C12-C13-C14
13	B	833	CLA	O1D-CGD-O2D-CED
13	B	806	CLA	CBA-CGA-O2A-C1
17	A	852	LHG	C27-C28-C29-C30
13	B	829	CLA	O1D-CGD-O2D-CED
17	A	852	LHG	O9-C7-O7-C5
13	A	809	CLA	C8-C10-C11-C12
16	A	847	BCR	C16-C17-C18-C19
16	A	851	BCR	C11-C10-C9-C8
16	B	835	BCR	C11-C10-C9-C8
16	B	837	BCR	C11-C10-C9-C8
16	F	202	BCR	C16-C17-C18-C19
16	J	103	BCR	C11-C10-C9-C8
16	L	201	BCR	C11-C10-C9-C8
16	L	206	BCR	C20-C21-C22-C23
16	M	101	BCR	C11-C10-C9-C8
17	A	853	LHG	C9-C10-C11-C12
13	A	817	CLA	O1A-CGA-O2A-C1
14	B	834	PQN	C26-C27-C28-C29
17	A	852	LHG	C32-C33-C34-C35
18	B	838	LMG	C29-C30-C31-C32
13	A	822	CLA	C6-C7-C8-C9
13	A	840	CLA	C6-C7-C8-C9
13	L	203	CLA	C6-C7-C8-C9
13	B	828	CLA	C2A-CAA-CBA-CGA
13	A	806	CLA	O1A-CGA-O2A-C1
16	A	851	BCR	C37-C22-C23-C24
16	L	201	BCR	C7-C8-C9-C34
16	L	206	BCR	C37-C22-C23-C24
18	B	838	LMG	C17-C18-C19-C20
17	A	853	LHG	O1-C1-C2-C3
16	A	849	BCR	C21-C22-C23-C24
16	A	851	BCR	C11-C12-C13-C14
16	F	201	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
16	F	202	BCR	C7-C8-C9-C10
16	L	205	BCR	C21-C22-C23-C24
16	M	101	BCR	C21-C22-C23-C24
17	A	853	LHG	C7-C8-C9-C10
13	B	809	CLA	C8-C10-C11-C12
13	B	811	CLA	C10-C11-C12-C13
13	A	804	CLA	C3A-C2A-CAA-CBA
13	A	807	CLA	C3A-C2A-CAA-CBA
13	A	814	CLA	C3A-C2A-CAA-CBA
13	A	815	CLA	C3A-C2A-CAA-CBA
13	A	819	CLA	C3A-C2A-CAA-CBA
13	A	833	CLA	C3A-C2A-CAA-CBA
13	A	838	CLA	C3A-C2A-CAA-CBA
13	B	813	CLA	C3A-C2A-CAA-CBA
13	B	822	CLA	C3A-C2A-CAA-CBA
13	B	826	CLA	C3A-C2A-CAA-CBA
13	J	101	CLA	C3A-C2A-CAA-CBA
17	A	852	LHG	C24-C25-C26-C27
13	B	819	CLA	O1D-CGD-O2D-CED
13	A	835	CLA	O1A-CGA-O2A-C1
18	B	838	LMG	C16-C17-C18-C19
13	B	822	CLA	CBD-CGD-O2D-CED
13	A	814	CLA	C2C-C3C-CAC-CBC
13	B	822	CLA	C4-C3-C5-C6
13	A	807	CLA	C2-C3-C5-C6
13	A	837	CLA	C2A-CAA-CBA-CGA
13	B	801	CLA	C2A-CAA-CBA-CGA
13	B	806	CLA	O1A-CGA-O2A-C1
13	A	828	CLA	C3-C5-C6-C7
18	B	838	LMG	C33-C34-C35-C36
13	A	844	CLA	C2-C1-O2A-CGA
13	A	806	CLA	C10-C11-C12-C13
13	A	826	CLA	C15-C16-C17-C18
16	A	847	BCR	C1-C6-C7-C8
16	A	847	BCR	C5-C6-C7-C8
16	A	847	BCR	C23-C24-C25-C26
16	A	848	BCR	C5-C6-C7-C8
16	A	849	BCR	C5-C6-C7-C8
16	A	849	BCR	C23-C24-C25-C26
16	A	850	BCR	C5-C6-C7-C8
16	A	850	BCR	C23-C24-C25-C26
16	A	851	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
16	A	851	BCR	C23-C24-C25-C30
16	B	835	BCR	C5-C6-C7-C8
16	B	835	BCR	C23-C24-C25-C26
16	B	836	BCR	C5-C6-C7-C8
16	B	836	BCR	C23-C24-C25-C26
16	B	836	BCR	C23-C24-C25-C30
16	B	837	BCR	C5-C6-C7-C8
16	B	837	BCR	C23-C24-C25-C26
16	F	201	BCR	C5-C6-C7-C8
16	F	202	BCR	C1-C6-C7-C8
16	F	202	BCR	C5-C6-C7-C8
16	I	101	BCR	C5-C6-C7-C8
16	J	102	BCR	C5-C6-C7-C8
16	J	103	BCR	C1-C6-C7-C8
16	J	103	BCR	C5-C6-C7-C8
16	J	103	BCR	C23-C24-C25-C26
16	J	103	BCR	C23-C24-C25-C30
16	J	104	BCR	C23-C24-C25-C26
16	K	202	BCR	C5-C6-C7-C8
16	L	201	BCR	C5-C6-C7-C8
16	L	201	BCR	C23-C24-C25-C26
16	L	205	BCR	C5-C6-C7-C8
16	L	205	BCR	C23-C24-C25-C30
16	L	206	BCR	C5-C6-C7-C8
16	L	206	BCR	C23-C24-C25-C26
16	M	101	BCR	C1-C6-C7-C8
16	M	101	BCR	C5-C6-C7-C8
16	M	101	BCR	C23-C24-C25-C26
16	M	101	BCR	C23-C24-C25-C30
13	A	832	CLA	CBA-CGA-O2A-C1
13	A	834	CLA	CBA-CGA-O2A-C1
13	B	814	CLA	CBA-CGA-O2A-C1
17	A	853	LHG	C24-C23-O8-C6
13	B	804	CLA	C5-C6-C7-C8
17	A	852	LHG	C8-C7-O7-C5
13	A	807	CLA	C4-C3-C5-C6
13	A	812	CLA	C12-C13-C15-C16
13	A	823	CLA	C6-C7-C8-C10
13	A	835	CLA	C12-C13-C15-C16
13	A	844	CLA	C2-C3-C5-C6
13	B	807	CLA	C12-C13-C15-C16
13	B	809	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
13	B	813	CLA	C11-C10-C8-C7
13	B	822	CLA	C2-C3-C5-C6
13	A	826	CLA	C10-C11-C12-C13
16	A	850	BCR	C13-C14-C15-C16
13	J	101	CLA	CBD-CGD-O2D-CED
14	B	834	PQN	C26-C27-C28-C30
13	A	835	CLA	C5-C6-C7-C8
17	A	852	LHG	C29-C30-C31-C32
13	B	819	CLA	CBA-CGA-O2A-C1
13	A	822	CLA	C5-C6-C7-C8
16	A	849	BCR	C6-C7-C8-C9
16	B	837	BCR	C22-C23-C24-C25
16	L	206	BCR	C22-C23-C24-C25
13	L	204	CLA	CBA-CGA-O2A-C1
13	A	843	CLA	C16-C17-C18-C20
13	A	809	CLA	C5-C6-C7-C8
16	B	836	BCR	C10-C11-C12-C13
16	B	837	BCR	C18-C19-C20-C21
13	B	812	CLA	CBD-CGD-O2D-CED
18	B	838	LMG	C38-C39-C40-C41
14	B	834	PQN	C15-C16-C17-C18
13	B	809	CLA	C4-C3-C5-C6
13	B	811	CLA	C2-C3-C5-C6
13	A	835	CLA	C14-C13-C15-C16
13	B	806	CLA	C14-C13-C15-C16
13	B	807	CLA	C14-C13-C15-C16
13	B	813	CLA	C11-C10-C8-C9
13	B	832	CLA	C14-C13-C15-C16
13	K	203	CLA	O1D-CGD-O2D-CED
16	A	847	BCR	C7-C8-C9-C34
16	M	101	BCR	C37-C22-C23-C24
17	A	852	LHG	C30-C31-C32-C33
16	B	836	BCR	C7-C8-C9-C10
16	I	101	BCR	C7-C8-C9-C10
13	A	832	CLA	O1A-CGA-O2A-C1
13	A	834	CLA	O1A-CGA-O2A-C1
13	B	814	CLA	O1A-CGA-O2A-C1
13	A	804	CLA	C1A-C2A-CAA-CBA
13	A	806	CLA	C1A-C2A-CAA-CBA
13	A	809	CLA	C1A-C2A-CAA-CBA
13	A	811	CLA	C1A-C2A-CAA-CBA
13	A	812	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	A	814	CLA	C1A-C2A-CAA-CBA
13	A	822	CLA	C1A-C2A-CAA-CBA
13	A	832	CLA	C1A-C2A-CAA-CBA
13	A	833	CLA	C1A-C2A-CAA-CBA
13	A	835	CLA	C1A-C2A-CAA-CBA
13	A	836	CLA	C1A-C2A-CAA-CBA
13	A	838	CLA	C1A-C2A-CAA-CBA
13	A	840	CLA	C1A-C2A-CAA-CBA
13	B	806	CLA	C1A-C2A-CAA-CBA
13	B	813	CLA	C1A-C2A-CAA-CBA
13	B	823	CLA	C1A-C2A-CAA-CBA
13	B	825	CLA	C1A-C2A-CAA-CBA
13	B	826	CLA	C1A-C2A-CAA-CBA
13	B	831	CLA	C1A-C2A-CAA-CBA
13	K	203	CLA	C1A-C2A-CAA-CBA
13	L	203	CLA	C1A-C2A-CAA-CBA
13	A	840	CLA	C5-C6-C7-C8
13	B	825	CLA	O1D-CGD-O2D-CED
13	B	807	CLA	C13-C15-C16-C17
13	B	820	CLA	C15-C16-C17-C18
18	B	838	LMG	C39-C40-C41-C42
13	A	819	CLA	CBA-CGA-O2A-C1
13	A	806	CLA	C4-C3-C5-C6
12	A	801	CL0	C13-C15-C16-C17
18	B	838	LMG	C41-C42-C43-C44
18	B	838	LMG	O1-C7-C8-C9
13	B	809	CLA	C5-C6-C7-C8
18	B	838	LMG	C30-C31-C32-C33
13	B	824	CLA	CAA-CBA-CGA-O2A
13	B	817	CLA	C11-C12-C13-C14
13	L	204	CLA	O1A-CGA-O2A-C1
13	B	813	CLA	C8-C10-C11-C12
16	A	849	BCR	C11-C10-C9-C34
16	A	851	BCR	C16-C17-C18-C36
16	B	835	BCR	C11-C10-C9-C34
16	F	202	BCR	C35-C13-C14-C15
16	J	103	BCR	C11-C10-C9-C34
13	B	811	CLA	C4-C3-C5-C6
13	A	842	CLA	CBA-CGA-O2A-C1
13	B	817	CLA	CBD-CGD-O2D-CED
13	B	823	CLA	C5-C6-C7-C8
14	B	834	PQN	C25-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
13	B	822	CLA	C15-C16-C17-C18
17	A	852	LHG	C31-C32-C33-C34
13	A	828	CLA	CBA-CGA-O2A-C1
13	B	821	CLA	CBA-CGA-O2A-C1
13	B	823	CLA	CBA-CGA-O2A-C1
13	L	203	CLA	CBA-CGA-O2A-C1
13	A	842	CLA	O1D-CGD-O2D-CED
13	B	802	CLA	C16-C17-C18-C19
13	A	825	CLA	O1D-CGD-O2D-CED
16	F	201	BCR	C11-C10-C9-C8
16	L	206	BCR	C16-C17-C18-C19
17	A	852	LHG	C18-C19-C20-C21
17	A	852	LHG	O7-C5-C6-O8
13	A	819	CLA	O1A-CGA-O2A-C1
13	A	828	CLA	O1A-CGA-O2A-C1
13	B	806	CLA	C4-C3-C5-C6
13	A	814	CLA	C4C-C3C-CAC-CBC
13	A	806	CLA	C2-C3-C5-C6
13	A	812	CLA	C11-C12-C13-C15
13	A	820	CLA	C11-C12-C13-C15
13	A	822	CLA	C12-C13-C15-C16
13	A	830	CLA	C12-C13-C15-C16
13	B	806	CLA	C2-C3-C5-C6
13	B	807	CLA	C11-C10-C8-C7
13	B	820	CLA	C12-C13-C15-C16
13	B	823	CLA	C11-C12-C13-C15
13	A	812	CLA	C11-C12-C13-C14
13	A	822	CLA	C14-C13-C15-C16
13	A	823	CLA	C6-C7-C8-C9
13	A	830	CLA	C14-C13-C15-C16
13	A	834	CLA	C11-C12-C13-C14
13	A	841	CLA	C11-C10-C8-C9
13	B	820	CLA	C14-C13-C15-C16
13	B	826	CLA	C6-C7-C8-C9
14	B	834	PQN	C21-C22-C23-C24
13	A	843	CLA	C16-C17-C18-C19
13	B	830	CLA	C3-C5-C6-C7
13	B	805	CLA	CBA-CGA-O2A-C1
13	B	817	CLA	CBA-CGA-O2A-C1
13	B	802	CLA	C16-C17-C18-C20
13	A	809	CLA	C10-C11-C12-C13
13	A	826	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
13	B	826	CLA	O1D-CGD-O2D-CED
13	A	821	CLA	C10-C11-C12-C13
13	A	819	CLA	CAA-CBA-CGA-O2A
18	B	838	LMG	C35-C36-C37-C38
13	A	837	CLA	C3A-C2A-CAA-CBA
13	A	843	CLA	C3A-C2A-CAA-CBA
13	B	816	CLA	C3A-C2A-CAA-CBA
13	B	821	CLA	C3A-C2A-CAA-CBA
17	A	852	LHG	C26-C27-C28-C29
13	A	826	CLA	C8-C10-C11-C12
13	B	802	CLA	C15-C16-C17-C18
13	A	842	CLA	O1A-CGA-O2A-C1
18	B	838	LMG	C21-C22-C23-C24
13	B	821	CLA	CAA-CBA-CGA-O2A
13	B	821	CLA	O1A-CGA-O2A-C1
13	B	821	CLA	C4-C3-C5-C6
17	A	853	LHG	C4-O6-P-O3
13	B	823	CLA	O1A-CGA-O2A-C1
13	L	203	CLA	O1A-CGA-O2A-C1
14	B	834	PQN	C13-C15-C16-C17
13	A	824	CLA	O1D-CGD-O2D-CED
13	B	806	CLA	C15-C16-C17-C18
13	A	832	CLA	C2-C1-O2A-CGA
13	A	840	CLA	C2-C1-O2A-CGA
13	B	813	CLA	C2-C1-O2A-CGA
13	B	826	CLA	C2-C1-O2A-CGA
13	A	809	CLA	C6-C7-C8-C9
13	A	822	CLA	C11-C10-C8-C9
13	A	831	CLA	C14-C13-C15-C16
13	B	801	CLA	C14-C13-C15-C16
13	B	811	CLA	C11-C12-C13-C14
13	A	836	CLA	C6-C7-C8-C9
13	B	824	CLA	CBD-CGD-O2D-CED
13	A	831	CLA	C15-C16-C17-C18
13	A	808	CLA	C4-C3-C5-C6
13	A	814	CLA	C2A-CAA-CBA-CGA
13	A	823	CLA	C3-C5-C6-C7
16	F	201	BCR	C23-C24-C25-C26
16	F	202	BCR	C23-C24-C25-C26
16	J	102	BCR	C23-C24-C25-C26
16	L	201	BCR	C23-C24-C25-C30
14	B	834	PQN	C18-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
17	A	852	LHG	C28-C29-C30-C31
16	M	101	BCR	C7-C8-C9-C10
13	A	833	CLA	C5-C6-C7-C8
13	B	805	CLA	C6-C7-C8-C9
13	B	805	CLA	C3-C5-C6-C7
13	B	833	CLA	C10-C11-C12-C13
14	B	834	PQN	C20-C21-C22-C23
13	A	809	CLA	C6-C7-C8-C10
13	A	809	CLA	C12-C13-C15-C16
13	A	826	CLA	C12-C13-C15-C16
13	A	828	CLA	C11-C10-C8-C7
13	A	829	CLA	C11-C10-C8-C7
13	A	831	CLA	C12-C13-C15-C16
13	A	834	CLA	C11-C12-C13-C15
13	A	841	CLA	C11-C10-C8-C7
13	B	802	CLA	C11-C10-C8-C7
13	B	803	CLA	C6-C7-C8-C10
13	B	803	CLA	C12-C13-C15-C16
13	B	811	CLA	C11-C12-C13-C15
13	B	821	CLA	C2-C3-C5-C6
13	B	826	CLA	C6-C7-C8-C10
13	L	203	CLA	C12-C13-C15-C16
18	B	838	LMG	C13-C14-C15-C16
13	B	813	CLA	C5-C6-C7-C8
16	L	205	BCR	C15-C16-C17-C18
13	A	837	CLA	CBD-CGD-O2D-CED
13	A	826	CLA	C2A-CAA-CBA-CGA
16	A	849	BCR	C16-C17-C18-C36
16	B	836	BCR	C35-C13-C14-C15
16	J	103	BCR	C35-C13-C14-C15
13	A	838	CLA	CBA-CGA-O2A-C1
13	B	822	CLA	CBA-CGA-O2A-C1
13	A	803	CLA	CAD-CBD-CGD-O2D
13	A	808	CLA	CAD-CBD-CGD-O2D
13	A	818	CLA	CAD-CBD-CGD-O2D
13	A	821	CLA	CAD-CBD-CGD-O2D
13	A	824	CLA	CAD-CBD-CGD-O2D
13	A	834	CLA	CAD-CBD-CGD-O2D
13	A	836	CLA	CAD-CBD-CGD-O2D
13	B	830	CLA	CAD-CBD-CGD-O2D
13	B	831	CLA	CAD-CBD-CGD-O2D
13	B	832	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	B	823	CLA	O1D-CGD-O2D-CED
16	A	847	BCR	C22-C23-C24-C25
16	M	101	BCR	C22-C23-C24-C25
13	A	830	CLA	CBA-CGA-O2A-C1
13	B	813	CLA	C4-C3-C5-C6
13	B	830	CLA	C4-C3-C5-C6
13	B	813	CLA	C2-C3-C5-C6
13	A	840	CLA	CBD-CGD-O2D-CED
13	A	843	CLA	CBA-CGA-O2A-C1
13	A	836	CLA	C5-C6-C7-C8
13	B	811	CLA	CBD-CGD-O2D-CED
13	A	830	CLA	O1A-CGA-O2A-C1
13	A	806	CLA	CHA-CBD-CGD-O1D
13	A	806	CLA	CHA-CBD-CGD-O2D
13	A	811	CLA	CHA-CBD-CGD-O1D
13	A	811	CLA	CHA-CBD-CGD-O2D
13	A	814	CLA	CHA-CBD-CGD-O1D
13	A	814	CLA	CHA-CBD-CGD-O2D
13	A	815	CLA	CHA-CBD-CGD-O1D
13	A	815	CLA	CHA-CBD-CGD-O2D
13	A	816	CLA	CHA-CBD-CGD-O1D
13	A	823	CLA	CHA-CBD-CGD-O1D
13	A	826	CLA	CHA-CBD-CGD-O1D
13	A	826	CLA	CHA-CBD-CGD-O2D
13	A	829	CLA	CHA-CBD-CGD-O1D
13	A	831	CLA	CHA-CBD-CGD-O1D
13	A	844	CLA	CHA-CBD-CGD-O1D
13	A	844	CLA	CHA-CBD-CGD-O2D
13	B	803	CLA	CHA-CBD-CGD-O1D
13	B	813	CLA	CHA-CBD-CGD-O1D
13	B	819	CLA	CHA-CBD-CGD-O1D
13	B	819	CLA	CHA-CBD-CGD-O2D
13	B	820	CLA	CHA-CBD-CGD-O1D
13	B	826	CLA	CHA-CBD-CGD-O1D
13	L	202	CLA	CHA-CBD-CGD-O1D
13	B	805	CLA	O1A-CGA-O2A-C1
13	B	817	CLA	O1A-CGA-O2A-C1
16	M	101	BCR	C20-C21-C22-C23
13	A	802	CLA	C10-C11-C12-C13
13	A	838	CLA	O1A-CGA-O2A-C1
18	B	838	LMG	O10-C28-O8-C9
13	A	822	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
13	B	822	CLA	O1D-CGD-O2D-CED
13	B	802	CLA	C11-C10-C8-C9
13	L	203	CLA	C14-C13-C15-C16
13	A	831	CLA	C5-C6-C7-C8
13	A	843	CLA	O1A-CGA-O2A-C1
16	B	835	BCR	C37-C22-C23-C24
16	I	101	BCR	C7-C8-C9-C34
16	J	104	BCR	C21-C22-C23-C24
13	A	816	CLA	C1A-C2A-CAA-CBA
13	B	814	CLA	C1A-C2A-CAA-CBA
13	B	828	CLA	C1A-C2A-CAA-CBA
13	B	833	CLA	C1A-C2A-CAA-CBA
13	B	817	CLA	O1D-CGD-O2D-CED
13	A	821	CLA	C4-C3-C5-C6
13	A	826	CLA	C4-C3-C5-C6
13	B	805	CLA	C4-C3-C5-C6
17	A	852	LHG	C3-O3-P-O4
17	A	853	LHG	C3-O3-P-O4
17	A	853	LHG	C4-O6-P-O5
13	B	819	CLA	O1A-CGA-O2A-C1
13	A	806	CLA	C5-C6-C7-C8
13	B	811	CLA	C8-C10-C11-C12
13	L	203	CLA	C16-C17-C18-C19
13	A	806	CLA	CAD-CBD-CGD-O1D
13	A	814	CLA	CAD-CBD-CGD-O1D
13	A	815	CLA	CAD-CBD-CGD-O1D
13	A	816	CLA	CAD-CBD-CGD-O1D
13	A	823	CLA	CAD-CBD-CGD-O1D
13	A	826	CLA	CAD-CBD-CGD-O1D
13	A	839	CLA	CAD-CBD-CGD-O1D
13	A	844	CLA	CAD-CBD-CGD-O1D
13	B	813	CLA	CAD-CBD-CGD-O1D
13	B	814	CLA	CAD-CBD-CGD-O1D
13	B	820	CLA	CAD-CBD-CGD-O1D
13	J	101	CLA	CAD-CBD-CGD-O1D
13	A	802	CLA	C3A-C2A-CAA-CBA
13	A	807	CLA	C12-C13-C15-C16
13	A	820	CLA	C11-C10-C8-C7
13	A	834	CLA	C11-C10-C8-C7
13	A	840	CLA	C12-C13-C15-C16
13	A	843	CLA	C11-C10-C8-C7
13	B	806	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
14	B	834	PQN	C21-C22-C23-C25
13	A	812	CLA	C2A-CAA-CBA-CGA
13	A	830	CLA	C8-C10-C11-C12
13	A	818	CLA	O1A-CGA-O2A-C1
13	A	830	CLA	C4-C3-C5-C6
13	A	818	CLA	CBA-CGA-O2A-C1
18	B	838	LMG	C37-C38-C39-C40
12	A	801	CL0	CAA-CBA-CGA-O2A
13	A	820	CLA	C11-C12-C13-C14
13	A	826	CLA	C14-C13-C15-C16
13	A	828	CLA	C11-C10-C8-C9
13	A	834	CLA	C11-C10-C8-C9
13	B	803	CLA	C6-C7-C8-C9
13	B	803	CLA	C14-C13-C15-C16
13	B	832	CLA	O1A-CGA-O2A-C1
13	L	203	CLA	C16-C17-C18-C20
13	A	806	CLA	CAA-CBA-CGA-O2A
13	A	829	CLA	C5-C6-C7-C8
13	A	841	CLA	C4-C3-C5-C6
13	A	822	CLA	C2-C3-C5-C6
13	B	817	CLA	C8-C10-C11-C12
13	B	824	CLA	C1-C2-C3-C4
13	A	803	CLA	C2A-CAA-CBA-CGA
13	B	832	CLA	CBA-CGA-O2A-C1
13	A	841	CLA	C2-C1-O2A-CGA
13	B	802	CLA	C2-C1-O2A-CGA
13	B	808	CLA	C2-C1-O2A-CGA
13	B	822	CLA	C2-C1-O2A-CGA
13	B	822	CLA	O1A-CGA-O2A-C1
13	B	804	CLA	C13-C15-C16-C17
16	A	851	BCR	C5-C6-C7-C8
16	F	201	BCR	C23-C24-C25-C30
16	J	102	BCR	C23-C24-C25-C30
16	J	104	BCR	C1-C6-C7-C8
16	J	104	BCR	C5-C6-C7-C8
13	A	821	CLA	C2-C3-C5-C6
13	A	840	CLA	O1D-CGD-O2D-CED
13	B	824	CLA	C2A-CAA-CBA-CGA
13	B	825	CLA	CAA-CBA-CGA-O2A
18	B	838	LMG	O1-C7-C8-O7
17	A	852	LHG	C3-O3-P-O6
17	A	853	LHG	C3-O3-P-O6

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Mol	Chain	Res	Type	Atoms
13	B	824	CLA	O1D-CGD-O2D-CED
13	B	830	CLA	C2-C3-C5-C6
13	B	832	CLA	C12-C13-C15-C16
17	A	852	LHG	C10-C11-C12-C13
13	A	809	CLA	C14-C13-C15-C16
18	B	838	LMG	C18-C19-C20-C21
13	L	204	CLA	C3-C5-C6-C7
13	L	203	CLA	C13-C15-C16-C17
13	A	829	CLA	CBA-CGA-O2A-C1
13	B	817	CLA	CAA-CBA-CGA-O2A
13	A	834	CLA	C2A-CAA-CBA-CGA
13	B	816	CLA	C2A-CAA-CBA-CGA
16	A	851	BCR	C15-C16-C17-C18
13	B	803	CLA	C15-C16-C17-C18
13	B	808	CLA	C4-C3-C5-C6
13	A	837	CLA	O1D-CGD-O2D-CED
13	A	818	CLA	C2-C1-O2A-CGA
13	A	834	CLA	C2-C1-O2A-CGA
13	A	836	CLA	C2-C1-O2A-CGA
13	B	824	CLA	C2-C1-O2A-CGA
13	B	830	CLA	C2-C1-O2A-CGA
13	B	811	CLA	C13-C15-C16-C17
13	B	824	CLA	C3A-C2A-CAA-CBA
13	B	826	CLA	CAA-CBA-CGA-O2A
13	B	833	CLA	C4-C3-C5-C6
13	A	826	CLA	C2-C3-C5-C6
16	A	850	BCR	C35-C13-C14-C15
16	A	851	BCR	C11-C10-C9-C34
16	B	835	BCR	C20-C21-C22-C37
17	A	852	LHG	C34-C35-C36-C37
13	A	814	CLA	CAA-CBA-CGA-O1A
13	B	820	CLA	C4-C3-C5-C6
13	A	831	CLA	C1A-C2A-CAA-CBA
13	A	843	CLA	C1A-C2A-CAA-CBA
13	B	816	CLA	C1A-C2A-CAA-CBA
13	B	829	CLA	C1A-C2A-CAA-CBA
13	B	801	CLA	C12-C13-C15-C16
13	B	804	CLA	C6-C7-C8-C10
13	B	810	CLA	C11-C10-C8-C7
13	B	821	CLA	C6-C7-C8-C10
18	B	838	LMG	C14-C15-C16-C17
13	A	808	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
13	B	824	CLA	CAA-CBA-CGA-O1A
13	A	830	CLA	C16-C17-C18-C19
13	A	839	CLA	C5-C6-C7-C8
13	B	825	CLA	C13-C15-C16-C17
13	B	810	CLA	C16-C17-C18-C20
13	A	835	CLA	C4-C3-C5-C6
13	B	810	CLA	C4-C3-C5-C6
18	B	838	LMG	C31-C32-C33-C34
13	B	832	CLA	C10-C11-C12-C13
16	B	835	BCR	C20-C21-C22-C23
16	A	848	BCR	C19-C20-C21-C22
16	F	201	BCR	C6-C7-C8-C9
16	K	202	BCR	C22-C23-C24-C25
13	B	811	CLA	C5-C6-C7-C8
13	B	811	CLA	O1D-CGD-O2D-CED
13	A	810	CLA	CAA-CBA-CGA-O2A
13	A	827	CLA	C4-C3-C5-C6
13	A	834	CLA	C4-C3-C5-C6
13	A	827	CLA	C2-C1-O2A-CGA
13	B	817	CLA	C2-C1-O2A-CGA
13	B	823	CLA	C2-C1-O2A-CGA
13	A	830	CLA	C2-C3-C5-C6
13	B	808	CLA	C2-C3-C5-C6
16	J	102	BCR	C18-C19-C20-C21
13	A	814	CLA	CAA-CBA-CGA-O2A
13	B	811	CLA	C6-C7-C8-C9
13	A	829	CLA	O1A-CGA-O2A-C1
13	B	826	CLA	C5-C6-C7-C8
13	A	808	CLA	CBA-CGA-O2A-C1
16	A	848	BCR	C23-C24-C25-C30
16	A	851	BCR	C1-C6-C7-C8
16	F	202	BCR	C23-C24-C25-C30
17	A	852	LHG	C4-C5-C6-O8
17	A	853	LHG	O10-C23-O8-C6
12	A	801	CL0	C4-C3-C5-C6
13	A	802	CLA	C4-C3-C5-C6
13	A	836	CLA	C4-C3-C5-C6
16	A	850	BCR	C11-C12-C13-C14
16	J	102	BCR	C11-C12-C13-C14
13	A	841	CLA	C2-C3-C5-C6
13	A	811	CLA	CAA-CBA-CGA-O2A
13	B	825	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
13	A	810	CLA	CAA-CBA-CGA-O1A
13	B	812	CLA	O1D-CGD-O2D-CED
13	K	201	CLA	C2A-CAA-CBA-CGA
13	B	806	CLA	CAA-CBA-CGA-O2A
13	A	828	CLA	C4-C3-C5-C6
13	A	839	CLA	C4-C3-C5-C6
12	A	801	CL0	C2-C3-C5-C6
13	A	834	CLA	C2-C3-C5-C6
13	B	833	CLA	C2-C3-C5-C6
17	A	853	LHG	O1-C1-C2-O2
13	B	822	CLA	C3-C5-C6-C7
13	B	825	CLA	CBA-CGA-O2A-C1
13	A	807	CLA	C15-C16-C17-C18
13	B	821	CLA	C10-C11-C12-C13
13	A	841	CLA	CAA-CBA-CGA-O2A
13	B	813	CLA	CAA-CBA-CGA-O2A
16	J	103	BCR	C16-C17-C18-C36
13	A	819	CLA	CAA-CBA-CGA-O1A
13	A	831	CLA	C4-C3-C5-C6
13	A	823	CLA	C15-C16-C17-C18
13	A	802	CLA	C2-C3-C5-C6
13	A	827	CLA	C2-C3-C5-C6
13	B	805	CLA	C2-C3-C5-C6
13	B	820	CLA	C2-C3-C5-C6
13	B	810	CLA	CAA-CBA-CGA-O2A
13	A	807	CLA	C14-C13-C15-C16
13	A	820	CLA	C11-C10-C8-C9
13	A	808	CLA	C3A-C2A-CAA-CBA
13	B	803	CLA	C3A-C2A-CAA-CBA
13	B	829	CLA	C3A-C2A-CAA-CBA
13	A	812	CLA	CAD-CBD-CGD-O2D
13	A	817	CLA	CAD-CBD-CGD-O2D
13	A	827	CLA	CAD-CBD-CGD-O2D
13	A	828	CLA	CAD-CBD-CGD-O2D
13	A	832	CLA	CAD-CBD-CGD-O2D
13	A	843	CLA	CAD-CBD-CGD-O2D
13	L	203	CLA	C3-C5-C6-C7
13	A	843	CLA	CAA-CBA-CGA-O2A
13	B	804	CLA	CAA-CBA-CGA-O2A
16	F	202	BCR	C6-C7-C8-C9
13	F	203	CLA	CAA-CBA-CGA-O2A
13	A	835	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
13	B	810	CLA	C2-C3-C5-C6
13	A	818	CLA	CAA-CBA-CGA-O2A
13	B	821	CLA	CAA-CBA-CGA-O1A
13	A	824	CLA	CAA-CBA-CGA-O2A
18	B	838	LMG	C34-C35-C36-C37
13	A	840	CLA	O2A-C1-C2-C3
13	A	804	CLA	CAA-CBA-CGA-O2A
13	A	811	CLA	CAA-CBA-CGA-O1A
13	A	809	CLA	CHA-CBD-CGD-O2D
13	A	816	CLA	CHA-CBD-CGD-O2D
13	A	823	CLA	CHA-CBD-CGD-O2D
13	A	829	CLA	CHA-CBD-CGD-O2D
13	A	830	CLA	CHA-CBD-CGD-O1D
13	A	830	CLA	CHA-CBD-CGD-O2D
13	A	835	CLA	CHA-CBD-CGD-O1D
13	A	835	CLA	CHA-CBD-CGD-O2D
13	B	803	CLA	CHA-CBD-CGD-O2D
13	B	813	CLA	CHA-CBD-CGD-O2D
13	B	814	CLA	CHA-CBD-CGD-O1D
13	B	814	CLA	CHA-CBD-CGD-O2D
13	B	820	CLA	CHA-CBD-CGD-O2D
13	B	821	CLA	CHA-CBD-CGD-O2D
13	B	827	CLA	CHA-CBD-CGD-O1D
13	A	816	CLA	CAA-CBA-CGA-O1A
13	A	816	CLA	CAA-CBA-CGA-O2A
13	B	808	CLA	CAA-CBA-CGA-O2A
13	A	836	CLA	C2-C3-C5-C6
13	B	818	CLA	C3-C5-C6-C7
16	A	851	BCR	C16-C17-C18-C19
16	F	202	BCR	C12-C13-C14-C15
16	L	201	BCR	C20-C21-C22-C23
13	F	203	CLA	CAA-CBA-CGA-O1A
13	A	826	CLA	CAA-CBA-CGA-O2A
13	L	203	CLA	C10-C11-C12-C13
13	B	815	CLA	CAA-CBA-CGA-O2A
13	A	828	CLA	CAA-CBA-CGA-O2A
13	B	802	CLA	CAA-CBA-CGA-O2A
13	A	844	CLA	C4C-C3C-CAC-CBC
13	A	839	CLA	CAA-CBA-CGA-O2A
13	B	807	CLA	CAA-CBA-CGA-O2A
13	J	101	CLA	CAA-CBA-CGA-O1A
13	A	828	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
13	L	204	CLA	CAA-CBA-CGA-O2A
13	A	843	CLA	C11-C10-C8-C9
13	B	807	CLA	C6-C7-C8-C9
13	B	810	CLA	C11-C10-C8-C9
13	B	817	CLA	C11-C10-C8-C9
13	B	821	CLA	C6-C7-C8-C9
13	B	822	CLA	C11-C10-C8-C9
16	A	847	BCR	C15-C16-C17-C18
16	L	206	BCR	C9-C10-C11-C12
13	A	818	CLA	C2A-CAA-CBA-CGA
13	B	810	CLA	CAA-CBA-CGA-O1A
18	B	838	LMG	C29-C28-O8-C9
13	A	844	CLA	CBD-CGD-O2D-CED
13	A	804	CLA	CAA-CBA-CGA-O1A
13	A	802	CLA	C1A-C2A-CAA-CBA
13	A	837	CLA	C1A-C2A-CAA-CBA
13	B	803	CLA	C1A-C2A-CAA-CBA
13	B	804	CLA	CAA-CBA-CGA-O1A
13	A	818	CLA	CAA-CBA-CGA-O1A
13	B	833	CLA	C13-C15-C16-C17
13	A	823	CLA	C2A-CAA-CBA-CGA
13	A	824	CLA	C2A-CAA-CBA-CGA
13	A	841	CLA	C2A-CAA-CBA-CGA
13	B	817	CLA	C10-C11-C12-C13
13	A	824	CLA	CAA-CBA-CGA-O1A
13	A	841	CLA	CAA-CBA-CGA-O1A
13	B	813	CLA	CAA-CBA-CGA-O1A
13	L	204	CLA	CAA-CBA-CGA-O1A
13	B	830	CLA	CAA-CBA-CGA-O2A
13	A	826	CLA	CAA-CBA-CGA-O1A
13	A	828	CLA	C15-C16-C17-C18
13	B	810	CLA	C16-C17-C18-C19
13	L	202	CLA	CAA-CBA-CGA-O2A
13	A	803	CLA	CAA-CBA-CGA-O2A
16	A	848	BCR	C23-C24-C25-C26
13	B	808	CLA	CAA-CBA-CGA-O1A
13	B	815	CLA	CAA-CBA-CGA-O1A
13	A	830	CLA	C16-C17-C18-C20
13	A	835	CLA	C16-C17-C18-C19
13	A	828	CLA	C2-C3-C5-C6
13	J	101	CLA	CAA-CBA-CGA-O2A
13	A	809	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	A	810	CLA	CAD-CBD-CGD-O1D
13	B	803	CLA	CAD-CBD-CGD-O1D
13	B	826	CLA	CAD-CBD-CGD-O1D
13	B	829	CLA	CAD-CBD-CGD-O1D
13	A	828	CLA	CAA-CBA-CGA-O1A
13	B	807	CLA	CAA-CBA-CGA-O1A
13	B	809	CLA	C15-C16-C17-C18
13	A	831	CLA	C11-C12-C13-C14
13	B	802	CLA	C11-C12-C13-C14
13	B	807	CLA	C11-C10-C8-C9
17	A	852	LHG	C12-C13-C14-C15
13	B	817	CLA	C4-C3-C5-C6
13	A	829	CLA	C11-C12-C13-C15
13	A	833	CLA	C11-C10-C8-C7
13	B	807	CLA	C6-C7-C8-C10
13	B	811	CLA	C12-C13-C15-C16
13	A	823	CLA	CAA-CBA-CGA-O1A
13	A	823	CLA	CAA-CBA-CGA-O2A
16	A	849	BCR	C7-C8-C9-C10
16	A	850	BCR	C7-C8-C9-C10
16	B	835	BCR	C21-C22-C23-C24
16	K	202	BCR	C11-C12-C13-C14
18	B	838	LMG	C15-C16-C17-C18
13	A	839	CLA	CAA-CBA-CGA-O1A
13	A	844	CLA	C2C-C3C-CAC-CBC
13	B	830	CLA	CAA-CBA-CGA-O1A

There are no ring outliers.

101 monomers are involved in 254 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	A	805	CLA	3	0
13	A	842	CLA	2	0
13	B	809	CLA	4	0
16	J	102	BCR	7	0
13	A	824	CLA	1	0
13	A	826	CLA	3	0
13	A	828	CLA	2	0
13	B	817	CLA	1	0
13	A	814	CLA	2	0
13	A	808	CLA	2	0
13	A	811	CLA	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	822	CLA	8	0
13	A	810	CLA	1	0
13	A	813	CLA	1	0
13	A	838	CLA	1	0
13	B	827	CLA	3	0
13	B	821	CLA	6	0
13	A	812	CLA	6	0
13	B	833	CLA	10	0
16	B	836	BCR	4	0
16	M	101	BCR	4	0
13	A	809	CLA	6	0
13	A	818	CLA	2	0
16	A	849	BCR	1	0
16	L	206	BCR	1	0
13	A	825	CLA	2	0
16	J	103	BCR	1	0
12	A	801	CL0	2	0
14	B	834	PQN	6	0
13	B	803	CLA	3	0
13	B	824	CLA	3	0
16	A	848	BCR	5	0
13	A	821	CLA	2	0
13	A	822	CLA	4	0
13	A	820	CLA	3	0
13	B	808	CLA	3	0
13	B	831	CLA	1	0
16	L	201	BCR	3	0
13	A	829	CLA	10	0
14	A	845	PQN	4	0
17	A	852	LHG	2	0
13	B	819	CLA	1	0
13	B	810	CLA	1	0
13	A	823	CLA	2	0
16	K	202	BCR	3	0
13	B	813	CLA	3	0
13	A	815	CLA	1	0
13	A	835	CLA	6	0
13	B	804	CLA	6	0
13	J	101	CLA	1	0
13	A	807	CLA	4	0
16	A	850	BCR	5	0
13	B	806	CLA	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
16	A	847	BCR	5	0
13	A	804	CLA	3	0
13	B	818	CLA	3	0
13	L	204	CLA	3	0
13	B	812	CLA	1	0
13	A	841	CLA	2	0
15	A	846	SF4	2	0
16	I	101	BCR	5	0
13	B	801	CLA	4	0
13	A	819	CLA	4	0
13	B	807	CLA	5	0
13	L	203	CLA	4	0
16	J	104	BCR	2	0
13	B	823	CLA	4	0
13	A	831	CLA	3	0
13	B	802	CLA	5	0
13	A	833	CLA	6	0
13	A	806	CLA	7	0
13	A	839	CLA	2	0
16	B	835	BCR	4	0
13	A	832	CLA	2	0
13	A	837	CLA	2	0
13	B	805	CLA	1	0
16	F	202	BCR	4	0
13	B	820	CLA	5	0
13	A	830	CLA	7	0
16	B	837	BCR	2	0
13	A	844	CLA	2	0
13	A	827	CLA	1	0
13	B	816	CLA	1	0
13	L	202	CLA	3	0
16	L	205	BCR	2	0
13	A	840	CLA	7	0
13	A	836	CLA	2	0
13	B	832	CLA	4	0
13	A	802	CLA	2	0
18	B	838	LMG	1	0
15	C	102	SF4	4	0
13	A	803	CLA	3	0
13	B	825	CLA	3	0
13	A	834	CLA	3	0
13	A	843	CLA	5	0

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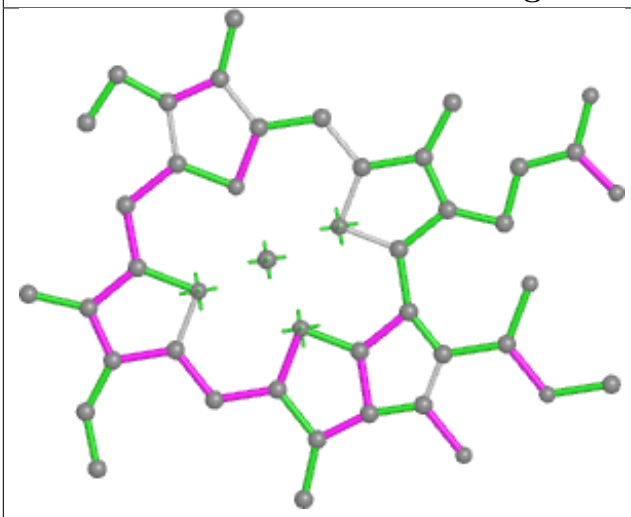
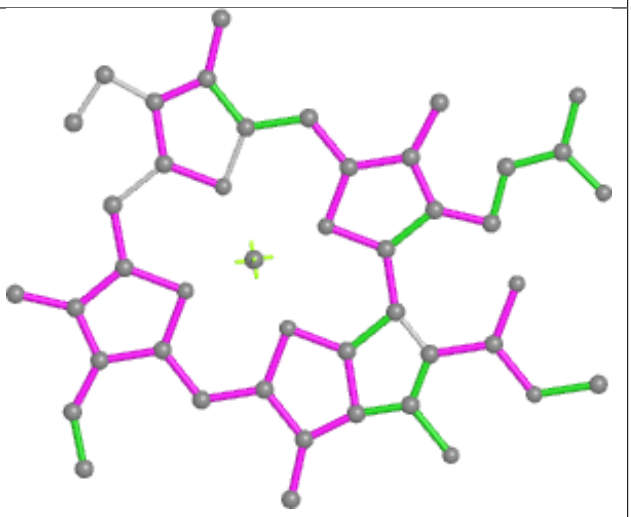
Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	811	CLA	3	0
16	A	851	BCR	5	0
16	F	201	BCR	4	0
13	B	828	CLA	1	0
13	B	826	CLA	1	0
13	B	830	CLA	6	0

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.

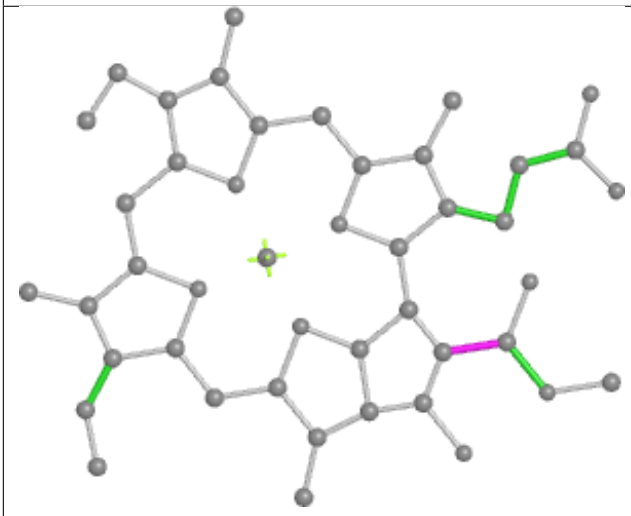
Ligand CLA A 805



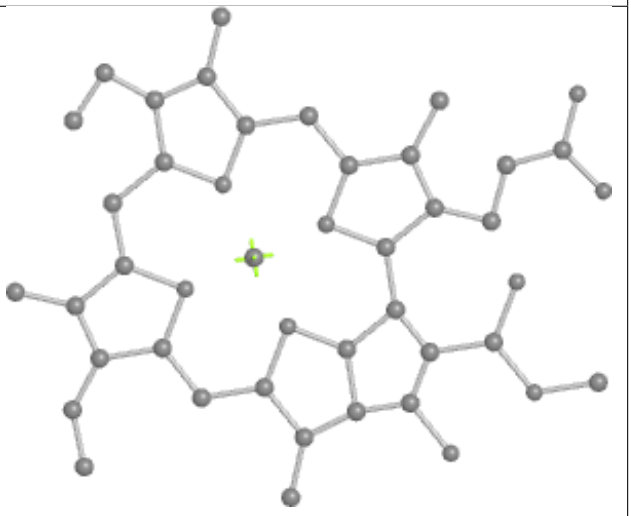
Bond lengths



Bond angles

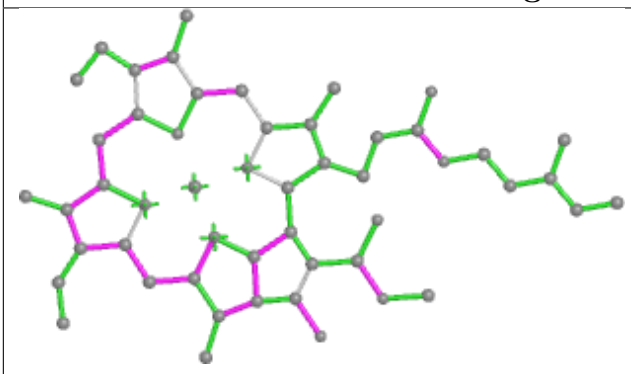


Torsions

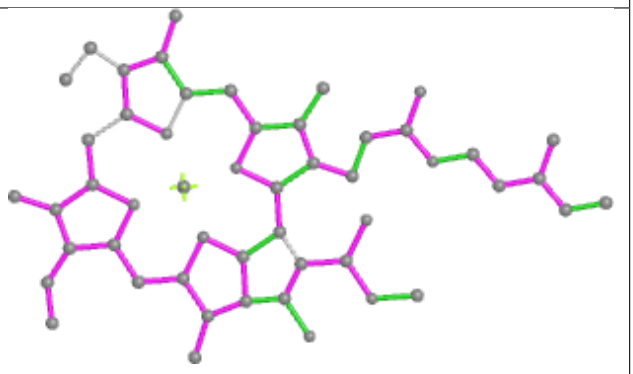


Rings

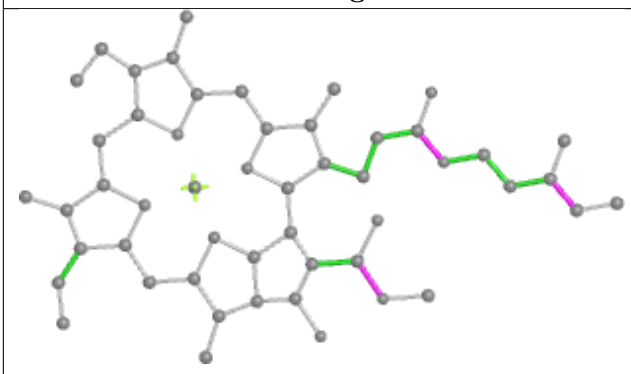
Ligand CLA A 842



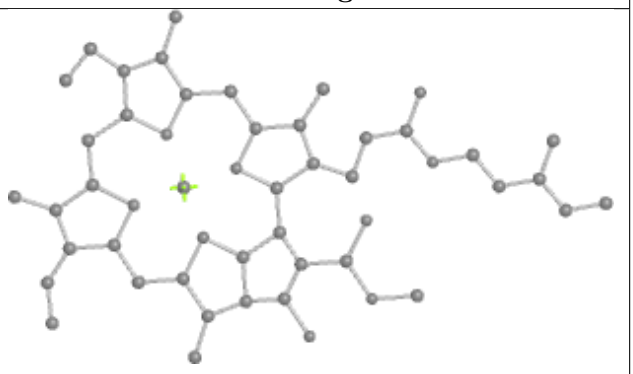
Bond lengths



Bond angles

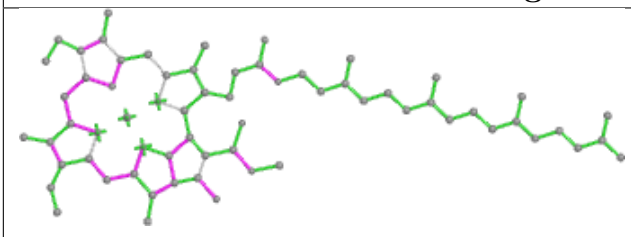


Torsions

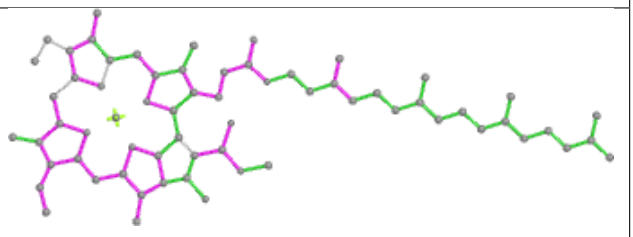


Rings

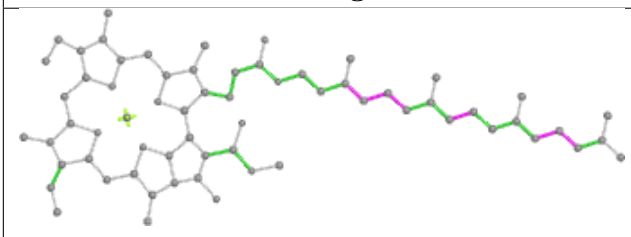
Ligand CLA B 809



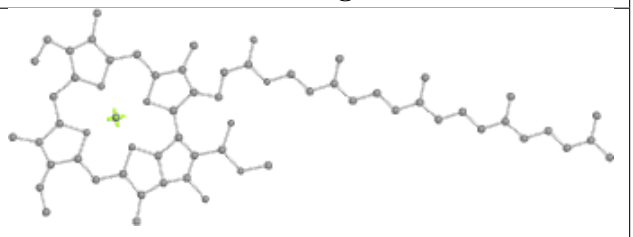
Bond lengths



Bond angles

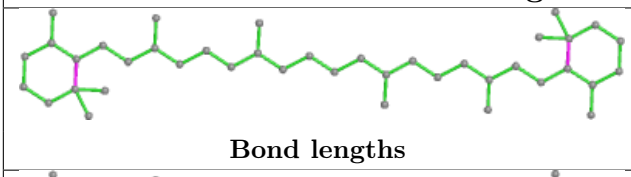


Torsions



Rings

Ligand BCR J 102



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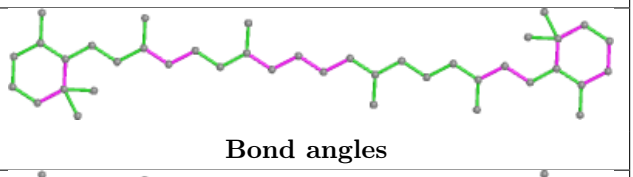
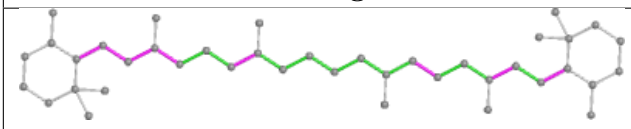
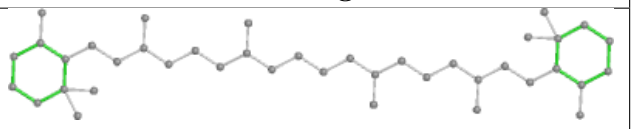


Bond angles

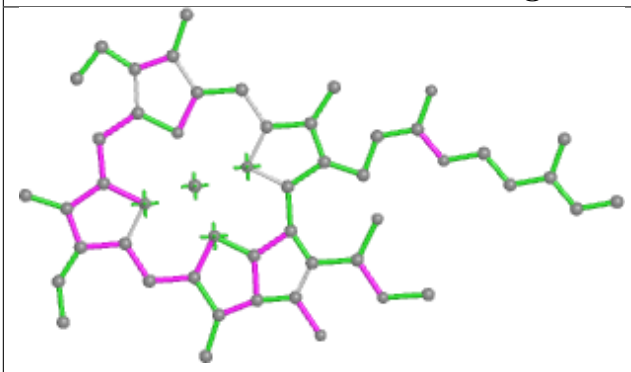


Torsions

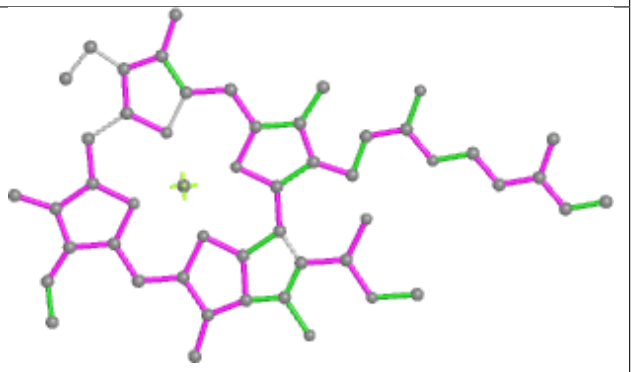


Rings

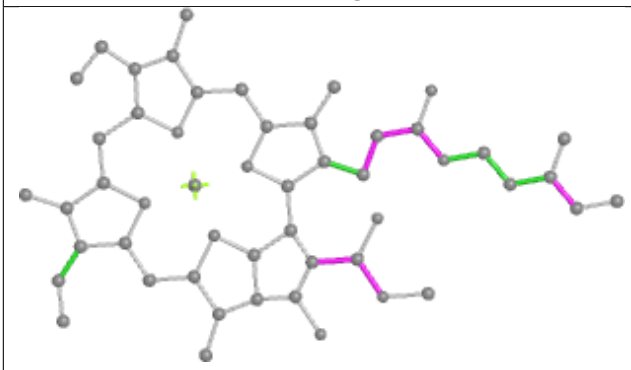
Ligand CLA A 824



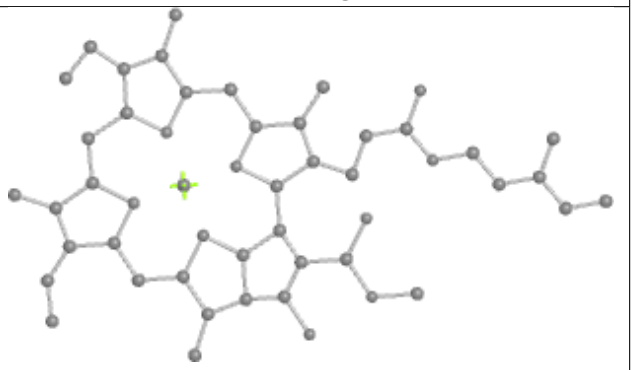
Bond lengths



Bond angles

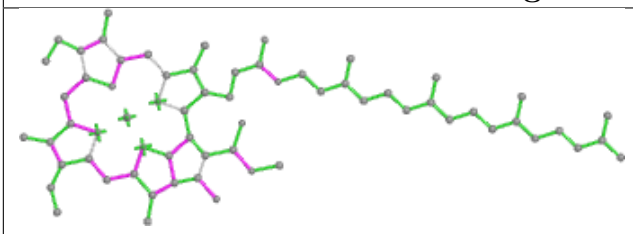


Torsions

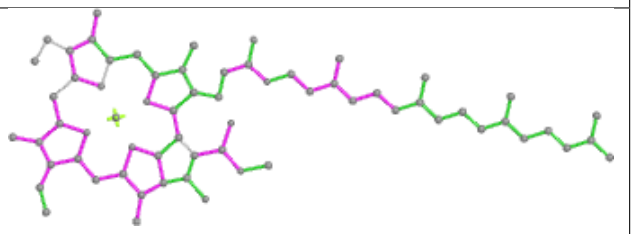


Rings

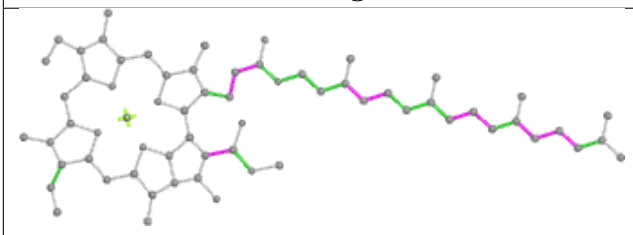
Ligand CLA A 826



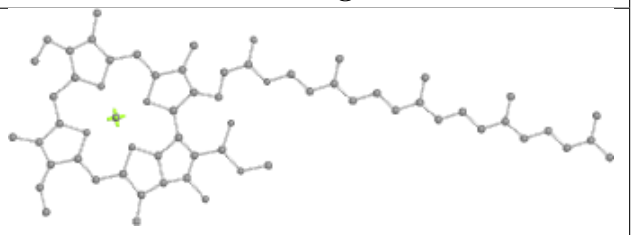
Bond lengths



Bond angles

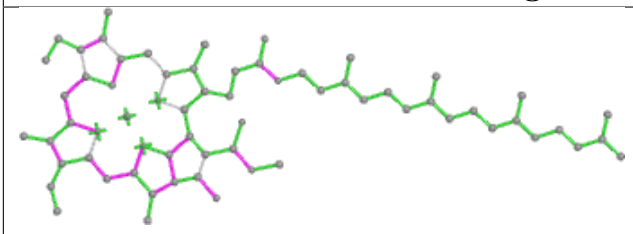


Torsions



Rings

Ligand CLA A 828



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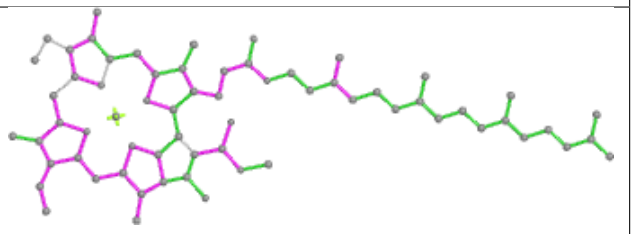
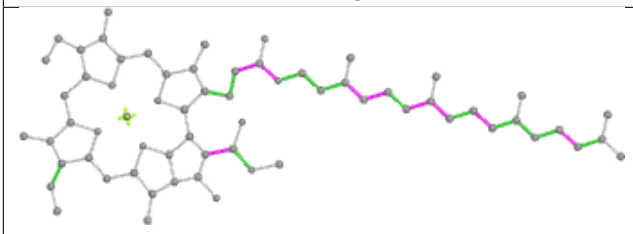


Bond angles



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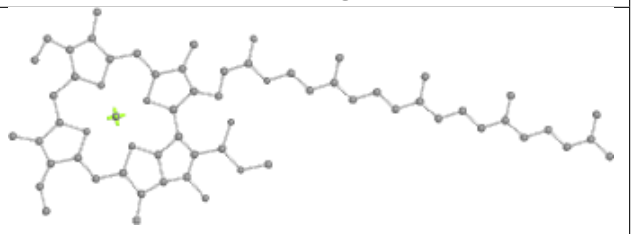
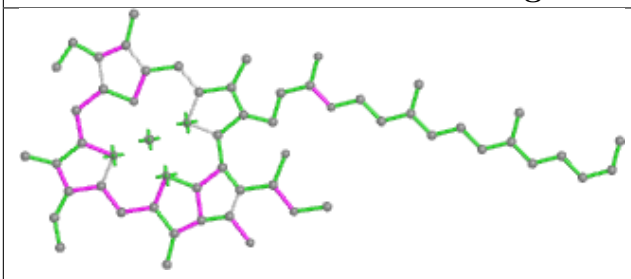
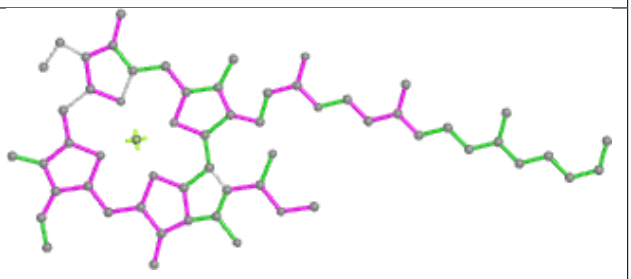
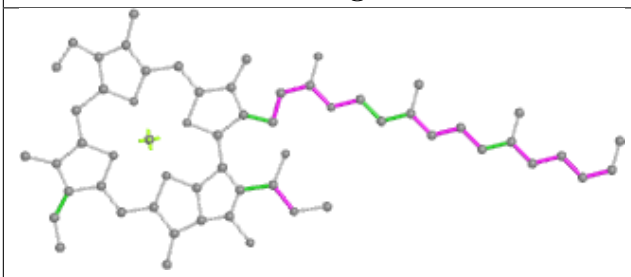
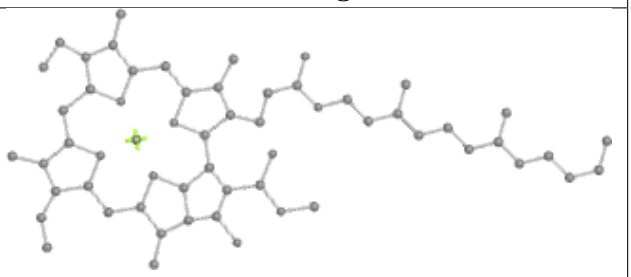
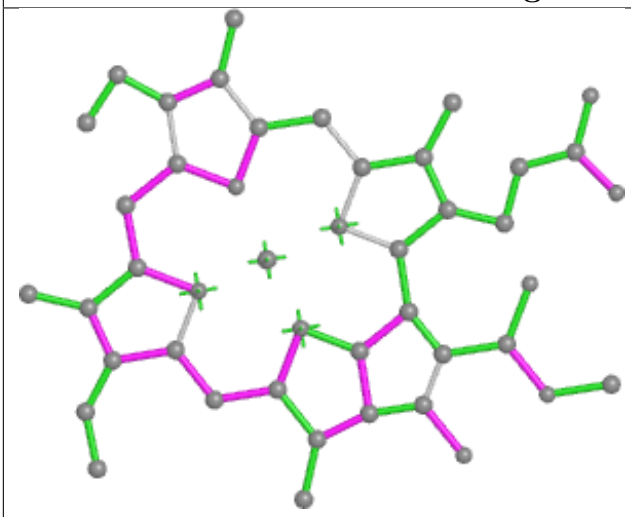


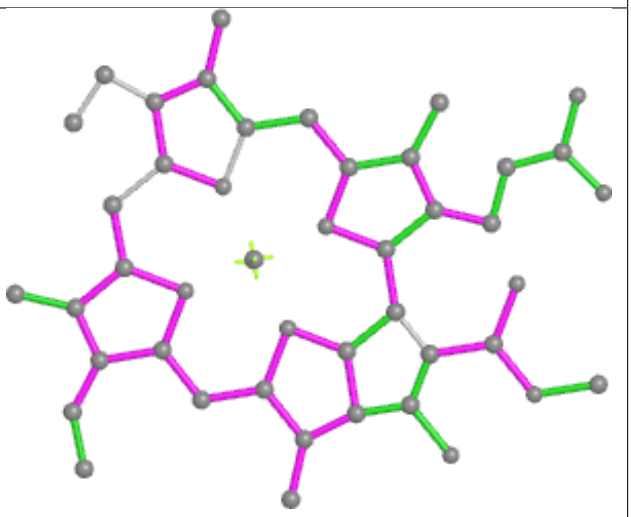
Rings

Ligand CLA B 817	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

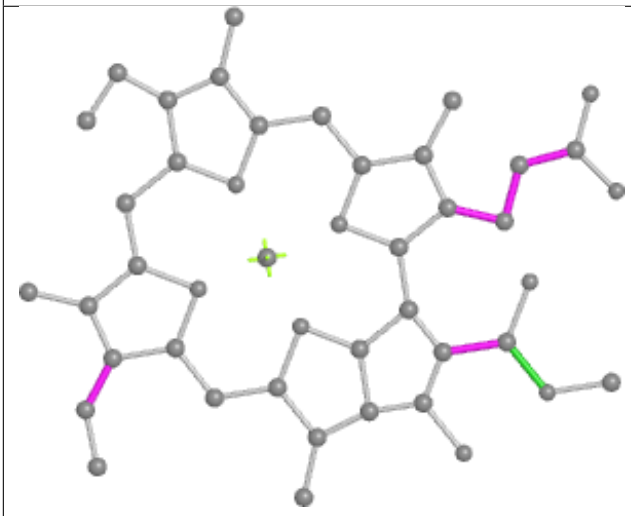
Ligand CLA A 814



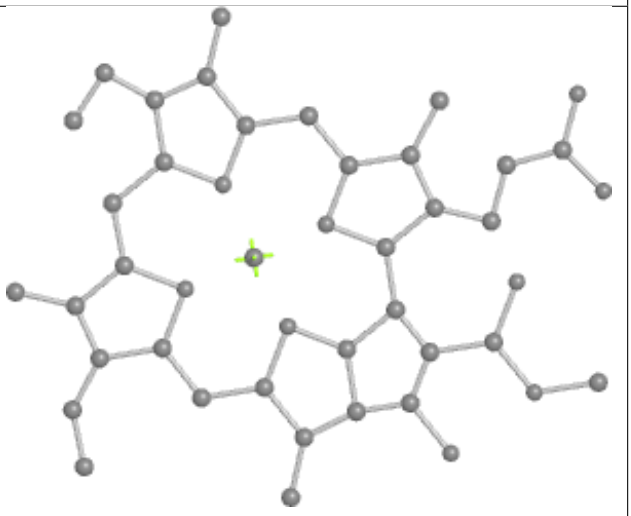
Bond lengths



Bond angles

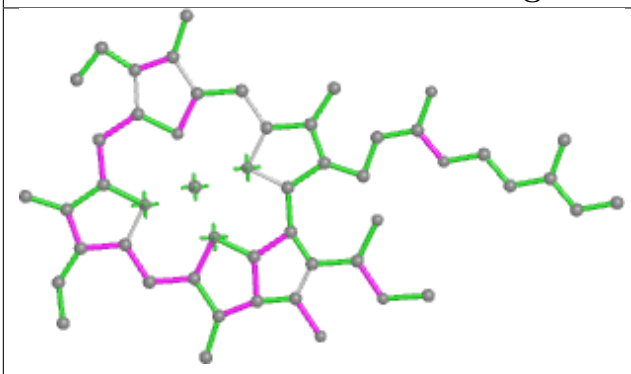


Torsions

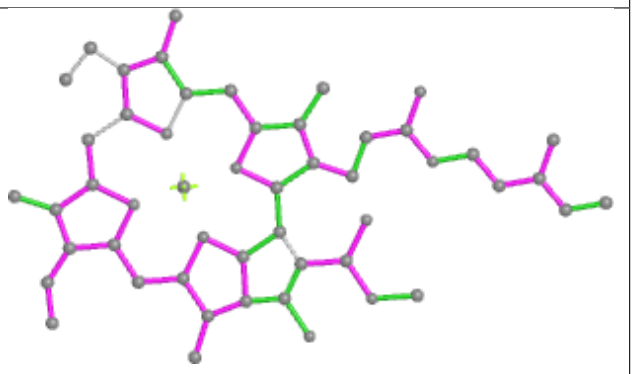


Rings

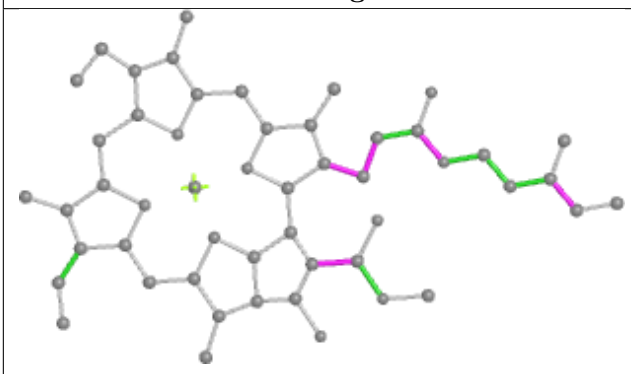
Ligand CLA A 808



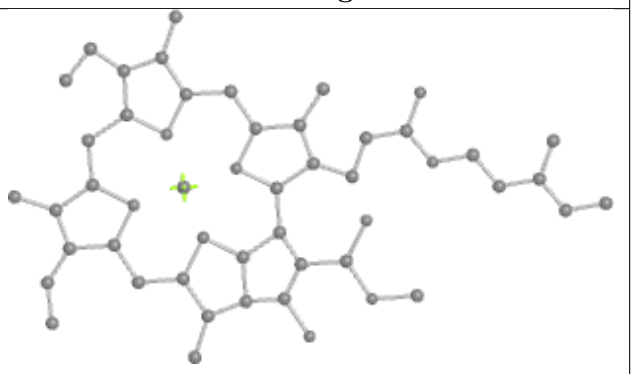
Bond lengths



Bond angles

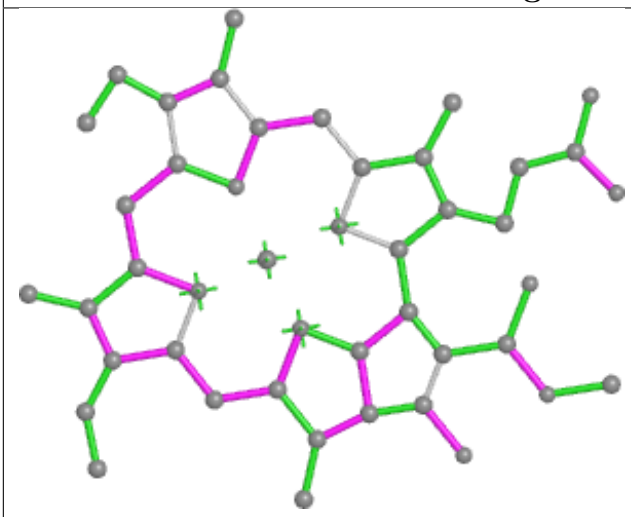


Torsions

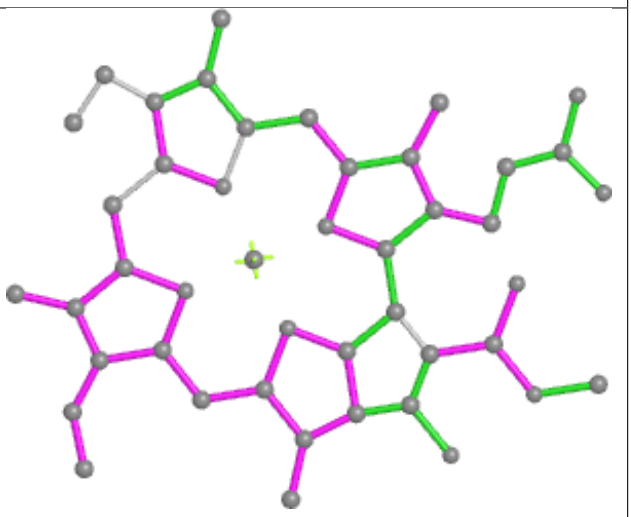


Rings

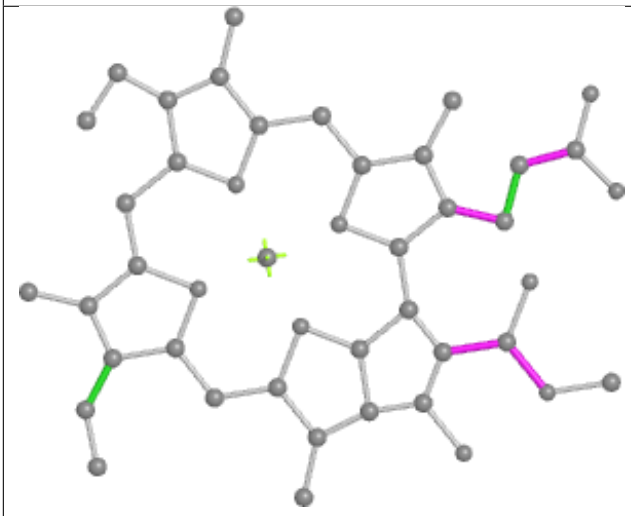
Ligand CLA A 811



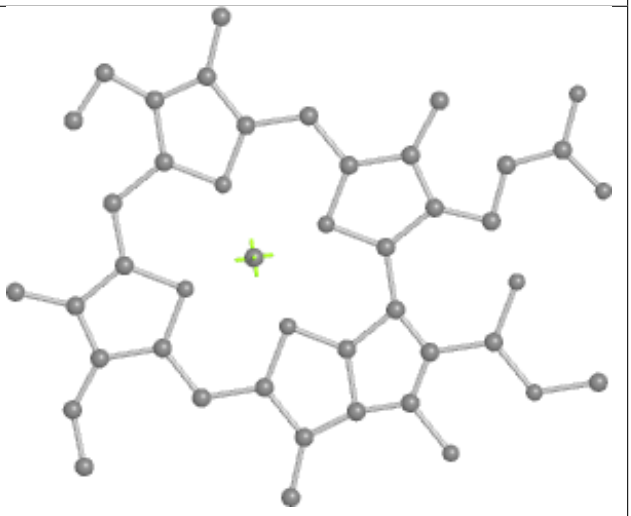
Bond lengths



Bond angles

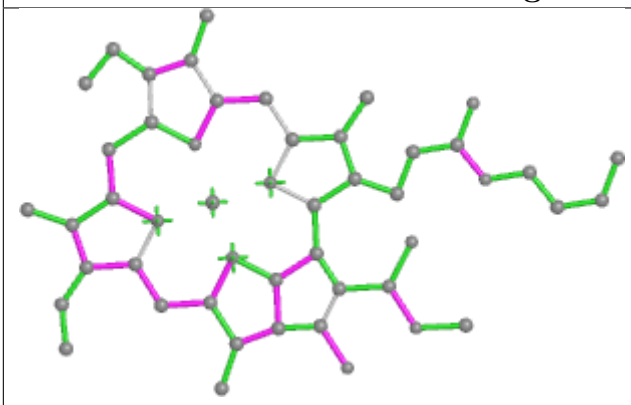


Torsions

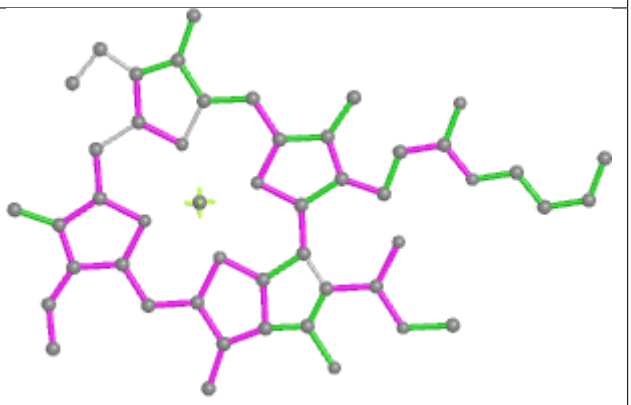


Rings

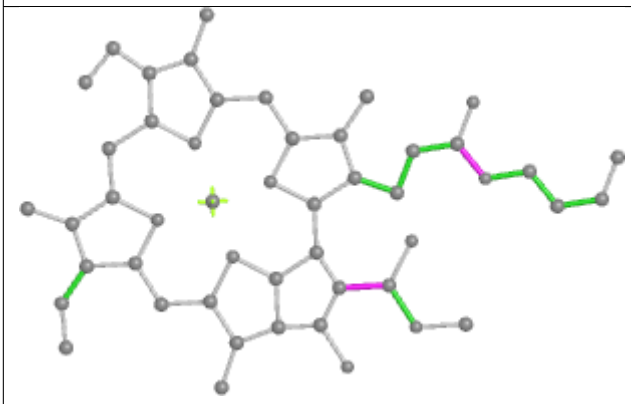
Ligand CLA A 817



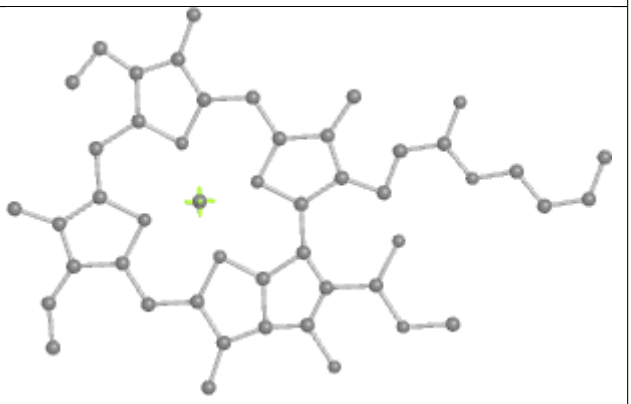
Bond lengths



Bond angles

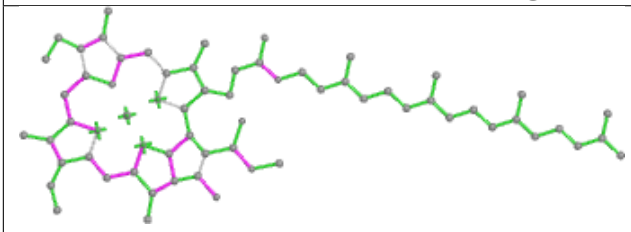


Torsions

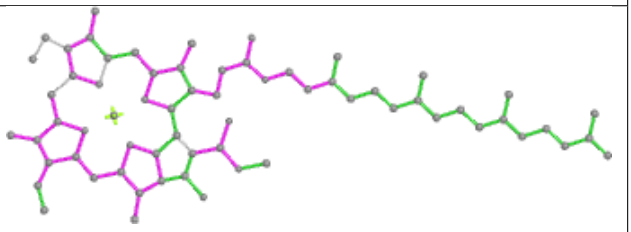


Rings

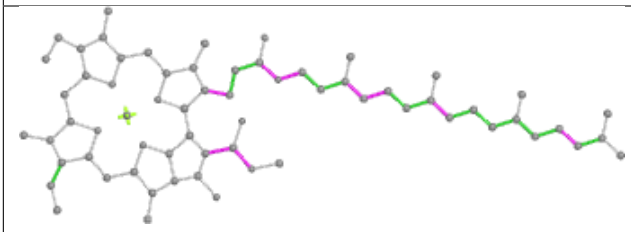
Ligand CLA B 822



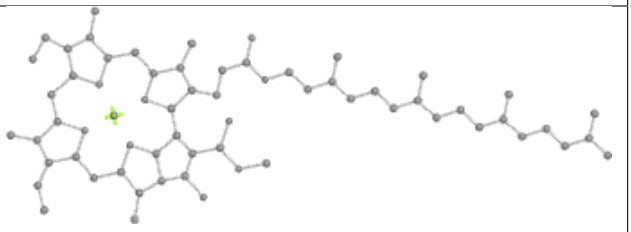
Bond lengths



Bond angles

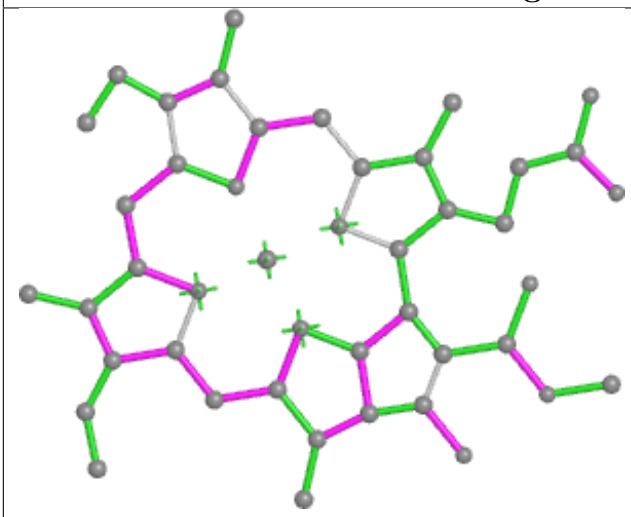


Torsions

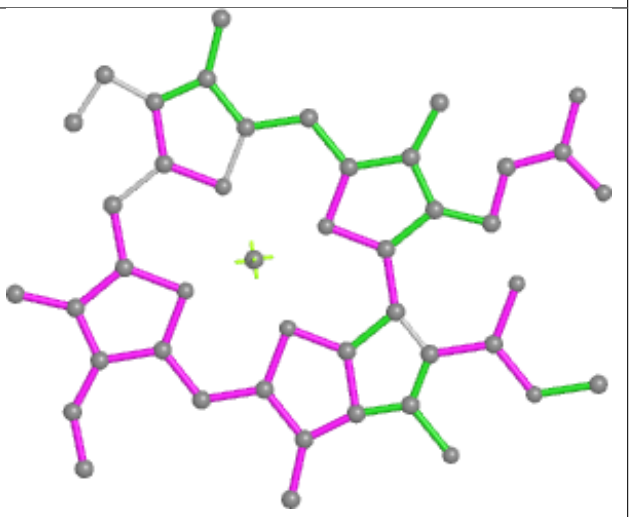


Rings

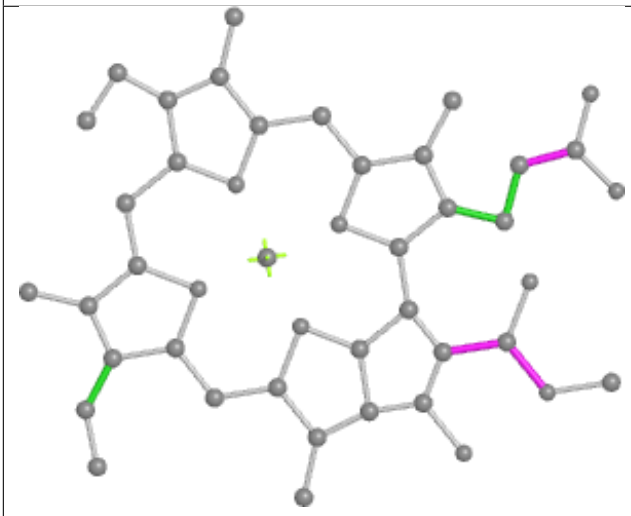
Ligand CLA A 810



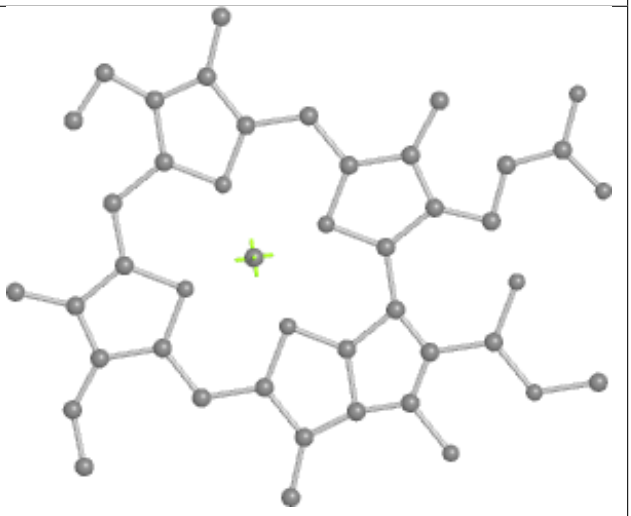
Bond lengths



Bond angles

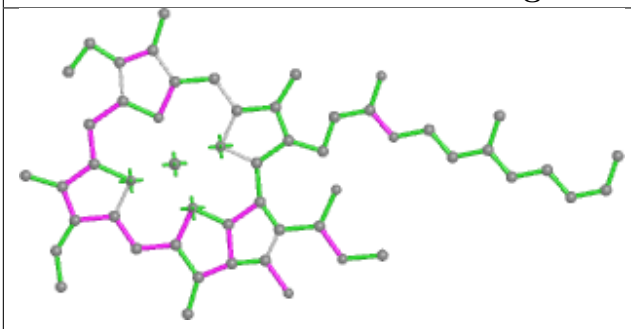


Torsions

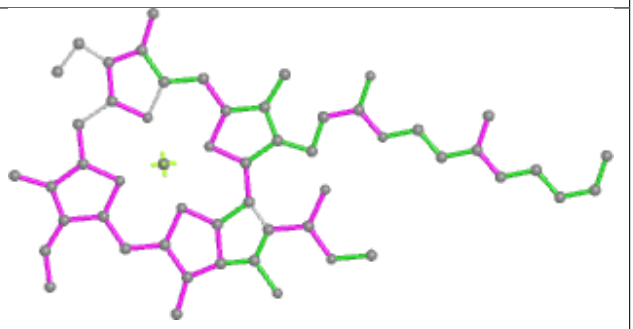


Rings

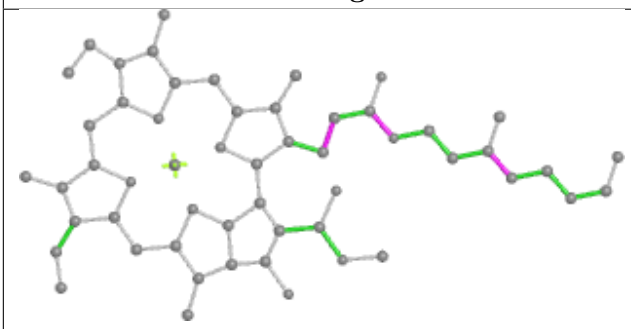
Ligand CLA A 813



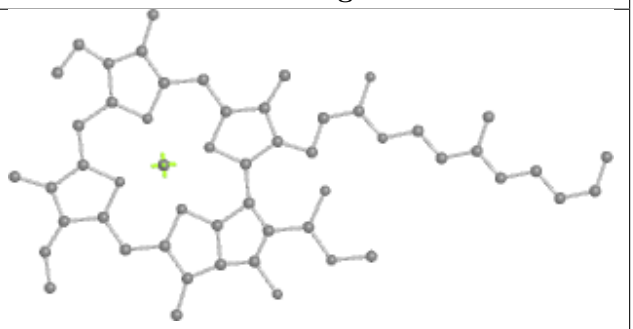
Bond lengths



Bond angles

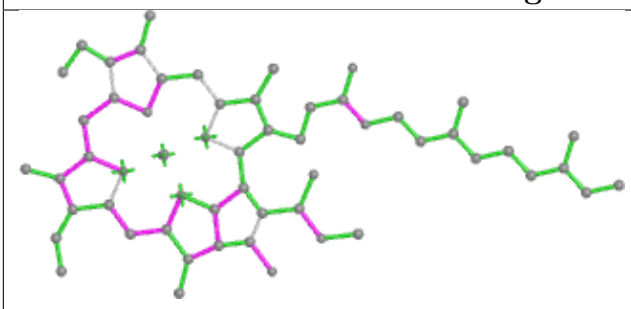


Torsions

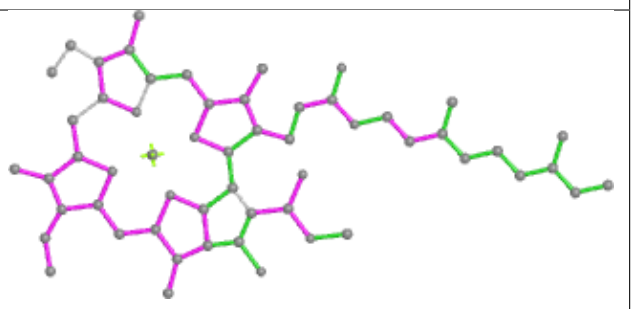


Rings

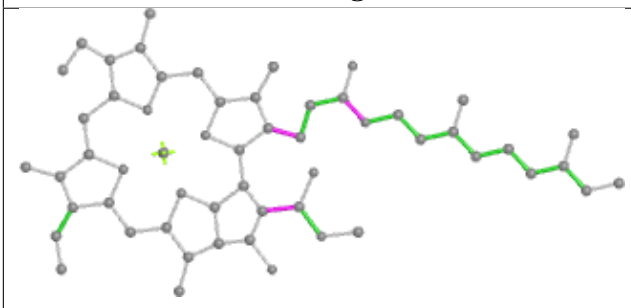
Ligand CLA B 814



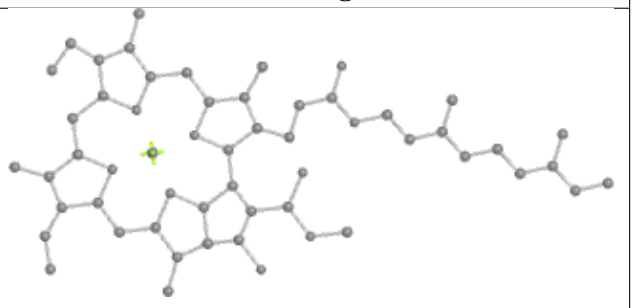
Bond lengths



Bond angles

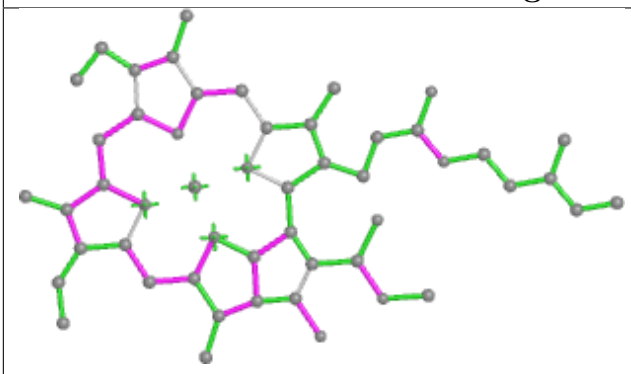


Torsions

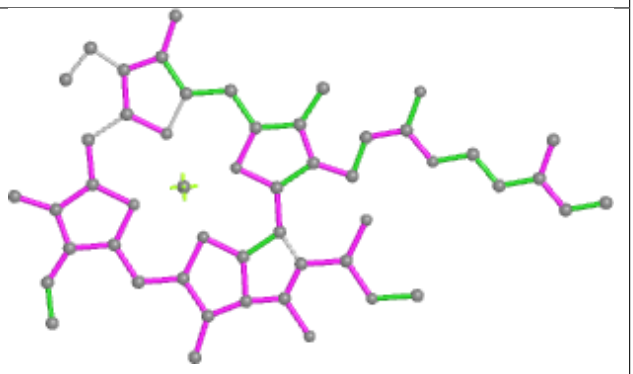


Rings

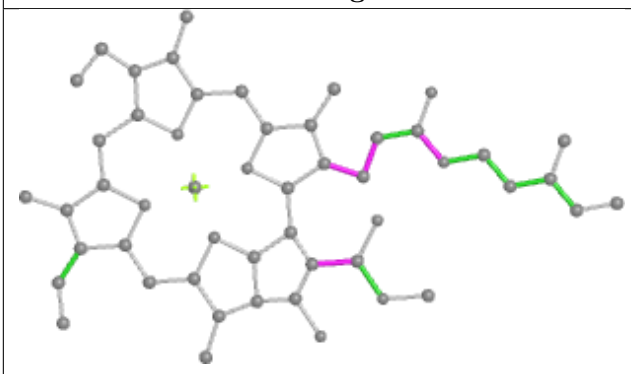
Ligand CLA A 838



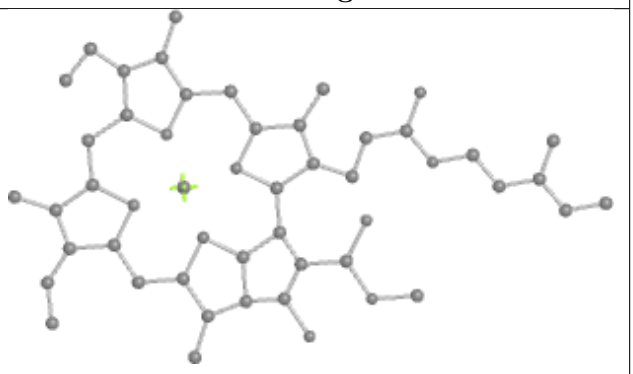
Bond lengths



Bond angles

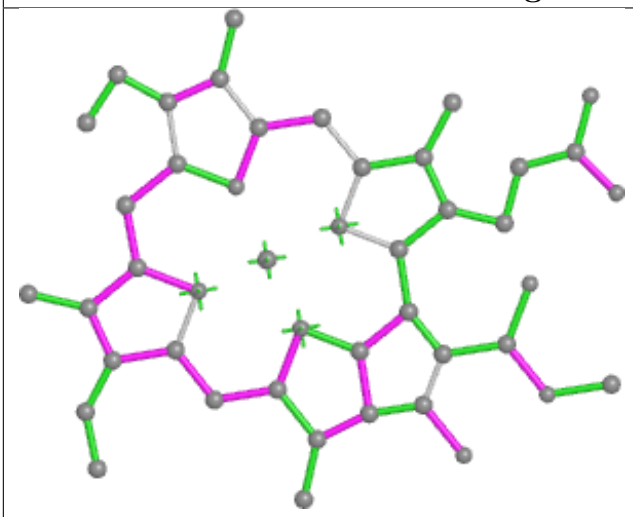


Torsions

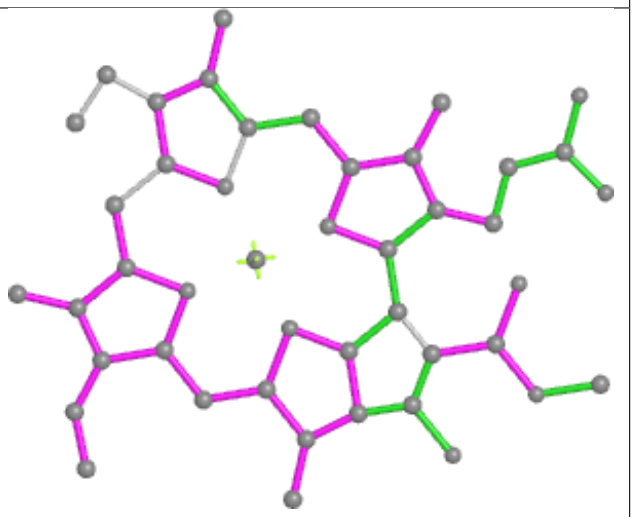


Rings

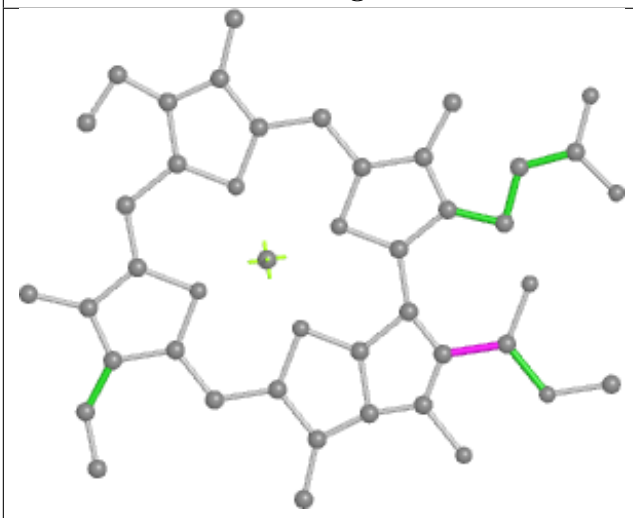
Ligand CLA B 827



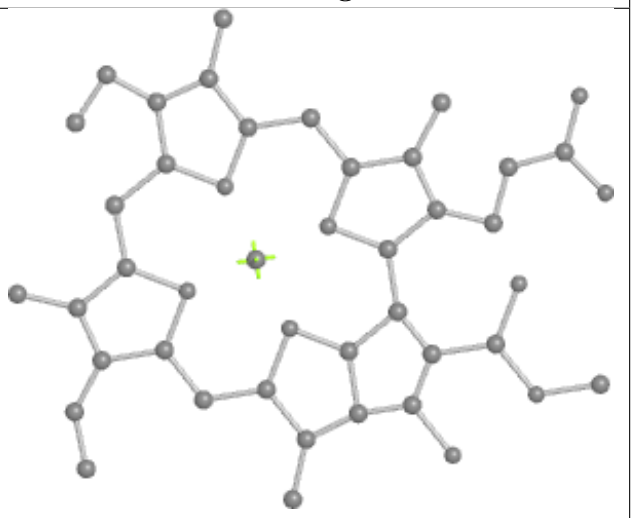
Bond lengths



Bond angles

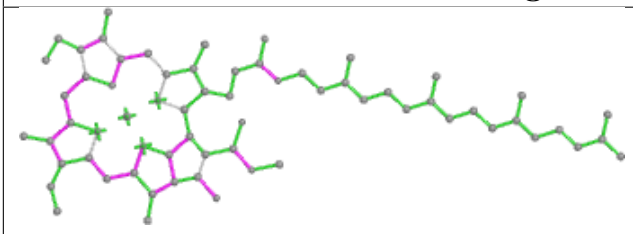


Torsions

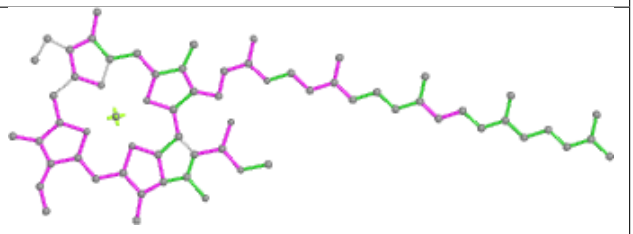


Rings

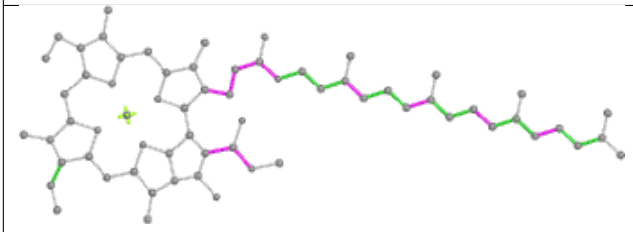
Ligand CLA B 821



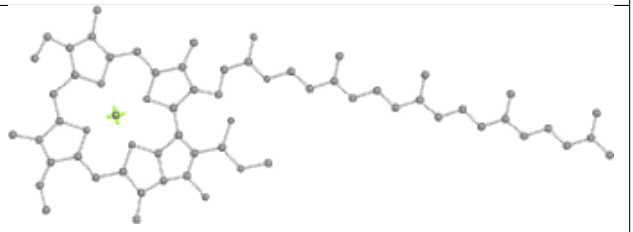
Bond lengths



Bond angles

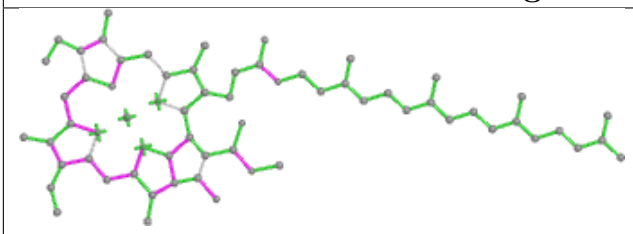


Torsions

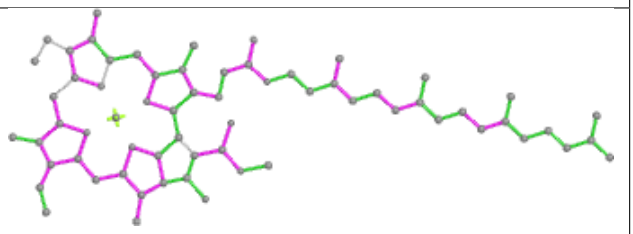


Rings

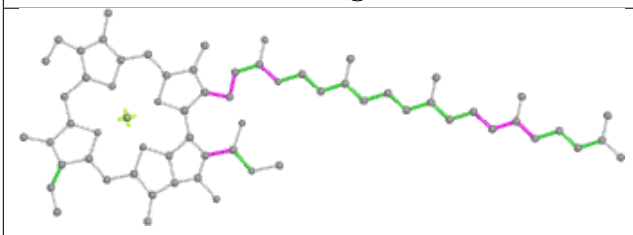
Ligand CLA A 812



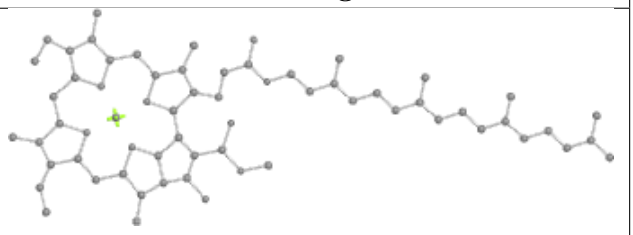
Bond lengths



Bond angles

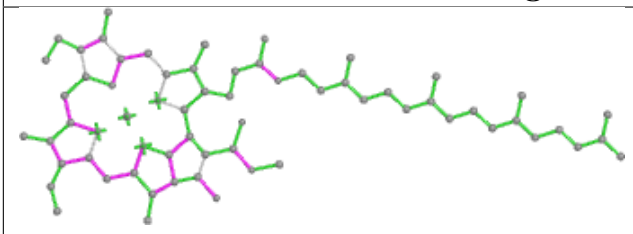


Torsions



Rings

Ligand CLA B 833



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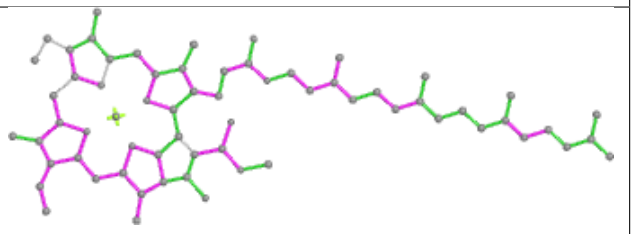
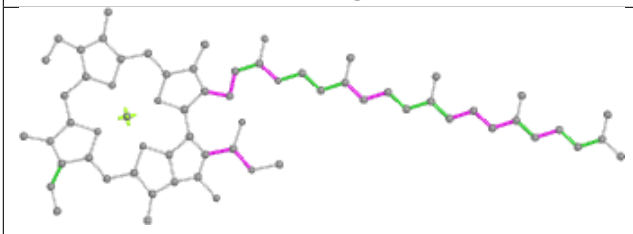
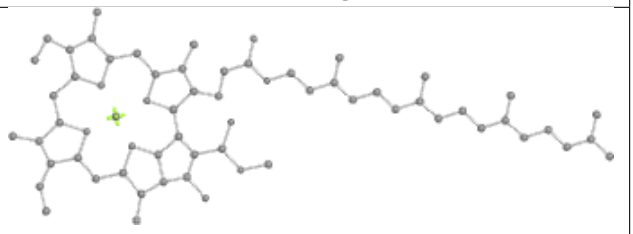


Bond angles

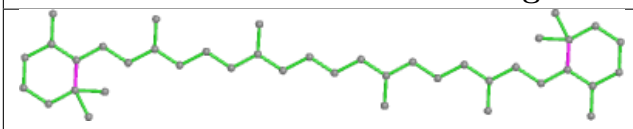


Torsions

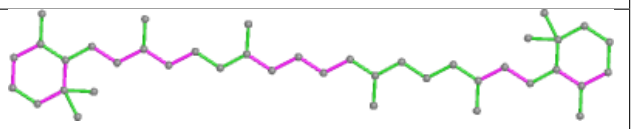


Rings

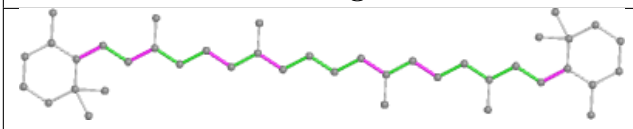
Ligand BCR B 836



Bond lengths



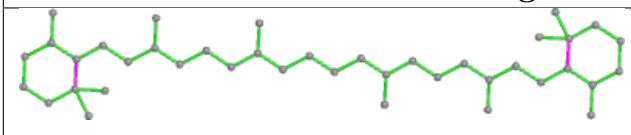
Bond angles

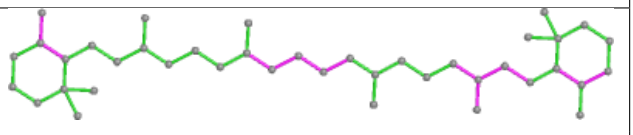


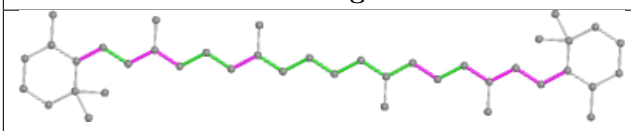
Torsions

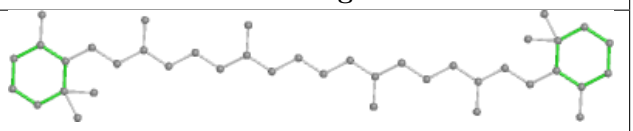
Rings

Ligand BCR M 101

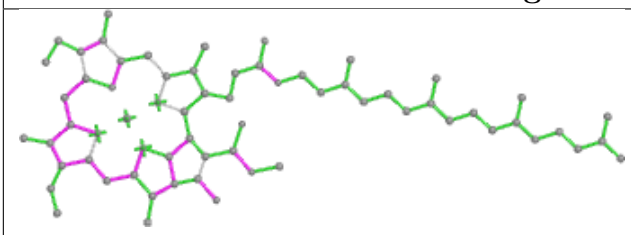

Bond lengths

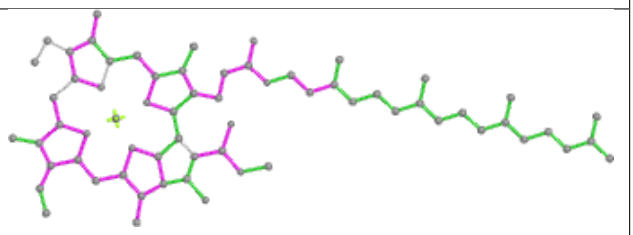

Bond angles

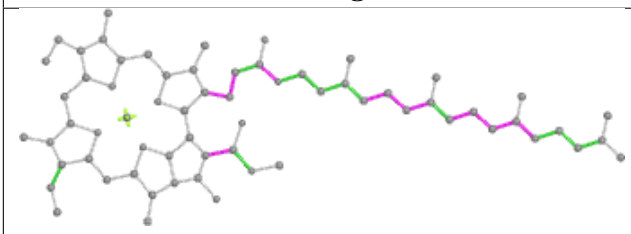

Torsions

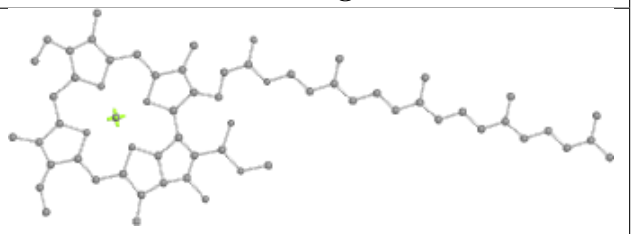

Rings

Ligand CLA A 809

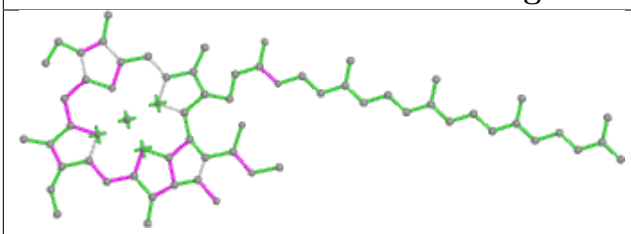

Bond lengths

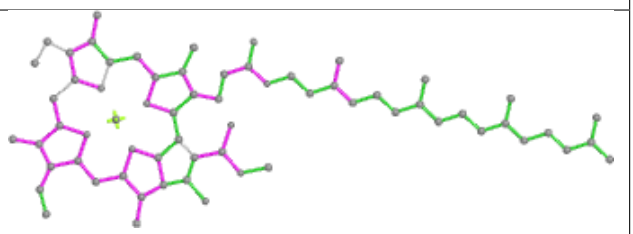

Bond angles

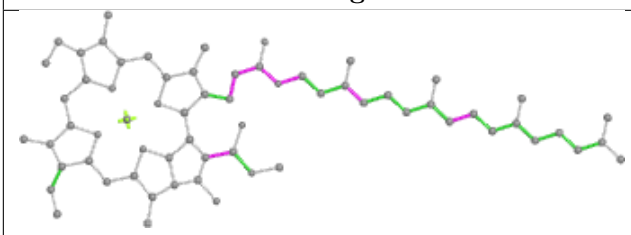

Torsions

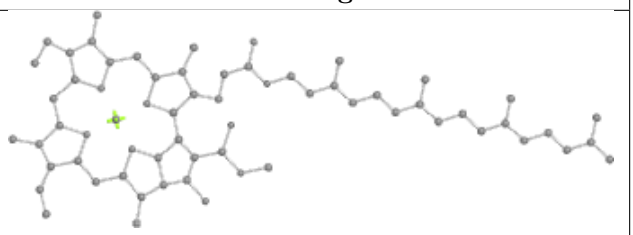

Rings

Ligand CLA A 818

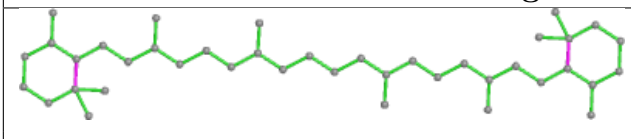

Bond lengths


Bond angles

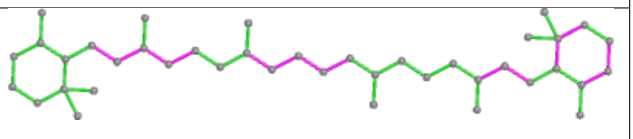

Torsions


Rings

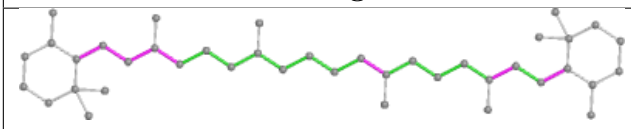
Ligand BCR A 849



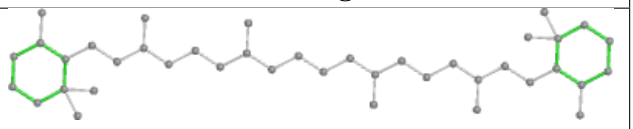
Bond lengths



Bond angles

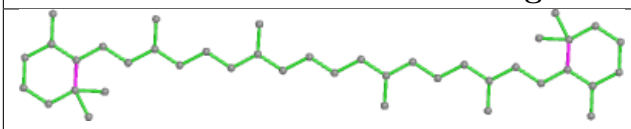


Torsions

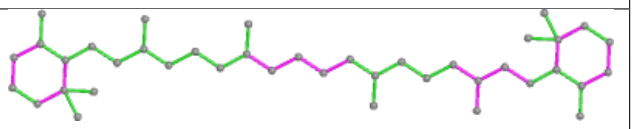


Rings

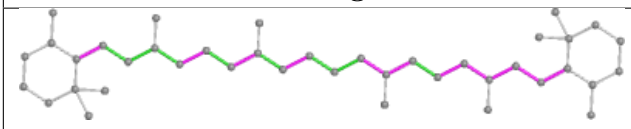
Ligand BCR L 206



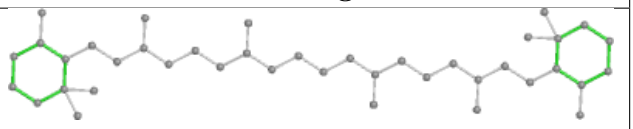
Bond lengths



Bond angles

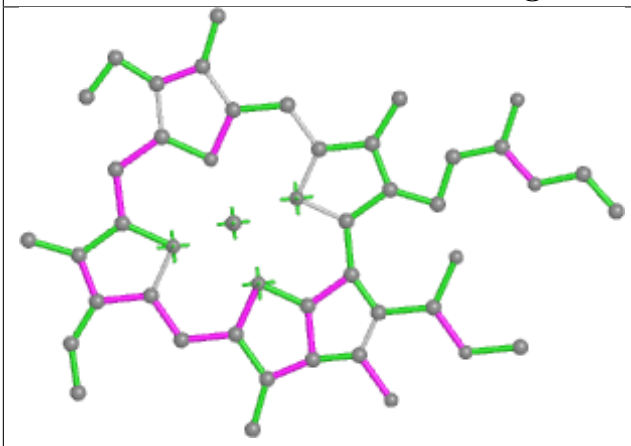


Torsions

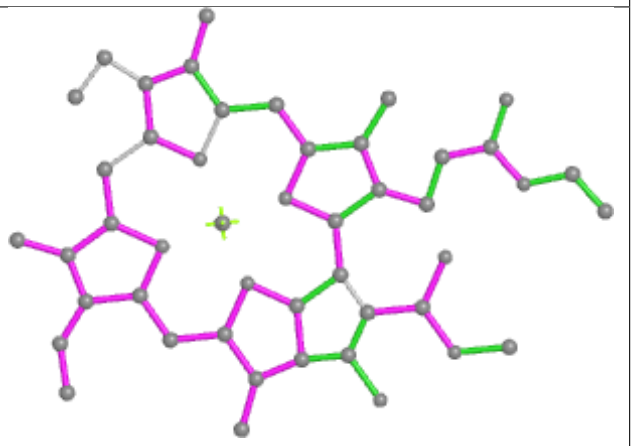


Rings

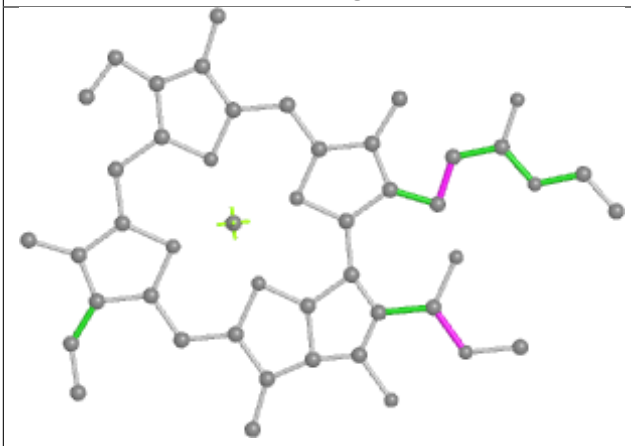
Ligand CLA A 825



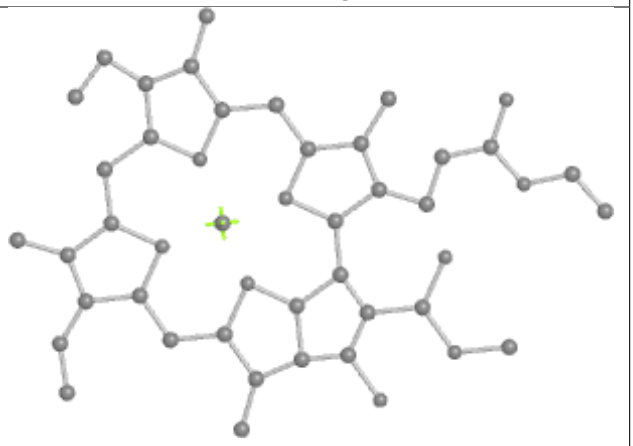
Bond lengths



Bond angles

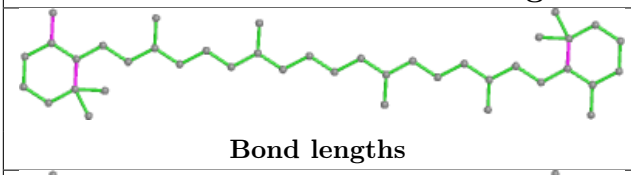


Torsions

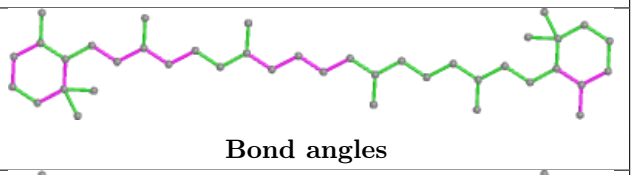


Rings

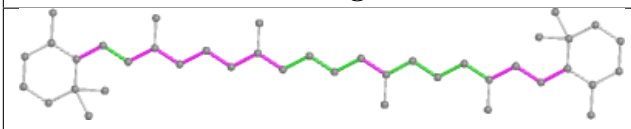
Ligand BCR J 103



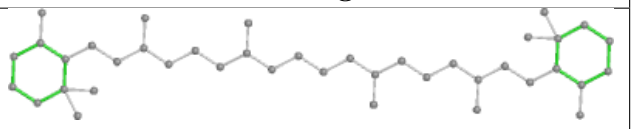
Bond lengths



Bond angles

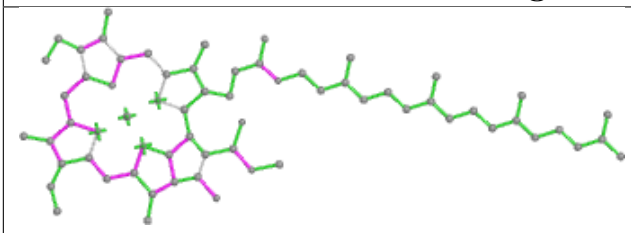


Torsions

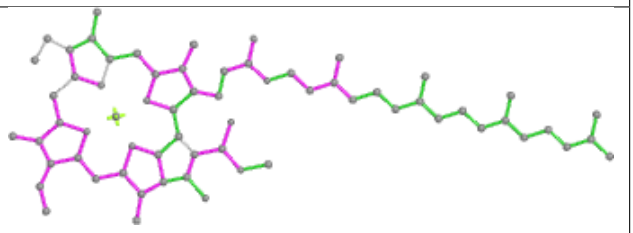


Rings

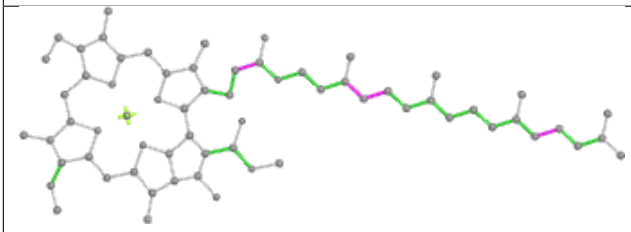
Ligand CL0 A 801



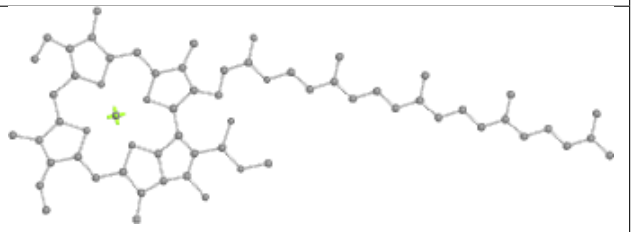
Bond lengths



Bond angles

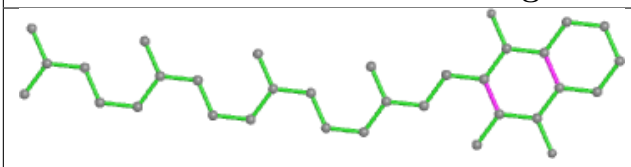


Torsions

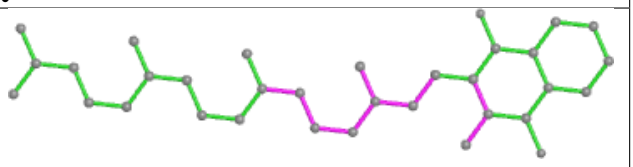


Rings

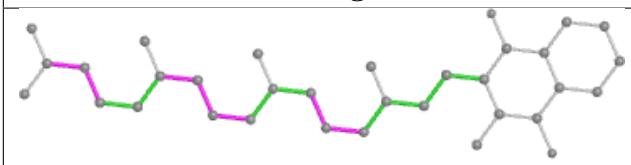
Ligand PQN B 834



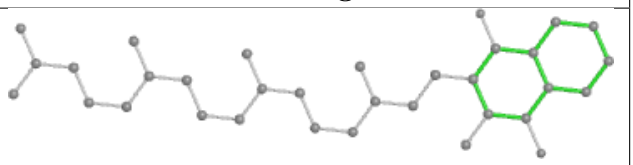
Bond lengths



Bond angles

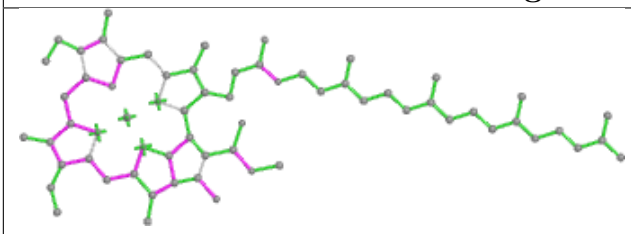


Torsions

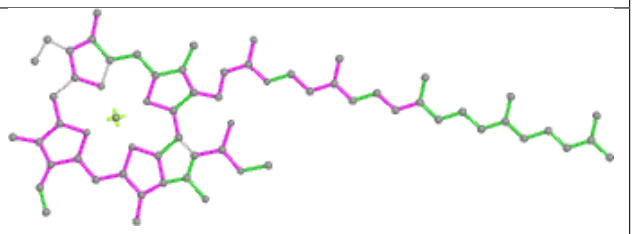


Rings

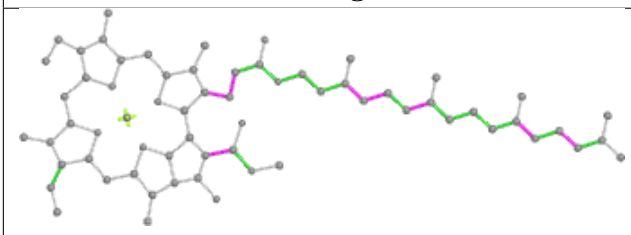
Ligand CLA B 803



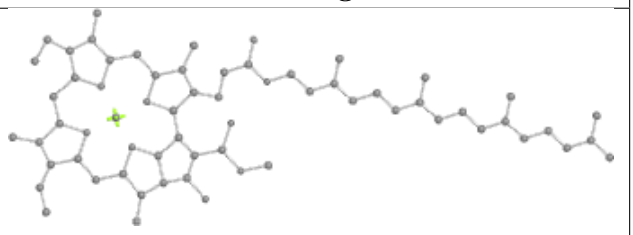
Bond lengths



Bond angles

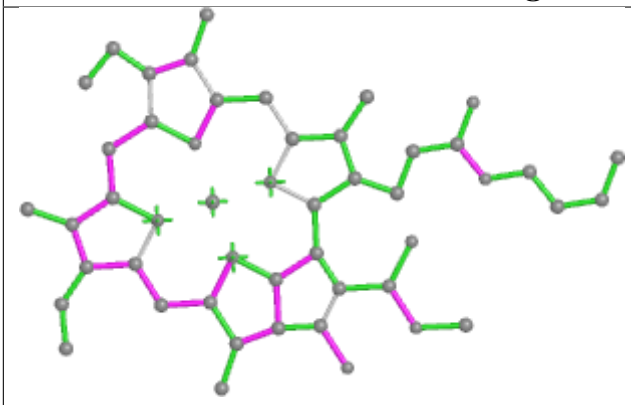


Torsions

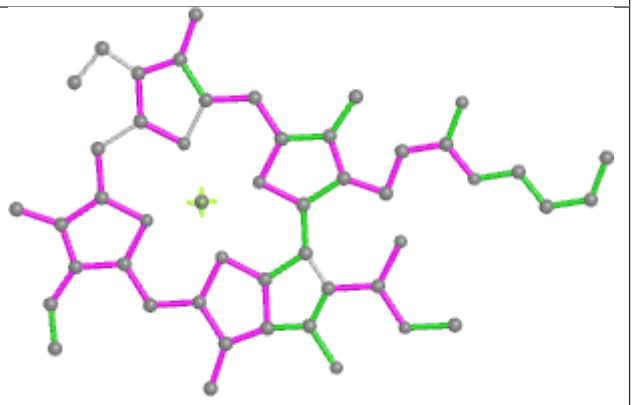


Rings

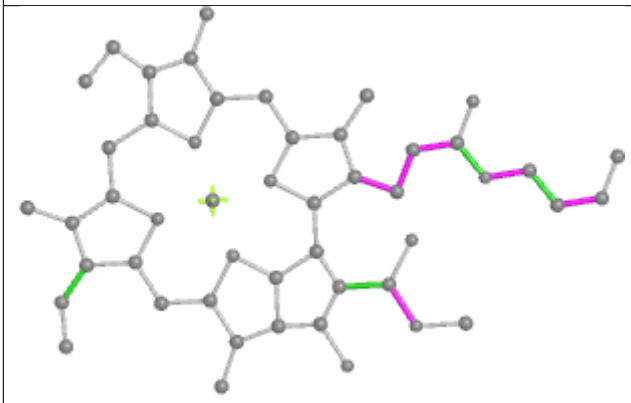
Ligand CLA B 824



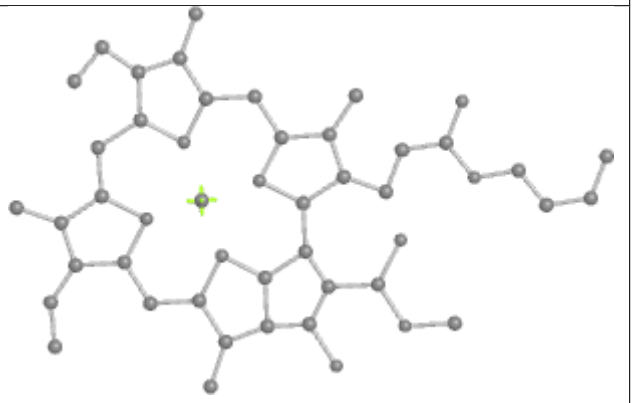
Bond lengths



Bond angles

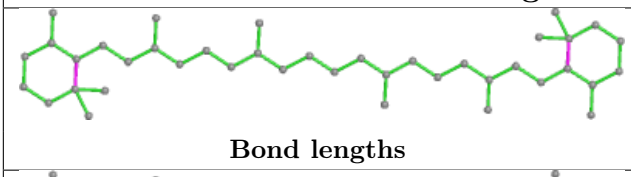


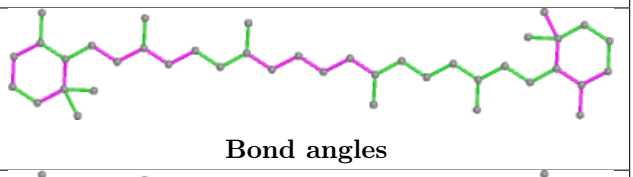
Torsions

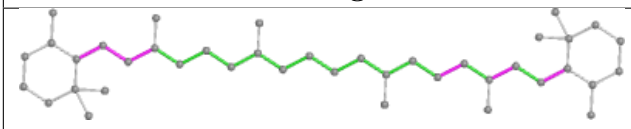


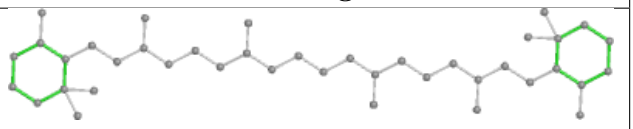
Rings

Ligand BCR A 848

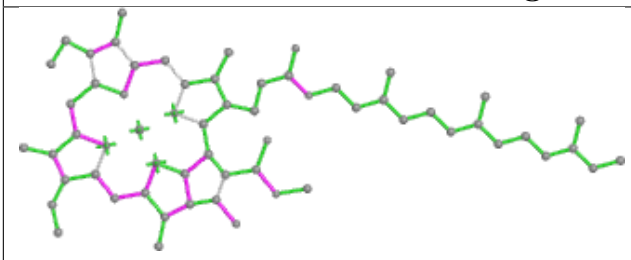

Bond lengths

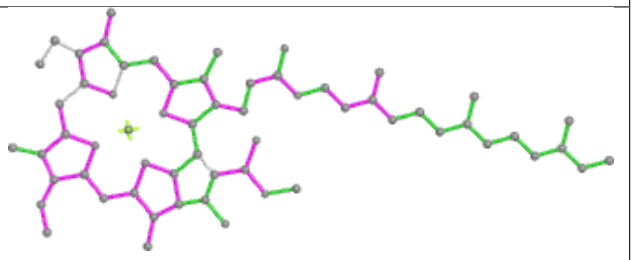

Bond angles

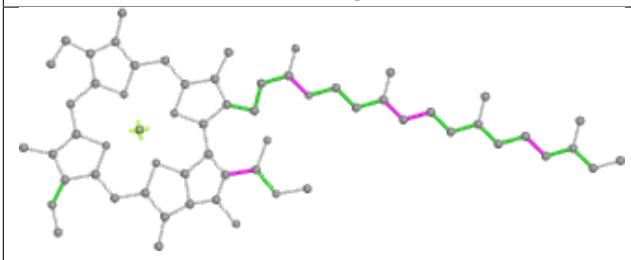

Torsions

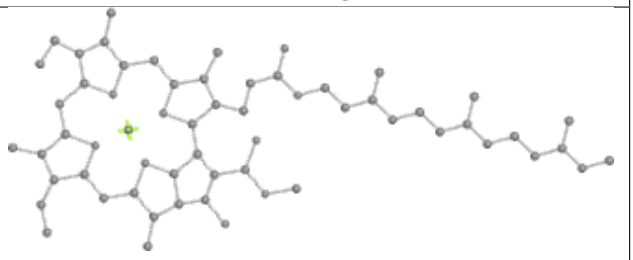

Rings

Ligand CLA A 821

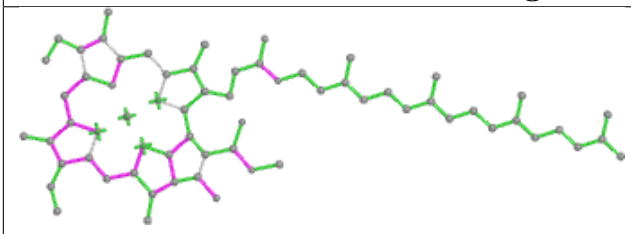

Bond lengths

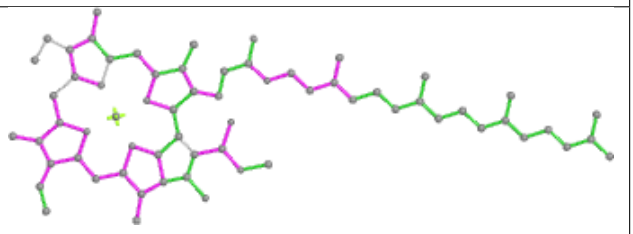

Bond angles

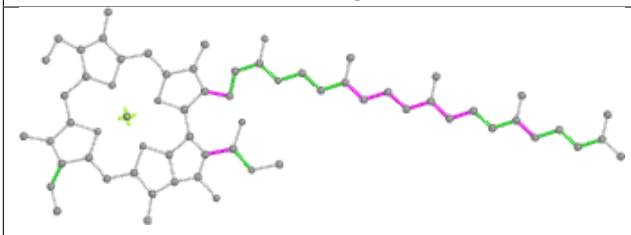

Torsions

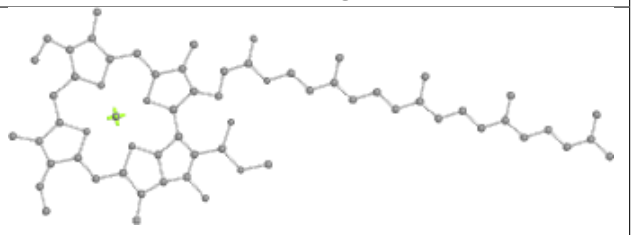

Rings

Ligand CLA A 822

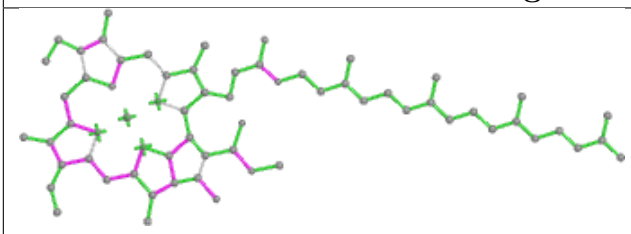

Bond lengths


Bond angles

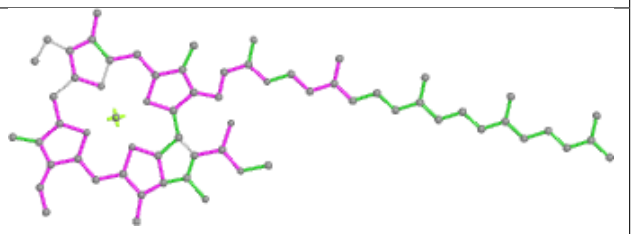

Torsions


Rings

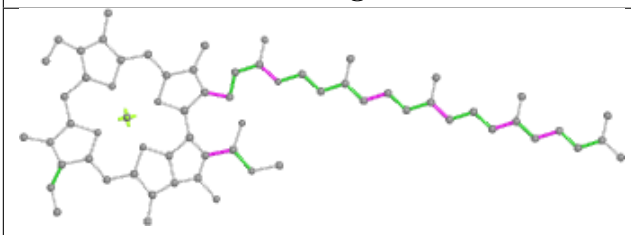
Ligand CLA A 820



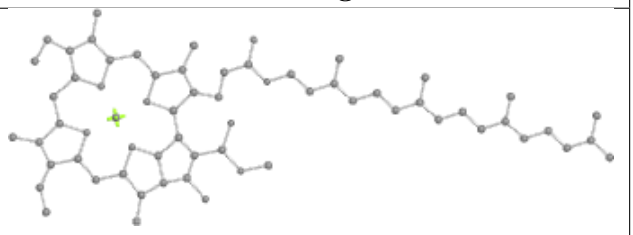
Bond lengths



Bond angles

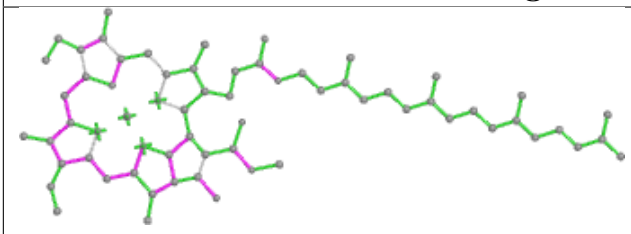


Torsions

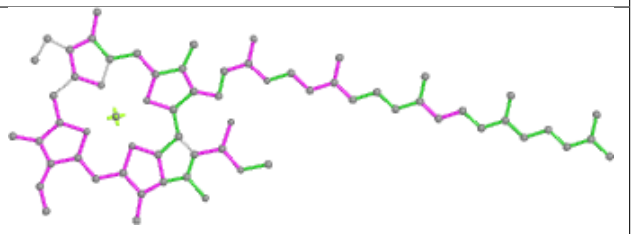


Rings

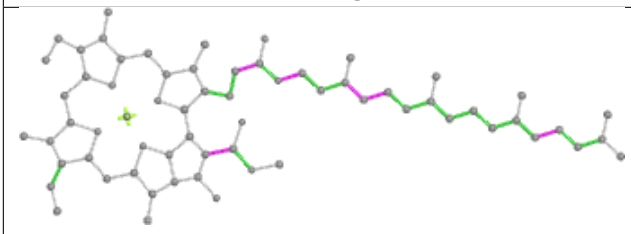
Ligand CLA B 808



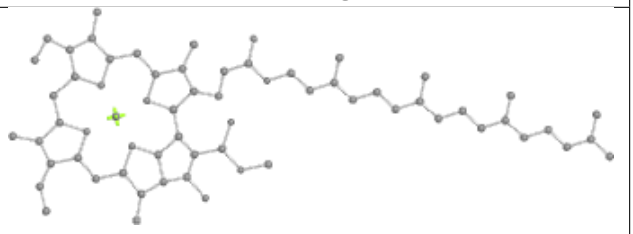
Bond lengths



Bond angles

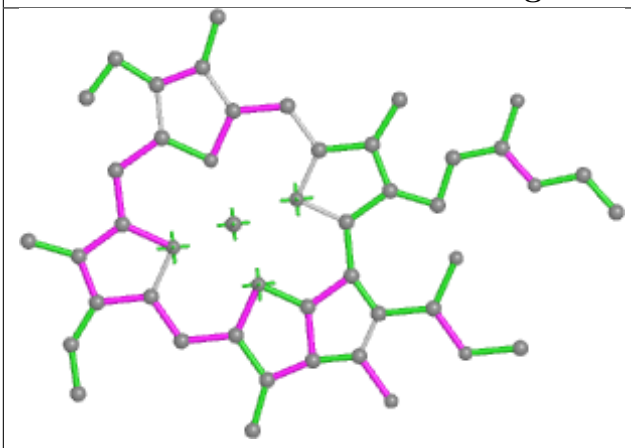


Torsions

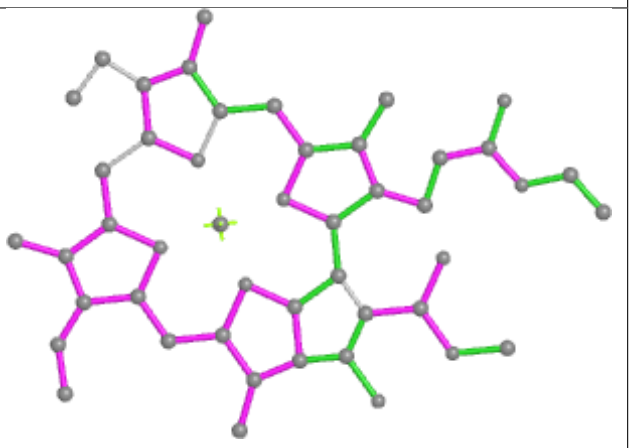


Rings

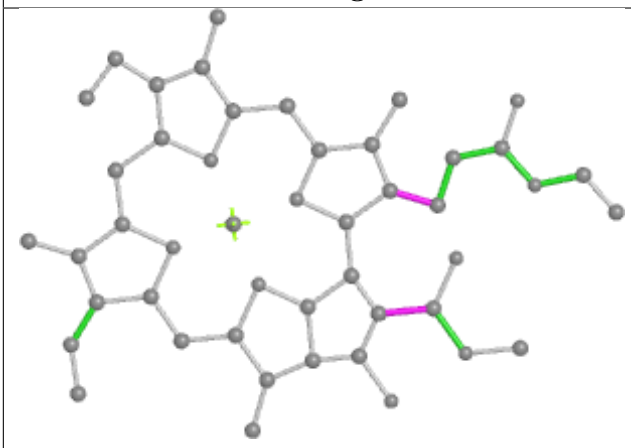
Ligand CLA B 831



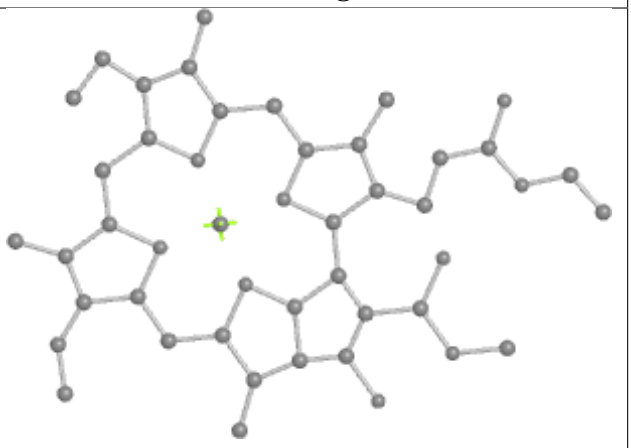
Bond lengths



Bond angles

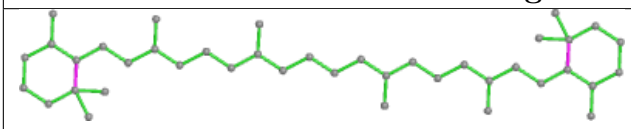


Torsions

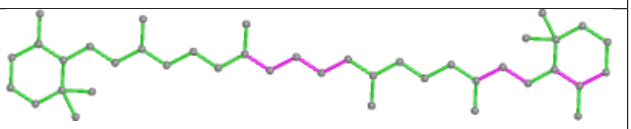


Rings

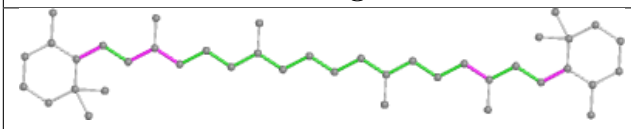
Ligand BCR L 201



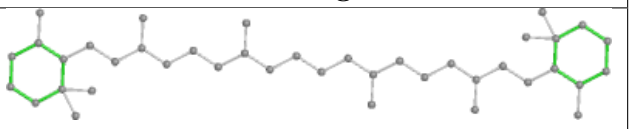
Bond lengths



Bond angles

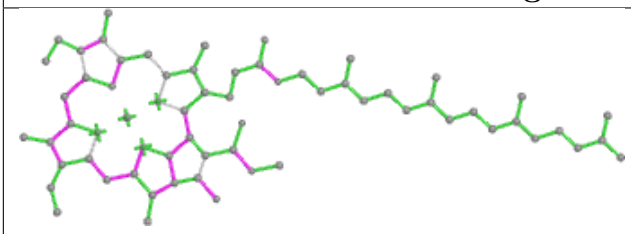


Torsions

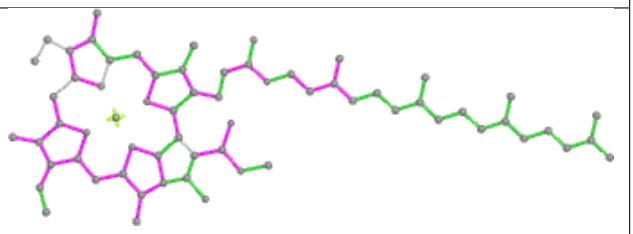


Rings

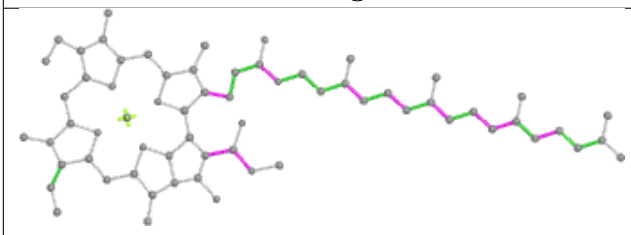
Ligand CLA A 829



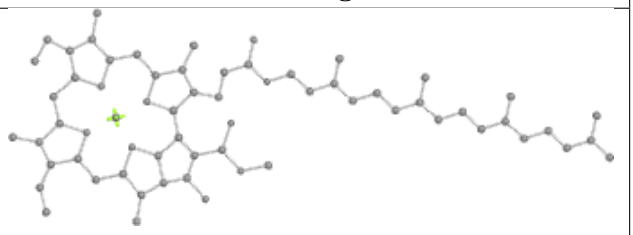
Bond lengths



Bond angles

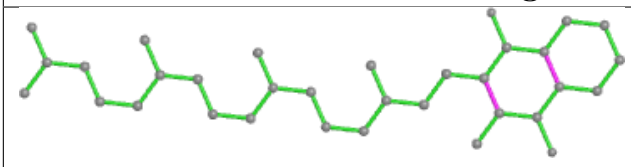


Torsions

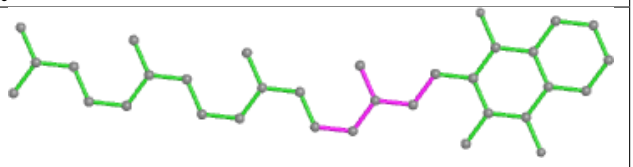


Rings

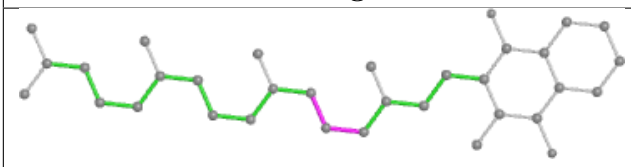
Ligand PQN A 845



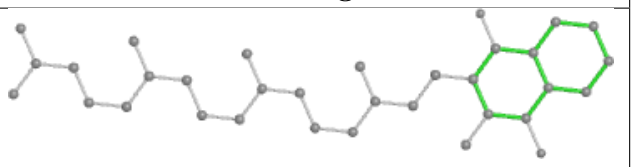
Bond lengths



Bond angles

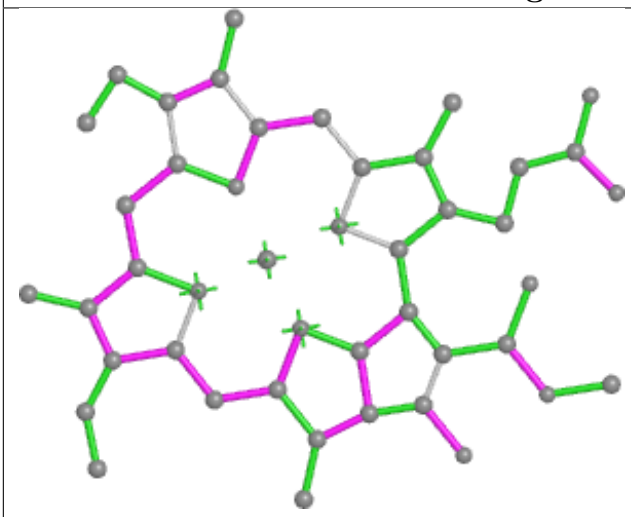


Torsions

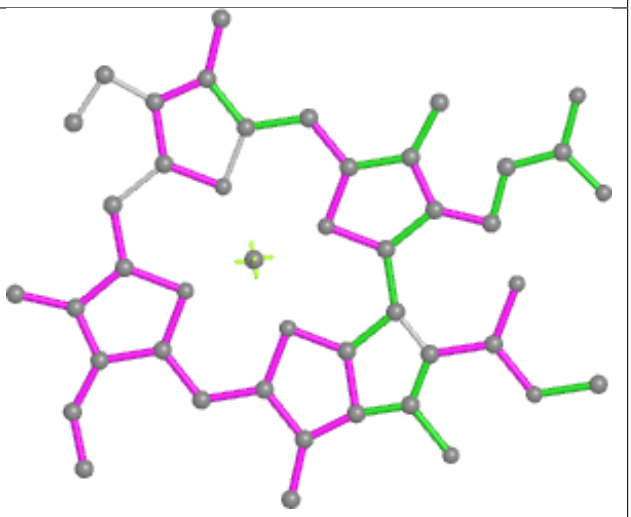


Rings

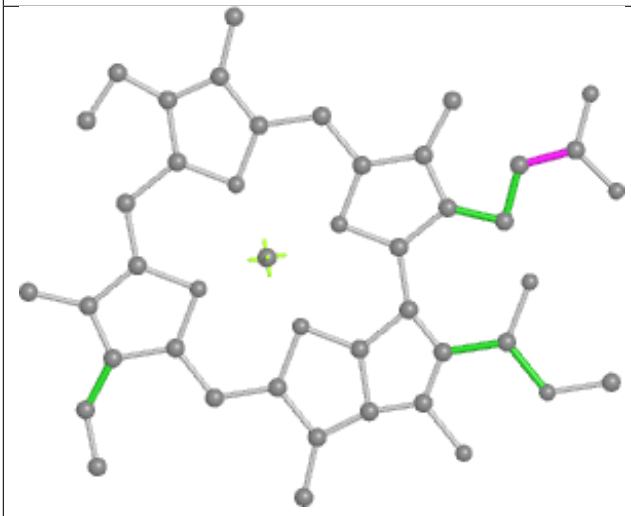
Ligand CLA F 203



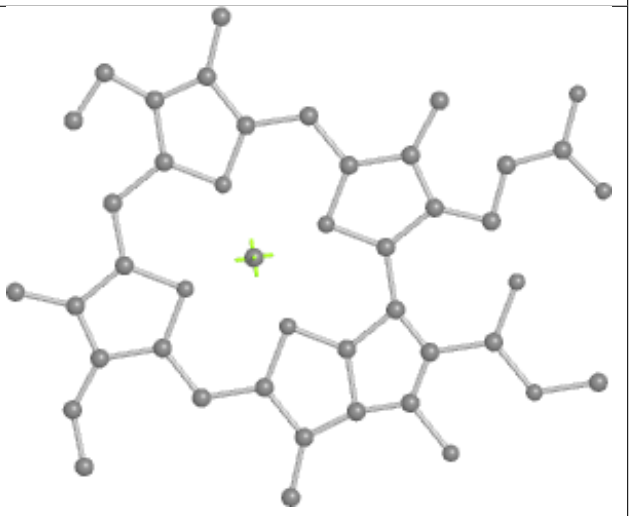
Bond lengths



Bond angles

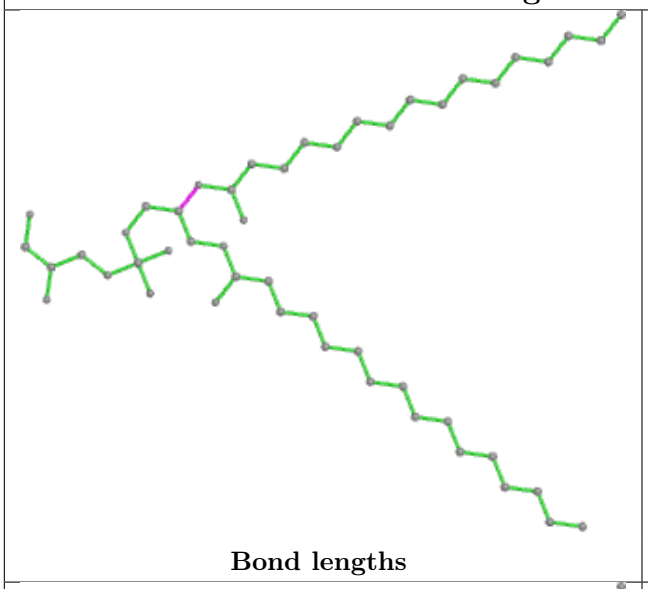


Torsions

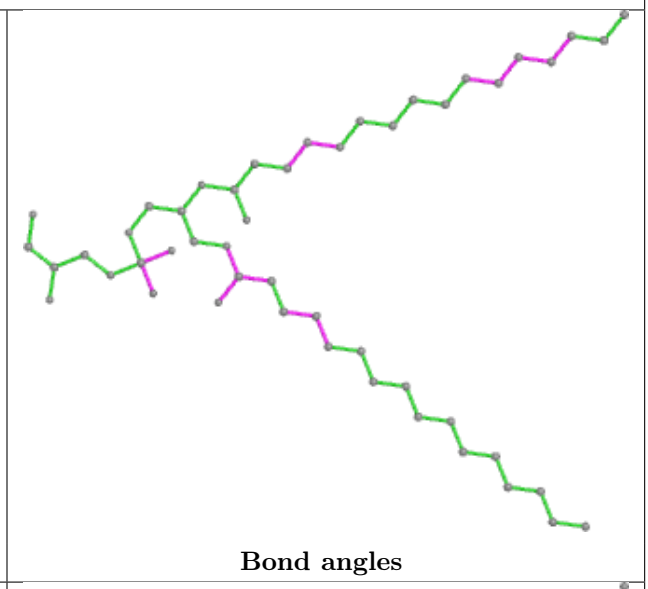


Rings

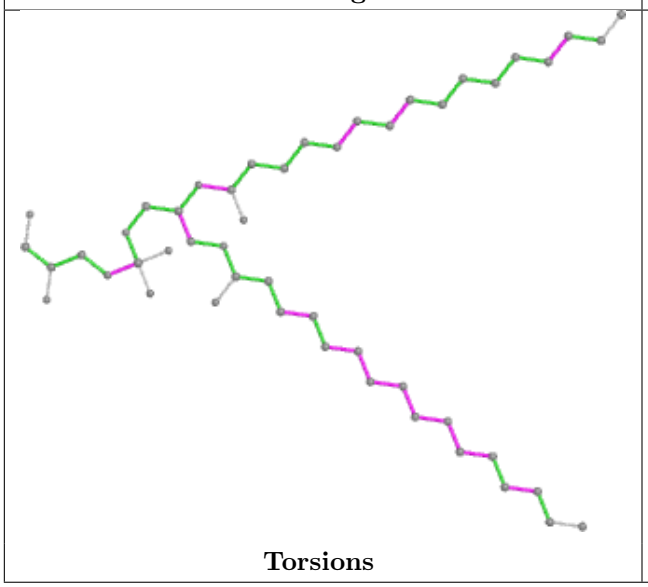
Ligand LHG A 852



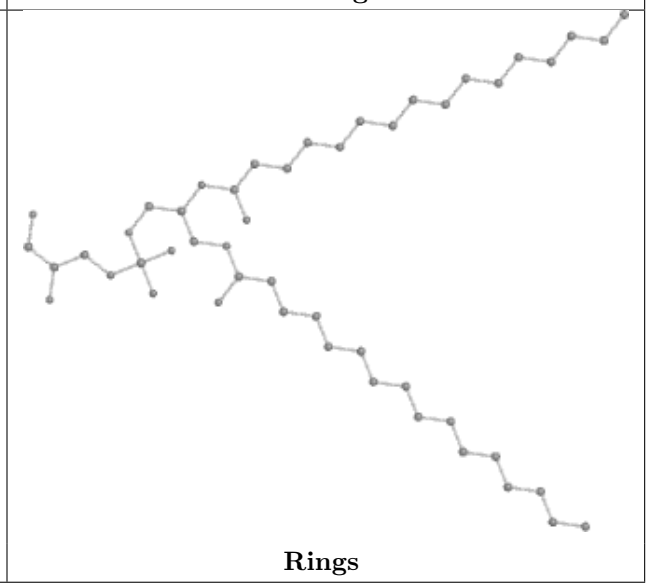
Bond lengths



Bond angles

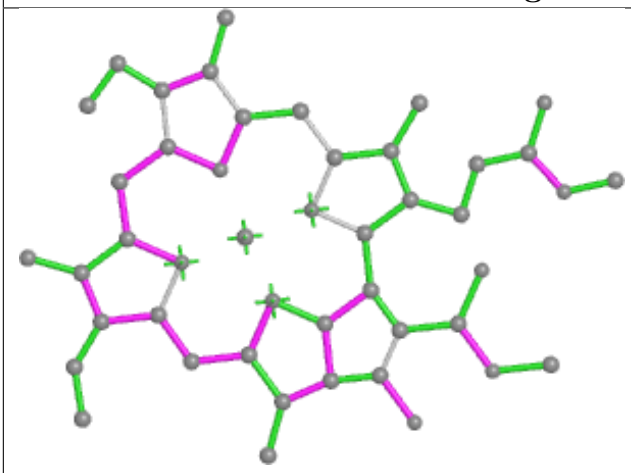


Torsions

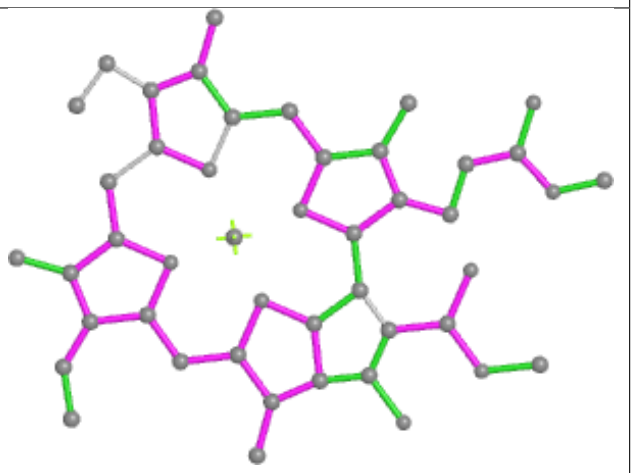


Rings

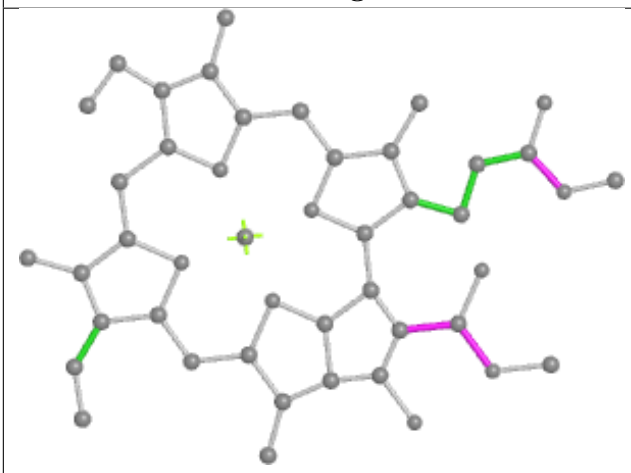
Ligand CLA B 819



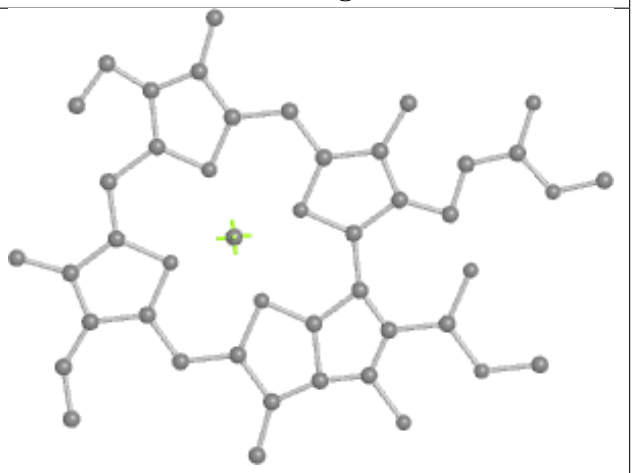
Bond lengths



Bond angles

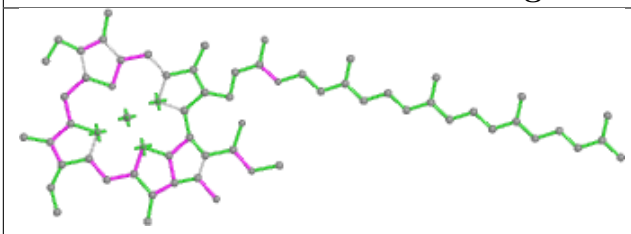


Torsions

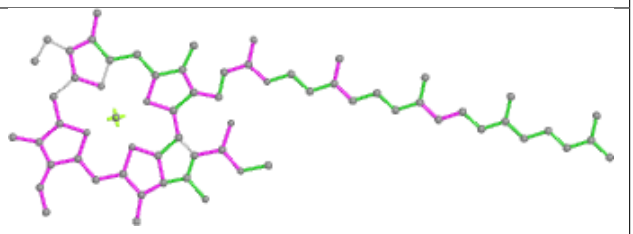


Rings

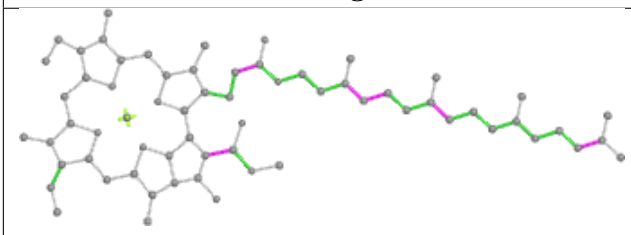
Ligand CLA B 810



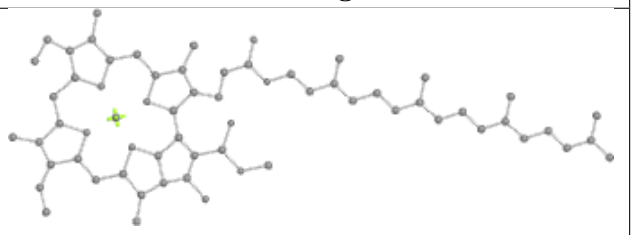
Bond lengths



Bond angles

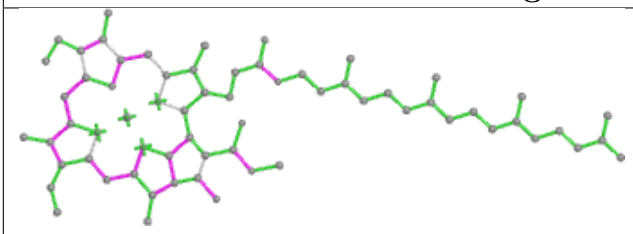


Torsions

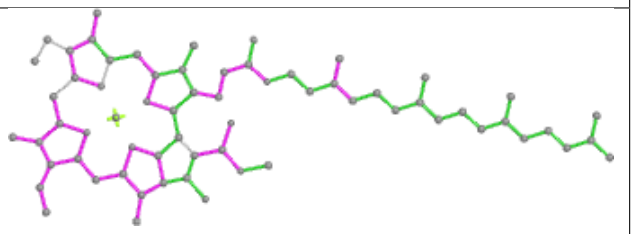


Rings

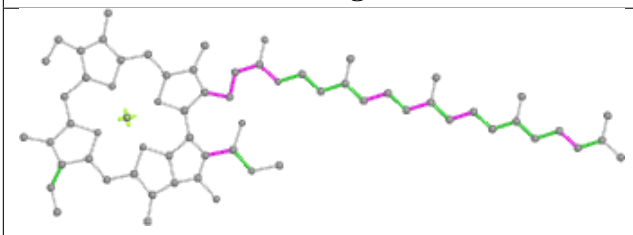
Ligand CLA A 823



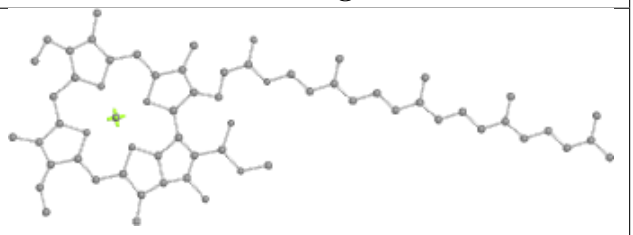
Bond lengths



Bond angles

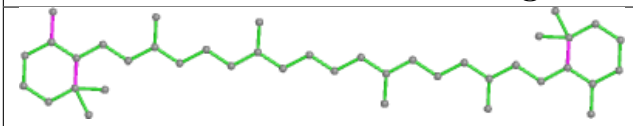


Torsions

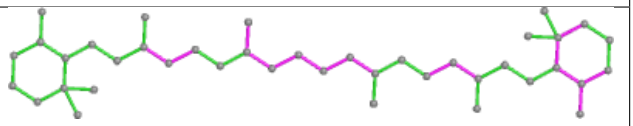


Rings

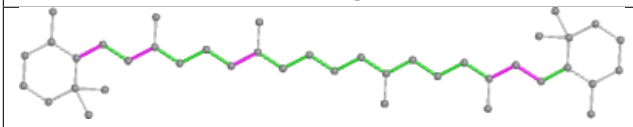
Ligand BCR K 202



Bond lengths



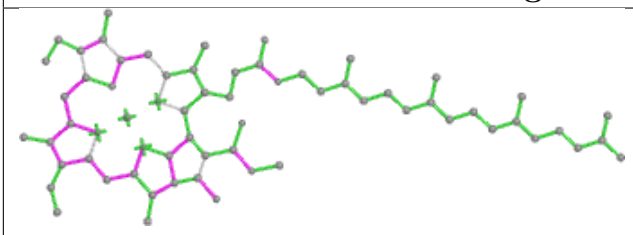
Bond angles



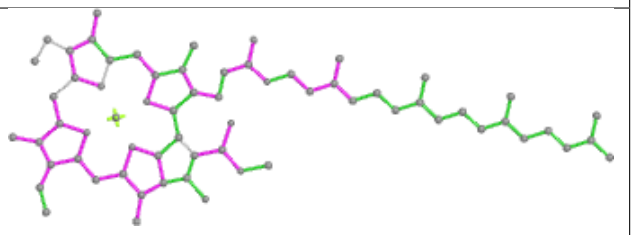
Torsions

Rings

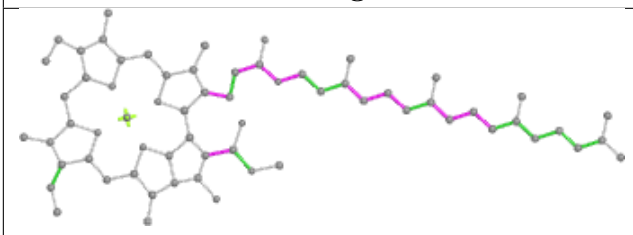
Ligand CLA B 813



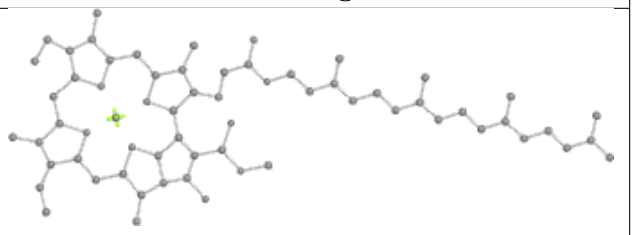
Bond lengths



Bond angles

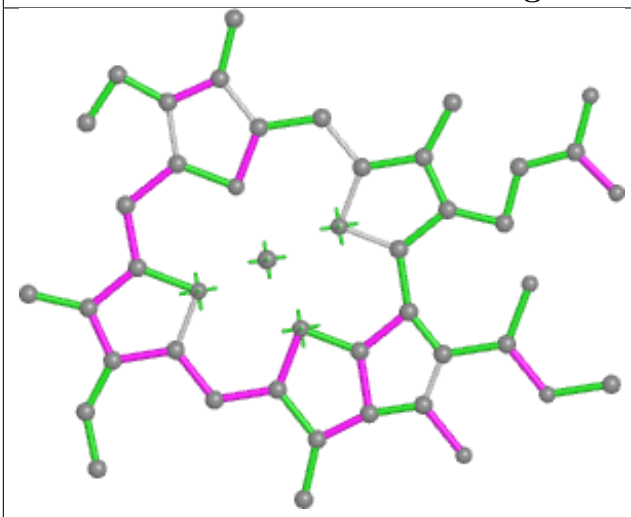


Torsions

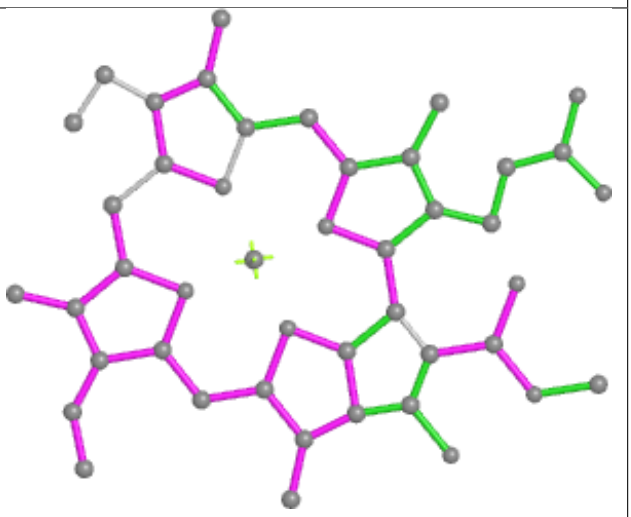


Rings

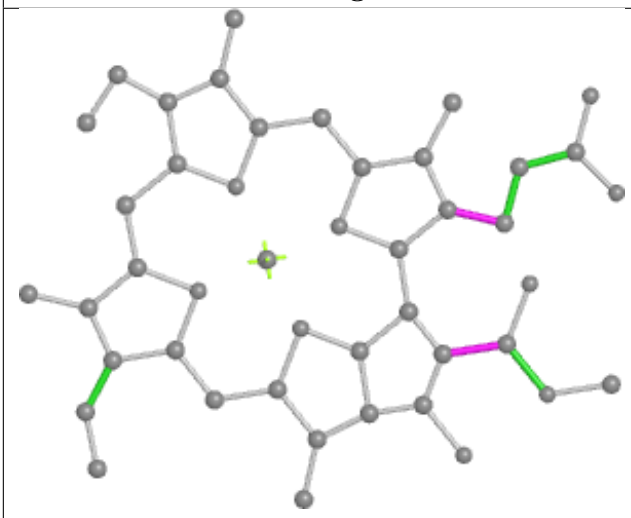
Ligand CLA A 815



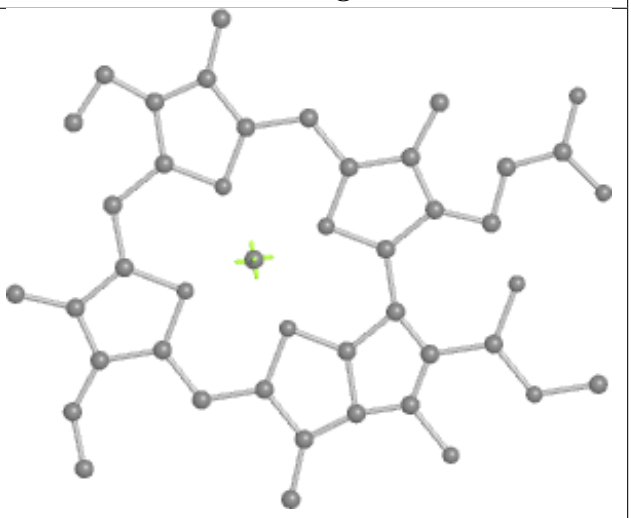
Bond lengths



Bond angles

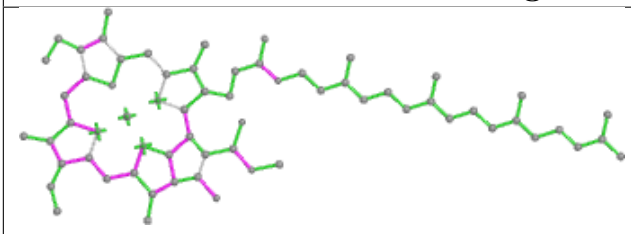


Torsions



Rings

Ligand CLA A 835



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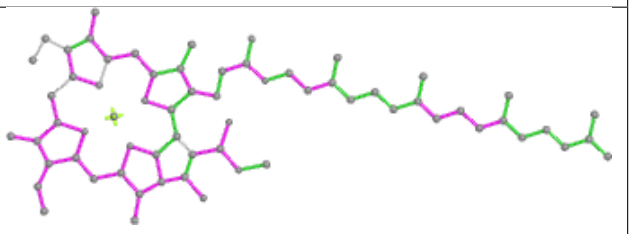
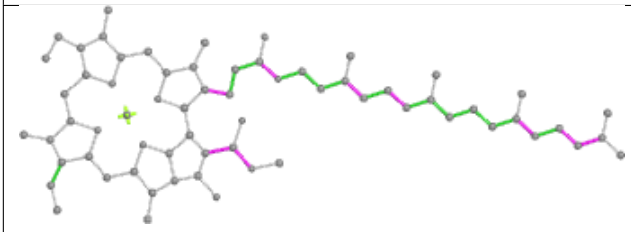
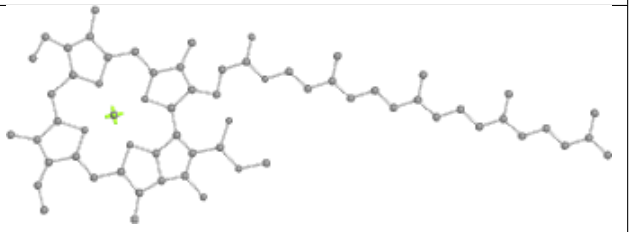


Bond angles

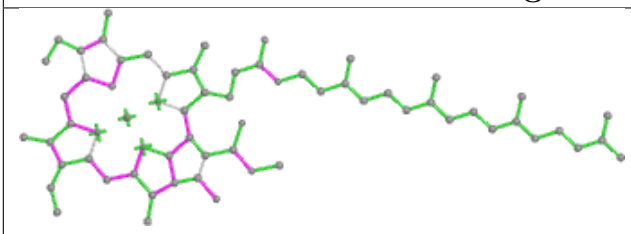


Torsions



Rings

Ligand CLA B 804



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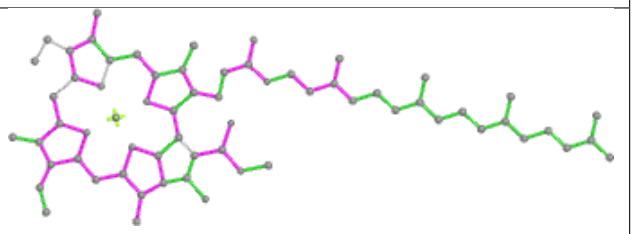
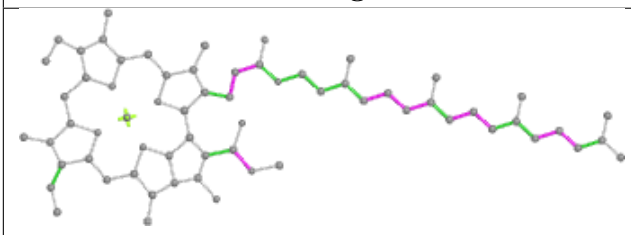
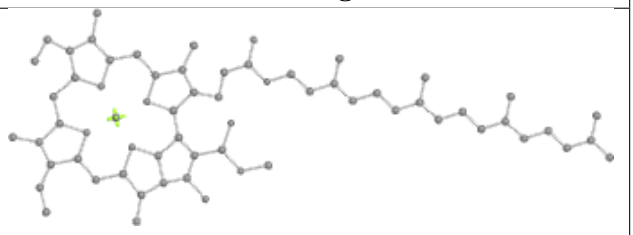


Bond angles

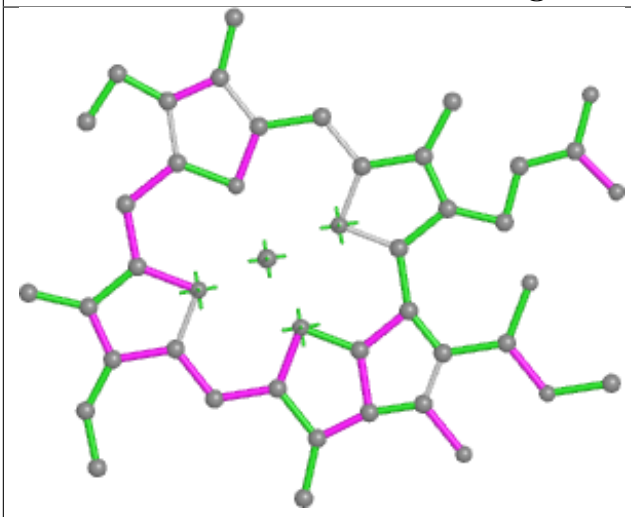


Torsions



Rings

Ligand CLA J 101



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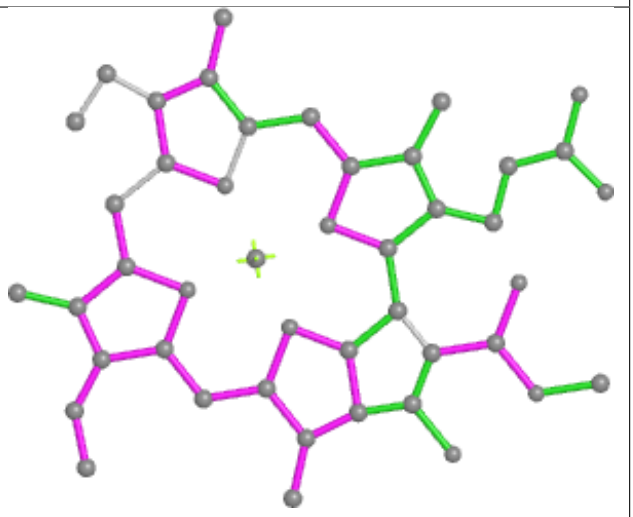
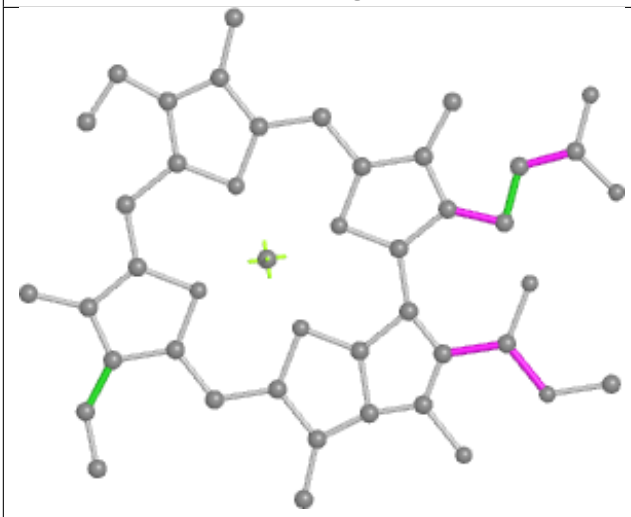


Bond angles



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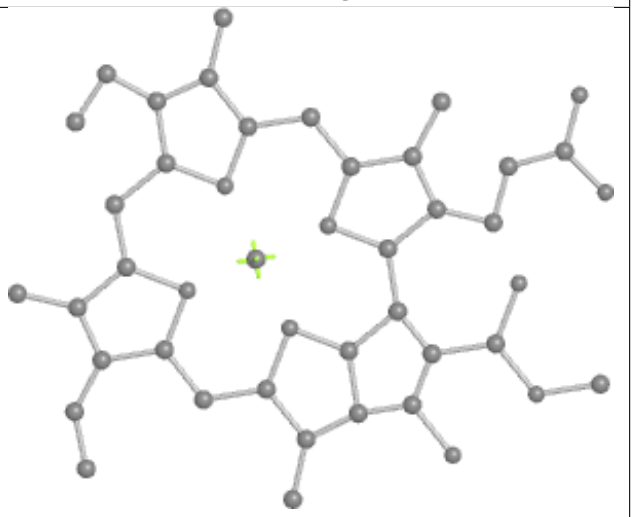
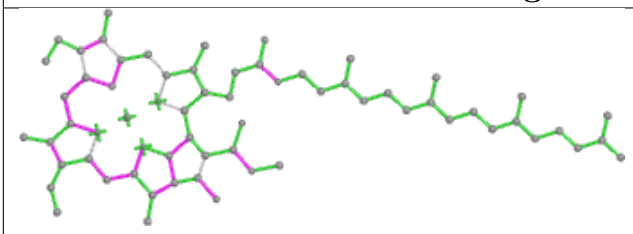
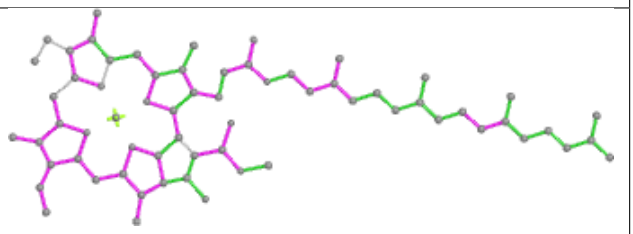


Rings

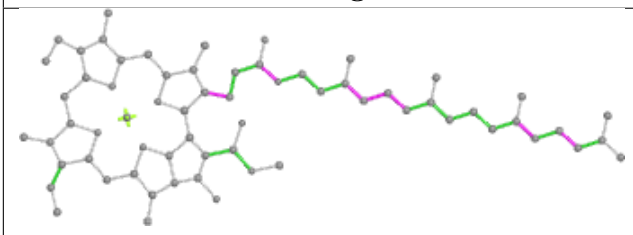
Ligand CLA A 807



Bond lengths



Bond angles



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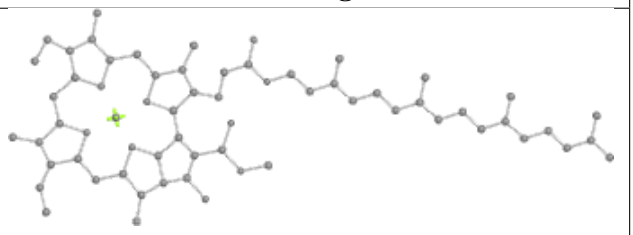
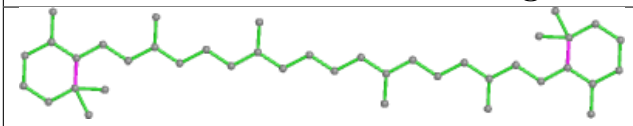


Rings

Ligand BCR A 850



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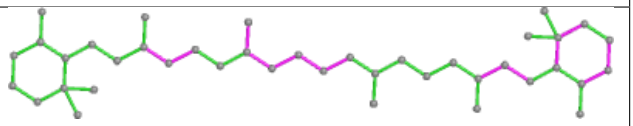
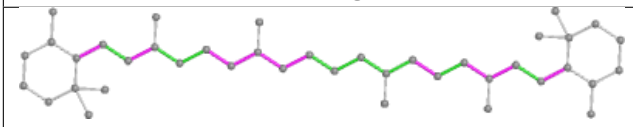


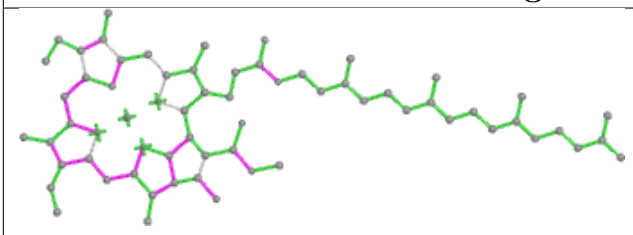
Bond angles



Torsions

Rings

Ligand CLA B 806



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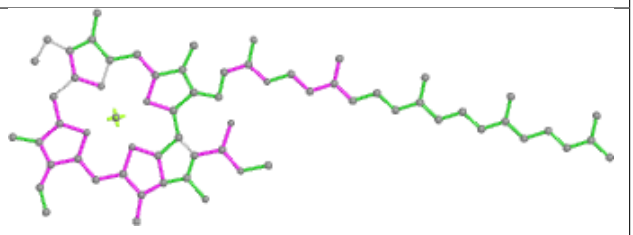
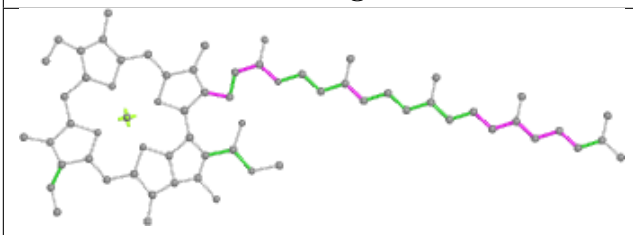
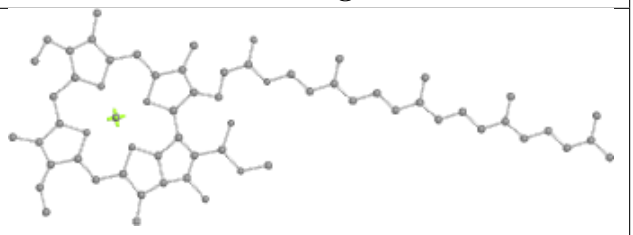


Bond angles

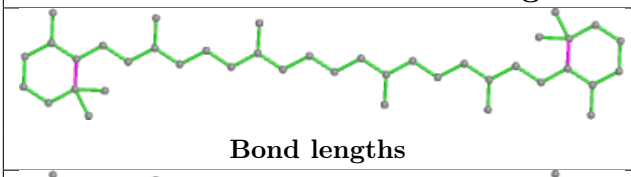


Torsions

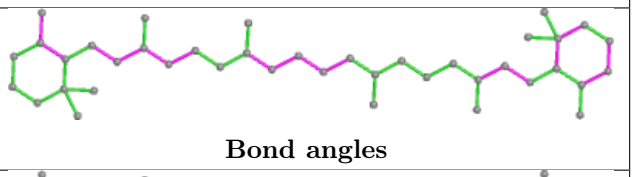


Rings

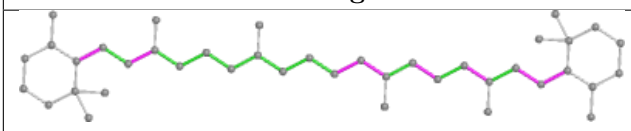
Ligand BCR A 847



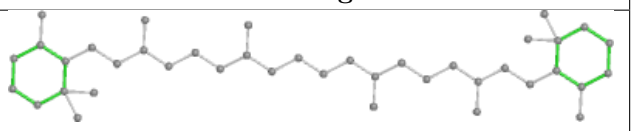
Bond lengths



Bond angles

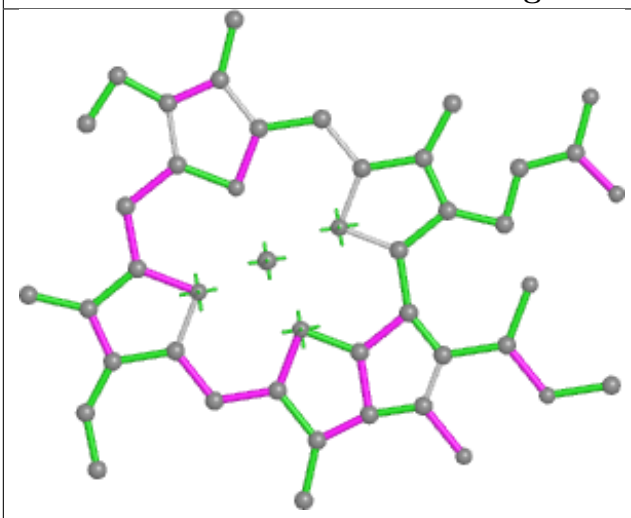


Torsions



Rings

Ligand CLA A 804



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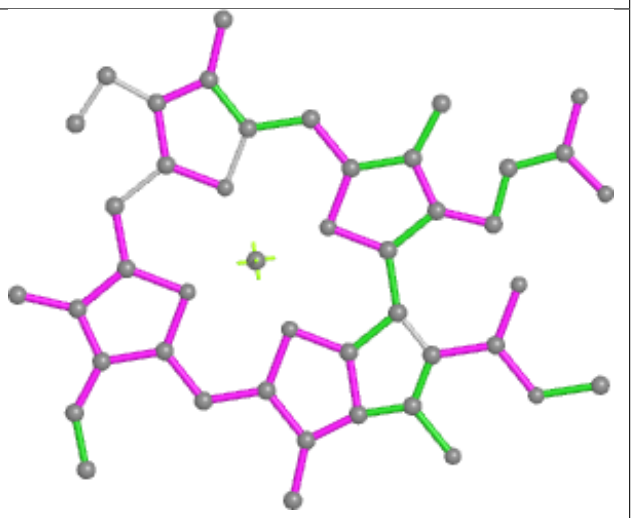
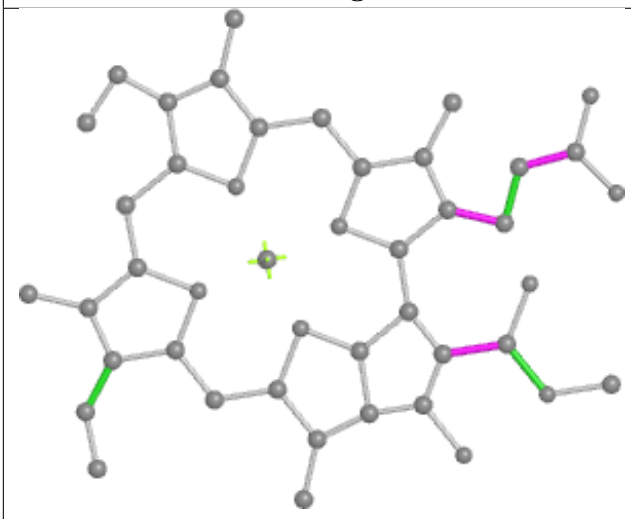
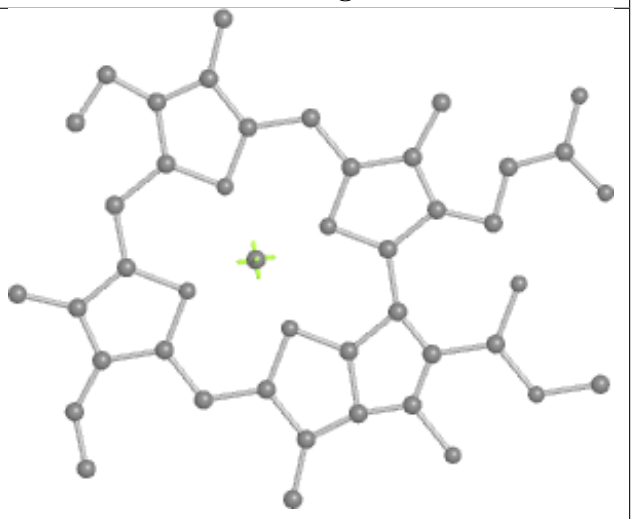


Bond angles

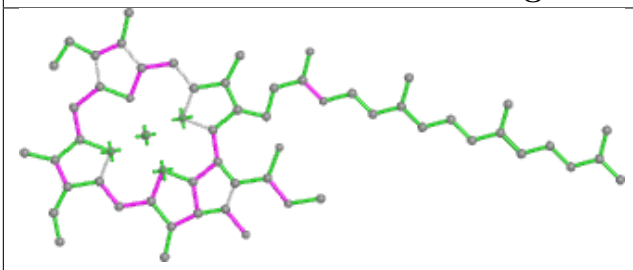


Torsions

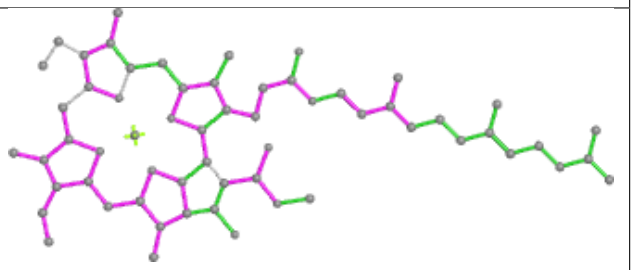


Rings

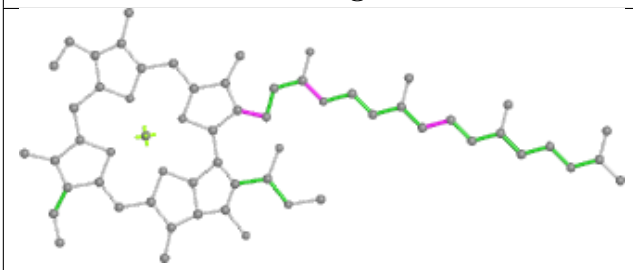
Ligand CLA B 818



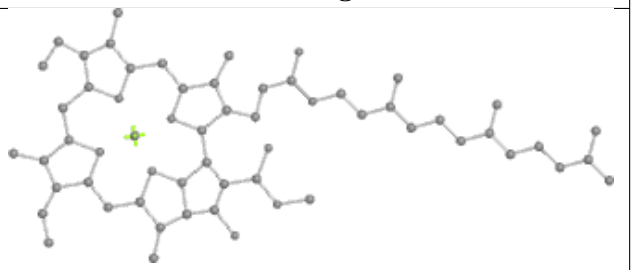
Bond lengths



Bond angles

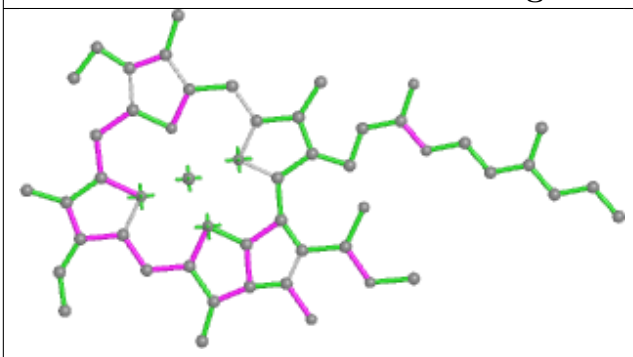


Torsions



Rings

Ligand CLA L 204



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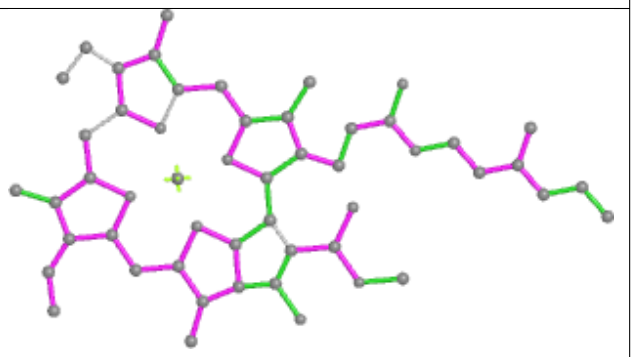
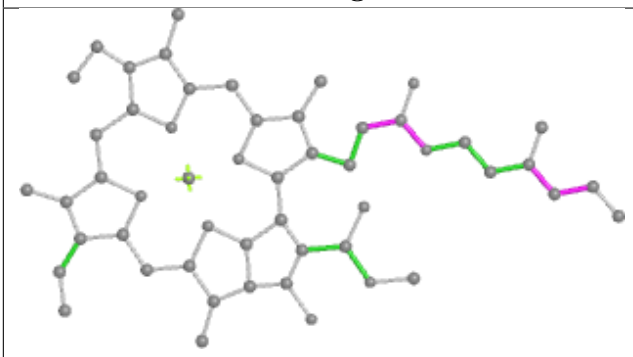
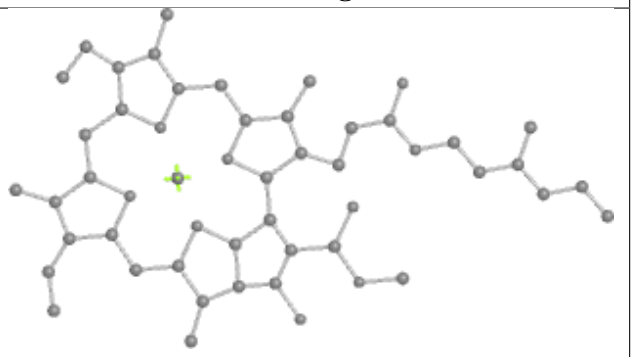


Bond angles

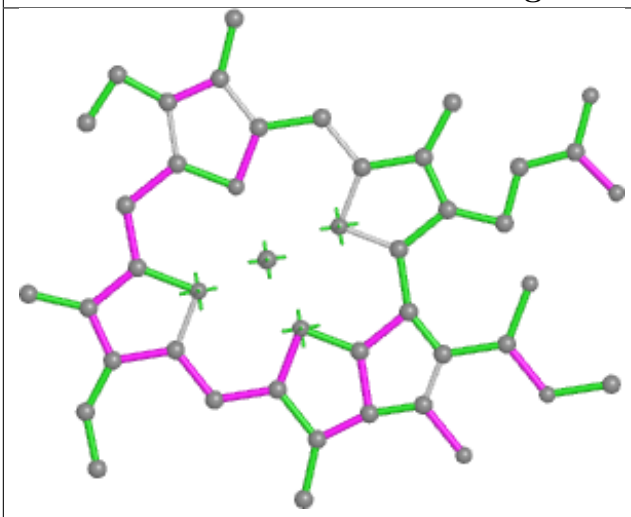


Torsions

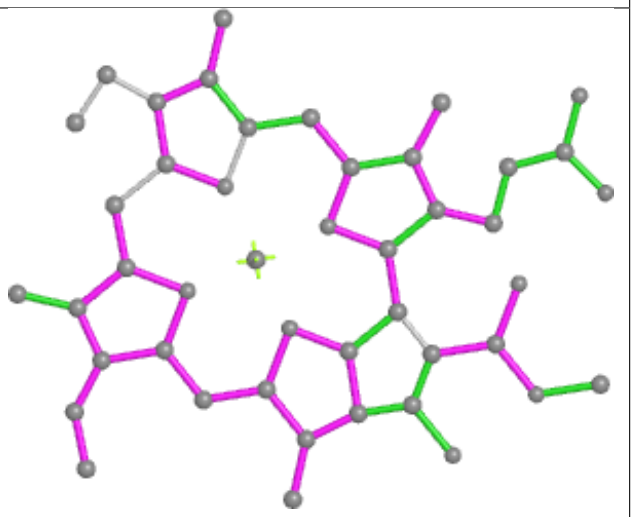


Rings

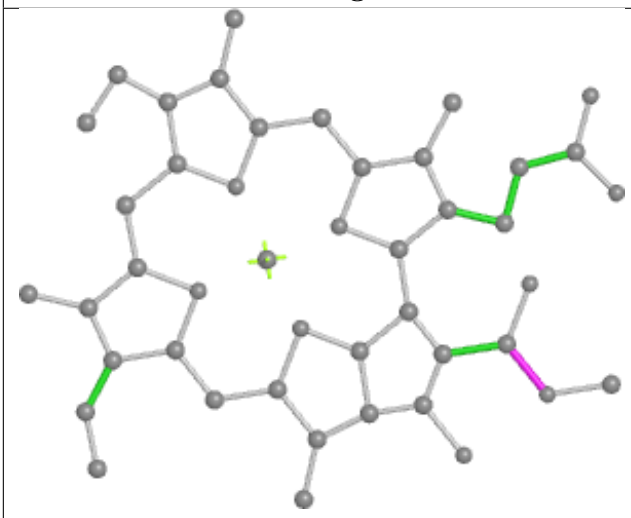
Ligand CLA B 812



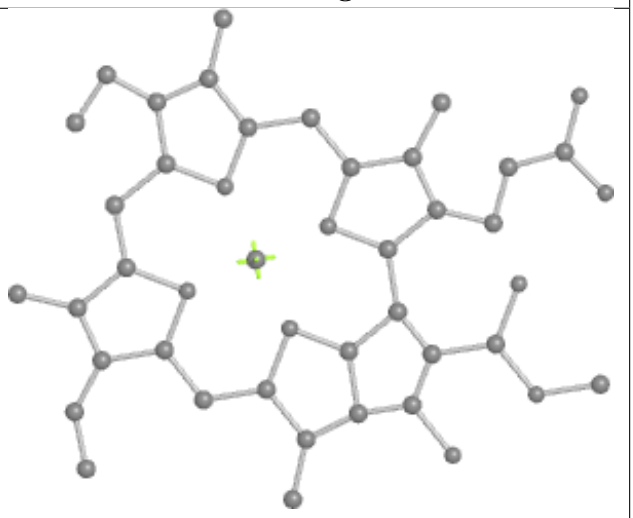
Bond lengths



Bond angles

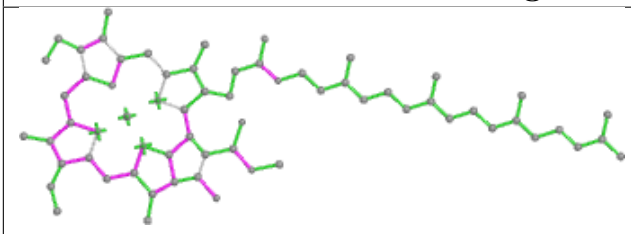


Torsions

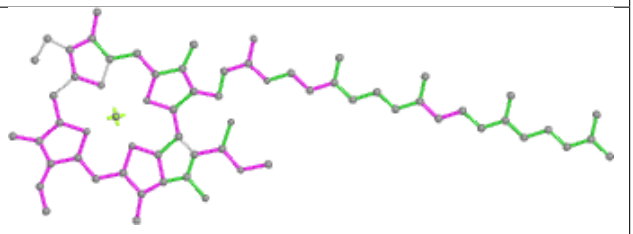


Rings

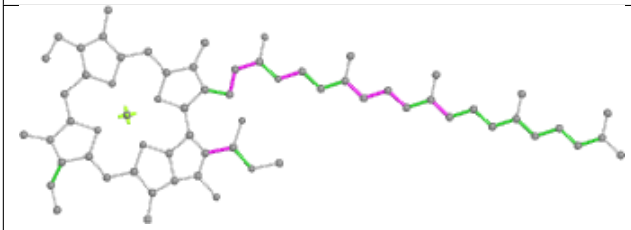
Ligand CLA A 841



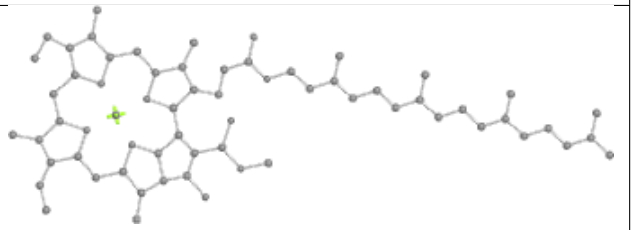
Bond lengths



Bond angles

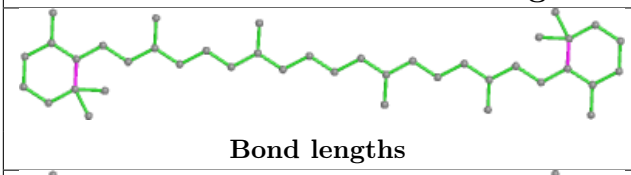


Torsions

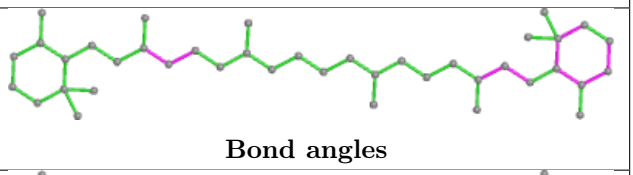


Rings

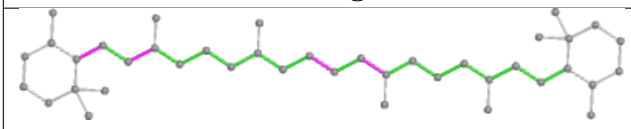
Ligand BCR I 101



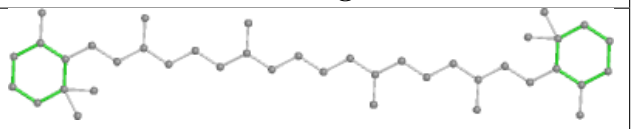
Bond lengths



Bond angles

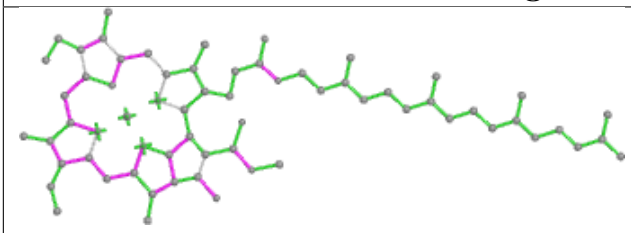


Torsions

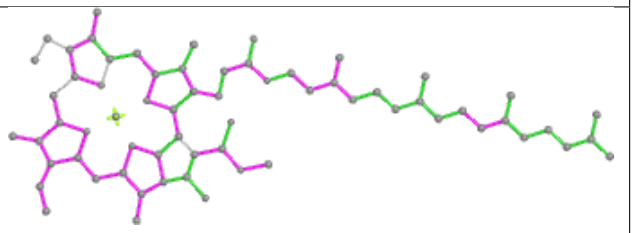


Rings

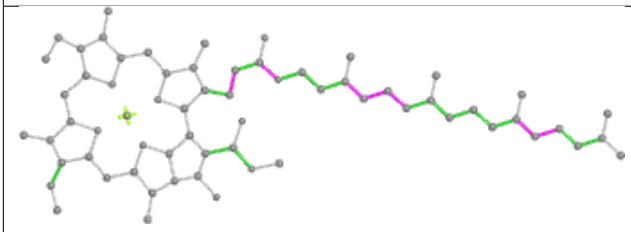
Ligand CLA B 801



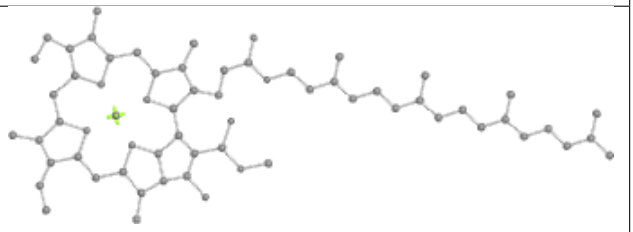
Bond lengths



Bond angles

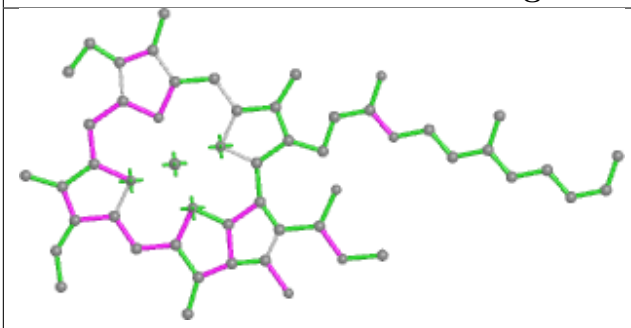


Torsions

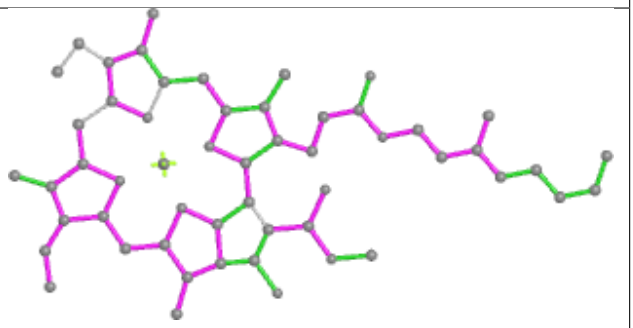


Rings

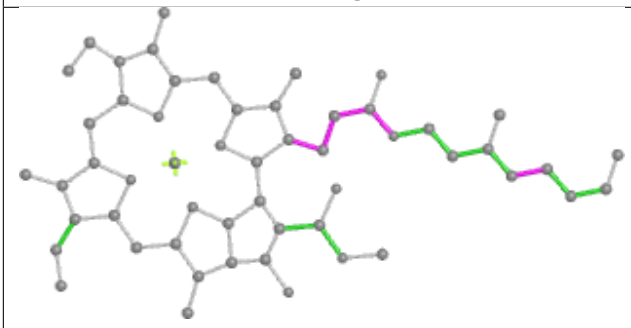
Ligand CLA A 819



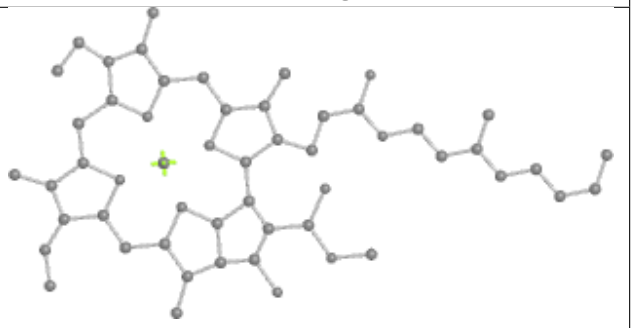
Bond lengths



Bond angles

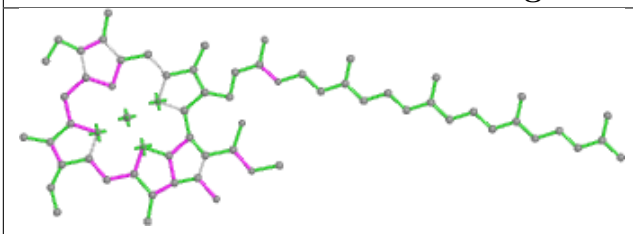


Torsions

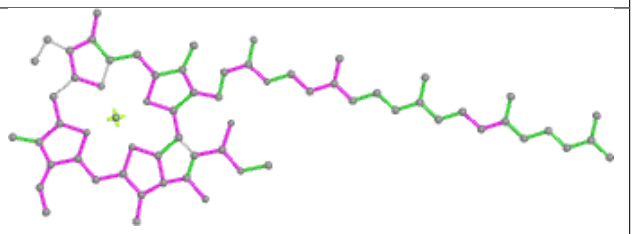


Rings

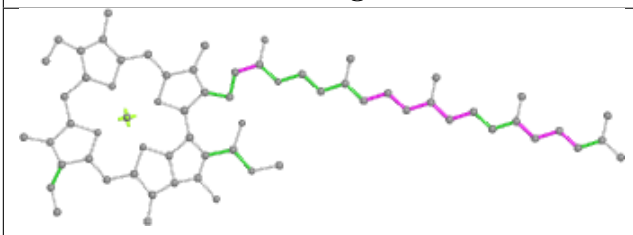
Ligand CLA B 807



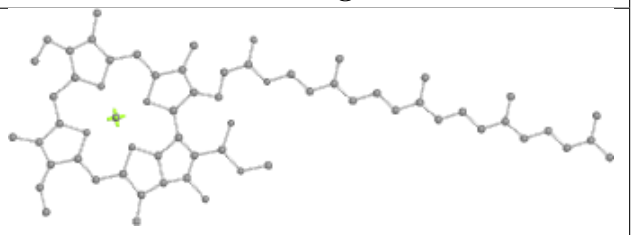
Bond lengths



Bond angles

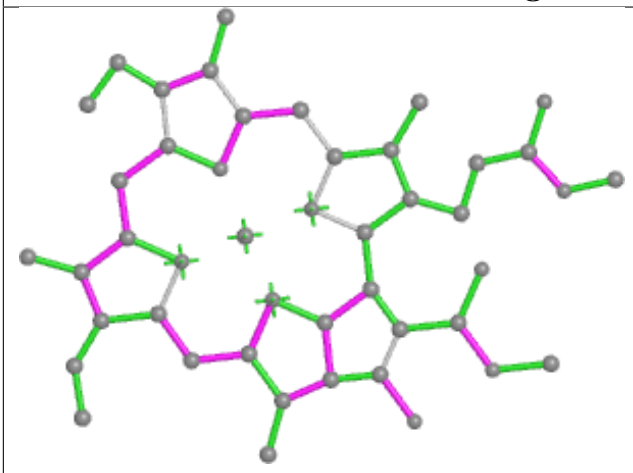


Torsions

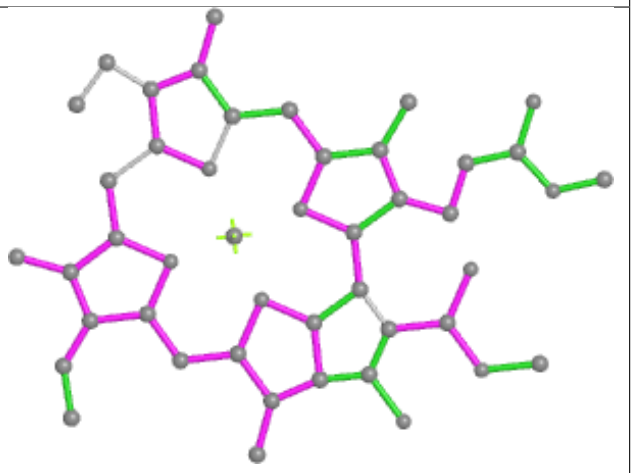


Rings

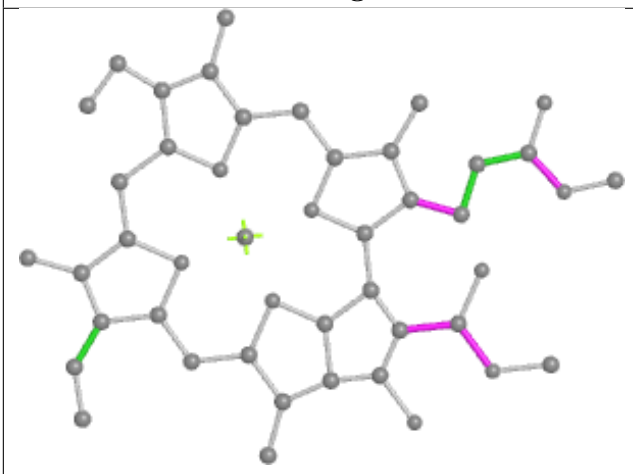
Ligand CLA B 829



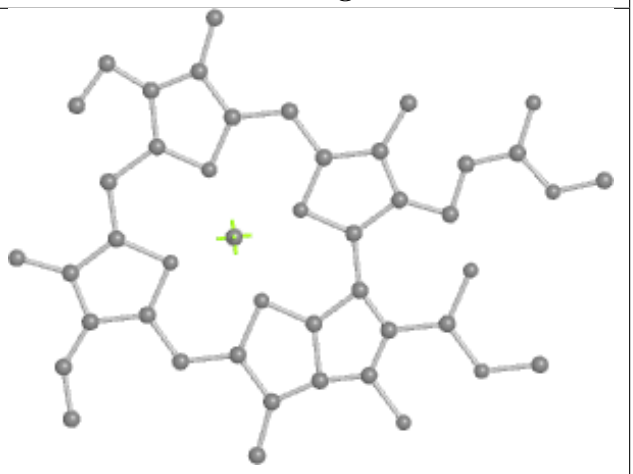
Bond lengths



Bond angles

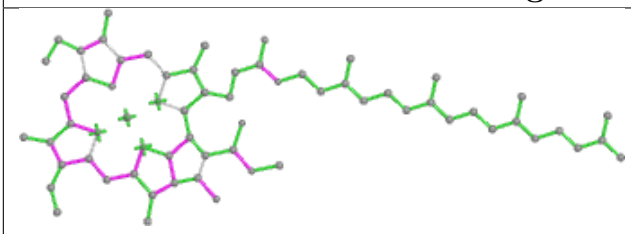


Torsions

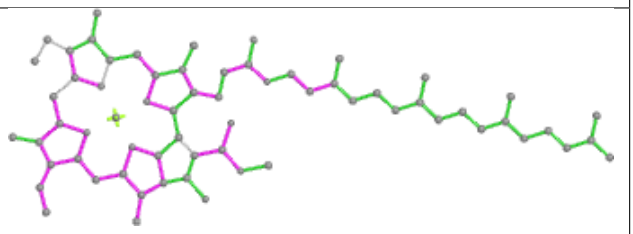


Rings

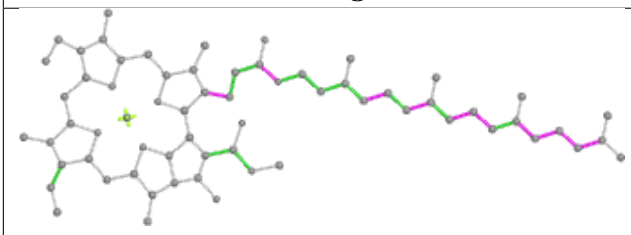
Ligand CLA L 203



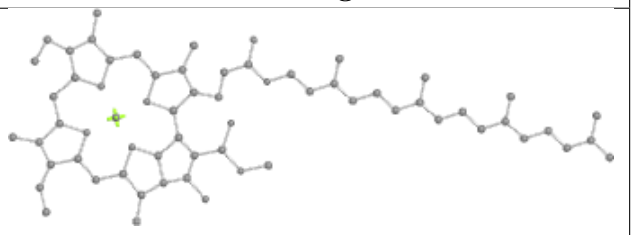
Bond lengths



Bond angles

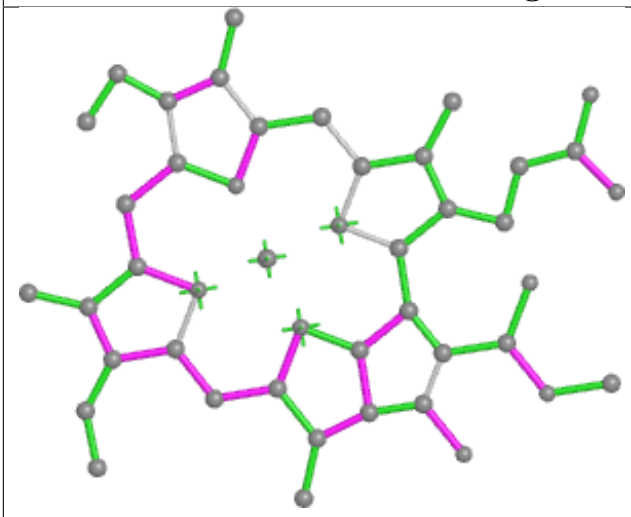


Torsions

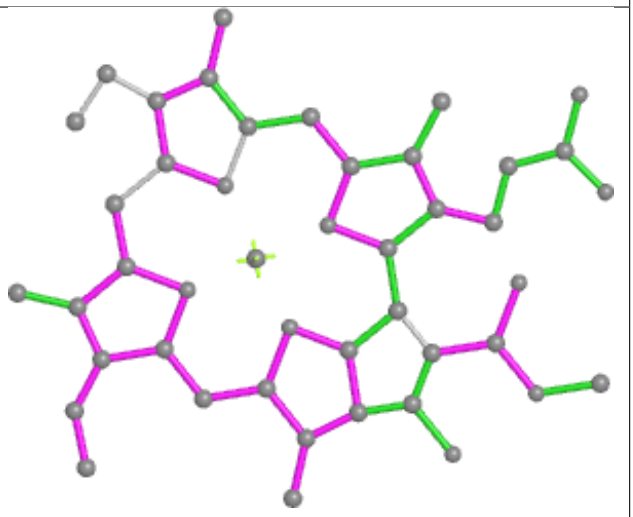


Rings

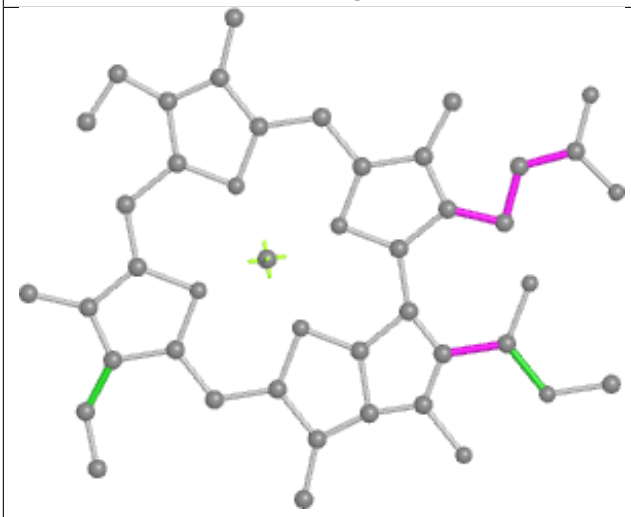
Ligand CLA A 816



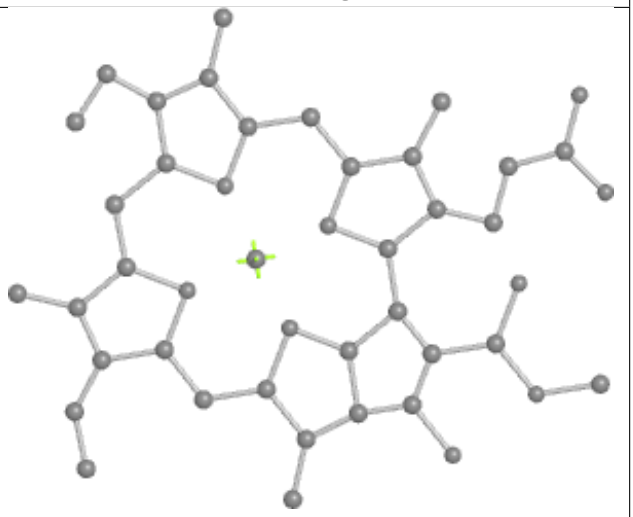
Bond lengths



Bond angles

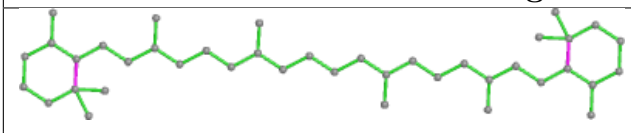


Torsions

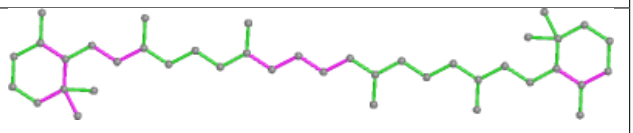


Rings

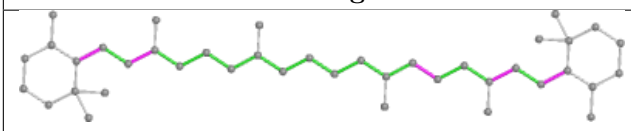
Ligand BCR J 104



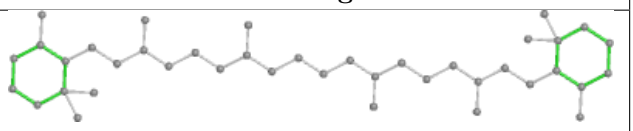
Bond lengths



Bond angles

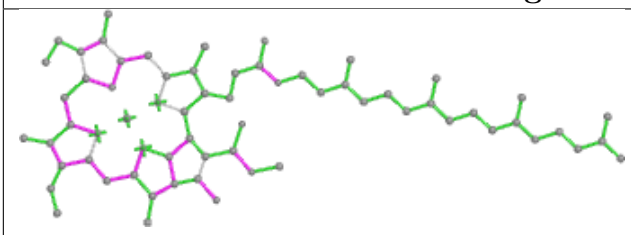


Torsions

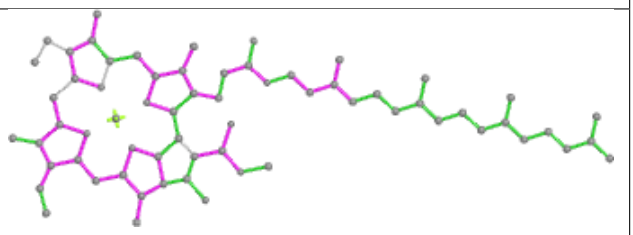


Rings

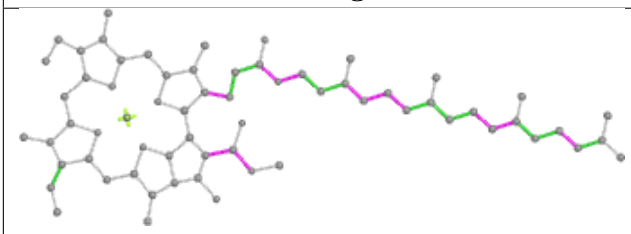
Ligand CLA B 823



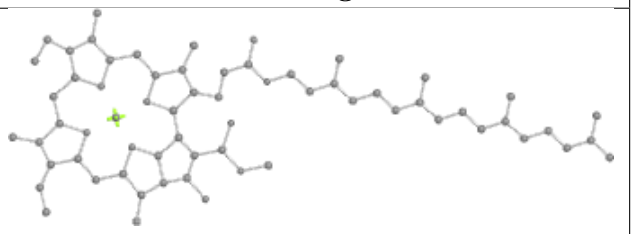
Bond lengths



Bond angles

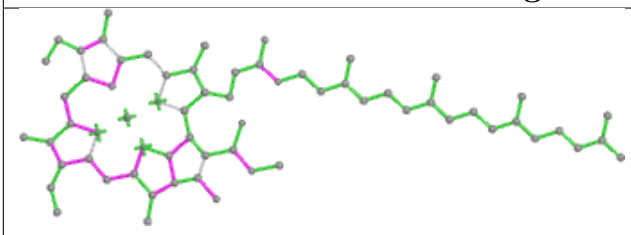


Torsions

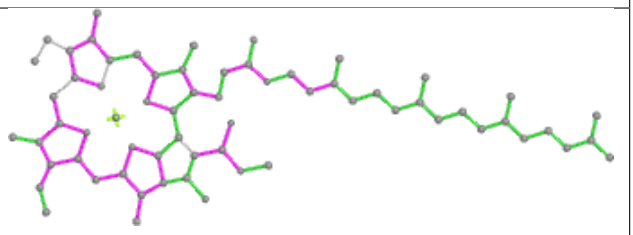


Rings

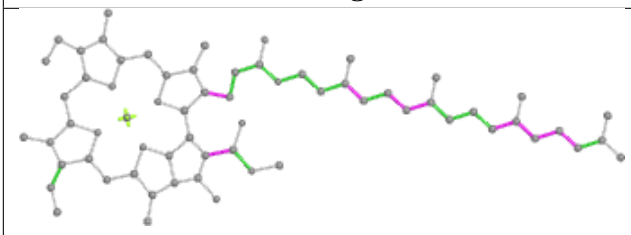
Ligand CLA A 831



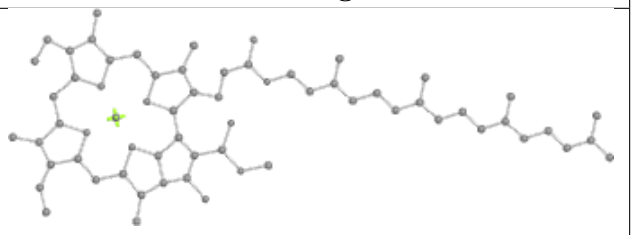
Bond lengths



Bond angles

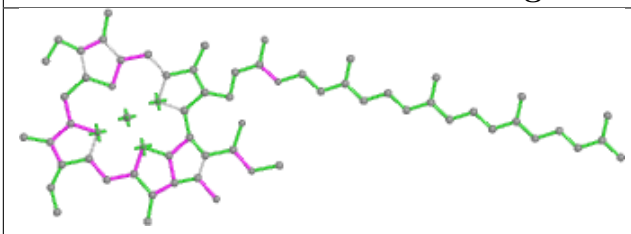


Torsions

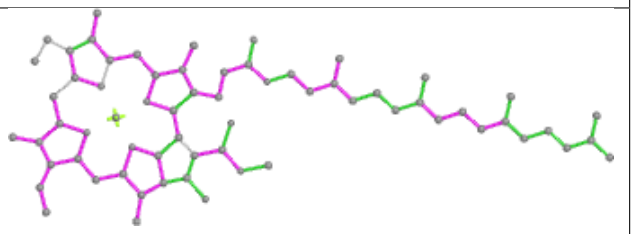


Rings

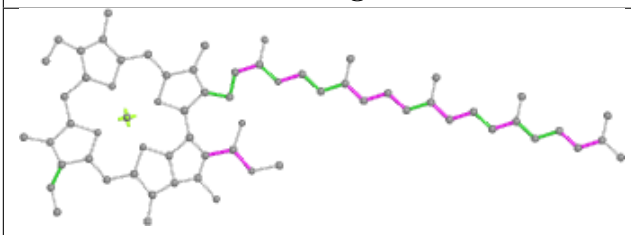
Ligand CLA B 802



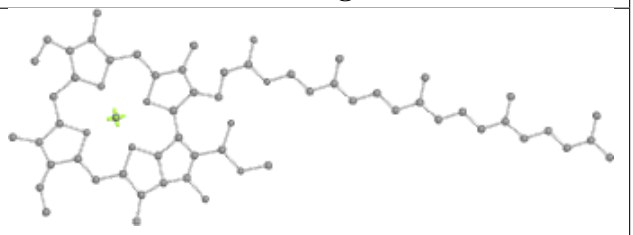
Bond lengths



Bond angles

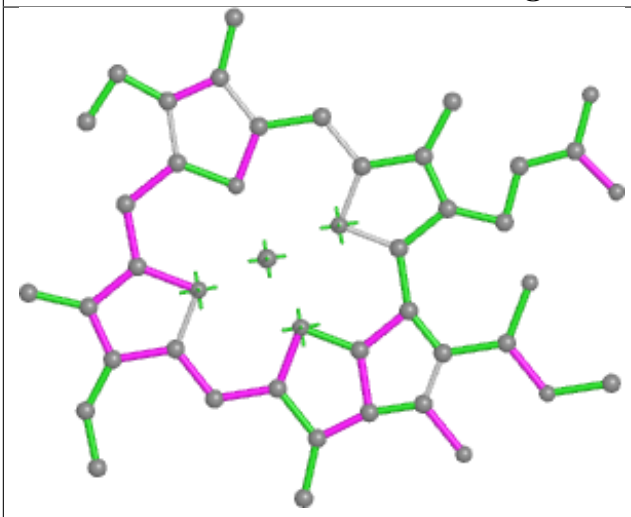


Torsions

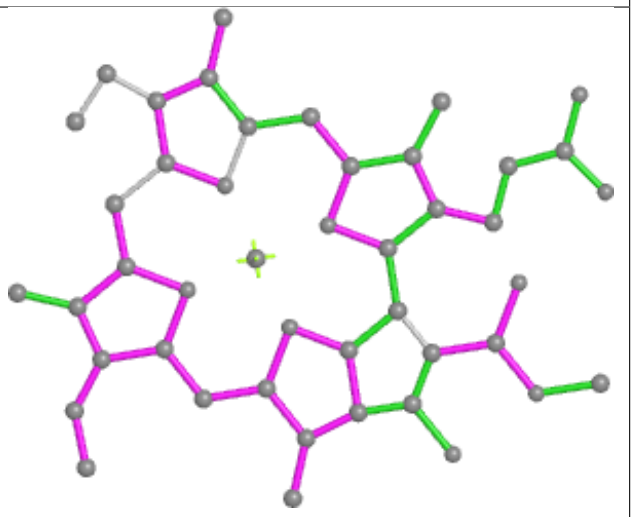


Rings

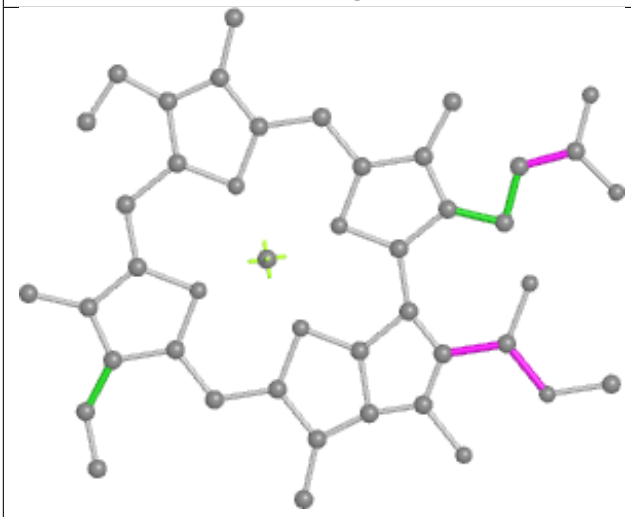
Ligand CLA B 815



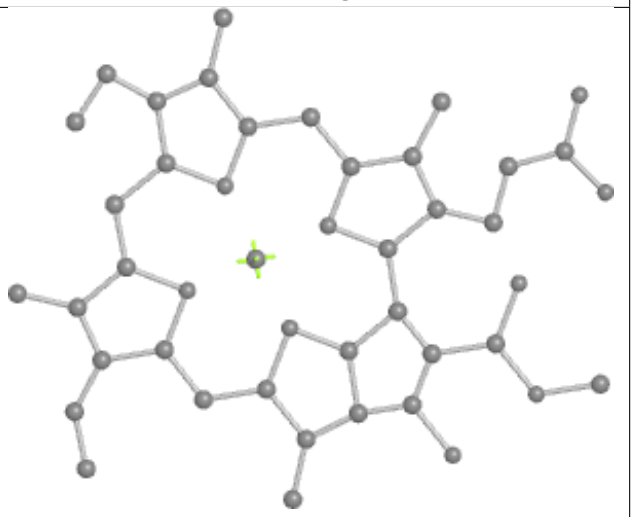
Bond lengths



Bond angles

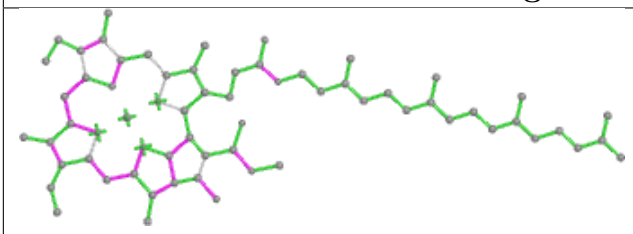


Torsions

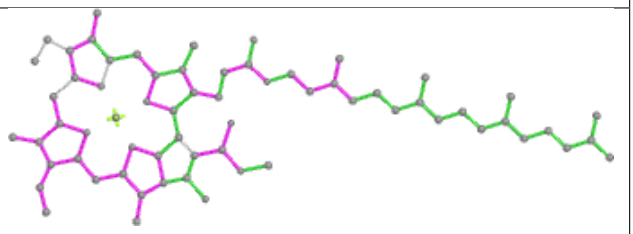


Rings

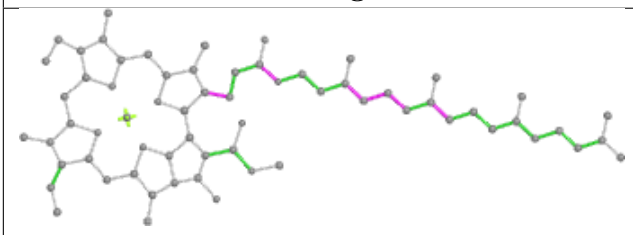
Ligand CLA A 833



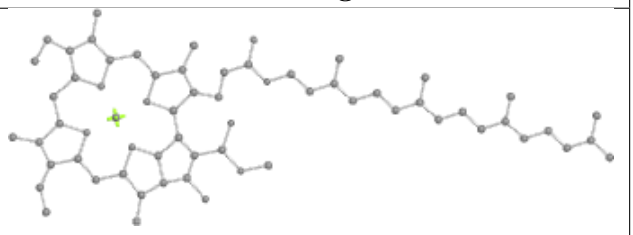
Bond lengths



Bond angles

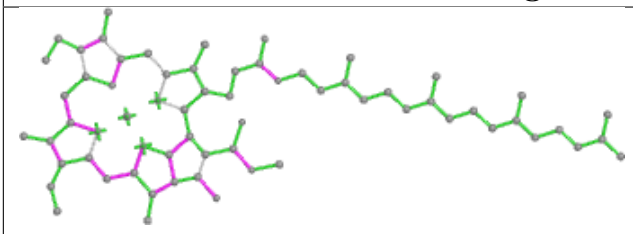


Torsions

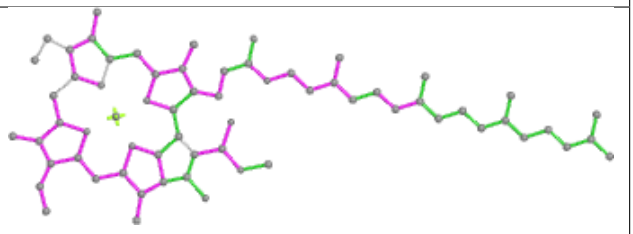


Rings

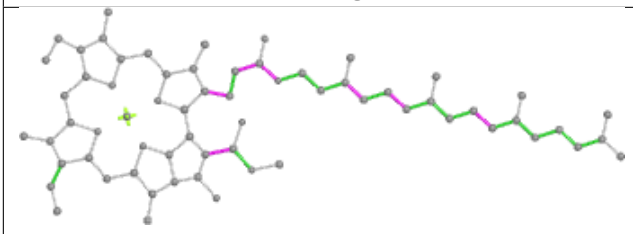
Ligand CLA A 806



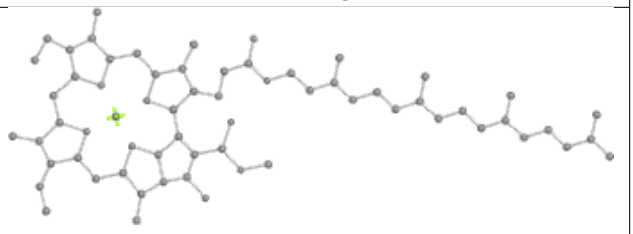
Bond lengths



Bond angles

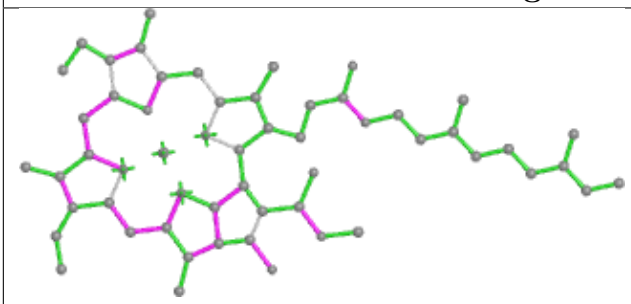


Torsions

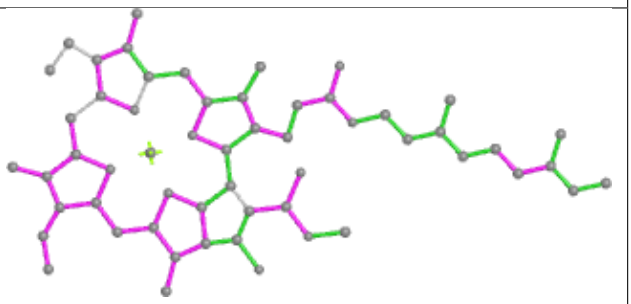


Rings

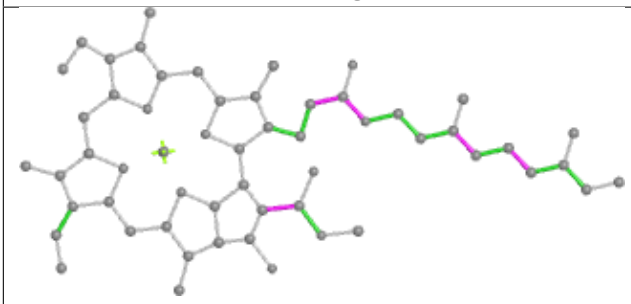
Ligand CLA A 839



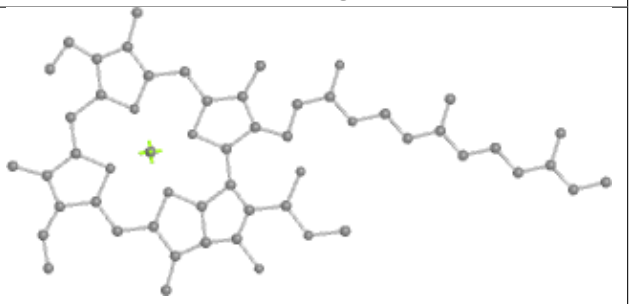
Bond lengths



Bond angles

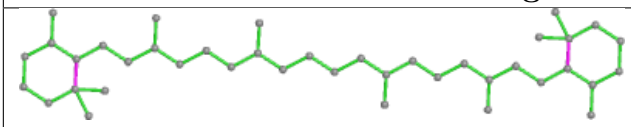


Torsions

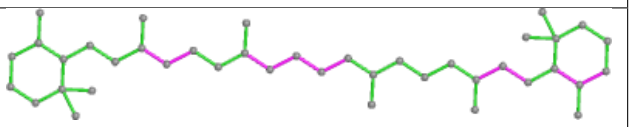


Rings

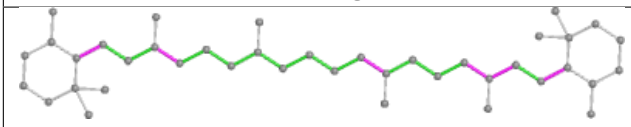
Ligand BCR B 835



Bond lengths



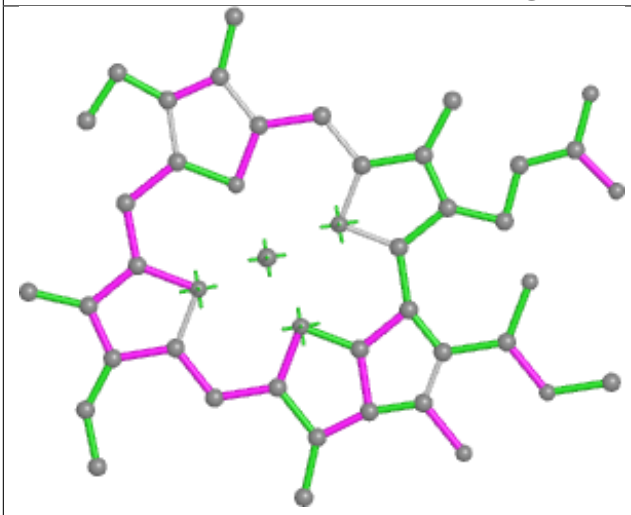
Bond angles



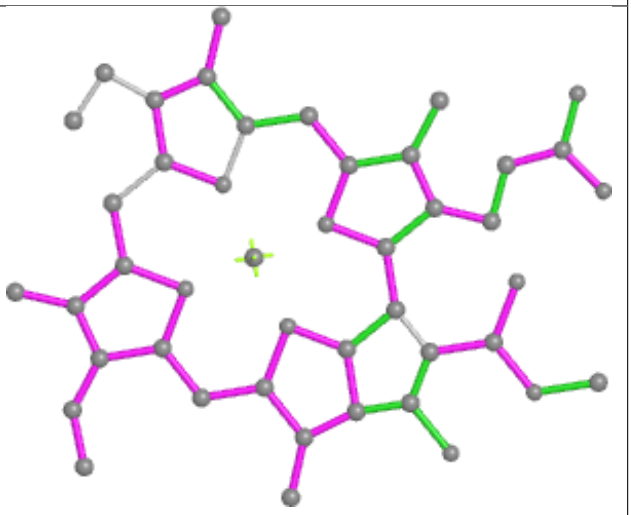
Torsions

Rings

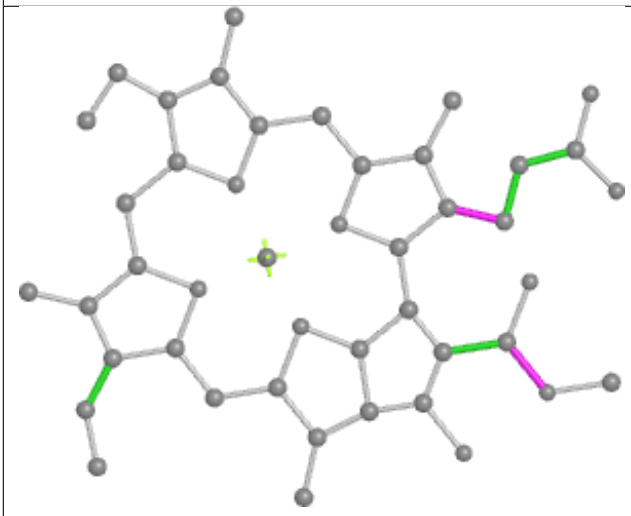
Ligand CLA K 203



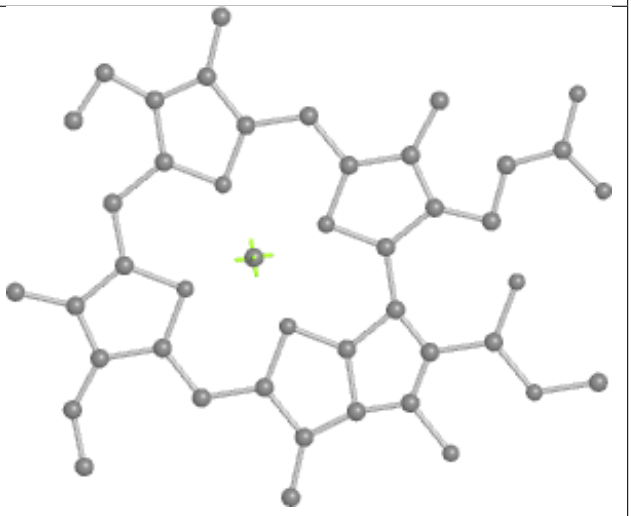
Bond lengths



Bond angles

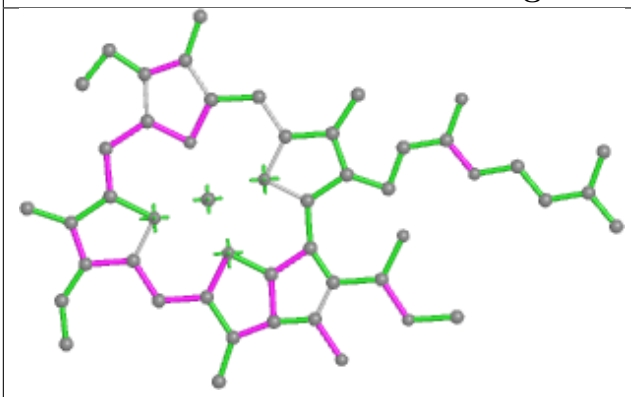


Torsions

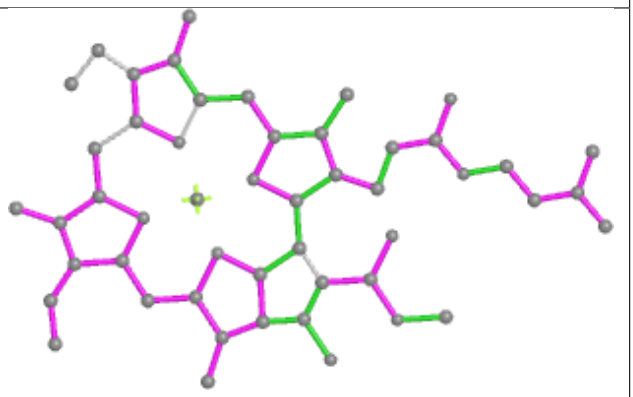


Rings

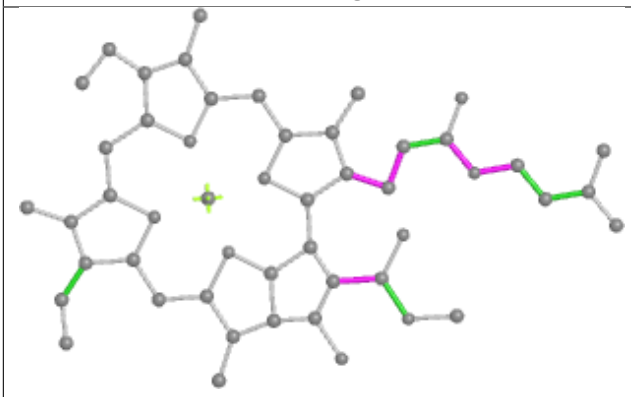
Ligand CLA A 832



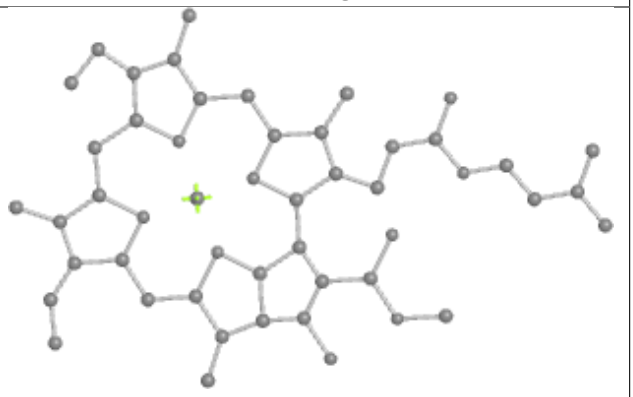
Bond lengths



Bond angles

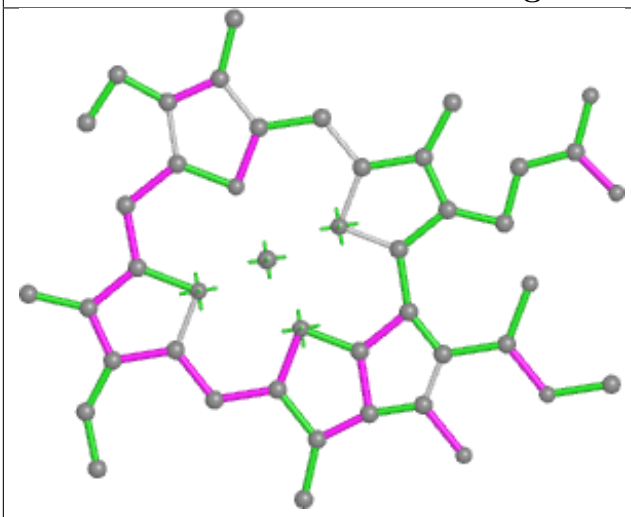


Torsions

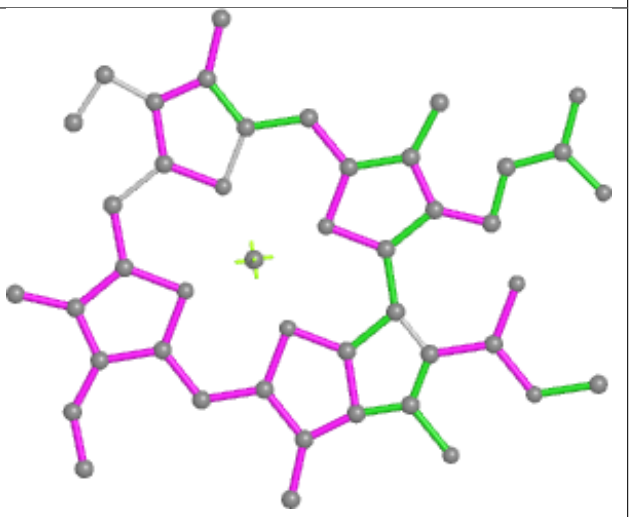


Rings

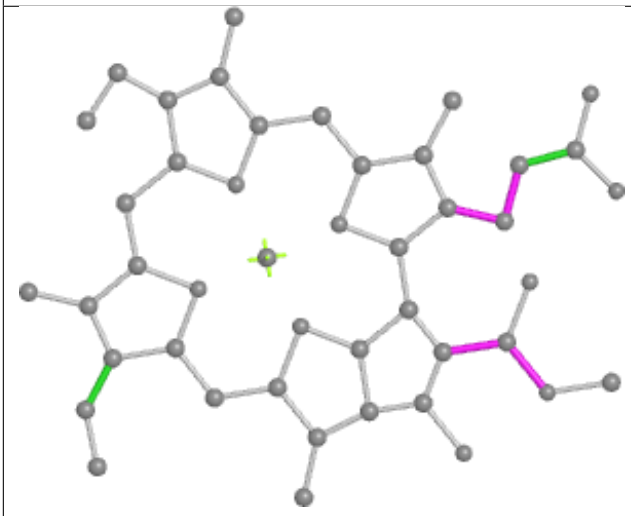
Ligand CLA A 837



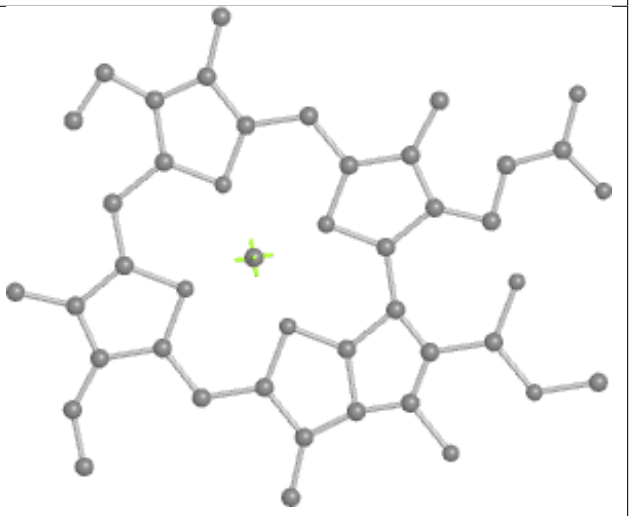
Bond lengths



Bond angles

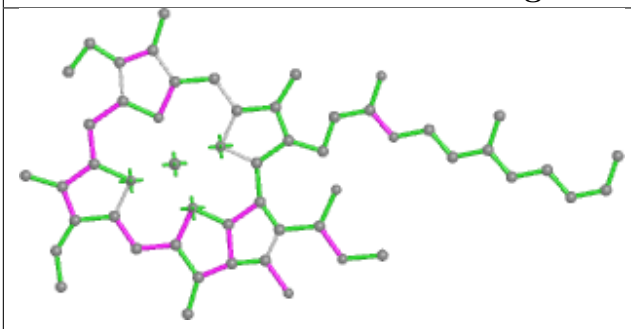


Torsions

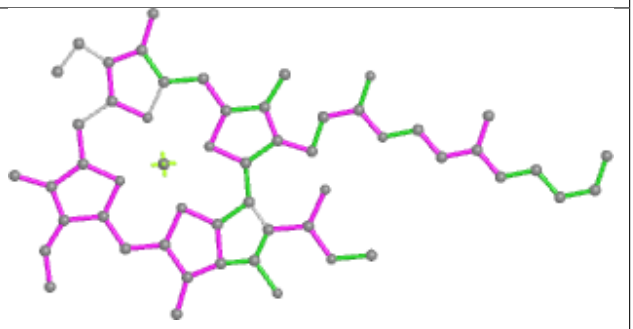


Rings

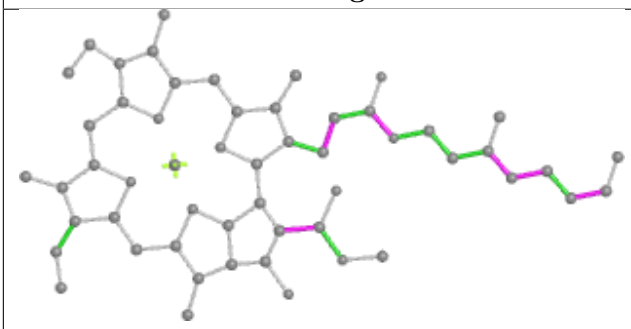
Ligand CLA B 805



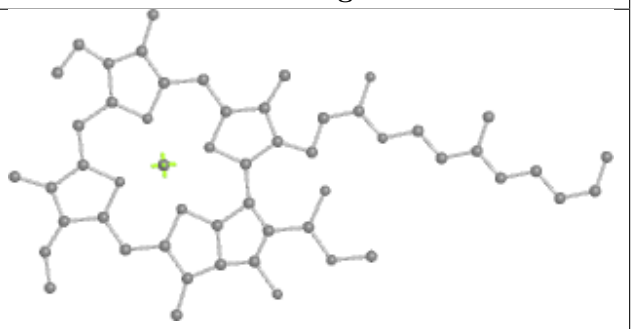
Bond lengths



Bond angles

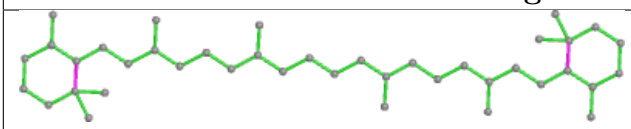


Torsions



Rings

Ligand BCR F 202



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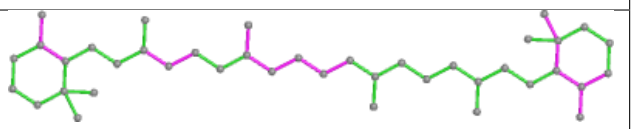
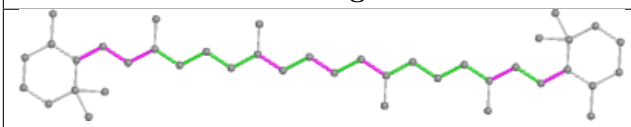
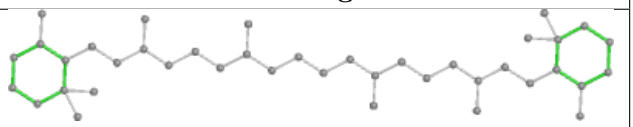


Bond angles

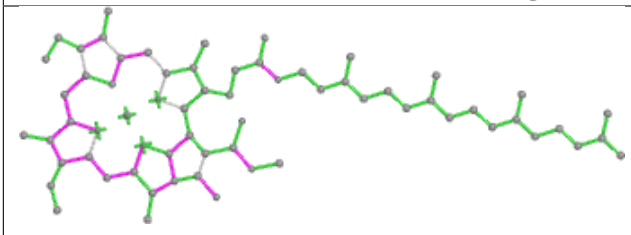


Torsions

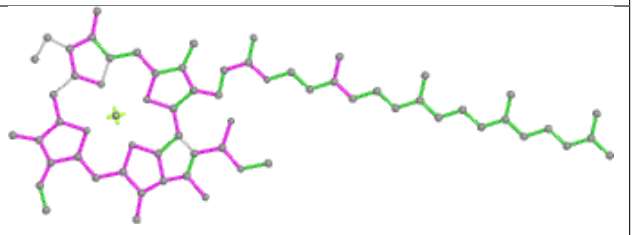


Rings

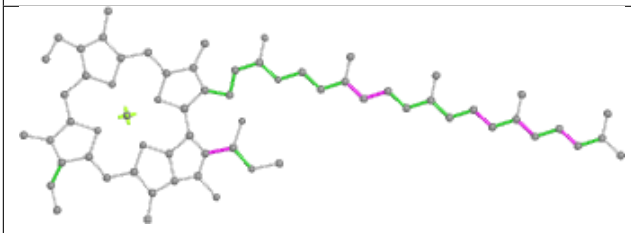
Ligand CLA B 820



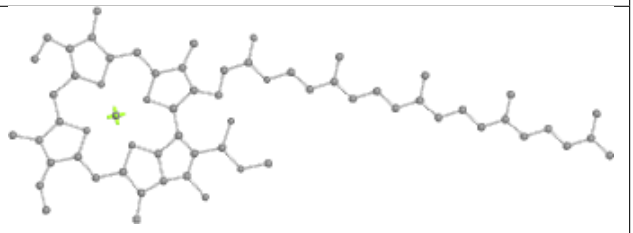
Bond lengths



Bond angles

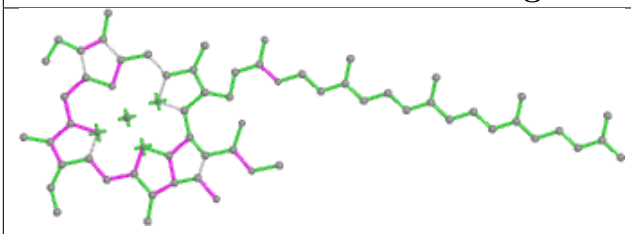


Torsions

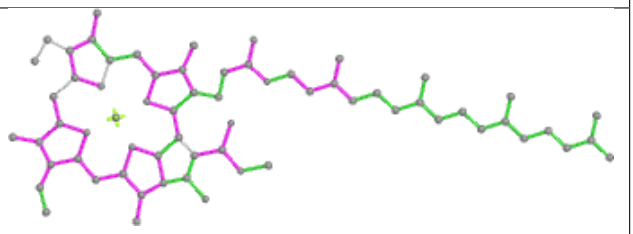


Rings

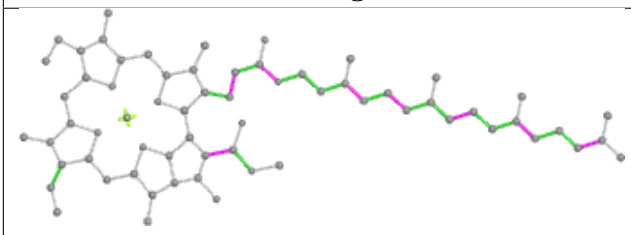
Ligand CLA A 830



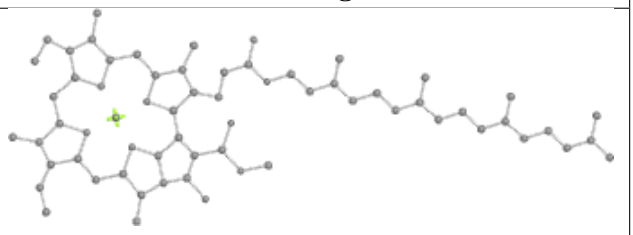
Bond lengths



Bond angles

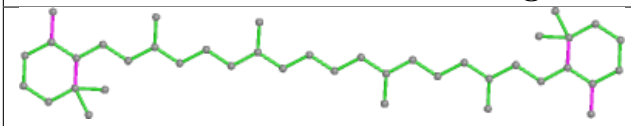


Torsions

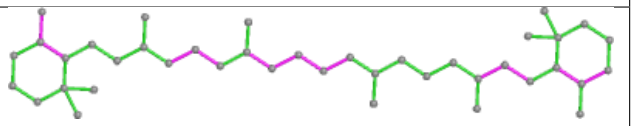


Rings

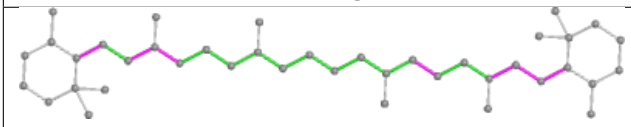
Ligand BCR B 837



Bond lengths



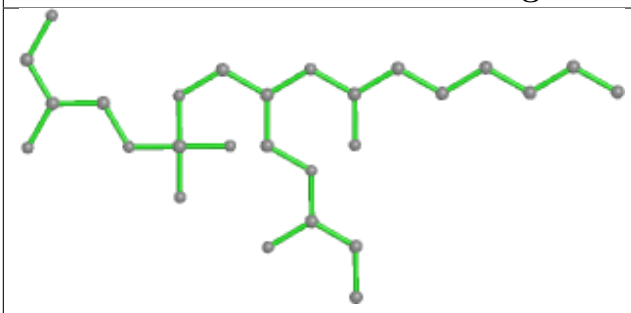
Bond angles



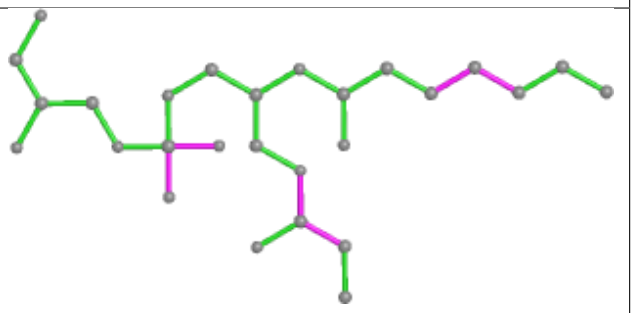
Torsions

Rings

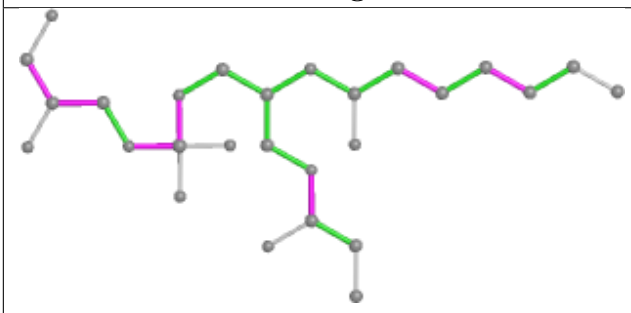
Ligand LHG A 853



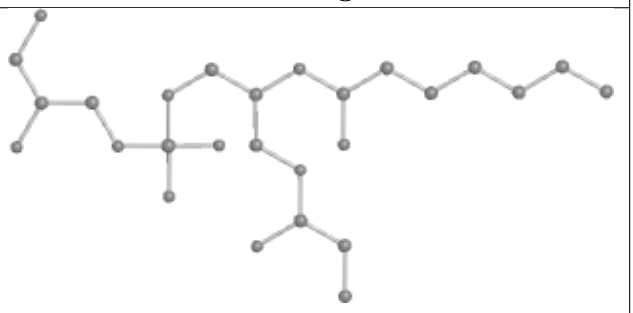
Bond lengths



Bond angles

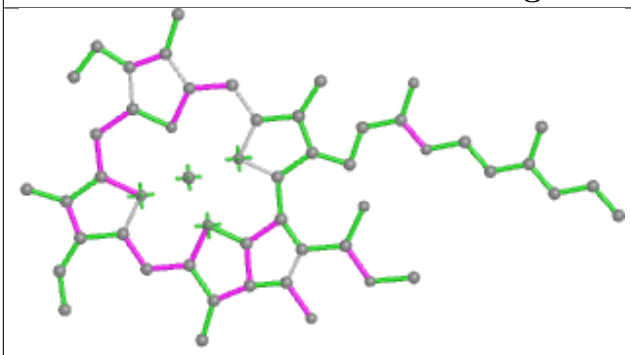


Torsions

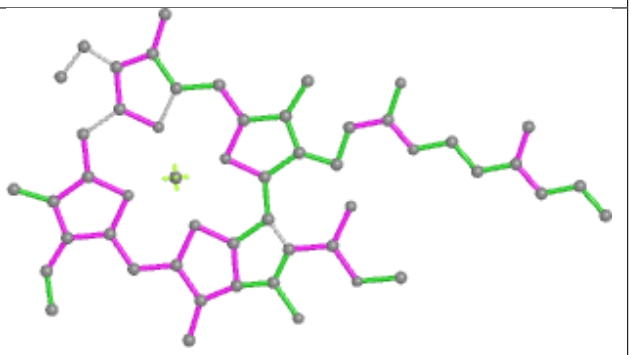


Rings

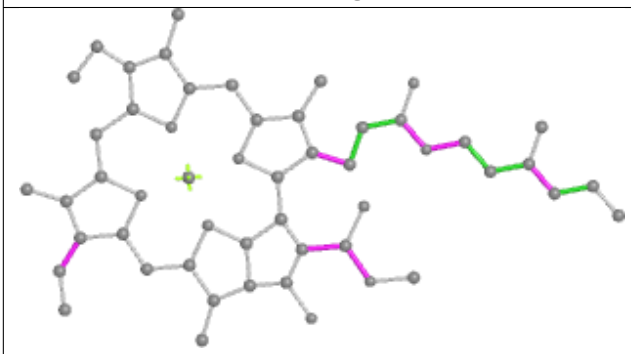
Ligand CLA A 844



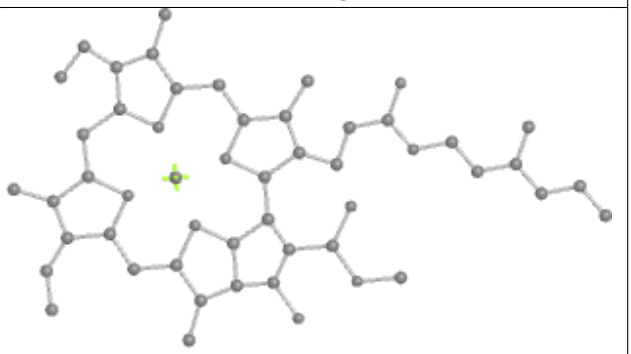
Bond lengths



Bond angles

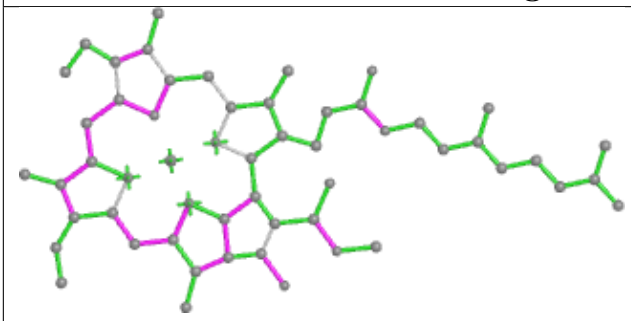


Torsions

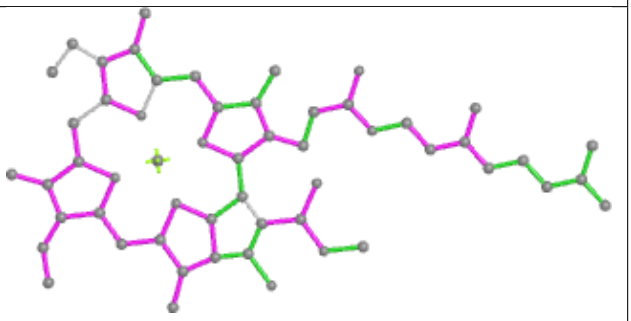


Rings

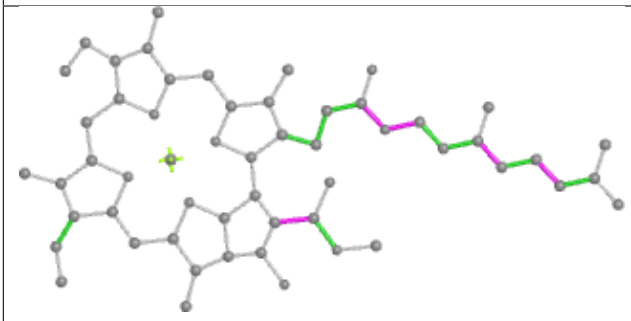
Ligand CLA A 827



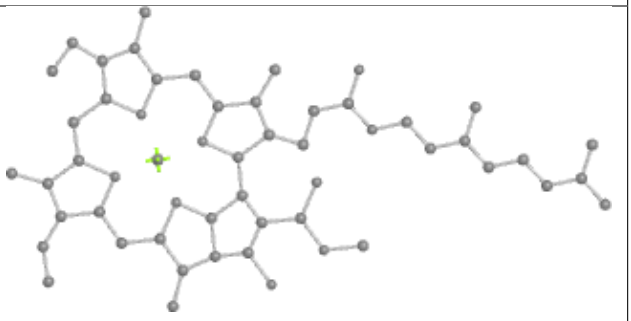
Bond lengths



Bond angles

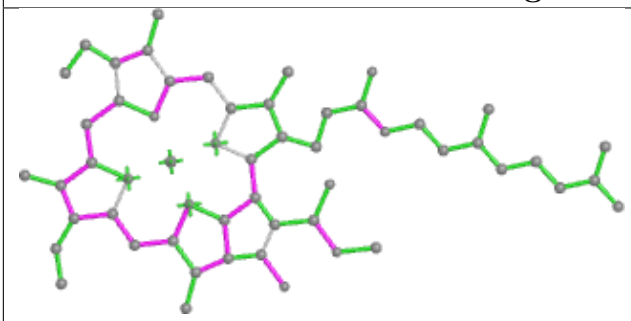


Torsions

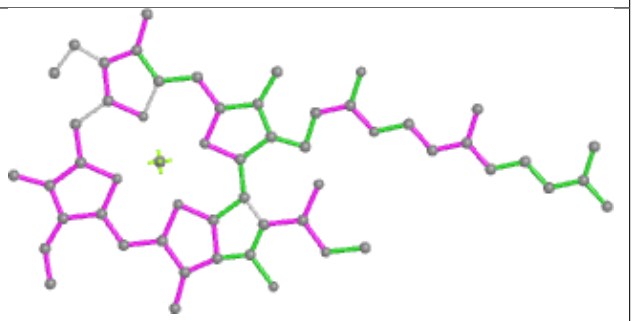


Rings

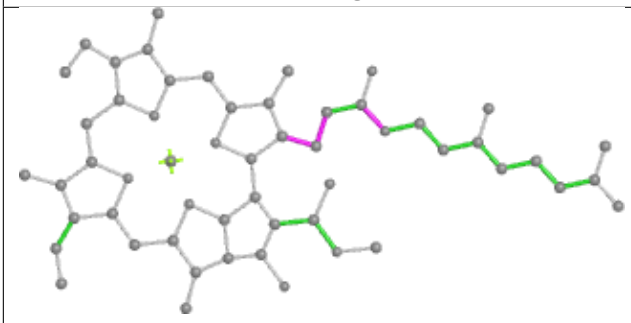
Ligand CLA B 816



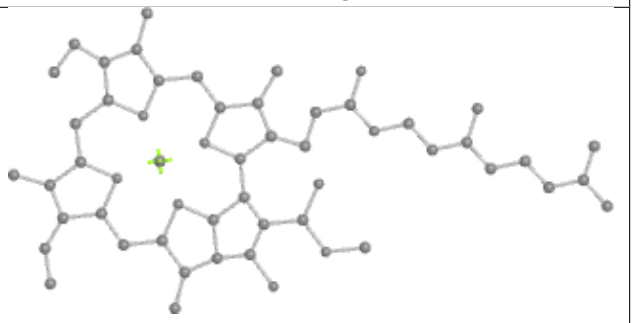
Bond lengths



Bond angles

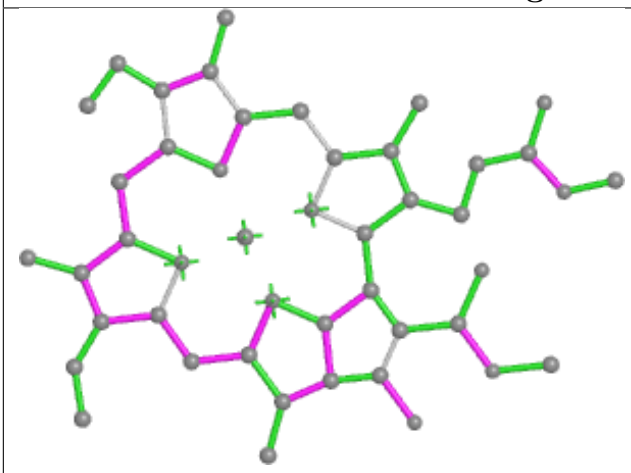


Torsions

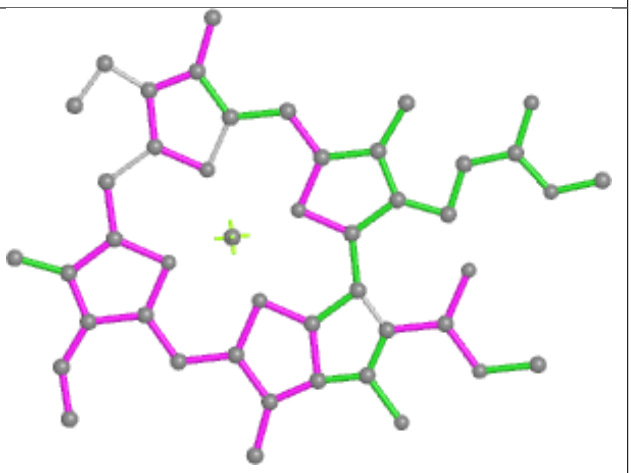


Rings

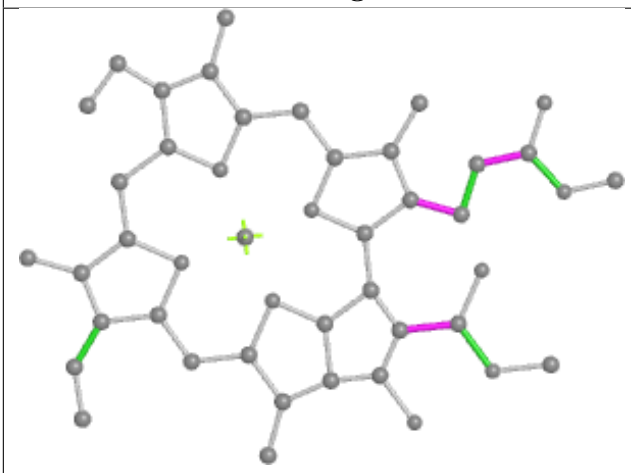
Ligand CLA L 202



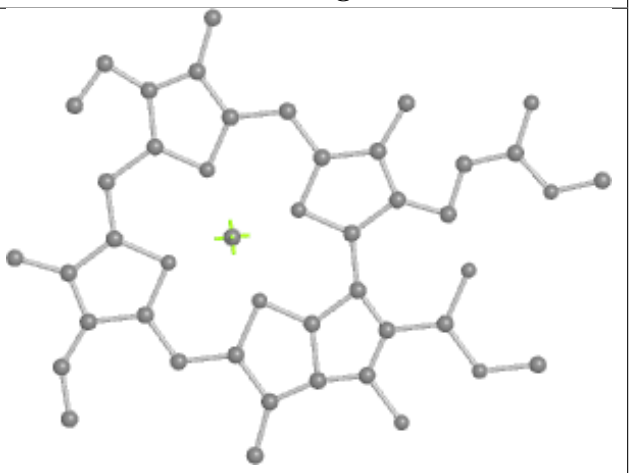
Bond lengths



Bond angles

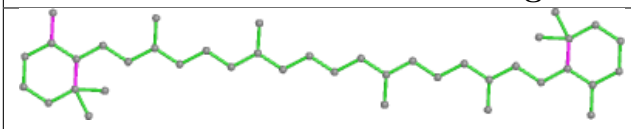


Torsions



Rings

Ligand BCR L 205



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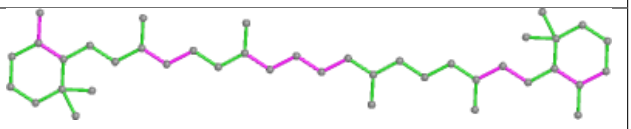
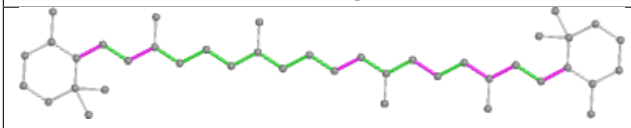


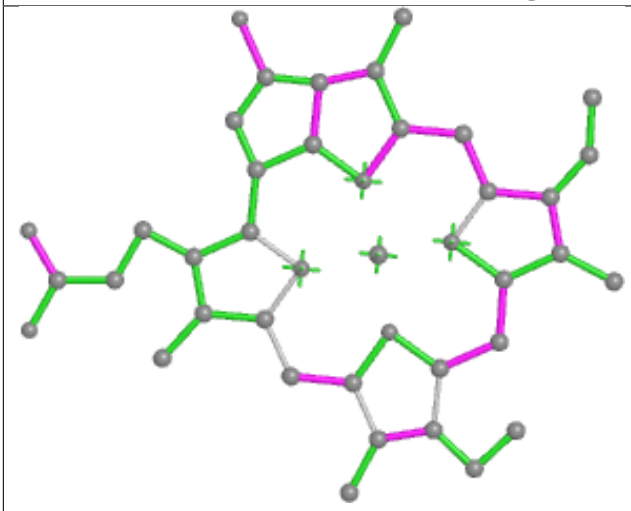
Bond angles



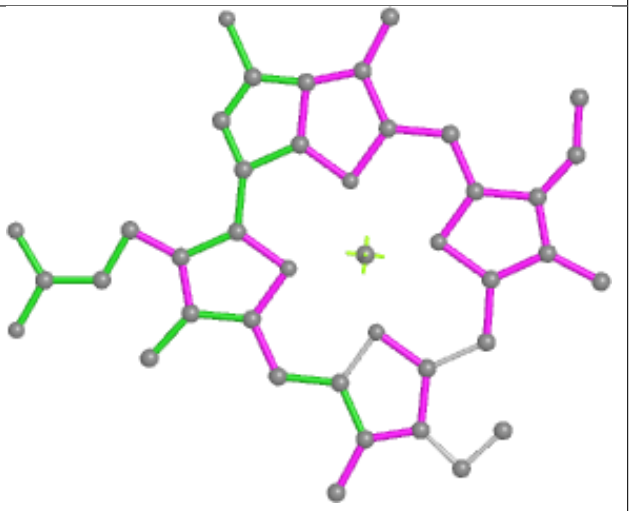
Torsions

Rings

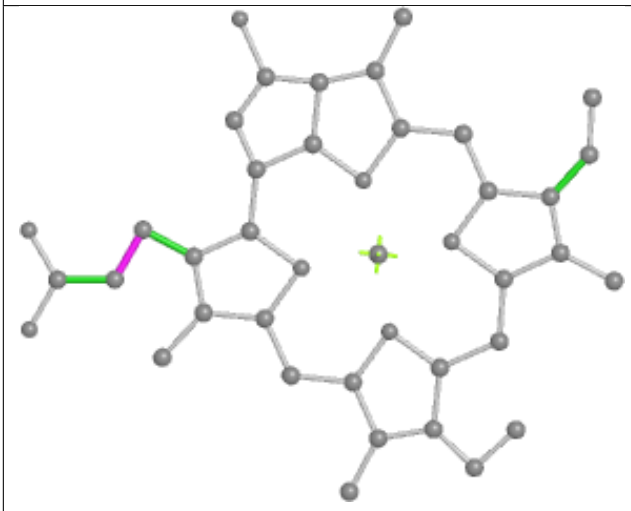
Ligand CLA K 201



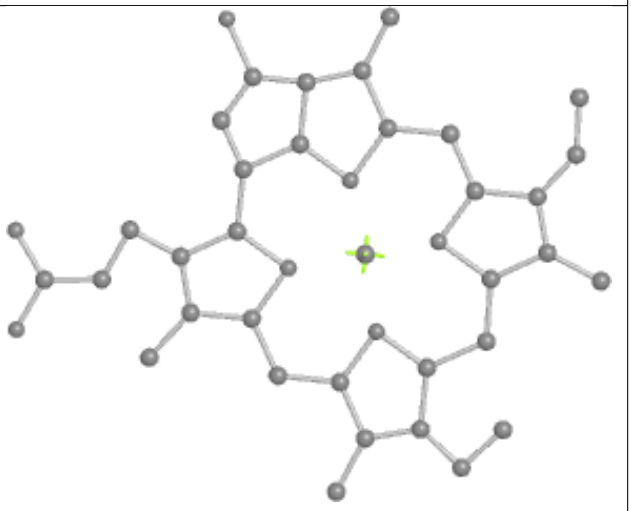
Bond lengths



Bond angles

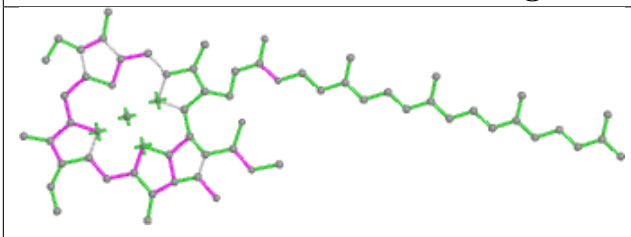


Torsions

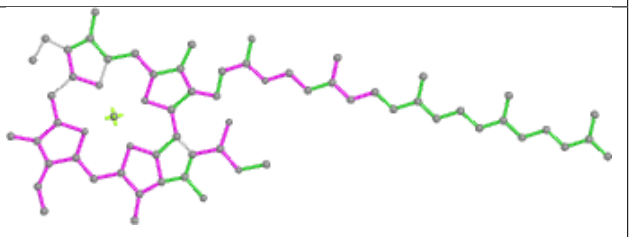


Rings

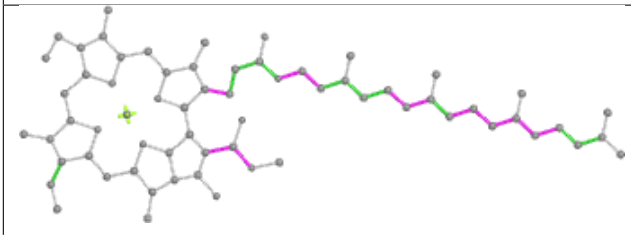
Ligand CLA A 840



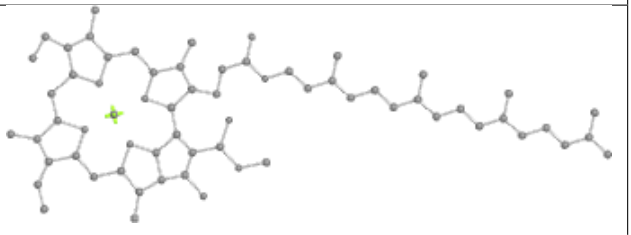
Bond lengths



Bond angles

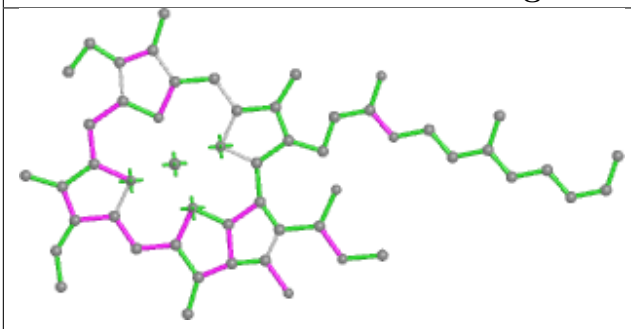


Torsions

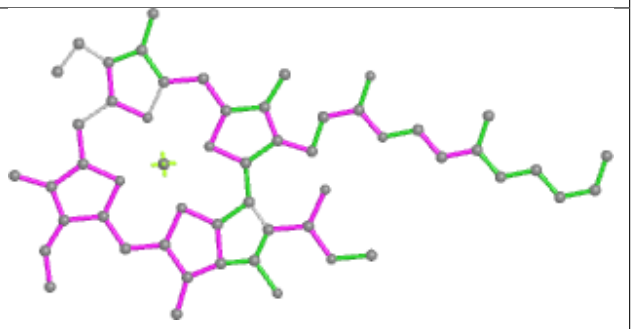


Rings

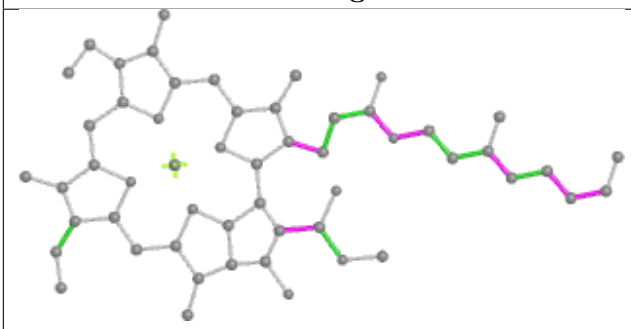
Ligand CLA A 836



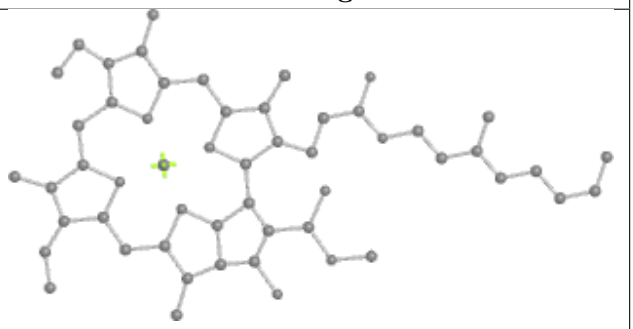
Bond lengths



Bond angles

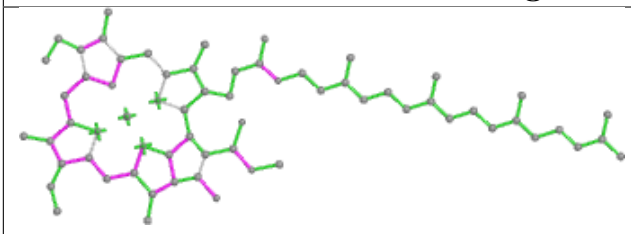


Torsions

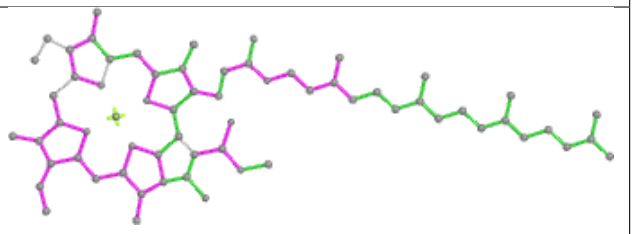


Rings

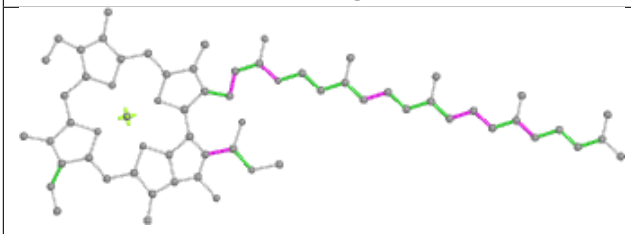
Ligand CLA B 832



Bond lengths



Bond angles



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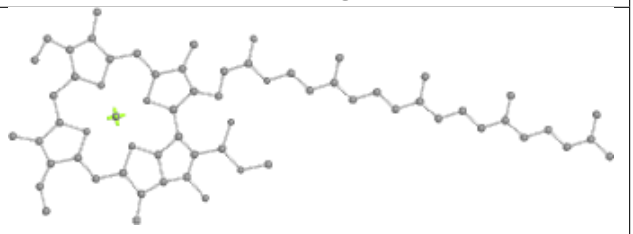
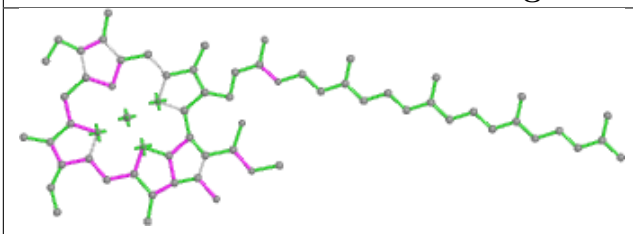
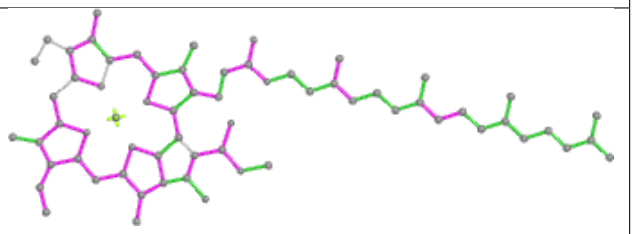


Rings

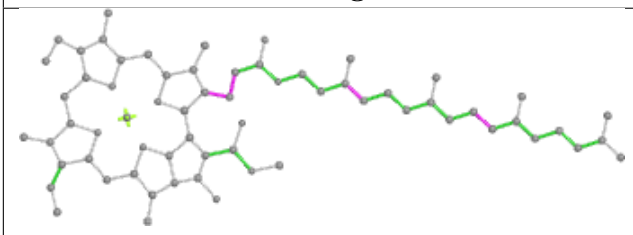
Ligand CLA A 802



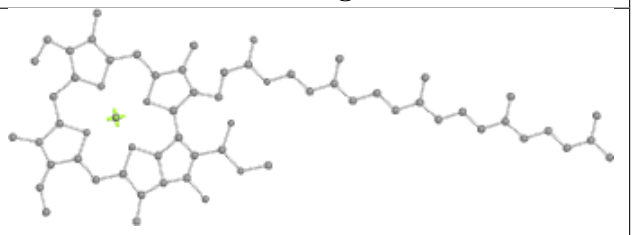
Bond lengths



Bond angles

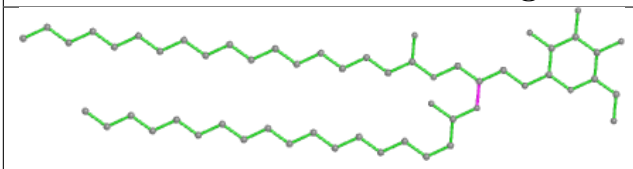


Torsions

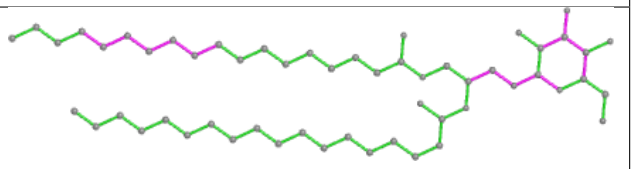


Rings

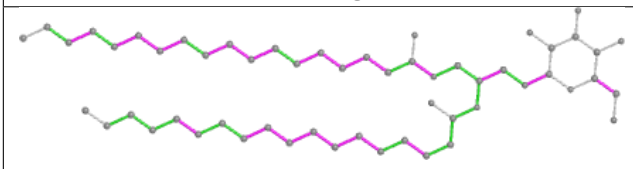
Ligand LMG B 838



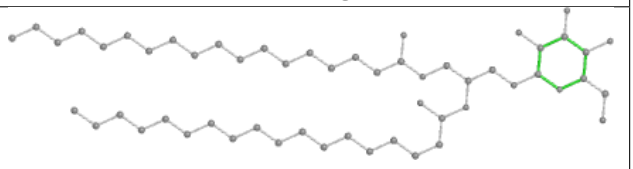
Bond lengths



Bond angles

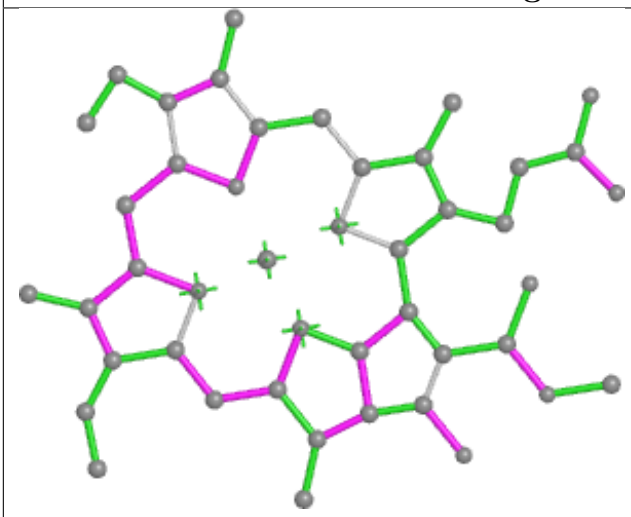


Torsions

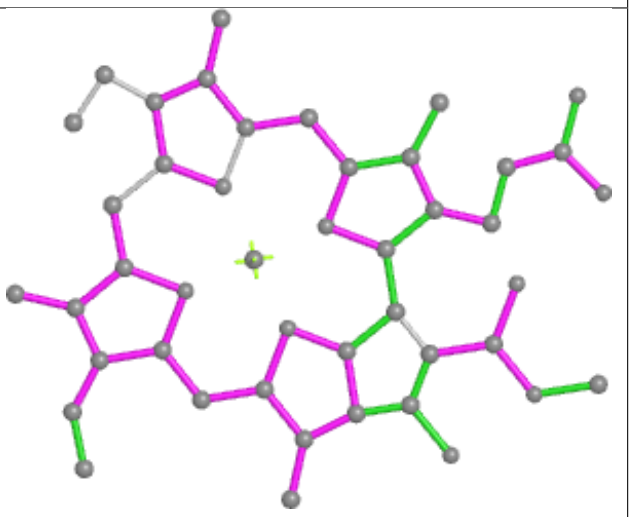


Rings

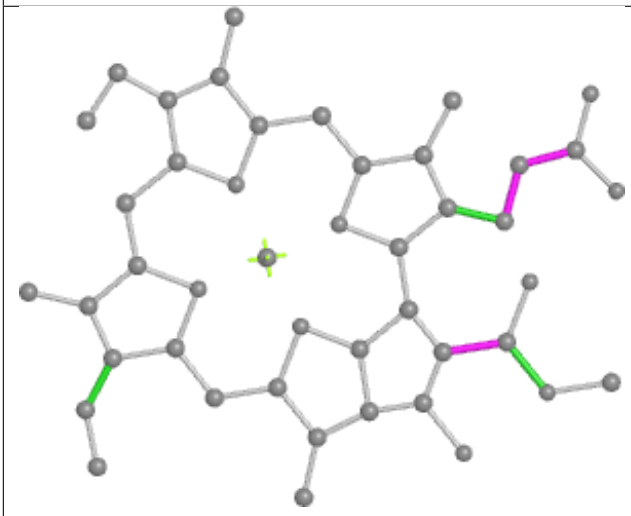
Ligand CLA A 803



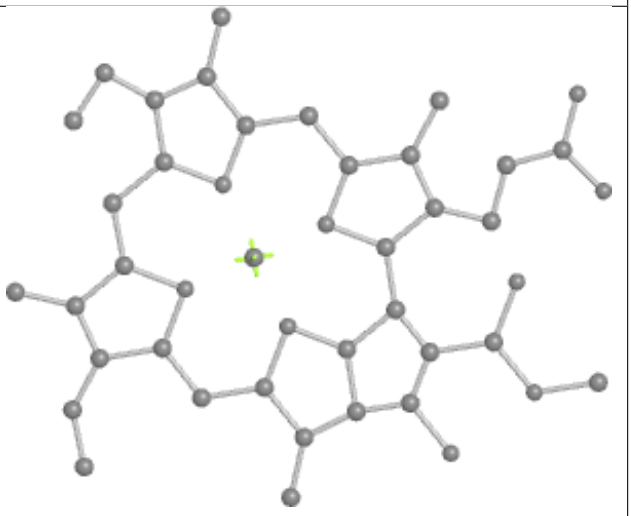
Bond lengths



Bond angles

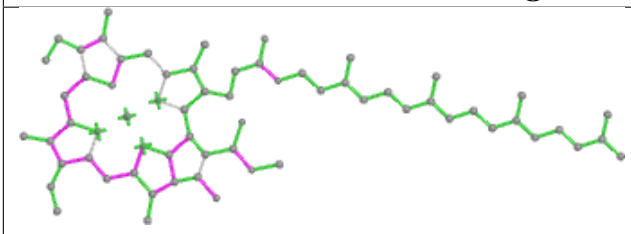


Torsions

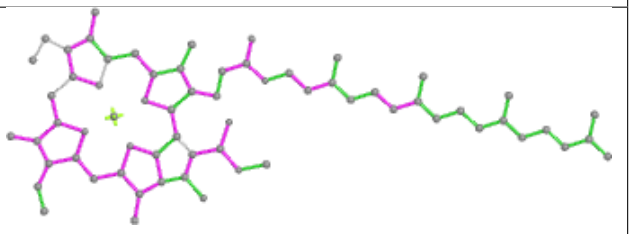


Rings

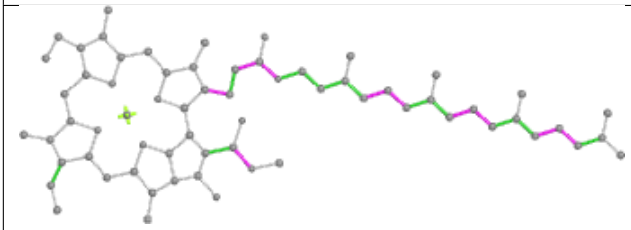
Ligand CLA B 825



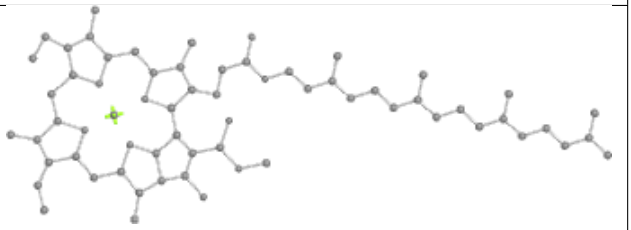
Bond lengths



Bond angles

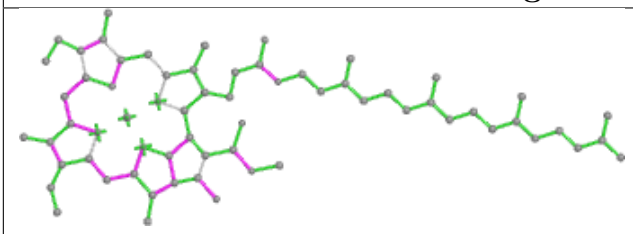


Torsions

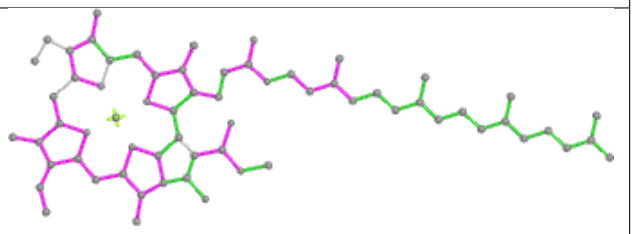


Rings

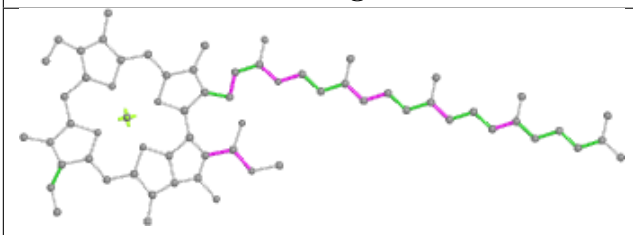
Ligand CLA A 834



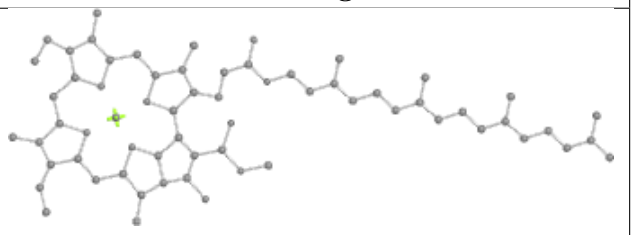
Bond lengths



Bond angles

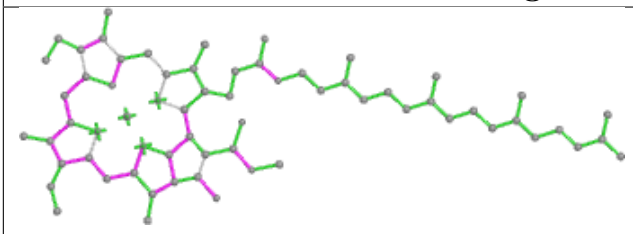


Torsions

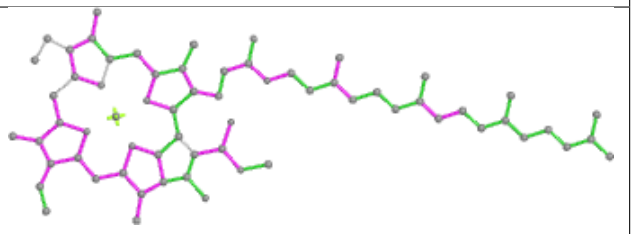


Rings

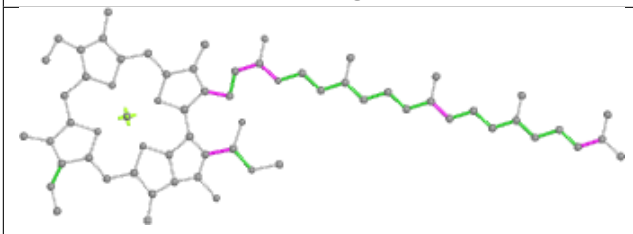
Ligand CLA A 843



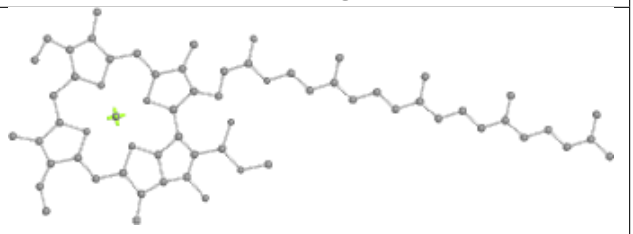
Bond lengths



Bond angles

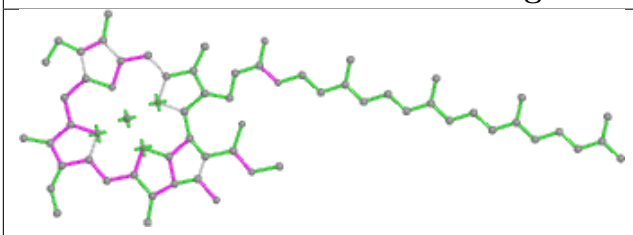


Torsions

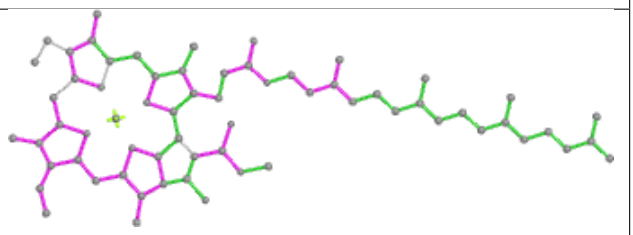


Rings

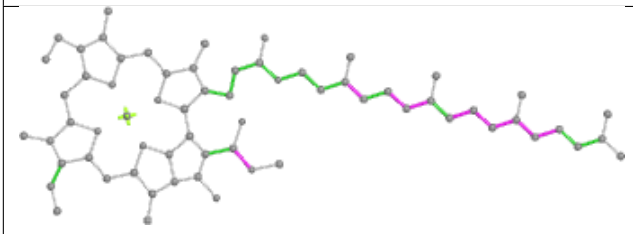
Ligand CLA B 811



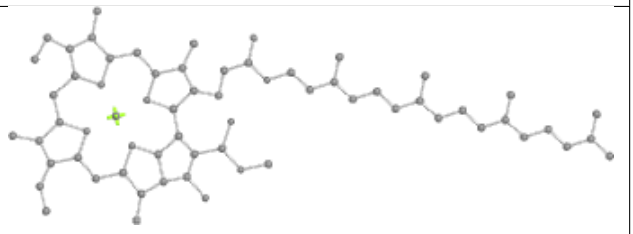
Bond lengths



Bond angles

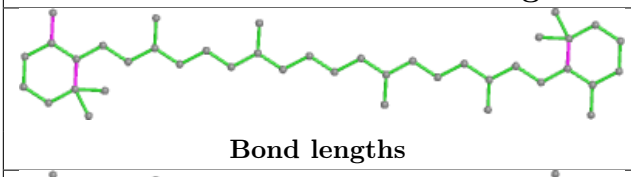


Torsions

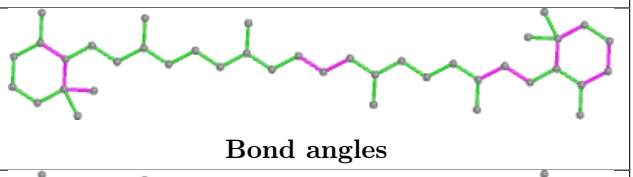


Rings

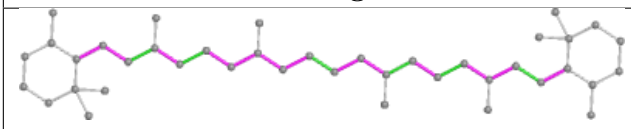
Ligand BCR A 851



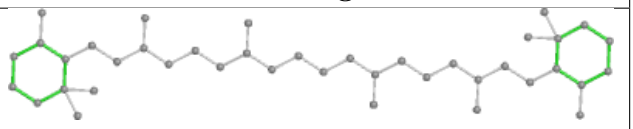
Bond lengths



Bond angles

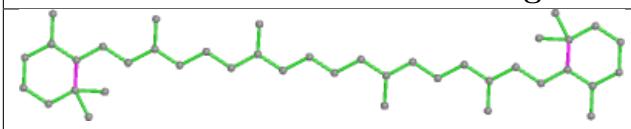


Torsions

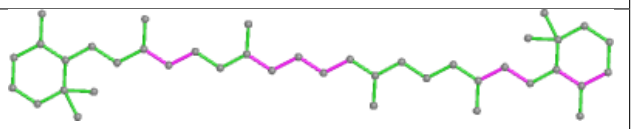


Rings

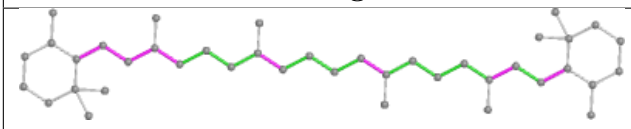
Ligand BCR F 201



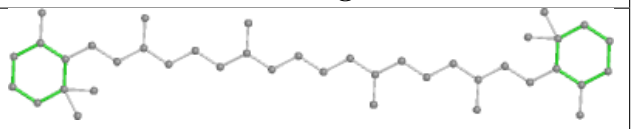
Bond lengths



Bond angles

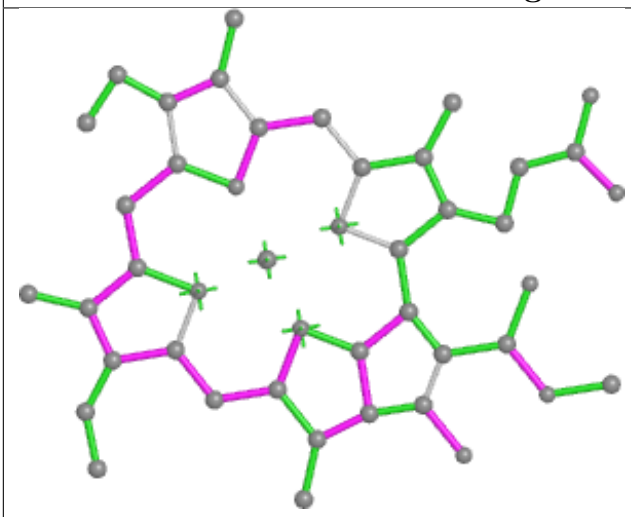


Torsions

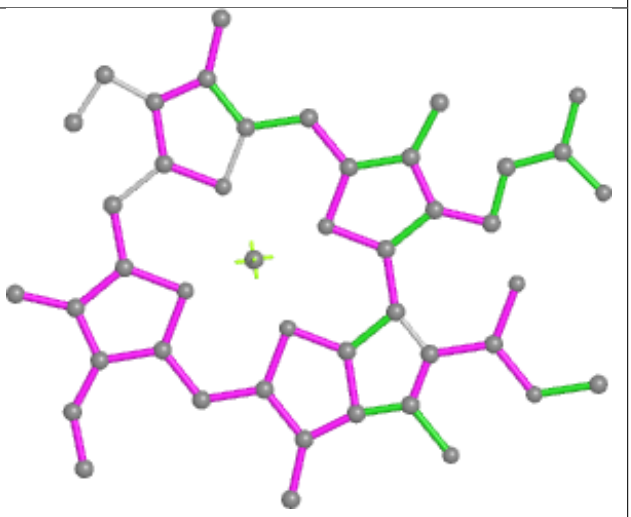


Rings

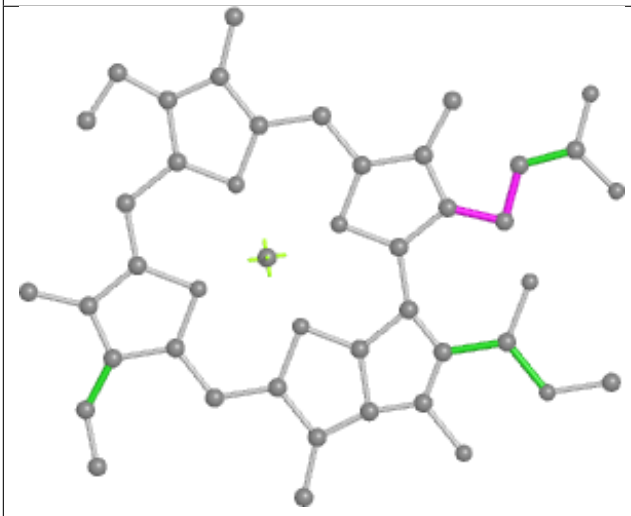
Ligand CLA B 828



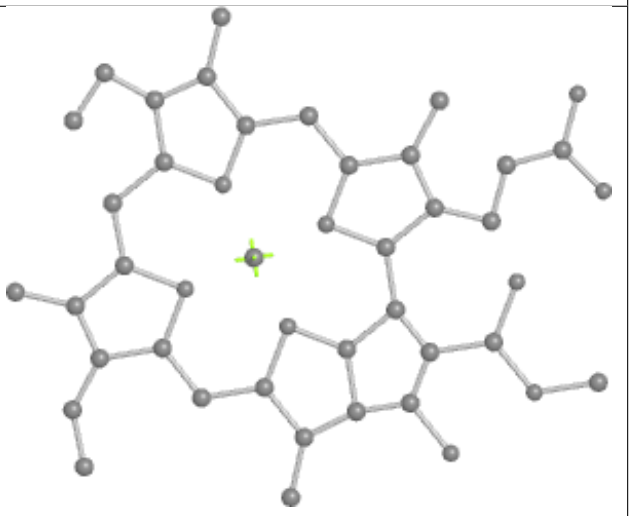
Bond lengths



Bond angles

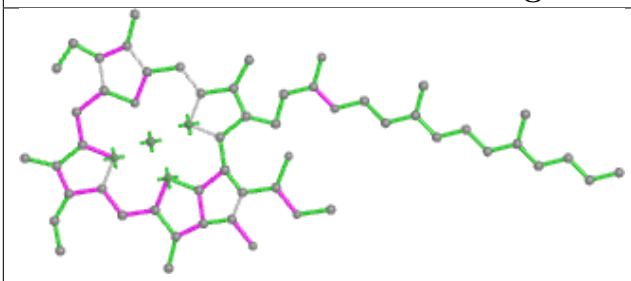


Torsions

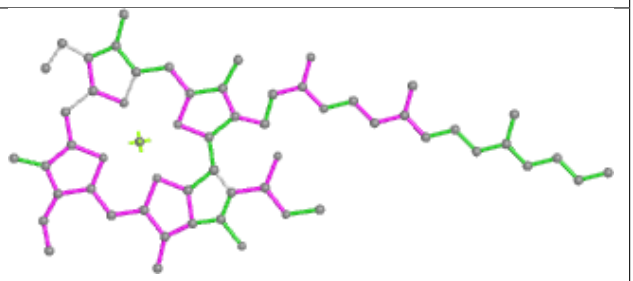


Rings

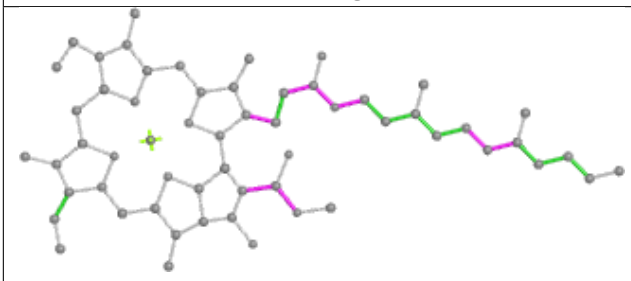
Ligand CLA B 826



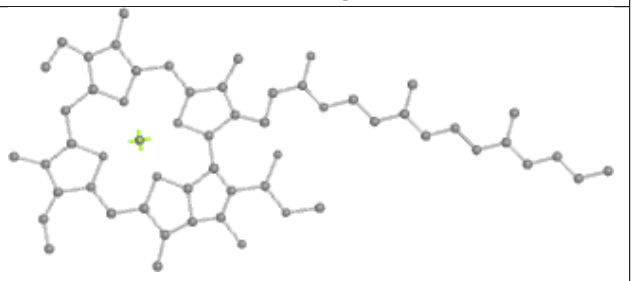
Bond lengths



Bond angles

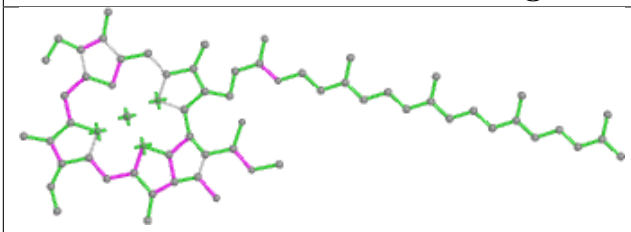


Torsions

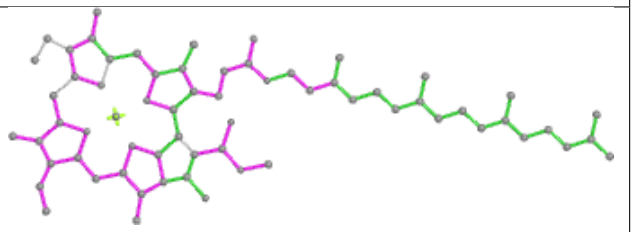


Rings

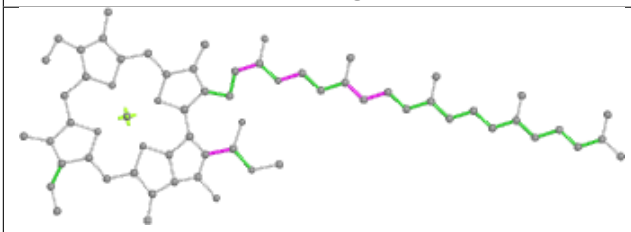
Ligand CLA B 830



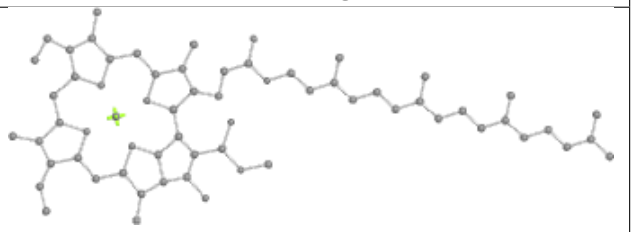
Bond lengths



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.

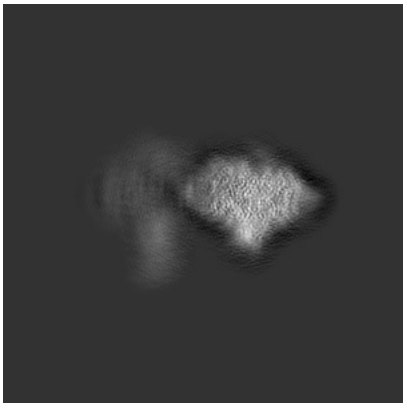
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-30820. These allow visual inspection of the internal detail of the map and identification of artifacts.

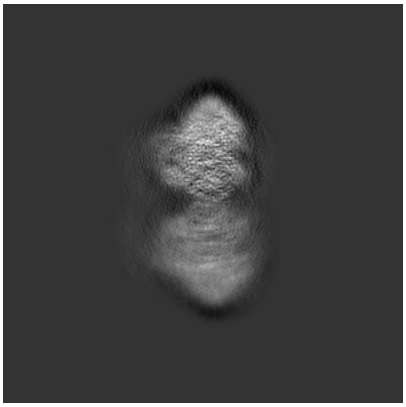
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

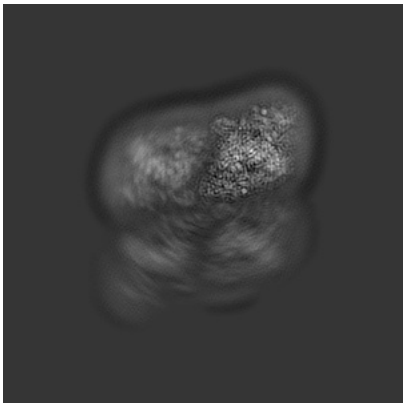
6.1.1 Primary map



X



Y

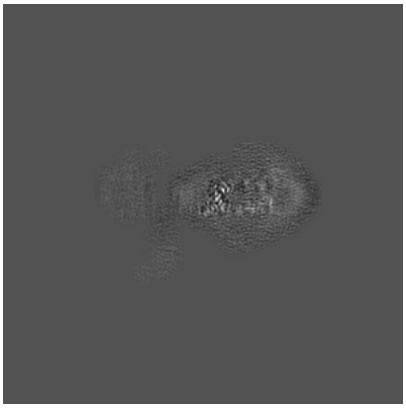


Z

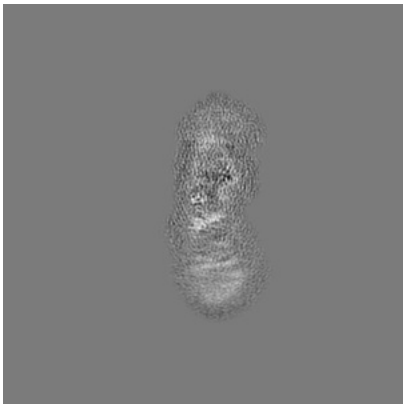
The images above show the map projected in three orthogonal directions.

6.2 Central slices

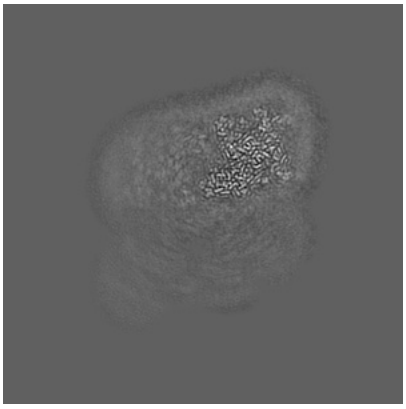
6.2.1 Primary map



X Index: 200



Y Index: 200

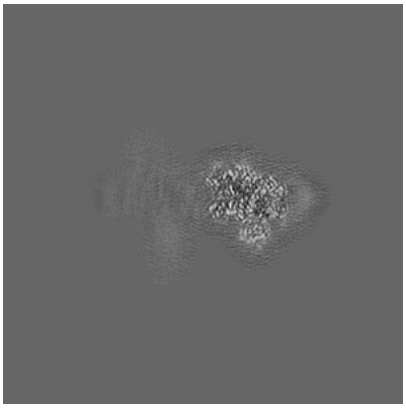


Z Index: 200

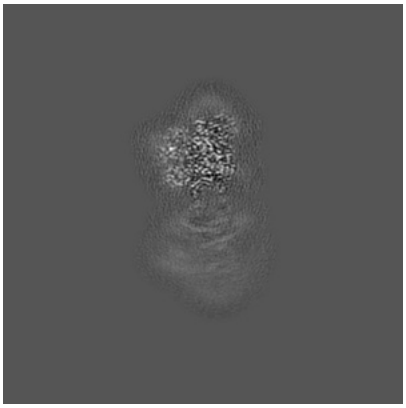
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

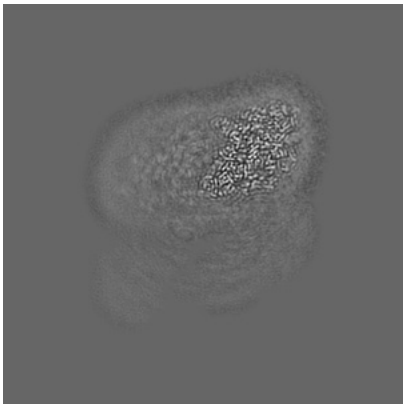
6.3.1 Primary map



X Index: 233



Y Index: 247



Z Index: 216

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

6.4 Orthogonal surface views (i)

6.4.1 Primary map

X

Y

Z

The images above show the 3D surface view of the map at the recommended contour level 0.06. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

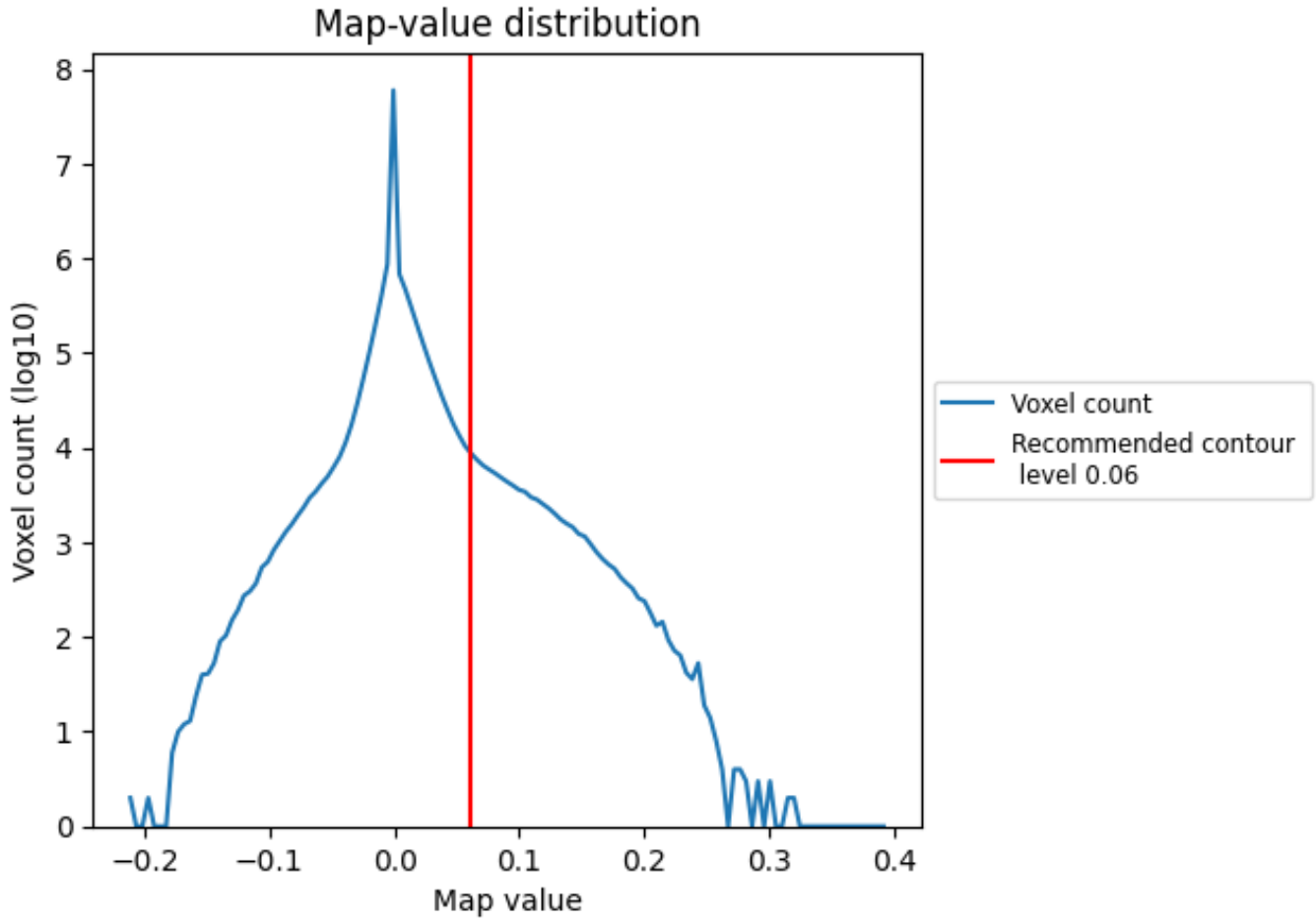
6.5 Mask visualisation (i)

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

7 Map analysis

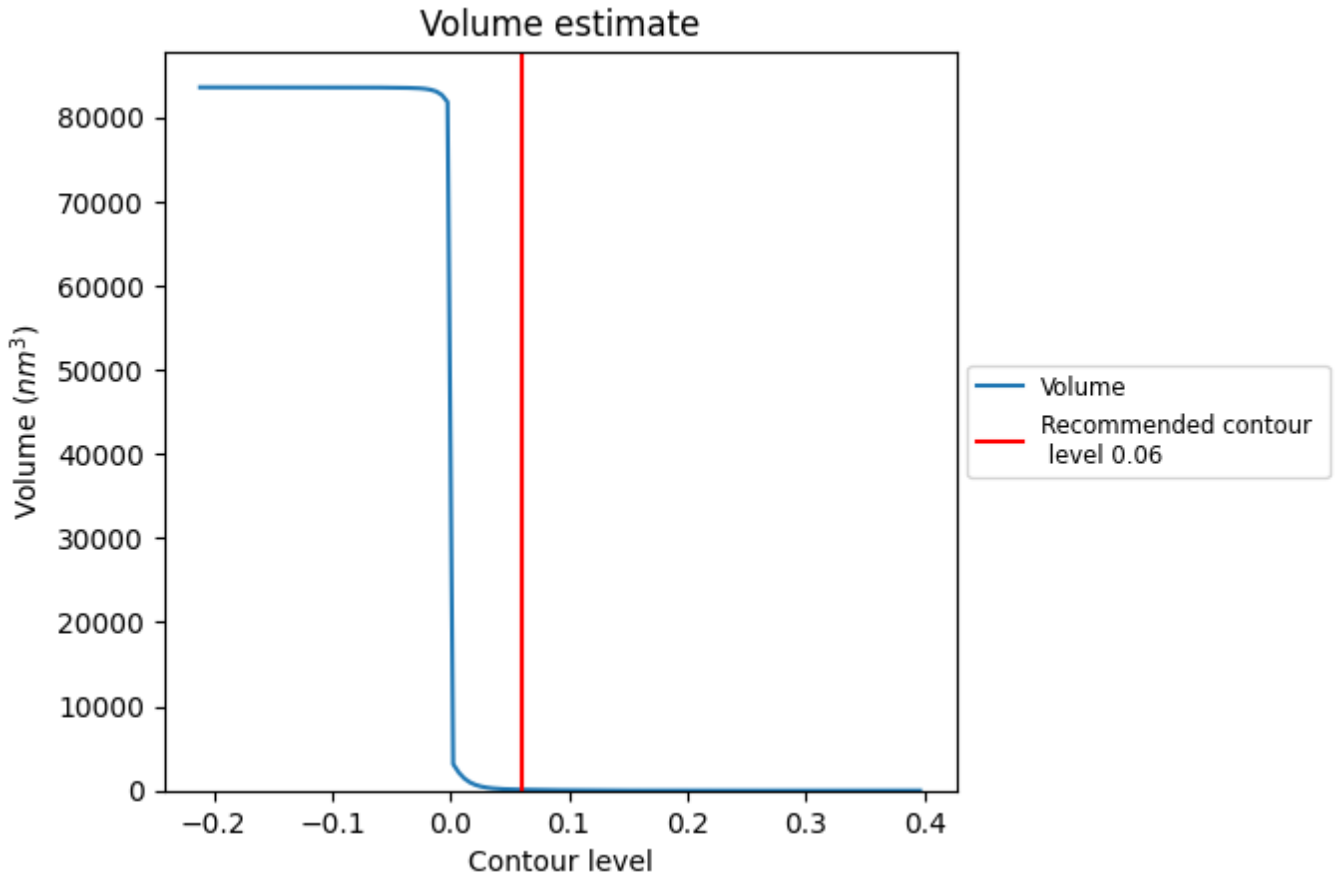
This section contains the results of statistical analysis of the map.

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.

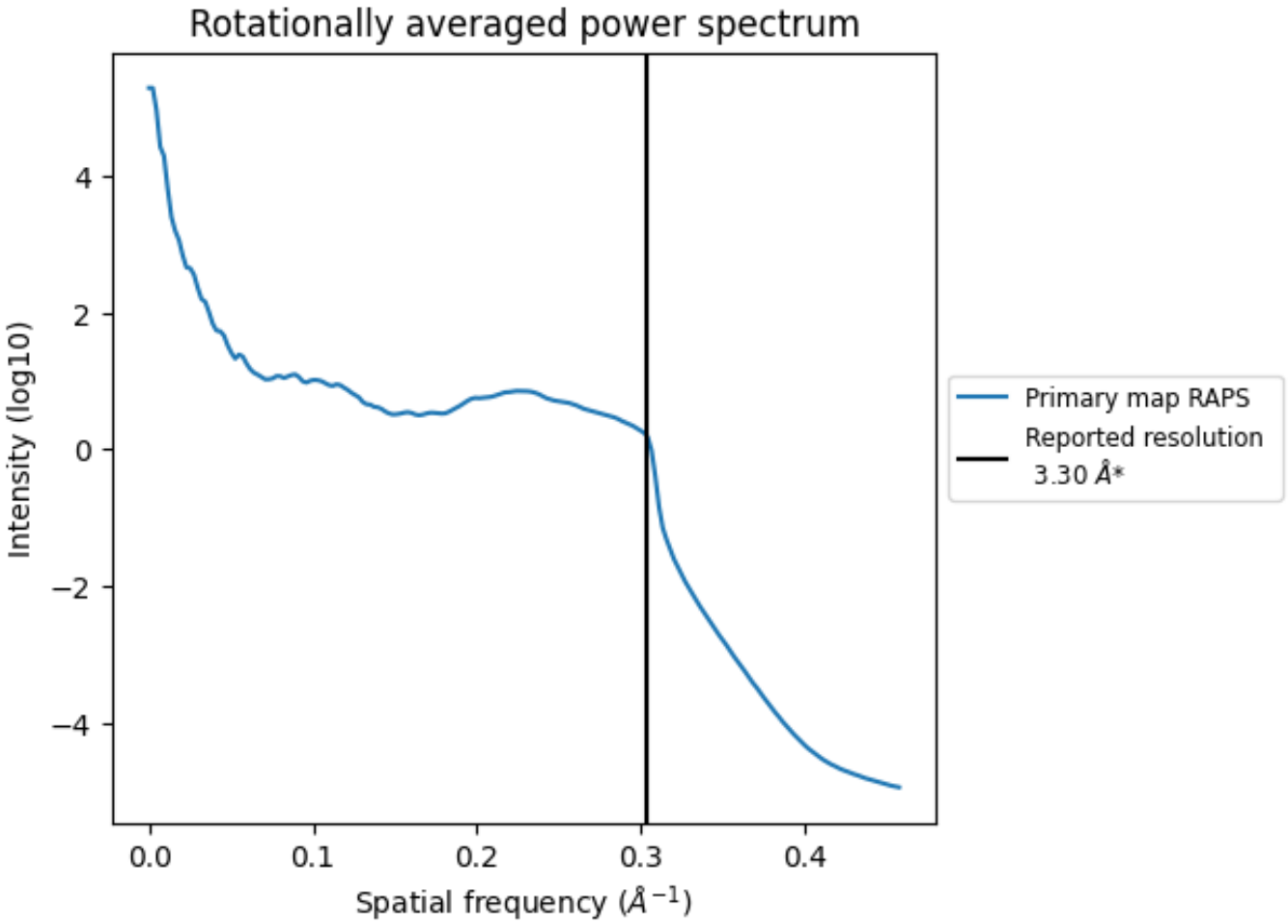
7.2 Volume estimate



The volume at the recommended contour level is 108 nm^3; this corresponds to an approximate mass of 98 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)

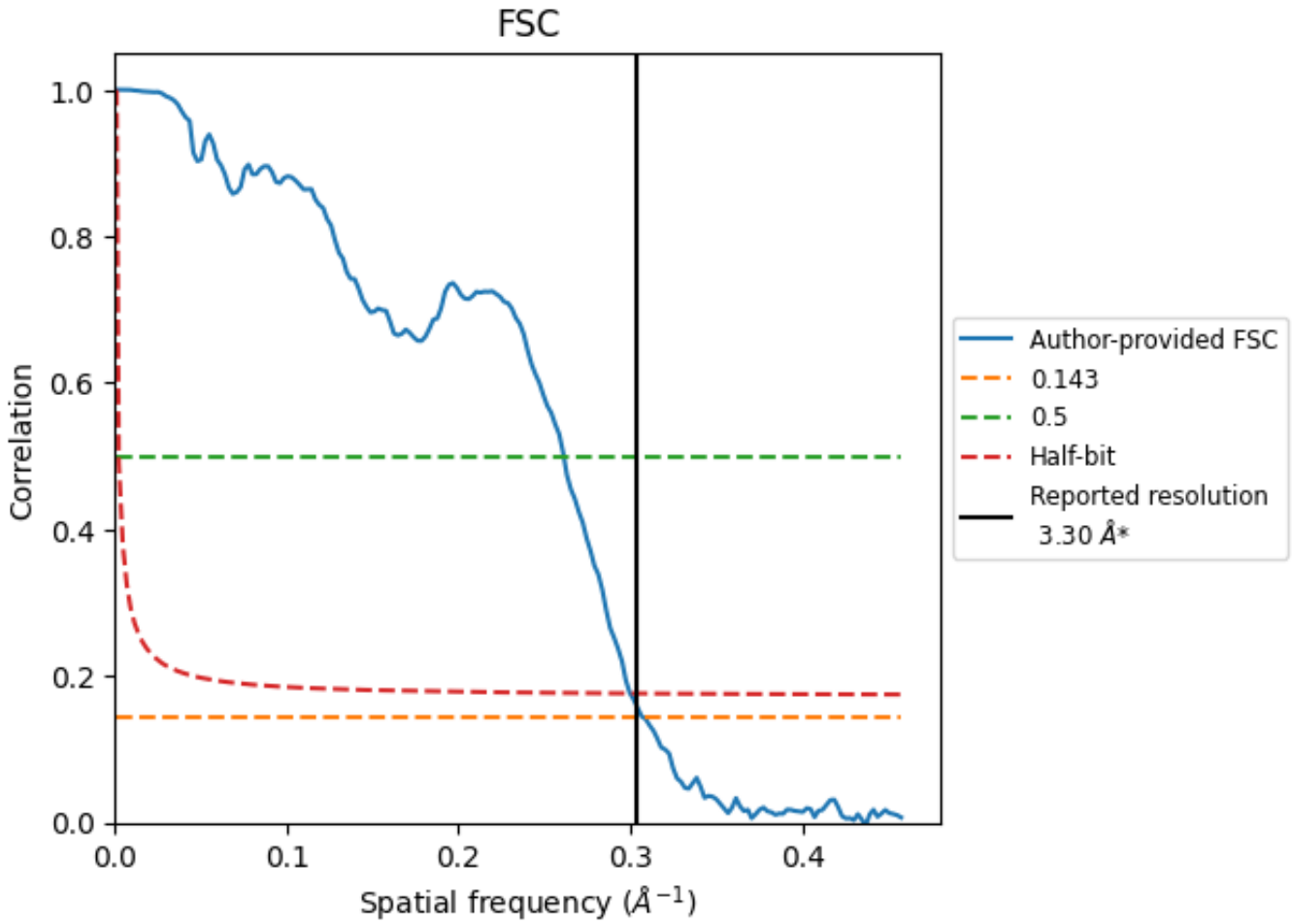


*Reported resolution corresponds to spatial frequency of 0.303 Å^{-1}

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 0.303 Å^{-1}

8.2 Resolution estimates (i)

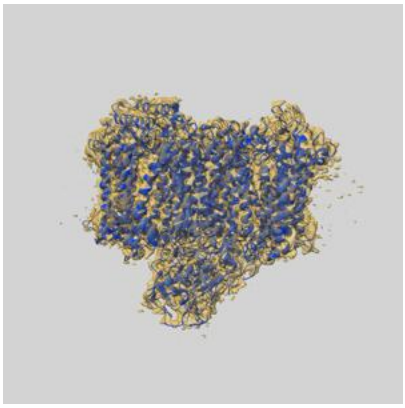
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.30	-	-
Author-provided FSC curve	3.25	3.83	3.34
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

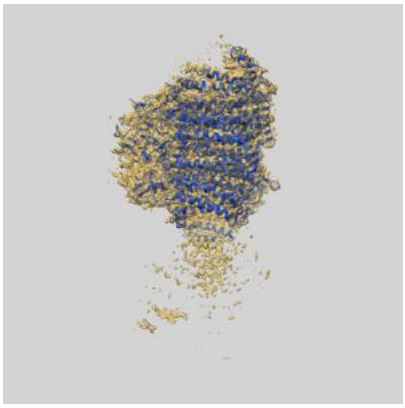
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-30820 and PDB model 7DR0. Per-residue inclusion information can be found in section 3 on page 16.

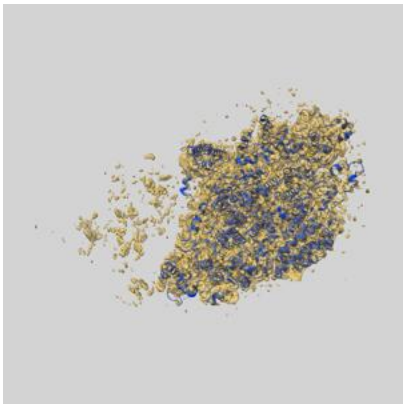
9.1 Map-model overlay



X



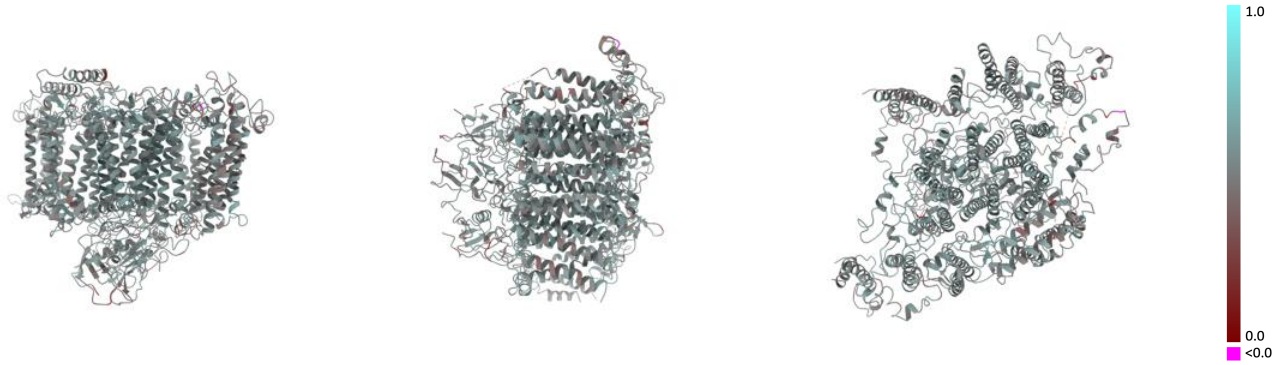
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.06 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.

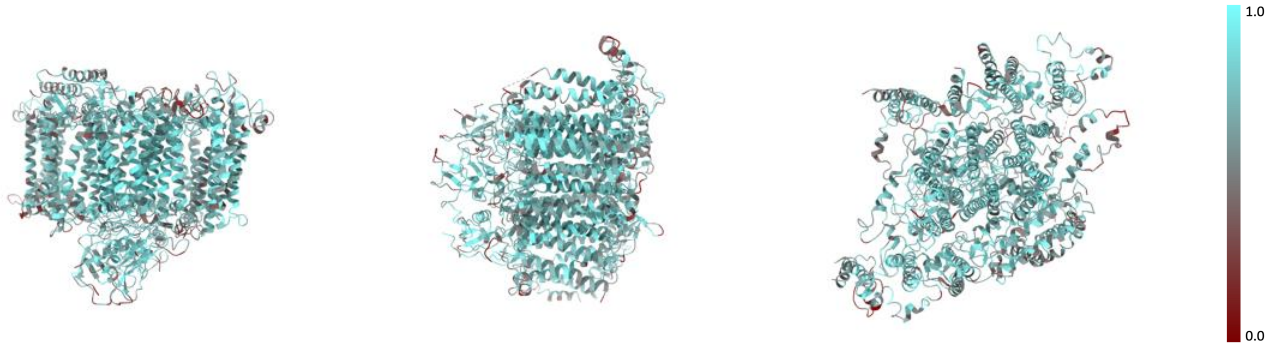
9.2 Q-score mapped to coordinate model (i)



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.

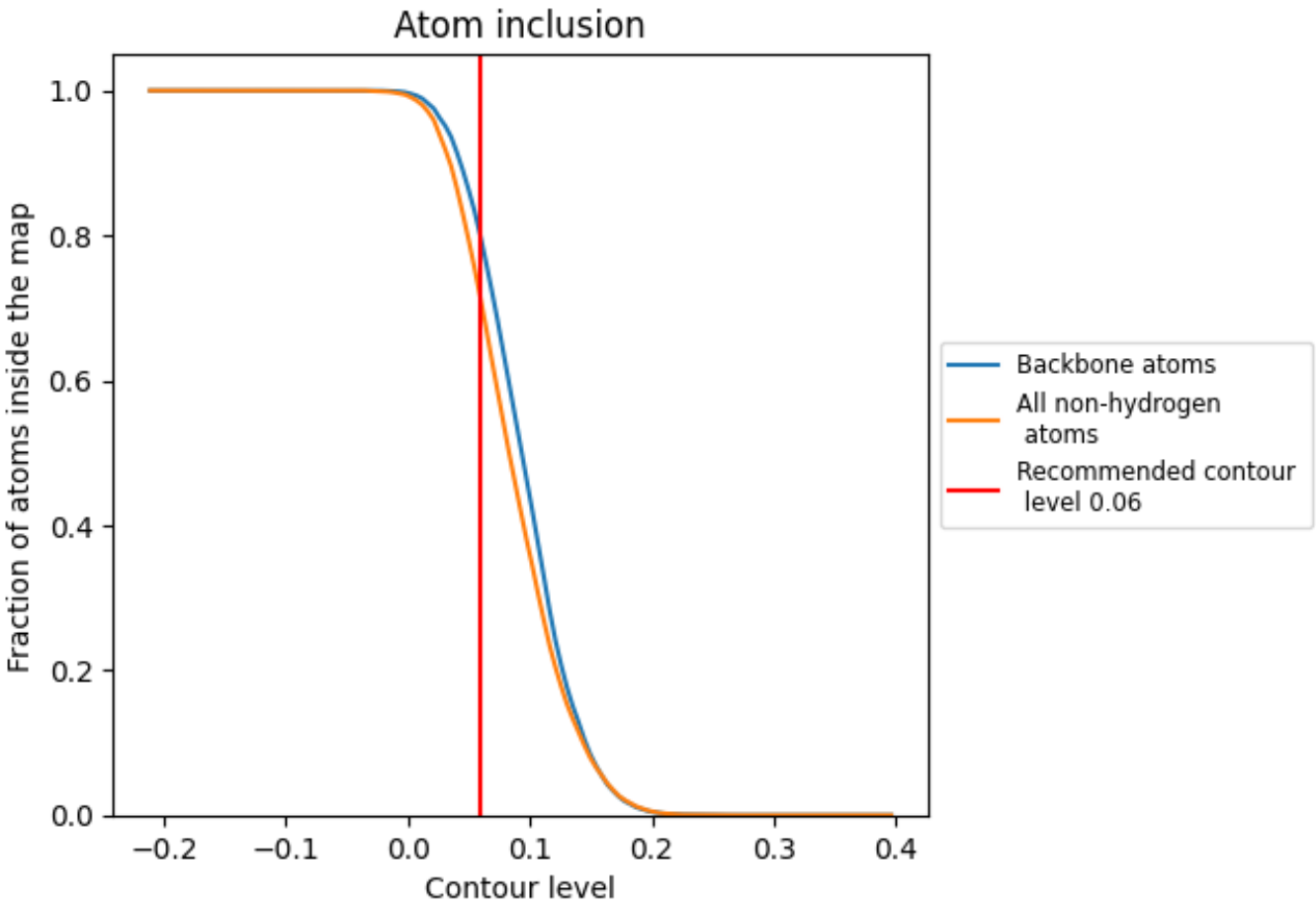
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.06).

9.4 Atom inclusion (i)



At the recommended contour level, 80% of all backbone atoms, 71% 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 (0.06) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7093	0.5300
A	0.7423	0.5480
B	0.7171	0.5290
C	0.7920	0.5060
D	0.7191	0.5020
E	0.6929	0.4980
F	0.6464	0.5030
I	0.6292	0.5120
J	0.5746	0.5230
K	0.5519	0.5180
L	0.6202	0.5010
M	0.5913	0.5210