Full wwPDB EM Validation Report ⓘ

Oct 6, 2024 – 04:10 AM JST

PDB ID	:	7DR1
EMDB ID	:	EMD-30821
Title	:	Structure of Wild-type PSI monomer2 from Cyanophora paradoxa
Authors	:	Kato, K.; Nagao, R.; Akita, F.; Miyazaki, N.; Shen, J.R.
Deposited on	:	2020-12-25
Resolution	:	3.20 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:

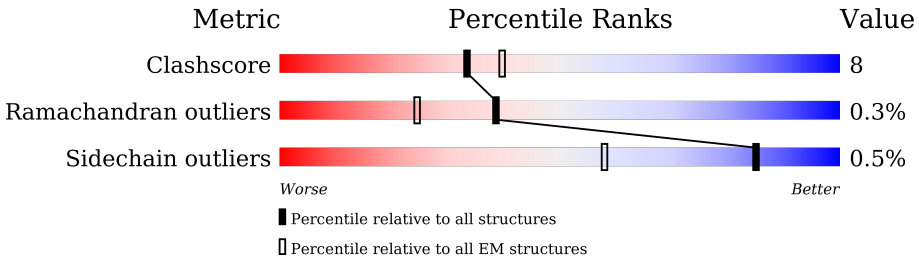
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

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 3.20 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.



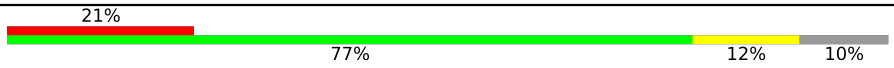
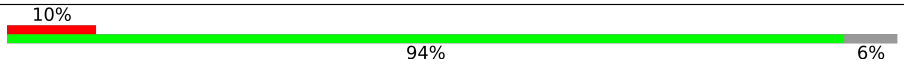
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	82% 17%
2	B	737	6% 82% 14%
3	C	81	9% 86% 12%
4	D	220	5% 52% 10% 37%
5	E	70	7% 84% 11%
6	F	186	9% 77% 9% 13%
7	I	35	9% 71% 14% 14%
8	J	40	5% 72% 20% 8%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
9	L	146	
10	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
11	CL0	A	801	X	-	-	-
12	CLA	A	802	X	-	-	-
12	CLA	A	803	X	-	-	-
12	CLA	A	804	X	-	-	-
12	CLA	A	805	X	-	-	-
12	CLA	A	806	X	-	-	-
12	CLA	A	807	X	-	-	-
12	CLA	A	808	X	-	-	-
12	CLA	A	809	X	-	-	-
12	CLA	A	810	X	-	-	-
12	CLA	A	811	X	-	-	-
12	CLA	A	813	X	-	-	-
12	CLA	A	814	X	-	-	-
12	CLA	A	816	X	-	-	-
12	CLA	A	818	X	-	-	-
12	CLA	A	819	X	-	-	-
12	CLA	A	820	X	-	-	-
12	CLA	A	821	X	-	-	-
12	CLA	A	824	X	-	-	-
12	CLA	A	825	X	-	-	-
12	CLA	A	826	X	-	-	-
12	CLA	A	827	X	-	-	-
12	CLA	A	828	X	-	-	-
12	CLA	A	829	X	-	-	-
12	CLA	A	830	X	-	-	-
12	CLA	A	831	X	-	-	-
12	CLA	A	832	X	-	-	-
12	CLA	A	833	X	-	-	-
12	CLA	A	835	X	-	-	-
12	CLA	A	836	X	-	-	-
12	CLA	A	837	X	-	-	-
12	CLA	A	838	X	-	-	-
12	CLA	A	840	X	-	-	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
12	CLA	A	841	X	-	-	-
12	CLA	A	842	X	-	-	-
12	CLA	A	854	X	-	-	-
12	CLA	B	801	X	-	-	-
12	CLA	B	802	X	-	-	-
12	CLA	B	803	X	-	-	-
12	CLA	B	804	X	-	-	-
12	CLA	B	805	X	-	-	-
12	CLA	B	806	X	-	-	-
12	CLA	B	807	X	-	-	-
12	CLA	B	808	X	-	-	-
12	CLA	B	809	X	-	-	-
12	CLA	B	810	X	-	-	-
12	CLA	B	811	X	-	-	-
12	CLA	B	812	X	-	-	-
12	CLA	B	813	X	-	-	-
12	CLA	B	814	X	-	-	-
12	CLA	B	815	X	-	-	-
12	CLA	B	817	X	-	-	-
12	CLA	B	818	X	-	-	-
12	CLA	B	819	X	-	-	-
12	CLA	B	820	X	-	-	-
12	CLA	B	821	X	-	-	-
12	CLA	B	822	X	-	-	-
12	CLA	B	823	X	-	-	-
12	CLA	B	825	X	-	-	-
12	CLA	B	826	X	-	-	-
12	CLA	B	828	X	-	-	-
12	CLA	B	829	X	-	-	-
12	CLA	B	830	X	-	-	-
12	CLA	B	832	X	-	-	-
12	CLA	F	203	X	-	-	-
12	CLA	J	101	X	-	-	-

2 Entry composition

There are 17 unique types of molecules in this entry. The entry contains 22177 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		

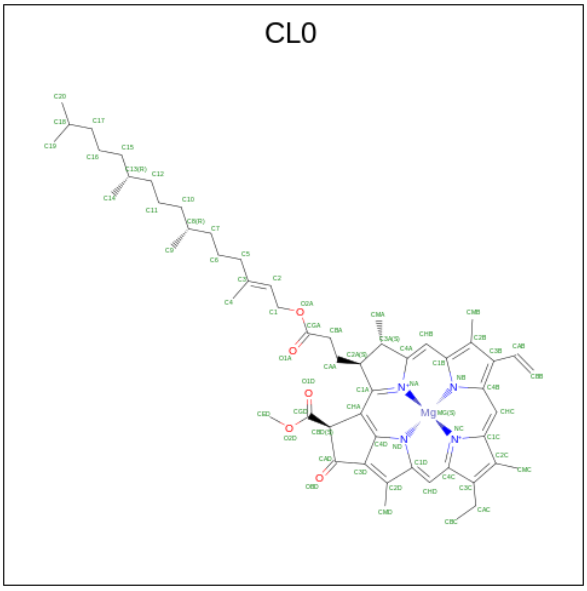
- Molecule 9 is a protein called Photosystem I reaction center subunit XI.

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

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

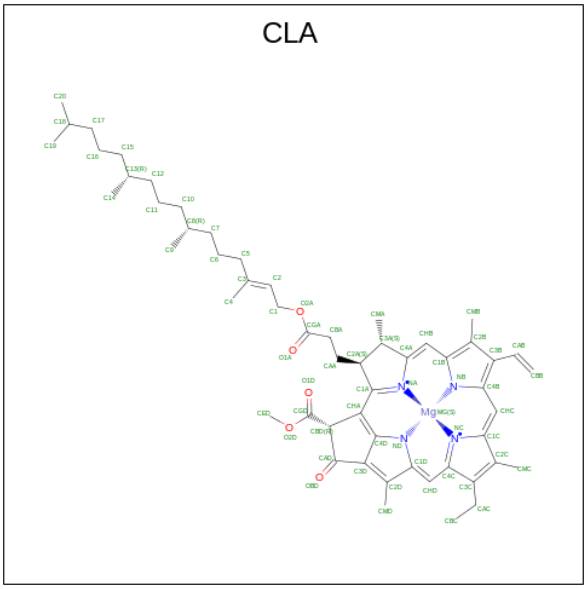
Mol	Chain	Residues	Atoms				AltConf	Trace
10	M	29	Total	C	N	O	0	0
			215	145	34	36		

- Molecule 11 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: $C_{55}H_{72}MgN_4O_5$).



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

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



Mol	Chain	Residues	Atoms					AltConf
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			54	44	1	4	5	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
12	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

Continued on next page...

Continued from previous page...

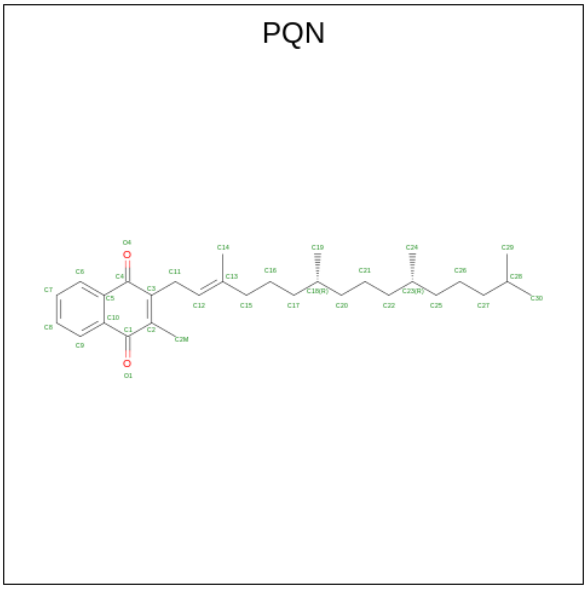
Mol	Chain	Residues	Atoms					AltConf
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

Continued on next page...

Continued from previous page...

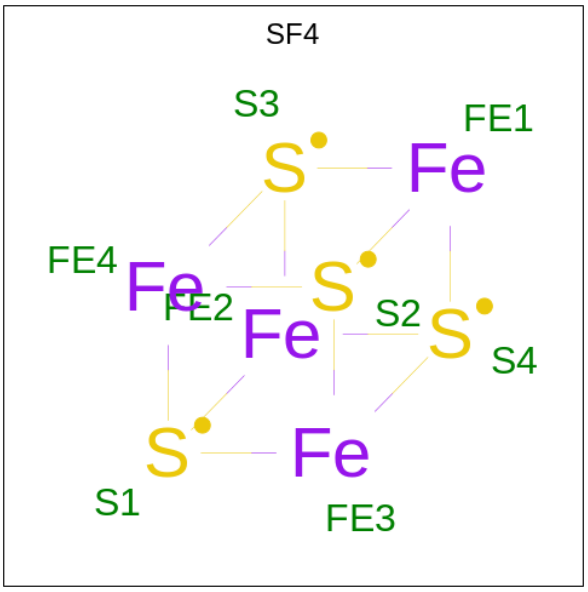
Mol	Chain	Residues	Atoms					AltConf
12	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	F	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	J	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	L	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
12	L	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
12	L	1	Total	C	Mg	N	O	0
			52	42	1	4	5	

- Molecule 13 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



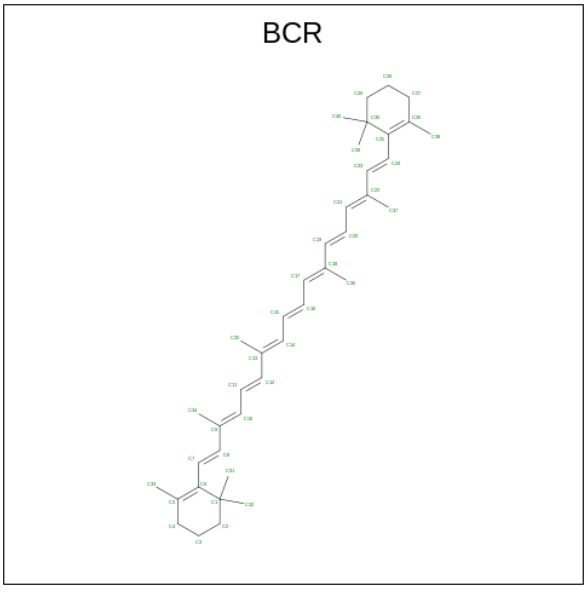
Mol	Chain	Residues	Atoms			AltConf
13	A	1	Total	C	O	0
			33	31	2	
13	B	1	Total	C	O	0
			33	31	2	

- Molecule 14 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



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

- Molecule 15 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$).



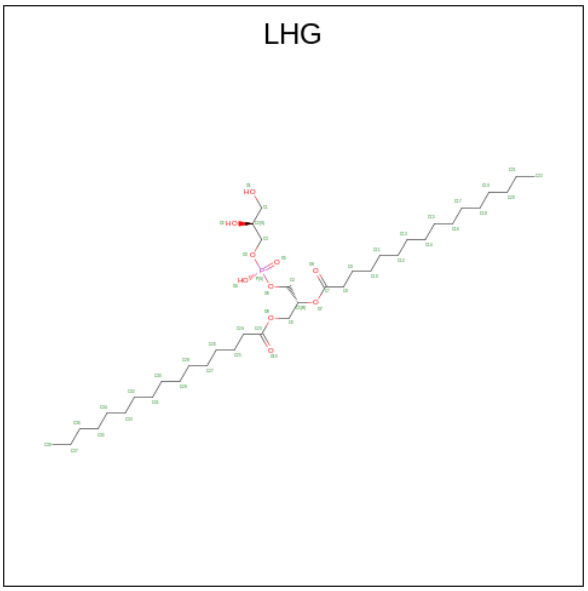
Mol	Chain	Residues	Atoms	AltConf
15	A	1	Total C 40 40	0

Continued on next page...

Continued from previous page...

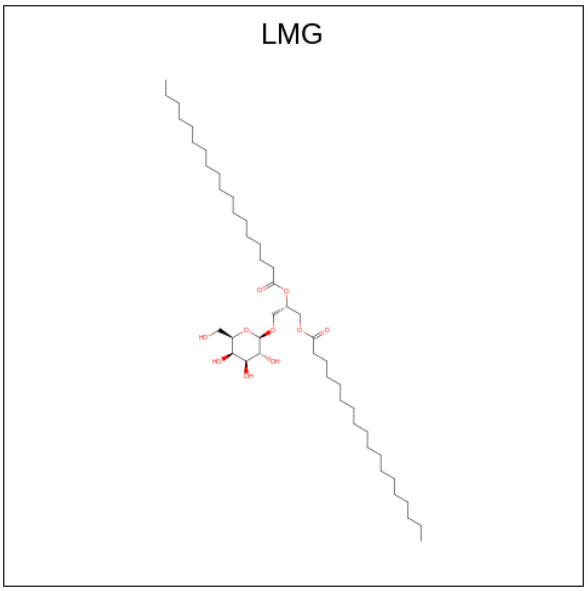
Mol	Chain	Residues	Atoms	AltConf
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	F	1	Total C 40 40	0
15	F	1	Total C 40 40	0
15	I	1	Total C 40 40	0
15	J	1	Total C 40 40	0
15	J	1	Total C 40 40	0
15	J	1	Total C 40 40	0
15	L	1	Total C 40 40	0
15	L	1	Total C 40 40	0
15	L	1	Total C 40 40	0
15	M	1	Total C 40 40	0

- Molecule 16 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms				AltConf
16	A	1	Total 49	C 38	O 10	P 1	0
16	A	1	Total 27	C 16	O 10	P 1	0

- Molecule 17 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



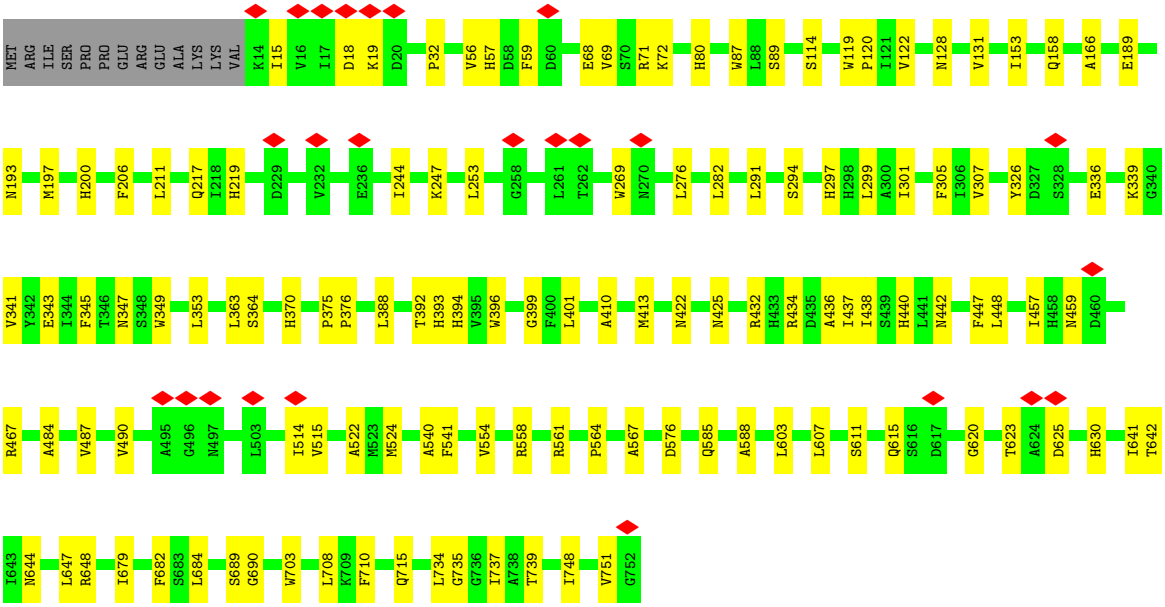
Mol	Chain	Residues	Atoms			AltConf
17	B	1	Total 55	C 45	O 10	0

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.

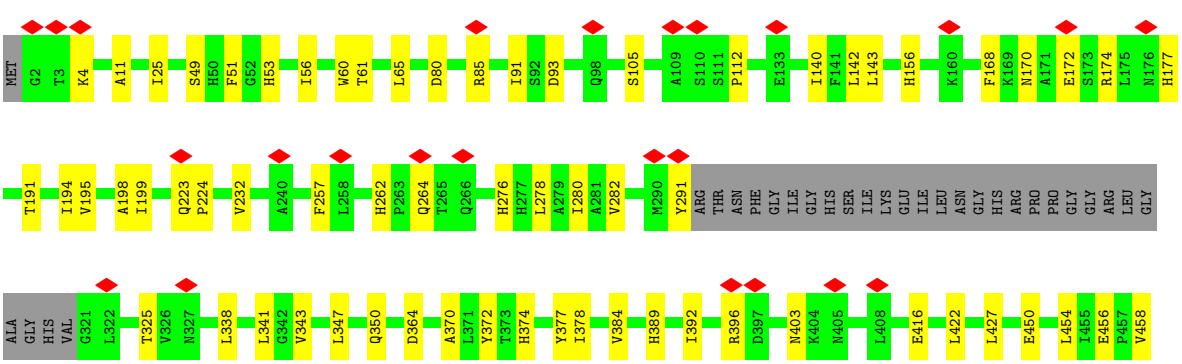
• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

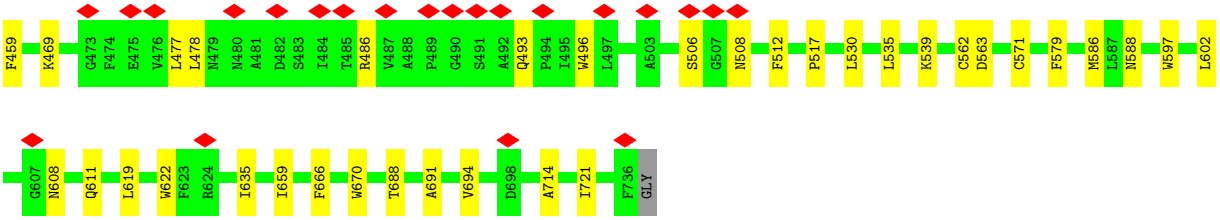
Chain A:



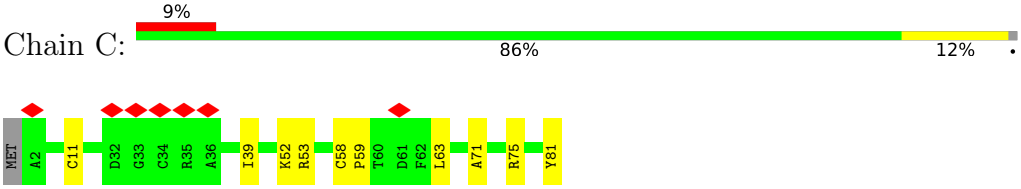
• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

Chain B:

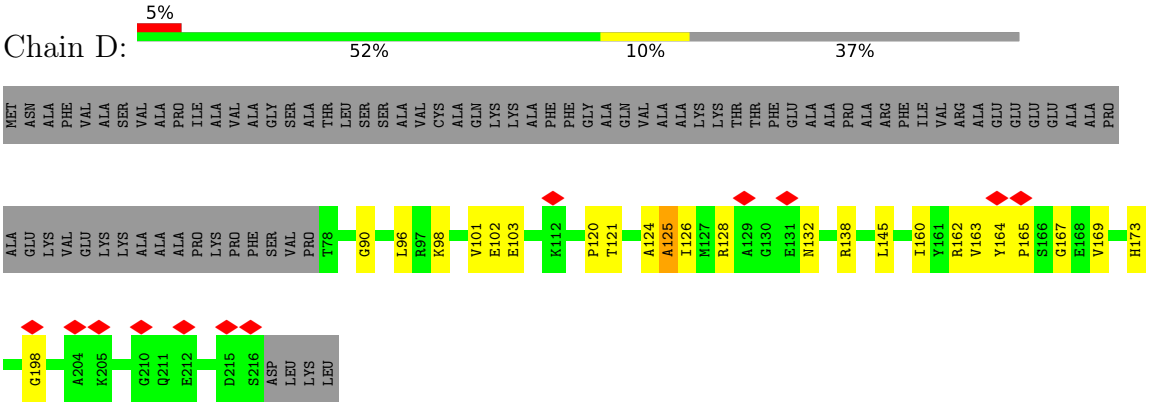




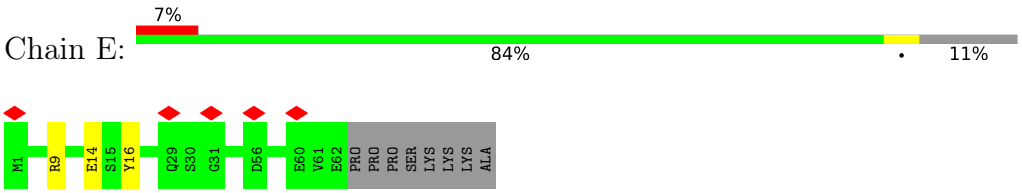
• Molecule 3: Photosystem I iron-sulfur center



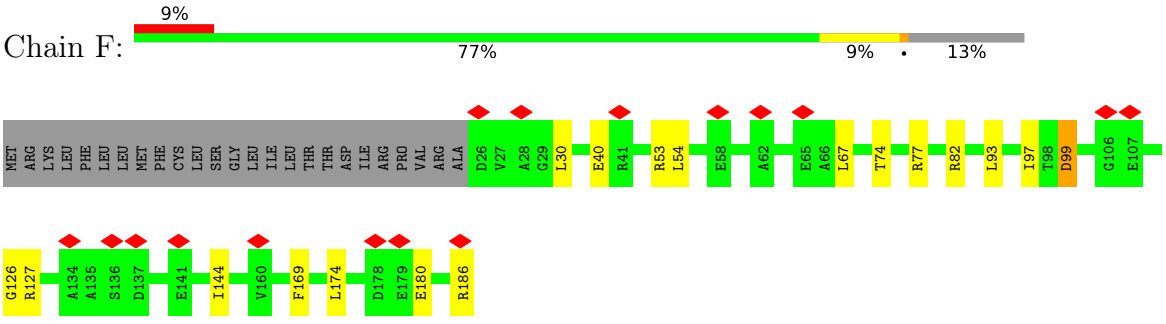
• Molecule 4: Photosystem I reaction center subunit II, cyanelle



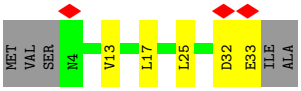
• Molecule 5: Photosystem I reaction center subunit IV



• Molecule 6: Photosystem I reaction center subunit III

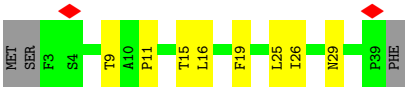


• Molecule 7: Photosystem I reaction center subunit VIII



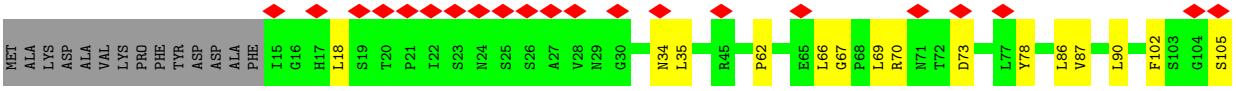
• Molecule 8: Photosystem I reaction center subunit IX

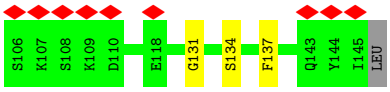
Chain J:



• Molecule 9: Photosystem I reaction center subunit XI

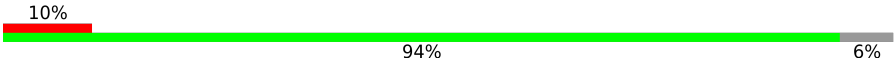
Chain L:

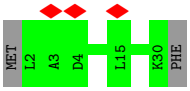




• Molecule 10: Photosystem I reaction center subunit XII

Chain M:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	110380	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	0.376	Depositor
Minimum map value	-0.292	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, CL0, BCR, LMG, CLA, 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	0.30	0/6000	0.47	0/8177
2	B	0.33	0/5820	0.62	1/7955 (0.0%)
3	C	0.35	0/611	0.74	0/828
4	D	0.31	0/1105	0.67	1/1489 (0.1%)
5	E	0.29	0/516	0.49	0/696
6	F	0.26	0/1281	0.49	0/1733
7	I	0.31	0/232	0.60	0/319
8	J	0.28	0/300	0.55	0/410
9	L	0.28	0/988	0.56	2/1342 (0.1%)
10	M	0.26	0/217	0.49	0/295
All	All	0.31	0/17070	0.56	4/23244 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	1
4	D	0	3
6	F	0	1
All	All	0	5

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	L	69	LEU	CA-CB-CG	6.07	129.25	115.30
2	B	93	ASP	CB-CG-OD1	5.33	123.09	118.30
4	D	125	ALA	C-N-CA	5.11	134.47	121.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	L	73	ASP	C-N-CA	5.08	132.97	122.30

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	493	GLN	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	96	0
2	B	5622	0	5406	71	0
3	C	601	0	576	7	0
4	D	1082	0	1099	15	0
5	E	508	0	507	3	0
6	F	1255	0	1249	14	0
7	I	228	0	247	5	0
8	J	292	0	302	6	0
9	L	965	0	970	14	0
10	M	215	0	239	0	0
11	A	65	0	72	3	0
12	A	2407	0	2290	103	0
12	B	1900	0	1927	89	0
12	F	45	0	33	1	0
12	J	45	0	33	1	0
12	L	163	0	148	11	0
13	A	33	0	46	3	0
13	B	33	0	46	5	0
14	A	8	0	0	0	0
14	C	16	0	0	0	0
15	A	240	0	336	18	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	B	120	0	168	8	0
15	F	80	0	112	7	0
15	I	40	0	56	5	0
15	J	120	0	168	8	0
15	L	120	0	168	11	0
15	M	40	0	56	2	0
16	A	76	0	98	3	0
17	B	55	0	86	7	0
All	All	22177	0	22059	358	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 8.

All (358) 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)
12:B:807:CLA:H162	12:B:822:CLA:HBB2	1.66	0.78
12:A:819:CLA:HAB	12:A:819:CLA:H8	1.72	0.71
12:B:802:CLA:H203	12:L:203:CLA:HBB1	1.73	0.71
1:A:307:VAL:HG12	15:A:846:BCR:H17C	1.75	0.68
12:B:829:CLA:H71	12:B:829:CLA:HBB1	1.75	0.68
12:A:809:CLA:HAB	15:J:102:BCR:HC7	1.76	0.67
1:A:363:LEU:HD21	12:A:819:CLA:H72	1.75	0.67
2:B:338:LEU:HD21	12:B:823:CLA:HAB	1.76	0.67
12:B:832:CLA:H121	15:I:101:BCR:H21C	1.76	0.66
1:A:399:GLY:HA3	1:A:603:LEU:HD11	1.76	0.66
8:J:9:THR:HG22	8:J:11:PRO:HD2	1.77	0.65
12:B:829:CLA:HBC2	15:J:104:BCR:HC7	1.80	0.64
12:B:831:CLA:HBB2	13:B:833:PQN:H141	1.80	0.64
12:A:841:CLA:HAB	13:A:844:PQN:H162	1.81	0.62
1:A:353:LEU:HD11	12:A:830:CLA:HBB1	1.81	0.62
12:A:833:CLA:HBB2	9:L:66:LEU:HD13	1.82	0.62
12:B:817:CLA:H122	12:B:817:CLA:HMC2	1.80	0.62
1:A:87:TRP:HA	12:A:807:CLA:HBB2	1.80	0.62
12:B:802:CLA:H192	15:L:205:BCR:H391	1.82	0.61
12:A:821:CLA:HMB2	12:A:825:CLA:HMA3	1.82	0.61
12:A:832:CLA:HMC2	12:L:203:CLA:H152	1.81	0.61
4:D:162:ARG:HH21	4:D:169:VAL:HB	1.65	0.61
1:A:345:PHE:HB3	12:A:825:CLA:HBC3	1.84	0.60
12:B:820:CLA:H161	15:B:835:BCR:H17C	1.84	0.59
2:B:4:LYS:HD3	7:I:33:GLU:HB2	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:824:CLA:HAB	12:B:825:CLA:H203	1.85	0.59
2:B:563:ASP:OD1	3:C:52:LYS:NZ	2.36	0.58
6:F:74:THR:HG22	6:F:77:ARG:HH21	1.69	0.58
2:B:456:GLU:HG3	6:F:30:LEU:HD11	1.85	0.57
1:A:737:ILE:HG21	12:A:828:CLA:HMC2	1.86	0.57
7:I:13:VAL:HA	7:I:17:LEU:HB2	1.85	0.57
12:B:832:CLA:HED3	17:B:837:LMG:H162	1.87	0.56
12:A:827:CLA:HED1	12:A:835:CLA:HAB	1.85	0.56
12:B:802:CLA:H143	15:L:201:BCR:H14C	1.86	0.56
12:B:804:CLA:H142	15:I:101:BCR:H393	1.87	0.56
12:A:807:CLA:HMB3	12:A:808:CLA:HHB	1.86	0.56
1:A:715:GLN:NE2	5:E:16:TYR:OH	2.39	0.56
1:A:561:ARG:O	4:D:138:ARG:NH1	2.39	0.55
2:B:622:TRP:HB3	12:B:803:CLA:H101	1.87	0.55
12:B:808:CLA:H8	12:B:808:CLA:HBB1	1.88	0.55
12:A:806:CLA:HHB	12:A:830:CLA:HAB	1.87	0.55
12:B:807:CLA:HAB	12:B:822:CLA:HMC2	1.89	0.55
1:A:18:ASP:OD2	1:A:71:ARG:NH2	2.40	0.55
1:A:432:ARG:HD2	4:D:90:GLY:HA3	1.88	0.55
12:A:805:CLA:H193	15:A:847:BCR:H10C	1.89	0.55
15:A:846:BCR:HC8	15:A:847:BCR:H382	1.89	0.55
12:B:801:CLA:H13	15:B:836:BCR:H10C	1.88	0.55
12:B:811:CLA:H42	9:L:78:TYR:HB3	1.89	0.55
2:B:56:ILE:HD11	15:M:101:BCR:HC7	1.89	0.54
12:B:807:CLA:H2	12:B:807:CLA:HED3	1.88	0.54
1:A:644:ASN:OD1	1:A:648:ARG:NH1	2.40	0.54
2:B:191:THR:HG21	2:B:278:LEU:HB2	1.88	0.54
1:A:197:MET:HB2	12:A:813:CLA:HBC2	1.90	0.54
1:A:564:PRO:HB3	4:D:120:PRO:HB3	1.89	0.54
12:A:821:CLA:H122	15:A:850:BCR:HC8	1.88	0.54
2:B:416:GLU:OE1	6:F:186:ARG:NH2	2.40	0.54
12:A:841:CLA:HMC2	15:F:201:BCR:H381	1.90	0.54
2:B:384:VAL:HG21	2:B:586:MET:HG2	1.90	0.54
2:B:377:TYR:HB3	12:B:821:CLA:HMC3	1.90	0.53
1:A:396:TRP:HB3	12:A:828:CLA:HMC3	1.90	0.53
12:A:819:CLA:H93	12:A:829:CLA:H162	1.89	0.53
12:B:807:CLA:H143	12:B:822:CLA:HBB2	1.90	0.53
12:B:808:CLA:H122	15:I:101:BCR:HC41	1.91	0.53
6:F:54:LEU:HD13	6:F:67:LEU:HB2	1.89	0.53
1:A:114:SER:HB2	1:A:131:VAL:HG21	1.90	0.53
9:L:86:LEU:HD21	15:L:201:BCR:H10C	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:832:CLA:HBA2	13:B:833:PQN:H262	1.90	0.53
9:L:67:GLY:O	9:L:70:ARG:NH1	2.40	0.53
12:B:806:CLA:HBD	12:B:806:CLA:H102	1.91	0.53
1:A:401:LEU:HD21	12:A:806:CLA:H142	1.91	0.53
1:A:540:ALA:HB1	12:A:838:CLA:HMB3	1.90	0.53
1:A:708:LEU:O	6:F:127:ARG:NH1	2.41	0.53
1:A:434:ARG:HA	1:A:437:ILE:HD12	1.91	0.52
12:A:834:CLA:H152	15:L:201:BCR:H372	1.90	0.52
12:A:854:CLA:HBC2	2:B:588:ASN:HB2	1.90	0.52
1:A:734:LEU:HD22	12:A:842:CLA:HMA1	1.92	0.52
2:B:341:LEU:HD12	12:B:806:CLA:HED3	1.92	0.52
1:A:247:LYS:NZ	12:A:815:CLA:OBD	2.43	0.52
1:A:467:ARG:NH2	12:A:834:CLA:OBD	2.42	0.52
1:A:343:GLU:O	1:A:347:ASN:ND2	2.43	0.52
2:B:350:GLN:NE2	2:B:372:TYR:OH	2.43	0.52
2:B:688:THR:HG23	2:B:691:ALA:HB3	1.92	0.52
1:A:585:GLN:HG3	2:B:670:TRP:HB2	1.92	0.52
2:B:53:HIS:HB2	12:B:806:CLA:HMB2	1.92	0.52
4:D:101:VAL:HG23	4:D:102:GLU:HG3	1.92	0.52
12:A:812:CLA:HBB2	12:A:820:CLA:H13	1.90	0.52
2:B:85:ARG:NH1	2:B:364:ASP:OD2	2.41	0.52
2:B:223:GLN:HG2	2:B:224:PRO:HD3	1.90	0.52
4:D:160:ILE:HG12	4:D:173:HIS:HB3	1.91	0.52
5:E:9:ARG:NH1	6:F:180:GLU:OE2	2.43	0.51
12:B:831:CLA:HAB	13:B:833:PQN:H151	1.93	0.51
6:F:99:ASP:OD1	6:F:99:ASP:N	2.43	0.51
1:A:689:SER:OG	1:A:690:GLY:N	2.43	0.51
1:A:410:ALA:HB1	1:A:588:ALA:HB1	1.92	0.51
1:A:735:GLY:O	1:A:739:THR:OG1	2.28	0.51
15:L:206:BCR:H403	15:L:206:BCR:H371	1.91	0.51
1:A:388:LEU:HD13	1:A:748:ILE:HG21	1.92	0.51
2:B:195:VAL:HA	2:B:199:ILE:HD12	1.93	0.51
9:L:34:ASN:HB3	12:L:202:CLA:HAC1	1.93	0.51
1:A:682:PHE:HZ	12:A:842:CLA:HBC2	1.76	0.50
2:B:170:ASN:ND2	2:B:172:GLU:OE1	2.43	0.50
9:L:67:GLY:H	9:L:70:ARG:HD3	1.76	0.50
1:A:393:HIS:HE1	12:A:828:CLA:ND	2.09	0.50
2:B:61:THR:HG23	2:B:142:LEU:HD13	1.92	0.50
1:A:457:ILE:HG22	12:A:834:CLA:HBC2	1.94	0.50
2:B:65:LEU:HD11	15:B:834:BCR:H271	1.94	0.50
2:B:325:THR:HG21	2:B:403:ASN:HD21	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:620:GLY:HA3	1:A:630:HIS:HA	1.94	0.50
1:A:217:GLN:HE22	1:A:294:SER:HB2	1.76	0.50
12:A:806:CLA:HBB2	15:A:848:BCR:H272	1.93	0.50
3:C:75:ARG:NE	4:D:103:GLU:OE2	2.40	0.50
4:D:98:LYS:NZ	4:D:103:GLU:O	2.42	0.50
4:D:120:PRO:HD3	4:D:145:LEU:HD13	1.94	0.50
12:A:821:CLA:H8	15:A:850:BCR:H12C	1.94	0.50
12:B:826:CLA:H61	15:F:201:BCR:H312	1.94	0.50
12:B:808:CLA:H92	12:B:808:CLA:HMC2	1.93	0.49
12:A:831:CLA:HBB2	12:A:839:CLA:HMC2	1.94	0.49
12:A:818:CLA:HHC	12:A:818:CLA:HBB1	1.94	0.49
12:A:807:CLA:HMB1	15:J:102:BCR:H24C	1.94	0.49
12:B:814:CLA:HMA1	15:B:834:BCR:H402	1.95	0.49
12:A:805:CLA:H72	15:A:848:BCR:H23C	1.93	0.49
2:B:458:VAL:HG11	6:F:97:ILE:HG23	1.95	0.49
2:B:666:PHE:HA	13:B:833:PQN:H9	1.94	0.49
8:J:25:LEU:O	8:J:29:ASN:ND2	2.46	0.49
1:A:734:LEU:HD21	12:A:842:CLA:HMB3	1.95	0.49
12:A:803:CLA:HMA1	12:A:808:CLA:H193	1.95	0.49
9:L:102:PHE:HB3	9:L:105:SER:HA	1.93	0.49
2:B:370:ALA:HB1	12:B:821:CLA:HMA1	1.95	0.48
12:B:807:CLA:H191	17:B:837:LMG:H272	1.96	0.48
12:A:809:CLA:HMA1	8:J:26:ILE:HD13	1.96	0.48
12:A:826:CLA:H42	12:A:838:CLA:HBA1	1.96	0.48
12:B:821:CLA:H161	17:B:837:LMG:H273	1.94	0.48
1:A:276:LEU:HD21	1:A:299:LEU:HD23	1.96	0.48
1:A:269:TRP:HZ3	12:A:817:CLA:H51	1.78	0.48
1:A:514:ILE:HG22	1:A:524:MET:HB2	1.96	0.48
2:B:51:PHE:CE2	12:B:812:CLA:HBB1	2.49	0.48
12:A:808:CLA:H42	12:A:828:CLA:H51	1.95	0.47
2:B:91:ILE:HB	2:B:112:PRO:HB2	1.96	0.47
2:B:168:PHE:O	2:B:174:ARG:NH1	2.47	0.47
2:B:422:LEU:HD13	2:B:535:LEU:HA	1.96	0.47
7:I:32:ASP:OD1	7:I:32:ASP:N	2.46	0.47
1:A:128:ASN:O	6:F:53:ARG:NH2	2.47	0.47
12:A:842:CLA:HBA1	16:A:852:LHG:H171	1.96	0.47
13:A:844:PQN:H161	15:F:201:BCR:H382	1.96	0.47
12:A:828:CLA:H62	12:A:828:CLA:H41	1.63	0.47
2:B:172:GLU:HB2	2:B:291:TYR:HB3	1.96	0.47
1:A:153:ILE:HG23	1:A:158:GLN:HB2	1.96	0.47
9:L:134:SER:HA	9:L:137:PHE:HB3	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:818:CLA:HMD2	12:B:822:CLA:H93	1.97	0.47
1:A:189:GLU:O	1:A:193:ASN:ND2	2.48	0.47
1:A:422:ASN:OD1	1:A:425:ASN:ND2	2.47	0.47
2:B:659:ILE:HD12	12:B:832:CLA:HMB3	1.96	0.47
1:A:515:VAL:HG13	1:A:522:ALA:HB3	1.97	0.47
12:B:801:CLA:H201	12:B:810:CLA:H2	1.96	0.47
12:A:854:CLA:HHB	12:B:803:CLA:H202	1.97	0.47
2:B:177:HIS:CG	12:B:813:CLA:HMC2	2.50	0.47
12:B:824:CLA:H42	15:F:202:BCR:H353	1.97	0.47
9:L:62:PRO:HG3	12:L:204:CLA:HBB1	1.97	0.47
12:A:805:CLA:H142	15:A:848:BCR:H372	1.97	0.46
1:A:282:LEU:HD21	1:A:375:PRO:HD2	1.97	0.46
1:A:413:MET:O	1:A:558:ARG:NH1	2.40	0.46
12:A:805:CLA:H41	12:A:829:CLA:H143	1.97	0.46
2:B:105:SER:OG	2:B:105:SER:O	2.34	0.46
2:B:343:VAL:HG13	12:B:819:CLA:HED1	1.95	0.46
12:A:832:CLA:H41	12:A:832:CLA:H61	1.56	0.46
12:B:801:CLA:H101	12:B:804:CLA:H121	1.97	0.46
12:B:802:CLA:H41	12:B:802:CLA:H61	1.66	0.46
12:A:842:CLA:H191	15:J:102:BCR:H343	1.97	0.46
2:B:378:ILE:HD13	12:B:822:CLA:HBB1	1.98	0.46
12:B:822:CLA:H3A	12:B:822:CLA:HBA2	1.74	0.46
6:F:169:PHE:HB2	6:F:174:LEU:HD13	1.98	0.46
12:A:840:CLA:H202	6:F:126:GLY:HA2	1.98	0.46
1:A:219:HIS:HB3	1:A:244:ILE:HD11	1.98	0.46
12:B:804:CLA:H202	12:B:832:CLA:H122	1.97	0.46
1:A:540:ALA:HB2	12:A:838:CLA:HMA1	1.98	0.46
1:A:349:TRP:HB3	12:A:805:CLA:HAC1	1.98	0.46
1:A:438:ILE:O	1:A:442:ASN:N	2.46	0.46
12:A:819:CLA:H71	12:A:829:CLA:H91	1.98	0.46
12:B:831:CLA:H8	12:B:832:CLA:H171	1.98	0.45
8:J:16:LEU:HA	8:J:19:PHE:HB3	1.98	0.45
12:A:808:CLA:HAB	15:J:102:BCR:H363	1.99	0.45
12:A:843:CLA:HBA2	12:A:843:CLA:H3A	1.63	0.45
12:B:813:CLA:H161	12:B:822:CLA:HMD2	1.97	0.45
2:B:56:ILE:HG21	12:B:807:CLA:HMD2	1.98	0.45
1:A:392:THR:HG22	1:A:607:LEU:HD22	1.98	0.45
12:A:854:CLA:H61	12:A:854:CLA:H41	1.69	0.45
1:A:679:ILE:HG21	1:A:734:LEU:HD23	1.98	0.45
2:B:194:ILE:HA	2:B:198:ALA:HB3	1.99	0.45
2:B:262:HIS:CD2	2:B:264:GLN:H	2.35	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:825:CLA:H142	15:F:202:BCR:H333	1.98	0.45
11:A:801:CL0:H15	11:A:801:CL0:H2	1.98	0.45
12:A:836:CLA:HHC	12:A:836:CLA:HBB1	1.99	0.45
12:A:803:CLA:HMD3	6:F:144:ILE:HG23	1.99	0.45
12:A:805:CLA:HBA1	12:A:805:CLA:H3A	1.69	0.45
1:A:370:HIS:ND1	12:A:818:CLA:OBD	2.49	0.45
2:B:224:PRO:HG2	2:B:232:VAL:HG11	1.98	0.45
2:B:608:ASN:HB3	2:B:611:GLN:HE22	1.82	0.45
12:B:807:CLA:H111	12:B:807:CLA:H72	1.80	0.45
1:A:641:ILE:HG13	1:A:642:THR:HG23	1.99	0.45
12:A:830:CLA:H91	16:A:852:LHG:H312	1.99	0.45
12:B:802:CLA:H13	9:L:90:LEU:HD21	1.99	0.45
1:A:375:PRO:HA	1:A:376:PRO:HD3	1.82	0.45
12:B:820:CLA:HED1	12:B:827:CLA:HAB	1.99	0.45
12:B:823:CLA:H142	17:B:837:LMG:H211	1.98	0.45
1:A:211:LEU:HG	12:A:815:CLA:HBB2	1.99	0.44
1:A:703:TRP:HH2	12:B:824:CLA:HED3	1.83	0.44
12:A:804:CLA:HBB1	12:A:811:CLA:H121	2.00	0.44
2:B:280:ILE:HD13	2:B:280:ILE:HA	1.83	0.44
8:J:15:THR:O	8:J:19:PHE:N	2.48	0.44
12:A:808:CLA:HBB2	12:A:828:CLA:H192	1.99	0.44
12:L:202:CLA:H3A	12:L:202:CLA:HBA2	1.69	0.44
1:A:448:LEU:HB3	1:A:541:PHE:HB2	1.98	0.44
12:A:832:CLA:HED1	9:L:18:LEU:HD21	1.98	0.44
12:A:854:CLA:H11	2:B:619:LEU:HD12	1.99	0.44
2:B:459:PHE:HD2	12:F:203:CLA:HMC2	1.82	0.44
12:A:818:CLA:H3A	12:A:818:CLA:HBA2	1.66	0.44
12:B:806:CLA:HBA1	12:B:806:CLA:H3A	1.75	0.44
12:A:830:CLA:HMD2	16:A:852:LHG:H281	2.00	0.44
15:I:101:BCR:H371	15:I:101:BCR:H24C	1.79	0.44
9:L:87:VAL:HG11	9:L:131:GLY:HA3	1.99	0.44
1:A:200:HIS:CG	12:A:813:CLA:HMC2	2.53	0.44
12:A:842:CLA:H143	13:A:844:PQN:H292	1.99	0.44
12:B:802:CLA:HHD	15:B:836:BCR:H383	1.99	0.44
9:L:35:LEU:HD21	12:L:202:CLA:HBB1	2.00	0.44
1:A:364:SER:OG	1:A:394:HIS:O	2.31	0.44
2:B:454:LEU:HB3	2:B:517:PRO:HB3	2.00	0.44
2:B:714:ALA:HA	17:B:837:LMG:H392	2.00	0.44
12:A:822:CLA:HBA2	12:A:822:CLA:H3A	1.62	0.43
2:B:60:TRP:HB2	12:B:809:CLA:H192	2.00	0.43
1:A:388:LEU:HD22	1:A:748:ILE:HD13	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:436:ALA:O	1:A:440:HIS:ND1	2.48	0.43
12:A:828:CLA:H3A	12:A:828:CLA:HBA2	1.64	0.43
12:B:832:CLA:H111	12:B:832:CLA:H91	1.79	0.43
12:B:832:CLA:H112	15:I:101:BCR:H19C	1.99	0.43
3:C:58:CYS:HA	3:C:59:PRO:HD3	1.90	0.43
4:D:198:GLY:N	5:E:14:GLU:OE1	2.50	0.43
1:A:611:SER:O	1:A:615:GLN:NE2	2.51	0.43
2:B:597:TRP:HB2	12:B:828:CLA:HMC1	2.00	0.43
12:B:829:CLA:H142	12:B:829:CLA:H112	1.86	0.43
1:A:80:HIS:HB2	12:A:805:CLA:HMB2	2.00	0.43
1:A:708:LEU:HB2	1:A:710:PHE:HE1	1.83	0.43
2:B:478:LEU:O	2:B:486:ARG:NH2	2.46	0.43
12:B:807:CLA:H41	12:B:807:CLA:H61	1.56	0.43
3:C:81:TYR:HB3	4:D:96:LEU:HD11	2.00	0.43
15:L:206:BCR:H15C	15:L:206:BCR:H351	1.89	0.43
1:A:576:ASP:OD1	3:C:53:ARG:NH2	2.44	0.43
12:B:829:CLA:H102	12:B:829:CLA:HMC2	2.01	0.43
1:A:748:ILE:HA	1:A:751:VAL:HG22	2.00	0.43
2:B:4:LYS:NZ	7:I:33:GLU:OE1	2.48	0.43
1:A:487:VAL:HA	1:A:490:VAL:HG22	1.99	0.43
1:A:684:LEU:HB2	12:A:802:CLA:HMC3	2.00	0.43
2:B:80:ASP:OD2	2:B:80:ASP:N	2.52	0.43
2:B:377:TYR:CD1	12:B:821:CLA:HAB	2.54	0.43
2:B:721:ILE:HD13	12:B:821:CLA:HMC2	2.00	0.43
12:B:820:CLA:H13	15:B:835:BCR:H15C	2.00	0.43
1:A:119:TRP:CD2	12:A:809:CLA:HED3	2.54	0.43
15:A:850:BCR:H15C	15:A:850:BCR:H351	1.85	0.43
6:F:40:GLU:OE1	6:F:82:ARG:NH2	2.52	0.43
12:A:832:CLA:H62	12:L:203:CLA:H72	2.01	0.43
12:A:832:CLA:HMB1	12:B:802:CLA:HAA2	2.00	0.43
15:A:848:BCR:H20C	15:A:848:BCR:H361	1.82	0.43
4:D:163:VAL:HG23	4:D:167:GLY:HA3	2.00	0.43
2:B:156:HIS:HE1	12:B:812:CLA:NA	2.17	0.42
12:A:808:CLA:H3A	12:A:808:CLA:HBA2	1.59	0.42
2:B:389:HIS:HA	2:B:392:ILE:HD12	2.01	0.42
2:B:506:SER:OG	2:B:508:ASN:OD1	2.36	0.42
1:A:15:ILE:HG21	12:A:810:CLA:HAA2	2.02	0.42
12:A:805:CLA:H162	12:A:805:CLA:H122	1.73	0.42
12:A:828:CLA:O1D	12:A:829:CLA:HHB	2.20	0.42
12:A:830:CLA:H203	12:A:830:CLA:H161	1.86	0.42
12:A:833:CLA:H41	12:B:802:CLA:HBC2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:823:CLA:H41	12:B:823:CLA:H61	1.69	0.42
2:B:25:ILE:HA	12:B:805:CLA:HMD3	2.02	0.42
12:A:827:CLA:HBB1	12:A:835:CLA:HMA2	2.01	0.42
3:C:11:CYS:HB3	3:C:39:ILE:HG13	2.01	0.42
1:A:19:LYS:HD3	1:A:19:LYS:HA	1.93	0.42
2:B:257:PHE:HE2	2:B:496:TRP:HE3	1.66	0.42
15:B:835:BCR:H15C	15:B:835:BCR:H351	1.89	0.42
1:A:647:LEU:HD23	2:B:635:ILE:HD11	2.00	0.42
12:J:101:CLA:HMC3	15:J:103:BCR:H11C	2.02	0.42
1:A:647:LEU:HA	1:A:647:LEU:HD12	1.83	0.42
15:J:104:BCR:H11C	15:J:104:BCR:H341	1.94	0.42
12:A:836:CLA:HMB1	15:A:850:BCR:H292	2.00	0.42
15:A:851:BCR:H342	15:A:851:BCR:H331	2.02	0.42
15:L:206:BCR:H20C	15:L:206:BCR:H361	1.84	0.42
1:A:438:ILE:HD13	1:A:438:ILE:HA	1.93	0.42
12:B:818:CLA:HBA2	12:B:818:CLA:H3A	1.82	0.42
1:A:119:TRP:HA	1:A:120:PRO:HD3	1.94	0.41
1:A:484:ALA:HA	12:A:837:CLA:HBA1	2.02	0.41
2:B:469:LYS:NZ	2:B:512:PHE:O	2.48	0.41
7:I:25:LEU:HD13	15:L:205:BCR:HC8	2.01	0.41
1:A:554:VAL:HG21	15:A:850:BCR:HC31	2.02	0.41
2:B:61:THR:HG21	12:B:822:CLA:H42	2.03	0.41
12:B:802:CLA:H202	12:B:802:CLA:H162	1.83	0.41
1:A:434:ARG:NH1	4:D:121:THR:O	2.52	0.41
12:A:832:CLA:HBB1	12:L:203:CLA:H121	2.02	0.41
15:A:848:BCR:H15C	15:A:848:BCR:H351	1.93	0.41
4:D:103:GLU:HG3	4:D:162:ARG:HD2	2.02	0.41
15:L:201:BCR:H24C	15:L:201:BCR:H371	1.93	0.41
1:A:59:PHE:HB2	1:A:69:VAL:HG13	2.01	0.41
1:A:297:HIS:O	1:A:301:ILE:HG12	2.21	0.41
11:A:801:CL0:H72	11:A:801:CL0:H10	1.79	0.41
2:B:374:HIS:HE2	12:B:822:CLA:C1B	2.34	0.41
15:L:205:BCR:H15C	15:L:205:BCR:H351	1.89	0.41
1:A:363:LEU:HD11	12:A:819:CLA:H52	2.02	0.41
2:B:49:SER:HB3	12:B:806:CLA:HBB1	2.03	0.41
2:B:450:GLU:HA	6:F:93:LEU:HD22	2.02	0.41
1:A:89:SER:HB3	1:A:166:ALA:HB3	2.03	0.41
12:A:802:CLA:HBA2	2:B:427:LEU:HD23	2.03	0.41
12:A:820:CLA:H142	12:A:820:CLA:H111	1.95	0.41
12:B:810:CLA:H13	17:B:837:LMG:H212	2.03	0.41
12:B:816:CLA:H3A	12:B:816:CLA:HBA2	1.66	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:202:BCR:H11C	15:F:202:BCR:H341	1.93	0.41
15:J:103:BCR:H15C	15:J:103:BCR:H351	1.94	0.41
1:A:15:ILE:HD11	12:A:812:CLA:HBD	2.01	0.41
1:A:305:PHE:HE1	12:A:821:CLA:HHC	1.85	0.41
12:A:819:CLA:HBA2	12:A:819:CLA:H3A	1.83	0.41
15:A:847:BCR:H361	15:A:847:BCR:H20C	1.82	0.41
15:A:850:BCR:H11C	15:A:850:BCR:H341	1.90	0.41
2:B:282:VAL:HG21	12:B:816:CLA:HAB	2.01	0.41
2:B:530:LEU:HD12	12:B:830:CLA:HED3	2.03	0.41
15:B:835:BCR:H24C	15:B:835:BCR:H371	1.86	0.41
8:J:11:PRO:O	8:J:15:THR:OG1	2.31	0.41
15:L:201:BCR:H15C	15:L:201:BCR:H351	1.93	0.41
12:L:203:CLA:H112	12:L:203:CLA:H142	1.83	0.41
12:L:204:CLA:H62	12:L:204:CLA:H41	1.81	0.41
15:M:101:BCR:H15C	15:M:101:BCR:H351	1.98	0.41
1:A:68:GLU:OE2	1:A:72:LYS:NZ	2.54	0.41
1:A:326:TYR:OH	12:A:824:CLA:OBD	2.31	0.41
1:A:459:ASN:HD22	1:A:641:ILE:HB	1.85	0.41
1:A:623:THR:HG23	1:A:625:ASP:H	1.85	0.41
12:A:833:CLA:C3B	12:A:834:CLA:HMB2	2.51	0.41
2:B:140:ILE:HA	2:B:143:LEU:HD12	2.03	0.41
13:B:833:PQN:H301	17:B:837:LMG:H201	2.03	0.41
12:A:812:CLA:H41	12:A:812:CLA:H62	1.62	0.40
12:B:811:CLA:H203	12:B:811:CLA:H161	1.90	0.40
1:A:32:PRO:HB3	12:A:803:CLA:HAC1	2.03	0.40
2:B:11:ALA:HB1	3:C:71:ALA:HB2	2.03	0.40
12:B:801:CLA:H91	12:B:804:CLA:H8	2.04	0.40
12:B:823:CLA:H143	12:B:823:CLA:H111	1.88	0.40
4:D:128:ARG:H	4:D:132:ASN:HD22	1.68	0.40
15:F:201:BCR:H15C	15:F:201:BCR:H351	1.96	0.40
1:A:57:HIS:HB3	12:A:805:CLA:HAB	2.02	0.40
1:A:206:PHE:HE2	12:A:829:CLA:H13	1.87	0.40
1:A:291:LEU:HD23	1:A:291:LEU:HA	1.94	0.40
1:A:336:GLU:HB3	1:A:339:LYS:HE3	2.03	0.40
1:A:558:ARG:HA	1:A:567:ALA:HB2	2.02	0.40
12:A:831:CLA:HED2	9:L:18:LEU:HD12	2.03	0.40
15:A:849:BCR:H20C	15:A:849:BCR:H361	1.86	0.40
12:B:804:CLA:H143	12:B:804:CLA:H111	1.95	0.40
12:L:203:CLA:H193	12:L:203:CLA:H161	1.85	0.40
1:A:341:VAL:HG11	12:A:824:CLA:HMD3	2.03	0.40
1:A:447:PHE:HZ	12:A:838:CLA:HMC3	1.87	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A:801:CL0:H49	11:A:801:CL0:H41	1.91	0.40
15:A:847:BCR:H15C	15:A:847:BCR:H351	1.88	0.40
2:B:276:HIS:HE2	12:B:818:CLA:C2B	2.34	0.40
2:B:347:LEU:HD23	12:B:818:CLA:H52	2.03	0.40
12:B:829:CLA:HBA2	12:B:829:CLA:H3A	1.66	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%)	701 (95%)	35 (5%)	1 (0%)	48 80
2	B	702/737 (95%)	669 (95%)	31 (4%)	2 (0%)	37 69
3	C	78/81 (96%)	72 (92%)	5 (6%)	1 (1%)	10 41
4	D	137/220 (62%)	114 (83%)	21 (15%)	2 (2%)	8 38
5	E	60/70 (86%)	53 (88%)	7 (12%)	0	100 100
6	F	159/186 (86%)	151 (95%)	8 (5%)	0	100 100
7	I	28/35 (80%)	27 (96%)	1 (4%)	0	100 100
8	J	35/40 (88%)	33 (94%)	2 (6%)	0	100 100
9	L	129/146 (88%)	119 (92%)	10 (8%)	0	100 100
10	M	27/31 (87%)	27 (100%)	0	0	100 100
All	All	2092/2298 (91%)	1966 (94%)	120 (6%)	6 (0%)	38 69

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	63	LEU
1	A	122	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	477	LEU
2	B	562	CYS
4	D	126	ILE
4	D	165	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	598/610 (98%)	596 (100%)	2 (0%)	91 96
2	B	574/596 (96%)	568 (99%)	6 (1%)	73 87
3	C	67/68 (98%)	67 (100%)	0	100 100
4	D	114/171 (67%)	114 (100%)	0	100 100
5	E	58/65 (89%)	58 (100%)	0	100 100
6	F	133/156 (85%)	133 (100%)	0	100 100
7	I	27/31 (87%)	27 (100%)	0	100 100
8	J	32/35 (91%)	32 (100%)	0	100 100
9	L	99/111 (89%)	99 (100%)	0	100 100
10	M	21/23 (91%)	21 (100%)	0	100 100
All	All	1723/1866 (92%)	1715 (100%)	8 (0%)	85 93

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	56	VAL
1	A	253	LEU
2	B	396	ARG
2	B	539	LYS
2	B	571	CYS
2	B	579	PHE
2	B	602	LEU
2	B	694	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (22) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	51	ASN
1	A	57	HIS
1	A	107	ASN
1	A	193	ASN
1	A	217	GLN
1	A	259	GLN
1	A	350	HIS
1	A	497	ASN
2	B	114	ASN
2	B	156	HIS
2	B	262	HIS
2	B	350	GLN
2	B	403	ASN
2	B	480	ASN
2	B	611	GLN
2	B	613	ASN
2	B	675	GLN
4	D	148	GLN
5	E	52	ASN
6	F	35	GLN
6	F	52	ASN
8	J	29	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

108 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	$\#\|Z\| > 2$
12	CLA	B	807	-	65,73,73	2.02	16 (24%)	76,113,113	2.78	28 (36%)
12	CLA	B	812	-	45,53,73	2.48	16 (35%)	52,89,113	3.16	24 (46%)
12	CLA	F	203	6	45,53,73	2.50	16 (35%)	52,89,113	3.13	24 (46%)
12	CLA	A	841	-	51,59,73	2.34	16 (31%)	59,96,113	3.09	27 (45%)
15	BCR	L	205	-	41,41,41	1.10	2 (4%)	56,56,56	1.26	6 (10%)
12	CLA	B	806	-	65,73,73	2.02	14 (21%)	76,113,113	2.75	28 (36%)
15	BCR	A	846	-	41,41,41	1.08	2 (4%)	56,56,56	1.32	9 (16%)
12	CLA	B	829	-	65,73,73	1.99	16 (24%)	76,113,113	2.76	28 (36%)
12	CLA	A	815	-	45,53,73	2.48	16 (35%)	52,89,113	3.18	23 (44%)
12	CLA	A	805	-	65,73,73	2.03	15 (23%)	76,113,113	2.72	31 (40%)
12	CLA	A	809	1	45,53,73	2.42	17 (37%)	52,89,113	3.09	25 (48%)
12	CLA	A	833	-	65,73,73	2.02	16 (24%)	76,113,113	2.74	31 (40%)
13	PQN	A	844	-	34,34,34	1.54	2 (5%)	42,45,45	1.04	2 (4%)
12	CLA	A	840	-	65,73,73	2.06	17 (26%)	76,113,113	2.64	29 (38%)
12	CLA	A	819	-	65,73,73	2.05	16 (24%)	76,113,113	2.64	27 (35%)
12	CLA	A	843	16	52,60,73	2.31	18 (34%)	60,97,113	3.02	23 (38%)
12	CLA	B	802	-	65,73,73	2.03	17 (26%)	76,113,113	2.62	28 (36%)
12	CLA	B	828	-	46,54,73	2.38	17 (36%)	53,90,113	3.22	25 (47%)
12	CLA	B	831	-	65,73,73	2.06	16 (24%)	76,113,113	2.70	29 (38%)
12	CLA	L	203	-	65,73,73	1.99	16 (24%)	76,113,113	2.76	26 (34%)
12	CLA	A	834	-	65,73,73	2.02	15 (23%)	76,113,113	2.80	25 (32%)
12	CLA	A	842	-	65,73,73	2.04	18 (27%)	76,113,113	2.66	25 (32%)
15	BCR	J	102	-	41,41,41	1.07	2 (4%)	56,56,56	1.28	5 (8%)
12	CLA	B	805	2	54,62,73	2.26	17 (31%)	62,99,113	2.99	26 (41%)
12	CLA	B	830	-	47,55,73	2.35	17 (36%)	54,91,113	3.16	24 (44%)
12	CLA	A	802	-	45,53,73	2.44	15 (33%)	52,89,113	3.20	26 (50%)
12	CLA	B	824	-	49,57,73	2.40	17 (34%)	55,93,113	3.30	25 (45%)
14	SF4	A	845	1,2	0,12,12	-	-	-		
12	CLA	L	204	-	52,60,73	2.28	16 (30%)	60,97,113	3.09	26 (43%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	PQN	B	833	-	34,34,34	1.50	2 (5%)	42,45,45	1.21	4 (9%)
12	CLA	B	826	-	58,66,73	2.14	16 (27%)	67,104,113	2.88	26 (38%)
12	CLA	L	202	9	46,54,73	2.47	16 (34%)	53,90,113	3.19	24 (45%)
12	CLA	A	820	-	61,69,73	2.14	16 (26%)	71,108,113	2.73	27 (38%)
12	CLA	B	823	-	65,73,73	2.06	16 (24%)	76,113,113	2.76	27 (35%)
12	CLA	A	830	-	65,73,73	2.02	16 (24%)	76,113,113	2.72	28 (36%)
12	CLA	B	819	-	46,54,73	2.48	16 (34%)	53,90,113	3.27	26 (49%)
12	CLA	A	803	-	45,53,73	2.45	17 (37%)	52,89,113	3.15	25 (48%)
12	CLA	A	839	-	50,58,73	2.28	18 (36%)	58,95,113	3.17	29 (50%)
12	CLA	B	808	-	65,73,73	2.00	16 (24%)	76,113,113	2.77	26 (34%)
15	BCR	L	201	-	41,41,41	1.10	2 (4%)	56,56,56	1.22	5 (8%)
15	BCR	J	103	-	41,41,41	1.08	2 (4%)	56,56,56	1.39	8 (14%)
12	CLA	B	820	-	65,73,73	2.04	16 (24%)	76,113,113	2.82	28 (36%)
12	CLA	A	811	-	65,73,73	2.04	16 (24%)	76,113,113	2.74	26 (34%)
12	CLA	A	823	-	51,59,73	2.33	17 (33%)	59,96,113	3.02	28 (47%)
12	CLA	A	826	-	55,63,73	2.22	16 (29%)	64,101,113	2.98	30 (46%)
12	CLA	B	810	2	65,73,73	2.01	16 (24%)	76,113,113	2.57	29 (38%)
14	SF4	C	101	3	0,12,12	-	-	-		
12	CLA	A	831	-	50,58,73	2.32	17 (34%)	58,95,113	3.04	27 (46%)
12	CLA	A	804	-	45,53,73	2.44	15 (33%)	52,89,113	3.24	26 (50%)
12	CLA	A	813	-	45,53,73	2.45	18 (40%)	52,89,113	3.09	23 (44%)
12	CLA	A	837	-	51,59,73	2.32	17 (33%)	59,96,113	3.03	25 (42%)
12	CLA	B	817	-	59,67,73	2.15	16 (27%)	68,105,113	2.87	26 (38%)
15	BCR	A	849	-	41,41,41	1.07	2 (4%)	56,56,56	1.33	7 (12%)
12	CLA	A	816	-	49,57,73	2.38	17 (34%)	55,93,113	3.07	24 (43%)
15	BCR	A	850	-	41,41,41	1.11	2 (4%)	56,56,56	1.33	7 (12%)
12	CLA	B	816	-	55,63,73	2.29	18 (32%)	64,101,113	2.99	26 (40%)
15	BCR	I	101	-	41,41,41	1.07	2 (4%)	56,56,56	1.29	8 (14%)
12	CLA	A	808	1	65,73,73	2.05	17 (26%)	76,113,113	2.65	26 (34%)
12	CLA	B	822	-	65,73,73	2.00	17 (26%)	76,113,113	2.60	27 (35%)
12	CLA	B	803	-	65,73,73	1.97	16 (24%)	76,113,113	2.78	31 (40%)
12	CLA	A	836	1	45,53,73	2.49	17 (37%)	52,89,113	3.24	25 (48%)
12	CLA	B	811	-	65,73,73	2.04	17 (26%)	76,113,113	2.67	33 (43%)
12	CLA	A	824	-	47,55,73	2.39	16 (34%)	54,91,113	3.11	26 (48%)
14	SF4	C	102	3	0,12,12	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
15	BCR	B	835	-	41,41,41	1.07	2 (4%)	56,56,56	1.33	8 (14%)
12	CLA	A	825	-	65,73,73	1.98	18 (27%)	76,113,113	2.62	28 (36%)
15	BCR	L	206	-	41,41,41	1.02	2 (4%)	56,56,56	1.35	10 (17%)
12	CLA	A	827	-	65,73,73	1.99	17 (26%)	76,113,113	2.77	28 (36%)
12	CLA	B	815	-	45,53,73	2.46	15 (33%)	52,89,113	3.18	24 (46%)
15	BCR	A	851	-	41,41,41	1.05	2 (4%)	56,56,56	1.23	6 (10%)
12	CLA	B	821	-	65,73,73	2.02	16 (24%)	76,113,113	2.77	27 (35%)
12	CLA	B	825	-	65,73,73	1.99	17 (26%)	76,113,113	2.92	28 (36%)
12	CLA	A	832	-	65,73,73	2.05	18 (27%)	76,113,113	2.77	28 (36%)
12	CLA	A	822	-	46,54,73	2.42	16 (34%)	53,90,113	3.18	24 (45%)
12	CLA	B	814	-	56,64,73	2.18	17 (30%)	65,102,113	2.85	27 (41%)
15	BCR	B	834	-	41,41,41	1.08	2 (4%)	56,56,56	1.20	5 (8%)
12	CLA	A	810	-	45,53,73	2.46	16 (35%)	52,89,113	3.17	23 (44%)
12	CLA	A	854	-	65,73,73	1.98	17 (26%)	76,113,113	2.85	30 (39%)
12	CLA	B	818	-	60,68,73	2.12	17 (28%)	70,107,113	2.84	29 (41%)
12	CLA	B	827	-	45,53,73	2.46	16 (35%)	52,89,113	3.21	24 (46%)
12	CLA	A	812	-	54,62,73	2.27	17 (31%)	62,99,113	2.91	27 (43%)
15	BCR	A	847	-	41,41,41	1.07	2 (4%)	56,56,56	1.28	7 (12%)
12	CLA	A	821	-	65,73,73	2.01	15 (23%)	76,113,113	2.66	26 (34%)
15	BCR	M	101	-	41,41,41	1.10	2 (4%)	56,56,56	1.26	5 (8%)
12	CLA	A	817	-	65,73,73	2.04	15 (23%)	76,113,113	2.75	25 (32%)
12	CLA	B	813	-	65,73,73	2.04	16 (24%)	76,113,113	2.72	28 (36%)
15	BCR	A	848	-	41,41,41	1.04	2 (4%)	56,56,56	1.43	10 (17%)
15	BCR	B	836	-	41,41,41	1.15	2 (4%)	56,56,56	1.20	5 (8%)
12	CLA	B	809	-	65,73,73	1.98	15 (23%)	76,113,113	2.84	29 (38%)
12	CLA	A	814	-	45,53,73	2.45	17 (37%)	52,89,113	3.15	26 (50%)
12	CLA	A	818	-	54,62,73	2.24	16 (29%)	62,99,113	2.92	26 (41%)
12	CLA	A	838	-	56,64,73	2.19	16 (28%)	65,102,113	2.94	28 (43%)
11	CL0	A	801	-	65,73,73	1.97	16 (24%)	76,113,113	2.74	31 (40%)
12	CLA	A	807	-	51,59,73	2.33	16 (31%)	59,96,113	3.03	28 (47%)
15	BCR	F	201	-	41,41,41	1.09	2 (4%)	56,56,56	1.27	5 (8%)
12	CLA	A	806	-	65,73,73	1.99	17 (26%)	76,113,113	2.83	28 (36%)
17	LMG	B	837	-	55,55,55	0.78	1 (1%)	63,63,63	1.37	7 (11%)
12	CLA	A	828	-	65,73,73	2.05	17 (26%)	76,113,113	2.68	27 (35%)
16	LHG	A	852	-	48,48,48	0.66	1 (2%)	51,54,54	1.28	7 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	LHG	A	853	12	26,26,48	0.83	0	29,32,54	1.32	3 (10%)
12	CLA	B	804	-	65,73,73	1.97	16 (24%)	76,113,113	2.61	25 (32%)
15	BCR	F	202	-	41,41,41	1.02	2 (4%)	56,56,56	1.21	4 (7%)
12	CLA	B	801	-	65,73,73	1.99	16 (24%)	76,113,113	2.82	28 (36%)
15	BCR	J	104	-	41,41,41	1.06	2 (4%)	56,56,56	1.29	6 (10%)
12	CLA	A	835	1	54,62,73	2.21	16 (29%)	62,99,113	2.99	27 (43%)
12	CLA	J	101	8	45,53,73	2.47	17 (37%)	52,89,113	3.17	25 (48%)
12	CLA	A	829	-	65,73,73	1.98	16 (24%)	76,113,113	2.62	28 (36%)
12	CLA	B	832	-	65,73,73	2.04	16 (24%)	76,113,113	2.70	28 (36%)

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
12	CLA	B	807	-	1/1/15/20	14/37/115/115	-
12	CLA	B	812	-	1/1/11/20	1/13/91/115	-
12	CLA	F	203	6	1/1/11/20	3/13/91/115	-
12	CLA	A	841	-	1/1/12/20	5/21/99/115	-
15	BCR	L	205	-	-	10/29/63/63	0/2/2/2
12	CLA	B	806	-	1/1/15/20	15/37/115/115	-
15	BCR	A	846	-	-	9/29/63/63	0/2/2/2
12	CLA	B	829	-	1/1/15/20	14/37/115/115	-
12	CLA	A	815	-	-	3/13/91/115	-
12	CLA	A	805	-	1/1/15/20	16/37/115/115	-
12	CLA	A	809	1	1/1/11/20	3/13/91/115	-
12	CLA	A	833	-	1/1/15/20	7/37/115/115	-
13	PQN	A	844	-	-	2/23/43/43	0/2/2/2
12	CLA	A	840	-	1/1/15/20	14/37/115/115	-
12	CLA	A	819	-	1/1/15/20	12/37/115/115	-
12	CLA	A	843	16	-	12/22/100/115	-
12	CLA	B	802	-	1/1/15/20	12/37/115/115	-
12	CLA	B	828	-	1/1/11/20	4/15/93/115	-
12	CLA	B	831	-	-	9/37/115/115	-
12	CLA	L	203	-	-	11/37/115/115	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CLA	A	834	-	-	14/37/115/115	-
12	CLA	A	842	-	1/1/15/20	5/37/115/115	-
15	BCR	J	102	-	-	14/29/63/63	0/2/2/2
12	CLA	B	805	2	1/1/12/20	4/24/102/115	-
12	CLA	B	830	-	1/1/11/20	3/16/94/115	-
12	CLA	A	802	-	1/1/11/20	3/13/91/115	-
12	CLA	B	824	-	-	9/18/96/115	-
14	SF4	A	845	1,2	-	-	0/6/5/5
12	CLA	L	204	-	-	7/22/100/115	-
13	PQN	B	833	-	-	5/23/43/43	0/2/2/2
12	CLA	B	826	-	1/1/13/20	11/29/107/115	-
12	CLA	L	202	9	-	4/15/93/115	-
12	CLA	A	820	-	1/1/14/20	8/33/111/115	-
12	CLA	B	823	-	1/1/15/20	15/37/115/115	-
12	CLA	A	830	-	1/1/15/20	8/37/115/115	-
12	CLA	B	819	-	1/1/11/20	6/15/93/115	-
12	CLA	A	803	-	1/1/11/20	6/13/91/115	-
12	CLA	A	839	-	-	5/19/97/115	-
12	CLA	B	808	-	1/1/15/20	3/37/115/115	-
15	BCR	L	201	-	-	11/29/63/63	0/2/2/2
15	BCR	J	103	-	-	16/29/63/63	0/2/2/2
12	CLA	B	820	-	1/1/15/20	6/37/115/115	-
12	CLA	A	811	-	1/1/15/20	10/37/115/115	-
12	CLA	A	826	-	1/1/13/20	8/25/103/115	-
12	CLA	B	810	2	1/1/15/20	12/37/115/115	-
12	CLA	A	823	-	-	8/21/99/115	-
14	SF4	C	101	3	-	-	0/6/5/5
12	CLA	A	831	-	1/1/12/20	5/19/97/115	-
12	CLA	A	804	-	1/1/11/20	2/13/91/115	-
12	CLA	A	813	-	1/1/11/20	8/13/91/115	-
12	CLA	A	837	-	1/1/12/20	8/21/99/115	-
12	CLA	B	817	-	1/1/13/20	9/30/108/115	-
15	BCR	A	849	-	-	7/29/63/63	0/2/2/2
12	CLA	A	816	-	1/1/11/20	2/18/96/115	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	BCR	A	850	-	-	10/29/63/63	0/2/2/2
12	CLA	B	816	-	-	5/25/103/115	-
15	BCR	I	101	-	-	9/29/63/63	0/2/2/2
12	CLA	A	808	1	1/1/15/20	17/37/115/115	-
12	CLA	B	822	-	1/1/15/20	10/37/115/115	-
12	CLA	B	803	-	1/1/15/20	11/37/115/115	-
12	CLA	A	836	1	1/1/11/20	5/13/91/115	-
12	CLA	B	811	-	1/1/15/20	9/37/115/115	-
12	CLA	A	824	-	1/1/11/20	2/16/94/115	-
14	SF4	C	102	3	-	-	0/6/5/5
15	BCR	B	835	-	-	12/29/63/63	0/2/2/2
12	CLA	A	825	-	1/1/15/20	12/37/115/115	-
15	BCR	L	206	-	-	15/29/63/63	0/2/2/2
12	CLA	A	827	-	1/1/15/20	13/37/115/115	-
12	CLA	B	815	-	1/1/11/20	4/13/91/115	-
15	BCR	A	851	-	-	18/29/63/63	0/2/2/2
12	CLA	B	821	-	1/1/15/20	19/37/115/115	-
12	CLA	B	825	-	1/1/15/20	13/37/115/115	-
12	CLA	A	832	-	1/1/15/20	9/37/115/115	-
12	CLA	A	822	-	-	3/15/93/115	-
12	CLA	B	814	-	1/1/13/20	8/27/105/115	-
15	BCR	B	834	-	-	10/29/63/63	0/2/2/2
12	CLA	A	810	-	1/1/11/20	2/13/91/115	-
12	CLA	A	854	-	1/1/15/20	7/37/115/115	-
12	CLA	B	818	-	1/1/14/20	5/31/109/115	-
12	CLA	B	827	-	-	6/13/91/115	-
12	CLA	A	812	-	-	8/24/102/115	-
15	BCR	A	847	-	-	8/29/63/63	0/2/2/2
12	CLA	A	821	-	1/1/15/20	13/37/115/115	-
15	BCR	M	101	-	-	13/29/63/63	0/2/2/2
12	CLA	A	817	-	-	8/37/115/115	-
12	CLA	B	813	-	1/1/15/20	18/37/115/115	-
15	BCR	A	848	-	-	11/29/63/63	0/2/2/2
15	BCR	B	836	-	-	10/29/63/63	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CLA	B	809	-	1/1/15/20	9/37/115/115	-
12	CLA	A	814	-	1/1/11/20	1/13/91/115	-
12	CLA	A	818	-	1/1/12/20	9/24/102/115	-
12	CLA	A	838	-	1/1/13/20	10/27/105/115	-
11	CL0	A	801	-	3/3/20/25	4/37/135/135	-
12	CLA	A	807	-	1/1/12/20	8/21/99/115	-
15	BCR	F	201	-	-	12/29/63/63	0/2/2/2
12	CLA	A	806	-	1/1/15/20	12/37/115/115	-
17	LMG	B	837	-	-	24/50/70/70	0/1/1/1
12	CLA	A	828	-	1/1/15/20	12/37/115/115	-
16	LHG	A	852	-	-	22/53/53/53	-
16	LHG	A	853	12	-	10/31/31/53	-
12	CLA	B	804	-	1/1/15/20	5/37/115/115	-
15	BCR	F	202	-	-	11/29/63/63	0/2/2/2
12	CLA	B	801	-	1/1/15/20	5/37/115/115	-
15	BCR	J	104	-	-	13/29/63/63	0/2/2/2
12	CLA	A	835	1	1/1/12/20	6/24/102/115	-
12	CLA	J	101	8	1/1/11/20	6/13/91/115	-
12	CLA	A	829	-	1/1/15/20	12/37/115/115	-
12	CLA	B	832	-	1/1/15/20	16/37/115/115	-

All (1370) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	844	PQN	C3-C2	7.50	1.48	1.35
13	B	833	PQN	C3-C2	7.00	1.48	1.35
12	B	816	CLA	C3B-C2B	6.54	1.49	1.40
12	A	837	CLA	C3B-C2B	6.27	1.49	1.40
12	B	805	CLA	C3B-C2B	6.19	1.49	1.40
12	B	824	CLA	C3B-C2B	6.11	1.48	1.40
12	B	819	CLA	C3B-C2B	6.10	1.48	1.40
12	B	821	CLA	C3B-C2B	6.04	1.48	1.40
12	A	828	CLA	C3B-C2B	6.04	1.48	1.40
12	A	802	CLA	C3B-C2B	6.00	1.48	1.40
12	A	854	CLA	C3B-C2B	5.98	1.48	1.40
12	F	203	CLA	C3B-C2B	5.90	1.48	1.40
12	A	841	CLA	C3B-C2B	5.89	1.48	1.40
12	A	820	CLA	C3B-C2B	5.88	1.48	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	805	CLA	C3B-C2B	5.87	1.48	1.40
12	A	836	CLA	C3B-C2B	5.86	1.48	1.40
12	A	825	CLA	C3B-C2B	5.86	1.48	1.40
12	L	202	CLA	C3B-C2B	5.85	1.48	1.40
12	J	101	CLA	C3B-C2B	5.84	1.48	1.40
12	B	804	CLA	C3B-C2B	5.83	1.48	1.40
12	B	830	CLA	C3B-C2B	5.82	1.48	1.40
12	A	803	CLA	C3B-C2B	5.81	1.48	1.40
12	A	822	CLA	C3B-C2B	5.81	1.48	1.40
12	A	823	CLA	C3B-C2B	5.79	1.48	1.40
12	B	811	CLA	C3B-C2B	5.79	1.48	1.40
12	B	807	CLA	C3B-C2B	5.75	1.48	1.40
12	A	812	CLA	C3B-C2B	5.74	1.48	1.40
12	A	806	CLA	C3B-C2B	5.73	1.48	1.40
12	A	811	CLA	C3B-C2B	5.72	1.48	1.40
12	B	831	CLA	C3B-C2B	5.70	1.48	1.40
12	A	832	CLA	C3B-C2B	5.70	1.48	1.40
12	A	808	CLA	C3B-C2B	5.69	1.48	1.40
12	B	809	CLA	C3B-C2B	5.69	1.48	1.40
12	L	204	CLA	C3B-C2B	5.69	1.48	1.40
12	A	842	CLA	C3B-C2B	5.69	1.48	1.40
12	A	809	CLA	C3B-C2B	5.67	1.48	1.40
12	B	814	CLA	C3B-C2B	5.66	1.48	1.40
12	A	815	CLA	C3B-C2B	5.65	1.48	1.40
12	B	806	CLA	C3B-C2B	5.63	1.48	1.40
12	A	838	CLA	C3B-C2B	5.63	1.48	1.40
12	A	840	CLA	C3B-C2B	5.63	1.48	1.40
12	A	818	CLA	C3B-C2B	5.63	1.48	1.40
12	B	820	CLA	C3B-C2B	5.62	1.48	1.40
12	A	839	CLA	C3B-C2B	5.61	1.48	1.40
12	A	843	CLA	C3B-C2B	5.61	1.48	1.40
12	B	827	CLA	C3B-C2B	5.61	1.48	1.40
12	A	816	CLA	C3B-C2B	5.60	1.48	1.40
12	B	812	CLA	C3B-C2B	5.60	1.48	1.40
12	A	813	CLA	C3B-C2B	5.58	1.48	1.40
12	A	804	CLA	C3B-C2B	5.57	1.48	1.40
12	B	802	CLA	C3B-C2B	5.57	1.48	1.40
12	B	813	CLA	C3B-C2B	5.56	1.48	1.40
12	A	810	CLA	C3B-C2B	5.55	1.48	1.40
12	B	815	CLA	C3B-C2B	5.55	1.48	1.40
12	B	823	CLA	C3B-C2B	5.55	1.48	1.40
12	A	817	CLA	C3B-C2B	5.53	1.48	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	832	CLA	C3C-C2C	5.53	1.48	1.36
12	A	831	CLA	C3B-C2B	5.53	1.48	1.40
12	B	817	CLA	C3B-C2B	5.52	1.48	1.40
12	A	824	CLA	C3B-C2B	5.52	1.48	1.40
12	L	202	CLA	C3C-C2C	5.50	1.48	1.36
12	A	807	CLA	C3B-C2B	5.50	1.48	1.40
12	L	202	CLA	C1D-ND	5.50	1.44	1.37
12	A	833	CLA	C3B-C2B	5.49	1.48	1.40
12	B	824	CLA	C3C-C2C	5.48	1.48	1.36
12	A	827	CLA	C3B-C2B	5.47	1.48	1.40
12	A	826	CLA	C3B-C2B	5.46	1.48	1.40
12	A	837	CLA	C3C-C2C	5.45	1.48	1.36
12	B	825	CLA	C3C-C2C	5.44	1.48	1.36
12	A	815	CLA	C1D-ND	5.42	1.44	1.37
12	B	801	CLA	C3B-C2B	5.41	1.47	1.40
12	A	843	CLA	C3C-C2C	5.41	1.48	1.36
12	A	814	CLA	C3B-C2B	5.41	1.47	1.40
12	B	828	CLA	C3B-C2B	5.41	1.47	1.40
12	B	819	CLA	C3C-C2C	5.41	1.48	1.36
12	A	842	CLA	C3C-C2C	5.40	1.48	1.36
12	L	203	CLA	C3B-C2B	5.39	1.47	1.40
12	B	812	CLA	C3C-C2C	5.37	1.48	1.36
12	B	825	CLA	C3B-C2B	5.37	1.47	1.40
12	A	830	CLA	C3B-C2B	5.37	1.47	1.40
12	A	816	CLA	C3C-C2C	5.36	1.48	1.36
12	A	834	CLA	C1D-ND	5.35	1.44	1.37
12	A	820	CLA	C1D-ND	5.35	1.44	1.37
12	A	836	CLA	C1D-ND	5.35	1.44	1.37
12	B	818	CLA	C3B-C2B	5.34	1.47	1.40
12	A	841	CLA	C3C-C2C	5.34	1.48	1.36
12	A	823	CLA	C3C-C2C	5.33	1.48	1.36
12	A	826	CLA	C3C-C2C	5.33	1.48	1.36
12	B	822	CLA	C3B-C2B	5.33	1.47	1.40
12	A	816	CLA	C1D-ND	5.33	1.44	1.37
12	A	804	CLA	CHC-C1C	5.33	1.48	1.35
12	A	830	CLA	C3C-C2C	5.33	1.48	1.36
12	B	826	CLA	C3C-C2C	5.33	1.48	1.36
12	B	831	CLA	C3C-C2C	5.32	1.48	1.36
12	B	817	CLA	C3C-C2C	5.32	1.48	1.36
12	B	815	CLA	C1D-ND	5.32	1.44	1.37
12	A	836	CLA	C3C-C2C	5.31	1.48	1.36
12	B	816	CLA	C3C-C2C	5.31	1.48	1.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	808	CLA	C3C-C2C	5.30	1.48	1.36
12	A	835	CLA	C3B-C2B	5.30	1.47	1.40
12	B	827	CLA	C1D-ND	5.30	1.44	1.37
12	A	813	CLA	C3C-C2C	5.30	1.48	1.36
12	L	204	CLA	C3C-C2C	5.30	1.48	1.36
12	L	203	CLA	C3C-C2C	5.30	1.48	1.36
12	J	101	CLA	C1D-ND	5.30	1.44	1.37
12	A	815	CLA	C3C-C2C	5.29	1.48	1.36
12	B	819	CLA	CHC-C1C	5.29	1.48	1.35
12	B	816	CLA	C1D-ND	5.29	1.44	1.37
12	B	820	CLA	C3C-C2C	5.28	1.48	1.36
12	A	808	CLA	C3C-C2C	5.28	1.48	1.36
12	B	830	CLA	C3C-C2C	5.28	1.47	1.36
12	B	808	CLA	C3B-C2B	5.28	1.47	1.40
12	A	811	CLA	C3C-C2C	5.28	1.47	1.36
12	F	203	CLA	C3C-C2C	5.27	1.47	1.36
12	A	802	CLA	C3C-C2C	5.27	1.47	1.36
12	A	820	CLA	C3C-C2C	5.27	1.47	1.36
12	B	827	CLA	C3C-C2C	5.26	1.47	1.36
12	B	829	CLA	C3B-C2B	5.26	1.47	1.40
12	B	820	CLA	CHC-C1C	5.26	1.48	1.35
12	B	823	CLA	C3C-C2C	5.25	1.47	1.36
12	A	843	CLA	C1D-ND	5.25	1.44	1.37
12	A	817	CLA	C3C-C2C	5.25	1.47	1.36
12	A	812	CLA	C1D-ND	5.25	1.44	1.37
12	A	807	CLA	C3C-C2C	5.25	1.47	1.36
12	A	840	CLA	O2D-CGD	5.24	1.46	1.33
12	A	841	CLA	C1D-ND	5.24	1.44	1.37
12	A	823	CLA	C1D-ND	5.23	1.44	1.37
12	A	807	CLA	C1D-ND	5.23	1.44	1.37
12	A	840	CLA	C3C-C2C	5.23	1.47	1.36
12	B	829	CLA	C3C-C2C	5.23	1.47	1.36
12	A	812	CLA	C3C-C2C	5.22	1.47	1.36
12	A	822	CLA	C1D-ND	5.22	1.44	1.37
12	B	805	CLA	C1D-ND	5.22	1.44	1.37
12	B	828	CLA	C3C-C2C	5.22	1.47	1.36
12	A	803	CLA	C1D-ND	5.22	1.44	1.37
12	B	806	CLA	C3C-C2C	5.22	1.47	1.36
12	A	803	CLA	C3C-C2C	5.22	1.47	1.36
12	A	833	CLA	C3C-C2C	5.22	1.47	1.36
12	A	810	CLA	C1D-ND	5.21	1.44	1.37
12	B	817	CLA	C1D-ND	5.21	1.44	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	814	CLA	C3C-C2C	5.21	1.47	1.36
12	A	819	CLA	C1D-ND	5.21	1.44	1.37
12	A	810	CLA	C3C-C2C	5.20	1.47	1.36
12	A	819	CLA	C3C-C2C	5.20	1.47	1.36
12	B	815	CLA	C3C-C2C	5.20	1.47	1.36
12	B	826	CLA	C3B-C2B	5.20	1.47	1.40
12	B	807	CLA	C1D-ND	5.20	1.44	1.37
12	A	821	CLA	CHC-C1C	5.20	1.48	1.35
12	A	827	CLA	C1D-ND	5.20	1.44	1.37
12	A	835	CLA	C3C-C2C	5.19	1.47	1.36
12	A	809	CLA	C3C-C2C	5.19	1.47	1.36
12	A	814	CLA	CHC-C1C	5.19	1.48	1.35
12	A	818	CLA	C1D-ND	5.18	1.44	1.37
12	A	814	CLA	C3C-C2C	5.18	1.47	1.36
12	A	818	CLA	C3C-C2C	5.18	1.47	1.36
12	A	821	CLA	C3C-C2C	5.18	1.47	1.36
12	B	811	CLA	O2D-CGD	5.18	1.45	1.33
12	B	820	CLA	C1D-ND	5.18	1.44	1.37
12	A	829	CLA	C3C-C2C	5.18	1.47	1.36
12	A	831	CLA	C3C-C2C	5.18	1.47	1.36
12	B	803	CLA	O2D-CGD	5.18	1.45	1.33
12	A	822	CLA	C3C-C2C	5.17	1.47	1.36
12	B	808	CLA	C1D-ND	5.17	1.44	1.37
12	B	822	CLA	C3C-C2C	5.17	1.47	1.36
12	B	824	CLA	O2D-CGD	5.17	1.45	1.33
12	B	802	CLA	O2D-CGD	5.17	1.45	1.33
11	A	801	CL0	C3C-C2C	5.17	1.47	1.36
12	A	834	CLA	C3C-C2C	5.16	1.47	1.36
12	L	202	CLA	O2D-CGD	5.16	1.45	1.33
12	A	827	CLA	C3C-C2C	5.16	1.47	1.36
12	A	814	CLA	C1D-ND	5.16	1.44	1.37
12	A	839	CLA	C3C-C2C	5.16	1.47	1.36
12	A	838	CLA	C3C-C2C	5.15	1.47	1.36
12	A	829	CLA	C3B-C2B	5.15	1.47	1.40
12	B	816	CLA	O2D-CGD	5.15	1.45	1.33
12	A	832	CLA	C3C-C2C	5.15	1.47	1.36
12	B	809	CLA	C3C-C2C	5.15	1.47	1.36
12	B	832	CLA	C3B-C2B	5.15	1.47	1.40
12	A	835	CLA	O2D-CGD	5.15	1.45	1.33
12	B	818	CLA	C3C-C2C	5.15	1.47	1.36
12	A	854	CLA	C3C-C2C	5.14	1.47	1.36
12	A	826	CLA	CHC-C1C	5.14	1.48	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	821	CLA	O2D-CGD	5.14	1.45	1.33
12	F	203	CLA	C1D-ND	5.14	1.44	1.37
12	A	828	CLA	C3C-C2C	5.13	1.47	1.36
12	B	818	CLA	C1D-ND	5.13	1.44	1.37
12	A	816	CLA	O2D-CGD	5.13	1.45	1.33
12	B	801	CLA	C3C-C2C	5.12	1.47	1.36
12	J	101	CLA	C3C-C2C	5.12	1.47	1.36
12	B	807	CLA	C3C-C2C	5.12	1.47	1.36
12	B	813	CLA	CHC-C1C	5.12	1.48	1.35
12	A	808	CLA	C1D-ND	5.12	1.44	1.37
12	B	811	CLA	C1D-ND	5.12	1.44	1.37
12	A	828	CLA	O2D-CGD	5.11	1.45	1.33
12	B	825	CLA	CHC-C1C	5.11	1.48	1.35
12	F	203	CLA	O2D-CGD	5.11	1.45	1.33
12	B	831	CLA	O2D-CGD	5.11	1.45	1.33
12	A	824	CLA	C3C-C2C	5.11	1.47	1.36
12	B	824	CLA	CHC-C1C	5.11	1.48	1.35
12	B	818	CLA	O2D-CGD	5.11	1.45	1.33
12	B	803	CLA	C3B-C2B	5.11	1.47	1.40
12	B	812	CLA	C1D-ND	5.10	1.44	1.37
12	L	204	CLA	CHC-C1C	5.10	1.48	1.35
12	A	834	CLA	C3B-C2B	5.10	1.47	1.40
12	A	832	CLA	C1D-ND	5.10	1.44	1.37
12	B	828	CLA	O2D-CGD	5.10	1.45	1.33
12	A	807	CLA	O2D-CGD	5.09	1.45	1.33
12	A	817	CLA	C1D-ND	5.09	1.44	1.37
12	A	802	CLA	CHC-C1C	5.09	1.48	1.35
12	A	819	CLA	C3B-C2B	5.09	1.47	1.40
12	A	817	CLA	O2D-CGD	5.09	1.45	1.33
12	A	825	CLA	O2D-CGD	5.09	1.45	1.33
12	B	817	CLA	O2D-CGD	5.09	1.45	1.33
12	B	814	CLA	CHC-C1C	5.09	1.48	1.35
12	A	806	CLA	C1D-ND	5.08	1.44	1.37
12	A	810	CLA	O2D-CGD	5.08	1.45	1.33
12	B	805	CLA	O2D-CGD	5.08	1.45	1.33
12	B	812	CLA	CHC-C1C	5.08	1.48	1.35
12	A	824	CLA	O2D-CGD	5.07	1.45	1.33
12	B	811	CLA	C3C-C2C	5.07	1.47	1.36
12	A	804	CLA	C3C-C2C	5.07	1.47	1.36
12	B	807	CLA	O2D-CGD	5.06	1.45	1.33
12	B	813	CLA	C3C-C2C	5.06	1.47	1.36
12	B	802	CLA	C3C-C2C	5.06	1.47	1.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	815	CLA	O2D-CGD	5.05	1.45	1.33
12	B	819	CLA	C1D-ND	5.05	1.44	1.37
12	A	812	CLA	O2D-CGD	5.05	1.45	1.33
12	B	817	CLA	CHC-C1C	5.05	1.47	1.35
12	B	813	CLA	C1D-ND	5.05	1.44	1.37
12	A	805	CLA	C3C-C2C	5.05	1.47	1.36
12	A	811	CLA	O2D-CGD	5.05	1.45	1.33
12	A	813	CLA	CHC-C1C	5.05	1.47	1.35
12	A	833	CLA	O2D-CGD	5.05	1.45	1.33
12	J	101	CLA	O2D-CGD	5.04	1.45	1.33
12	A	822	CLA	O2D-CGD	5.04	1.45	1.33
12	B	830	CLA	O2D-CGD	5.04	1.45	1.33
12	A	805	CLA	C1D-ND	5.04	1.44	1.37
12	A	824	CLA	C1D-ND	5.04	1.44	1.37
12	B	810	CLA	O2D-CGD	5.04	1.45	1.33
12	B	832	CLA	C1D-ND	5.03	1.44	1.37
12	A	828	CLA	CHC-C1C	5.03	1.47	1.35
12	A	838	CLA	C1D-ND	5.03	1.44	1.37
12	B	831	CLA	C1D-ND	5.03	1.44	1.37
12	B	828	CLA	C1D-ND	5.03	1.44	1.37
12	A	806	CLA	C3C-C2C	5.03	1.47	1.36
12	B	804	CLA	CHC-C1C	5.03	1.47	1.35
12	A	829	CLA	CHC-C1C	5.02	1.47	1.35
12	B	829	CLA	CHC-C1C	5.02	1.47	1.35
12	A	854	CLA	CHC-C1C	5.02	1.47	1.35
12	A	829	CLA	O2D-CGD	5.02	1.45	1.33
12	A	841	CLA	CHC-C1C	5.02	1.47	1.35
12	B	802	CLA	CHC-C1C	5.02	1.47	1.35
12	A	821	CLA	C3B-C2B	5.02	1.47	1.40
12	A	819	CLA	O2D-CGD	5.02	1.45	1.33
12	A	839	CLA	C1D-ND	5.02	1.44	1.37
12	A	843	CLA	O2D-CGD	5.02	1.45	1.33
12	B	812	CLA	O2D-CGD	5.02	1.45	1.33
12	A	842	CLA	O2D-CGD	5.01	1.45	1.33
12	B	810	CLA	C3B-C2B	5.01	1.47	1.40
12	A	818	CLA	O2D-CGD	5.01	1.45	1.33
12	A	840	CLA	CHC-C1C	5.00	1.47	1.35
12	A	832	CLA	CHC-C1C	5.00	1.47	1.35
12	A	813	CLA	C1D-ND	5.00	1.43	1.37
12	B	829	CLA	O2D-CGD	5.00	1.45	1.33
12	A	831	CLA	C1D-ND	5.00	1.43	1.37
12	A	811	CLA	CHC-C1C	4.99	1.47	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	A	801	CL0	O2D-CGD	4.99	1.45	1.33
12	A	811	CLA	C1D-ND	4.99	1.43	1.37
12	A	823	CLA	O2D-CGD	4.99	1.45	1.33
12	A	803	CLA	O2D-CGD	4.99	1.45	1.33
12	A	821	CLA	C1D-ND	4.99	1.43	1.37
11	A	801	CL0	C3B-C2B	4.98	1.47	1.40
12	B	826	CLA	C1D-ND	4.98	1.43	1.37
12	A	808	CLA	O2D-CGD	4.98	1.45	1.33
12	A	807	CLA	CHC-C1C	4.98	1.47	1.35
12	A	817	CLA	CHC-C1C	4.98	1.47	1.35
12	A	820	CLA	O2D-CGD	4.97	1.45	1.33
12	A	842	CLA	CHC-C1C	4.97	1.47	1.35
12	A	805	CLA	O2D-CGD	4.97	1.45	1.33
12	A	825	CLA	C3C-C2C	4.97	1.47	1.36
12	B	820	CLA	O2D-CGD	4.97	1.45	1.33
12	B	810	CLA	C1D-ND	4.97	1.43	1.37
12	A	824	CLA	CHC-C1C	4.97	1.47	1.35
12	J	101	CLA	CHC-C1C	4.97	1.47	1.35
12	A	808	CLA	CHC-C1C	4.96	1.47	1.35
12	B	824	CLA	C1D-ND	4.96	1.43	1.37
12	B	805	CLA	C3C-C2C	4.96	1.47	1.36
12	A	831	CLA	O2D-CGD	4.96	1.45	1.33
12	A	832	CLA	O2D-CGD	4.96	1.45	1.33
12	A	812	CLA	CHC-C1C	4.96	1.47	1.35
12	A	815	CLA	CHC-C1C	4.96	1.47	1.35
12	B	822	CLA	O2D-CGD	4.96	1.45	1.33
12	B	831	CLA	CHC-C1C	4.96	1.47	1.35
12	A	831	CLA	CHC-C1C	4.96	1.47	1.35
12	A	827	CLA	CHC-C1C	4.96	1.47	1.35
12	B	828	CLA	CHC-C1C	4.96	1.47	1.35
12	B	826	CLA	CHC-C1C	4.95	1.47	1.35
12	L	202	CLA	CHC-C1C	4.95	1.47	1.35
12	A	815	CLA	O2D-CGD	4.95	1.45	1.33
12	A	841	CLA	O2D-CGD	4.94	1.45	1.33
12	A	804	CLA	C1D-ND	4.94	1.43	1.37
12	A	836	CLA	O2D-CGD	4.94	1.45	1.33
12	A	802	CLA	O2D-CGD	4.94	1.45	1.33
12	B	808	CLA	O2D-CGD	4.94	1.45	1.33
12	A	843	CLA	CHC-C1C	4.94	1.47	1.35
12	A	804	CLA	O2D-CGD	4.94	1.45	1.33
12	A	837	CLA	C1D-ND	4.94	1.43	1.37
12	A	805	CLA	CHC-C1C	4.93	1.47	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	821	CLA	CHC-C1C	4.92	1.47	1.35
12	A	818	CLA	CHC-C1C	4.92	1.47	1.35
12	A	826	CLA	C1D-ND	4.92	1.43	1.37
12	A	833	CLA	CHC-C1C	4.92	1.47	1.35
12	L	203	CLA	CHC-C1C	4.91	1.47	1.35
12	A	830	CLA	O2D-CGD	4.91	1.45	1.33
12	B	825	CLA	C1D-ND	4.91	1.43	1.37
12	B	805	CLA	CHC-C1C	4.91	1.47	1.35
12	A	822	CLA	CHC-C1C	4.91	1.47	1.35
12	B	806	CLA	C1D-ND	4.91	1.43	1.37
12	B	830	CLA	CHC-C1C	4.90	1.47	1.35
12	B	808	CLA	CHC-C1C	4.90	1.47	1.35
12	A	821	CLA	O2D-CGD	4.90	1.45	1.33
12	A	840	CLA	C1D-ND	4.90	1.43	1.37
12	B	809	CLA	O2D-CGD	4.90	1.45	1.33
12	A	819	CLA	CHC-C1C	4.90	1.47	1.35
12	A	838	CLA	CHC-C1C	4.90	1.47	1.35
12	L	204	CLA	C1D-ND	4.89	1.43	1.37
12	B	810	CLA	C3C-C2C	4.89	1.47	1.36
12	B	806	CLA	O2D-CGD	4.89	1.45	1.33
12	B	809	CLA	C1D-ND	4.88	1.43	1.37
12	B	826	CLA	O2D-CGD	4.88	1.45	1.33
12	A	839	CLA	O2D-CGD	4.88	1.45	1.33
12	A	836	CLA	CHC-C1C	4.88	1.47	1.35
12	A	809	CLA	CHC-C1C	4.88	1.47	1.35
12	A	828	CLA	C1D-ND	4.88	1.43	1.37
12	L	204	CLA	O2D-CGD	4.88	1.45	1.33
12	A	809	CLA	C1D-ND	4.88	1.43	1.37
12	A	839	CLA	CHC-C1C	4.88	1.47	1.35
12	B	827	CLA	O2D-CGD	4.88	1.45	1.33
12	A	803	CLA	CHC-C1C	4.88	1.47	1.35
12	B	827	CLA	CHC-C1C	4.88	1.47	1.35
12	A	835	CLA	CHC-C1C	4.88	1.47	1.35
12	B	814	CLA	C1D-ND	4.87	1.43	1.37
12	L	203	CLA	O2D-CGD	4.87	1.45	1.33
12	A	827	CLA	O2D-CGD	4.87	1.45	1.33
12	A	833	CLA	C1D-ND	4.87	1.43	1.37
12	A	826	CLA	O2D-CGD	4.87	1.45	1.33
12	B	832	CLA	O2D-CGD	4.87	1.45	1.33
12	B	816	CLA	CHC-C1C	4.86	1.47	1.35
12	A	825	CLA	CHC-C1C	4.86	1.47	1.35
12	A	835	CLA	C1D-ND	4.86	1.43	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	810	CLA	CHC-C1C	4.84	1.47	1.35
12	A	842	CLA	C1D-ND	4.84	1.43	1.37
12	A	830	CLA	CHC-C1C	4.84	1.47	1.35
12	A	806	CLA	O2D-CGD	4.83	1.45	1.33
12	A	838	CLA	O2D-CGD	4.83	1.45	1.33
12	B	829	CLA	C1D-ND	4.82	1.43	1.37
12	B	822	CLA	CHC-C1C	4.82	1.47	1.35
12	B	830	CLA	C1D-ND	4.82	1.43	1.37
12	B	823	CLA	CHC-C1C	4.81	1.47	1.35
12	B	811	CLA	CHC-C1C	4.81	1.47	1.35
12	B	815	CLA	CHC-C1C	4.81	1.47	1.35
12	F	203	CLA	CHC-C1C	4.81	1.47	1.35
12	B	823	CLA	O2D-CGD	4.81	1.44	1.33
12	A	809	CLA	O2D-CGD	4.81	1.44	1.33
12	A	816	CLA	CHC-C1C	4.80	1.47	1.35
12	B	803	CLA	CHC-C1C	4.79	1.47	1.35
12	A	806	CLA	CHC-C1C	4.79	1.47	1.35
12	B	804	CLA	O2D-CGD	4.78	1.44	1.33
12	A	814	CLA	O2D-CGD	4.78	1.44	1.33
12	B	819	CLA	O2D-CGD	4.78	1.44	1.33
11	A	801	CL0	CHC-C1C	4.77	1.47	1.35
12	B	803	CLA	C1D-ND	4.77	1.43	1.37
12	L	203	CLA	C1D-ND	4.77	1.43	1.37
12	B	803	CLA	C3C-C2C	4.77	1.46	1.36
12	B	813	CLA	O2D-CGD	4.77	1.44	1.33
12	A	837	CLA	CHC-C1C	4.76	1.47	1.35
12	B	807	CLA	CHC-C1C	4.76	1.47	1.35
12	A	823	CLA	CHC-C1C	4.75	1.47	1.35
12	A	820	CLA	CHC-C1C	4.73	1.47	1.35
12	A	834	CLA	CHC-C1C	4.73	1.47	1.35
12	B	809	CLA	CHC-C1C	4.73	1.47	1.35
13	B	833	PQN	C10-C5	4.73	1.48	1.40
12	B	818	CLA	CHC-C1C	4.73	1.47	1.35
12	A	837	CLA	O2D-CGD	4.73	1.44	1.33
12	B	804	CLA	C3C-C2C	4.73	1.46	1.36
12	A	830	CLA	C1D-ND	4.72	1.43	1.37
12	B	814	CLA	O2D-CGD	4.71	1.44	1.33
12	A	834	CLA	O2D-CGD	4.69	1.44	1.33
12	B	821	CLA	C3C-C2C	4.69	1.46	1.36
12	B	802	CLA	C1D-ND	4.68	1.43	1.37
12	A	854	CLA	O2D-CGD	4.66	1.44	1.33
12	A	813	CLA	O2D-CGD	4.65	1.44	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	821	CLA	C1D-ND	4.62	1.43	1.37
12	B	823	CLA	C1D-ND	4.62	1.43	1.37
12	B	806	CLA	CHC-C1C	4.61	1.46	1.35
12	B	801	CLA	CHC-C1C	4.58	1.46	1.35
13	A	844	PQN	C10-C5	4.58	1.48	1.40
12	B	801	CLA	C1D-ND	4.57	1.43	1.37
12	B	810	CLA	CHC-C1C	4.55	1.46	1.35
12	B	801	CLA	O2D-CGD	4.54	1.44	1.33
12	B	820	CLA	O2A-CGA	4.53	1.46	1.33
12	A	807	CLA	CHD-C1D	4.53	1.47	1.38
12	B	832	CLA	CHD-C1D	4.53	1.47	1.38
12	B	812	CLA	O2A-CGA	4.51	1.45	1.30
12	J	101	CLA	O2A-CGA	4.51	1.45	1.30
11	A	801	CL0	C1D-ND	4.51	1.43	1.37
12	B	815	CLA	O2A-CGA	4.51	1.45	1.30
12	F	203	CLA	CHD-C1D	4.50	1.47	1.38
12	A	819	CLA	CHD-C1D	4.49	1.47	1.38
12	B	823	CLA	CHD-C1D	4.49	1.47	1.38
12	A	815	CLA	O2A-CGA	4.49	1.45	1.30
12	A	804	CLA	O2A-CGA	4.49	1.45	1.30
12	B	822	CLA	C1D-ND	4.49	1.43	1.37
12	B	825	CLA	O2D-CGD	4.48	1.44	1.33
12	A	814	CLA	O2A-CGA	4.48	1.45	1.30
12	B	827	CLA	O2A-CGA	4.47	1.45	1.30
12	A	813	CLA	O2A-CGA	4.47	1.45	1.30
12	A	817	CLA	O2A-CGA	4.47	1.46	1.33
12	A	820	CLA	CHD-C1D	4.46	1.47	1.38
12	F	203	CLA	O2A-CGA	4.46	1.45	1.30
12	B	813	CLA	CHD-C1D	4.46	1.47	1.38
12	A	836	CLA	O2A-CGA	4.45	1.45	1.30
12	A	824	CLA	CHD-C1D	4.45	1.47	1.38
12	A	803	CLA	O2A-CGA	4.44	1.45	1.30
12	B	832	CLA	CHC-C1C	4.44	1.46	1.35
12	A	810	CLA	O2A-CGA	4.44	1.45	1.30
12	A	812	CLA	CHD-C1D	4.43	1.47	1.38
12	A	843	CLA	O2A-CGA	4.42	1.46	1.33
12	A	802	CLA	O2A-CGA	4.42	1.45	1.30
12	B	831	CLA	CHD-C1D	4.42	1.47	1.38
12	B	815	CLA	CHD-C1D	4.42	1.47	1.38
12	A	809	CLA	O2A-CGA	4.41	1.45	1.30
12	A	816	CLA	CHD-C1D	4.40	1.46	1.38
12	A	823	CLA	CHD-C1D	4.40	1.46	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	812	CLA	CHD-C1D	4.40	1.46	1.38
12	B	810	CLA	CHD-C1D	4.40	1.46	1.38
12	A	834	CLA	CHD-C1D	4.39	1.46	1.38
12	B	819	CLA	CHD-C1D	4.38	1.46	1.38
12	B	801	CLA	CHD-C1D	4.38	1.46	1.38
12	B	822	CLA	O2A-CGA	4.38	1.46	1.33
12	B	826	CLA	CHD-C1D	4.38	1.46	1.38
12	B	829	CLA	O2A-CGA	4.37	1.46	1.33
12	B	827	CLA	CHD-C1D	4.37	1.46	1.38
12	A	836	CLA	CHD-C1D	4.37	1.46	1.38
12	B	811	CLA	CHD-C1D	4.37	1.46	1.38
12	A	832	CLA	O2A-CGA	4.36	1.46	1.33
12	B	804	CLA	C1D-ND	4.36	1.43	1.37
12	A	810	CLA	CHD-C1D	4.36	1.46	1.38
12	L	202	CLA	CHD-C1D	4.36	1.46	1.38
12	B	832	CLA	O2A-CGA	4.35	1.46	1.33
12	B	821	CLA	O2A-CGA	4.34	1.46	1.33
12	B	816	CLA	CHD-C1D	4.34	1.46	1.38
12	A	826	CLA	CHD-C1D	4.34	1.46	1.38
12	B	824	CLA	O2A-CGA	4.34	1.46	1.33
12	A	837	CLA	O2A-CGA	4.34	1.46	1.33
12	A	843	CLA	CHD-C1D	4.33	1.46	1.38
12	A	840	CLA	O2A-CGA	4.33	1.46	1.33
12	A	815	CLA	CHD-C1D	4.32	1.46	1.38
12	A	829	CLA	C1D-ND	4.32	1.43	1.37
12	A	825	CLA	C1D-ND	4.32	1.43	1.37
12	A	835	CLA	O2A-CGA	4.32	1.46	1.33
12	A	805	CLA	O2A-CGA	4.31	1.45	1.33
12	A	816	CLA	O2A-CGA	4.31	1.45	1.33
12	A	838	CLA	O2A-CGA	4.30	1.45	1.33
12	A	841	CLA	CHD-C1D	4.30	1.46	1.38
12	B	805	CLA	CHD-C1D	4.29	1.46	1.38
12	A	841	CLA	O2A-CGA	4.29	1.45	1.33
12	B	816	CLA	O2A-CGA	4.28	1.45	1.33
12	B	805	CLA	O2A-CGA	4.28	1.45	1.33
12	A	818	CLA	O2A-CGA	4.28	1.45	1.33
12	A	842	CLA	O2A-CGA	4.28	1.45	1.33
12	B	818	CLA	O2A-CGA	4.28	1.45	1.33
12	A	839	CLA	O2A-CGA	4.27	1.45	1.33
12	A	814	CLA	CHD-C1D	4.27	1.46	1.38
12	A	812	CLA	O2A-CGA	4.27	1.45	1.33
12	A	837	CLA	CHD-C1D	4.27	1.46	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	830	CLA	O2A-CGA	4.27	1.45	1.33
12	B	817	CLA	CHD-C1D	4.26	1.46	1.38
12	A	831	CLA	O2A-CGA	4.26	1.45	1.33
12	B	818	CLA	CHD-C1D	4.26	1.46	1.38
12	A	838	CLA	CHD-C1D	4.26	1.46	1.38
12	A	813	CLA	CHD-C1D	4.26	1.46	1.38
12	A	803	CLA	CHD-C1D	4.26	1.46	1.38
12	A	820	CLA	O2A-CGA	4.26	1.45	1.33
12	A	818	CLA	CHD-C1D	4.26	1.46	1.38
12	A	821	CLA	O2A-CGA	4.26	1.45	1.33
12	B	826	CLA	O2A-CGA	4.26	1.45	1.33
12	A	832	CLA	CHD-C1D	4.25	1.46	1.38
12	B	803	CLA	O2A-CGA	4.25	1.45	1.33
12	A	834	CLA	O2A-CGA	4.25	1.45	1.33
12	L	203	CLA	O2A-CGA	4.25	1.45	1.33
12	L	204	CLA	O2A-CGA	4.25	1.45	1.33
12	B	814	CLA	O2A-CGA	4.24	1.45	1.33
12	A	811	CLA	CHD-C1D	4.23	1.46	1.38
12	A	831	CLA	CHD-C1D	4.23	1.46	1.38
12	A	823	CLA	O2A-CGA	4.22	1.45	1.33
12	B	802	CLA	CHD-C1D	4.21	1.46	1.38
12	J	101	CLA	CHD-C1D	4.21	1.46	1.38
12	A	833	CLA	CHD-C1D	4.21	1.46	1.38
12	A	811	CLA	O2A-CGA	4.21	1.45	1.33
12	B	823	CLA	O2A-CGA	4.21	1.45	1.33
12	A	805	CLA	CHD-C1D	4.20	1.46	1.38
12	A	808	CLA	CHD-C1D	4.20	1.46	1.38
12	B	817	CLA	O2A-CGA	4.20	1.45	1.33
12	A	829	CLA	O2A-CGA	4.20	1.45	1.33
12	A	835	CLA	CHD-C1D	4.19	1.46	1.38
12	B	807	CLA	O2A-CGA	4.19	1.45	1.33
12	A	830	CLA	CHD-C1D	4.19	1.46	1.38
12	B	831	CLA	O2A-CGA	4.19	1.45	1.33
12	A	802	CLA	C1D-ND	4.19	1.42	1.37
12	B	801	CLA	O2A-CGA	4.19	1.45	1.33
12	B	809	CLA	O2A-CGA	4.18	1.45	1.33
12	A	822	CLA	CHD-C1D	4.18	1.46	1.38
12	L	204	CLA	CHD-C1D	4.18	1.46	1.38
12	A	825	CLA	O2A-CGA	4.18	1.45	1.33
12	B	825	CLA	O2A-CGA	4.17	1.45	1.33
12	A	807	CLA	O2A-CGA	4.17	1.45	1.33
12	A	817	CLA	CHD-C1D	4.17	1.46	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	821	CLA	CHD-C1D	4.17	1.46	1.38
12	B	819	CLA	CHD-C4C	4.17	1.48	1.39
12	A	840	CLA	CHD-C1D	4.17	1.46	1.38
12	A	819	CLA	O2A-CGA	4.15	1.45	1.33
12	A	854	CLA	C3D-C2D	4.15	1.50	1.39
12	A	809	CLA	CHD-C1D	4.15	1.46	1.38
12	A	808	CLA	O2A-CGA	4.15	1.45	1.33
12	A	854	CLA	O2A-CGA	4.15	1.45	1.33
12	A	826	CLA	O2A-CGA	4.14	1.45	1.33
12	B	806	CLA	O2A-CGA	4.14	1.45	1.33
12	A	827	CLA	O2A-CGA	4.14	1.45	1.33
12	A	824	CLA	CHD-C4C	4.12	1.48	1.39
12	A	828	CLA	CHD-C1D	4.12	1.46	1.38
12	A	842	CLA	CHD-C1D	4.12	1.46	1.38
12	A	824	CLA	O2A-CGA	4.12	1.45	1.33
12	B	814	CLA	CHD-C1D	4.12	1.46	1.38
12	A	830	CLA	O2A-CGA	4.11	1.45	1.33
12	B	824	CLA	CHD-C1D	4.11	1.46	1.38
12	F	203	CLA	CHD-C4C	4.11	1.48	1.39
11	A	801	CL0	O2A-CGA	4.10	1.45	1.33
12	B	802	CLA	O2A-CGA	4.10	1.45	1.33
12	B	823	CLA	CHD-C4C	4.10	1.48	1.39
12	A	828	CLA	O2A-CGA	4.09	1.45	1.33
12	B	807	CLA	CHD-C1D	4.09	1.46	1.38
12	A	826	CLA	CHD-C4C	4.09	1.48	1.39
12	B	828	CLA	CHD-C1D	4.09	1.46	1.38
12	B	806	CLA	CHD-C1D	4.09	1.46	1.38
12	B	828	CLA	O2A-CGA	4.08	1.46	1.33
12	A	840	CLA	C3D-C2D	4.08	1.50	1.39
12	B	822	CLA	CHD-C1D	4.07	1.46	1.38
12	B	808	CLA	O2A-CGA	4.07	1.45	1.33
12	B	803	CLA	CHD-C1D	4.07	1.46	1.38
12	B	813	CLA	O2A-CGA	4.06	1.45	1.33
12	B	824	CLA	CHD-C4C	4.06	1.48	1.39
12	L	202	CLA	O2A-CGA	4.06	1.45	1.33
12	A	820	CLA	CHD-C4C	4.06	1.48	1.39
12	A	822	CLA	O2A-CGA	4.05	1.45	1.33
12	A	804	CLA	CHD-C1D	4.05	1.46	1.38
12	A	806	CLA	CHD-C1D	4.05	1.46	1.38
12	A	807	CLA	CHD-C4C	4.04	1.48	1.39
12	B	811	CLA	O2A-CGA	4.04	1.45	1.33
12	A	841	CLA	CHD-C4C	4.04	1.48	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	808	CLA	CHD-C1D	4.03	1.46	1.38
12	B	819	CLA	O2A-CGA	4.03	1.45	1.33
12	B	830	CLA	CHD-C1D	4.02	1.46	1.38
12	B	810	CLA	O2A-CGA	4.02	1.45	1.33
12	A	812	CLA	CHD-C4C	4.02	1.48	1.39
12	A	839	CLA	CHD-C1D	4.02	1.46	1.38
12	A	815	CLA	CHD-C4C	4.01	1.48	1.39
12	A	837	CLA	CHD-C4C	4.01	1.48	1.39
12	A	819	CLA	CHD-C4C	4.01	1.48	1.39
11	A	801	CL0	CHD-C1D	4.01	1.46	1.38
12	A	816	CLA	CHD-C4C	4.01	1.48	1.39
12	L	204	CLA	CHD-C4C	4.00	1.48	1.39
12	B	830	CLA	CHD-C4C	4.00	1.48	1.39
12	A	854	CLA	C1D-ND	4.00	1.42	1.37
12	B	813	CLA	CHD-C4C	3.99	1.48	1.39
12	B	816	CLA	CHD-C4C	3.99	1.48	1.39
12	A	836	CLA	CHD-C4C	3.98	1.48	1.39
12	B	831	CLA	CHD-C4C	3.98	1.48	1.39
12	B	827	CLA	CHD-C4C	3.98	1.48	1.39
12	A	806	CLA	O2A-CGA	3.97	1.44	1.33
12	B	829	CLA	CHD-C4C	3.96	1.48	1.39
12	B	811	CLA	CHD-C4C	3.96	1.48	1.39
12	B	826	CLA	CHD-C4C	3.96	1.48	1.39
12	A	833	CLA	O2A-CGA	3.96	1.44	1.33
12	B	832	CLA	CHD-C4C	3.96	1.48	1.39
12	A	805	CLA	CHD-C4C	3.95	1.48	1.39
12	B	815	CLA	CHD-C4C	3.95	1.48	1.39
12	B	812	CLA	CHD-C4C	3.95	1.48	1.39
12	B	820	CLA	CHD-C1D	3.95	1.46	1.38
12	A	821	CLA	CHD-C4C	3.95	1.48	1.39
12	B	804	CLA	O2A-CGA	3.95	1.44	1.33
12	L	202	CLA	CHD-C4C	3.94	1.48	1.39
12	A	829	CLA	CHD-C1D	3.94	1.46	1.38
12	A	843	CLA	CHD-C4C	3.94	1.48	1.39
12	A	827	CLA	CHD-C1D	3.93	1.46	1.38
12	A	833	CLA	CHD-C4C	3.92	1.48	1.39
12	A	813	CLA	CHD-C4C	3.92	1.48	1.39
12	B	829	CLA	CHD-C1D	3.92	1.46	1.38
12	A	838	CLA	CHD-C4C	3.92	1.48	1.39
12	B	810	CLA	CHD-C4C	3.92	1.48	1.39
12	A	834	CLA	CHD-C4C	3.92	1.48	1.39
12	A	832	CLA	CHD-C4C	3.91	1.48	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L	203	CLA	CHD-C1D	3.91	1.46	1.38
12	A	823	CLA	CHD-C4C	3.91	1.48	1.39
12	B	825	CLA	CHD-C4C	3.91	1.48	1.39
12	A	808	CLA	CHD-C4C	3.91	1.48	1.39
12	A	814	CLA	CHD-C4C	3.90	1.48	1.39
12	B	817	CLA	CHD-C4C	3.90	1.48	1.39
12	A	810	CLA	CHD-C4C	3.90	1.48	1.39
12	A	804	CLA	CHD-C4C	3.90	1.48	1.39
12	B	806	CLA	CHD-C4C	3.89	1.48	1.39
12	J	101	CLA	CHD-C4C	3.89	1.48	1.39
12	A	831	CLA	CHD-C4C	3.89	1.48	1.39
12	B	814	CLA	CHD-C4C	3.89	1.48	1.39
12	A	817	CLA	CHD-C4C	3.88	1.48	1.39
12	A	811	CLA	CHD-C4C	3.87	1.48	1.39
12	A	840	CLA	CHD-C4C	3.87	1.48	1.39
12	B	802	CLA	C3D-C2D	3.87	1.49	1.39
12	A	830	CLA	CHD-C4C	3.87	1.48	1.39
12	A	842	CLA	CHD-C4C	3.87	1.48	1.39
12	B	818	CLA	CHD-C4C	3.87	1.48	1.39
12	B	805	CLA	CHD-C4C	3.85	1.48	1.39
12	A	808	CLA	C3D-C2D	3.85	1.49	1.39
12	L	203	CLA	CHD-C4C	3.85	1.48	1.39
12	A	835	CLA	CHD-C4C	3.85	1.48	1.39
12	A	822	CLA	CHD-C4C	3.85	1.48	1.39
12	A	828	CLA	CHD-C4C	3.85	1.48	1.39
12	B	807	CLA	CHD-C4C	3.84	1.48	1.39
12	B	810	CLA	C3D-C2D	3.83	1.49	1.39
12	A	803	CLA	CHD-C4C	3.83	1.48	1.39
12	A	802	CLA	C3D-C2D	3.83	1.49	1.39
12	A	830	CLA	C3D-C2D	3.82	1.49	1.39
12	F	203	CLA	C3D-C2D	3.82	1.49	1.39
12	A	818	CLA	CHD-C4C	3.81	1.47	1.39
12	B	801	CLA	CHD-C4C	3.81	1.47	1.39
12	A	802	CLA	CHD-C4C	3.80	1.47	1.39
12	A	807	CLA	C3D-C2D	3.80	1.49	1.39
12	B	828	CLA	CHD-C4C	3.80	1.47	1.39
12	B	821	CLA	CHD-C1D	3.78	1.45	1.38
12	B	801	CLA	C3D-C2D	3.78	1.49	1.39
12	B	827	CLA	OBD-CAD	3.78	1.29	1.22
12	B	808	CLA	CHD-C4C	3.78	1.47	1.39
12	A	841	CLA	C3D-C2D	3.77	1.49	1.39
12	A	806	CLA	CHD-C4C	3.76	1.47	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	802	CLA	CHD-C4C	3.76	1.47	1.39
12	A	834	CLA	C3D-C2D	3.75	1.49	1.39
12	B	820	CLA	CHD-C4C	3.75	1.47	1.39
12	A	822	CLA	C3D-C2D	3.75	1.49	1.39
12	A	809	CLA	CHD-C4C	3.75	1.47	1.39
12	A	815	CLA	C3D-C2D	3.75	1.49	1.39
12	A	819	CLA	C3D-C2D	3.75	1.49	1.39
12	A	814	CLA	OBD-CAD	3.74	1.28	1.22
12	A	835	CLA	C3D-C2D	3.74	1.49	1.39
12	B	821	CLA	CHD-C4C	3.73	1.47	1.39
12	A	804	CLA	C3D-C2D	3.73	1.49	1.39
12	A	838	CLA	C3D-C2D	3.73	1.49	1.39
12	A	814	CLA	C3D-C2D	3.73	1.49	1.39
12	A	836	CLA	C3D-C2D	3.73	1.49	1.39
12	A	816	CLA	OBD-CAD	3.73	1.28	1.22
12	F	203	CLA	OBD-CAD	3.73	1.28	1.22
12	B	809	CLA	CHD-C1D	3.73	1.45	1.38
12	A	843	CLA	C3D-C2D	3.72	1.49	1.39
12	A	839	CLA	CHD-C4C	3.72	1.47	1.39
12	B	832	CLA	C3D-C2D	3.72	1.49	1.39
12	A	824	CLA	C3D-C2D	3.72	1.49	1.39
12	B	815	CLA	C3D-C2D	3.72	1.49	1.39
12	A	843	CLA	OBD-CAD	3.72	1.28	1.22
12	B	805	CLA	C3D-C2D	3.72	1.49	1.39
12	B	804	CLA	C3D-C2D	3.72	1.49	1.39
12	B	827	CLA	C3D-C2D	3.71	1.49	1.39
12	A	854	CLA	CHD-C1D	3.71	1.45	1.38
12	B	822	CLA	CHD-C4C	3.71	1.47	1.39
12	B	817	CLA	C3D-C2D	3.71	1.49	1.39
12	A	836	CLA	OBD-CAD	3.71	1.28	1.22
12	A	810	CLA	OBD-CAD	3.71	1.28	1.22
12	A	825	CLA	CHD-C1D	3.71	1.45	1.38
12	B	813	CLA	C3D-C2D	3.70	1.49	1.39
12	A	807	CLA	OBD-CAD	3.70	1.28	1.22
12	B	808	CLA	C3D-C2D	3.70	1.49	1.39
12	L	203	CLA	C3D-C2D	3.69	1.49	1.39
12	B	821	CLA	C3D-C2D	3.69	1.49	1.39
12	A	804	CLA	OBD-CAD	3.69	1.28	1.22
12	A	810	CLA	C3D-C2D	3.69	1.49	1.39
12	A	811	CLA	C3D-C2D	3.68	1.49	1.39
12	A	821	CLA	C3D-C2D	3.68	1.49	1.39
12	A	834	CLA	OBD-CAD	3.68	1.28	1.22

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J	101	CLA	C3D-C2D	3.68	1.49	1.39
12	B	826	CLA	OBD-CAD	3.68	1.28	1.22
12	B	824	CLA	OBD-CAD	3.68	1.28	1.22
12	A	809	CLA	OBD-CAD	3.68	1.28	1.22
12	A	831	CLA	C3D-C2D	3.68	1.49	1.39
12	B	815	CLA	OBD-CAD	3.68	1.28	1.22
12	B	818	CLA	C3D-C2D	3.68	1.49	1.39
12	B	816	CLA	C3D-C2D	3.67	1.49	1.39
12	A	812	CLA	C3D-C2D	3.67	1.49	1.39
12	A	816	CLA	C3D-C2D	3.67	1.49	1.39
12	A	813	CLA	C3D-C2D	3.67	1.49	1.39
12	J	101	CLA	OBD-CAD	3.67	1.28	1.22
12	A	815	CLA	OBD-CAD	3.67	1.28	1.22
12	B	812	CLA	C3D-C2D	3.67	1.49	1.39
12	B	805	CLA	OBD-CAD	3.66	1.28	1.22
12	A	832	CLA	C3D-C2D	3.66	1.49	1.39
12	L	202	CLA	C3D-C2D	3.66	1.49	1.39
12	A	802	CLA	OBD-CAD	3.66	1.28	1.22
12	A	827	CLA	CHD-C4C	3.66	1.47	1.39
12	A	829	CLA	CHD-C4C	3.66	1.47	1.39
12	A	841	CLA	OBD-CAD	3.66	1.28	1.22
12	A	833	CLA	OBD-CAD	3.66	1.28	1.22
12	B	821	CLA	OBD-CAD	3.66	1.28	1.22
12	A	820	CLA	C3D-C2D	3.66	1.49	1.39
12	A	813	CLA	OBD-CAD	3.65	1.28	1.22
12	A	823	CLA	C3D-C2D	3.65	1.49	1.39
12	B	816	CLA	OBD-CAD	3.65	1.28	1.22
12	B	804	CLA	OBD-CAD	3.65	1.28	1.22
12	B	826	CLA	C3D-C2D	3.64	1.49	1.39
12	A	842	CLA	OBD-CAD	3.64	1.28	1.22
12	L	204	CLA	C3D-C2D	3.63	1.49	1.39
12	A	829	CLA	OBD-CAD	3.63	1.28	1.22
12	A	823	CLA	OBD-CAD	3.63	1.28	1.22
12	A	802	CLA	CHD-C1D	3.62	1.45	1.38
12	A	825	CLA	CHD-C4C	3.62	1.47	1.39
12	B	824	CLA	C3D-C2D	3.62	1.49	1.39
12	B	822	CLA	OBD-CAD	3.62	1.28	1.22
12	B	818	CLA	OBD-CAD	3.62	1.28	1.22
12	B	814	CLA	OBD-CAD	3.62	1.28	1.22
11	A	801	CL0	C3D-C2D	3.61	1.49	1.39
12	B	806	CLA	OBD-CAD	3.61	1.28	1.22
12	B	823	CLA	OBD-CAD	3.61	1.28	1.22

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	840	CLA	OBD-CAD	3.61	1.28	1.22
11	A	801	CL0	CHD-C4C	3.61	1.47	1.39
12	A	835	CLA	OBD-CAD	3.61	1.28	1.22
12	B	812	CLA	OBD-CAD	3.61	1.28	1.22
12	A	828	CLA	C3D-C2D	3.61	1.49	1.39
12	L	202	CLA	OBD-CAD	3.61	1.28	1.22
12	A	829	CLA	C3D-C2D	3.60	1.48	1.39
12	A	842	CLA	C3D-C2D	3.60	1.48	1.39
12	B	806	CLA	C3D-C2D	3.59	1.48	1.39
12	L	203	CLA	OBD-CAD	3.59	1.28	1.22
12	A	818	CLA	OBD-CAD	3.59	1.28	1.22
12	B	819	CLA	OBD-CAD	3.59	1.28	1.22
12	B	828	CLA	C3D-C2D	3.59	1.48	1.39
12	B	803	CLA	CHD-C4C	3.58	1.47	1.39
12	B	809	CLA	CHD-C4C	3.58	1.47	1.39
12	B	832	CLA	OBD-CAD	3.58	1.28	1.22
12	A	819	CLA	OBD-CAD	3.58	1.28	1.22
12	L	204	CLA	OBD-CAD	3.58	1.28	1.22
12	A	825	CLA	OBD-CAD	3.57	1.28	1.22
12	A	825	CLA	C3D-C2D	3.57	1.48	1.39
12	A	818	CLA	C3D-C2D	3.57	1.48	1.39
12	A	822	CLA	OBD-CAD	3.57	1.28	1.22
12	A	820	CLA	OBD-CAD	3.57	1.28	1.22
12	A	817	CLA	C3D-C2D	3.56	1.48	1.39
12	A	812	CLA	OBD-CAD	3.56	1.28	1.22
12	B	822	CLA	C3D-C2D	3.56	1.48	1.39
12	B	831	CLA	OBD-CAD	3.56	1.28	1.22
12	B	803	CLA	OBD-CAD	3.56	1.28	1.22
12	B	830	CLA	C3D-C2D	3.56	1.48	1.39
12	A	824	CLA	OBD-CAD	3.56	1.28	1.22
12	B	803	CLA	C3D-C2D	3.55	1.48	1.39
12	A	832	CLA	OBD-CAD	3.55	1.28	1.22
12	B	807	CLA	C3D-C2D	3.55	1.48	1.39
12	A	828	CLA	OBD-CAD	3.54	1.28	1.22
12	B	831	CLA	C3D-C2D	3.53	1.48	1.39
12	A	854	CLA	CHD-C4C	3.53	1.47	1.39
12	B	825	CLA	OBD-CAD	3.53	1.28	1.22
12	A	833	CLA	C3D-C2D	3.53	1.48	1.39
12	B	813	CLA	OBD-CAD	3.53	1.28	1.22
11	A	801	CL0	OBD-CAD	3.52	1.28	1.22
12	A	827	CLA	C3D-C2D	3.52	1.48	1.39
12	A	803	CLA	C3D-C2D	3.52	1.48	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	829	CLA	C3D-C2D	3.51	1.48	1.39
12	A	805	CLA	OBD-CAD	3.51	1.28	1.22
12	B	804	CLA	CHD-C4C	3.51	1.47	1.39
12	B	819	CLA	C3D-C2D	3.51	1.48	1.39
12	B	814	CLA	C3D-C2D	3.50	1.48	1.39
12	B	810	CLA	OBD-CAD	3.49	1.28	1.22
12	B	825	CLA	CHD-C1D	3.48	1.45	1.38
12	A	805	CLA	C3D-C2D	3.47	1.48	1.39
12	A	809	CLA	C3D-C2D	3.46	1.48	1.39
12	A	811	CLA	OBD-CAD	3.46	1.28	1.22
12	B	802	CLA	OBD-CAD	3.45	1.28	1.22
12	A	839	CLA	C3D-C2D	3.45	1.48	1.39
12	B	820	CLA	C3D-C2D	3.45	1.48	1.39
12	A	817	CLA	OBD-CAD	3.45	1.28	1.22
12	A	826	CLA	C3D-C2D	3.44	1.48	1.39
12	A	826	CLA	OBD-CAD	3.44	1.28	1.22
12	A	803	CLA	OBD-CAD	3.43	1.28	1.22
12	A	837	CLA	C3D-C2D	3.42	1.48	1.39
12	A	831	CLA	OBD-CAD	3.41	1.28	1.22
12	A	806	CLA	C3D-C2D	3.41	1.48	1.39
12	A	802	CLA	C1B-NB	-3.40	1.32	1.35
12	B	825	CLA	C3D-C2D	3.40	1.48	1.39
12	B	811	CLA	OBD-CAD	3.38	1.28	1.22
12	B	809	CLA	OBD-CAD	3.36	1.28	1.22
12	B	804	CLA	CHD-C1D	3.36	1.44	1.38
12	B	817	CLA	OBD-CAD	3.33	1.28	1.22
12	A	838	CLA	OBD-CAD	3.33	1.28	1.22
12	A	821	CLA	OBD-CAD	3.33	1.28	1.22
12	A	830	CLA	OBD-CAD	3.32	1.28	1.22
12	B	828	CLA	OBD-CAD	3.31	1.28	1.22
12	B	809	CLA	C3D-C2D	3.30	1.48	1.39
12	B	811	CLA	C3D-C2D	3.28	1.48	1.39
12	A	808	CLA	OBD-CAD	3.28	1.28	1.22
12	B	823	CLA	C1B-NB	-3.28	1.32	1.35
12	A	837	CLA	OBD-CAD	3.27	1.28	1.22
12	A	806	CLA	OBD-CAD	3.26	1.28	1.22
12	B	801	CLA	OBD-CAD	3.22	1.28	1.22
12	B	807	CLA	OBD-CAD	3.21	1.28	1.22
12	B	808	CLA	OBD-CAD	3.19	1.28	1.22
12	B	810	CLA	C1B-NB	-3.18	1.32	1.35
15	M	101	BCR	C30-C25	-3.18	1.49	1.53
15	B	836	BCR	C30-C25	-3.15	1.49	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	A	846	BCR	C1-C6	-3.14	1.49	1.53
12	A	839	CLA	OBD-CAD	3.12	1.27	1.22
15	L	205	BCR	C30-C25	-3.07	1.49	1.53
15	B	834	BCR	C30-C25	-3.07	1.49	1.53
12	A	827	CLA	OBD-CAD	3.06	1.27	1.22
15	I	101	BCR	C1-C6	-3.01	1.49	1.53
12	B	820	CLA	OBD-CAD	2.98	1.27	1.22
15	J	102	BCR	C1-C6	-2.96	1.49	1.53
12	B	829	CLA	OBD-CAD	2.95	1.27	1.22
15	A	847	BCR	C1-C6	-2.95	1.49	1.53
15	A	850	BCR	C1-C6	-2.94	1.49	1.53
12	B	823	CLA	C3D-C4D	-2.91	1.37	1.44
15	B	836	BCR	C1-C6	-2.90	1.49	1.53
15	F	201	BCR	C1-C6	-2.89	1.49	1.53
15	L	205	BCR	C1-C6	-2.88	1.49	1.53
12	B	806	CLA	C4C-C3C	2.87	1.50	1.45
15	L	201	BCR	C1-C6	-2.86	1.49	1.53
15	B	834	BCR	C1-C6	-2.85	1.49	1.53
15	J	103	BCR	C30-C25	-2.84	1.49	1.53
15	J	104	BCR	C30-C25	-2.84	1.49	1.53
15	A	849	BCR	C1-C6	-2.83	1.49	1.53
12	B	823	CLA	C3D-C2D	2.82	1.46	1.39
12	A	830	CLA	C1B-NB	-2.81	1.32	1.35
12	B	818	CLA	C1B-NB	-2.81	1.32	1.35
15	B	835	BCR	C30-C25	-2.80	1.49	1.53
15	M	101	BCR	C1-C6	-2.78	1.50	1.53
12	A	854	CLA	C1B-NB	-2.75	1.32	1.35
12	A	820	CLA	C4D-CHA	2.74	1.48	1.38
12	A	840	CLA	C4D-CHA	2.73	1.48	1.38
12	A	843	CLA	C4D-CHA	2.72	1.48	1.38
12	B	805	CLA	C4D-CHA	2.72	1.48	1.38
12	A	808	CLA	C4D-CHA	2.72	1.48	1.38
12	A	819	CLA	C4D-CHA	2.71	1.48	1.38
12	B	820	CLA	C4D-CHA	2.71	1.48	1.38
12	B	832	CLA	C4D-CHA	2.70	1.48	1.38
12	B	810	CLA	C4D-CHA	2.69	1.48	1.38
12	A	836	CLA	C4D-CHA	2.69	1.48	1.38
12	A	810	CLA	C4D-CHA	2.69	1.48	1.38
12	A	816	CLA	C4D-CHA	2.68	1.47	1.38
12	L	202	CLA	C4D-CHA	2.68	1.47	1.38
12	J	101	CLA	C4D-CHA	2.68	1.47	1.38
12	A	854	CLA	OBD-CAD	2.68	1.27	1.22

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	814	CLA	C4D-CHA	2.67	1.47	1.38
12	B	832	CLA	C1B-NB	-2.67	1.32	1.35
12	A	823	CLA	C4D-CHA	2.67	1.47	1.38
12	B	815	CLA	C4D-CHA	2.66	1.47	1.38
15	F	202	BCR	C1-C6	-2.66	1.50	1.53
12	A	827	CLA	C4D-CHA	2.66	1.47	1.38
12	B	823	CLA	C4C-C3C	2.66	1.49	1.45
12	A	830	CLA	C4D-CHA	2.65	1.47	1.38
12	A	828	CLA	C4D-CHA	2.65	1.47	1.38
12	A	837	CLA	C3D-C4D	-2.65	1.38	1.44
12	B	819	CLA	C1B-NB	-2.65	1.32	1.35
12	B	827	CLA	C4D-CHA	2.65	1.47	1.38
12	A	813	CLA	C4D-CHA	2.65	1.47	1.38
12	B	804	CLA	C1B-NB	-2.65	1.32	1.35
12	B	801	CLA	C1B-NB	-2.64	1.32	1.35
12	B	808	CLA	C4D-CHA	2.64	1.47	1.38
12	A	804	CLA	C4D-CHA	2.64	1.47	1.38
12	B	817	CLA	C4D-CHA	2.64	1.47	1.38
12	F	203	CLA	C4D-CHA	2.64	1.47	1.38
12	B	818	CLA	C4D-CHA	2.64	1.47	1.38
12	A	807	CLA	C4D-CHA	2.63	1.47	1.38
12	A	824	CLA	C4D-CHA	2.63	1.47	1.38
12	A	815	CLA	C4D-CHA	2.63	1.47	1.38
12	B	806	CLA	C4D-CHA	2.63	1.47	1.38
12	A	834	CLA	C4D-CHA	2.63	1.47	1.38
12	B	802	CLA	C4D-CHA	2.62	1.47	1.38
12	A	812	CLA	C4D-CHA	2.62	1.47	1.38
12	B	804	CLA	C4D-CHA	2.62	1.47	1.38
12	A	831	CLA	C4D-CHA	2.61	1.47	1.38
12	B	816	CLA	C4D-CHA	2.61	1.47	1.38
12	F	203	CLA	C4C-C3C	2.61	1.49	1.45
12	A	841	CLA	C4D-CHA	2.61	1.47	1.38
12	B	807	CLA	C4D-CHA	2.61	1.47	1.38
12	A	818	CLA	C4D-CHA	2.60	1.47	1.38
12	A	842	CLA	C4D-CHA	2.60	1.47	1.38
12	B	813	CLA	C4D-CHA	2.60	1.47	1.38
12	B	829	CLA	C4D-CHA	2.59	1.47	1.38
12	A	822	CLA	C4D-CHA	2.59	1.47	1.38
12	B	826	CLA	C4D-CHA	2.59	1.47	1.38
12	A	828	CLA	C1B-NB	-2.59	1.32	1.35
12	A	838	CLA	C4D-CHA	2.58	1.47	1.38
12	B	828	CLA	C4D-CHA	2.58	1.47	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	812	CLA	C4D-CHA	2.58	1.47	1.38
12	A	835	CLA	C4D-CHA	2.58	1.47	1.38
12	A	819	CLA	C1B-NB	-2.58	1.32	1.35
12	A	806	CLA	C4D-CHA	2.58	1.47	1.38
12	A	823	CLA	C4C-C3C	2.58	1.49	1.45
11	A	801	CL0	C4D-CHA	2.57	1.47	1.38
12	A	829	CLA	C1B-NB	-2.57	1.32	1.35
12	A	803	CLA	C4D-CHA	2.57	1.47	1.38
12	B	830	CLA	C4D-CHA	2.57	1.47	1.38
15	B	835	BCR	C1-C6	-2.57	1.50	1.53
12	A	811	CLA	C4D-CHA	2.56	1.47	1.38
12	A	805	CLA	C4D-CHA	2.56	1.47	1.38
12	B	830	CLA	OBD-CAD	2.56	1.26	1.22
12	B	811	CLA	C4D-CHA	2.56	1.47	1.38
12	B	821	CLA	C4D-CHA	2.56	1.47	1.38
12	A	829	CLA	C4D-CHA	2.55	1.47	1.38
12	B	811	CLA	C4C-C3C	2.55	1.49	1.45
12	A	839	CLA	C4D-CHA	2.55	1.47	1.38
12	B	824	CLA	C4D-CHA	2.55	1.47	1.38
12	B	831	CLA	C4D-CHA	2.55	1.47	1.38
12	A	809	CLA	C4D-CHA	2.55	1.47	1.38
15	L	206	BCR	C1-C6	-2.55	1.50	1.53
12	A	826	CLA	C3D-C4D	-2.55	1.38	1.44
12	B	822	CLA	C4D-CHA	2.55	1.47	1.38
12	B	832	CLA	C4C-C3C	2.54	1.49	1.45
12	B	819	CLA	C4D-CHA	2.54	1.47	1.38
12	B	820	CLA	C4B-CHC	2.53	1.48	1.41
11	A	801	CL0	C1B-NB	-2.53	1.32	1.35
12	A	804	CLA	C1C-C2C	2.53	1.49	1.44
12	A	854	CLA	C4D-CHA	2.53	1.47	1.38
12	A	832	CLA	C4D-CHA	2.53	1.47	1.38
12	A	802	CLA	C4D-CHA	2.53	1.47	1.38
12	A	833	CLA	C4D-CHA	2.53	1.47	1.38
12	A	821	CLA	C4D-CHA	2.53	1.47	1.38
12	A	817	CLA	C4D-CHA	2.53	1.47	1.38
12	A	825	CLA	C4D-CHA	2.52	1.47	1.38
12	A	804	CLA	C4B-CHC	2.52	1.48	1.41
15	A	850	BCR	C30-C25	-2.52	1.50	1.53
12	A	818	CLA	C1B-NB	-2.52	1.33	1.35
12	B	814	CLA	C4D-CHA	2.52	1.47	1.38
12	A	826	CLA	C4D-CHA	2.51	1.47	1.38
12	B	807	CLA	C1B-NB	-2.51	1.33	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	825	CLA	C4B-CHC	2.51	1.48	1.41
15	J	103	BCR	C1-C6	-2.50	1.50	1.53
12	A	806	CLA	C3D-C4D	-2.50	1.38	1.44
12	L	204	CLA	C4D-CHA	2.50	1.47	1.38
12	A	837	CLA	C4D-CHA	2.50	1.47	1.38
12	B	831	CLA	C3D-C4D	-2.50	1.38	1.44
12	A	824	CLA	C4C-C3C	2.49	1.49	1.45
12	B	809	CLA	C4D-CHA	2.49	1.47	1.38
12	B	817	CLA	C4B-CHC	2.48	1.47	1.41
12	L	203	CLA	C4D-CHA	2.48	1.47	1.38
12	B	803	CLA	C4D-CHA	2.48	1.47	1.38
12	A	842	CLA	C4C-C3C	2.48	1.49	1.45
12	B	830	CLA	C3D-C4D	-2.48	1.38	1.44
15	J	104	BCR	C1-C6	-2.47	1.50	1.53
12	A	808	CLA	C1B-NB	-2.47	1.33	1.35
12	B	820	CLA	C3D-C4D	-2.47	1.38	1.44
12	B	812	CLA	C4C-C3C	2.46	1.49	1.45
12	A	821	CLA	C4B-CHC	2.46	1.47	1.41
12	A	812	CLA	C4C-C3C	2.46	1.49	1.45
12	A	803	CLA	C3D-C4D	-2.45	1.38	1.44
12	A	807	CLA	C4C-C3C	2.45	1.49	1.45
12	A	819	CLA	C4C-C3C	2.45	1.49	1.45
12	A	827	CLA	C4B-CHC	2.45	1.47	1.41
12	A	839	CLA	C3D-C4D	-2.45	1.38	1.44
12	A	816	CLA	C4C-C3C	2.44	1.49	1.45
12	B	813	CLA	C4C-C3C	2.44	1.49	1.45
12	B	827	CLA	C4C-C3C	2.44	1.49	1.45
12	A	818	CLA	C4B-CHC	2.44	1.47	1.41
12	A	836	CLA	C4C-C3C	2.44	1.49	1.45
15	A	851	BCR	C1-C6	-2.44	1.50	1.53
12	A	814	CLA	C1C-C2C	2.44	1.49	1.44
12	B	823	CLA	C4D-CHA	2.43	1.47	1.38
12	A	840	CLA	C1C-C2C	2.43	1.49	1.44
12	A	813	CLA	C4C-C3C	2.43	1.49	1.45
12	B	801	CLA	C4D-CHA	2.42	1.47	1.38
12	B	819	CLA	C4C-C3C	2.42	1.49	1.45
12	B	831	CLA	C4C-C3C	2.42	1.49	1.45
12	A	854	CLA	C1C-C2C	2.42	1.49	1.44
12	A	820	CLA	C4C-C3C	2.41	1.49	1.45
15	L	201	BCR	C30-C25	-2.41	1.50	1.53
12	A	815	CLA	C4C-C3C	2.41	1.49	1.45
12	B	828	CLA	C4B-CHC	2.41	1.47	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	814	CLA	C4B-CHC	2.41	1.47	1.41
12	A	832	CLA	C4B-CHC	2.41	1.47	1.41
15	F	201	BCR	C30-C25	-2.41	1.50	1.53
12	B	811	CLA	C3D-C4D	-2.41	1.38	1.44
12	A	836	CLA	C4B-CHC	2.40	1.47	1.41
12	B	822	CLA	C1B-NB	-2.40	1.33	1.35
12	B	819	CLA	C3D-C4D	-2.40	1.38	1.44
12	L	204	CLA	C3D-C4D	-2.40	1.38	1.44
12	A	831	CLA	C4C-C3C	2.40	1.49	1.45
12	A	837	CLA	C4C-C3C	2.40	1.49	1.45
12	A	809	CLA	C4B-CHC	2.40	1.47	1.41
12	A	829	CLA	C4B-CHC	2.40	1.47	1.41
12	B	808	CLA	C3D-C4D	-2.40	1.38	1.44
12	A	841	CLA	C4B-CHC	2.39	1.47	1.41
12	B	812	CLA	C1C-C2C	2.39	1.49	1.44
12	A	839	CLA	C4B-CHC	2.39	1.47	1.41
12	B	816	CLA	C4C-C3C	2.39	1.49	1.45
12	B	817	CLA	C3D-C4D	-2.39	1.38	1.44
12	A	805	CLA	C3D-C4D	-2.39	1.38	1.44
12	A	803	CLA	C4C-C3C	2.39	1.49	1.45
12	B	815	CLA	C4C-C3C	2.39	1.49	1.45
12	A	828	CLA	C1C-C2C	2.38	1.49	1.44
12	A	821	CLA	C1C-C2C	2.38	1.49	1.44
12	A	818	CLA	C3D-C4D	-2.38	1.38	1.44
12	B	819	CLA	C4B-CHC	2.37	1.47	1.41
15	J	102	BCR	C30-C25	-2.37	1.50	1.53
12	B	801	CLA	C4C-C3C	2.37	1.49	1.45
12	A	832	CLA	C3D-C4D	-2.37	1.38	1.44
12	A	808	CLA	C4B-CHC	2.37	1.47	1.41
12	B	825	CLA	C4D-CHA	2.37	1.46	1.38
12	A	841	CLA	C1C-C2C	2.37	1.49	1.44
12	A	829	CLA	C1C-C2C	2.37	1.49	1.44
12	B	826	CLA	C4C-C3C	2.37	1.49	1.45
12	A	831	CLA	C3D-C4D	-2.36	1.38	1.44
12	A	837	CLA	C1B-CHB	2.36	1.47	1.41
12	A	840	CLA	C4B-CHC	2.36	1.47	1.41
12	A	826	CLA	C4B-CHC	2.36	1.47	1.41
12	A	822	CLA	C4B-CHC	2.36	1.47	1.41
12	B	829	CLA	C1B-NB	-2.36	1.33	1.35
12	A	821	CLA	C3D-C4D	-2.36	1.38	1.44
12	A	830	CLA	C4C-C3C	2.36	1.49	1.45
11	A	801	CL0	C3D-C4D	-2.36	1.38	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J	101	CLA	C4B-CHC	2.36	1.47	1.41
12	B	822	CLA	C3D-C4D	-2.36	1.38	1.44
12	A	825	CLA	C3D-C4D	-2.36	1.38	1.44
12	A	840	CLA	C1B-NB	-2.35	1.33	1.35
12	A	843	CLA	C4C-C3C	2.35	1.49	1.45
12	A	812	CLA	C4B-CHC	2.35	1.47	1.41
12	B	826	CLA	C3D-C4D	-2.35	1.38	1.44
12	L	204	CLA	C4B-CHC	2.35	1.47	1.41
12	B	821	CLA	C1B-NB	-2.35	1.33	1.35
12	A	817	CLA	C3D-C4D	-2.35	1.38	1.44
12	A	827	CLA	C3D-C4D	-2.35	1.38	1.44
12	B	813	CLA	C4B-CHC	2.35	1.47	1.41
12	A	834	CLA	C3D-C4D	-2.35	1.38	1.44
12	B	824	CLA	C4C-C3C	2.35	1.49	1.45
12	B	825	CLA	C4C-C3C	2.35	1.49	1.45
12	A	803	CLA	C4B-CHC	2.35	1.47	1.41
12	B	808	CLA	C4B-CHC	2.34	1.47	1.41
12	A	833	CLA	C3D-C4D	-2.34	1.38	1.44
12	A	802	CLA	C4B-CHC	2.34	1.47	1.41
12	A	824	CLA	C3D-C4D	-2.34	1.38	1.44
16	A	852	LHG	O7-C5	-2.34	1.40	1.46
12	B	817	CLA	C1B-NB	-2.34	1.33	1.35
12	A	806	CLA	C4B-CHC	2.33	1.47	1.41
12	B	832	CLA	C3D-C4D	-2.33	1.38	1.44
12	B	809	CLA	C3D-C4D	-2.33	1.38	1.44
15	A	848	BCR	C1-C6	-2.33	1.50	1.53
12	B	802	CLA	C4B-CHC	2.33	1.47	1.41
12	B	804	CLA	C4B-CHC	2.33	1.47	1.41
12	B	803	CLA	C1B-CHB	2.33	1.47	1.41
12	A	834	CLA	C4C-C3C	2.33	1.49	1.45
12	A	835	CLA	C4C-C3C	2.32	1.49	1.45
12	A	840	CLA	C4C-C3C	2.32	1.49	1.45
12	A	820	CLA	C1B-NB	-2.32	1.33	1.35
12	A	823	CLA	C3D-C4D	-2.32	1.38	1.44
12	B	824	CLA	C3D-C4D	-2.32	1.38	1.44
12	B	802	CLA	C1B-NB	-2.32	1.33	1.35
12	B	828	CLA	C3D-C4D	-2.32	1.38	1.44
12	B	825	CLA	C1C-C2C	2.32	1.49	1.44
12	J	101	CLA	C4C-C3C	2.31	1.49	1.45
12	B	814	CLA	C1C-C2C	2.31	1.49	1.44
12	A	813	CLA	C3D-C4D	-2.31	1.39	1.44
12	F	203	CLA	C3D-C4D	-2.31	1.39	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	838	CLA	C3D-C4D	-2.31	1.39	1.44
12	A	809	CLA	C1B-CHB	2.31	1.47	1.41
12	B	825	CLA	C3D-C4D	-2.31	1.39	1.44
12	A	808	CLA	C1C-C2C	2.31	1.49	1.44
12	A	831	CLA	C4B-CHC	2.31	1.47	1.41
12	B	812	CLA	C4B-CHC	2.31	1.47	1.41
12	B	820	CLA	C1B-NB	-2.31	1.33	1.35
12	B	803	CLA	C3D-C4D	-2.31	1.39	1.44
12	A	818	CLA	C1C-NC	-2.31	1.34	1.37
12	B	824	CLA	C4B-CHC	2.31	1.47	1.41
12	L	202	CLA	C4B-CHC	2.31	1.47	1.41
12	B	831	CLA	C1C-C2C	2.30	1.49	1.44
12	B	807	CLA	C3D-C4D	-2.30	1.39	1.44
12	A	813	CLA	C4B-CHC	2.30	1.47	1.41
12	A	835	CLA	C3D-C4D	-2.30	1.39	1.44
12	B	808	CLA	C1C-C2C	2.30	1.49	1.44
12	A	828	CLA	C4C-C3C	2.30	1.49	1.45
12	A	809	CLA	C3D-C4D	-2.30	1.39	1.44
12	B	827	CLA	C4B-CHC	2.30	1.47	1.41
12	A	815	CLA	C4B-CHC	2.30	1.47	1.41
12	F	203	CLA	C4B-CHC	2.30	1.47	1.41
12	A	829	CLA	C3D-C4D	-2.30	1.39	1.44
12	A	839	CLA	C1C-C2C	2.30	1.49	1.44
12	A	841	CLA	C4C-C3C	2.30	1.49	1.45
12	A	826	CLA	C1B-NB	-2.30	1.33	1.35
17	B	837	LMG	O7-C8	-2.30	1.40	1.46
12	A	822	CLA	C1B-NB	-2.29	1.33	1.35
12	B	809	CLA	C1B-NB	-2.29	1.33	1.35
12	A	838	CLA	C4B-CHC	2.29	1.47	1.41
12	B	814	CLA	C4B-CHC	2.29	1.47	1.41
12	B	820	CLA	C1C-C2C	2.29	1.49	1.44
12	A	807	CLA	C3D-C4D	-2.29	1.39	1.44
12	A	838	CLA	C1B-NB	-2.29	1.33	1.35
12	A	811	CLA	C4C-C3C	2.28	1.49	1.45
12	B	808	CLA	C1B-CHB	2.28	1.47	1.41
12	A	811	CLA	C3D-C4D	-2.28	1.39	1.44
15	A	846	BCR	C30-C25	-2.28	1.50	1.53
12	L	203	CLA	C3D-C4D	-2.28	1.39	1.44
12	A	830	CLA	C3D-C4D	-2.28	1.39	1.44
12	B	831	CLA	C4B-CHC	2.28	1.47	1.41
12	A	810	CLA	C4C-C3C	2.28	1.49	1.45
12	A	833	CLA	C4B-CHC	2.28	1.47	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	807	CLA	C4B-CHC	2.28	1.47	1.41
12	B	811	CLA	C4B-CHC	2.28	1.47	1.41
12	A	828	CLA	C4B-CHC	2.28	1.47	1.41
12	B	826	CLA	C4B-CHC	2.27	1.47	1.41
12	B	810	CLA	C4C-C3C	2.27	1.49	1.45
12	B	822	CLA	C4B-CHC	2.27	1.47	1.41
12	B	802	CLA	C4C-C3C	2.27	1.48	1.45
12	A	837	CLA	C4B-NB	-2.27	1.33	1.35
11	A	801	CL0	C1C-C2C	2.27	1.49	1.44
12	A	809	CLA	C1C-C2C	2.27	1.49	1.44
12	A	803	CLA	C1B-NB	-2.27	1.33	1.35
12	B	830	CLA	C4B-CHC	2.27	1.47	1.41
12	B	828	CLA	C1B-NB	-2.26	1.33	1.35
12	B	830	CLA	C4C-C3C	2.26	1.48	1.45
15	A	848	BCR	C30-C25	-2.26	1.50	1.53
12	B	805	CLA	C4C-C3C	2.26	1.48	1.45
12	J	101	CLA	C3D-C4D	-2.26	1.39	1.44
12	B	813	CLA	C1C-C2C	2.26	1.48	1.44
12	A	812	CLA	C3D-C4D	-2.26	1.39	1.44
12	A	838	CLA	C4C-C3C	2.26	1.48	1.45
12	A	817	CLA	C4B-CHC	2.25	1.47	1.41
12	A	825	CLA	C4B-CHC	2.25	1.47	1.41
12	A	842	CLA	C4B-CHC	2.25	1.47	1.41
12	A	820	CLA	C3D-C4D	-2.25	1.39	1.44
12	B	815	CLA	C3D-C4D	-2.25	1.39	1.44
12	B	817	CLA	C4C-C3C	2.25	1.48	1.45
12	A	828	CLA	C3D-C4D	-2.25	1.39	1.44
12	B	810	CLA	C3D-C4D	-2.24	1.39	1.44
12	L	202	CLA	C3D-C4D	-2.24	1.39	1.44
12	B	814	CLA	C3D-C4D	-2.24	1.39	1.44
12	A	824	CLA	C4B-CHC	2.24	1.47	1.41
12	B	829	CLA	C4B-CHC	2.24	1.47	1.41
12	A	810	CLA	C4B-CHC	2.24	1.47	1.41
12	A	822	CLA	C3D-C4D	-2.24	1.39	1.44
12	B	828	CLA	C1C-C2C	2.24	1.48	1.44
12	B	821	CLA	C3D-C4D	-2.24	1.39	1.44
12	B	818	CLA	C3D-C4D	-2.24	1.39	1.44
12	B	821	CLA	C4B-CHC	2.24	1.47	1.41
15	L	206	BCR	C30-C25	-2.24	1.50	1.53
12	B	818	CLA	C4B-CHC	2.24	1.47	1.41
12	A	836	CLA	C1C-C2C	2.24	1.48	1.44
12	A	843	CLA	C4B-CHC	2.24	1.47	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	841	CLA	C3D-C4D	-2.24	1.39	1.44
12	L	202	CLA	C4C-C3C	2.23	1.48	1.45
12	B	809	CLA	C1C-NC	-2.23	1.34	1.37
12	B	831	CLA	C1B-NB	-2.23	1.33	1.35
12	B	813	CLA	C3D-C4D	-2.23	1.39	1.44
12	B	804	CLA	C1C-NC	-2.23	1.34	1.37
12	A	842	CLA	C1C-C2C	2.23	1.48	1.44
15	A	847	BCR	C30-C25	-2.23	1.50	1.53
12	B	812	CLA	C3D-C4D	-2.23	1.39	1.44
12	A	815	CLA	C3D-C4D	-2.23	1.39	1.44
12	A	816	CLA	C3D-C4D	-2.22	1.39	1.44
12	A	842	CLA	C3D-C4D	-2.22	1.39	1.44
12	A	819	CLA	C3D-C4D	-2.22	1.39	1.44
12	B	817	CLA	C1C-C2C	2.22	1.48	1.44
12	A	825	CLA	C4C-C3C	2.22	1.48	1.45
12	A	804	CLA	C1B-NB	-2.22	1.33	1.35
12	A	807	CLA	C1B-NB	-2.22	1.33	1.35
12	B	801	CLA	C3D-C4D	-2.22	1.39	1.44
12	A	804	CLA	C3D-C4D	-2.22	1.39	1.44
12	A	811	CLA	C4B-CHC	2.22	1.47	1.41
12	A	822	CLA	C1B-CHB	2.22	1.47	1.41
12	B	816	CLA	C3D-C4D	-2.22	1.39	1.44
11	A	801	CL0	C4B-CHC	2.22	1.47	1.41
12	B	829	CLA	C3D-C4D	-2.22	1.39	1.44
12	A	812	CLA	C1B-NB	-2.22	1.33	1.35
12	A	814	CLA	C4C-C3C	2.21	1.48	1.45
12	B	811	CLA	C1B-CHB	2.21	1.47	1.41
12	A	832	CLA	C4C-C3C	2.21	1.48	1.45
12	A	834	CLA	C1C-NC	-2.21	1.34	1.37
12	B	809	CLA	C4B-CHC	2.21	1.47	1.41
12	B	832	CLA	C1C-NC	-2.21	1.34	1.37
12	A	816	CLA	C4B-CHC	2.21	1.47	1.41
12	A	810	CLA	C3D-C4D	-2.21	1.39	1.44
12	B	827	CLA	C1C-C2C	2.21	1.48	1.44
12	A	833	CLA	C4C-C3C	2.21	1.48	1.45
12	A	826	CLA	C1C-C2C	2.21	1.48	1.44
12	A	854	CLA	C4B-CHC	2.21	1.47	1.41
12	A	818	CLA	C4C-C3C	2.20	1.48	1.45
12	A	802	CLA	C1C-C2C	2.20	1.48	1.44
12	B	824	CLA	C1C-C2C	2.20	1.48	1.44
12	A	825	CLA	C1B-NB	-2.20	1.33	1.35
12	L	202	CLA	C1C-C2C	2.20	1.48	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	827	CLA	C1C-NC	-2.20	1.34	1.37
12	B	828	CLA	C4C-C3C	2.20	1.48	1.45
12	A	823	CLA	C1C-C2C	2.20	1.48	1.44
12	A	808	CLA	C4C-C3C	2.20	1.48	1.45
12	A	827	CLA	C1C-C2C	2.19	1.48	1.44
12	A	807	CLA	C4B-CHC	2.19	1.47	1.41
12	B	802	CLA	C3D-C4D	-2.19	1.39	1.44
12	B	805	CLA	C4B-CHC	2.19	1.47	1.41
12	A	831	CLA	C1C-C2C	2.19	1.48	1.44
12	A	854	CLA	C4C-C3C	2.19	1.48	1.45
12	A	837	CLA	C4B-CHC	2.19	1.47	1.41
12	B	802	CLA	C1C-C2C	2.19	1.48	1.44
12	B	814	CLA	C4C-C3C	2.19	1.48	1.45
12	A	823	CLA	C4B-CHC	2.19	1.47	1.41
12	B	832	CLA	C1B-CHB	2.18	1.47	1.41
12	A	820	CLA	C1B-CHB	2.18	1.47	1.41
12	B	805	CLA	C1C-C2C	2.18	1.48	1.44
12	B	822	CLA	C1C-C2C	2.18	1.48	1.44
12	F	203	CLA	C1C-C2C	2.17	1.48	1.44
12	A	825	CLA	C1B-CHB	2.17	1.47	1.41
12	B	827	CLA	C1B-CHB	2.17	1.47	1.41
12	F	203	CLA	C1B-CHB	2.17	1.47	1.41
12	B	810	CLA	C1B-CHB	2.17	1.47	1.41
12	A	809	CLA	C4C-C3C	2.17	1.48	1.45
12	B	819	CLA	C1C-C2C	2.17	1.48	1.44
12	L	204	CLA	C4C-C3C	2.17	1.48	1.45
12	B	804	CLA	C4C-C3C	2.17	1.48	1.45
12	A	814	CLA	C3D-C4D	-2.16	1.39	1.44
12	A	835	CLA	C4B-CHC	2.16	1.47	1.41
12	A	839	CLA	C1B-NB	-2.16	1.33	1.35
12	A	836	CLA	C3D-C4D	-2.16	1.39	1.44
12	A	817	CLA	C4C-C3C	2.16	1.48	1.45
12	A	816	CLA	C1B-CHB	2.16	1.47	1.41
12	A	806	CLA	C1B-CHB	2.16	1.47	1.41
12	A	822	CLA	C1C-C2C	2.16	1.48	1.44
12	A	834	CLA	C4B-CHC	2.15	1.47	1.41
12	L	204	CLA	C1C-C2C	2.15	1.48	1.44
12	A	820	CLA	C4B-CHC	2.15	1.47	1.41
12	B	827	CLA	C3D-C4D	-2.15	1.39	1.44
12	B	812	CLA	C1B-CHB	2.15	1.47	1.41
12	A	833	CLA	C1C-C2C	2.15	1.48	1.44
12	B	806	CLA	C3D-C4D	-2.15	1.39	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	824	CLA	C1B-NB	-2.15	1.33	1.35
12	A	808	CLA	C3D-C4D	-2.15	1.39	1.44
12	A	843	CLA	C1B-CHB	2.15	1.47	1.41
12	A	854	CLA	C1B-CHB	2.15	1.47	1.41
15	A	851	BCR	C30-C25	-2.15	1.50	1.53
12	B	822	CLA	C4C-C3C	2.14	1.48	1.45
12	B	803	CLA	C1A-CHA	2.14	1.52	1.43
12	B	818	CLA	C1A-CHA	2.14	1.52	1.43
12	A	827	CLA	C1B-NB	-2.14	1.33	1.35
12	B	825	CLA	C1B-NB	-2.14	1.33	1.35
12	B	815	CLA	C4B-CHC	2.14	1.46	1.41
12	L	203	CLA	C4B-CHC	2.14	1.46	1.41
12	B	816	CLA	C1C-C2C	2.13	1.48	1.44
12	A	805	CLA	C4C-C3C	2.13	1.48	1.45
12	A	806	CLA	C1C-C2C	2.13	1.48	1.44
12	A	832	CLA	C1C-C2C	2.13	1.48	1.44
12	B	804	CLA	C1A-CHA	2.13	1.51	1.43
12	A	813	CLA	C1C-C2C	2.13	1.48	1.44
12	A	836	CLA	C1B-CHB	2.13	1.46	1.41
12	B	806	CLA	C1B-CHB	2.13	1.46	1.41
12	B	830	CLA	C1B-NB	-2.13	1.33	1.35
12	A	835	CLA	C1C-C2C	2.12	1.48	1.44
12	A	805	CLA	C1B-NB	-2.12	1.33	1.35
12	L	202	CLA	C1B-NB	-2.12	1.33	1.35
12	A	843	CLA	C1B-NB	-2.12	1.33	1.35
12	B	822	CLA	C1C-NC	-2.12	1.34	1.37
12	A	814	CLA	C1B-NB	-2.12	1.33	1.35
12	A	805	CLA	C4B-CHC	2.12	1.46	1.41
12	L	203	CLA	C1B-CHB	2.12	1.46	1.41
12	A	803	CLA	C1B-CHB	2.12	1.46	1.41
12	A	811	CLA	C1B-NB	-2.12	1.33	1.35
12	A	839	CLA	C1C-NC	-2.12	1.34	1.37
12	B	818	CLA	C4C-C3C	2.12	1.48	1.45
12	A	815	CLA	C1C-C2C	2.11	1.48	1.44
12	A	843	CLA	C3D-C4D	-2.11	1.39	1.44
12	A	841	CLA	C1B-CHB	2.11	1.46	1.41
12	A	842	CLA	C1B-CHB	2.11	1.46	1.41
12	A	816	CLA	C1B-NB	-2.11	1.33	1.35
12	L	203	CLA	C4C-C3C	2.11	1.48	1.45
12	B	830	CLA	C1C-C2C	2.10	1.48	1.44
12	B	820	CLA	C1B-CHB	2.10	1.46	1.41
12	A	807	CLA	C1C-C2C	2.10	1.48	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	810	CLA	C1B-CHB	2.10	1.46	1.41
15	A	849	BCR	C30-C25	-2.10	1.50	1.53
12	A	817	CLA	C1C-C2C	2.10	1.48	1.44
12	A	824	CLA	C1C-C2C	2.10	1.48	1.44
12	A	813	CLA	C1B-NB	-2.10	1.33	1.35
12	B	821	CLA	C1C-C2C	2.10	1.48	1.44
12	B	801	CLA	C4B-NB	-2.10	1.33	1.35
12	B	815	CLA	C1B-NB	-2.10	1.33	1.35
12	B	816	CLA	C4B-CHC	2.10	1.46	1.41
12	A	827	CLA	C1B-CHB	2.09	1.46	1.41
12	A	812	CLA	C1B-CHB	2.09	1.46	1.41
12	B	816	CLA	C1B-CHB	2.09	1.46	1.41
12	B	826	CLA	C1B-CHB	2.09	1.46	1.41
11	A	801	CL0	C1C-NC	-2.09	1.34	1.37
12	B	801	CLA	C1C-C2C	2.09	1.48	1.44
12	A	813	CLA	C1C-NC	-2.09	1.34	1.37
12	A	821	CLA	C4C-C3C	2.09	1.48	1.45
12	A	819	CLA	C1A-CHA	2.09	1.51	1.43
12	A	832	CLA	C1B-NB	-2.09	1.33	1.35
12	A	806	CLA	C1B-NB	-2.08	1.33	1.35
12	L	204	CLA	C1B-CHB	2.08	1.46	1.41
12	B	830	CLA	C1B-CHB	2.08	1.46	1.41
12	A	803	CLA	C1C-NC	-2.08	1.34	1.37
12	A	815	CLA	C1B-CHB	2.08	1.46	1.41
12	A	831	CLA	C1B-CHB	2.08	1.46	1.41
12	A	808	CLA	C1A-CHA	2.08	1.51	1.43
12	A	828	CLA	C1A-CHA	2.07	1.51	1.43
12	A	826	CLA	C4C-C3C	2.07	1.48	1.45
12	J	101	CLA	C1C-C2C	2.07	1.48	1.44
12	A	832	CLA	C1B-CHB	2.07	1.46	1.41
12	B	805	CLA	C3D-C4D	-2.07	1.39	1.44
12	A	825	CLA	C1C-C2C	2.07	1.48	1.44
12	A	829	CLA	C4C-C3C	2.07	1.48	1.45
12	A	823	CLA	C1B-NB	-2.07	1.33	1.35
12	A	839	CLA	C1B-CHB	2.07	1.46	1.41
12	B	828	CLA	C1B-CHB	2.07	1.46	1.41
12	B	805	CLA	C1A-CHA	2.07	1.51	1.43
12	A	836	CLA	C1B-NB	-2.07	1.33	1.35
12	A	812	CLA	C1C-C2C	2.07	1.48	1.44
12	A	810	CLA	C1C-C2C	2.06	1.48	1.44
12	A	802	CLA	C3D-C4D	-2.06	1.39	1.44
12	B	807	CLA	C1C-NC	-2.06	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B	829	CLA	C4C-C3C	2.06	1.48	1.45
12	B	811	CLA	C1C-C2C	2.06	1.48	1.44
12	B	811	CLA	C1B-NB	-2.06	1.33	1.35
12	A	838	CLA	C1C-C2C	2.06	1.48	1.44
12	L	203	CLA	C1C-C2C	2.05	1.48	1.44
12	J	101	CLA	C1B-CHB	2.05	1.46	1.41
12	B	803	CLA	C1C-C2C	2.05	1.48	1.44
12	A	839	CLA	C4C-C3C	2.05	1.48	1.45
12	B	808	CLA	C1B-NB	-2.05	1.33	1.35
12	A	823	CLA	C1B-CHB	2.05	1.46	1.41
12	A	833	CLA	C1B-CHB	2.05	1.46	1.41
12	A	831	CLA	C1B-NB	-2.05	1.33	1.35
12	B	807	CLA	C1B-CHB	2.05	1.46	1.41
12	B	818	CLA	C1C-C2C	2.05	1.48	1.44
12	A	830	CLA	C4B-CHC	2.05	1.46	1.41
12	B	823	CLA	C1B-CHB	2.05	1.46	1.41
12	A	843	CLA	C1A-CHA	2.05	1.51	1.43
12	A	842	CLA	C1A-CHA	2.05	1.51	1.43
12	A	837	CLA	C1C-C2C	2.04	1.48	1.44
12	B	802	CLA	C1B-CHB	2.04	1.46	1.41
15	F	202	BCR	C30-C25	-2.04	1.51	1.53
12	B	805	CLA	C1B-CHB	2.04	1.46	1.41
12	B	814	CLA	C1B-CHB	2.04	1.46	1.41
12	B	816	CLA	C1A-CHA	2.04	1.51	1.43
12	A	843	CLA	C1C-C2C	2.04	1.48	1.44
12	A	842	CLA	C1B-NB	-2.03	1.33	1.35
12	B	803	CLA	C4B-CHC	2.03	1.46	1.41
12	A	809	CLA	C1B-NB	-2.03	1.33	1.35
12	A	854	CLA	C1A-CHA	2.03	1.51	1.43
12	B	823	CLA	C4B-CHC	2.03	1.46	1.41
12	B	825	CLA	C1B-CHB	2.03	1.46	1.41
12	A	819	CLA	C4B-CHC	2.03	1.46	1.41
12	A	813	CLA	C1B-CHB	2.03	1.46	1.41
12	B	810	CLA	C1A-CHA	2.02	1.51	1.43
12	B	813	CLA	C1B-CHB	2.02	1.46	1.41
12	A	816	CLA	C1C-C2C	2.02	1.48	1.44
12	A	806	CLA	C1C-NC	-2.02	1.34	1.37
12	B	824	CLA	C1B-CHB	2.02	1.46	1.41
12	B	816	CLA	C1B-NB	-2.02	1.33	1.35
12	A	840	CLA	C1A-CHA	2.02	1.51	1.43
12	A	830	CLA	C1B-CHB	2.02	1.46	1.41
12	A	840	CLA	C3D-C4D	-2.02	1.39	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J	101	CLA	C1B-NB	-2.02	1.33	1.35
15	I	101	BCR	C27-C26	-2.01	1.47	1.51
12	A	811	CLA	C1B-CHB	2.01	1.46	1.41
12	A	824	CLA	C1B-CHB	2.01	1.46	1.41
12	A	835	CLA	C1B-CHB	2.01	1.46	1.41
12	A	825	CLA	C1C-NC	-2.01	1.34	1.37
12	B	821	CLA	C4C-C3C	2.01	1.48	1.45
12	B	814	CLA	C1A-CHA	2.01	1.51	1.43
12	B	826	CLA	C1C-C2C	2.01	1.48	1.44
12	A	832	CLA	C1C-NC	-2.01	1.34	1.37
12	B	829	CLA	C1C-C2C	2.01	1.48	1.44
12	A	814	CLA	C1B-CHB	2.00	1.46	1.41

All (2316) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	825	CLA	C1D-ND-C4D	-10.62	98.79	106.33
12	L	203	CLA	C1D-ND-C4D	-9.89	99.31	106.33
12	A	822	CLA	C1D-ND-C4D	-9.67	99.47	106.33
12	A	817	CLA	C1D-ND-C4D	-9.61	99.51	106.33
12	B	825	CLA	C2D-C1D-ND	9.58	117.16	110.10
12	B	824	CLA	C1D-ND-C4D	-9.52	99.57	106.33
12	L	204	CLA	C1D-ND-C4D	-9.48	99.60	106.33
12	B	816	CLA	C1D-ND-C4D	-9.40	99.66	106.33
12	L	202	CLA	C1D-ND-C4D	-9.38	99.67	106.33
12	B	829	CLA	C1D-ND-C4D	-9.34	99.70	106.33
12	B	809	CLA	C1D-ND-C4D	-9.33	99.71	106.33
12	A	802	CLA	C1D-ND-C4D	-9.32	99.71	106.33
12	B	827	CLA	C1D-ND-C4D	-9.32	99.71	106.33
12	A	815	CLA	C1D-ND-C4D	-9.32	99.71	106.33
12	B	830	CLA	C1D-ND-C4D	-9.32	99.71	106.33
12	A	839	CLA	C1D-ND-C4D	-9.30	99.73	106.33
12	B	803	CLA	C1D-ND-C4D	-9.27	99.75	106.33
12	A	811	CLA	C1D-ND-C4D	-9.25	99.76	106.33
12	A	835	CLA	C1D-ND-C4D	-9.23	99.78	106.33
12	A	832	CLA	C1D-ND-C4D	-9.20	99.80	106.33
12	B	804	CLA	C1D-ND-C4D	-9.20	99.80	106.33
12	B	831	CLA	C1D-ND-C4D	-9.18	99.82	106.33
12	B	807	CLA	C1D-ND-C4D	-9.13	99.85	106.33
12	B	828	CLA	C1D-ND-C4D	-9.12	99.85	106.33
12	A	804	CLA	C1D-ND-C4D	-9.10	99.87	106.33
12	A	843	CLA	C1D-ND-C4D	-9.10	99.87	106.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	821	CLA	C1D-ND-C4D	-9.09	99.88	106.33
12	B	821	CLA	C1D-ND-C4D	-9.09	99.88	106.33
12	B	819	CLA	C1D-ND-C4D	-9.08	99.88	106.33
12	A	816	CLA	C1D-ND-C4D	-9.06	99.90	106.33
12	B	804	CLA	C2D-C1D-ND	9.06	116.78	110.10
12	A	841	CLA	C1D-ND-C4D	-9.06	99.90	106.33
12	A	806	CLA	C1D-ND-C4D	-9.04	99.91	106.33
12	A	809	CLA	C1D-ND-C4D	-9.04	99.91	106.33
12	A	802	CLA	C2D-C1D-ND	9.04	116.77	110.10
12	J	101	CLA	C1D-ND-C4D	-9.04	99.92	106.33
12	B	808	CLA	C1D-ND-C4D	-9.02	99.93	106.33
12	A	805	CLA	C1D-ND-C4D	-9.01	99.94	106.33
12	B	814	CLA	C1D-ND-C4D	-9.00	99.94	106.33
12	A	842	CLA	C1D-ND-C4D	-8.98	99.96	106.33
12	A	834	CLA	C1D-ND-C4D	-8.97	99.96	106.33
11	A	801	CL0	C1D-ND-C4D	-8.97	99.96	106.33
12	A	823	CLA	C1D-ND-C4D	-8.97	99.96	106.33
12	B	826	CLA	C1D-ND-C4D	-8.96	99.97	106.33
12	B	812	CLA	C1D-ND-C4D	-8.95	99.97	106.33
12	B	817	CLA	C1D-ND-C4D	-8.94	99.99	106.33
12	A	818	CLA	C1D-ND-C4D	-8.92	100.00	106.33
12	A	854	CLA	C2D-C1D-ND	8.90	116.66	110.10
12	A	827	CLA	C1D-ND-C4D	-8.89	100.02	106.33
12	A	810	CLA	C1D-ND-C4D	-8.89	100.02	106.33
12	A	836	CLA	C1D-ND-C4D	-8.88	100.03	106.33
12	A	826	CLA	C1D-ND-C4D	-8.88	100.03	106.33
12	B	806	CLA	C1D-ND-C4D	-8.87	100.04	106.33
12	L	203	CLA	C2D-C1D-ND	8.86	116.64	110.10
12	B	805	CLA	C1D-ND-C4D	-8.85	100.05	106.33
12	A	833	CLA	C1D-ND-C4D	-8.81	100.07	106.33
12	B	822	CLA	C1D-ND-C4D	-8.80	100.08	106.33
12	A	838	CLA	C1D-ND-C4D	-8.80	100.08	106.33
12	A	825	CLA	C1D-ND-C4D	-8.78	100.10	106.33
12	B	815	CLA	C1D-ND-C4D	-8.76	100.11	106.33
12	A	829	CLA	C1D-ND-C4D	-8.76	100.11	106.33
12	A	812	CLA	C1D-ND-C4D	-8.75	100.12	106.33
12	A	831	CLA	C1D-ND-C4D	-8.75	100.12	106.33
12	B	820	CLA	C1D-ND-C4D	-8.70	100.16	106.33
12	A	803	CLA	C1D-ND-C4D	-8.68	100.17	106.33
12	B	802	CLA	C1D-ND-C4D	-8.67	100.18	106.33
12	A	807	CLA	C1D-ND-C4D	-8.66	100.18	106.33
12	A	840	CLA	C1D-ND-C4D	-8.66	100.18	106.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	808	CLA	C1D-ND-C4D	-8.63	100.20	106.33
12	A	824	CLA	C1D-ND-C4D	-8.63	100.20	106.33
12	A	854	CLA	C1D-ND-C4D	-8.61	100.22	106.33
12	B	821	CLA	C2D-C1D-ND	8.61	116.45	110.10
12	A	814	CLA	C1D-ND-C4D	-8.59	100.23	106.33
12	B	813	CLA	C1D-ND-C4D	-8.59	100.23	106.33
12	A	813	CLA	C1D-ND-C4D	-8.57	100.25	106.33
12	B	829	CLA	C2D-C1D-ND	8.51	116.38	110.10
12	B	823	CLA	CMD-C2D-C1D	8.51	139.71	124.71
12	A	828	CLA	C1D-ND-C4D	-8.46	100.33	106.33
12	B	818	CLA	C1D-ND-C4D	-8.44	100.34	106.33
12	B	832	CLA	C1D-ND-C4D	-8.39	100.37	106.33
12	A	830	CLA	C1D-ND-C4D	-8.36	100.40	106.33
12	A	804	CLA	C2D-C1D-ND	8.34	116.25	110.10
12	A	819	CLA	C1D-ND-C4D	-8.34	100.41	106.33
12	F	203	CLA	C1D-ND-C4D	-8.29	100.44	106.33
12	A	822	CLA	C2D-C1D-ND	8.26	116.19	110.10
12	A	837	CLA	C1D-ND-C4D	-8.22	100.50	106.33
12	B	801	CLA	C1D-ND-C4D	-8.21	100.50	106.33
12	B	811	CLA	C1D-ND-C4D	-8.21	100.51	106.33
12	B	808	CLA	C2D-C1D-ND	8.20	116.14	110.10
12	B	824	CLA	C2D-C1D-ND	8.18	116.13	110.10
12	A	820	CLA	C1D-ND-C4D	-8.18	100.52	106.33
12	A	827	CLA	C2D-C1D-ND	8.17	116.12	110.10
12	B	820	CLA	C2D-C1D-ND	8.12	116.09	110.10
12	A	840	CLA	C2D-C1D-ND	8.11	116.08	110.10
12	L	204	CLA	C2D-C1D-ND	8.10	116.07	110.10
12	B	809	CLA	C2D-C1D-ND	8.08	116.06	110.10
12	B	828	CLA	C2D-C1D-ND	8.06	116.05	110.10
12	B	806	CLA	C2D-C1D-ND	8.06	116.04	110.10
12	B	810	CLA	C1D-ND-C4D	-8.05	100.62	106.33
12	A	808	CLA	C2D-C1D-ND	8.03	116.02	110.10
12	A	843	CLA	C2D-C1D-ND	8.03	116.02	110.10
12	B	807	CLA	C2D-C1D-ND	8.03	116.02	110.10
12	L	202	CLA	C2D-C1D-ND	8.01	116.01	110.10
12	B	830	CLA	C2D-C1D-ND	8.00	116.00	110.10
12	A	811	CLA	C2D-C1D-ND	7.99	115.99	110.10
12	A	817	CLA	C2D-C1D-ND	7.99	115.99	110.10
12	B	816	CLA	C2D-C1D-ND	7.98	115.98	110.10
12	A	835	CLA	C2D-C1D-ND	7.93	115.95	110.10
12	A	806	CLA	C2D-C1D-ND	7.93	115.95	110.10
12	A	839	CLA	C2D-C1D-ND	7.92	115.94	110.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	825	CLA	C2D-C1D-ND	7.92	115.94	110.10
12	A	842	CLA	C2D-C1D-ND	7.91	115.93	110.10
12	A	815	CLA	C2D-C1D-ND	7.90	115.92	110.10
12	B	817	CLA	C2D-C1D-ND	7.86	115.89	110.10
12	J	101	CLA	C2D-C1D-ND	7.85	115.89	110.10
12	B	827	CLA	C2D-C1D-ND	7.84	115.88	110.10
12	A	841	CLA	C2D-C1D-ND	7.84	115.88	110.10
12	B	805	CLA	C2D-C1D-ND	7.83	115.88	110.10
12	A	828	CLA	C2D-C1D-ND	7.77	115.83	110.10
11	A	801	CL0	C2D-C1D-ND	7.77	115.83	110.10
12	B	823	CLA	C1D-ND-C4D	-7.77	100.82	106.33
12	B	803	CLA	C2D-C1D-ND	7.75	115.82	110.10
12	A	810	CLA	C2D-C1D-ND	7.73	115.80	110.10
12	A	834	CLA	C2D-C1D-ND	7.72	115.79	110.10
12	A	836	CLA	C2D-C1D-ND	7.72	115.79	110.10
12	A	829	CLA	C2D-C1D-ND	7.71	115.78	110.10
12	A	832	CLA	C2D-C1D-ND	7.70	115.78	110.10
12	A	814	CLA	C2D-C1D-ND	7.69	115.77	110.10
12	A	818	CLA	C2D-C1D-ND	7.67	115.76	110.10
12	B	811	CLA	CMD-C2D-C1D	7.64	138.17	124.71
12	A	838	CLA	C2D-C1D-ND	7.64	115.73	110.10
12	A	816	CLA	C2D-C1D-ND	7.63	115.73	110.10
12	A	813	CLA	C2D-C1D-ND	7.63	115.73	110.10
12	A	809	CLA	C2D-C1D-ND	7.61	115.71	110.10
12	B	802	CLA	C2D-C1D-ND	7.59	115.70	110.10
12	A	830	CLA	C2D-C1D-ND	7.58	115.69	110.10
12	A	821	CLA	C2D-C1D-ND	7.57	115.68	110.10
12	B	815	CLA	C2D-C1D-ND	7.54	115.66	110.10
12	B	812	CLA	C2D-C1D-ND	7.50	115.63	110.10
12	B	818	CLA	C2D-C1D-ND	7.48	115.62	110.10
12	A	833	CLA	C2D-C1D-ND	7.44	115.59	110.10
12	B	814	CLA	C2D-C1D-ND	7.43	115.58	110.10
12	A	823	CLA	C2D-C1D-ND	7.42	115.57	110.10
12	A	805	CLA	C2D-C1D-ND	7.41	115.56	110.10
12	B	826	CLA	C2D-C1D-ND	7.39	115.55	110.10
12	A	837	CLA	CMD-C2D-C1D	7.36	137.68	124.71
12	A	807	CLA	C2D-C1D-ND	7.36	115.53	110.10
12	B	819	CLA	CMD-C2D-C1D	7.35	137.68	124.71
12	A	812	CLA	C2D-C1D-ND	7.35	115.52	110.10
12	B	831	CLA	C2D-C1D-ND	7.34	115.52	110.10
12	B	813	CLA	C2D-C1D-ND	7.33	115.51	110.10
12	A	826	CLA	CMD-C2D-C1D	7.31	137.60	124.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	831	CLA	C2D-C1D-ND	7.29	115.48	110.10
12	A	824	CLA	C2D-C1D-ND	7.28	115.47	110.10
12	B	822	CLA	C2D-C1D-ND	7.25	115.45	110.10
12	B	831	CLA	CMD-C2D-C1D	7.25	137.49	124.71
12	B	829	CLA	CMD-C2D-C1D	7.21	137.42	124.71
12	B	825	CLA	CMD-C2D-C1D	7.21	137.42	124.71
12	B	810	CLA	C2D-C1D-ND	7.20	115.41	110.10
12	A	803	CLA	C2D-C1D-ND	7.20	115.41	110.10
12	B	809	CLA	CHD-C4C-C3C	-7.17	114.29	124.84
12	B	832	CLA	C2D-C1D-ND	7.17	115.39	110.10
12	B	819	CLA	C2D-C1D-ND	7.16	115.38	110.10
12	A	805	CLA	CMD-C2D-C1D	7.16	137.33	124.71
12	B	801	CLA	C2D-C1D-ND	7.11	115.34	110.10
12	A	819	CLA	C2D-C1D-ND	7.06	115.31	110.10
12	A	826	CLA	C2D-C1D-ND	7.05	115.30	110.10
12	B	809	CLA	CMD-C2D-C1D	7.05	137.14	124.71
12	A	806	CLA	CMD-C2D-C1D	7.05	137.14	124.71
12	A	833	CLA	CMD-C2D-C1D	7.04	137.12	124.71
12	A	820	CLA	C2D-C1D-ND	7.04	115.29	110.10
12	F	203	CLA	C2D-C1D-ND	7.04	115.29	110.10
12	B	825	CLA	CHD-C1D-ND	-7.01	118.02	124.45
12	B	820	CLA	CMD-C2D-C1D	6.96	136.97	124.71
12	A	803	CLA	CMD-C2D-C1D	6.91	136.89	124.71
12	B	824	CLA	CMD-C2D-C1D	6.89	136.86	124.71
12	A	834	CLA	O2D-CGD-CBD	6.87	123.47	111.27
12	A	836	CLA	CMD-C2D-C1D	6.86	136.79	124.71
12	B	832	CLA	C2C-C1C-NC	6.85	116.39	109.97
12	A	820	CLA	CMD-C2D-C1D	6.84	136.77	124.71
12	A	839	CLA	O2D-CGD-CBD	6.82	123.39	111.27
12	A	836	CLA	O2D-CGD-CBD	6.82	123.38	111.27
12	A	816	CLA	CMD-C2D-C1D	6.82	136.73	124.71
12	A	814	CLA	CMD-C2D-C1D	6.81	136.71	124.71
12	L	202	CLA	CMD-C2D-C1D	6.80	136.71	124.71
12	A	818	CLA	CMD-C2D-C1D	6.80	136.70	124.71
12	A	813	CLA	CMD-C2D-C1D	6.79	136.67	124.71
12	B	816	CLA	CMD-C2D-C1D	6.78	136.66	124.71
12	B	817	CLA	CMD-C2D-C1D	6.78	136.66	124.71
12	J	101	CLA	CMD-C2D-C1D	6.78	136.66	124.71
12	A	832	CLA	CMD-C2D-C1D	6.78	136.66	124.71
12	A	839	CLA	CMD-C2D-C1D	6.77	136.65	124.71
12	A	827	CLA	CMD-C2D-C1D	6.76	136.63	124.71
12	B	828	CLA	CMD-C2D-C1D	6.76	136.63	124.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L	204	CLA	CMD-C2D-C1D	6.76	136.62	124.71
12	A	843	CLA	CMD-C2D-C1D	6.74	136.60	124.71
12	A	817	CLA	CMD-C2D-C1D	6.74	136.59	124.71
12	A	807	CLA	CMD-C2D-C1D	6.74	136.59	124.71
12	B	815	CLA	CMD-C2D-C1D	6.73	136.57	124.71
12	A	810	CLA	CMD-C2D-C1D	6.71	136.53	124.71
12	A	812	CLA	CMD-C2D-C1D	6.71	136.53	124.71
12	A	815	CLA	CMD-C2D-C1D	6.70	136.53	124.71
12	A	838	CLA	CMD-C2D-C1D	6.70	136.52	124.71
12	B	805	CLA	CMD-C2D-C1D	6.68	136.49	124.71
12	B	813	CLA	CMD-C2D-C1D	6.68	136.49	124.71
12	B	830	CLA	CMD-C2D-C1D	6.68	136.49	124.71
12	B	812	CLA	CMD-C2D-C1D	6.68	136.49	124.71
12	B	832	CLA	CMD-C2D-C1D	6.67	136.48	124.71
12	A	837	CLA	C2D-C1D-ND	6.67	115.02	110.10
12	A	830	CLA	O2D-CGD-CBD	6.67	123.11	111.27
12	B	807	CLA	CMD-C2D-C1D	6.66	136.46	124.71
12	B	820	CLA	CHD-C4C-C3C	-6.66	115.05	124.84
12	A	834	CLA	CMD-C2D-C1D	6.66	136.45	124.71
12	A	811	CLA	CMD-C2D-C1D	6.66	136.45	124.71
12	B	823	CLA	O2D-CGD-CBD	6.65	123.09	111.27
12	F	203	CLA	CMD-C2D-C1D	6.65	136.43	124.71
12	B	818	CLA	CMD-C2D-C1D	6.64	136.42	124.71
12	A	823	CLA	CMD-C2D-C1D	6.64	136.41	124.71
12	A	841	CLA	CMD-C2D-C1D	6.63	136.41	124.71
12	A	819	CLA	CMD-C2D-C1D	6.61	136.36	124.71
12	B	819	CLA	CHD-C1D-ND	-6.60	118.39	124.45
12	B	814	CLA	CMD-C2D-C1D	6.60	136.34	124.71
12	B	827	CLA	CMD-C2D-C1D	6.60	136.34	124.71
12	A	838	CLA	O2D-CGD-CBD	6.59	122.98	111.27
12	B	826	CLA	CMD-C2D-C1D	6.57	136.28	124.71
12	B	829	CLA	CHD-C1D-ND	-6.55	118.44	124.45
12	A	827	CLA	O2D-CGD-CBD	6.55	122.91	111.27
12	B	801	CLA	C2C-C1C-NC	6.54	116.09	109.97
12	A	854	CLA	O2D-CGD-CBD	6.53	122.87	111.27
12	A	821	CLA	CMD-C2D-C1D	6.53	136.21	124.71
12	B	808	CLA	CMD-C2D-C1D	6.52	136.21	124.71
12	B	824	CLA	CHD-C1D-ND	-6.51	118.47	124.45
12	L	203	CLA	CMD-C2D-C1D	6.50	136.16	124.71
12	A	804	CLA	CMD-C2D-C1D	6.49	136.16	124.71
12	A	842	CLA	CMD-C2D-C1D	6.49	136.15	124.71
12	L	203	CLA	CHD-C1D-ND	-6.46	118.52	124.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	803	CLA	CHD-C4C-C3C	-6.46	115.35	124.84
12	A	824	CLA	CMD-C2D-C1D	6.44	136.06	124.71
12	B	806	CLA	CMD-C2D-C1D	6.42	136.03	124.71
12	B	811	CLA	C2D-C1D-ND	6.42	114.84	110.10
12	A	809	CLA	CMD-C2D-C1D	6.41	136.02	124.71
12	B	808	CLA	CHD-C4C-C3C	-6.40	115.43	124.84
12	A	822	CLA	CMD-C2D-C1D	6.39	135.97	124.71
12	B	831	CLA	CHD-C1D-ND	-6.37	118.60	124.45
12	A	826	CLA	CHD-C1D-ND	-6.37	118.60	124.45
12	A	827	CLA	CHD-C4C-C3C	-6.34	115.52	124.84
12	A	831	CLA	CMD-C2D-C1D	6.32	135.86	124.71
12	L	204	CLA	CHD-C1D-ND	-6.32	118.64	124.45
12	A	828	CLA	CMD-C2D-C1D	6.24	135.72	124.71
12	A	817	CLA	CHD-C1D-ND	-6.23	118.73	124.45
12	A	806	CLA	CHD-C4C-C3C	-6.22	115.69	124.84
12	A	804	CLA	CHD-C4C-C3C	-6.22	115.70	124.84
12	A	811	CLA	CHD-C1D-ND	-6.22	118.74	124.45
12	A	822	CLA	CHD-C1D-ND	-6.20	118.75	124.45
12	B	810	CLA	C2C-C1C-NC	6.18	115.77	109.97
12	A	841	CLA	CHD-C1D-ND	-6.18	118.77	124.45
12	B	824	CLA	CAA-C2A-C3A	-6.15	95.93	112.78
12	B	816	CLA	CHD-C1D-ND	-6.14	118.81	124.45
12	A	823	CLA	C2C-C1C-NC	6.14	115.72	109.97
12	A	837	CLA	O2D-CGD-CBD	6.14	122.17	111.27
12	F	203	CLA	CHD-C1D-ND	-6.14	118.81	124.45
12	A	824	CLA	CHD-C1D-ND	-6.11	118.84	124.45
12	A	820	CLA	C2C-C1C-NC	6.10	115.69	109.97
12	A	815	CLA	CHD-C1D-ND	-6.07	118.88	124.45
12	A	854	CLA	CHD-C4C-C3C	-6.06	115.93	124.84
12	L	202	CLA	CHD-C1D-ND	-6.06	118.88	124.45
12	A	835	CLA	CMD-C2D-C1D	6.06	135.39	124.71
12	B	821	CLA	CMD-C2D-C1D	6.04	135.37	124.71
12	B	813	CLA	CHD-C1D-ND	-6.04	118.90	124.45
12	B	806	CLA	C2C-C1C-NC	6.04	115.63	109.97
12	A	833	CLA	CHD-C1D-ND	-6.03	118.91	124.45
12	A	834	CLA	CHD-C1D-ND	-6.03	118.92	124.45
12	B	801	CLA	C4A-NA-C1A	-6.03	104.00	106.71
12	A	807	CLA	CHD-C1D-ND	-6.02	118.92	124.45
12	A	804	CLA	CHD-C1D-ND	-6.02	118.92	124.45
12	A	821	CLA	CHD-C1D-ND	-6.01	118.93	124.45
12	A	805	CLA	CHD-C1D-ND	-6.00	118.94	124.45
12	B	817	CLA	CHD-C1D-ND	-5.99	118.95	124.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	804	CLA	O2D-CGD-CBD	5.99	121.91	111.27
12	B	812	CLA	CHD-C1D-ND	-5.99	118.95	124.45
12	A	832	CLA	CHD-C1D-ND	-5.98	118.95	124.45
12	A	829	CLA	CHD-C4C-C3C	-5.98	116.05	124.84
12	A	816	CLA	CHD-C1D-ND	-5.98	118.96	124.45
12	B	826	CLA	O2D-CGD-CBD	5.98	121.89	111.27
12	B	804	CLA	CHD-C4C-C3C	-5.97	116.06	124.84
12	B	826	CLA	CHD-C1D-ND	-5.97	118.97	124.45
12	B	830	CLA	CHD-C1D-ND	-5.97	118.97	124.45
12	B	828	CLA	CHD-C1D-ND	-5.96	118.97	124.45
12	A	831	CLA	O2D-CGD-CBD	5.95	121.84	111.27
12	B	818	CLA	C2C-C1C-NC	5.95	115.55	109.97
12	B	823	CLA	C2C-C1C-NC	5.95	115.55	109.97
11	A	801	CL0	CHD-C4C-C3C	-5.93	116.12	124.84
12	A	830	CLA	C2C-C1C-NC	5.93	115.53	109.97
12	B	808	CLA	CHD-C1D-ND	-5.93	119.00	124.45
12	B	813	CLA	O2D-CGD-CBD	5.93	121.80	111.27
12	B	816	CLA	C2C-C1C-NC	5.92	115.52	109.97
12	A	843	CLA	CHD-C1D-ND	-5.91	119.02	124.45
12	A	813	CLA	CHD-C1D-ND	-5.90	119.03	124.45
12	F	203	CLA	C2C-C1C-NC	5.90	115.50	109.97
12	A	838	CLA	CHD-C1D-ND	-5.89	119.04	124.45
12	B	815	CLA	CHD-C1D-ND	-5.89	119.04	124.45
12	A	828	CLA	CHD-C4C-C3C	-5.89	116.19	124.84
12	A	839	CLA	CHD-C4C-C3C	-5.89	116.19	124.84
12	A	808	CLA	CMD-C2D-C1D	5.89	135.09	124.71
12	B	801	CLA	CHD-C1D-ND	-5.88	119.05	124.45
12	B	805	CLA	CHD-C4C-C3C	-5.88	116.20	124.84
12	A	816	CLA	C2C-C1C-NC	5.88	115.48	109.97
12	A	835	CLA	C2C-C1C-NC	5.87	115.47	109.97
12	B	828	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
12	B	810	CLA	CMD-C2D-C1D	5.87	135.05	124.71
12	A	837	CLA	CHD-C1D-ND	-5.86	119.07	124.45
12	B	827	CLA	CHD-C1D-ND	-5.86	119.07	124.45
12	B	814	CLA	CHD-C4C-C3C	-5.85	116.24	124.84
12	A	810	CLA	C2C-C1C-NC	5.85	115.45	109.97
12	A	825	CLA	CHD-C4C-C3C	-5.85	116.25	124.84
12	A	814	CLA	CHD-C4C-C3C	-5.84	116.25	124.84
12	A	837	CLA	C2C-C1C-NC	5.84	115.44	109.97
12	A	814	CLA	CHD-C1D-ND	-5.84	119.09	124.45
12	B	821	CLA	CHD-C4C-C3C	-5.83	116.27	124.84
12	B	801	CLA	CMD-C2D-C1D	5.82	134.97	124.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	836	CLA	CHD-C1D-ND	-5.82	119.11	124.45
12	B	807	CLA	CHD-C4C-C3C	-5.81	116.30	124.84
12	A	817	CLA	CHD-C4C-C3C	-5.81	116.31	124.84
12	B	832	CLA	CHD-C1D-ND	-5.81	119.12	124.45
11	A	801	CL0	O2D-CGD-CBD	5.81	121.58	111.27
12	A	810	CLA	CHD-C1D-ND	-5.80	119.12	124.45
12	A	809	CLA	CHD-C4C-C3C	-5.80	116.32	124.84
12	B	832	CLA	O2D-CGD-CBD	5.79	121.55	111.27
12	A	835	CLA	CHD-C1D-ND	-5.78	119.14	124.45
12	B	815	CLA	O2D-CGD-CBD	5.78	121.54	111.27
12	A	830	CLA	CMD-C2D-C1D	5.78	134.90	124.71
12	A	806	CLA	CHD-C1D-ND	-5.77	119.16	124.45
12	B	820	CLA	C4A-NA-C1A	-5.77	104.11	106.71
12	A	812	CLA	CHD-C1D-ND	-5.76	119.16	124.45
12	B	811	CLA	C2C-C1C-NC	5.76	115.37	109.97
12	B	823	CLA	C4A-NA-C1A	-5.76	104.12	106.71
12	B	811	CLA	CHD-C1D-ND	-5.76	119.16	124.45
12	B	827	CLA	C2C-C1C-NC	5.75	115.36	109.97
12	B	817	CLA	CHD-C4C-C3C	-5.75	116.39	124.84
12	A	819	CLA	CHD-C1D-ND	-5.74	119.18	124.45
12	B	818	CLA	CHD-C1D-ND	-5.74	119.18	124.45
12	A	818	CLA	CHD-C4C-C3C	-5.73	116.42	124.84
12	A	834	CLA	C2C-C1C-NC	5.73	115.34	109.97
12	B	808	CLA	C2C-C1C-NC	5.73	115.34	109.97
12	A	821	CLA	CHD-C4C-C3C	-5.72	116.43	124.84
12	A	803	CLA	O2D-CGD-CBD	5.71	121.42	111.27
12	A	814	CLA	O2D-CGD-CBD	5.71	121.42	111.27
12	B	822	CLA	CHD-C4C-C3C	-5.71	116.45	124.84
12	A	823	CLA	CHD-C1D-ND	-5.70	119.21	124.45
12	B	819	CLA	O2D-CGD-CBD	5.70	121.40	111.27
12	B	818	CLA	CHD-C4C-C3C	-5.70	116.47	124.84
12	B	809	CLA	O2D-CGD-CBD	5.69	121.38	111.27
12	B	828	CLA	C4A-NA-C1A	-5.69	104.15	106.71
12	B	807	CLA	C2C-C1C-NC	5.68	115.30	109.97
12	A	832	CLA	CHD-C4C-C3C	-5.67	116.51	124.84
12	A	840	CLA	CHD-C4C-C3C	-5.67	116.51	124.84
12	J	101	CLA	CHD-C1D-ND	-5.66	119.25	124.45
12	A	833	CLA	CHD-C4C-C3C	-5.66	116.53	124.84
12	A	841	CLA	CHD-C4C-C3C	-5.65	116.53	124.84
12	A	802	CLA	CHD-C4C-C3C	-5.65	116.53	124.84
12	A	813	CLA	CHD-C4C-C3C	-5.65	116.53	124.84
12	A	808	CLA	CHD-C4C-C3C	-5.64	116.55	124.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	822	CLA	CHD-C4C-C3C	-5.64	116.55	124.84
12	B	807	CLA	CHD-C1D-ND	-5.63	119.28	124.45
12	B	822	CLA	CMD-C2D-C1D	5.63	134.64	124.71
12	A	820	CLA	O2D-CGD-CBD	5.63	121.28	111.27
12	A	836	CLA	C2C-C1C-NC	5.62	115.24	109.97
12	A	833	CLA	C2C-C1C-NC	5.62	115.24	109.97
12	J	101	CLA	CHD-C4C-C3C	-5.62	116.58	124.84
12	B	817	CLA	C4A-NA-C1A	-5.61	104.18	106.71
12	L	202	CLA	CHD-C4C-C3C	-5.61	116.59	124.84
12	A	819	CLA	C2C-C1C-NC	5.60	115.22	109.97
12	B	815	CLA	C2C-C1C-NC	5.60	115.22	109.97
11	A	801	CL0	C2C-C1C-NC	5.60	115.21	109.97
12	A	843	CLA	C2C-C1C-NC	5.59	115.21	109.97
12	B	830	CLA	C2C-C1C-NC	5.59	115.21	109.97
12	A	822	CLA	C2C-C1C-NC	5.58	115.20	109.97
12	B	812	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
12	L	204	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
12	A	826	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
12	A	824	CLA	C2C-C1C-NC	5.57	115.19	109.97
12	A	843	CLA	CHD-C4C-C3C	-5.57	116.65	124.84
12	B	805	CLA	CHD-C1D-ND	-5.57	119.34	124.45
12	A	803	CLA	CHD-C1D-ND	-5.56	119.34	124.45
12	A	811	CLA	C2C-C1C-NC	5.56	115.18	109.97
12	A	839	CLA	C2C-C1C-NC	5.56	115.18	109.97
12	A	835	CLA	CHD-C4C-C3C	-5.56	116.67	124.84
12	A	805	CLA	O2D-CGD-CBD	5.56	121.15	111.27
12	B	818	CLA	C4A-NA-C1A	-5.56	104.21	106.71
12	B	831	CLA	C2C-C1C-NC	5.56	115.18	109.97
12	A	825	CLA	C2C-C1C-NC	5.55	115.17	109.97
12	A	842	CLA	CHD-C4C-C3C	-5.54	116.69	124.84
12	B	803	CLA	CMD-C2D-C1D	5.54	134.47	124.71
12	L	202	CLA	C2C-C1C-NC	5.53	115.15	109.97
12	A	810	CLA	CHD-C4C-C3C	-5.52	116.72	124.84
12	A	830	CLA	CHD-C1D-ND	-5.52	119.38	124.45
12	B	822	CLA	C2C-C1C-NC	5.52	115.14	109.97
12	A	806	CLA	O2D-CGD-CBD	5.52	121.08	111.27
12	B	819	CLA	C4A-NA-C1A	-5.52	104.23	106.71
12	B	821	CLA	CHD-C1D-ND	-5.52	119.39	124.45
12	A	802	CLA	CHD-C1D-ND	-5.51	119.39	124.45
12	B	825	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
12	A	826	CLA	C4A-NA-C1A	-5.50	104.23	106.71
12	A	807	CLA	C2C-C1C-NC	5.50	115.12	109.97

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	802	CLA	CHD-C4C-C3C	-5.50	116.76	124.84
12	B	820	CLA	O2D-CGD-CBD	5.50	121.04	111.27
12	B	825	CLA	O2D-CGD-CBD	5.50	121.04	111.27
12	A	831	CLA	CHD-C1D-ND	-5.50	119.40	124.45
12	A	808	CLA	CHD-C1D-ND	-5.49	119.41	124.45
12	A	809	CLA	C2C-C1C-NC	5.49	115.12	109.97
12	B	823	CLA	CHD-C1D-ND	-5.49	119.41	124.45
12	A	815	CLA	C2C-C1C-NC	5.48	115.10	109.97
12	A	817	CLA	C2C-C1C-NC	5.47	115.10	109.97
12	A	843	CLA	O2D-CGD-CBD	5.47	120.98	111.27
12	A	831	CLA	C2C-C1C-NC	5.47	115.09	109.97
12	B	816	CLA	CHD-C4C-C3C	-5.45	116.82	124.84
12	A	815	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
12	A	805	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
12	A	812	CLA	C2C-C1C-NC	5.45	115.08	109.97
12	B	814	CLA	CHD-C1D-ND	-5.45	119.45	124.45
12	B	829	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
12	A	854	CLA	C2C-C1C-NC	5.44	115.07	109.97
12	B	826	CLA	C2C-C1C-NC	5.44	115.07	109.97
12	B	820	CLA	CHD-C1D-ND	-5.44	119.46	124.45
12	B	830	CLA	CHD-C4C-C3C	-5.43	116.86	124.84
12	A	842	CLA	CHD-C1D-ND	-5.42	119.47	124.45
12	A	836	CLA	CHD-C4C-C3C	-5.42	116.88	124.84
12	A	803	CLA	CHD-C4C-C3C	-5.42	116.88	124.84
12	B	827	CLA	CHD-C4C-C3C	-5.40	116.90	124.84
12	A	818	CLA	CHD-C1D-ND	-5.39	119.50	124.45
12	B	805	CLA	O2D-CGD-CBD	5.39	120.85	111.27
12	A	806	CLA	C2C-C1C-NC	5.38	115.02	109.97
12	A	842	CLA	C2C-C1C-NC	5.38	115.01	109.97
12	A	823	CLA	CHD-C4C-C3C	-5.38	116.94	124.84
12	B	801	CLA	CHD-C4C-C3C	-5.38	116.94	124.84
12	A	827	CLA	CHD-C1D-ND	-5.37	119.52	124.45
12	A	820	CLA	CHD-C1D-ND	-5.37	119.52	124.45
12	A	831	CLA	CHD-C4C-C3C	-5.37	116.95	124.84
12	B	825	CLA	C3D-C2D-C1D	-5.37	98.51	105.83
12	B	824	CLA	CHD-C4C-C3C	-5.37	116.95	124.84
12	A	824	CLA	O2D-CGD-CBD	5.36	120.79	111.27
12	A	822	CLA	O2D-CGD-CBD	5.36	120.79	111.27
12	L	203	CLA	CHD-C4C-C3C	-5.36	116.97	124.84
12	B	808	CLA	O2D-CGD-CBD	5.35	120.78	111.27
12	B	824	CLA	C4A-NA-C1A	-5.35	104.30	106.71
12	B	809	CLA	CHD-C1D-ND	-5.35	119.54	124.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	839	CLA	CHD-C1D-ND	-5.35	119.54	124.45
12	A	834	CLA	CHD-C4C-C3C	-5.34	116.98	124.84
12	A	840	CLA	C2C-C1C-NC	5.34	114.98	109.97
12	B	813	CLA	CHD-C4C-C3C	-5.33	117.01	124.84
12	A	838	CLA	CHD-C4C-C3C	-5.32	117.02	124.84
12	L	203	CLA	C2C-C1C-NC	5.32	114.96	109.97
11	A	801	CL0	CMD-C2D-C1D	5.32	134.09	124.71
12	B	831	CLA	CHD-C4C-C3C	-5.31	117.03	124.84
12	B	802	CLA	CMD-C2D-C1D	5.31	134.06	124.71
12	A	811	CLA	CHD-C4C-C3C	-5.30	117.05	124.84
12	A	837	CLA	CHD-C4C-C3C	-5.30	117.05	124.84
12	B	806	CLA	CHD-C1D-ND	-5.29	119.59	124.45
12	B	813	CLA	C4A-NA-C1A	-5.29	104.33	106.71
12	A	812	CLA	CHD-C4C-C3C	-5.27	117.09	124.84
12	A	828	CLA	CHD-C1D-ND	-5.27	119.61	124.45
12	B	805	CLA	C2C-C1C-NC	5.27	114.91	109.97
12	B	809	CLA	C2C-C1C-NC	5.27	114.91	109.97
12	B	804	CLA	CHD-C1D-ND	-5.26	119.62	124.45
12	A	829	CLA	C2C-C1C-NC	5.26	114.90	109.97
12	B	815	CLA	CHD-C4C-C3C	-5.26	117.11	124.84
12	A	832	CLA	O2D-CGD-CBD	5.25	120.60	111.27
12	A	838	CLA	C2C-C1C-NC	5.25	114.89	109.97
12	A	841	CLA	C2C-C1C-NC	5.24	114.88	109.97
12	B	806	CLA	CHD-C4C-C3C	-5.24	117.14	124.84
12	A	816	CLA	CHD-C4C-C3C	-5.24	117.14	124.84
12	A	825	CLA	CMD-C2D-C1D	5.23	133.93	124.71
12	A	830	CLA	CHD-C4C-C3C	-5.22	117.16	124.84
12	B	812	CLA	C2C-C1C-NC	5.22	114.86	109.97
12	J	101	CLA	O2D-CGD-CBD	5.22	120.54	111.27
12	B	810	CLA	CHD-C1D-ND	-5.22	119.66	124.45
12	A	829	CLA	CMD-C2D-C1D	5.21	133.90	124.71
12	B	827	CLA	O2D-CGD-CBD	5.21	120.52	111.27
12	A	807	CLA	CHD-C4C-C3C	-5.20	117.19	124.84
12	A	840	CLA	CHD-C1D-ND	-5.20	119.68	124.45
12	B	803	CLA	C2C-C1C-NC	5.19	114.84	109.97
12	A	808	CLA	C2C-C1C-NC	5.19	114.84	109.97
12	A	854	CLA	C4A-NA-C1A	-5.19	104.37	106.71
12	B	826	CLA	CHD-C4C-C3C	-5.19	117.21	124.84
12	F	203	CLA	C4A-NA-C1A	-5.18	104.38	106.71
12	B	828	CLA	C2C-C1C-NC	5.18	114.82	109.97
12	L	204	CLA	O2D-CGD-CBD	5.17	120.46	111.27
12	A	841	CLA	C4A-NA-C1A	-5.17	104.38	106.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	828	CLA	C2C-C1C-NC	5.17	114.81	109.97
12	B	825	CLA	C4A-NA-C1A	-5.16	104.38	106.71
12	B	828	CLA	O2D-CGD-CBD	5.16	120.44	111.27
12	A	803	CLA	C2C-C1C-NC	5.16	114.80	109.97
12	B	802	CLA	C2C-C1C-NC	5.14	114.78	109.97
12	B	802	CLA	CHD-C1D-ND	-5.14	119.73	124.45
12	B	807	CLA	O2D-CGD-CBD	5.12	120.36	111.27
12	A	819	CLA	CHD-C4C-C3C	-5.11	117.33	124.84
12	B	820	CLA	C3D-C2D-C1D	-5.11	98.86	105.83
12	A	809	CLA	CHD-C1D-ND	-5.11	119.76	124.45
12	A	829	CLA	C4A-NA-C1A	-5.10	104.41	106.71
12	B	819	CLA	CHD-C4C-C3C	-5.10	117.34	124.84
12	A	819	CLA	C4A-NA-C1A	-5.10	104.42	106.71
12	A	832	CLA	C2C-C1C-NC	5.09	114.74	109.97
12	A	828	CLA	O2D-CGD-CBD	5.09	120.31	111.27
12	B	822	CLA	C4A-NA-C1A	-5.08	104.42	106.71
12	A	821	CLA	O2D-CGD-CBD	5.08	120.30	111.27
12	B	829	CLA	C2C-C1C-NC	5.08	114.73	109.97
12	A	832	CLA	C4A-NA-C1A	-5.08	104.42	106.71
12	A	824	CLA	CHD-C4C-C3C	-5.08	117.38	124.84
12	A	820	CLA	CHD-C4C-C3C	-5.07	117.38	124.84
12	B	804	CLA	CAC-C3C-C4C	5.07	131.38	124.81
12	B	801	CLA	O2D-CGD-CBD	5.06	120.27	111.27
12	B	831	CLA	C4A-NA-C1A	-5.06	104.43	106.71
12	B	811	CLA	CHD-C4C-C3C	-5.05	117.42	124.84
12	J	101	CLA	C2C-C1C-NC	5.05	114.70	109.97
12	A	840	CLA	CMD-C2D-C1D	5.05	133.60	124.71
12	B	829	CLA	C3D-C2D-C1D	-5.04	98.95	105.83
12	F	203	CLA	CHD-C4C-C3C	-5.04	117.44	124.84
12	B	806	CLA	O2D-CGD-CBD	5.01	120.18	111.27
12	B	812	CLA	O2D-CGD-CBD	5.01	120.17	111.27
12	A	854	CLA	C3C-C4C-NC	5.01	116.19	110.57
12	A	813	CLA	C4A-NA-C1A	-5.00	104.46	106.71
12	B	808	CLA	C3D-C2D-C1D	-5.00	99.01	105.83
12	B	824	CLA	C2C-C1C-NC	5.00	114.66	109.97
12	A	807	CLA	C4A-NA-C1A	-5.00	104.46	106.71
12	B	814	CLA	C2C-C1C-NC	4.99	114.65	109.97
12	B	825	CLA	C2C-C1C-NC	4.98	114.64	109.97
12	B	830	CLA	O2D-CGD-CBD	4.98	120.12	111.27
12	L	202	CLA	O2D-CGD-CBD	4.98	120.11	111.27
12	A	827	CLA	C3D-C2D-C1D	-4.97	99.04	105.83
12	A	806	CLA	C3D-C2D-C1D	-4.97	99.05	105.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	814	CLA	O2D-CGD-CBD	4.96	120.08	111.27
12	L	203	CLA	C3D-C2D-C1D	-4.96	99.06	105.83
12	B	816	CLA	O2D-CGD-CBD	4.96	120.08	111.27
12	A	818	CLA	C2C-C1C-NC	4.95	114.61	109.97
12	L	203	CLA	O2D-CGD-CBD	4.94	120.05	111.27
12	A	805	CLA	C2C-C1C-NC	4.94	114.60	109.97
12	F	203	CLA	O2D-CGD-CBD	4.94	120.04	111.27
12	A	802	CLA	CMB-C2B-C3B	4.93	133.91	124.68
12	B	810	CLA	CHD-C4C-C3C	-4.93	117.59	124.84
12	A	808	CLA	O2D-CGD-CBD	4.93	120.03	111.27
12	B	821	CLA	C3D-C2D-C1D	-4.93	99.11	105.83
12	L	204	CLA	C4A-NA-C1A	-4.93	104.49	106.71
12	A	802	CLA	CMD-C2D-C1D	4.93	133.40	124.71
12	B	812	CLA	C4A-NA-C1A	-4.92	104.49	106.71
12	B	817	CLA	C2C-C1C-NC	4.91	114.57	109.97
12	A	837	CLA	C4A-NA-C1A	-4.90	104.50	106.71
12	A	812	CLA	O2D-CGD-CBD	4.89	119.96	111.27
12	B	821	CLA	C4A-NA-C1A	-4.88	104.51	106.71
12	B	804	CLA	C3D-C2D-C1D	-4.87	99.18	105.83
12	B	832	CLA	CHD-C4C-C3C	-4.87	117.68	124.84
12	B	821	CLA	C2C-C1C-NC	4.87	114.53	109.97
12	A	826	CLA	C2C-C1C-NC	4.87	114.53	109.97
12	A	804	CLA	C3D-C2D-C1D	-4.86	99.20	105.83
12	A	814	CLA	C2C-C1C-NC	4.85	114.51	109.97
12	A	823	CLA	C4A-NA-C1A	-4.84	104.53	106.71
12	A	841	CLA	O2D-CGD-CBD	4.84	119.86	111.27
12	A	842	CLA	O2D-CGD-CBD	4.83	119.86	111.27
12	B	813	CLA	C2C-C1C-NC	4.83	114.50	109.97
12	A	815	CLA	O2D-CGD-CBD	4.82	119.83	111.27
12	B	817	CLA	C3D-C2D-C1D	-4.81	99.27	105.83
12	B	828	CLA	C3D-C2D-C1D	-4.80	99.28	105.83
12	B	819	CLA	CAA-C2A-C3A	-4.79	99.67	112.78
12	A	813	CLA	C2C-C1C-NC	4.79	114.45	109.97
12	L	204	CLA	C2C-C1C-NC	4.79	114.45	109.97
12	A	854	CLA	CHD-C1D-ND	-4.78	120.06	124.45
12	B	817	CLA	O2D-CGD-CBD	4.78	119.76	111.27
12	B	807	CLA	C3D-C2D-C1D	-4.77	99.32	105.83
12	A	835	CLA	C4A-NA-C1A	-4.77	104.56	106.71
12	A	808	CLA	C3D-C2D-C1D	-4.76	99.33	105.83
12	A	827	CLA	C2C-C1C-NC	4.76	114.44	109.97
12	L	202	CLA	C3D-C2D-C1D	-4.76	99.34	105.83
12	A	840	CLA	C4A-NA-C1A	-4.76	104.57	106.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	824	CLA	C3D-C2D-C1D	-4.76	99.34	105.83
12	A	811	CLA	O2D-CGD-CBD	4.75	119.70	111.27
12	B	818	CLA	O2D-CGD-CBD	4.74	119.70	111.27
12	B	821	CLA	O2D-CGD-CBD	4.74	119.69	111.27
12	B	824	CLA	O2D-CGD-CBD	4.73	119.67	111.27
12	A	813	CLA	C3D-C2D-C1D	-4.72	99.39	105.83
12	A	833	CLA	C4A-NA-C1A	-4.72	104.58	106.71
12	A	834	CLA	C3D-C2D-C1D	-4.71	99.40	105.83
12	J	101	CLA	C3D-C2D-C1D	-4.71	99.40	105.83
12	L	204	CLA	C3D-C2D-C1D	-4.70	99.41	105.83
11	A	801	CL0	C4A-NA-C1A	-4.70	104.59	106.71
12	A	830	CLA	C4A-NA-C1A	-4.70	104.59	106.71
12	A	829	CLA	CHD-C1D-ND	-4.70	120.14	124.45
12	B	806	CLA	C3D-C2D-C1D	-4.69	99.43	105.83
12	A	818	CLA	C4A-NA-C1A	-4.69	104.60	106.71
12	A	827	CLA	C4A-NA-C1A	-4.69	104.60	106.71
12	B	804	CLA	CMD-C2D-C1D	4.69	132.97	124.71
12	B	830	CLA	C3D-C2D-C1D	-4.68	99.44	105.83
12	A	841	CLA	C3D-C2D-C1D	-4.68	99.45	105.83
12	A	843	CLA	C3D-C2D-C1D	-4.67	99.46	105.83
12	A	822	CLA	C3D-C2D-C1D	-4.67	99.46	105.83
12	A	803	CLA	C4A-NA-C1A	-4.67	104.61	106.71
12	A	821	CLA	C2C-C1C-NC	4.66	114.34	109.97
12	B	803	CLA	C1D-CHD-C4C	-4.66	116.01	126.06
12	A	806	CLA	CAA-C2A-C3A	-4.65	100.03	112.78
12	A	802	CLA	C3D-C2D-C1D	-4.65	99.48	105.83
12	A	814	CLA	C3D-C2D-C1D	-4.65	99.49	105.83
12	B	806	CLA	CAC-C3C-C4C	4.65	130.84	124.81
12	B	818	CLA	C3D-C2D-C1D	-4.64	99.50	105.83
12	A	824	CLA	C4A-NA-C1A	-4.64	104.62	106.71
12	B	816	CLA	C3D-C2D-C1D	-4.64	99.50	105.83
12	A	815	CLA	C3D-C2D-C1D	-4.63	99.51	105.83
12	A	818	CLA	C3D-C2D-C1D	-4.63	99.51	105.83
12	A	802	CLA	O2D-CGD-CBD	4.63	119.49	111.27
12	A	838	CLA	C3D-C2D-C1D	-4.62	99.53	105.83
12	A	810	CLA	O2D-CGD-CBD	4.62	119.47	111.27
12	B	826	CLA	C4A-NA-C1A	-4.62	104.63	106.71
12	B	809	CLA	C3D-C2D-C1D	-4.62	99.53	105.83
12	B	820	CLA	C2C-C1C-NC	4.62	114.30	109.97
12	A	811	CLA	C3D-C2D-C1D	-4.61	99.53	105.83
12	B	802	CLA	O2D-CGD-CBD	4.61	119.47	111.27
12	A	828	CLA	C3D-C2D-C1D	-4.61	99.54	105.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	854	CLA	C3D-C2D-C1D	-4.61	99.54	105.83
12	B	822	CLA	CHD-C1D-ND	-4.61	120.22	124.45
12	A	825	CLA	C3C-C4C-NC	4.61	115.74	110.57
12	B	832	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
12	B	815	CLA	C3D-C2D-C1D	-4.59	99.56	105.83
12	A	836	CLA	C3D-C2D-C1D	-4.59	99.56	105.83
12	A	804	CLA	C4A-NA-C1A	-4.59	104.64	106.71
12	B	823	CLA	C2D-C1D-ND	4.58	113.48	110.10
12	A	832	CLA	C3D-C2D-C1D	-4.58	99.58	105.83
12	A	817	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
12	A	817	CLA	O2D-CGD-CBD	4.57	119.39	111.27
12	A	810	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
12	A	839	CLA	C3D-C2D-C1D	-4.57	99.60	105.83
12	B	829	CLA	O2D-CGD-CBD	4.56	119.37	111.27
12	B	805	CLA	C3D-C2D-C1D	-4.56	99.61	105.83
12	A	807	CLA	O2D-CGD-CBD	4.55	119.35	111.27
12	A	818	CLA	O2D-CGD-CBD	4.54	119.34	111.27
12	A	816	CLA	C3D-C2D-C1D	-4.54	99.64	105.83
11	A	801	CL0	CHD-C1D-ND	-4.53	120.29	124.45
12	B	809	CLA	C1D-CHD-C4C	-4.53	116.29	126.06
12	A	819	CLA	O2D-CGD-CBD	4.53	119.31	111.27
12	A	817	CLA	C4A-NA-C1A	-4.52	104.67	106.71
12	B	801	CLA	CAA-C2A-C3A	-4.52	100.40	112.78
12	B	808	CLA	C4A-NA-C1A	-4.52	104.67	106.71
12	A	825	CLA	C4A-NA-C1A	-4.52	104.68	106.71
12	A	829	CLA	C3C-C4C-NC	4.50	115.62	110.57
12	A	807	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
12	A	842	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
12	A	823	CLA	O2D-CGD-CBD	4.49	119.25	111.27
12	A	802	CLA	C2C-C1C-NC	4.49	114.18	109.97
12	B	827	CLA	C3D-C2D-C1D	-4.48	99.71	105.83
12	A	838	CLA	C4A-NA-C1A	-4.48	104.69	106.71
12	A	808	CLA	C4A-NA-C1A	-4.48	104.69	106.71
12	A	840	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
12	A	820	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
12	A	804	CLA	C2C-C1C-NC	4.47	114.16	109.97
12	B	813	CLA	C3D-C2D-C1D	-4.47	99.74	105.83
12	A	833	CLA	C3D-C2D-C1D	-4.46	99.74	105.83
12	B	819	CLA	C2C-C1C-NC	4.45	114.14	109.97
12	A	830	CLA	C3D-C2D-C1D	-4.45	99.76	105.83
12	A	810	CLA	C4A-NA-C1A	-4.45	104.70	106.71
12	A	825	CLA	CHD-C1D-ND	-4.45	120.36	124.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	812	CLA	C3D-C2D-C1D	-4.45	99.76	105.83
12	A	821	CLA	C4A-NA-C1A	-4.45	104.71	106.71
12	B	830	CLA	C4A-NA-C1A	-4.45	104.71	106.71
12	A	835	CLA	C3D-C2D-C1D	-4.45	99.76	105.83
12	A	821	CLA	C3D-C2D-C1D	-4.44	99.77	105.83
12	A	826	CLA	CAA-C2A-C3A	-4.43	100.64	112.78
12	A	812	CLA	C4A-NA-C1A	-4.43	104.71	106.71
12	F	203	CLA	C3D-C2D-C1D	-4.43	99.78	105.83
12	B	803	CLA	C4-C3-C5	4.43	122.72	115.27
12	A	803	CLA	C3D-C2D-C1D	-4.43	99.78	105.83
12	B	812	CLA	C3D-C2D-C1D	-4.43	99.79	105.83
12	B	832	CLA	C3D-C2D-C1D	-4.43	99.79	105.83
12	B	823	CLA	CHD-C4C-C3C	-4.42	118.34	124.84
12	A	802	CLA	C4A-NA-C1A	-4.42	104.72	106.71
12	A	828	CLA	C4A-NA-C1A	-4.42	104.72	106.71
12	A	806	CLA	C4A-NA-C1A	-4.41	104.72	106.71
12	B	807	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
12	A	805	CLA	C3D-C2D-C1D	-4.40	99.83	105.83
12	L	203	CLA	C3D-C4D-ND	4.40	117.35	110.24
12	B	825	CLA	C3D-C4D-ND	4.40	117.35	110.24
12	A	824	CLA	C3D-C2D-C1D	-4.40	99.83	105.83
12	B	815	CLA	C4A-NA-C1A	-4.40	104.73	106.71
12	A	817	CLA	C3D-C4D-ND	4.39	117.33	110.24
12	A	811	CLA	C4A-NA-C1A	-4.39	104.73	106.71
12	B	831	CLA	O2D-CGD-CBD	4.38	119.06	111.27
12	A	816	CLA	O2D-CGD-CBD	4.38	119.06	111.27
12	B	802	CLA	C4A-NA-C1A	-4.38	104.74	106.71
12	A	823	CLA	C3D-C2D-C1D	-4.38	99.86	105.83
12	A	822	CLA	C3D-C4D-ND	4.37	117.31	110.24
12	A	829	CLA	O2D-CGD-CBD	4.37	119.03	111.27
12	A	822	CLA	C1C-C2C-C3C	-4.37	102.37	106.96
12	A	826	CLA	O2D-CGD-CBD	4.36	119.02	111.27
12	B	810	CLA	C3D-C2D-C1D	-4.36	99.88	105.83
12	A	819	CLA	C3D-C2D-C1D	-4.36	99.88	105.83
12	L	204	CLA	C3D-C4D-ND	4.36	117.29	110.24
12	B	819	CLA	C3D-C4D-ND	4.35	117.28	110.24
12	A	814	CLA	C4A-NA-C1A	-4.35	104.75	106.71
12	B	831	CLA	C3D-C2D-C1D	-4.34	99.90	105.83
12	B	810	CLA	O2D-CGD-CBD	4.34	118.99	111.27
12	A	837	CLA	C3D-C2D-C1D	-4.34	99.90	105.83
12	B	821	CLA	CAC-C3C-C4C	4.34	130.44	124.81
12	B	824	CLA	C3D-C4D-ND	4.33	117.25	110.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	832	CLA	C3D-C4D-ND	4.33	117.24	110.24
12	B	801	CLA	C1C-C2C-C3C	-4.32	102.42	106.96
12	B	831	CLA	C3D-C4D-ND	4.31	117.21	110.24
12	A	835	CLA	O2D-CGD-CBD	4.31	118.93	111.27
12	A	809	CLA	C3D-C2D-C1D	-4.31	99.95	105.83
12	B	827	CLA	C4A-NA-C1A	-4.31	104.77	106.71
12	A	827	CLA	C1D-CHD-C4C	-4.31	116.76	126.06
11	A	801	CL0	CAA-C2A-C3A	-4.31	100.99	112.78
12	A	821	CLA	C3D-C4D-ND	4.30	117.20	110.24
12	A	826	CLA	C3D-C2D-C1D	-4.30	99.97	105.83
12	A	835	CLA	C3D-C4D-ND	4.29	117.17	110.24
12	A	836	CLA	C4A-NA-C1A	-4.29	104.78	106.71
12	B	813	CLA	CAC-C3C-C4C	4.28	130.37	124.81
12	B	827	CLA	C3D-C4D-ND	4.28	117.17	110.24
12	B	819	CLA	C3D-C2D-C1D	-4.28	100.00	105.83
12	A	813	CLA	O2D-CGD-CBD	4.27	118.86	111.27
12	A	831	CLA	C3D-C2D-C1D	-4.27	100.00	105.83
12	B	826	CLA	C3D-C2D-C1D	-4.27	100.00	105.83
12	B	803	CLA	CHD-C1D-ND	-4.27	120.53	124.45
12	A	809	CLA	C1D-CHD-C4C	-4.26	116.86	126.06
12	B	801	CLA	C3D-C2D-C1D	-4.26	100.02	105.83
12	B	830	CLA	C3D-C4D-ND	4.26	117.13	110.24
12	L	202	CLA	C4A-NA-C1A	-4.26	104.79	106.71
12	B	818	CLA	C1C-C2C-C3C	-4.25	102.49	106.96
12	B	816	CLA	C3D-C4D-ND	4.25	117.11	110.24
12	A	815	CLA	C3D-C4D-ND	4.25	117.11	110.24
12	A	825	CLA	C3D-C2D-C1D	-4.25	100.04	105.83
12	B	820	CLA	C3C-C4C-NC	4.25	115.33	110.57
12	A	826	CLA	C3D-C4D-ND	4.24	117.09	110.24
12	B	826	CLA	C3D-C4D-ND	4.24	117.09	110.24
12	A	832	CLA	CAA-C2A-C3A	-4.23	101.20	112.78
12	A	811	CLA	C3D-C4D-ND	4.23	117.08	110.24
12	A	817	CLA	C3C-C4C-NC	4.22	115.31	110.57
12	B	822	CLA	C3D-C4D-ND	4.21	117.06	110.24
12	A	825	CLA	O2D-CGD-CBD	4.21	118.75	111.27
12	B	810	CLA	C1C-C2C-C3C	-4.21	102.53	106.96
12	B	812	CLA	C3D-C4D-ND	4.21	117.04	110.24
12	A	806	CLA	C1D-CHD-C4C	-4.21	116.98	126.06
12	A	820	CLA	C1C-C2C-C3C	-4.20	102.54	106.96
12	A	835	CLA	C3C-C4C-NC	4.20	115.28	110.57
12	B	801	CLA	C3B-C4B-NB	4.20	114.64	109.21
12	A	828	CLA	C3C-C4C-NC	4.20	115.28	110.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	831	CLA	C4A-NA-C1A	-4.18	104.83	106.71
12	B	811	CLA	CAC-C3C-C4C	4.18	130.24	124.81
12	A	806	CLA	C1C-C2C-C3C	-4.18	102.56	106.96
12	B	808	CLA	C1C-C2C-C3C	-4.18	102.56	106.96
16	A	852	LHG	O4-P-O5	4.18	132.90	112.24
12	B	801	CLA	C1D-CHD-C4C	-4.18	117.04	126.06
12	B	816	CLA	C3B-C4B-NB	4.18	114.61	109.21
12	A	827	CLA	C3C-C4C-NC	4.17	115.25	110.57
12	A	841	CLA	C3D-C4D-ND	4.17	116.99	110.24
12	B	806	CLA	C3B-C4B-NB	4.17	114.60	109.21
12	A	834	CLA	C4A-NA-C1A	-4.17	104.83	106.71
12	B	804	CLA	C3C-C4C-NC	4.16	115.24	110.57
12	B	802	CLA	C3D-C2D-C1D	-4.16	100.15	105.83
12	B	819	CLA	CMB-C2B-C3B	4.16	132.46	124.68
12	A	823	CLA	C3D-C4D-ND	4.16	116.97	110.24
12	B	803	CLA	C3D-C2D-C1D	-4.16	100.16	105.83
12	B	804	CLA	C1D-CHD-C4C	-4.15	117.09	126.06
12	A	816	CLA	C3D-C4D-ND	4.15	116.95	110.24
12	B	814	CLA	C3D-C4D-ND	4.15	116.95	110.24
12	L	202	CLA	C3D-C4D-ND	4.15	116.95	110.24
12	B	808	CLA	C3C-C4C-NC	4.14	115.22	110.57
12	A	805	CLA	C3D-C4D-ND	4.14	116.94	110.24
12	B	811	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
12	B	802	CLA	C3D-C4D-ND	4.14	116.93	110.24
12	B	822	CLA	O2D-CGD-CBD	4.14	118.62	111.27
11	A	801	CL0	C3C-C4C-NC	4.13	115.21	110.57
12	A	809	CLA	C3C-C4C-NC	4.13	115.20	110.57
12	A	831	CLA	C3D-C4D-ND	4.13	116.92	110.24
12	A	824	CLA	C3D-C4D-ND	4.13	116.91	110.24
12	B	814	CLA	C3D-C2D-C1D	-4.11	100.22	105.83
12	B	820	CLA	CAA-C2A-C3A	-4.11	101.51	112.78
12	A	833	CLA	O2D-CGD-CBD	4.11	118.57	111.27
12	A	838	CLA	C3D-C4D-ND	4.11	116.89	110.24
12	A	807	CLA	C3D-C4D-ND	4.11	116.88	110.24
12	A	842	CLA	C4A-NA-C1A	-4.11	104.86	106.71
11	A	801	CL0	C3D-C2D-C1D	-4.10	100.23	105.83
12	B	803	CLA	C3C-C4C-NC	4.10	115.17	110.57
12	A	834	CLA	C3D-C4D-ND	4.10	116.87	110.24
12	A	809	CLA	C3D-C4D-ND	4.10	116.87	110.24
12	A	840	CLA	C3C-C4C-NC	4.10	115.17	110.57
12	A	833	CLA	C3D-C4D-ND	4.10	116.86	110.24
12	B	801	CLA	C3D-C4D-ND	4.10	116.86	110.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	812	CLA	C3D-C4D-ND	4.09	116.86	110.24
12	A	817	CLA	C1D-CHD-C4C	-4.09	117.23	126.06
12	A	825	CLA	CAC-C3C-C4C	4.09	130.12	124.81
16	A	853	LHG	O4-P-O5	4.09	132.46	112.24
12	A	804	CLA	C3C-C4C-NC	4.09	115.15	110.57
12	A	835	CLA	C1D-CHD-C4C	-4.09	117.25	126.06
12	B	807	CLA	C1D-CHD-C4C	-4.08	117.25	126.06
12	A	818	CLA	C1D-CHD-C4C	-4.08	117.25	126.06
12	B	822	CLA	C3C-C4C-NC	4.08	115.15	110.57
12	A	829	CLA	C3D-C2D-C1D	-4.08	100.26	105.83
12	A	834	CLA	O2D-CGD-O1D	-4.08	115.86	123.84
12	A	839	CLA	C3D-C4D-ND	4.08	116.83	110.24
12	A	842	CLA	C3C-C4C-NC	4.08	115.14	110.57
12	B	823	CLA	C3D-C4D-ND	4.07	116.83	110.24
11	A	801	CL0	C3D-C4D-ND	4.07	116.82	110.24
12	B	813	CLA	C3D-C4D-ND	4.07	116.82	110.24
12	A	823	CLA	C1C-C2C-C3C	-4.06	102.68	106.96
12	A	803	CLA	C1D-CHD-C4C	-4.06	117.29	126.06
12	B	820	CLA	C1D-CHD-C4C	-4.06	117.30	126.06
12	B	822	CLA	C1D-CHD-C4C	-4.06	117.30	126.06
12	A	816	CLA	C1C-C2C-C3C	-4.06	102.69	106.96
12	B	828	CLA	C3D-C4D-ND	4.05	116.80	110.24
12	A	839	CLA	C1D-CHD-C4C	-4.05	117.32	126.06
12	B	829	CLA	C3D-C4D-ND	4.05	116.79	110.24
12	A	837	CLA	C1D-CHD-C4C	-4.04	117.34	126.06
12	B	816	CLA	C4A-NA-C1A	-4.04	104.89	106.71
12	A	810	CLA	C1C-C2C-C3C	-4.04	102.71	106.96
12	F	203	CLA	C3D-C4D-ND	4.04	116.77	110.24
12	J	101	CLA	C3D-C4D-ND	4.04	116.77	110.24
12	A	802	CLA	C3D-C4D-ND	4.04	116.77	110.24
12	A	842	CLA	C3D-C4D-ND	4.03	116.76	110.24
12	A	813	CLA	C3C-C4C-NC	4.03	115.09	110.57
12	B	815	CLA	C1D-CHD-C4C	-4.03	117.36	126.06
12	A	811	CLA	C1D-CHD-C4C	-4.03	117.36	126.06
12	B	832	CLA	C3B-C4B-NB	4.03	114.42	109.21
12	B	801	CLA	C3C-C4C-NC	4.03	115.09	110.57
12	B	815	CLA	C3D-C4D-ND	4.03	116.75	110.24
12	B	817	CLA	C3D-C4D-ND	4.03	116.75	110.24
12	A	829	CLA	C3D-C4D-ND	4.02	116.75	110.24
12	A	830	CLA	C1D-CHD-C4C	-4.02	117.38	126.06
12	A	843	CLA	C3D-C4D-ND	4.02	116.74	110.24
12	B	814	CLA	C4A-NA-C1A	-4.02	104.90	106.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	803	CLA	C3D-C4D-ND	4.02	116.74	110.24
12	A	818	CLA	C3D-C4D-ND	4.01	116.73	110.24
12	B	802	CLA	C3C-C4C-NC	4.01	115.07	110.57
12	A	825	CLA	C1D-CHD-C4C	-4.01	117.41	126.06
12	A	840	CLA	C3D-C4D-ND	4.01	116.72	110.24
11	A	801	CL0	C1D-CHD-C4C	-4.01	117.41	126.06
12	B	804	CLA	C4C-C3C-C2C	-4.01	101.06	106.90
12	B	825	CLA	C3C-C4C-NC	4.01	115.06	110.57
12	B	809	CLA	C3C-C4C-NC	4.01	115.06	110.57
12	A	836	CLA	C3D-C4D-ND	4.00	116.72	110.24
12	L	202	CLA	C1D-CHD-C4C	-4.00	117.42	126.06
12	B	809	CLA	C3D-C4D-ND	4.00	116.70	110.24
12	A	820	CLA	C4A-NA-C1A	-4.00	104.91	106.71
12	B	814	CLA	C1D-CHD-C4C	-4.00	117.44	126.06
12	B	832	CLA	C3D-C4D-ND	4.00	116.70	110.24
12	A	822	CLA	C1D-CHD-C4C	-3.99	117.44	126.06
12	A	804	CLA	C3D-C4D-ND	3.99	116.70	110.24
12	A	810	CLA	C3D-C4D-ND	3.99	116.70	110.24
12	B	823	CLA	CMD-C2D-C3D	-3.99	118.43	127.61
12	A	843	CLA	C4A-NA-C1A	-3.99	104.91	106.71
12	B	807	CLA	C3D-C4D-ND	3.99	116.69	110.24
12	A	819	CLA	C3D-C4D-ND	3.99	116.69	110.24
12	F	203	CLA	C1D-CHD-C4C	-3.98	117.46	126.06
12	A	839	CLA	C1C-C2C-C3C	-3.98	102.77	106.96
12	A	825	CLA	C3D-C4D-ND	3.98	116.67	110.24
12	A	803	CLA	C3D-C4D-ND	3.97	116.67	110.24
12	B	816	CLA	C1C-C2C-C3C	-3.97	102.78	106.96
12	B	817	CLA	C1D-CHD-C4C	-3.97	117.49	126.06
12	A	843	CLA	C3C-C4C-NC	3.97	115.02	110.57
12	A	840	CLA	O2D-CGD-CBD	3.97	118.31	111.27
12	B	823	CLA	C1C-C2C-C3C	-3.96	102.79	106.96
12	B	805	CLA	C3D-C4D-ND	3.96	116.64	110.24
12	B	821	CLA	C3D-C4D-ND	3.96	116.64	110.24
12	A	806	CLA	C3D-C4D-ND	3.95	116.63	110.24
12	A	837	CLA	C3C-C4C-NC	3.95	115.00	110.57
12	A	816	CLA	C4A-NA-C1A	-3.95	104.93	106.71
12	B	828	CLA	C3C-C4C-NC	3.95	115.00	110.57
12	B	826	CLA	C1D-CHD-C4C	-3.94	117.55	126.06
12	A	810	CLA	C1D-CHD-C4C	-3.94	117.55	126.06
12	A	815	CLA	C4A-NA-C1A	-3.94	104.93	106.71
11	A	801	CL0	C1C-C2C-C3C	-3.94	102.81	106.96
12	A	821	CLA	C1D-CHD-C4C	-3.94	117.56	126.06

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	813	CLA	C3D-C4D-ND	3.94	116.61	110.24
12	B	817	CLA	C3C-C4C-NC	3.94	114.99	110.57
12	B	805	CLA	C1D-CHD-C4C	-3.93	117.57	126.06
12	B	806	CLA	C3D-C4D-ND	3.93	116.60	110.24
12	A	830	CLA	C3C-C4C-NC	3.93	114.97	110.57
12	B	811	CLA	C4A-NA-C1A	-3.93	104.94	106.71
12	A	834	CLA	C1D-CHD-C4C	-3.92	117.59	126.06
12	J	101	CLA	C4A-NA-C1A	-3.92	104.94	106.71
12	B	809	CLA	C1C-C2C-C3C	-3.92	102.84	106.96
12	F	203	CLA	C1C-C2C-C3C	-3.92	102.84	106.96
12	A	832	CLA	C1D-CHD-C4C	-3.92	117.60	126.06
12	J	101	CLA	C1D-CHD-C4C	-3.92	117.61	126.06
12	A	839	CLA	C3C-C4C-NC	3.92	114.96	110.57
12	A	854	CLA	C1D-CHD-C4C	-3.91	117.62	126.06
12	A	833	CLA	C1C-C2C-C3C	-3.91	102.84	106.96
12	A	823	CLA	C3B-C4B-NB	3.91	114.26	109.21
12	A	837	CLA	C3D-C4D-ND	3.91	116.56	110.24
12	B	827	CLA	C1C-C2C-C3C	-3.91	102.85	106.96
12	L	202	CLA	C1C-C2C-C3C	-3.91	102.85	106.96
12	A	840	CLA	C1D-CHD-C4C	-3.90	117.64	126.06
12	A	839	CLA	C4A-NA-C1A	-3.90	104.95	106.71
12	B	814	CLA	C3C-C4C-NC	3.90	114.94	110.57
12	B	821	CLA	C3C-C4C-NC	3.90	114.94	110.57
12	B	830	CLA	C1C-C2C-C3C	-3.90	102.86	106.96
12	B	808	CLA	C3D-C4D-ND	3.90	116.54	110.24
12	A	807	CLA	C4-C3-C5	3.90	120.44	115.98
12	A	802	CLA	C3C-C4C-NC	3.90	114.94	110.57
12	B	832	CLA	CHC-C1C-C2C	-3.89	115.95	126.72
12	B	821	CLA	C1D-CHD-C4C	-3.89	117.66	126.06
12	A	820	CLA	C1D-CHD-C4C	-3.89	117.66	126.06
12	B	810	CLA	C3B-C4B-NB	3.89	114.24	109.21
12	B	808	CLA	C1D-CHD-C4C	-3.89	117.67	126.06
12	A	839	CLA	O2D-CGD-O1D	-3.89	116.23	123.84
12	B	807	CLA	C4A-NA-C1A	-3.89	104.96	106.71
12	B	811	CLA	C1D-CHD-C4C	-3.88	117.68	126.06
12	A	830	CLA	C3D-C4D-ND	3.88	116.52	110.24
12	A	838	CLA	C1D-CHD-C4C	-3.88	117.70	126.06
12	A	814	CLA	C1D-CHD-C4C	-3.87	117.71	126.06
12	A	811	CLA	C3C-C4C-NC	3.87	114.91	110.57
12	B	818	CLA	C1D-CHD-C4C	-3.87	117.72	126.06
12	B	816	CLA	C1D-CHD-C4C	-3.86	117.73	126.06
12	B	822	CLA	C3D-C2D-C1D	-3.86	100.56	105.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	808	CLA	C1D-CHD-C4C	-3.86	117.73	126.06
12	A	829	CLA	C1D-CHD-C4C	-3.86	117.74	126.06
12	B	820	CLA	C1-C2-C3	-3.86	119.37	126.04
12	A	828	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
12	B	806	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
12	B	816	CLA	C3C-C4C-NC	3.85	114.89	110.57
12	B	831	CLA	C3C-C4C-NC	3.85	114.89	110.57
12	A	815	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
12	A	805	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
12	B	805	CLA	CAC-C3C-C4C	3.85	129.80	124.81
12	A	854	CLA	CBA-CAA-C2A	3.85	125.21	113.86
12	B	811	CLA	C3D-C4D-ND	3.84	116.45	110.24
12	A	814	CLA	C3D-C4D-ND	3.84	116.45	110.24
12	A	833	CLA	CAA-C2A-C3A	-3.84	102.26	112.78
12	B	823	CLA	CMB-C2B-C3B	3.84	131.86	124.68
12	B	831	CLA	C1C-C2C-C3C	-3.84	102.92	106.96
12	B	803	CLA	CAC-C3C-C4C	3.84	129.79	124.81
12	B	802	CLA	C1D-CHD-C4C	-3.83	117.79	126.06
12	B	812	CLA	C3C-C4C-NC	3.83	114.87	110.57
12	A	808	CLA	C3D-C4D-ND	3.83	116.44	110.24
12	B	818	CLA	C3D-C4D-ND	3.83	116.44	110.24
12	A	830	CLA	C1C-C2C-C3C	-3.83	102.93	106.96
12	L	203	CLA	C1C-C2C-C3C	-3.83	102.93	106.96
12	A	836	CLA	C1C-C2C-C3C	-3.83	102.93	106.96
12	B	828	CLA	C1D-CHD-C4C	-3.82	117.81	126.06
12	A	823	CLA	C3C-C4C-NC	3.82	114.86	110.57
12	A	808	CLA	C3C-C4C-NC	3.82	114.86	110.57
12	A	818	CLA	C3C-C4C-NC	3.82	114.85	110.57
12	A	826	CLA	C1D-CHD-C4C	-3.81	117.83	126.06
12	A	814	CLA	C3C-C4C-NC	3.81	114.84	110.57
12	A	807	CLA	C1C-C2C-C3C	-3.81	102.95	106.96
12	B	823	CLA	C1D-CHD-C4C	-3.80	117.85	126.06
12	A	843	CLA	C1D-CHD-C4C	-3.80	117.86	126.06
12	A	854	CLA	CMD-C2D-C1D	3.80	131.41	124.71
12	A	805	CLA	C4A-NA-C1A	-3.80	105.00	106.71
12	A	841	CLA	C1C-C2C-C3C	-3.80	102.97	106.96
12	A	854	CLA	C3D-C4D-ND	3.80	116.38	110.24
12	B	816	CLA	CMB-C2B-C3B	3.79	131.77	124.68
12	B	829	CLA	C1C-C2C-C3C	-3.79	102.97	106.96
12	A	803	CLA	C3C-C4C-NC	3.79	114.82	110.57
12	A	820	CLA	C3D-C4D-ND	3.78	116.36	110.24
12	A	837	CLA	C1C-C2C-C3C	-3.78	102.98	106.96

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	824	CLA	C1C-C2C-C3C	-3.78	102.98	106.96
12	A	812	CLA	C1D-CHD-C4C	-3.77	117.92	126.06
12	A	854	CLA	C4-C3-C5	3.77	121.62	115.27
12	B	829	CLA	CAA-CBA-CGA	-3.77	102.23	113.25
12	A	833	CLA	C1D-CHD-C4C	-3.77	117.93	126.06
12	A	809	CLA	C4A-NA-C1A	-3.76	105.01	106.71
12	A	833	CLA	C3C-C4C-NC	3.76	114.79	110.57
12	A	816	CLA	C1D-CHD-C4C	-3.76	117.95	126.06
12	L	204	CLA	C3C-C4C-NC	3.75	114.78	110.57
12	B	809	CLA	CHD-C4C-NC	3.75	130.11	124.20
12	B	810	CLA	C3D-C4D-ND	3.74	116.29	110.24
12	B	827	CLA	C1D-CHD-C4C	-3.74	117.98	126.06
12	A	835	CLA	C1C-C2C-C3C	-3.74	103.03	106.96
12	A	831	CLA	C3C-C4C-NC	3.74	114.76	110.57
12	B	813	CLA	C1D-CHD-C4C	-3.74	118.00	126.06
12	A	813	CLA	C1D-CHD-C4C	-3.73	118.00	126.06
12	B	804	CLA	C2C-C1C-NC	3.73	113.47	109.97
12	A	810	CLA	C3C-C4C-NC	3.73	114.75	110.57
12	B	811	CLA	C1C-C2C-C3C	-3.72	103.04	106.96
12	A	831	CLA	C1D-CHD-C4C	-3.72	118.03	126.06
12	B	827	CLA	C3C-C4C-NC	3.72	114.74	110.57
12	B	823	CLA	C3B-C4B-NB	3.72	114.02	109.21
12	A	823	CLA	C1D-CHD-C4C	-3.72	118.04	126.06
12	B	823	CLA	CAC-C3C-C4C	3.72	129.63	124.81
12	L	202	CLA	C3C-C4C-NC	3.72	114.74	110.57
12	A	836	CLA	C3C-C4C-NC	3.71	114.73	110.57
12	A	819	CLA	C1D-CHD-C4C	-3.71	118.06	126.06
12	J	101	CLA	C3C-C4C-NC	3.71	114.73	110.57
12	A	809	CLA	O2D-CGD-CBD	3.70	117.85	111.27
12	A	827	CLA	C3D-C4D-ND	3.70	116.23	110.24
12	B	827	CLA	C3B-C4B-NB	3.70	114.00	109.21
12	A	826	CLA	C1C-C2C-C3C	-3.70	103.06	106.96
12	B	805	CLA	C1C-C2C-C3C	-3.70	103.06	106.96
12	A	819	CLA	C3B-C4B-NB	3.69	113.98	109.21
12	B	826	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
12	A	854	CLA	O2A-C1-C2	3.69	118.34	108.64
12	B	832	CLA	C1D-CHD-C4C	-3.69	118.10	126.06
12	A	807	CLA	C1D-CHD-C4C	-3.69	118.10	126.06
12	A	842	CLA	C1D-CHD-C4C	-3.69	118.10	126.06
12	A	809	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
12	B	810	CLA	C1D-CHD-C4C	-3.69	118.10	126.06
12	A	821	CLA	C3C-C4C-NC	3.69	114.71	110.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	830	CLA	C3B-C4B-NB	3.69	113.98	109.21
12	A	836	CLA	C1D-CHD-C4C	-3.69	118.11	126.06
12	B	830	CLA	C3C-C4C-NC	3.69	114.70	110.57
12	B	811	CLA	CAA-C2A-C1A	3.68	124.04	111.97
15	L	206	BCR	C2-C1-C6	3.67	116.13	110.48
12	B	829	CLA	C4A-NA-C1A	-3.67	105.06	106.71
12	B	822	CLA	C1C-C2C-C3C	-3.67	103.10	106.96
12	A	802	CLA	CAA-C2A-C3A	-3.66	102.74	112.78
12	A	834	CLA	C3C-C4C-NC	3.66	114.68	110.57
12	A	841	CLA	C1D-CHD-C4C	-3.66	118.16	126.06
12	A	828	CLA	C3B-C4B-NB	3.66	113.94	109.21
12	L	204	CLA	CAA-C2A-C3A	-3.66	102.75	112.78
12	B	802	CLA	CAC-C3C-C4C	3.66	129.56	124.81
12	B	830	CLA	C1D-CHD-C4C	-3.66	118.17	126.06
12	B	818	CLA	C3C-C4C-NC	3.65	114.67	110.57
12	A	840	CLA	O2A-CGA-CBA	3.65	123.37	111.91
12	B	815	CLA	C1C-C2C-C3C	-3.65	103.12	106.96
12	B	809	CLA	CAA-C2A-C3A	-3.65	102.78	112.78
12	A	808	CLA	C1C-C2C-C3C	-3.65	103.12	106.96
12	B	810	CLA	CHC-C1C-C2C	-3.65	116.63	126.72
12	B	825	CLA	C1D-CHD-C4C	-3.65	118.19	126.06
12	B	821	CLA	CMB-C2B-C3B	3.65	131.50	124.68
12	A	811	CLA	C1C-C2C-C3C	-3.65	103.12	106.96
12	B	815	CLA	C3B-C4B-NB	3.64	113.92	109.21
12	A	815	CLA	C1C-C2C-C3C	-3.64	103.13	106.96
12	B	813	CLA	C3C-C4C-NC	3.64	114.66	110.57
12	B	806	CLA	C1C-C2C-C3C	-3.64	103.13	106.96
12	A	831	CLA	C1C-C2C-C3C	-3.64	103.13	106.96
12	A	828	CLA	C3D-C4D-ND	3.64	116.12	110.24
12	B	806	CLA	C4A-NA-C1A	-3.64	105.07	106.71
12	A	804	CLA	C1D-CHD-C4C	-3.64	118.22	126.06
12	B	815	CLA	C3C-C4C-NC	3.64	114.65	110.57
12	A	815	CLA	C3C-C4C-NC	3.63	114.65	110.57
12	A	841	CLA	C3C-C4C-NC	3.63	114.64	110.57
12	B	826	CLA	C3C-C4C-NC	3.63	114.64	110.57
12	B	805	CLA	C3B-C4B-NB	3.63	113.90	109.21
12	A	824	CLA	C1D-CHD-C4C	-3.63	118.23	126.06
12	A	838	CLA	C1C-C2C-C3C	-3.62	103.15	106.96
12	A	805	CLA	C3B-C4B-NB	3.62	113.89	109.21
12	B	803	CLA	CMA-C3A-C2A	-3.62	99.23	113.83
12	A	834	CLA	C1C-C2C-C3C	-3.62	103.15	106.96
12	B	811	CLA	C3C-C4C-NC	3.61	114.62	110.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	843	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
12	B	812	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
12	A	812	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
12	B	826	CLA	CAA-C2A-C3A	-3.61	102.90	112.78
12	L	203	CLA	C3C-C4C-NC	3.61	114.61	110.57
15	B	835	BCR	C2-C1-C6	3.60	116.03	110.48
12	B	824	CLA	C3C-C4C-NC	3.60	114.61	110.57
12	F	203	CLA	C3C-C4C-NC	3.60	114.61	110.57
12	A	832	CLA	C3C-C4C-NC	3.60	114.60	110.57
12	A	806	CLA	C3C-C4C-NC	3.60	114.60	110.57
12	A	840	CLA	C1C-C2C-C3C	-3.59	103.18	106.96
12	B	832	CLA	C4A-NA-C1A	-3.59	105.09	106.71
12	L	204	CLA	C1D-CHD-C4C	-3.59	118.32	126.06
12	A	828	CLA	CMB-C2B-C3B	3.58	131.38	124.68
12	B	826	CLA	C3B-C4B-NB	3.58	113.84	109.21
12	B	812	CLA	C1D-CHD-C4C	-3.58	118.34	126.06
12	B	832	CLA	O2D-CGD-O1D	-3.57	116.86	123.84
12	A	825	CLA	C3B-C4B-NB	3.56	113.81	109.21
12	A	820	CLA	C3B-C4B-NB	3.56	113.81	109.21
12	B	831	CLA	C1D-CHD-C4C	-3.56	118.38	126.06
12	A	838	CLA	C3C-C4C-NC	3.56	114.56	110.57
12	B	805	CLA	C3C-C4C-NC	3.56	114.56	110.57
12	A	812	CLA	C3C-C4C-NC	3.55	114.56	110.57
12	B	806	CLA	C3C-C4C-NC	3.55	114.55	110.57
12	B	819	CLA	C1D-CHD-C4C	-3.54	118.42	126.06
12	A	822	CLA	C4A-NA-C1A	-3.54	105.11	106.71
12	B	824	CLA	CMB-C2B-C3B	3.53	131.28	124.68
12	B	824	CLA	C1C-C2C-C3C	-3.53	103.25	106.96
12	A	837	CLA	C3B-C4B-NB	3.53	113.77	109.21
12	A	824	CLA	C3B-C4B-NB	3.53	113.77	109.21
12	A	810	CLA	C3B-C4B-NB	3.52	113.77	109.21
12	B	805	CLA	CMB-C2B-C3B	3.51	131.25	124.68
12	A	819	CLA	C3C-C4C-NC	3.51	114.51	110.57
12	B	821	CLA	CMC-C2C-C1C	3.51	130.38	125.04
12	A	824	CLA	CAC-C3C-C4C	3.51	129.36	124.81
12	A	843	CLA	C3B-C4B-NB	3.51	113.74	109.21
12	F	203	CLA	C3B-C4B-NB	3.50	113.74	109.21
12	A	819	CLA	C1C-C2C-C3C	-3.50	103.28	106.96
12	L	203	CLA	C1D-CHD-C4C	-3.50	118.51	126.06
12	B	828	CLA	C1C-C2C-C3C	-3.50	103.28	106.96
12	B	806	CLA	CHC-C1C-C2C	-3.49	117.06	126.72
12	B	820	CLA	C3D-C4D-ND	3.49	115.89	110.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	804	CLA	CHB-C4A-NA	3.49	129.34	124.51
12	A	835	CLA	C3B-C4B-NB	3.49	113.72	109.21
12	A	806	CLA	CHD-C4C-NC	3.49	129.70	124.20
12	B	803	CLA	C11-C12-C13	-3.49	104.64	115.92
12	A	816	CLA	C3B-C4B-NB	3.49	113.72	109.21
12	B	829	CLA	C1D-CHD-C4C	-3.48	118.54	126.06
12	B	824	CLA	C3B-C4B-NB	3.48	113.71	109.21
12	A	816	CLA	C3C-C4C-NC	3.48	114.48	110.57
12	A	813	CLA	C4C-C3C-C2C	-3.48	101.82	106.90
12	J	101	CLA	CAC-C3C-C4C	3.48	129.32	124.81
12	A	832	CLA	C1C-C2C-C3C	-3.48	103.30	106.96
12	A	817	CLA	C1C-C2C-C3C	-3.47	103.30	106.96
12	A	834	CLA	C3B-C4B-NB	3.47	113.70	109.21
12	B	804	CLA	C3D-C4D-ND	3.47	115.86	110.24
12	B	823	CLA	C3C-C4C-NC	3.47	114.46	110.57
12	A	802	CLA	C1D-CHD-C4C	-3.47	118.57	126.06
12	A	807	CLA	C3C-C4C-NC	3.47	114.46	110.57
12	B	824	CLA	C1D-CHD-C4C	-3.46	118.59	126.06
12	A	829	CLA	C1C-C2C-C3C	-3.46	103.32	106.96
12	B	810	CLA	C4A-NA-C1A	-3.45	105.15	106.71
12	A	824	CLA	C3C-C4C-NC	3.45	114.44	110.57
12	A	820	CLA	CHC-C1C-C2C	-3.45	117.17	126.72
12	A	836	CLA	O2D-CGD-O1D	-3.45	117.09	123.84
12	A	825	CLA	C4C-C3C-C2C	-3.45	101.87	106.90
12	B	807	CLA	C1-C2-C3	-3.45	120.08	126.04
12	A	814	CLA	C1C-C2C-C3C	-3.44	103.33	106.96
15	A	849	BCR	C11-C10-C9	-3.44	122.39	127.31
12	A	821	CLA	C1C-C2C-C3C	-3.44	103.34	106.96
12	A	854	CLA	O2D-CGD-O1D	-3.44	117.11	123.84
12	J	101	CLA	C3B-C4B-NB	3.44	113.66	109.21
12	A	826	CLA	C3C-C4C-NC	3.44	114.43	110.57
12	B	803	CLA	CED-O2D-CGD	3.44	123.72	115.94
12	B	830	CLA	C3B-C4B-NB	3.44	113.65	109.21
12	B	805	CLA	C4A-NA-C1A	-3.44	105.16	106.71
12	L	203	CLA	C4A-NA-C1A	-3.43	105.16	106.71
12	A	854	CLA	C4C-C3C-C2C	-3.43	101.89	106.90
12	B	818	CLA	CBA-CAA-C2A	3.43	123.98	113.86
12	B	814	CLA	C1C-C2C-C3C	-3.42	103.36	106.96
12	A	842	CLA	C1C-C2C-C3C	-3.42	103.36	106.96
12	A	819	CLA	CAC-C3C-C4C	3.42	129.24	124.81
12	A	854	CLA	CAC-C3C-C4C	3.42	129.24	124.81
12	B	832	CLA	C3C-C4C-NC	3.42	114.40	110.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	838	CLA	O2D-CGD-O1D	-3.42	117.16	123.84
15	J	103	BCR	C2-C1-C6	3.40	115.71	110.48
12	A	842	CLA	O2A-CGA-CBA	3.39	122.55	111.91
12	B	810	CLA	CAC-C3C-C4C	3.39	129.21	124.81
12	A	811	CLA	C3B-C4B-NB	3.39	113.59	109.21
12	A	822	CLA	C3C-C4C-NC	3.38	114.36	110.57
12	B	821	CLA	C3B-C4B-NB	3.38	113.58	109.21
12	B	803	CLA	CMB-C2B-C1B	3.37	133.65	128.46
12	A	811	CLA	CAA-C2A-C3A	-3.37	103.56	112.78
12	A	836	CLA	C3B-C4B-NB	3.36	113.56	109.21
12	B	804	CLA	CMB-C2B-C3B	3.36	130.97	124.68
15	J	103	BCR	C3-C4-C5	-3.36	108.07	114.08
12	A	805	CLA	C3C-C4C-NC	3.36	114.34	110.57
12	A	830	CLA	CHC-C1C-C2C	-3.36	117.44	126.72
12	A	812	CLA	CAC-C3C-C4C	3.36	129.16	124.81
12	A	819	CLA	CHC-C1C-C2C	-3.35	117.44	126.72
15	A	848	BCR	C3-C4-C5	-3.35	108.10	114.08
12	B	818	CLA	CHC-C1C-C2C	-3.35	117.46	126.72
12	A	835	CLA	CAA-C2A-C3A	-3.35	103.61	112.78
12	A	804	CLA	CMC-C2C-C1C	3.35	130.13	125.04
12	B	811	CLA	C3B-C4B-NB	3.35	113.53	109.21
12	A	854	CLA	C1C-C2C-C3C	-3.34	103.44	106.96
12	A	830	CLA	O2D-CGD-O1D	-3.34	117.30	123.84
12	A	817	CLA	C3B-C4B-NB	3.34	113.53	109.21
12	A	831	CLA	CAC-C3C-C4C	3.34	129.15	124.81
12	B	820	CLA	CHD-C4C-NC	3.34	129.47	124.20
12	B	802	CLA	C1C-C2C-C3C	-3.34	103.44	106.96
12	B	807	CLA	C3C-C4C-NC	3.34	114.32	110.57
12	B	809	CLA	CBC-CAC-C3C	-3.34	103.22	112.43
12	B	811	CLA	CHC-C1C-C2C	-3.34	117.49	126.72
12	B	829	CLA	C3C-C4C-NC	3.33	114.31	110.57
16	A	853	LHG	O8-C23-C24	3.33	120.11	111.38
12	A	805	CLA	C1C-C2C-C3C	-3.33	103.46	106.96
12	B	809	CLA	C3B-C4B-NB	3.33	113.51	109.21
12	A	818	CLA	C4C-C3C-C2C	-3.33	102.05	106.90
12	A	841	CLA	CAA-C2A-C3A	-3.33	103.67	112.78
12	B	825	CLA	C1C-C2C-C3C	-3.32	103.46	106.96
12	A	820	CLA	C3C-C4C-NC	3.32	114.30	110.57
12	B	810	CLA	C3C-C4C-NC	3.32	114.29	110.57
12	A	839	CLA	C3B-C4B-NB	3.31	113.49	109.21
12	A	816	CLA	CHC-C1C-C2C	-3.31	117.57	126.72
12	A	829	CLA	O2A-CGA-CBA	3.31	122.29	111.91

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	831	CLA	C1-C2-C3	-3.31	121.40	126.75
12	B	818	CLA	C3B-C4B-NB	3.31	113.48	109.21
12	A	828	CLA	C1C-C2C-C3C	-3.30	103.48	106.96
12	B	801	CLA	CMB-C2B-C3B	3.30	130.86	124.68
15	A	848	BCR	C2-C1-C6	3.30	115.56	110.48
12	A	802	CLA	C1C-C2C-C3C	-3.29	103.50	106.96
12	B	823	CLA	CHC-C1C-C2C	-3.29	117.63	126.72
12	A	842	CLA	CAC-C3C-C4C	3.28	129.07	124.81
12	A	804	CLA	C1C-C2C-C3C	-3.28	103.51	106.96
12	A	803	CLA	C3B-C4B-NB	3.28	113.44	109.21
12	A	803	CLA	CAC-C3C-C4C	3.27	129.06	124.81
12	B	802	CLA	C3B-C4B-NB	3.27	113.44	109.21
12	L	202	CLA	C3B-C4B-NB	3.27	113.44	109.21
12	A	805	CLA	CAC-C3C-C4C	3.27	129.05	124.81
12	A	827	CLA	C4C-C3C-C2C	-3.27	102.14	106.90
12	A	807	CLA	C3B-C4B-NB	3.27	113.43	109.21
12	B	823	CLA	O2D-CGD-O1D	-3.26	117.46	123.84
12	B	807	CLA	CHD-C4C-NC	3.26	129.34	124.20
12	B	807	CLA	C3B-C4B-NB	3.26	113.42	109.21
12	B	803	CLA	C1C-C2C-C3C	-3.26	103.53	106.96
12	B	814	CLA	C3B-C4B-NB	3.26	113.42	109.21
12	A	827	CLA	O2D-CGD-O1D	-3.26	117.47	123.84
12	L	204	CLA	C1C-C2C-C3C	-3.25	103.54	106.96
12	L	203	CLA	C3B-C4B-NB	3.25	113.41	109.21
12	A	823	CLA	C4-C3-C5	3.25	119.70	115.98
15	J	103	BCR	C11-C10-C9	-3.25	122.68	127.31
12	A	841	CLA	C4-C3-C5	3.24	119.69	115.98
12	B	822	CLA	C3B-C4B-NB	3.24	113.40	109.21
12	B	812	CLA	C3B-C4B-NB	3.24	113.40	109.21
12	B	808	CLA	CHD-C4C-NC	3.24	129.31	124.20
13	B	833	PQN	C14-C13-C15	3.24	120.72	115.27
12	B	823	CLA	C4-C3-C5	3.24	120.72	115.27
12	B	801	CLA	CHC-C1C-C2C	-3.23	117.77	126.72
12	A	828	CLA	CAC-C3C-C4C	3.23	129.00	124.81
12	A	803	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
12	A	806	CLA	C1-C2-C3	-3.23	120.46	126.04
12	J	101	CLA	C1C-C2C-C3C	-3.23	103.56	106.96
12	A	838	CLA	CAC-C3C-C4C	3.23	129.00	124.81
12	A	820	CLA	CBC-CAC-C3C	-3.22	103.54	112.43
12	A	822	CLA	C3B-C4B-NB	3.22	113.38	109.21
12	B	819	CLA	C1C-C2C-C3C	-3.22	103.57	106.96
12	A	842	CLA	C4C-C3C-C2C	-3.22	102.20	106.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	815	CLA	C3B-C4B-NB	3.22	113.37	109.21
15	L	205	BCR	C24-C23-C22	-3.22	121.38	126.23
12	B	817	CLA	C1C-C2C-C3C	-3.21	103.58	106.96
12	A	824	CLA	CHC-C1C-C2C	-3.21	117.84	126.72
12	B	815	CLA	CHC-C1C-C2C	-3.21	117.84	126.72
12	B	825	CLA	C4C-C3C-C2C	-3.21	102.22	106.90
12	A	812	CLA	C3B-C4B-NB	3.21	113.36	109.21
12	A	854	CLA	C3B-C4B-NB	3.21	113.36	109.21
12	B	819	CLA	C3B-C4B-NB	3.21	113.36	109.21
12	A	805	CLA	CHB-C4A-NA	3.21	128.95	124.51
12	B	817	CLA	CMB-C2B-C3B	3.21	130.68	124.68
12	B	817	CLA	CAA-C2A-C3A	-3.21	104.00	112.78
12	B	829	CLA	C3B-C4B-NB	3.21	113.35	109.21
12	B	820	CLA	C4C-C3C-C2C	-3.20	102.23	106.90
12	A	834	CLA	CHC-C1C-C2C	-3.20	117.88	126.72
12	B	815	CLA	CAC-C3C-C4C	3.20	128.96	124.81
12	A	812	CLA	C4-C3-C5	3.19	120.64	115.27
12	A	827	CLA	CHD-C4C-NC	3.19	129.23	124.20
12	A	819	CLA	CBA-CAA-C2A	3.19	123.27	113.86
12	B	821	CLA	CAA-C2A-C3A	-3.19	104.06	112.78
12	A	809	CLA	C3B-C4B-NB	3.19	113.33	109.21
12	B	807	CLA	CHC-C1C-C2C	-3.18	117.91	126.72
12	A	817	CLA	C4C-C3C-C2C	-3.18	102.26	106.90
12	A	827	CLA	C1C-C2C-C3C	-3.18	103.62	106.96
12	A	810	CLA	CHC-C1C-C2C	-3.17	117.94	126.72
12	A	840	CLA	CAC-C3C-C4C	3.17	128.93	124.81
13	A	844	PQN	C14-C13-C15	3.17	120.61	115.27
12	B	817	CLA	C4C-C3C-C2C	-3.17	102.28	106.90
12	A	829	CLA	C4C-C3C-C2C	-3.17	102.28	106.90
12	F	203	CLA	CHC-C1C-C2C	-3.17	117.95	126.72
12	B	803	CLA	CMA-C3A-C4A	-3.17	103.25	111.77
12	A	842	CLA	C3B-C4B-NB	3.17	113.31	109.21
12	B	819	CLA	C3C-C4C-NC	3.17	114.12	110.57
12	A	841	CLA	O2A-CGA-CBA	3.17	121.85	111.91
11	A	801	CL0	CMA-C3A-C4A	-3.17	103.27	111.77
12	B	801	CLA	CAC-C3C-C4C	3.16	128.91	124.81
12	A	843	CLA	CHC-C1C-C2C	-3.16	117.97	126.72
12	B	820	CLA	C1C-C2C-C3C	-3.16	103.64	106.96
12	B	803	CLA	C3B-C4B-NB	3.16	113.29	109.21
12	L	204	CLA	C3B-C4B-NB	3.15	113.29	109.21
12	A	803	CLA	C1C-C2C-C3C	-3.15	103.64	106.96
12	A	802	CLA	CHB-C4A-NA	3.15	128.87	124.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	828	CLA	C4C-C3C-C2C	-3.15	102.31	106.90
12	A	825	CLA	C1C-C2C-C3C	-3.15	103.65	106.96
12	B	806	CLA	O2A-CGA-CBA	3.15	121.79	111.91
12	B	806	CLA	C1-O2A-CGA	3.15	124.70	116.44
12	A	833	CLA	C3B-C4B-NB	3.14	113.28	109.21
12	B	816	CLA	CHC-C1C-C2C	-3.14	118.03	126.72
15	J	104	BCR	C2-C1-C6	3.14	115.31	110.48
12	A	834	CLA	CAC-C3C-C4C	3.14	128.88	124.81
12	B	826	CLA	CAC-C3C-C4C	3.14	128.88	124.81
12	A	804	CLA	CHD-C4C-NC	3.14	129.15	124.20
12	A	807	CLA	CAC-C3C-C4C	3.13	128.88	124.81
12	B	813	CLA	C1C-C2C-C3C	-3.13	103.66	106.96
12	A	829	CLA	CAC-C3C-C4C	3.13	128.87	124.81
12	A	811	CLA	CHC-C1C-C2C	-3.13	118.08	126.72
12	A	805	CLA	CHC-C1C-C2C	-3.12	118.08	126.72
12	A	808	CLA	O2A-CGA-CBA	3.12	121.70	111.91
12	A	837	CLA	CMB-C2B-C3B	3.12	130.52	124.68
12	B	820	CLA	O2A-C1-C2	3.12	116.83	108.64
12	A	831	CLA	O2A-CGA-CBA	3.12	121.69	111.91
12	B	826	CLA	O2A-CGA-CBA	3.11	121.68	111.91
12	A	808	CLA	C1-C2-C3	-3.11	120.66	126.04
12	A	829	CLA	C1-C2-C3	-3.11	120.66	126.04
12	A	815	CLA	CHC-C1C-C2C	-3.11	118.11	126.72
12	B	825	CLA	CAA-C2A-C3A	-3.11	104.27	112.78
12	F	203	CLA	CAC-C3C-C4C	3.11	128.84	124.81
12	A	838	CLA	C3B-C4B-NB	3.11	113.23	109.21
12	A	803	CLA	CHC-C1C-C2C	-3.10	118.14	126.72
12	B	829	CLA	CHC-C1C-C2C	-3.10	118.14	126.72
15	J	102	BCR	C11-C10-C9	-3.10	122.89	127.31
12	B	831	CLA	C3B-C4B-NB	3.10	113.21	109.21
12	A	822	CLA	CHD-C4C-NC	3.10	129.08	124.20
12	B	804	CLA	O2D-CGD-CBD	3.10	116.77	111.27
12	A	836	CLA	CHC-C1C-C2C	-3.09	118.16	126.72
12	B	811	CLA	C4-C3-C5	3.09	120.48	115.27
12	B	803	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
12	B	813	CLA	CMC-C2C-C1C	3.09	129.75	125.04
12	A	807	CLA	CHC-C1C-C2C	-3.09	118.17	126.72
12	B	805	CLA	CMC-C2C-C1C	3.09	129.75	125.04
12	A	826	CLA	O2A-CGA-CBA	3.09	121.61	111.91
12	B	802	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
12	A	835	CLA	CAC-C3C-C4C	3.09	128.82	124.81
12	A	843	CLA	C4C-C3C-C2C	-3.09	102.40	106.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L	203	CLA	C4-C3-C5	3.08	120.46	115.27
12	B	805	CLA	CBC-CAC-C3C	-3.08	103.93	112.43
12	A	854	CLA	O2A-CGA-CBA	3.08	121.58	111.91
12	A	836	CLA	CAC-C3C-C4C	3.08	128.81	124.81
15	J	104	BCR	C7-C8-C9	-3.08	121.58	126.23
12	A	812	CLA	CHC-C1C-C2C	-3.08	118.21	126.72
12	B	826	CLA	CHC-C1C-C2C	-3.08	118.21	126.72
12	A	838	CLA	CHC-C1C-C2C	-3.08	118.22	126.72
12	A	843	CLA	C4-C3-C5	3.08	120.44	115.27
12	B	808	CLA	C3B-C4B-NB	3.07	113.18	109.21
12	A	835	CLA	CHC-C1C-C2C	-3.07	118.23	126.72
12	A	837	CLA	CHC-C1C-C2C	-3.07	118.23	126.72
12	A	822	CLA	CHC-C1C-C2C	-3.07	118.24	126.72
12	A	854	CLA	CMB-C2B-C3B	3.07	130.41	124.68
12	A	835	CLA	C4C-C3C-C2C	-3.06	102.43	106.90
12	A	841	CLA	C3B-C4B-NB	3.06	113.17	109.21
12	J	101	CLA	CHC-C1C-C2C	-3.06	118.26	126.72
12	A	831	CLA	C3B-C4B-NB	3.06	113.17	109.21
12	B	803	CLA	CHC-C1C-C2C	-3.06	118.27	126.72
12	A	833	CLA	CHC-C1C-C2C	-3.06	118.27	126.72
12	B	801	CLA	C4-C3-C5	3.05	120.41	115.27
12	B	822	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
11	A	801	CL0	C3B-C4B-NB	3.05	113.16	109.21
12	B	802	CLA	C4-C3-C5	3.05	120.40	115.27
12	L	204	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
12	B	807	CLA	C4-C3-C5	3.05	120.39	115.27
12	A	837	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
12	B	821	CLA	C1C-C2C-C3C	-3.04	103.76	106.96
15	A	846	BCR	C27-C26-C25	3.04	127.14	122.73
12	A	838	CLA	O2A-CGA-CBA	3.04	121.44	111.91
12	B	806	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
12	B	830	CLA	CHC-C1C-C2C	-3.04	118.32	126.72
12	B	813	CLA	C3B-C4B-NB	3.03	113.13	109.21
12	J	101	CLA	C4C-C3C-C2C	-3.03	102.48	106.90
12	A	831	CLA	CHC-C1C-C2C	-3.03	118.33	126.72
12	B	827	CLA	CAC-C3C-C4C	3.03	128.74	124.81
12	B	801	CLA	CHA-C1A-NA	-3.03	119.46	126.40
12	A	814	CLA	CMC-C2C-C1C	3.03	129.65	125.04
12	B	807	CLA	C7-C6-C5	-3.03	105.13	113.36
12	L	202	CLA	CHC-C1C-C2C	-3.03	118.34	126.72
12	B	825	CLA	CAC-C3C-C4C	3.03	128.74	124.81
12	B	812	CLA	CAA-C2A-C3A	-3.03	104.49	112.78

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	809	CLA	C4C-C3C-C2C	-3.03	102.49	106.90
12	L	203	CLA	CHC-C1C-C2C	-3.02	118.36	126.72
12	B	821	CLA	C4C-C3C-C2C	-3.02	102.49	106.90
15	M	101	BCR	C24-C23-C22	-3.02	121.67	126.23
12	B	828	CLA	C4C-C3C-C2C	-3.02	102.50	106.90
12	A	808	CLA	C3B-C4B-NB	3.02	113.11	109.21
12	A	805	CLA	CMB-C2B-C3B	3.02	130.32	124.68
12	A	828	CLA	O2A-CGA-CBA	3.02	121.38	111.91
12	B	805	CLA	CHC-C1C-C2C	-3.02	118.37	126.72
12	A	818	CLA	CHC-C1C-C2C	-3.02	118.38	126.72
12	A	818	CLA	CAC-C3C-C4C	3.02	128.72	124.81
12	A	837	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
12	A	834	CLA	O2A-CGA-CBA	3.01	121.37	111.91
12	A	840	CLA	C3B-C4B-NB	3.01	113.11	109.21
12	B	803	CLA	CHD-C4C-NC	3.01	128.95	124.20
12	A	802	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
12	A	840	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
12	A	811	CLA	C4C-C3C-C2C	-3.01	102.52	106.90
12	B	812	CLA	CHC-C1C-C2C	-3.00	118.41	126.72
12	B	813	CLA	C4C-C3C-C2C	-3.00	102.52	106.90
12	A	823	CLA	CHC-C1C-C2C	-3.00	118.42	126.72
12	L	204	CLA	CAC-C3C-C4C	3.00	128.70	124.81
12	A	834	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
12	A	811	CLA	CAC-C3C-C4C	3.00	128.70	124.81
12	A	804	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
12	A	818	CLA	C1C-C2C-C3C	-3.00	103.81	106.96
12	A	826	CLA	CHD-C4C-NC	2.99	128.92	124.20
12	A	830	CLA	C4C-C3C-C2C	-2.99	102.53	106.90
12	B	825	CLA	O2A-CGA-CBA	2.99	121.30	111.91
12	A	815	CLA	CAC-C3C-C4C	2.99	128.69	124.81
12	A	839	CLA	O2A-CGA-CBA	2.99	121.28	111.91
12	A	806	CLA	C3B-C4B-NB	2.98	113.07	109.21
12	A	804	CLA	CMB-C2B-C3B	2.98	130.26	124.68
12	B	814	CLA	C4C-C3C-C2C	-2.98	102.55	106.90
12	A	838	CLA	CMB-C2B-C3B	2.98	130.26	124.68
12	B	809	CLA	CHC-C1C-C2C	-2.98	118.47	126.72
12	B	808	CLA	CHC-C1C-C2C	-2.98	118.47	126.72
12	B	802	CLA	CHC-C1C-C2C	-2.98	118.48	126.72
12	A	814	CLA	CHD-C4C-NC	2.98	128.90	124.20
15	J	103	BCR	C27-C26-C25	2.98	127.06	122.73
12	A	832	CLA	CHC-C1C-C2C	-2.98	118.49	126.72
12	A	842	CLA	CHC-C1C-C2C	-2.97	118.49	126.72

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	819	CLA	C4C-C3C-C2C	-2.97	102.56	106.90
12	A	832	CLA	CHD-C4C-NC	2.97	128.89	124.20
12	B	821	CLA	O2A-CGA-CBA	2.97	121.24	111.91
12	B	827	CLA	CHC-C1C-C2C	-2.97	118.51	126.72
12	A	817	CLA	CHC-C1C-C2C	-2.97	118.52	126.72
12	B	822	CLA	CHC-C1C-C2C	-2.97	118.52	126.72
12	B	805	CLA	CHD-C4C-NC	2.97	128.88	124.20
12	A	821	CLA	CMC-C2C-C1C	2.96	129.55	125.04
12	B	803	CLA	CMC-C2C-C1C	2.96	129.55	125.04
12	B	812	CLA	C4C-C3C-C2C	-2.96	102.58	106.90
12	B	818	CLA	CHD-C4C-NC	2.96	128.87	124.20
12	A	813	CLA	C3B-C4B-NB	2.96	113.03	109.21
12	A	829	CLA	C3B-C4B-NB	2.96	113.03	109.21
12	B	828	CLA	C3B-C4B-NB	2.96	113.03	109.21
12	A	821	CLA	CHD-C4C-NC	2.95	128.86	124.20
12	B	819	CLA	CAC-C3C-C4C	2.95	128.64	124.81
12	A	839	CLA	CHD-C4C-NC	2.95	128.85	124.20
12	A	824	CLA	CAA-C2A-C3A	-2.95	104.71	112.78
12	B	829	CLA	CHD-C4C-NC	2.95	128.84	124.20
12	A	823	CLA	CAC-C3C-C4C	2.94	128.63	124.81
12	B	805	CLA	CHB-C4A-NA	2.94	128.58	124.51
12	B	804	CLA	CHC-C1C-C2C	-2.94	118.59	126.72
12	B	820	CLA	O2A-CGA-CBA	2.94	121.14	111.91
15	F	201	BCR	C15-C16-C17	-2.94	117.45	123.47
12	A	802	CLA	C3B-C4B-NB	2.94	113.01	109.21
12	A	805	CLA	CHD-C4C-NC	2.94	128.84	124.20
12	A	808	CLA	CHC-C1C-C2C	-2.94	118.59	126.72
12	B	824	CLA	C4C-C3C-C2C	-2.94	102.61	106.90
12	A	832	CLA	C3B-C4B-NB	2.94	113.00	109.21
12	A	841	CLA	CHD-C4C-NC	2.93	128.82	124.20
12	B	826	CLA	C4C-C3C-C2C	-2.93	102.62	106.90
12	B	812	CLA	CAC-C3C-C4C	2.93	128.61	124.81
12	B	815	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
12	B	831	CLA	CMB-C2B-C3B	2.93	130.16	124.68
12	A	840	CLA	CMB-C2B-C3B	2.93	130.16	124.68
12	A	821	CLA	CAC-C3C-C4C	2.93	128.61	124.81
12	B	831	CLA	CHC-C1C-C2C	-2.93	118.62	126.72
12	B	817	CLA	CAC-C3C-C4C	2.93	128.61	124.81
12	B	814	CLA	CHD-C4C-NC	2.92	128.81	124.20
12	A	813	CLA	CHC-C1C-C2C	-2.92	118.63	126.72
12	A	806	CLA	CHC-C1C-C2C	-2.92	118.64	126.72
15	I	101	BCR	C29-C30-C25	2.92	114.98	110.48

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	815	CLA	C4C-C3C-C2C	-2.92	102.64	106.90
12	A	804	CLA	C4C-C3C-C2C	-2.92	102.65	106.90
12	A	814	CLA	CAC-C3C-C4C	2.91	128.59	124.81
11	A	801	CL0	C4C-C3C-C2C	-2.91	102.65	106.90
12	A	834	CLA	CAA-C2A-C3A	-2.91	104.80	112.78
12	B	817	CLA	CHC-C1C-C2C	-2.91	118.67	126.72
12	B	821	CLA	CHD-C4C-NC	2.91	128.79	124.20
12	B	828	CLA	CHD-C4C-NC	2.91	128.79	124.20
12	B	823	CLA	C3D-C2D-C1D	-2.91	101.86	105.83
12	B	811	CLA	O2D-CGD-CBD	2.91	116.43	111.27
12	A	809	CLA	CHC-C1C-C2C	-2.91	118.68	126.72
12	A	811	CLA	O2A-CGA-CBA	2.90	121.02	111.91
13	B	833	PQN	C11-C12-C13	-2.90	121.96	126.79
11	A	801	CL0	CGD-CBD-CAD	-2.90	101.33	110.73
12	A	830	CLA	CMB-C2B-C3B	2.90	130.11	124.68
12	B	815	CLA	C4C-C3C-C2C	-2.90	102.67	106.90
12	A	839	CLA	C1-C2-C3	-2.90	122.06	126.75
12	A	827	CLA	C3B-C4B-NB	2.90	112.96	109.21
12	B	809	CLA	C4C-C3C-C2C	-2.90	102.67	106.90
12	B	819	CLA	CHC-C1C-C2C	-2.90	118.70	126.72
12	A	831	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
12	A	833	CLA	O2A-CGA-CBA	2.90	121.00	111.91
12	A	820	CLA	CAC-C3C-C4C	2.90	128.57	124.81
12	B	804	CLA	C3B-C4B-NB	2.90	112.95	109.21
12	B	809	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
12	B	814	CLA	CHC-C1C-C2C	-2.90	118.71	126.72
12	A	832	CLA	C4C-C3C-C2C	-2.90	102.68	106.90
12	B	809	CLA	C4A-NA-C1A	-2.89	105.41	106.71
12	A	827	CLA	O2A-CGA-CBA	2.89	120.99	111.91
12	A	840	CLA	CHC-C1C-C2C	-2.89	118.72	126.72
12	A	805	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
12	B	822	CLA	CAC-C3C-C4C	2.89	128.56	124.81
11	A	801	CL0	O2D-CGD-O1D	-2.88	118.20	123.84
11	A	801	CL0	CHC-C1C-C2C	-2.88	118.75	126.72
12	B	816	CLA	CAC-C3C-C4C	2.88	128.55	124.81
12	B	813	CLA	CAA-C2A-C3A	-2.88	104.89	112.78
12	A	817	CLA	O2A-CGA-CBA	2.88	120.94	111.91
12	A	831	CLA	C4C-C3C-C2C	-2.88	102.70	106.90
12	A	841	CLA	CHC-C1C-C2C	-2.88	118.77	126.72
12	A	818	CLA	CHD-C4C-NC	2.87	128.73	124.20
12	B	829	CLA	C1-C2-C3	-2.87	121.07	126.04
12	A	812	CLA	C4C-C3C-C2C	-2.87	102.71	106.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	821	CLA	CAA-C2A-C3A	-2.87	104.91	112.78
15	B	834	BCR	C27-C26-C25	2.87	126.90	122.73
12	B	806	CLA	O2D-CGD-O1D	-2.87	118.22	123.84
12	B	819	CLA	C4C-C3C-C2C	-2.87	102.72	106.90
12	A	806	CLA	O2A-CGA-CBA	2.87	120.90	111.91
12	A	808	CLA	C4C-C3C-C2C	-2.86	102.72	106.90
12	B	804	CLA	CBA-CAA-C2A	2.86	122.31	113.86
12	B	830	CLA	CAC-C3C-C4C	2.86	128.52	124.81
12	B	831	CLA	C4C-C3C-C2C	-2.86	102.73	106.90
12	A	823	CLA	C4C-C3C-C2C	-2.86	102.73	106.90
12	B	807	CLA	CBC-CAC-C3C	-2.86	104.56	112.43
12	A	830	CLA	CAC-C3C-C4C	2.85	128.51	124.81
12	A	814	CLA	C4C-C3C-C2C	-2.85	102.74	106.90
12	B	816	CLA	C4C-C3C-C2C	-2.85	102.74	106.90
12	B	824	CLA	CHC-C1C-C2C	-2.85	118.83	126.72
12	B	811	CLA	C4C-C3C-C2C	-2.85	102.74	106.90
12	B	801	CLA	C1B-CHB-C4A	-2.85	124.47	130.12
12	A	818	CLA	O2A-CGA-CBA	2.85	120.85	111.91
12	B	813	CLA	CHC-C1C-C2C	-2.85	118.85	126.72
12	A	805	CLA	C4C-C3C-C2C	-2.85	102.75	106.90
12	J	101	CLA	CHD-C4C-NC	2.85	128.69	124.20
12	A	832	CLA	CAC-C3C-C4C	2.84	128.50	124.81
12	A	825	CLA	CMB-C2B-C3B	2.84	130.00	124.68
12	A	833	CLA	CHD-C4C-NC	2.84	128.68	124.20
12	A	818	CLA	C3B-C4B-NB	2.84	112.89	109.21
12	B	831	CLA	CAC-C3C-C4C	2.84	128.50	124.81
12	A	838	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
12	B	830	CLA	CAA-C2A-C3A	-2.84	105.01	112.78
12	A	836	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
12	B	813	CLA	O2A-CGA-CBA	2.84	120.81	111.91
11	A	801	CL0	CHD-C4C-NC	2.84	128.67	124.20
12	B	814	CLA	CAA-C2A-C3A	-2.83	105.02	112.78
12	L	202	CLA	CHD-C4C-NC	2.83	128.67	124.20
12	A	833	CLA	C1-C2-C3	-2.83	121.14	126.04
17	B	837	LMG	O6-C1-O1	-2.83	103.27	109.97
12	A	829	CLA	CMC-C2C-C1C	2.83	129.35	125.04
13	B	833	PQN	C2M-C2-C3	-2.83	119.79	124.40
12	A	813	CLA	C1C-C2C-C3C	-2.83	103.98	106.96
12	A	854	CLA	CHA-C1A-NA	-2.83	119.93	126.40
12	A	828	CLA	C4-C3-C5	2.82	120.02	115.27
12	A	814	CLA	C3B-C4B-NB	2.82	112.86	109.21
12	A	854	CLA	CMC-C2C-C1C	2.82	129.34	125.04

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	821	CLA	C4C-C3C-C2C	-2.82	102.79	106.90
15	A	850	BCR	C15-C16-C17	-2.82	117.70	123.47
12	A	826	CLA	CHC-C1C-C2C	-2.82	118.92	126.72
12	B	828	CLA	CHC-C1C-C2C	-2.82	118.92	126.72
12	B	807	CLA	CAA-C2A-C3A	-2.82	105.06	112.78
15	A	848	BCR	C11-C10-C9	-2.82	123.29	127.31
12	B	803	CLA	O2D-CGD-CBD	2.82	116.27	111.27
12	L	204	CLA	CHC-C1C-C2C	-2.81	118.94	126.72
11	A	801	CL0	C1-C2-C3	-2.81	121.18	126.04
11	A	801	CL0	CHB-C4A-NA	2.81	128.40	124.51
12	B	821	CLA	CHC-C1C-C2C	-2.81	118.95	126.72
12	B	814	CLA	CAC-C3C-C4C	2.81	128.45	124.81
12	L	202	CLA	C4C-C3C-C2C	-2.81	102.81	106.90
12	B	801	CLA	CBC-CAC-C3C	-2.81	104.70	112.43
12	A	839	CLA	C4C-C3C-C2C	-2.80	102.81	106.90
12	B	808	CLA	CAA-C2A-C3A	-2.80	105.10	112.78
12	B	817	CLA	CHD-C4C-NC	2.80	128.62	124.20
12	A	806	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
12	A	828	CLA	CHC-C1C-C2C	-2.80	118.98	126.72
12	A	813	CLA	CAC-C3C-C4C	2.80	128.44	124.81
12	A	809	CLA	CAC-C3C-C4C	2.79	128.44	124.81
15	B	834	BCR	C15-C16-C17	-2.79	117.75	123.47
12	F	203	CLA	C4C-C3C-C2C	-2.79	102.83	106.90
12	B	827	CLA	C4C-C3C-C2C	-2.79	102.83	106.90
15	A	846	BCR	C38-C26-C27	-2.79	108.26	113.62
12	L	203	CLA	C4C-C3C-C2C	-2.79	102.84	106.90
12	B	811	CLA	O2A-CGA-CBA	2.79	120.65	111.91
12	B	829	CLA	CHB-C4A-NA	2.79	128.36	124.51
12	A	808	CLA	CHD-C4C-NC	2.78	128.59	124.20
12	B	830	CLA	O2A-CGA-CBA	2.78	120.64	111.91
12	A	825	CLA	CHC-C1C-C2C	-2.78	119.03	126.72
12	A	835	CLA	O2A-CGA-CBA	2.78	120.63	111.91
12	A	834	CLA	CHB-C4A-NA	2.78	128.36	124.51
15	A	850	BCR	C15-C14-C13	-2.78	123.34	127.31
12	A	826	CLA	C3B-C4B-NB	2.78	112.80	109.21
12	A	837	CLA	C4-C3-C5	2.78	119.16	115.98
12	B	808	CLA	C4C-C3C-C2C	-2.77	102.85	106.90
12	A	816	CLA	CAC-C3C-C4C	2.77	128.41	124.81
12	B	820	CLA	CHC-C1C-C2C	-2.77	119.05	126.72
12	L	204	CLA	CHD-C4C-NC	2.77	128.57	124.20
12	B	830	CLA	C4C-C3C-C2C	-2.77	102.86	106.90
12	A	821	CLA	C4-C3-C5	2.77	119.93	115.27

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	828	CLA	CAC-C3C-C4C	2.77	128.40	124.81
12	A	829	CLA	CHC-C1C-C2C	-2.77	119.06	126.72
12	B	813	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
12	A	824	CLA	O2A-CGA-CBA	2.77	120.59	111.91
12	B	825	CLA	CHC-C1C-C2C	-2.77	119.07	126.72
12	A	808	CLA	CAC-C3C-C4C	2.76	128.39	124.81
12	A	806	CLA	CMC-C2C-C1C	2.76	129.24	125.04
12	A	818	CLA	CMB-C2B-C3B	2.76	129.84	124.68
12	A	833	CLA	C4C-C3C-C2C	-2.76	102.88	106.90
15	B	835	BCR	C27-C26-C25	2.75	126.73	122.73
12	A	808	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
12	A	827	CLA	CHC-C1C-C2C	-2.75	119.11	126.72
12	A	821	CLA	C3B-C4B-NB	2.75	112.77	109.21
15	A	850	BCR	C24-C23-C22	-2.75	122.08	126.23
12	A	808	CLA	CMB-C2B-C3B	2.75	129.82	124.68
12	B	830	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
12	B	819	CLA	CHD-C4C-NC	2.75	128.53	124.20
12	A	802	CLA	CHC-C1C-C2C	-2.75	119.12	126.72
12	A	828	CLA	CHD-C4C-NC	2.75	128.53	124.20
12	A	803	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
12	B	806	CLA	CHB-C4A-NA	2.75	128.31	124.51
12	A	841	CLA	C4C-C3C-C2C	-2.75	102.90	106.90
12	B	817	CLA	C3B-C4B-NB	2.75	112.76	109.21
12	A	810	CLA	CHD-C4C-NC	2.74	128.53	124.20
12	A	815	CLA	CHD-C4C-NC	2.74	128.53	124.20
12	A	810	CLA	CAC-C3C-C4C	2.74	128.37	124.81
12	A	802	CLA	CHD-C4C-NC	2.74	128.52	124.20
12	L	202	CLA	CMB-C2B-C3B	2.74	129.81	124.68
12	B	803	CLA	CAA-C2A-C3A	-2.74	105.28	112.78
12	A	814	CLA	CHC-C1C-C2C	-2.74	119.15	126.72
12	B	823	CLA	C4C-C3C-C2C	-2.74	102.91	106.90
12	A	814	CLA	O2D-CGD-O1D	-2.74	118.49	123.84
12	A	813	CLA	CMB-C2B-C3B	2.74	129.80	124.68
12	B	818	CLA	CAC-C3C-C4C	2.73	128.36	124.81
15	B	835	BCR	C15-C16-C17	-2.73	117.88	123.47
12	A	810	CLA	C4C-C3C-C2C	-2.73	102.92	106.90
12	B	801	CLA	C4C-C3C-C2C	-2.73	102.92	106.90
12	B	807	CLA	O2D-CGD-O1D	-2.72	118.51	123.84
12	B	808	CLA	CBC-CAC-C3C	-2.72	104.92	112.43
12	B	826	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
12	A	840	CLA	CMC-C2C-C1C	2.72	129.18	125.04
12	A	827	CLA	CAA-C2A-C3A	-2.72	105.33	112.78

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	839	CLA	CMC-C2C-C1C	2.72	129.18	125.04
12	B	814	CLA	O2A-CGA-CBA	2.72	120.44	111.91
12	A	823	CLA	CMB-C2B-C3B	2.72	129.76	124.68
11	A	801	CL0	CBC-CAC-C3C	-2.72	104.94	112.43
12	B	825	CLA	C3B-C4B-NB	2.72	112.72	109.21
15	A	848	BCR	C27-C26-C25	2.72	126.67	122.73
12	A	854	CLA	CHC-C1C-C2C	-2.71	119.21	126.72
12	A	804	CLA	C3B-C4B-NB	2.71	112.72	109.21
12	A	816	CLA	C4C-C3C-C2C	-2.71	102.94	106.90
12	A	804	CLA	CAC-C3C-C4C	2.71	128.33	124.81
12	A	812	CLA	O2A-CGA-CBA	2.71	120.42	111.91
12	A	809	CLA	CHD-C4C-NC	2.71	128.47	124.20
12	A	843	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
12	A	807	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
12	A	820	CLA	O2A-CGA-CBA	2.71	120.41	111.91
12	B	820	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
15	A	848	BCR	C16-C15-C14	-2.71	117.93	123.47
12	B	814	CLA	CHB-C4A-NA	2.71	128.25	124.51
12	A	820	CLA	O2D-CGD-O1D	-2.71	118.55	123.84
12	B	805	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
12	B	817	CLA	O2A-CGA-CBA	2.70	120.39	111.91
12	A	832	CLA	C4-C3-C5	2.70	119.82	115.27
12	B	825	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
12	B	827	CLA	CAA-C2A-C3A	-2.70	105.39	112.78
12	B	812	CLA	CHD-C4C-NC	2.69	128.45	124.20
12	B	807	CLA	O2A-CGA-CBA	2.69	120.36	111.91
12	A	824	CLA	C4C-C3C-C2C	-2.69	102.97	106.90
12	A	828	CLA	CMC-C2C-C1C	2.69	129.14	125.04
12	A	825	CLA	CMC-C2C-C1C	2.69	129.14	125.04
12	A	821	CLA	CHC-C1C-C2C	-2.69	119.28	126.72
12	A	807	CLA	O2A-CGA-CBA	2.69	120.35	111.91
12	B	805	CLA	O2A-CGA-CBA	2.69	120.34	111.91
12	B	824	CLA	CHD-C4C-NC	2.69	128.44	124.20
12	B	830	CLA	CHD-C4C-NC	2.69	128.44	124.20
12	B	832	CLA	C4C-C3C-C2C	-2.69	102.98	106.90
12	A	839	CLA	CHC-C1C-C2C	-2.69	119.29	126.72
12	A	826	CLA	C4C-C3C-C2C	-2.68	102.98	106.90
12	L	203	CLA	CBC-CAC-C3C	-2.68	105.03	112.43
12	A	824	CLA	O2D-CGD-O1D	-2.68	118.60	123.84
12	A	838	CLA	CHD-C4C-NC	2.68	128.42	124.20
12	L	203	CLA	CHD-C4C-NC	2.68	128.42	124.20
12	A	837	CLA	CAC-C3C-C4C	2.68	128.28	124.81

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	821	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
12	B	808	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
12	A	815	CLA	CHB-C4A-NA	2.67	128.20	124.51
12	A	830	CLA	CAA-C2A-C3A	-2.67	105.48	112.78
15	A	846	BCR	C15-C14-C13	-2.67	123.50	127.31
12	B	822	CLA	CHD-C4C-NC	2.67	128.40	124.20
12	A	830	CLA	C1-C2-C3	-2.67	121.43	126.04
12	B	820	CLA	C3B-C4B-NB	2.66	112.66	109.21
12	A	819	CLA	C1-C2-C3	-2.66	121.44	126.04
12	B	802	CLA	CMB-C2B-C3B	2.66	129.66	124.68
11	A	801	CL0	O2A-CGA-CBA	2.66	120.27	111.91
12	L	204	CLA	CMB-C2B-C3B	2.66	129.66	124.68
12	A	841	CLA	CAC-C3C-C4C	2.66	128.26	124.81
12	A	803	CLA	CAA-C2A-C3A	-2.66	105.49	112.78
12	B	818	CLA	CMB-C2B-C3B	2.66	129.66	124.68
12	A	836	CLA	CHD-C4C-NC	2.66	128.39	124.20
12	L	204	CLA	O2A-CGA-CBA	2.66	120.24	111.91
12	A	817	CLA	CHD-C4C-NC	2.65	128.38	124.20
12	B	824	CLA	CAC-C3C-C4C	2.65	128.25	124.81
12	B	819	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
12	J	101	CLA	CMB-C2B-C3B	2.65	129.64	124.68
12	B	805	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
12	A	816	CLA	CHD-C4C-NC	2.65	128.38	124.20
15	B	835	BCR	C11-C10-C9	-2.65	123.53	127.31
12	B	822	CLA	O2A-CGA-CBA	2.65	120.22	111.91
12	A	840	CLA	C1-C2-C3	-2.65	121.46	126.04
12	B	803	CLA	O2A-CGA-CBA	2.65	120.22	111.91
12	B	832	CLA	O2A-CGA-CBA	2.65	120.22	111.91
12	A	807	CLA	CMB-C2B-C3B	2.65	129.63	124.68
12	B	818	CLA	O2A-CGA-CBA	2.64	120.20	111.91
12	A	813	CLA	CHD-C4C-NC	2.64	128.37	124.20
11	A	801	CL0	CMA-C3A-C2A	-2.64	103.17	113.83
12	B	829	CLA	C4C-C3C-C2C	-2.64	103.05	106.90
12	A	820	CLA	C4-C3-C5	2.64	119.71	115.27
12	A	822	CLA	O2D-CGD-O1D	-2.64	118.67	123.84
12	B	827	CLA	CHD-C4C-NC	2.64	128.36	124.20
12	A	812	CLA	CHD-C4C-NC	2.64	128.36	124.20
12	B	811	CLA	CMD-C2D-C3D	-2.63	121.56	127.61
12	F	203	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
12	A	807	CLA	CHD-C4C-NC	2.63	128.35	124.20
12	A	813	CLA	CAA-C2A-C3A	-2.63	105.58	112.78
12	B	803	CLA	C4A-NA-C1A	-2.62	105.53	106.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	827	CLA	O2D-CGD-O1D	-2.62	118.71	123.84
12	B	814	CLA	CMB-C2B-C3B	2.62	129.59	124.68
12	B	810	CLA	O2A-CGA-CBA	2.62	120.14	111.91
12	B	813	CLA	CHD-C4C-NC	2.62	128.34	124.20
12	B	825	CLA	C4-C3-C5	2.62	119.68	115.27
12	A	834	CLA	CHD-C4C-NC	2.62	128.34	124.20
12	B	801	CLA	O2A-CGA-CBA	2.62	120.13	111.91
15	A	847	BCR	C24-C23-C22	-2.62	122.28	126.23
11	A	801	CL0	CMC-C2C-C1C	2.62	129.03	125.04
12	B	818	CLA	C1-C2-C3	-2.62	121.52	126.04
12	A	829	CLA	CHD-C4C-NC	2.62	128.33	124.20
12	A	843	CLA	CHD-C4C-NC	2.62	128.33	124.20
12	B	823	CLA	O2A-CGA-CBA	2.61	120.11	111.91
15	A	849	BCR	C7-C8-C9	-2.61	122.29	126.23
12	A	837	CLA	CAA-C2A-C3A	-2.61	105.62	112.78
12	B	813	CLA	C4-C3-C5	2.61	119.67	115.27
12	A	820	CLA	CHD-C4C-NC	2.61	128.32	124.20
15	B	836	BCR	C15-C16-C17	-2.61	118.13	123.47
12	A	840	CLA	CHD-C4C-NC	2.61	128.32	124.20
12	A	817	CLA	CHB-C4A-NA	2.61	128.12	124.51
12	A	832	CLA	CAA-CBA-CGA	-2.60	105.64	113.25
12	A	817	CLA	CAC-C3C-C4C	2.60	128.19	124.81
12	J	101	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
15	L	205	BCR	C27-C26-C25	2.60	126.51	122.73
12	B	813	CLA	CMB-C2B-C3B	2.60	129.55	124.68
12	A	804	CLA	CHB-C4A-NA	2.60	128.11	124.51
12	B	816	CLA	CHB-C4A-NA	2.60	128.11	124.51
12	A	826	CLA	C4-C3-C5	2.60	119.64	115.27
12	A	803	CLA	CHD-C4C-NC	2.60	128.30	124.20
12	L	203	CLA	CAC-C3C-C4C	2.60	128.18	124.81
12	A	837	CLA	O2A-CGA-CBA	2.60	120.06	111.91
12	B	815	CLA	CHB-C4A-NA	2.60	128.10	124.51
12	A	807	CLA	C1-C2-C3	-2.59	121.56	126.04
12	A	831	CLA	CHD-C4C-NC	2.59	128.29	124.20
12	A	826	CLA	CMB-C2B-C3B	2.59	129.53	124.68
12	A	839	CLA	CAC-C3C-C4C	2.59	128.17	124.81
12	A	835	CLA	CHB-C4A-NA	2.59	128.09	124.51
15	L	206	BCR	C24-C23-C22	-2.59	122.32	126.23
12	B	816	CLA	CHD-C4C-NC	2.59	128.28	124.20
12	L	203	CLA	CHB-C4A-NA	2.59	128.09	124.51
12	A	831	CLA	CAA-C2A-C3A	-2.58	105.70	112.78
12	B	820	CLA	CMB-C2B-C3B	2.58	129.51	124.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	828	CLA	CMB-C2B-C3B	2.58	129.51	124.68
12	A	841	CLA	CMC-C2C-C1C	2.58	128.97	125.04
12	B	803	CLA	O2D-CGD-O1D	-2.58	118.80	123.84
12	B	813	CLA	C1-C2-C3	-2.58	121.59	126.04
15	A	848	BCR	C40-C30-C25	2.58	114.48	110.30
12	A	831	CLA	CMB-C2B-C3B	2.58	129.50	124.68
12	A	812	CLA	CMB-C2B-C3B	2.57	129.50	124.68
15	B	835	BCR	C3-C4-C5	-2.57	109.49	114.08
12	B	809	CLA	CBA-CAA-C2A	2.57	121.44	113.86
12	A	833	CLA	C4-C3-C5	2.57	119.59	115.27
15	M	101	BCR	C37-C22-C21	-2.57	119.33	122.92
12	A	841	CLA	CMB-C2B-C3B	2.57	129.48	124.68
12	L	203	CLA	CAA-C2A-C3A	-2.57	105.75	112.78
15	A	848	BCR	C30-C25-C26	-2.57	119.00	122.61
15	L	206	BCR	C15-C16-C17	-2.57	118.22	123.47
12	A	825	CLA	O2A-CGA-CBA	2.57	119.96	111.91
17	B	837	LMG	O1-C7-C8	-2.56	104.71	110.90
15	L	205	BCR	C11-C10-C9	-2.56	123.65	127.31
12	A	842	CLA	C4-C3-C5	2.56	119.58	115.27
12	A	812	CLA	O2D-CGD-O1D	-2.56	118.83	123.84
12	A	820	CLA	C4C-C3C-C2C	-2.56	103.17	106.90
15	I	101	BCR	C30-C25-C26	-2.56	119.01	122.61
12	A	823	CLA	O2A-CGA-CBA	2.56	119.94	111.91
12	B	815	CLA	CHD-C4C-NC	2.56	128.24	124.20
12	A	838	CLA	CAA-C2A-C3A	-2.56	105.77	112.78
12	A	822	CLA	CMC-C2C-C1C	2.56	128.93	125.04
12	B	802	CLA	CMA-C3A-C4A	-2.56	104.90	111.77
12	B	803	CLA	CBC-CAC-C3C	-2.56	105.39	112.43
12	A	832	CLA	CMB-C2B-C3B	2.56	129.46	124.68
12	A	811	CLA	C1-C2-C3	-2.56	121.62	126.04
12	B	802	CLA	CHB-C4A-NA	2.55	128.04	124.51
15	A	851	BCR	C1-C6-C5	-2.55	119.02	122.61
12	L	204	CLA	C4-C3-C5	2.55	119.57	115.27
12	A	832	CLA	O2A-CGA-CBA	2.55	119.92	111.91
12	A	804	CLA	CHC-C1C-C2C	-2.55	119.66	126.72
12	B	809	CLA	CHB-C4A-NA	2.55	128.04	124.51
12	A	821	CLA	CHB-C4A-NA	2.55	128.04	124.51
12	B	811	CLA	CHB-C4A-NA	2.55	128.04	124.51
12	B	818	CLA	CAA-C2A-C3A	-2.55	105.79	112.78
12	A	805	CLA	C4-C3-C5	2.55	119.56	115.27
12	B	808	CLA	C7-C6-C5	-2.55	106.44	113.36
12	B	817	CLA	C1-C2-C3	-2.55	121.64	126.04

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	833	CLA	CAC-C3C-C4C	2.55	128.11	124.81
12	B	818	CLA	C4C-C3C-C2C	-2.55	103.19	106.90
12	B	814	CLA	C1-C2-C3	-2.54	121.64	126.04
12	B	821	CLA	CHB-C4A-NA	2.54	128.03	124.51
15	B	835	BCR	C15-C14-C13	-2.54	123.68	127.31
12	A	823	CLA	CHD-C4C-NC	2.54	128.21	124.20
12	A	832	CLA	O2D-CGD-O1D	-2.54	118.87	123.84
12	A	826	CLA	CAA-C2A-C1A	-2.53	103.67	111.97
12	B	809	CLA	O2A-CGA-CBA	2.53	119.86	111.91
12	F	203	CLA	CAA-C2A-C3A	-2.53	105.84	112.78
12	F	203	CLA	CMB-C2B-C3B	2.53	129.42	124.68
12	B	829	CLA	O2A-C1-C2	2.53	115.29	108.64
12	B	811	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
12	B	825	CLA	CHD-C4C-NC	2.53	128.19	124.20
12	A	815	CLA	CAA-C2A-C3A	-2.53	105.85	112.78
12	B	803	CLA	C5-C3-C2	-2.53	116.00	121.12
12	B	829	CLA	O2A-CGA-CBA	2.53	119.84	111.91
16	A	853	LHG	C11-C10-C9	-2.53	101.59	114.42
12	A	818	CLA	C1-C2-C3	-2.53	121.67	126.04
12	B	829	CLA	CAC-C3C-C4C	2.53	128.09	124.81
12	A	814	CLA	CHB-C4A-NA	2.53	128.01	124.51
12	A	808	CLA	CMC-C2C-C1C	2.53	128.88	125.04
15	M	101	BCR	C27-C26-C25	2.52	126.39	122.73
12	A	818	CLA	CHB-C4A-NA	2.52	128.00	124.51
12	A	824	CLA	CHD-C4C-NC	2.52	128.18	124.20
12	J	101	CLA	CHB-C4A-NA	2.52	128.00	124.51
12	B	802	CLA	CHD-C4C-NC	2.52	128.17	124.20
12	B	806	CLA	C4-C3-C5	2.52	119.50	115.27
15	A	850	BCR	C28-C27-C26	-2.52	109.58	114.08
12	B	814	CLA	CMC-C2C-C1C	2.51	128.87	125.04
12	A	819	CLA	CHD-C4C-NC	2.51	128.16	124.20
12	A	842	CLA	CHD-C4C-NC	2.51	128.16	124.20
12	B	831	CLA	O2A-CGA-CBA	2.51	119.79	111.91
12	A	816	CLA	CAA-C2A-C3A	-2.51	105.90	112.78
12	A	816	CLA	CBC-CAC-C3C	-2.51	105.51	112.43
12	A	811	CLA	CMB-C2B-C3B	2.51	129.37	124.68
12	A	830	CLA	O2A-CGA-CBA	2.51	119.78	111.91
12	A	833	CLA	CHB-C4A-NA	2.51	127.98	124.51
12	L	204	CLA	O2D-CGD-O1D	-2.51	118.94	123.84
12	A	805	CLA	CMA-C3A-C4A	-2.50	105.04	111.77
15	B	836	BCR	C27-C26-C25	2.50	126.37	122.73
15	A	846	BCR	C15-C16-C17	-2.50	118.35	123.47

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	826	CLA	CHD-C4C-NC	2.50	128.14	124.20
12	A	833	CLA	CBC-CAC-C3C	-2.50	105.55	112.43
12	B	805	CLA	C4-C3-C5	2.50	119.47	115.27
15	J	104	BCR	C11-C10-C9	-2.49	123.75	127.31
12	B	828	CLA	CAA-C2A-C3A	-2.49	105.95	112.78
12	A	816	CLA	CHB-C4A-NA	2.49	127.96	124.51
12	A	817	CLA	CMB-C2B-C3B	2.49	129.34	124.68
12	B	828	CLA	CMC-C2C-C1C	2.49	128.83	125.04
15	A	848	BCR	C38-C26-C27	-2.49	108.84	113.62
12	A	831	CLA	CHB-C4A-NA	2.49	127.95	124.51
12	B	822	CLA	CMA-C3A-C4A	-2.49	105.09	111.77
12	A	807	CLA	CHB-C4A-NA	2.48	127.95	124.51
12	A	823	CLA	C1-C2-C3	-2.48	121.75	126.04
12	A	815	CLA	CMB-C2B-C3B	2.48	129.33	124.68
12	A	836	CLA	CHB-C4A-NA	2.48	127.95	124.51
11	A	801	CL0	CAC-C3C-C4C	2.48	128.03	124.81
12	L	203	CLA	O2A-CGA-CBA	2.48	119.70	111.91
15	L	206	BCR	C3-C4-C5	-2.48	109.64	114.08
12	A	808	CLA	CHB-C4A-NA	2.48	127.94	124.51
12	B	810	CLA	CHD-C4C-NC	2.48	128.11	124.20
12	B	818	CLA	CMC-C2C-C1C	2.48	128.81	125.04
12	A	835	CLA	C1-C2-C3	-2.48	121.76	126.04
12	B	813	CLA	CHB-C4A-NA	2.48	127.94	124.51
12	B	810	CLA	C4C-C3C-C2C	-2.48	103.29	106.90
12	A	811	CLA	CHB-C4A-NA	2.48	127.94	124.51
12	A	820	CLA	CMB-C2B-C3B	2.48	129.31	124.68
15	A	851	BCR	C28-C27-C26	-2.48	109.66	114.08
12	A	840	CLA	CHB-C4A-NA	2.47	127.93	124.51
12	A	819	CLA	C2A-C3A-C4A	-2.47	97.88	101.87
15	J	104	BCR	C27-C26-C25	2.47	126.32	122.73
12	B	826	CLA	C4-C3-C5	2.47	119.42	115.27
12	B	830	CLA	CMB-C2B-C3B	2.47	129.30	124.68
12	B	804	CLA	CHD-C4C-NC	2.47	128.09	124.20
15	A	847	BCR	C15-C14-C13	-2.46	123.79	127.31
12	B	823	CLA	O1D-CGD-CBD	-2.46	119.45	124.48
12	A	824	CLA	CBC-CAC-C3C	-2.46	105.64	112.43
12	B	803	CLA	CHB-C4A-NA	2.46	127.92	124.51
12	B	827	CLA	CHB-C4A-NA	2.46	127.92	124.51
12	A	807	CLA	CBC-CAC-C3C	-2.46	105.64	112.43
12	A	814	CLA	CMB-C2B-C3B	2.46	129.28	124.68
12	B	831	CLA	CHD-C4C-NC	2.46	128.08	124.20
12	B	802	CLA	CMC-C2C-C1C	2.46	128.78	125.04

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	823	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
12	A	840	CLA	CAA-C2A-C3A	-2.46	106.06	112.78
12	A	828	CLA	C1-C2-C3	-2.45	121.80	126.04
12	A	834	CLA	C1-C2-C3	-2.45	121.80	126.04
12	A	806	CLA	C4-C3-C5	2.45	119.39	115.27
12	A	836	CLA	CMB-C2B-C3B	2.45	129.26	124.68
12	A	843	CLA	O2A-CGA-CBA	2.45	119.59	111.91
12	A	832	CLA	CBC-CAC-C3C	-2.45	105.68	112.43
12	A	806	CLA	C4C-C3C-C2C	-2.45	103.33	106.90
12	B	808	CLA	O2A-CGA-CBA	2.45	119.59	111.91
15	L	205	BCR	C15-C14-C13	-2.45	123.82	127.31
12	A	819	CLA	O2A-CGA-CBA	2.45	119.58	111.91
12	A	839	CLA	CMB-C2B-C3B	2.44	129.25	124.68
12	B	820	CLA	OBD-CAD-C3D	-2.44	122.64	128.52
12	A	820	CLA	CHB-C4A-NA	2.44	127.89	124.51
12	A	831	CLA	CMC-C2C-C1C	2.44	128.76	125.04
12	B	804	CLA	CHC-C1C-NC	2.44	127.91	124.20
12	A	809	CLA	CMC-C2C-C1C	2.44	128.76	125.04
12	A	806	CLA	CHB-C4A-NA	2.44	127.89	124.51
12	A	803	CLA	CMB-C2B-C3B	2.44	129.24	124.68
12	A	835	CLA	CHD-C4C-NC	2.44	128.05	124.20
12	A	817	CLA	C4-C3-C5	2.44	119.38	115.27
12	B	819	CLA	CHB-C4A-NA	2.44	127.89	124.51
15	M	101	BCR	C15-C16-C17	-2.44	118.48	123.47
12	A	806	CLA	CMB-C2B-C3B	2.44	129.24	124.68
12	L	202	CLA	CAC-C3C-C4C	2.44	127.97	124.81
12	A	827	CLA	C4-C3-C5	2.43	119.37	115.27
12	B	807	CLA	CMB-C2B-C3B	2.43	129.23	124.68
12	A	811	CLA	CHD-C4C-NC	2.43	128.04	124.20
12	B	832	CLA	CBC-CAC-C3C	-2.43	105.72	112.43
15	B	836	BCR	C10-C11-C12	-2.43	115.63	123.22
12	B	817	CLA	CHB-C4A-NA	2.43	127.87	124.51
12	B	824	CLA	O2A-CGA-CBA	2.43	119.53	111.91
12	B	822	CLA	CHB-C4A-NA	2.43	127.87	124.51
12	A	832	CLA	C1-C2-C3	-2.43	121.84	126.04
12	B	827	CLA	CBC-CAC-C3C	-2.42	105.75	112.43
15	A	847	BCR	C15-C16-C17	-2.42	118.51	123.47
12	B	818	CLA	O2D-CGD-O1D	-2.42	119.10	123.84
12	B	810	CLA	C4-C3-C5	2.42	119.34	115.27
12	A	836	CLA	O1D-CGD-CBD	-2.42	119.53	124.48
12	B	801	CLA	CMC-C2C-C1C	2.42	128.73	125.04
12	A	813	CLA	O2D-CGD-O1D	-2.42	119.11	123.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	842	CLA	O2D-CGD-O1D	-2.42	119.11	123.84
12	A	810	CLA	CAA-C2A-C3A	-2.42	106.16	112.78
12	A	825	CLA	CHD-C4C-NC	2.42	128.01	124.20
12	B	832	CLA	CAA-C2A-C3A	-2.41	106.17	112.78
12	L	204	CLA	C1-C2-C3	-2.41	121.87	126.04
15	I	101	BCR	C11-C10-C9	-2.41	123.87	127.31
12	A	836	CLA	CAA-C2A-C3A	-2.41	106.17	112.78
12	A	833	CLA	C7-C6-C5	-2.41	106.81	113.36
12	B	809	CLA	O2A-CGA-O1A	-2.41	117.51	123.59
12	A	810	CLA	CHB-C4A-NA	2.41	127.84	124.51
16	A	852	LHG	C11-C10-C9	-2.41	102.19	114.42
12	A	838	CLA	O2A-CGA-O1A	-2.41	117.52	123.59
12	B	813	CLA	O2A-CGA-O1A	-2.41	117.52	123.59
12	A	810	CLA	CBC-CAC-C3C	-2.41	105.79	112.43
12	A	827	CLA	CHB-C4A-NA	2.41	127.84	124.51
12	A	819	CLA	CMB-C2B-C3B	2.41	129.18	124.68
12	A	838	CLA	CBC-CAC-C3C	-2.40	105.80	112.43
12	A	826	CLA	CBC-CAC-C3C	-2.40	105.81	112.43
15	J	102	BCR	C15-C16-C17	-2.40	118.55	123.47
12	A	806	CLA	CBC-CAC-C3C	-2.40	105.81	112.43
12	A	824	CLA	CHB-C4A-NA	2.40	127.83	124.51
12	A	813	CLA	CHB-C4A-NA	2.40	127.83	124.51
12	A	843	CLA	CHB-C4A-NA	2.40	127.83	124.51
12	A	826	CLA	C1-C2-C3	-2.40	121.89	126.04
12	A	830	CLA	O1D-CGD-CBD	-2.40	119.58	124.48
15	A	846	BCR	C11-C10-C9	-2.40	123.89	127.31
12	A	827	CLA	CAC-C3C-C4C	2.40	127.92	124.81
12	A	825	CLA	C1-C2-C3	-2.40	121.90	126.04
16	A	852	LHG	C20-C19-C18	-2.39	102.27	114.42
12	B	812	CLA	O2D-CGD-O1D	-2.39	119.16	123.84
12	B	801	CLA	CHD-C4C-NC	2.39	127.97	124.20
12	B	826	CLA	O1D-CGD-CBD	-2.39	119.59	124.48
12	B	806	CLA	O2A-CGA-O1A	-2.39	117.56	123.59
15	F	201	BCR	C27-C26-C25	2.39	126.20	122.73
12	B	808	CLA	CBA-CAA-C2A	2.38	120.90	113.86
12	A	820	CLA	CAA-C2A-C3A	-2.38	106.25	112.78
12	B	806	CLA	CHD-C4C-NC	2.38	127.96	124.20
12	A	827	CLA	O1D-CGD-CBD	-2.38	119.61	124.48
12	F	203	CLA	CHD-C4C-NC	2.38	127.95	124.20
12	A	838	CLA	CHB-C4A-NA	2.38	127.80	124.51
12	A	839	CLA	CBC-CAC-C3C	-2.38	105.87	112.43
12	B	801	CLA	O2D-CGD-O1D	-2.38	119.19	123.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	L	206	BCR	C37-C22-C21	-2.38	119.59	122.92
12	B	822	CLA	C1-C2-C3	-2.38	121.93	126.04
12	B	811	CLA	CHA-C1A-NA	-2.38	120.95	126.40
12	A	816	CLA	O2A-CGA-CBA	2.38	119.37	111.91
12	B	825	CLA	CHB-C4A-NA	2.37	127.79	124.51
12	B	821	CLA	O1D-CGD-CBD	-2.37	119.63	124.48
12	L	202	CLA	CHB-C4A-NA	2.37	127.79	124.51
12	A	837	CLA	CHD-C4C-NC	2.37	127.94	124.20
17	B	837	LMG	O3-C3-C2	-2.37	104.87	110.35
12	A	809	CLA	CAA-C2A-C3A	-2.37	106.29	112.78
12	A	811	CLA	O2D-CGD-O1D	-2.37	119.21	123.84
15	L	206	BCR	C28-C27-C26	-2.37	109.85	114.08
12	L	202	CLA	CBC-CAC-C3C	-2.37	105.91	112.43
15	A	847	BCR	C11-C10-C9	-2.37	123.93	127.31
15	L	201	BCR	C15-C14-C13	-2.36	123.94	127.31
12	B	812	CLA	CHB-C4A-NA	2.36	127.78	124.51
12	B	810	CLA	CAA-C2A-C3A	-2.36	106.31	112.78
12	A	835	CLA	CBC-CAC-C3C	-2.36	105.92	112.43
12	B	822	CLA	CMB-C2B-C3B	2.36	129.09	124.68
12	B	802	CLA	O2A-CGA-CBA	2.36	119.31	111.91
12	A	830	CLA	CHB-C4A-NA	2.36	127.77	124.51
12	B	811	CLA	CMC-C2C-C1C	2.36	128.63	125.04
12	B	832	CLA	CHD-C4C-NC	2.36	127.92	124.20
12	B	811	CLA	CBC-CAC-C3C	-2.36	105.94	112.43
12	A	817	CLA	CAA-C2A-C3A	-2.35	106.33	112.78
13	B	833	PQN	C16-C15-C13	-2.35	107.28	113.45
12	B	807	CLA	C4C-C3C-C2C	-2.35	103.47	106.90
12	A	819	CLA	O2D-CGD-O1D	-2.35	119.24	123.84
12	A	821	CLA	CBC-CAC-C3C	-2.35	105.95	112.43
12	B	818	CLA	CBC-CAC-C3C	-2.35	105.96	112.43
12	A	839	CLA	CHB-C4A-NA	2.35	127.76	124.51
12	B	828	CLA	O2D-CGD-O1D	-2.35	119.25	123.84
12	A	827	CLA	C1-C2-C3	-2.34	121.99	126.04
12	B	823	CLA	CAA-C2A-C3A	-2.34	106.36	112.78
15	L	206	BCR	C15-C14-C13	-2.34	123.97	127.31
12	B	811	CLA	CBA-CAA-C2A	2.34	120.78	113.86
12	B	811	CLA	CHD-C4C-NC	2.34	127.89	124.20
12	B	819	CLA	CAA-C2A-C1A	-2.34	104.31	111.97
12	B	815	CLA	CMB-C2B-C3B	2.33	129.05	124.68
12	B	815	CLA	CBC-CAC-C3C	-2.33	106.00	112.43
15	I	101	BCR	C7-C8-C9	-2.33	122.71	126.23
12	A	811	CLA	C4-C3-C5	2.33	119.19	115.27

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	818	CLA	C2A-C3A-C4A	-2.33	98.10	101.87
12	A	833	CLA	CMA-C3A-C4A	-2.33	105.51	111.77
15	F	202	BCR	C16-C15-C14	-2.33	118.71	123.47
12	B	816	CLA	C4-C3-C5	2.32	119.18	115.27
12	A	803	CLA	CHB-C4A-NA	2.32	127.72	124.51
12	L	202	CLA	O2D-CGD-O1D	-2.32	119.30	123.84
12	A	842	CLA	CMB-C2B-C3B	2.32	129.02	124.68
12	A	830	CLA	CHD-C4C-NC	2.32	127.86	124.20
12	A	812	CLA	CHB-C4A-NA	2.32	127.72	124.51
12	A	833	CLA	O2A-CGA-O1A	-2.32	117.75	123.59
12	A	842	CLA	CHB-C4A-NA	2.32	127.71	124.51
12	B	832	CLA	CHB-C4A-NA	2.32	127.71	124.51
12	B	804	CLA	C4A-NA-C1A	-2.32	105.67	106.71
12	A	828	CLA	CHA-C1A-NA	-2.32	121.10	126.40
12	B	831	CLA	CHB-C4A-NA	2.31	127.71	124.51
12	A	822	CLA	C4C-C3C-C2C	-2.31	103.52	106.90
12	A	808	CLA	CBC-CAC-C3C	-2.31	106.05	112.43
12	B	802	CLA	CBC-CAC-C3C	-2.31	106.05	112.43
15	A	848	BCR	C7-C8-C9	-2.31	122.74	126.23
12	A	836	CLA	CBC-CAC-C3C	-2.31	106.06	112.43
16	A	852	LHG	O8-C23-O10	-2.31	117.77	123.59
12	A	854	CLA	CHD-C4C-NC	2.31	127.84	124.20
12	B	813	CLA	O1D-CGD-CBD	-2.30	119.77	124.48
15	L	206	BCR	C29-C30-C25	2.30	114.03	110.48
12	B	823	CLA	C1-C2-C3	-2.30	122.06	126.04
16	A	852	LHG	O8-C23-C24	2.30	119.13	111.91
16	A	852	LHG	C27-C26-C25	-2.30	102.74	114.42
12	A	830	CLA	C6-C7-C8	-2.30	108.49	115.92
12	B	830	CLA	CHB-C4A-NA	2.30	127.69	124.51
12	B	816	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
12	A	828	CLA	CHB-C4A-NA	2.30	127.69	124.51
12	B	819	CLA	CMD-C2D-C3D	-2.30	122.33	127.61
12	A	807	CLA	CMC-C2C-C1C	2.30	128.54	125.04
15	F	202	BCR	C27-C26-C25	2.30	126.06	122.73
12	A	817	CLA	O2D-CGD-O1D	-2.30	119.35	123.84
12	A	833	CLA	CMC-C2C-C1C	2.29	128.53	125.04
15	A	851	BCR	C29-C30-C25	2.29	114.01	110.48
12	B	806	CLA	CMA-C3A-C4A	-2.29	105.61	111.77
12	A	843	CLA	CMB-C2B-C3B	2.29	128.97	124.68
12	B	826	CLA	CBC-CAC-C3C	-2.29	106.11	112.43
15	F	201	BCR	C15-C14-C13	-2.29	124.04	127.31
12	L	203	CLA	O2D-CGD-O1D	-2.29	119.36	123.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	832	CLA	CMC-C2C-C3C	2.29	132.34	126.12
12	A	824	CLA	CMC-C2C-C1C	2.29	128.53	125.04
12	A	826	CLA	CHB-C4A-NA	2.29	127.68	124.51
15	I	101	BCR	C15-C14-C13	-2.29	124.04	127.31
15	B	834	BCR	C15-C14-C13	-2.29	124.05	127.31
12	B	817	CLA	C4-C3-C5	2.29	119.12	115.27
12	B	811	CLA	O2A-CGA-O1A	-2.29	117.82	123.59
12	A	841	CLA	C1-C2-C3	-2.29	122.09	126.04
15	F	202	BCR	C11-C10-C9	-2.28	124.05	127.31
12	B	809	CLA	CMB-C2B-C3B	2.28	128.95	124.68
12	J	101	CLA	CMC-C2C-C1C	2.28	128.52	125.04
12	B	832	CLA	C1-C2-C3	-2.28	122.09	126.04
12	B	827	CLA	CMC-C2C-C1C	2.28	128.51	125.04
12	A	826	CLA	O2D-CGD-O1D	-2.28	119.38	123.84
12	B	832	CLA	CHC-C1C-NC	2.28	127.66	124.20
12	A	802	CLA	CAC-C3C-C4C	2.28	127.76	124.81
15	L	201	BCR	C24-C23-C22	-2.28	122.80	126.23
12	B	816	CLA	O2A-CGA-CBA	2.28	119.05	111.91
12	B	808	CLA	C4-C3-C5	2.27	119.10	115.27
12	B	802	CLA	O2D-CGD-O1D	-2.27	119.39	123.84
12	A	835	CLA	CMC-C2C-C1C	2.27	128.50	125.04
12	B	811	CLA	CMB-C2B-C3B	2.27	128.93	124.68
12	B	829	CLA	O2D-CGD-O1D	-2.27	119.40	123.84
12	B	817	CLA	O2D-CGD-O1D	-2.27	119.40	123.84
12	A	818	CLA	C4-C3-C5	2.27	119.08	115.27
12	B	824	CLA	CHB-C4A-NA	2.26	127.64	124.51
12	A	827	CLA	CMB-C2B-C3B	2.26	128.91	124.68
12	A	833	CLA	CMA-C3A-C2A	-2.26	104.69	113.83
12	A	838	CLA	O1D-CGD-CBD	-2.26	119.85	124.48
15	A	850	BCR	C11-C10-C9	-2.26	124.08	127.31
12	A	837	CLA	CMD-C2D-C3D	-2.26	122.41	127.61
12	B	821	CLA	CHA-C1A-NA	-2.26	121.22	126.40
12	B	829	CLA	O2A-CGA-O1A	-2.26	117.89	123.59
15	A	849	BCR	C15-C16-C17	-2.26	118.85	123.47
12	A	837	CLA	O1D-CGD-CBD	-2.26	119.86	124.48
17	B	837	LMG	C38-C37-C36	-2.26	102.96	114.42
12	B	822	CLA	CBC-CAC-C3C	-2.26	106.21	112.43
12	J	101	CLA	CBC-CAC-C3C	-2.26	106.21	112.43
12	A	825	CLA	CED-O2D-CGD	2.26	121.04	115.94
12	F	203	CLA	CBC-CAC-C3C	-2.26	106.21	112.43
12	B	820	CLA	CHA-C1A-NA	-2.25	121.23	126.40
12	A	809	CLA	CBC-CAC-C3C	-2.25	106.22	112.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	826	CLA	CMD-C2D-C3D	-2.25	122.43	127.61
12	A	826	CLA	CMC-C2C-C1C	2.25	128.47	125.04
12	A	810	CLA	CMC-C2C-C1C	2.25	128.47	125.04
12	A	818	CLA	CBA-CAA-C2A	2.25	120.50	113.86
12	B	814	CLA	O2D-CGD-O1D	-2.25	119.44	123.84
12	A	815	CLA	O2D-CGD-O1D	-2.25	119.44	123.84
12	B	829	CLA	CMB-C2B-C3B	2.25	128.88	124.68
15	L	201	BCR	C16-C15-C14	-2.25	118.87	123.47
12	B	824	CLA	CAA-CBA-CGA	-2.24	106.70	113.25
12	B	812	CLA	CMB-C2B-C3B	2.24	128.87	124.68
15	J	103	BCR	C15-C16-C17	-2.24	118.88	123.47
12	A	854	CLA	O1D-CGD-CBD	-2.24	119.90	124.48
12	A	819	CLA	C4-C3-C5	2.24	119.04	115.27
12	A	807	CLA	O2D-CGD-O1D	-2.24	119.46	123.84
15	B	834	BCR	C11-C10-C9	-2.24	124.12	127.31
12	B	810	CLA	CHC-C1C-NC	2.24	127.60	124.20
12	B	818	CLA	CHA-C1A-NA	-2.24	121.28	126.40
12	A	825	CLA	C4-C3-C5	2.24	119.03	115.27
15	I	101	BCR	C28-C27-C26	-2.23	110.09	114.08
12	A	836	CLA	CMC-C2C-C1C	2.23	128.44	125.04
12	B	831	CLA	CMC-C2C-C1C	2.23	128.44	125.04
12	B	824	CLA	O2D-CGD-O1D	-2.23	119.47	123.84
15	A	849	BCR	C24-C23-C22	-2.23	122.86	126.23
17	B	837	LMG	C42-C41-C40	-2.23	103.10	114.42
12	B	816	CLA	C1-C2-C3	-2.23	122.19	126.04
15	A	850	BCR	C29-C30-C25	2.23	113.91	110.48
12	A	805	CLA	C1-C2-C3	-2.23	122.19	126.04
12	B	832	CLA	C4-C3-C5	2.23	119.02	115.27
12	A	838	CLA	CMC-C2C-C1C	2.22	128.43	125.04
12	A	822	CLA	CMB-C2B-C3B	2.22	128.83	124.68
12	A	815	CLA	CBC-CAC-C3C	-2.22	106.31	112.43
12	A	829	CLA	O2A-CGA-O1A	-2.22	117.99	123.59
12	B	819	CLA	O1D-CGD-CBD	-2.22	119.94	124.48
12	L	202	CLA	CBA-CAA-C2A	2.22	120.42	113.86
12	B	812	CLA	CMA-C3A-C2A	-2.22	104.88	113.83
12	A	829	CLA	CHB-C4A-NA	2.22	127.58	124.51
15	B	836	BCR	C16-C15-C14	-2.22	118.93	123.47
12	A	805	CLA	CMC-C2C-C1C	2.21	128.41	125.04
12	A	828	CLA	O1D-CGD-CBD	-2.21	119.96	124.48
12	B	810	CLA	O2D-CGD-O1D	-2.21	119.52	123.84
12	A	825	CLA	O2D-CGD-O1D	-2.21	119.52	123.84
12	B	831	CLA	O2D-CGD-O1D	-2.21	119.53	123.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	841	CLA	CBC-CAC-C3C	-2.20	106.36	112.43
15	J	103	BCR	C16-C15-C14	-2.20	118.96	123.47
12	B	808	CLA	CMC-C2C-C1C	2.20	128.39	125.04
12	B	810	CLA	CAA-CBA-CGA	-2.20	106.83	113.25
12	A	831	CLA	O1D-CGD-CBD	-2.20	119.98	124.48
12	A	827	CLA	CMC-C2C-C1C	2.20	128.39	125.04
12	B	807	CLA	CMC-C2C-C1C	2.20	128.39	125.04
12	A	841	CLA	CHB-C4A-NA	2.20	127.55	124.51
12	A	812	CLA	C1-C2-C3	-2.20	122.24	126.04
12	A	842	CLA	C1-C2-C3	-2.20	122.24	126.04
12	A	832	CLA	CMC-C2C-C1C	2.20	128.38	125.04
15	B	835	BCR	C24-C23-C22	-2.20	122.92	126.23
12	B	806	CLA	CBA-CAA-C2A	2.19	120.34	113.86
12	B	831	CLA	C1-C2-C3	-2.19	122.25	126.04
12	B	804	CLA	O2A-CGA-CBA	2.19	118.79	111.91
12	J	101	CLA	CAA-C2A-C3A	-2.19	106.78	112.78
12	A	816	CLA	O2D-CGD-O1D	-2.19	119.55	123.84
12	A	841	CLA	O2D-CGD-O1D	-2.19	119.56	123.84
17	B	837	LMG	C40-C39-C38	-2.19	103.31	114.42
12	A	826	CLA	CAC-C3C-C4C	2.19	127.65	124.81
12	B	822	CLA	CMC-C2C-C1C	2.18	128.36	125.04
12	A	805	CLA	O2A-CGA-CBA	2.18	118.75	111.91
15	A	847	BCR	C28-C27-C26	-2.18	110.18	114.08
15	M	101	BCR	C15-C14-C13	-2.18	124.20	127.31
15	L	201	BCR	C27-C26-C25	2.18	125.89	122.73
12	B	831	CLA	CMD-C2D-C3D	-2.18	122.60	127.61
12	B	811	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
15	J	102	BCR	C24-C23-C22	-2.18	122.94	126.23
15	A	846	BCR	C30-C25-C26	-2.18	119.55	122.61
12	A	823	CLA	CHA-C1A-NA	-2.18	121.41	126.40
12	B	805	CLA	CAA-C2A-C3A	-2.18	106.82	112.78
12	A	812	CLA	CMC-C2C-C1C	2.18	128.35	125.04
12	B	812	CLA	CMC-C2C-C1C	2.18	128.35	125.04
12	A	803	CLA	O2A-CGA-CBA	2.18	121.02	114.03
12	A	802	CLA	O2D-CGD-O1D	-2.18	119.58	123.84
12	L	204	CLA	CHB-C4A-NA	2.18	127.52	124.51
12	A	821	CLA	C1-C2-C3	-2.18	122.28	126.04
12	A	822	CLA	CHB-C4A-NA	2.17	127.52	124.51
12	B	831	CLA	C1-O2A-CGA	2.17	122.15	116.44
11	A	801	CL0	C4-C3-C5	2.17	118.93	115.27
12	B	831	CLA	C4-C3-C5	2.17	118.92	115.27
12	B	827	CLA	CMB-C2B-C3B	2.17	128.74	124.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	854	CLA	C4D-C3D-CAD	-2.17	105.54	108.10
12	A	835	CLA	C4-C3-C5	2.17	118.92	115.27
15	L	206	BCR	C20-C21-C22	-2.17	124.22	127.31
12	B	831	CLA	CBC-CAC-C3C	-2.16	106.47	112.43
12	A	819	CLA	CBC-CAC-C3C	-2.16	106.47	112.43
12	B	806	CLA	CHA-C1A-NA	-2.16	121.45	126.40
12	B	828	CLA	CHB-C4A-NA	2.16	127.50	124.51
12	L	204	CLA	CMC-C2C-C1C	2.16	128.33	125.04
15	A	846	BCR	C39-C30-C25	2.16	113.80	110.30
15	B	836	BCR	C21-C20-C19	-2.16	116.48	123.22
12	B	823	CLA	CBC-CAC-C3C	-2.16	106.48	112.43
12	A	805	CLA	CBA-CAA-C2A	2.16	120.23	113.86
12	A	810	CLA	O2D-CGD-O1D	-2.15	119.62	123.84
12	A	817	CLA	C1-C2-C3	-2.15	122.32	126.04
12	A	829	CLA	CMB-C2B-C3B	2.15	128.71	124.68
12	A	802	CLA	CMB-C2B-C1B	-2.15	125.16	128.46
12	A	833	CLA	CMB-C2B-C3B	2.15	128.70	124.68
12	B	819	CLA	C2A-C3A-C4A	-2.15	98.40	101.87
12	B	804	CLA	O2D-CGD-O1D	-2.15	119.64	123.84
12	A	825	CLA	CGD-CBD-CAD	-2.15	103.77	110.73
12	A	854	CLA	CMA-C3A-C4A	-2.15	106.00	111.77
12	B	831	CLA	CAA-C2A-C3A	-2.15	106.90	112.78
12	A	814	CLA	O1D-CGD-CBD	-2.15	120.09	124.48
15	I	101	BCR	C15-C16-C17	-2.15	119.08	123.47
12	A	840	CLA	C11-C10-C8	-2.15	108.98	115.92
12	A	843	CLA	CAC-C3C-C4C	2.15	127.59	124.81
15	J	103	BCR	C38-C26-C25	-2.15	122.12	124.53
12	A	854	CLA	C1-O2A-CGA	2.14	122.07	116.44
12	A	808	CLA	CHA-C1A-NA	-2.14	121.49	126.40
12	B	810	CLA	CMB-C2B-C3B	2.14	128.69	124.68
12	B	811	CLA	CED-O2D-CGD	2.14	120.77	115.94
12	A	802	CLA	CMC-C2C-C1C	2.14	128.29	125.04
12	A	804	CLA	O1D-CGD-CBD	-2.14	120.11	124.48
12	A	826	CLA	CAA-CBA-CGA	-2.14	107.01	113.25
12	A	803	CLA	O1D-CGD-CBD	-2.14	120.11	124.48
12	A	830	CLA	C6-C5-C3	-2.14	107.86	113.45
12	A	828	CLA	O2D-CGD-O1D	-2.13	119.66	123.84
12	A	809	CLA	CHB-C4A-NA	2.13	127.46	124.51
12	A	825	CLA	CAA-C2A-C3A	-2.13	106.95	112.78
12	L	202	CLA	CMC-C2C-C1C	2.13	128.28	125.04
15	I	101	BCR	C24-C23-C22	-2.13	123.02	126.23
12	B	826	CLA	O2A-CGA-O1A	-2.13	118.22	123.59

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	A	849	BCR	C28-C27-C26	-2.13	110.28	114.08
12	B	816	CLA	CMC-C2C-C1C	2.13	128.28	125.04
12	F	203	CLA	CHB-C4A-NA	2.13	127.45	124.51
12	F	203	CLA	CMC-C2C-C1C	2.12	128.27	125.04
12	B	826	CLA	CHB-C4A-NA	2.12	127.45	124.51
12	B	807	CLA	C2A-C3A-C4A	-2.12	98.44	101.87
12	A	814	CLA	CAA-C2A-C3A	-2.12	106.97	112.78
12	A	814	CLA	CHA-C1A-NA	-2.12	121.55	126.40
12	A	804	CLA	CAA-C2A-C3A	-2.12	106.98	112.78
12	A	832	CLA	CHB-C4A-NA	2.12	127.44	124.51
12	A	809	CLA	O2A-CGA-CBA	2.12	120.83	114.03
12	B	830	CLA	CMC-C2C-C1C	2.12	128.26	125.04
15	A	850	BCR	C35-C13-C14	-2.11	119.96	122.92
12	B	832	CLA	CAC-C3C-C4C	2.11	127.55	124.81
15	A	847	BCR	C33-C5-C6	-2.11	122.16	124.53
12	A	824	CLA	CMB-C2B-C3B	2.11	128.63	124.68
12	B	821	CLA	C1-C2-C3	-2.11	122.39	126.04
16	A	852	LHG	C18-C17-C16	-2.11	103.70	114.42
15	L	205	BCR	C15-C16-C17	-2.11	119.15	123.47
15	B	835	BCR	C7-C8-C9	-2.11	123.04	126.23
12	B	802	CLA	C1-C2-C3	-2.11	122.39	126.04
12	B	829	CLA	CED-O2D-CGD	2.11	120.71	115.94
15	A	849	BCR	C15-C14-C13	-2.11	124.30	127.31
12	A	831	CLA	CBC-CAC-C3C	-2.11	106.62	112.43
12	A	820	CLA	O1D-CGD-CBD	-2.11	120.17	124.48
12	A	840	CLA	CBC-CAC-C3C	-2.11	106.62	112.43
12	A	824	CLA	O2A-CGA-O1A	-2.10	118.28	123.59
12	A	839	CLA	C5-C3-C4	2.10	119.24	114.60
12	A	807	CLA	CED-O2D-CGD	2.10	120.68	115.94
15	F	201	BCR	C16-C15-C14	-2.10	119.18	123.47
12	A	838	CLA	C4-C3-C5	2.10	118.80	115.27
12	B	814	CLA	C4-C3-C5	2.10	118.80	115.27
12	A	812	CLA	CBC-CAC-C3C	-2.09	106.66	112.43
12	A	806	CLA	C11-C12-C13	-2.09	109.15	115.92
12	B	814	CLA	CBC-CAC-C3C	-2.09	106.66	112.43
12	A	823	CLA	CMC-C2C-C1C	2.09	128.23	125.04
12	A	806	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
12	A	807	CLA	CAA-C2A-C3A	-2.09	107.05	112.78
12	A	823	CLA	CAA-C2A-C3A	-2.09	107.05	112.78
12	A	821	CLA	CMB-C2B-C3B	2.09	128.59	124.68
15	A	848	BCR	C16-C17-C18	-2.09	124.33	127.31
12	A	840	CLA	CHA-C1A-NA	-2.09	121.61	126.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B	825	CLA	CHA-C1A-NA	-2.09	121.61	126.40
12	A	840	CLA	C11-C12-C13	-2.09	109.17	115.92
12	B	825	CLA	C6-C7-C8	-2.09	109.17	115.92
11	A	801	CL0	O1D-CGD-CBD	-2.09	120.22	124.48
12	B	810	CLA	CHA-C1A-NA	-2.09	121.62	126.40
12	B	820	CLA	CAC-C3C-C4C	2.08	127.52	124.81
12	A	818	CLA	CHA-C1A-NA	-2.08	121.63	126.40
12	B	820	CLA	CMC-C2C-C1C	2.08	128.21	125.04
15	F	202	BCR	C35-C13-C14	-2.08	120.01	122.92
12	A	839	CLA	CAA-C2A-C3A	-2.08	107.08	112.78
12	L	203	CLA	CMB-C2B-C3B	2.08	128.57	124.68
12	B	820	CLA	CHB-C4A-NA	2.08	127.39	124.51
12	A	805	CLA	CMD-C2D-C3D	-2.08	122.83	127.61
12	B	817	CLA	CMC-C2C-C1C	2.08	128.20	125.04
12	A	829	CLA	O2D-CGD-O1D	-2.08	119.78	123.84
12	A	820	CLA	CHA-C1A-NA	-2.08	121.64	126.40
12	B	823	CLA	CHB-C4A-NA	2.08	127.38	124.51
12	A	825	CLA	CHA-C1A-NA	-2.08	121.64	126.40
12	A	802	CLA	O2A-CGA-CBA	2.07	120.70	114.03
12	A	804	CLA	CBC-CAC-C3C	-2.07	106.71	112.43
12	L	203	CLA	CMC-C2C-C1C	2.07	128.20	125.04
15	J	104	BCR	C24-C23-C22	-2.07	123.11	126.23
12	A	813	CLA	CHA-C1A-NA	-2.07	121.66	126.40
15	A	851	BCR	C16-C15-C14	-2.07	119.23	123.47
15	J	102	BCR	C27-C26-C25	2.07	125.73	122.73
15	A	846	BCR	C7-C8-C9	-2.07	123.11	126.23
12	A	811	CLA	CBC-CAC-C3C	-2.07	106.73	112.43
12	B	811	CLA	O2A-C1-C2	-2.07	103.20	108.64
12	A	834	CLA	C11-C10-C8	-2.07	109.24	115.92
12	A	819	CLA	CHC-C1C-NC	2.07	127.34	124.20
12	A	809	CLA	CMB-C2B-C3B	2.07	128.54	124.68
12	A	839	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
12	A	835	CLA	O2D-CGD-O1D	-2.06	119.80	123.84
15	L	205	BCR	C33-C5-C6	-2.06	122.21	124.53
15	J	104	BCR	C3-C4-C5	-2.06	110.39	114.08
12	A	830	CLA	CBC-CAC-C3C	-2.06	106.75	112.43
12	B	828	CLA	CHA-C1A-NA	-2.06	121.69	126.40
12	B	818	CLA	C4-C3-C5	2.06	118.73	115.27
12	B	825	CLA	C1-C2-C3	-2.05	122.49	126.04
12	A	827	CLA	OBD-CAD-C3D	-2.05	123.58	128.52
12	B	802	CLA	CED-O2D-CGD	2.05	120.58	115.94
15	A	847	BCR	C29-C30-C25	2.05	113.64	110.48

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	805	CLA	CHC-C1C-NC	2.05	127.32	124.20
12	B	807	CLA	CED-O2D-CGD	2.05	120.58	115.94
12	A	818	CLA	O2D-CGD-O1D	-2.05	119.83	123.84
12	A	809	CLA	CAA-CBA-CGA	-2.05	107.07	112.51
17	B	837	LMG	O2-C2-C1	-2.05	105.07	110.05
12	A	823	CLA	CHB-C4A-NA	2.05	127.35	124.51
12	A	834	CLA	C1B-CHB-C4A	-2.05	126.06	130.12
12	A	823	CLA	CBC-CAC-C3C	-2.05	106.79	112.43
12	B	828	CLA	O1D-CGD-CBD	-2.04	120.30	124.48
12	B	829	CLA	CMC-C2C-C1C	2.04	128.15	125.04
12	B	806	CLA	CHC-C1C-NC	2.04	127.30	124.20
12	A	802	CLA	CBC-CAC-C3C	-2.04	106.80	112.43
15	B	834	BCR	C24-C23-C22	-2.04	123.15	126.23
12	A	805	CLA	CAA-C2A-C3A	-2.04	107.19	112.78
15	L	206	BCR	C11-C10-C9	-2.04	124.40	127.31
12	J	101	CLA	O2A-CGA-CBA	2.04	120.59	114.03
15	J	102	BCR	C15-C14-C13	-2.04	124.40	127.31
12	A	814	CLA	CBC-CAC-C3C	-2.04	106.81	112.43
12	B	809	CLA	C1-C2-C3	-2.04	122.52	126.04
12	B	808	CLA	CHB-C4A-NA	2.04	127.33	124.51
12	A	822	CLA	CAC-C3C-C4C	2.04	127.45	124.81
12	A	816	CLA	CMB-C2B-C3B	2.03	128.48	124.68
12	A	822	CLA	CBC-CAC-C3C	-2.03	106.82	112.43
15	J	103	BCR	C7-C8-C9	-2.03	123.16	126.23
12	B	822	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
12	B	825	CLA	CMB-C2B-C3B	2.03	128.48	124.68
12	A	842	CLA	CMC-C2C-C1C	2.03	128.13	125.04
12	B	822	CLA	O2D-CGD-O1D	-2.03	119.87	123.84
12	A	840	CLA	CED-O2D-CGD	2.03	120.53	115.94
12	A	835	CLA	C1B-CHB-C4A	-2.03	126.10	130.12
12	B	810	CLA	CHB-C4A-NA	2.03	127.32	124.51
15	F	201	BCR	C38-C26-C27	-2.03	109.72	113.62
12	B	816	CLA	CED-O2D-CGD	2.03	120.52	115.94
15	A	851	BCR	C32-C1-C6	2.03	113.58	110.30
12	A	805	CLA	C1-O2A-CGA	2.03	121.76	116.44
12	B	821	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
12	B	824	CLA	CED-O2D-CGD	2.02	120.52	115.94
12	B	815	CLA	O1D-CGD-CBD	-2.02	120.35	124.48
12	A	804	CLA	CHA-C1A-NA	-2.02	121.77	126.40
12	A	833	CLA	CED-O2D-CGD	2.02	120.51	115.94
12	B	810	CLA	C11-C12-C13	-2.02	109.40	115.92
15	A	846	BCR	C33-C5-C6	-2.02	122.26	124.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	812	CLA	CHA-C1A-NA	-2.02	121.78	126.40
12	B	801	CLA	C4D-CHA-C1A	2.02	123.70	121.25
12	B	825	CLA	CGD-CBD-CAD	-2.02	104.21	110.73
12	A	839	CLA	O1D-CGD-CBD	-2.01	120.36	124.48
15	L	201	BCR	C15-C16-C17	-2.01	119.35	123.47
12	B	815	CLA	CAA-C2A-C3A	-2.01	107.26	112.78
12	B	804	CLA	C1-O2A-CGA	2.01	121.72	116.44
11	A	801	CL0	CHA-C1A-NA	-2.01	121.79	126.40
12	B	809	CLA	O1D-CGD-CBD	-2.01	120.37	124.48
12	B	809	CLA	CMC-C2C-C1C	2.01	128.10	125.04
12	A	822	CLA	CHA-C1A-NA	-2.01	121.80	126.40
12	A	803	CLA	O2A-CGA-O1A	-2.01	118.30	123.30
12	B	810	CLA	C2A-C3A-C4A	-2.01	98.63	101.87
12	B	809	CLA	C4-C3-C5	2.01	118.65	115.27
15	A	851	BCR	C24-C23-C22	-2.01	123.20	126.23
12	A	829	CLA	C4-C3-C5	2.01	118.64	115.27
15	A	849	BCR	C27-C26-C25	2.00	125.64	122.73
12	B	804	CLA	C4-C3-C5	2.00	118.64	115.27
13	A	844	PQN	C11-C12-C13	-2.00	123.46	126.79
12	A	829	CLA	CMA-C3A-C4A	-2.00	106.39	111.77
12	B	832	CLA	C16-C15-C13	-2.00	109.45	115.92
12	A	829	CLA	CHA-C1A-NA	-2.00	121.82	126.40

All (68) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
11	A	801	CL0	NC
11	A	801	CL0	NA
11	A	801	CL0	ND
12	A	802	CLA	ND
12	A	803	CLA	ND
12	A	804	CLA	ND
12	A	805	CLA	ND
12	A	806	CLA	ND
12	A	807	CLA	ND
12	A	808	CLA	ND
12	A	809	CLA	ND
12	A	810	CLA	ND
12	A	811	CLA	ND
12	A	813	CLA	ND
12	A	814	CLA	ND
12	A	816	CLA	ND

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atom
12	A	818	CLA	ND
12	A	819	CLA	ND
12	A	820	CLA	ND
12	A	821	CLA	ND
12	A	824	CLA	ND
12	A	825	CLA	ND
12	A	826	CLA	ND
12	A	827	CLA	ND
12	A	828	CLA	ND
12	A	829	CLA	ND
12	A	830	CLA	ND
12	A	831	CLA	ND
12	A	832	CLA	ND
12	A	833	CLA	ND
12	A	835	CLA	ND
12	A	836	CLA	ND
12	A	837	CLA	ND
12	A	838	CLA	ND
12	A	840	CLA	ND
12	A	841	CLA	ND
12	A	842	CLA	ND
12	A	854	CLA	ND
12	B	801	CLA	ND
12	B	802	CLA	ND
12	B	803	CLA	ND
12	B	804	CLA	ND
12	B	805	CLA	ND
12	B	806	CLA	ND
12	B	807	CLA	ND
12	B	808	CLA	ND
12	B	809	CLA	ND
12	B	810	CLA	ND
12	B	811	CLA	ND
12	B	812	CLA	ND
12	B	813	CLA	ND
12	B	814	CLA	ND
12	B	815	CLA	ND
12	B	817	CLA	ND
12	B	818	CLA	ND
12	B	819	CLA	ND
12	B	820	CLA	ND
12	B	821	CLA	ND

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atom
12	B	822	CLA	ND
12	B	823	CLA	ND
12	B	825	CLA	ND
12	B	826	CLA	ND
12	B	828	CLA	ND
12	B	829	CLA	ND
12	B	830	CLA	ND
12	B	832	CLA	ND
12	F	203	CLA	ND
12	J	101	CLA	ND

All (948) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
12	A	803	CLA	CHA-CBD-CGD-O1D
12	A	803	CLA	CHA-CBD-CGD-O2D
12	A	804	CLA	CHA-CBD-CGD-O1D
12	A	804	CLA	CHA-CBD-CGD-O2D
12	A	805	CLA	C1A-C2A-CAA-CBA
12	A	805	CLA	C3A-C2A-CAA-CBA
12	A	806	CLA	C1A-C2A-CAA-CBA
12	A	807	CLA	C2-C3-C5-C6
12	A	807	CLA	C4-C3-C5-C6
12	A	808	CLA	C1A-C2A-CAA-CBA
12	A	808	CLA	C3A-C2A-CAA-CBA
12	A	815	CLA	C2A-CAA-CBA-CGA
12	A	818	CLA	C3A-C2A-CAA-CBA
12	A	819	CLA	C1A-C2A-CAA-CBA
12	A	819	CLA	C3A-C2A-CAA-CBA
12	A	819	CLA	CHA-CBD-CGD-O1D
12	A	819	CLA	CHA-CBD-CGD-O2D
12	A	822	CLA	C1A-C2A-CAA-CBA
12	A	822	CLA	C3A-C2A-CAA-CBA
12	A	823	CLA	C2-C3-C5-C6
12	A	823	CLA	C4-C3-C5-C6
12	A	828	CLA	C1A-C2A-CAA-CBA
12	A	828	CLA	C3A-C2A-CAA-CBA
12	A	828	CLA	C2-C3-C5-C6
12	A	828	CLA	C4-C3-C5-C6
12	A	830	CLA	CHA-CBD-CGD-O1D
12	A	830	CLA	CHA-CBD-CGD-O2D
12	A	836	CLA	C2A-CAA-CBA-CGA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	836	CLA	CHA-CBD-CGD-O1D
12	A	836	CLA	CHA-CBD-CGD-O2D
12	A	837	CLA	CHA-CBD-CGD-O1D
12	A	837	CLA	CHA-CBD-CGD-O2D
12	A	839	CLA	CHA-CBD-CGD-O2D
12	A	840	CLA	CBD-CGD-O2D-CED
12	A	841	CLA	C2-C3-C5-C6
12	A	841	CLA	C4-C3-C5-C6
12	A	842	CLA	C1A-C2A-CAA-CBA
12	A	843	CLA	C1A-C2A-CAA-CBA
12	A	843	CLA	C3A-C2A-CAA-CBA
12	B	806	CLA	C1A-C2A-CAA-CBA
12	B	806	CLA	C3A-C2A-CAA-CBA
12	B	807	CLA	C4-C3-C5-C6
12	B	813	CLA	C1A-C2A-CAA-CBA
12	B	813	CLA	C3A-C2A-CAA-CBA
12	B	815	CLA	CHA-CBD-CGD-O1D
12	B	815	CLA	CHA-CBD-CGD-O2D
12	B	816	CLA	C1A-C2A-CAA-CBA
12	B	816	CLA	C3A-C2A-CAA-CBA
12	B	817	CLA	C2A-CAA-CBA-CGA
12	B	817	CLA	CHA-CBD-CGD-O1D
12	B	817	CLA	CHA-CBD-CGD-O2D
12	B	818	CLA	C1A-C2A-CAA-CBA
12	B	818	CLA	C3A-C2A-CAA-CBA
12	B	819	CLA	CHA-CBD-CGD-O1D
12	B	819	CLA	CHA-CBD-CGD-O2D
12	B	822	CLA	C1A-C2A-CAA-CBA
12	B	822	CLA	C3A-C2A-CAA-CBA
12	B	823	CLA	CHA-CBD-CGD-O1D
12	B	823	CLA	CHA-CBD-CGD-O2D
12	B	824	CLA	C1A-C2A-CAA-CBA
12	B	826	CLA	C3A-C2A-CAA-CBA
12	B	829	CLA	C1A-C2A-CAA-CBA
12	B	829	CLA	C3A-C2A-CAA-CBA
12	B	832	CLA	CHA-CBD-CGD-O1D
12	B	832	CLA	CHA-CBD-CGD-O2D
12	B	832	CLA	CAD-CBD-CGD-O1D
12	L	202	CLA	C1A-C2A-CAA-CBA
12	L	202	CLA	C3A-C2A-CAA-CBA
12	L	202	CLA	CHA-CBD-CGD-O1D
12	L	202	CLA	CHA-CBD-CGD-O2D

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
15	A	846	BCR	C1-C6-C7-C8
15	A	846	BCR	C7-C8-C9-C10
15	A	846	BCR	C7-C8-C9-C34
15	A	848	BCR	C1-C6-C7-C8
15	A	848	BCR	C7-C8-C9-C10
15	A	848	BCR	C11-C12-C13-C35
15	A	848	BCR	C37-C22-C23-C24
15	A	849	BCR	C1-C6-C7-C8
15	A	849	BCR	C37-C22-C23-C24
15	A	849	BCR	C23-C24-C25-C30
15	A	850	BCR	C1-C6-C7-C8
15	A	850	BCR	C7-C8-C9-C34
15	A	850	BCR	C11-C12-C13-C35
15	A	850	BCR	C37-C22-C23-C24
15	A	850	BCR	C23-C24-C25-C30
15	A	851	BCR	C6-C7-C8-C9
15	A	851	BCR	C18-C19-C20-C21
15	A	851	BCR	C20-C21-C22-C23
15	A	851	BCR	C20-C21-C22-C37
15	A	851	BCR	C23-C24-C25-C30
15	B	834	BCR	C1-C6-C7-C8
15	B	834	BCR	C37-C22-C23-C24
15	B	834	BCR	C23-C24-C25-C30
15	B	835	BCR	C1-C6-C7-C8
15	B	835	BCR	C7-C8-C9-C10
15	B	835	BCR	C7-C8-C9-C34
15	B	835	BCR	C18-C19-C20-C21
15	B	835	BCR	C20-C21-C22-C37
15	B	836	BCR	C1-C6-C7-C8
15	B	836	BCR	C11-C10-C9-C34
15	B	836	BCR	C22-C23-C24-C25
15	B	836	BCR	C23-C24-C25-C30
15	F	201	BCR	C1-C6-C7-C8
15	F	201	BCR	C37-C22-C23-C24
15	F	202	BCR	C1-C6-C7-C8
15	F	202	BCR	C7-C8-C9-C34
15	F	202	BCR	C21-C22-C23-C24
15	F	202	BCR	C37-C22-C23-C24
15	I	101	BCR	C1-C6-C7-C8
15	J	102	BCR	C1-C6-C7-C8
15	J	102	BCR	C6-C7-C8-C9
15	J	102	BCR	C7-C8-C9-C10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
15	J	102	BCR	C11-C10-C9-C8
15	J	102	BCR	C11-C10-C9-C34
15	J	102	BCR	C21-C22-C23-C24
15	J	102	BCR	C37-C22-C23-C24
15	J	103	BCR	C1-C6-C7-C8
15	J	103	BCR	C21-C22-C23-C24
15	J	103	BCR	C22-C23-C24-C25
15	J	103	BCR	C23-C24-C25-C26
15	J	104	BCR	C7-C8-C9-C10
15	J	104	BCR	C16-C17-C18-C36
15	J	104	BCR	C18-C19-C20-C21
15	J	104	BCR	C20-C21-C22-C37
15	J	104	BCR	C37-C22-C23-C24
15	J	104	BCR	C23-C24-C25-C30
15	L	201	BCR	C1-C6-C7-C8
15	L	201	BCR	C7-C8-C9-C34
15	L	201	BCR	C22-C23-C24-C25
15	L	206	BCR	C1-C6-C7-C8
15	L	206	BCR	C7-C8-C9-C10
15	L	206	BCR	C7-C8-C9-C34
15	L	206	BCR	C20-C21-C22-C37
15	L	206	BCR	C21-C22-C23-C24
15	L	206	BCR	C22-C23-C24-C25
15	L	206	BCR	C23-C24-C25-C30
15	M	101	BCR	C1-C6-C7-C8
15	M	101	BCR	C7-C8-C9-C34
15	M	101	BCR	C18-C19-C20-C21
15	M	101	BCR	C20-C21-C22-C23
15	M	101	BCR	C20-C21-C22-C37
15	M	101	BCR	C37-C22-C23-C24
15	M	101	BCR	C22-C23-C24-C25
17	B	837	LMG	C2-C1-O1-C7
17	B	837	LMG	O6-C1-O1-C7
12	A	810	CLA	CBD-CGD-O2D-CED
12	A	828	CLA	CBD-CGD-O2D-CED
12	A	834	CLA	CBD-CGD-O2D-CED
12	B	803	CLA	CBD-CGD-O2D-CED
12	B	805	CLA	CBD-CGD-O2D-CED
12	B	814	CLA	CBD-CGD-O2D-CED
12	B	821	CLA	CBD-CGD-O2D-CED
12	A	840	CLA	O1D-CGD-O2D-CED
12	A	823	CLA	CBA-CGA-O2A-C1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	815	CLA	CBD-CGD-O2D-CED
12	B	825	CLA	CBD-CGD-O2D-CED
12	A	823	CLA	O1A-CGA-O2A-C1
12	A	826	CLA	O1A-CGA-O2A-C1
12	A	843	CLA	O1A-CGA-O2A-C1
12	A	818	CLA	CBD-CGD-O2D-CED
12	A	806	CLA	C3-C5-C6-C7
12	A	812	CLA	C3-C5-C6-C7
12	A	842	CLA	C3-C5-C6-C7
12	B	810	CLA	C3-C5-C6-C7
12	B	813	CLA	C3-C5-C6-C7
12	B	825	CLA	C3-C5-C6-C7
13	A	844	PQN	C13-C15-C16-C17
12	A	806	CLA	CBA-CGA-O2A-C1
12	A	811	CLA	CBA-CGA-O2A-C1
12	A	826	CLA	CBA-CGA-O2A-C1
12	B	818	CLA	CBA-CGA-O2A-C1
12	B	803	CLA	O1D-CGD-O2D-CED
12	B	821	CLA	O1D-CGD-O2D-CED
12	A	839	CLA	CBD-CGD-O2D-CED
12	B	809	CLA	CBD-CGD-O2D-CED
12	B	819	CLA	CBD-CGD-O2D-CED
12	L	204	CLA	C3-C5-C6-C7
12	B	807	CLA	C2-C3-C5-C6
12	A	807	CLA	C2A-CAA-CBA-CGA
12	A	824	CLA	C2A-CAA-CBA-CGA
12	A	825	CLA	C2A-CAA-CBA-CGA
12	A	829	CLA	C2A-CAA-CBA-CGA
12	B	801	CLA	C2A-CAA-CBA-CGA
12	B	821	CLA	C2A-CAA-CBA-CGA
12	B	816	CLA	O1A-CGA-O2A-C1
12	A	818	CLA	C3-C5-C6-C7
12	A	821	CLA	C3-C5-C6-C7
12	A	832	CLA	C3-C5-C6-C7
12	A	819	CLA	CBA-CGA-O2A-C1
12	A	843	CLA	CBA-CGA-O2A-C1
12	B	816	CLA	CBA-CGA-O2A-C1
12	A	828	CLA	O1D-CGD-O2D-CED
12	B	805	CLA	O1D-CGD-O2D-CED
12	B	831	CLA	CBD-CGD-O2D-CED
12	A	834	CLA	O1D-CGD-O2D-CED
12	A	811	CLA	O1A-CGA-O2A-C1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
15	A	851	BCR	C13-C14-C15-C16
12	A	802	CLA	CBD-CGD-O2D-CED
12	A	808	CLA	CBD-CGD-O2D-CED
12	B	806	CLA	CBD-CGD-O2D-CED
12	B	811	CLA	CBD-CGD-O2D-CED
12	A	805	CLA	C3-C5-C6-C7
12	A	808	CLA	C3-C5-C6-C7
12	A	820	CLA	C3-C5-C6-C7
12	B	823	CLA	C3-C5-C6-C7
12	A	820	CLA	CBA-CGA-O2A-C1
12	B	832	CLA	CBA-CGA-O2A-C1
12	A	806	CLA	O1A-CGA-O2A-C1
12	B	818	CLA	O1A-CGA-O2A-C1
17	B	837	LMG	O6-C5-C6-O5
12	B	832	CLA	CBD-CGD-O2D-CED
12	B	814	CLA	O1D-CGD-O2D-CED
12	B	807	CLA	C3-C5-C6-C7
12	B	809	CLA	C3-C5-C6-C7
12	A	819	CLA	O1A-CGA-O2A-C1
12	A	820	CLA	O1A-CGA-O2A-C1
12	A	812	CLA	C4-C3-C5-C6
12	A	832	CLA	C4-C3-C5-C6
12	A	854	CLA	C4-C3-C5-C6
12	B	802	CLA	C4-C3-C5-C6
12	B	803	CLA	C4-C3-C5-C6
12	B	823	CLA	C4-C3-C5-C6
12	A	812	CLA	C2-C3-C5-C6
12	A	832	CLA	C2-C3-C5-C6
12	A	854	CLA	C2-C3-C5-C6
12	B	802	CLA	C2-C3-C5-C6
12	B	803	CLA	C2-C3-C5-C6
12	B	823	CLA	C2-C3-C5-C6
12	B	832	CLA	C2A-CAA-CBA-CGA
12	A	810	CLA	O1D-CGD-O2D-CED
12	B	832	CLA	O1A-CGA-O2A-C1
17	B	837	LMG	C4-C5-C6-O5
12	B	825	CLA	O1D-CGD-O2D-CED
12	A	821	CLA	CBD-CGD-O2D-CED
12	A	832	CLA	CBA-CGA-O2A-C1
12	B	802	CLA	CBA-CGA-O2A-C1
12	B	826	CLA	CBA-CGA-O2A-C1
12	A	805	CLA	C10-C11-C12-C13

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
16	A	852	LHG	O7-C5-C6-O8
12	B	802	CLA	O1A-CGA-O2A-C1
12	A	821	CLA	C11-C10-C8-C9
12	A	827	CLA	C6-C7-C8-C9
12	B	810	CLA	C14-C13-C15-C16
12	B	823	CLA	C11-C12-C13-C14
12	B	832	CLA	C11-C12-C13-C14
12	B	815	CLA	O1D-CGD-O2D-CED
15	A	846	BCR	C37-C22-C23-C24
15	J	103	BCR	C7-C8-C9-C34
15	J	103	BCR	C11-C12-C13-C35
15	J	103	BCR	C37-C22-C23-C24
15	L	205	BCR	C37-C22-C23-C24
15	A	849	BCR	C21-C22-C23-C24
15	A	851	BCR	C21-C22-C23-C24
15	F	201	BCR	C7-C8-C9-C10
15	I	101	BCR	C7-C8-C9-C10
15	J	103	BCR	C7-C8-C9-C10
15	J	103	BCR	C11-C12-C13-C14
15	L	205	BCR	C7-C8-C9-C10
15	L	205	BCR	C21-C22-C23-C24
12	B	823	CLA	C10-C11-C12-C13
12	B	827	CLA	CBD-CGD-O2D-CED
12	A	827	CLA	C3-C5-C6-C7
12	A	819	CLA	C13-C15-C16-C17
12	A	827	CLA	C10-C11-C12-C13
12	A	828	CLA	C13-C15-C16-C17
12	B	825	CLA	C10-C11-C12-C13
12	A	832	CLA	O1A-CGA-O2A-C1
11	A	801	CL0	C13-C15-C16-C17
12	A	805	CLA	C15-C16-C17-C18
12	A	806	CLA	C5-C6-C7-C8
12	A	821	CLA	C8-C10-C11-C12
12	B	807	CLA	C13-C15-C16-C17
12	B	811	CLA	C15-C16-C17-C18
12	B	832	CLA	C8-C10-C11-C12
12	L	203	CLA	C8-C10-C11-C12
13	A	844	PQN	C15-C16-C17-C18
16	A	853	LHG	C7-C8-C9-C10
17	B	837	LMG	C28-C29-C30-C31
12	A	821	CLA	C5-C6-C7-C8
13	B	833	PQN	C15-C16-C17-C18

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	843	CLA	C3-C5-C6-C7
12	A	826	CLA	C5-C6-C7-C8
12	B	823	CLA	C11-C12-C13-C15
12	B	805	CLA	C2A-CAA-CBA-CGA
12	B	829	CLA	C10-C11-C12-C13
12	B	824	CLA	CBD-CGD-O2D-CED
12	A	818	CLA	O1D-CGD-O2D-CED
15	A	848	BCR	C10-C11-C12-C13
15	J	103	BCR	C10-C11-C12-C13
15	L	205	BCR	C18-C19-C20-C21
12	B	821	CLA	C5-C6-C7-C8
12	B	826	CLA	O1A-CGA-O2A-C1
12	A	808	CLA	C8-C10-C11-C12
12	A	834	CLA	C5-C6-C7-C8
12	B	804	CLA	C8-C10-C11-C12
12	B	823	CLA	C15-C16-C17-C18
12	B	826	CLA	C5-C6-C7-C8
12	B	829	CLA	C5-C6-C7-C8
12	J	101	CLA	CBD-CGD-O2D-CED
12	B	809	CLA	C13-C15-C16-C17
12	B	821	CLA	C10-C11-C12-C13
12	A	802	CLA	C2A-CAA-CBA-CGA
12	A	812	CLA	C2A-CAA-CBA-CGA
12	A	818	CLA	C2A-CAA-CBA-CGA
12	B	802	CLA	C2A-CAA-CBA-CGA
12	B	831	CLA	C2A-CAA-CBA-CGA
12	L	203	CLA	CBA-CGA-O2A-C1
12	B	807	CLA	C10-C11-C12-C13
15	A	847	BCR	C20-C21-C22-C37
15	A	849	BCR	C20-C21-C22-C37
15	A	851	BCR	C35-C13-C14-C15
15	B	834	BCR	C11-C10-C9-C34
15	F	201	BCR	C35-C13-C14-C15
15	F	201	BCR	C20-C21-C22-C37
15	F	202	BCR	C35-C13-C14-C15
15	J	103	BCR	C11-C10-C9-C34
15	L	205	BCR	C20-C21-C22-C37
15	L	206	BCR	C16-C17-C18-C36
12	A	839	CLA	O1D-CGD-O2D-CED
12	B	819	CLA	O1D-CGD-O2D-CED
12	L	204	CLA	CBA-CGA-O2A-C1
16	A	852	LHG	C27-C28-C29-C30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	807	CLA	O1D-CGD-O2D-CED
17	B	837	LMG	C29-C30-C31-C32
17	B	837	LMG	C37-C38-C39-C40
12	L	203	CLA	C15-C16-C17-C18
12	B	828	CLA	CBA-CGA-O2A-C1
16	A	853	LHG	O2-C2-C3-O3
12	B	802	CLA	C3-C5-C6-C7
15	A	847	BCR	C16-C17-C18-C19
15	A	848	BCR	C11-C10-C9-C8
15	A	848	BCR	C16-C17-C18-C19
15	A	851	BCR	C12-C13-C14-C15
15	B	834	BCR	C11-C10-C9-C8
15	B	835	BCR	C20-C21-C22-C23
15	F	202	BCR	C12-C13-C14-C15
15	I	101	BCR	C20-C21-C22-C23
15	J	103	BCR	C11-C10-C9-C8
15	J	103	BCR	C20-C21-C22-C23
15	J	104	BCR	C16-C17-C18-C19
15	J	104	BCR	C20-C21-C22-C23
12	A	816	CLA	CBA-CGA-O2A-C1
12	A	831	CLA	CBA-CGA-O2A-C1
12	B	813	CLA	CBA-CGA-O2A-C1
12	B	822	CLA	CBA-CGA-O2A-C1
16	A	853	LHG	C24-C23-O8-C6
17	B	837	LMG	C16-C17-C18-C19
12	B	831	CLA	O1D-CGD-O2D-CED
12	A	805	CLA	C4-C3-C5-C6
12	B	825	CLA	C4-C3-C5-C6
12	B	825	CLA	C2-C3-C5-C6
17	B	837	LMG	C17-C18-C19-C20
17	B	837	LMG	C36-C37-C38-C39
15	A	851	BCR	C37-C22-C23-C24
15	F	201	BCR	C7-C8-C9-C34
15	I	101	BCR	C7-C8-C9-C34
15	L	205	BCR	C7-C8-C9-C34
15	L	206	BCR	C11-C12-C13-C35
15	L	206	BCR	C37-C22-C23-C24
16	A	852	LHG	O1-C1-C2-C3
16	A	853	LHG	O1-C1-C2-C3
15	A	846	BCR	C21-C22-C23-C24
15	A	850	BCR	C21-C22-C23-C24
15	I	101	BCR	C17-C18-C19-C20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	803	CLA	C3-C5-C6-C7
17	B	837	LMG	C38-C39-C40-C41
12	A	828	CLA	C8-C10-C11-C12
12	B	809	CLA	O1D-CGD-O2D-CED
12	A	808	CLA	C5-C6-C7-C8
12	B	806	CLA	C13-C15-C16-C17
12	A	803	CLA	C3A-C2A-CAA-CBA
12	A	806	CLA	C3A-C2A-CAA-CBA
12	A	832	CLA	C3A-C2A-CAA-CBA
12	A	837	CLA	C3A-C2A-CAA-CBA
12	A	842	CLA	C3A-C2A-CAA-CBA
12	B	801	CLA	C3A-C2A-CAA-CBA
12	A	830	CLA	C13-C15-C16-C17
17	B	837	LMG	C21-C22-C23-C24
15	F	201	BCR	C14-C15-C16-C17
15	J	102	BCR	C14-C15-C16-C17
12	B	811	CLA	O1D-CGD-O2D-CED
12	A	854	CLA	C3-C5-C6-C7
12	B	813	CLA	C8-C10-C11-C12
12	A	805	CLA	CBA-CGA-O2A-C1
12	A	805	CLA	C2-C3-C5-C6
12	A	837	CLA	C2A-CAA-CBA-CGA
12	J	101	CLA	C2A-CAA-CBA-CGA
12	A	825	CLA	C10-C11-C12-C13
12	L	203	CLA	O1A-CGA-O2A-C1
12	B	832	CLA	C3-C5-C6-C7
17	B	837	LMG	C11-C12-C13-C14
12	A	831	CLA	O1A-CGA-O2A-C1
12	B	813	CLA	O1A-CGA-O2A-C1
12	A	843	CLA	C2-C1-O2A-CGA
12	B	806	CLA	C2-C1-O2A-CGA
12	A	829	CLA	C5-C6-C7-C8
12	B	802	CLA	C13-C15-C16-C17
12	A	816	CLA	O1A-CGA-O2A-C1
12	B	822	CLA	O1A-CGA-O2A-C1
12	L	204	CLA	O1A-CGA-O2A-C1
12	B	821	CLA	C3-C5-C6-C7
15	A	846	BCR	C5-C6-C7-C8
15	A	847	BCR	C1-C6-C7-C8
15	A	847	BCR	C5-C6-C7-C8
15	A	847	BCR	C23-C24-C25-C26
15	A	848	BCR	C5-C6-C7-C8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
15	A	849	BCR	C5-C6-C7-C8
15	A	849	BCR	C23-C24-C25-C26
15	A	850	BCR	C5-C6-C7-C8
15	A	850	BCR	C23-C24-C25-C26
15	A	851	BCR	C23-C24-C25-C26
15	B	834	BCR	C5-C6-C7-C8
15	B	834	BCR	C23-C24-C25-C26
15	B	835	BCR	C5-C6-C7-C8
15	B	835	BCR	C23-C24-C25-C26
15	B	835	BCR	C23-C24-C25-C30
15	B	836	BCR	C5-C6-C7-C8
15	B	836	BCR	C23-C24-C25-C26
15	F	201	BCR	C5-C6-C7-C8
15	F	202	BCR	C5-C6-C7-C8
15	I	101	BCR	C5-C6-C7-C8
15	J	102	BCR	C5-C6-C7-C8
15	J	103	BCR	C5-C6-C7-C8
15	J	103	BCR	C23-C24-C25-C30
15	J	104	BCR	C23-C24-C25-C26
15	L	201	BCR	C5-C6-C7-C8
15	L	205	BCR	C1-C6-C7-C8
15	L	205	BCR	C5-C6-C7-C8
15	L	205	BCR	C23-C24-C25-C26
15	L	205	BCR	C23-C24-C25-C30
15	L	206	BCR	C5-C6-C7-C8
15	L	206	BCR	C23-C24-C25-C26
15	M	101	BCR	C5-C6-C7-C8
15	M	101	BCR	C23-C24-C25-C26
15	M	101	BCR	C23-C24-C25-C30
12	A	807	CLA	CBA-CGA-O2A-C1
12	A	808	CLA	CBA-CGA-O2A-C1
12	A	811	CLA	C10-C11-C12-C13
12	A	833	CLA	C15-C16-C17-C18
12	B	803	CLA	C8-C10-C11-C12
12	B	811	CLA	C13-C15-C16-C17
12	B	813	CLA	C10-C11-C12-C13
12	A	805	CLA	C11-C10-C8-C7
12	B	820	CLA	C12-C13-C15-C16
12	A	819	CLA	C3-C5-C6-C7
12	A	805	CLA	O1A-CGA-O2A-C1
12	A	807	CLA	O1A-CGA-O2A-C1
12	A	840	CLA	C8-C10-C11-C12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	803	CLA	C13-C15-C16-C17
12	B	810	CLA	C13-C15-C16-C17
15	L	206	BCR	C19-C20-C21-C22
12	B	817	CLA	CBD-CGD-O2D-CED
12	A	818	CLA	CBA-CGA-O2A-C1
12	A	833	CLA	CBA-CGA-O2A-C1
12	B	821	CLA	CBA-CGA-O2A-C1
12	A	813	CLA	C2A-CAA-CBA-CGA
12	B	820	CLA	C10-C11-C12-C13
12	A	829	CLA	CBD-CGD-O2D-CED
12	B	817	CLA	C8-C10-C11-C12
12	A	825	CLA	C3-C5-C6-C7
12	B	831	CLA	C3-C5-C6-C7
12	B	806	CLA	O1D-CGD-O2D-CED
16	A	852	LHG	C24-C25-C26-C27
16	A	852	LHG	C8-C7-O7-C5
12	A	812	CLA	CBA-CGA-O2A-C1
12	A	833	CLA	C10-C11-C12-C13
12	L	204	CLA	C4-C3-C5-C6
12	A	805	CLA	C11-C10-C8-C9
12	A	830	CLA	C14-C13-C15-C16
12	B	813	CLA	C11-C10-C8-C9
12	B	822	CLA	C14-C13-C15-C16
17	B	837	LMG	C15-C16-C17-C18
11	A	801	CL0	C3-C5-C6-C7
15	J	102	BCR	C11-C12-C13-C35
12	A	808	CLA	O1A-CGA-O2A-C1
12	A	833	CLA	O1A-CGA-O2A-C1
12	A	803	CLA	C1A-C2A-CAA-CBA
12	A	811	CLA	C1A-C2A-CAA-CBA
12	A	818	CLA	C1A-C2A-CAA-CBA
12	A	821	CLA	C1A-C2A-CAA-CBA
12	A	824	CLA	C1A-C2A-CAA-CBA
12	A	831	CLA	C1A-C2A-CAA-CBA
12	A	832	CLA	C1A-C2A-CAA-CBA
12	A	834	CLA	C1A-C2A-CAA-CBA
12	A	835	CLA	C1A-C2A-CAA-CBA
12	A	837	CLA	C1A-C2A-CAA-CBA
12	B	812	CLA	C1A-C2A-CAA-CBA
12	B	814	CLA	C1A-C2A-CAA-CBA
12	B	823	CLA	C1A-C2A-CAA-CBA
12	B	825	CLA	C1A-C2A-CAA-CBA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	826	CLA	C1A-C2A-CAA-CBA
12	B	827	CLA	C1A-C2A-CAA-CBA
12	B	830	CLA	C1A-C2A-CAA-CBA
15	J	103	BCR	C9-C10-C11-C12
12	B	831	CLA	C5-C6-C7-C8
16	A	853	LHG	C3-O3-P-O6
12	A	818	CLA	O1A-CGA-O2A-C1
12	A	827	CLA	CBA-CGA-O2A-C1
12	A	834	CLA	CBA-CGA-O2A-C1
12	A	841	CLA	CBA-CGA-O2A-C1
12	B	814	CLA	C4-C3-C5-C6
12	B	808	CLA	C15-C16-C17-C18
17	B	837	LMG	C30-C31-C32-C33
12	B	821	CLA	O1A-CGA-O2A-C1
12	B	822	CLA	C3-C5-C6-C7
12	A	827	CLA	O1A-CGA-O2A-C1
17	B	837	LMG	C32-C33-C34-C35
17	B	837	LMG	C18-C19-C20-C21
16	A	852	LHG	C11-C12-C13-C14
12	L	203	CLA	C13-C15-C16-C17
15	L	201	BCR	C16-C17-C18-C36
12	A	834	CLA	C4-C3-C5-C6
12	A	843	CLA	C4-C3-C5-C6
12	B	820	CLA	C15-C16-C17-C18
12	B	817	CLA	C2-C1-O2A-CGA
12	A	802	CLA	O1D-CGD-O2D-CED
12	A	828	CLA	CBA-CGA-O2A-C1
12	A	812	CLA	O1A-CGA-O2A-C1
12	A	808	CLA	C10-C11-C12-C13
12	A	834	CLA	O1A-CGA-O2A-C1
15	A	847	BCR	C11-C10-C9-C8
15	A	847	BCR	C20-C21-C22-C23
15	B	836	BCR	C11-C10-C9-C8
15	I	101	BCR	C11-C10-C9-C8
15	M	101	BCR	C11-C10-C9-C8
17	B	837	LMG	O1-C7-C8-O7
16	A	852	LHG	O9-C7-O7-C5
12	A	841	CLA	O1A-CGA-O2A-C1
12	A	806	CLA	C4-C3-C5-C6
12	A	825	CLA	C12-C13-C15-C16
12	A	830	CLA	C12-C13-C15-C16
12	A	834	CLA	C2-C3-C5-C6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	834	CLA	C12-C13-C15-C16
12	A	843	CLA	C2-C3-C5-C6
12	B	802	CLA	C12-C13-C15-C16
12	B	806	CLA	C12-C13-C15-C16
12	B	810	CLA	C12-C13-C15-C16
12	B	813	CLA	C11-C10-C8-C7
12	B	814	CLA	C2-C3-C5-C6
12	B	822	CLA	C12-C13-C15-C16
12	L	203	CLA	C12-C13-C15-C16
13	B	833	PQN	C16-C17-C18-C20
12	B	821	CLA	CAA-CBA-CGA-O2A
12	A	808	CLA	C11-C12-C13-C14
12	A	811	CLA	C11-C12-C13-C14
12	A	834	CLA	C14-C13-C15-C16
12	A	854	CLA	C14-C13-C15-C16
12	B	802	CLA	C14-C13-C15-C16
12	B	807	CLA	C14-C13-C15-C16
12	B	820	CLA	C14-C13-C15-C16
16	A	852	LHG	C29-C30-C31-C32
12	B	828	CLA	O1A-CGA-O2A-C1
12	A	808	CLA	O1D-CGD-O2D-CED
15	B	834	BCR	C21-C22-C23-C24
12	B	807	CLA	C15-C16-C17-C18
12	B	814	CLA	CBA-CGA-O2A-C1
12	A	825	CLA	C13-C15-C16-C17
12	B	817	CLA	C3-C5-C6-C7
12	A	826	CLA	C4-C3-C5-C6
12	B	822	CLA	C4-C3-C5-C6
12	A	806	CLA	C2-C3-C5-C6
12	B	811	CLA	C2-C3-C5-C6
12	B	822	CLA	C2-C3-C5-C6
12	B	811	CLA	C10-C11-C12-C13
12	A	811	CLA	C2A-CAA-CBA-CGA
12	A	838	CLA	CBA-CGA-O2A-C1
12	A	813	CLA	C3A-C2A-CAA-CBA
17	B	837	LMG	C33-C34-C35-C36
12	B	813	CLA	C5-C6-C7-C8
12	B	823	CLA	C5-C6-C7-C8
16	A	852	LHG	C4-C5-C6-O8
17	B	837	LMG	O1-C7-C8-C9
12	A	812	CLA	C6-C7-C8-C9
17	B	837	LMG	C31-C32-C33-C34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	824	CLA	O1D-CGD-O2D-CED
12	A	829	CLA	C4-C3-C5-C6
12	B	811	CLA	C4-C3-C5-C6
13	B	833	PQN	C14-C13-C15-C16
12	A	821	CLA	O1D-CGD-O2D-CED
12	B	832	CLA	O1D-CGD-O2D-CED
12	B	803	CLA	C5-C6-C7-C8
12	A	820	CLA	C10-C11-C12-C13
12	A	825	CLA	C8-C10-C11-C12
16	A	852	LHG	C19-C20-C21-C22
12	B	819	CLA	CBA-CGA-O2A-C1
12	B	824	CLA	CAA-CBA-CGA-O2A
12	B	827	CLA	O1D-CGD-O2D-CED
12	A	828	CLA	O1A-CGA-O2A-C1
12	B	821	CLA	C4-C3-C5-C6
12	A	817	CLA	C2-C1-O2A-CGA
12	A	826	CLA	C2-C3-C5-C6
13	B	833	PQN	C12-C13-C15-C16
12	B	825	CLA	C15-C16-C17-C18
12	A	821	CLA	C14-C13-C15-C16
12	A	829	CLA	C14-C13-C15-C16
12	A	832	CLA	C11-C10-C8-C9
12	B	809	CLA	C14-C13-C15-C16
12	B	814	CLA	O1A-CGA-O2A-C1
16	A	852	LHG	C26-C27-C28-C29
12	B	824	CLA	C2A-CAA-CBA-CGA
15	A	847	BCR	C23-C24-C25-C30
15	A	851	BCR	C5-C6-C7-C8
15	F	201	BCR	C23-C24-C25-C26
15	F	202	BCR	C23-C24-C25-C26
15	F	202	BCR	C23-C24-C25-C30
15	J	102	BCR	C23-C24-C25-C26
15	J	104	BCR	C5-C6-C7-C8
15	L	201	BCR	C23-C24-C25-C26
15	L	201	BCR	C23-C24-C25-C30
12	A	830	CLA	CBA-CGA-O2A-C1
15	L	201	BCR	C7-C8-C9-C10
15	M	101	BCR	C7-C8-C9-C10
12	A	829	CLA	O1D-CGD-O2D-CED
16	A	852	LHG	C28-C29-C30-C31
16	A	852	LHG	C13-C14-C15-C16
12	A	819	CLA	C11-C12-C13-C15

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	821	CLA	C12-C13-C15-C16
12	A	829	CLA	C12-C13-C15-C16
12	A	832	CLA	C11-C10-C8-C7
12	A	854	CLA	C12-C13-C15-C16
12	B	811	CLA	C11-C12-C13-C15
12	B	826	CLA	C6-C7-C8-C10
12	B	829	CLA	C12-C13-C15-C16
15	A	848	BCR	C9-C10-C11-C12
15	A	851	BCR	C19-C20-C21-C22
15	A	846	BCR	C20-C21-C22-C37
15	J	104	BCR	C11-C10-C9-C34
15	L	201	BCR	C35-C13-C14-C15
12	A	817	CLA	C3-C5-C6-C7
12	A	811	CLA	CAD-CBD-CGD-O2D
12	A	820	CLA	CAD-CBD-CGD-O2D
12	A	827	CLA	CAD-CBD-CGD-O2D
12	A	854	CLA	CAD-CBD-CGD-O2D
12	B	826	CLA	CAD-CBD-CGD-O2D
12	B	832	CLA	CAD-CBD-CGD-O2D
12	F	203	CLA	CAD-CBD-CGD-O2D
12	A	805	CLA	C13-C15-C16-C17
15	F	201	BCR	C22-C23-C24-C25
12	A	817	CLA	CBA-CGA-O2A-C1
12	A	825	CLA	C4-C3-C5-C6
12	B	813	CLA	C4-C3-C5-C6
12	A	829	CLA	C2-C3-C5-C6
12	B	821	CLA	C2-C3-C5-C6
12	A	835	CLA	C6-C7-C8-C9
12	A	805	CLA	CHA-CBD-CGD-O1D
12	A	813	CLA	CHA-CBD-CGD-O1D
12	A	813	CLA	CHA-CBD-CGD-O2D
12	A	825	CLA	CHA-CBD-CGD-O1D
12	A	825	CLA	CHA-CBD-CGD-O2D
12	A	829	CLA	CHA-CBD-CGD-O1D
12	A	834	CLA	CHA-CBD-CGD-O1D
12	A	834	CLA	CHA-CBD-CGD-O2D
12	A	838	CLA	CHA-CBD-CGD-O1D
12	A	838	CLA	CHA-CBD-CGD-O2D
12	A	839	CLA	CHA-CBD-CGD-O1D
12	A	843	CLA	CHA-CBD-CGD-O1D
12	A	843	CLA	CHA-CBD-CGD-O2D
12	B	806	CLA	CHA-CBD-CGD-O1D

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	806	CLA	CHA-CBD-CGD-O2D
12	B	809	CLA	CHA-CBD-CGD-O1D
12	B	809	CLA	CHA-CBD-CGD-O2D
12	B	813	CLA	CHA-CBD-CGD-O1D
12	B	813	CLA	CHA-CBD-CGD-O2D
12	B	828	CLA	CHA-CBD-CGD-O1D
12	B	828	CLA	CHA-CBD-CGD-O2D
12	J	101	CLA	CHA-CBD-CGD-O1D
12	J	101	CLA	CHA-CBD-CGD-O2D
12	B	829	CLA	C3-C5-C6-C7
12	A	838	CLA	O1A-CGA-O2A-C1
15	I	101	BCR	C16-C17-C18-C19
12	A	818	CLA	CAA-CBA-CGA-O2A
12	A	830	CLA	O1A-CGA-O2A-C1
12	B	803	CLA	C11-C10-C8-C9
12	B	806	CLA	CBA-CGA-O2A-C1
15	J	102	BCR	C7-C8-C9-C34
15	M	101	BCR	C21-C22-C23-C24
12	B	821	CLA	C1A-C2A-CAA-CBA
12	L	203	CLA	C1A-C2A-CAA-CBA
12	B	804	CLA	C16-C17-C18-C20
12	B	806	CLA	C16-C17-C18-C20
12	A	838	CLA	C4-C3-C5-C6
12	L	204	CLA	C2-C3-C5-C6
12	B	806	CLA	O1A-CGA-O2A-C1
16	A	853	LHG	C3-O3-P-O4
12	B	829	CLA	C2A-CAA-CBA-CGA
12	A	817	CLA	O1A-CGA-O2A-C1
12	A	805	CLA	CAD-CBD-CGD-O1D
12	A	813	CLA	CAD-CBD-CGD-O1D
12	A	825	CLA	CAD-CBD-CGD-O1D
12	A	838	CLA	CAD-CBD-CGD-O1D
12	A	843	CLA	CAD-CBD-CGD-O1D
12	B	806	CLA	CAD-CBD-CGD-O1D
12	B	813	CLA	CAD-CBD-CGD-O1D
12	J	101	CLA	CAD-CBD-CGD-O1D
12	B	817	CLA	O1D-CGD-O2D-CED
12	B	829	CLA	C4-C3-C5-C6
12	A	806	CLA	C12-C13-C15-C16
12	A	808	CLA	C6-C7-C8-C10
12	A	808	CLA	C12-C13-C15-C16
12	A	821	CLA	C11-C10-C8-C7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	827	CLA	C11-C10-C8-C7
12	A	840	CLA	C11-C10-C8-C7
12	B	807	CLA	C5-C6-C7-C8
16	A	852	LHG	C32-C33-C34-C35
12	J	101	CLA	O1D-CGD-O2D-CED
12	A	808	CLA	C6-C7-C8-C9
12	A	819	CLA	C11-C12-C13-C14
12	A	825	CLA	C14-C13-C15-C16
12	B	806	CLA	C14-C13-C15-C16
12	B	811	CLA	C11-C12-C13-C14
12	B	820	CLA	C11-C10-C8-C9
12	B	823	CLA	C6-C7-C8-C9
12	B	826	CLA	C6-C7-C8-C9
12	B	829	CLA	C14-C13-C15-C16
12	L	203	CLA	C14-C13-C15-C16
13	B	833	PQN	C16-C17-C18-C19
15	A	846	BCR	C22-C23-C24-C25
15	B	835	BCR	C22-C23-C24-C25
16	A	853	LHG	O10-C23-O8-C6
15	F	201	BCR	C21-C22-C23-C24
16	A	852	LHG	C17-C18-C19-C20
12	B	824	CLA	C1-C2-C3-C4
12	B	823	CLA	O1A-CGA-O2A-C1
12	B	806	CLA	C15-C16-C17-C18
12	B	822	CLA	C2A-CAA-CBA-CGA
12	A	834	CLA	C2-C1-O2A-CGA
12	B	810	CLA	C2-C1-O2A-CGA
12	B	813	CLA	C2-C1-O2A-CGA
12	B	825	CLA	C2-C1-O2A-CGA
12	B	801	CLA	C4-C3-C5-C6
15	J	102	BCR	C23-C24-C25-C30
15	J	104	BCR	C1-C6-C7-C8
12	A	825	CLA	C2-C3-C5-C6
12	A	838	CLA	C2-C3-C5-C6
12	B	813	CLA	C2-C3-C5-C6
12	B	823	CLA	CBA-CGA-O2A-C1
12	A	811	CLA	C13-C15-C16-C17
15	B	834	BCR	C20-C21-C22-C23
12	A	835	CLA	O1A-CGA-O2A-C1
16	A	852	LHG	C3-O3-P-O6
16	A	852	LHG	C25-C26-C27-C28
12	B	832	CLA	C10-C11-C12-C13

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	808	CLA	C11-C12-C13-C15
12	B	820	CLA	C11-C10-C8-C7
12	B	823	CLA	C6-C7-C8-C10
12	B	831	CLA	C11-C10-C8-C7
12	A	827	CLA	C11-C10-C8-C9
12	A	854	CLA	C13-C15-C16-C17
15	J	102	BCR	C9-C10-C11-C12
16	A	852	LHG	C18-C19-C20-C21
12	A	835	CLA	CBA-CGA-O2A-C1
12	B	804	CLA	C10-C11-C12-C13
16	A	853	LHG	C1-C2-C3-O3
16	A	852	LHG	O1-C1-C2-O2
12	A	805	CLA	CAA-CBA-CGA-O2A
12	B	829	CLA	C2-C3-C5-C6
12	A	837	CLA	CBA-CGA-O2A-C1
12	B	807	CLA	CBD-CGD-O2D-CED
17	B	837	LMG	C13-C14-C15-C16
12	A	843	CLA	C2A-CAA-CBA-CGA
15	B	836	BCR	C18-C19-C20-C21
15	L	206	BCR	C10-C11-C12-C13
12	A	828	CLA	C3-C5-C6-C7
12	A	837	CLA	O1A-CGA-O2A-C1
12	B	825	CLA	CAA-CBA-CGA-O2A
12	B	802	CLA	C8-C10-C11-C12
12	A	808	CLA	C2A-CAA-CBA-CGA
12	A	823	CLA	C2A-CAA-CBA-CGA
17	B	837	LMG	O7-C8-C9-O8
12	B	826	CLA	CAA-CBA-CGA-O2A
12	A	807	CLA	C3A-C2A-CAA-CBA
12	A	840	CLA	C3A-C2A-CAA-CBA
12	B	821	CLA	C3A-C2A-CAA-CBA
12	B	824	CLA	C3A-C2A-CAA-CBA
12	A	834	CLA	C10-C11-C12-C13
12	A	842	CLA	CAA-CBA-CGA-O2A
12	B	819	CLA	O1A-CGA-O2A-C1
12	A	820	CLA	C4-C3-C5-C6
12	A	806	CLA	C14-C13-C15-C16
12	A	811	CLA	C14-C13-C15-C16
12	A	821	CLA	C6-C7-C8-C9
12	B	810	CLA	C6-C7-C8-C9
12	A	826	CLA	C6-C7-C8-C10
12	A	830	CLA	C15-C16-C17-C18

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	831	CLA	C10-C11-C12-C13
15	A	851	BCR	C11-C10-C9-C34
15	A	851	BCR	C16-C17-C18-C36
15	B	834	BCR	C20-C21-C22-C37
15	L	201	BCR	C20-C21-C22-C37
12	A	817	CLA	C2A-CAA-CBA-CGA
12	B	804	CLA	C13-C15-C16-C17
15	A	850	BCR	C7-C8-C9-C10
12	A	813	CLA	C1A-C2A-CAA-CBA
12	A	815	CLA	C1A-C2A-CAA-CBA
12	B	821	CLA	C11-C12-C13-C15
12	A	829	CLA	C13-C15-C16-C17
12	L	203	CLA	C10-C11-C12-C13
12	B	817	CLA	CAA-CBA-CGA-O2A
16	A	852	LHG	C30-C31-C32-C33
12	A	812	CLA	C5-C6-C7-C8
12	A	833	CLA	C4-C3-C5-C6
15	A	851	BCR	C16-C17-C18-C19
15	L	206	BCR	C16-C17-C18-C19
15	B	836	BCR	C6-C7-C8-C9
12	A	821	CLA	C4-C3-C5-C6
12	A	835	CLA	C4-C3-C5-C6
12	B	826	CLA	C4-C3-C5-C6
12	B	824	CLA	C2-C1-O2A-CGA
12	B	829	CLA	C2-C1-O2A-CGA
12	A	820	CLA	C2-C3-C5-C6
15	A	846	BCR	C18-C19-C20-C21
12	A	809	CLA	CAA-CBA-CGA-O2A
12	A	808	CLA	C14-C13-C15-C16
12	A	813	CLA	CAA-CBA-CGA-O2A
12	A	837	CLA	C4-C3-C5-C6
12	B	825	CLA	O1A-CGA-O2A-C1
15	A	848	BCR	C23-C24-C25-C26
15	A	848	BCR	C23-C24-C25-C30
15	A	851	BCR	C1-C6-C7-C8
15	F	201	BCR	C23-C24-C25-C30
12	A	829	CLA	CAA-CBA-CGA-O2A
12	A	803	CLA	CAA-CBA-CGA-O2A
15	B	835	BCR	C9-C10-C11-C12
15	J	104	BCR	C15-C16-C17-C18
12	B	809	CLA	C4-C3-C5-C6
12	A	826	CLA	C6-C7-C8-C9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	B	801	CLA	C2-C3-C5-C6
12	A	836	CLA	CAA-CBA-CGA-O2A
12	F	203	CLA	CAA-CBA-CGA-O2A
12	A	809	CLA	CAA-CBA-CGA-O1A
11	A	801	CL0	CAA-CBA-CGA-O2A
12	A	813	CLA	CAA-CBA-CGA-O1A
12	B	808	CLA	C16-C17-C18-C20
12	A	811	CLA	C11-C12-C13-C15
12	A	819	CLA	C11-C10-C8-C7
12	B	807	CLA	C12-C13-C15-C16
12	B	821	CLA	CAA-CBA-CGA-O1A
12	B	829	CLA	CAA-CBA-CGA-O2A
12	B	824	CLA	CAA-CBA-CGA-O1A
12	B	825	CLA	CBA-CGA-O2A-C1
15	F	202	BCR	C20-C21-C22-C37
12	A	817	CLA	C4-C3-C5-C6
12	A	827	CLA	C4-C3-C5-C6
12	B	810	CLA	C4-C3-C5-C6
12	A	821	CLA	C2-C3-C5-C6
12	A	840	CLA	C11-C10-C8-C9
12	B	821	CLA	C11-C12-C13-C14
12	B	802	CLA	C3A-C2A-CAA-CBA
12	A	840	CLA	O1A-CGA-O2A-C1
12	A	838	CLA	CAA-CBA-CGA-O2A
12	A	840	CLA	CAA-CBA-CGA-O2A
12	A	807	CLA	CAD-CBD-CGD-O2D
12	A	823	CLA	CAD-CBD-CGD-O2D
12	A	826	CLA	CAD-CBD-CGD-O2D
12	A	831	CLA	CAD-CBD-CGD-O2D
12	A	833	CLA	CAD-CBD-CGD-O2D
12	A	842	CLA	CAD-CBD-CGD-O2D
12	B	805	CLA	CAD-CBD-CGD-O2D
12	B	818	CLA	CAD-CBD-CGD-O2D
12	B	830	CLA	CAD-CBD-CGD-O2D
12	B	827	CLA	CAA-CBA-CGA-O2A
12	A	840	CLA	C4-C3-C5-C6
12	A	803	CLA	CAA-CBA-CGA-O1A
12	A	827	CLA	C2-C3-C5-C6
12	A	833	CLA	C2-C3-C5-C6
12	B	810	CLA	C2-C3-C5-C6
12	B	826	CLA	C2-C3-C5-C6
15	B	836	BCR	C21-C22-C23-C24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
15	I	101	BCR	C11-C12-C13-C14
12	A	836	CLA	CAA-CBA-CGA-O1A
12	F	203	CLA	CAA-CBA-CGA-O1A
16	A	852	LHG	O6-C4-C5-O7
12	A	817	CLA	CAA-CBA-CGA-O2A
12	B	807	CLA	CAA-CBA-CGA-O2A
16	A	852	LHG	C11-C10-C9-C8
12	A	822	CLA	C2A-CAA-CBA-CGA
12	A	805	CLA	CHA-CBD-CGD-O2D
12	A	806	CLA	CHA-CBD-CGD-O1D
12	A	806	CLA	CHA-CBD-CGD-O2D
12	A	829	CLA	CHA-CBD-CGD-O2D
12	A	831	CLA	CHA-CBD-CGD-O2D
12	B	803	CLA	CHA-CBD-CGD-O1D
12	B	803	CLA	CHA-CBD-CGD-O2D
12	B	810	CLA	CHA-CBD-CGD-O1D
12	B	810	CLA	CHA-CBD-CGD-O2D
12	B	821	CLA	CHA-CBD-CGD-O1D
12	B	821	CLA	CHA-CBD-CGD-O2D
12	B	827	CLA	CHA-CBD-CGD-O2D
12	L	203	CLA	CHA-CBD-CGD-O1D
12	L	203	CLA	CHA-CBD-CGD-O2D
12	B	831	CLA	C8-C10-C11-C12
12	A	840	CLA	CBA-CGA-O2A-C1
15	A	851	BCR	C11-C10-C9-C8
15	B	835	BCR	C11-C10-C9-C8
15	F	202	BCR	C20-C21-C22-C23
15	L	201	BCR	C20-C21-C22-C23
12	B	827	CLA	CAA-CBA-CGA-O1A
12	A	823	CLA	CAA-CBA-CGA-O2A
12	A	838	CLA	C5-C6-C7-C8
12	A	827	CLA	CAA-CBA-CGA-O2A
12	B	813	CLA	CAA-CBA-CGA-O2A
16	A	853	LHG	O1-C1-C2-O2
12	A	827	CLA	C6-C7-C8-C10
12	B	809	CLA	C2-C3-C5-C6
12	B	832	CLA	C2C-C3C-CAC-CBC
12	B	821	CLA	C16-C17-C18-C19
12	A	840	CLA	C3-C5-C6-C7
12	A	840	CLA	C2A-CAA-CBA-CGA
12	B	832	CLA	C4-C3-C5-C6
12	A	817	CLA	CAA-CBA-CGA-O1A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
12	A	807	CLA	C1A-C2A-CAA-CBA
12	A	809	CLA	C1A-C2A-CAA-CBA
12	A	840	CLA	C1A-C2A-CAA-CBA
12	B	801	CLA	C1A-C2A-CAA-CBA
12	B	802	CLA	C1A-C2A-CAA-CBA
12	A	835	CLA	C2-C1-O2A-CGA
12	A	840	CLA	CAA-CBA-CGA-O1A
12	A	838	CLA	CAA-CBA-CGA-O1A
12	L	204	CLA	CAA-CBA-CGA-O2A
16	A	853	LHG	C4-O6-P-O5
12	A	823	CLA	CAA-CBA-CGA-O1A
12	B	813	CLA	CAA-CBA-CGA-O1A
12	B	829	CLA	CAA-CBA-CGA-O1A
12	B	807	CLA	CAA-CBA-CGA-O1A
12	B	807	CLA	C16-C17-C18-C19
15	A	850	BCR	C18-C19-C20-C21
12	A	841	CLA	O1D-CGD-O2D-CED
11	A	801	CL0	CAD-CBD-CGD-O1D
12	A	814	CLA	CAD-CBD-CGD-O1D
12	A	815	CLA	CAD-CBD-CGD-O1D
12	B	829	CLA	C8-C10-C11-C12
12	A	819	CLA	C11-C10-C8-C9
12	B	810	CLA	C11-C10-C8-C9
12	B	825	CLA	C11-C10-C8-C9
12	B	831	CLA	C11-C10-C8-C9
12	A	820	CLA	CAA-CBA-CGA-O2A
12	B	816	CLA	C4-C3-C5-C6
12	B	832	CLA	C11-C12-C13-C15
12	L	204	CLA	CAA-CBA-CGA-O1A
12	A	839	CLA	CAA-CBA-CGA-O2A
12	B	804	CLA	CAA-CBA-CGA-O2A
12	B	808	CLA	CAA-CBA-CGA-O2A
12	B	830	CLA	CAA-CBA-CGA-O2A
12	A	827	CLA	CAA-CBA-CGA-O1A
17	B	837	LMG	C40-C41-C42-C43
12	B	810	CLA	C8-C10-C11-C12
12	B	814	CLA	C2A-CAA-CBA-CGA
12	A	828	CLA	CAA-CBA-CGA-O2A

There are no ring outliers.

100 monomers are involved in 234 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	B	807	CLA	8	0
12	B	812	CLA	2	0
12	F	203	CLA	1	0
12	A	841	CLA	2	0
15	L	205	BCR	3	0
12	B	806	CLA	5	0
15	A	846	BCR	2	0
12	B	829	CLA	5	0
12	A	815	CLA	2	0
12	A	805	CLA	9	0
12	A	809	CLA	3	0
12	A	833	CLA	3	0
13	A	844	PQN	3	0
12	A	840	CLA	1	0
12	A	819	CLA	6	0
12	A	843	CLA	1	0
12	B	802	CLA	9	0
12	B	828	CLA	1	0
12	B	831	CLA	3	0
12	L	203	CLA	6	0
12	A	834	CLA	4	0
12	A	842	CLA	6	0
15	J	102	BCR	4	0
12	B	805	CLA	1	0
12	B	830	CLA	1	0
12	A	802	CLA	2	0
12	B	824	CLA	3	0
12	L	204	CLA	2	0
13	B	833	PQN	5	0
12	B	826	CLA	1	0
12	L	202	CLA	3	0
12	A	820	CLA	2	0
12	B	823	CLA	4	0
12	A	830	CLA	5	0
12	B	819	CLA	1	0
12	A	803	CLA	3	0
12	A	839	CLA	1	0
12	B	808	CLA	3	0
15	L	201	BCR	5	0
15	J	103	BCR	2	0
12	B	820	CLA	3	0
12	A	811	CLA	1	0
12	A	826	CLA	1	0

Continued on next page...

Continued from previous page...

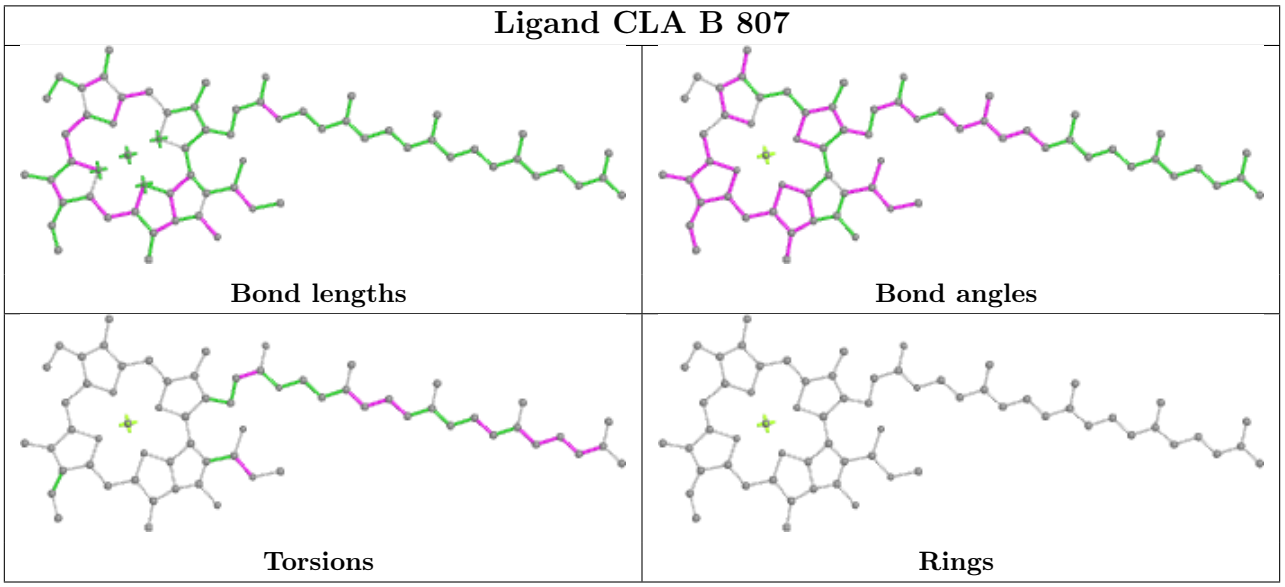
Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	B	810	CLA	2	0
12	A	831	CLA	2	0
12	A	804	CLA	1	0
12	A	813	CLA	2	0
12	A	837	CLA	1	0
12	B	817	CLA	1	0
15	A	849	BCR	1	0
15	A	850	BCR	6	0
12	B	816	CLA	2	0
15	I	101	BCR	5	0
12	A	808	CLA	6	0
12	B	822	CLA	9	0
12	B	803	CLA	2	0
12	A	836	CLA	2	0
12	B	811	CLA	2	0
12	A	824	CLA	2	0
15	B	835	BCR	4	0
12	A	825	CLA	2	0
15	L	206	BCR	3	0
12	A	827	CLA	2	0
15	A	851	BCR	1	0
12	B	821	CLA	5	0
12	B	825	CLA	2	0
12	A	832	CLA	6	0
12	A	822	CLA	1	0
12	B	814	CLA	1	0
15	B	834	BCR	2	0
12	A	810	CLA	1	0
12	A	854	CLA	4	0
12	B	818	CLA	4	0
12	B	827	CLA	1	0
12	A	812	CLA	3	0
15	A	847	BCR	4	0
12	A	821	CLA	4	0
15	M	101	BCR	2	0
12	A	817	CLA	1	0
12	B	813	CLA	2	0
15	A	848	BCR	5	0
15	B	836	BCR	2	0
12	B	809	CLA	1	0
12	A	818	CLA	3	0
12	A	838	CLA	4	0

Continued on next page...

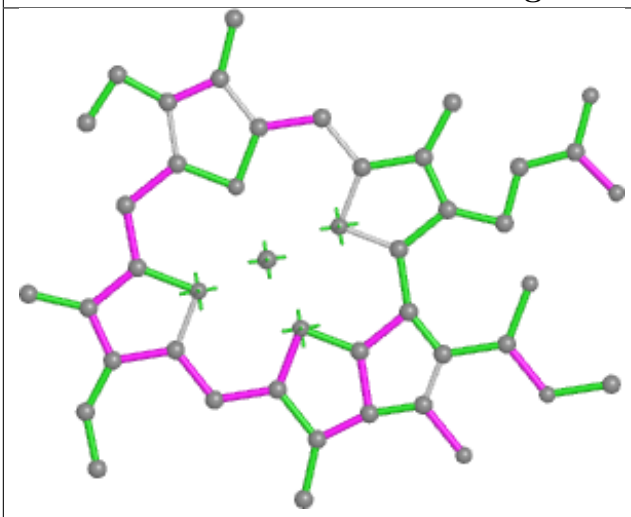
Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	A	801	CL0	3	0
12	A	807	CLA	3	0
15	F	201	BCR	4	0
12	A	806	CLA	3	0
17	B	837	LMG	7	0
12	A	828	CLA	8	0
16	A	852	LHG	3	0
12	B	804	CLA	5	0
15	F	202	BCR	3	0
12	B	801	CLA	4	0
15	J	104	BCR	2	0
12	A	835	CLA	2	0
12	J	101	CLA	1	0
12	A	829	CLA	5	0
12	B	832	CLA	8	0

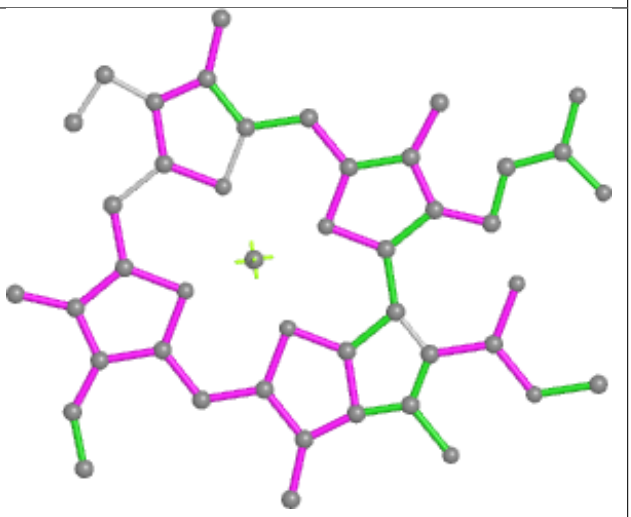
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



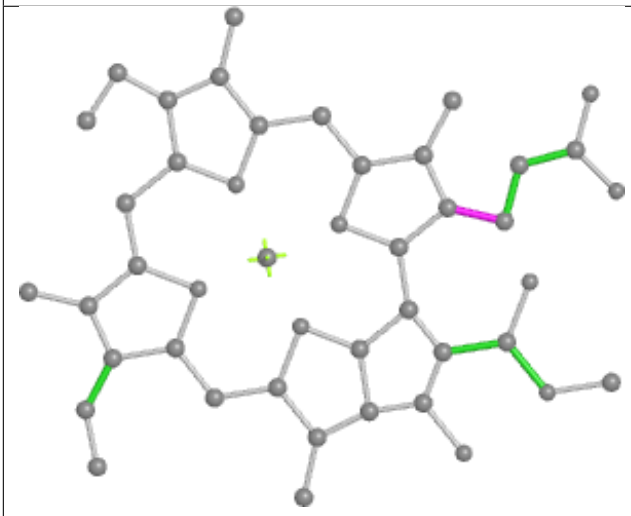
Ligand CLA B 812



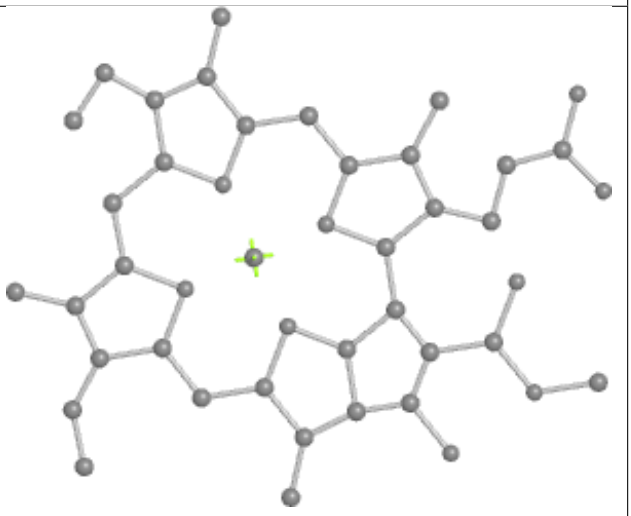
Bond lengths



Bond angles

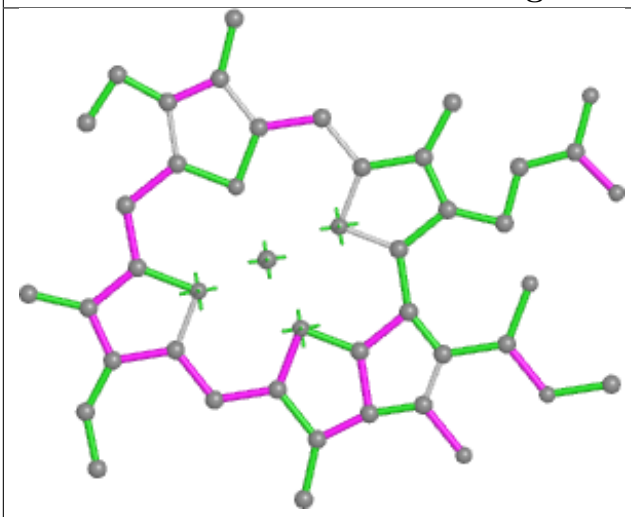


Torsions

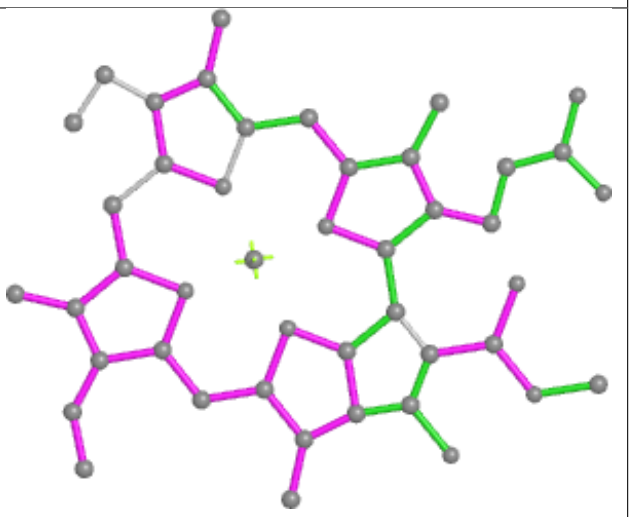


Rings

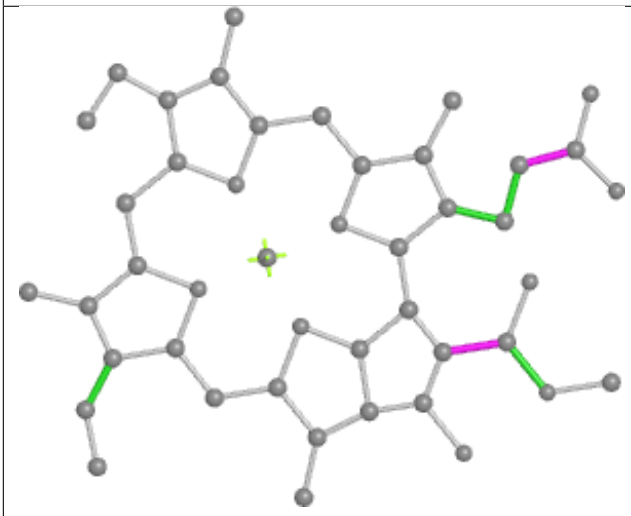
Ligand CLA F 203



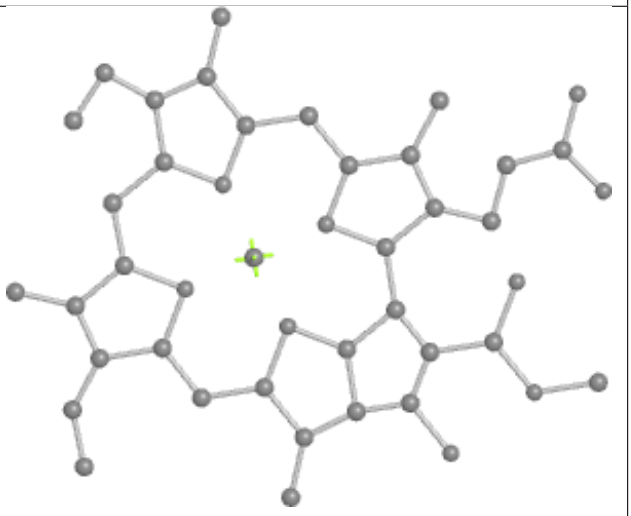
Bond lengths



Bond angles

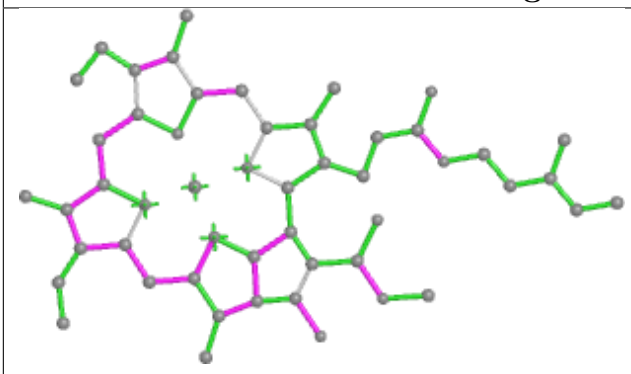


Torsions

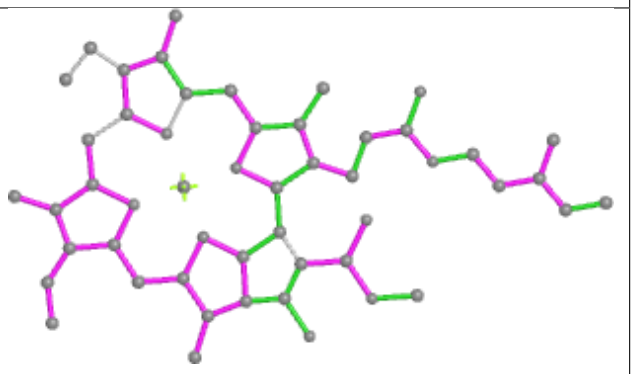


Rings

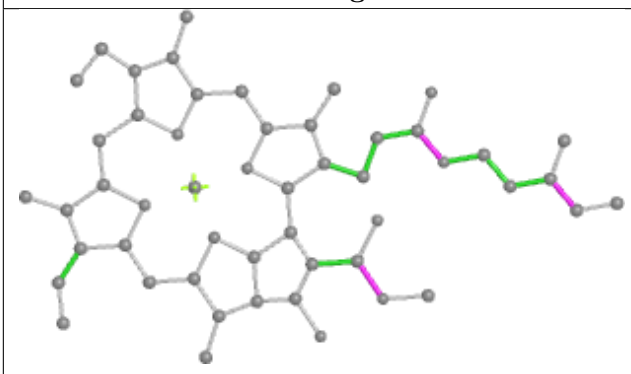
Ligand CLA A 841



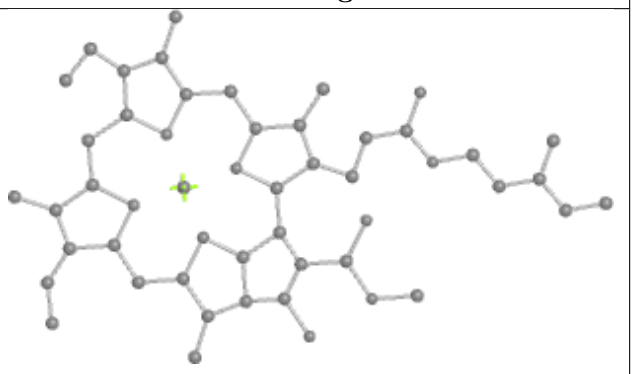
Bond lengths



Bond angles

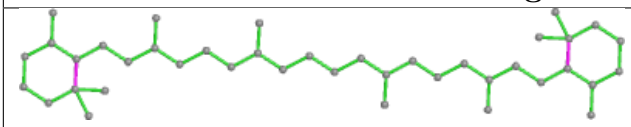


Torsions

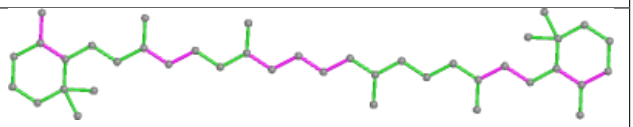


Rings

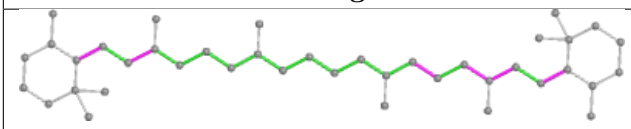
Ligand BCR L 205



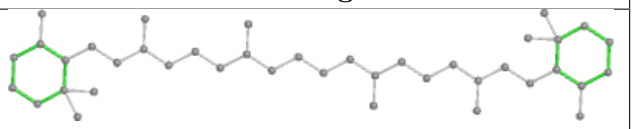
Bond lengths



Bond angles

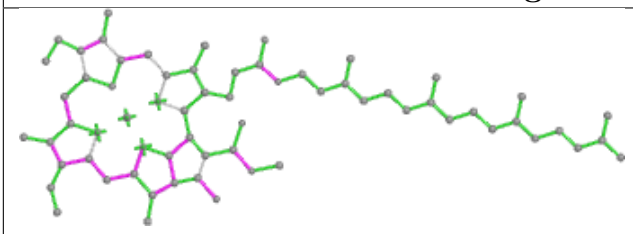


Torsions

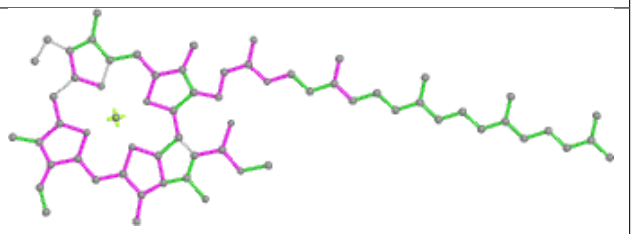


Rings

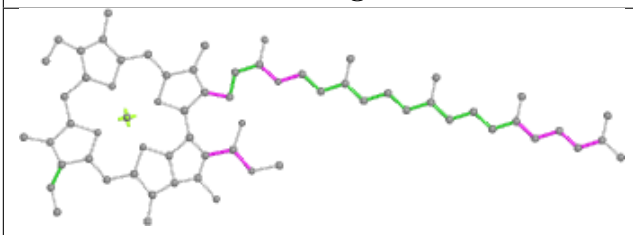
Ligand CLA B 806



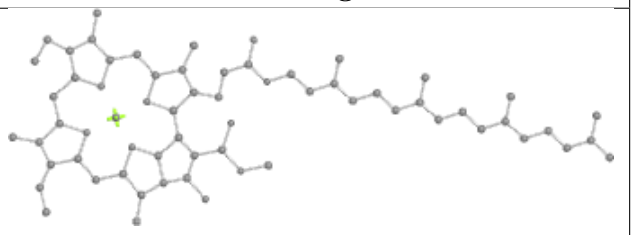
Bond lengths



Bond angles

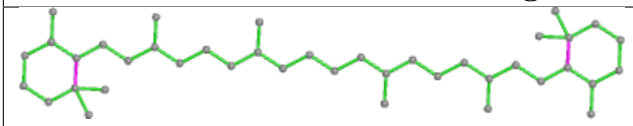


Torsions

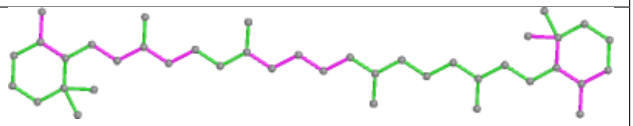


Rings

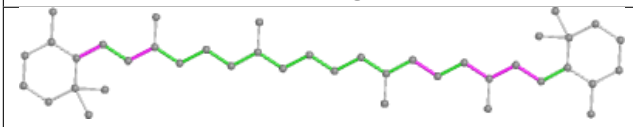
Ligand BCR A 846



Bond lengths



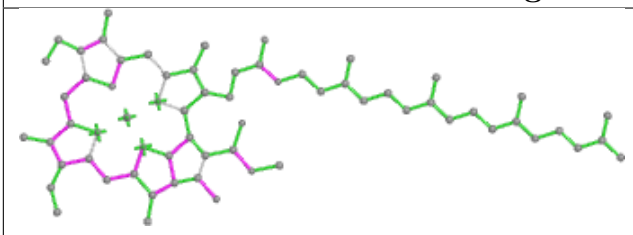
Bond angles



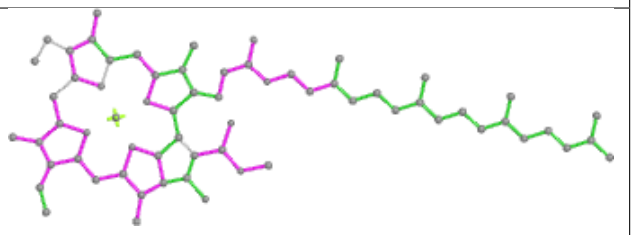
Torsions

Rings

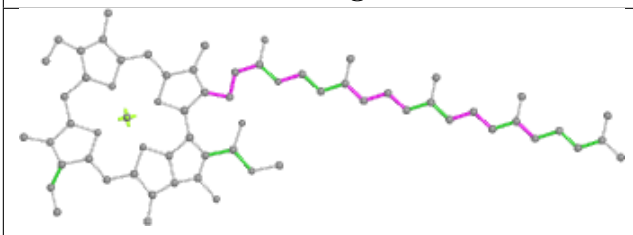
Ligand CLA B 829



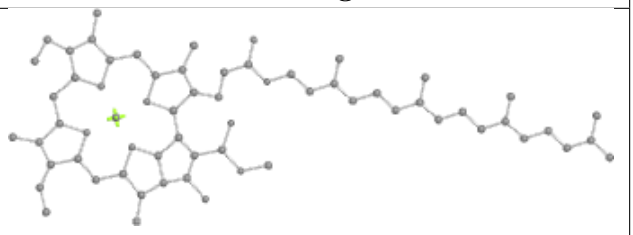
Bond lengths



Bond angles

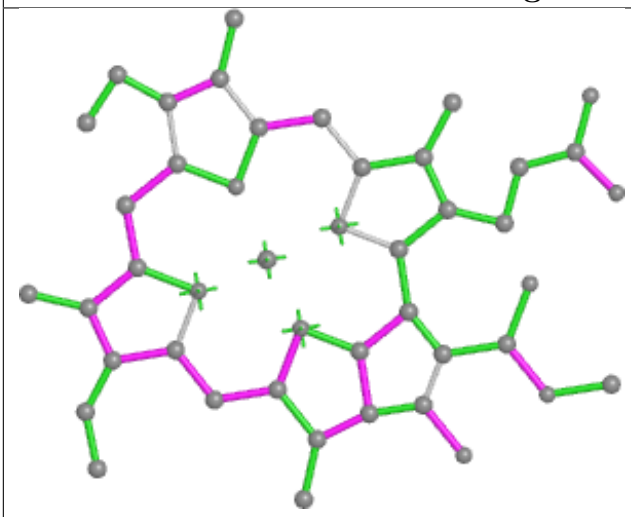


Torsions

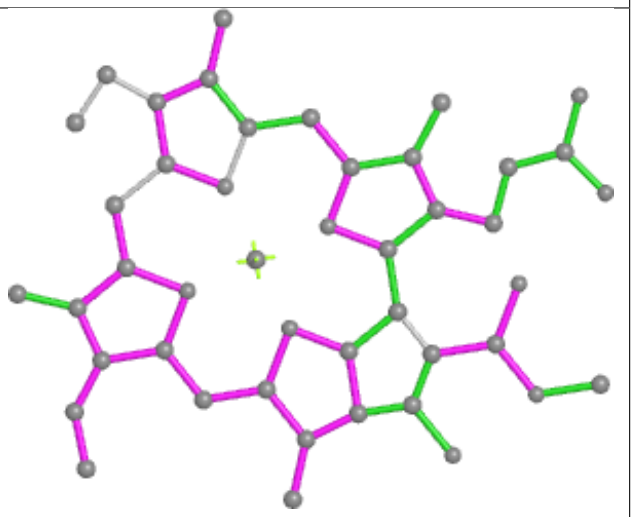


Rings

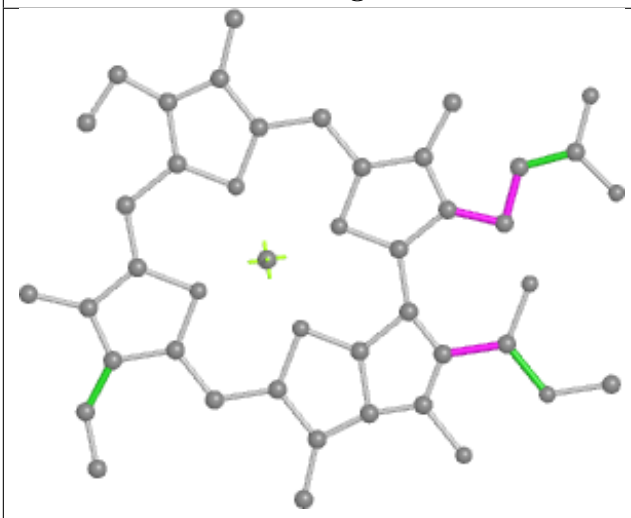
Ligand CLA A 815



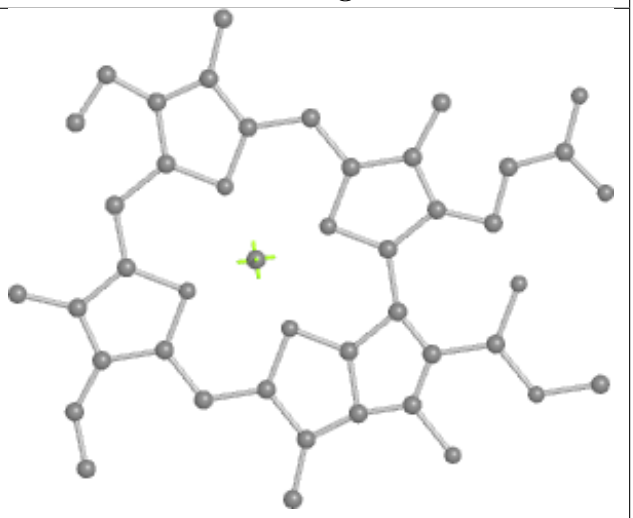
Bond lengths



Bond angles

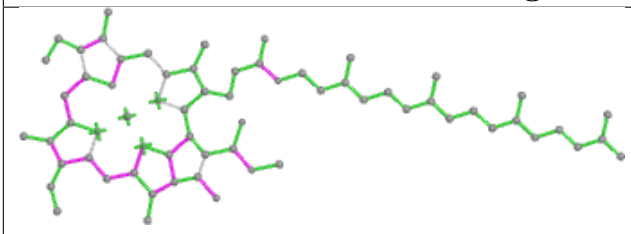


Torsions

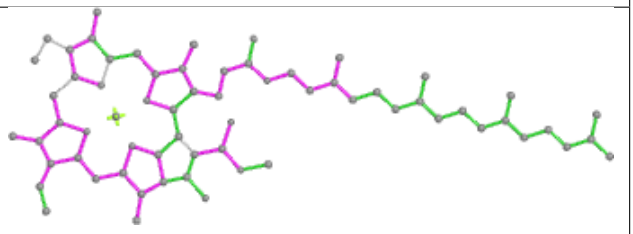


Rings

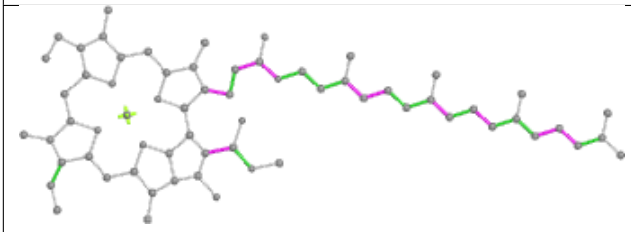
Ligand CLA A 805



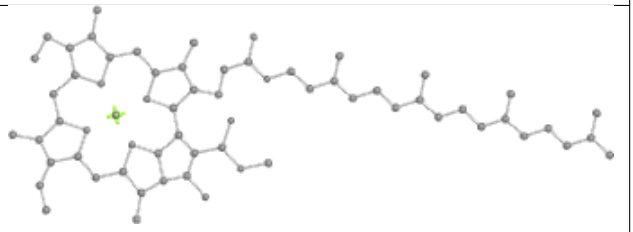
Bond lengths



Bond angles

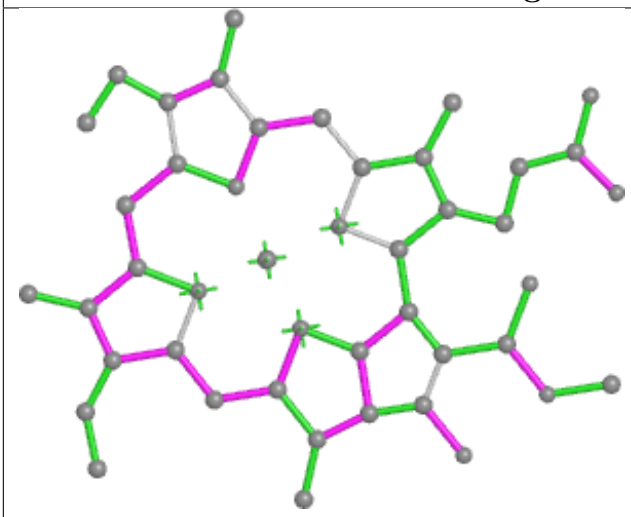


Torsions

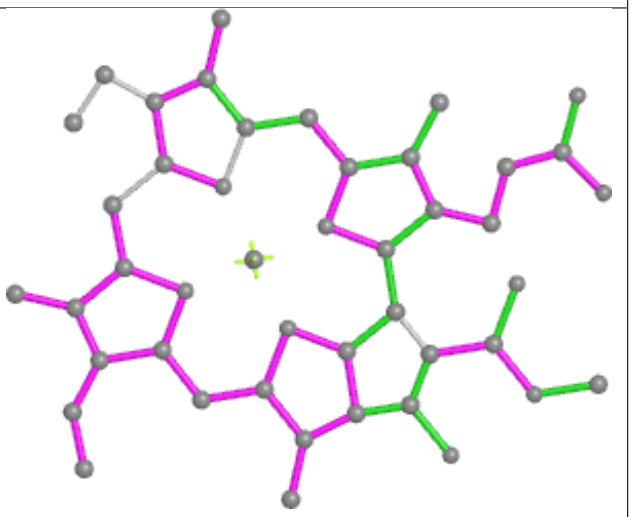


Rings

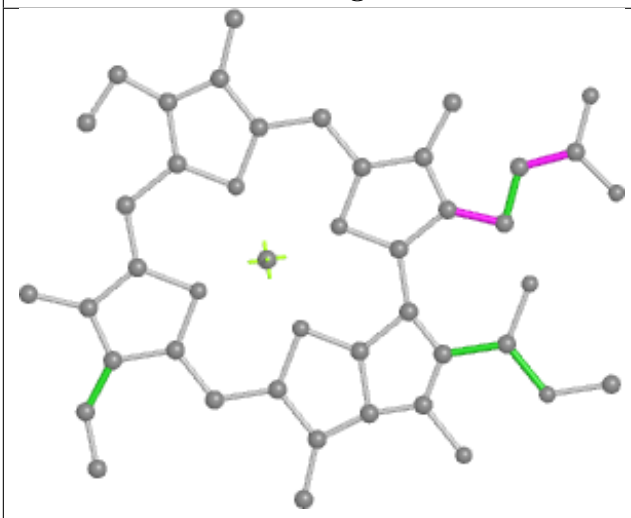
Ligand CLA A 809



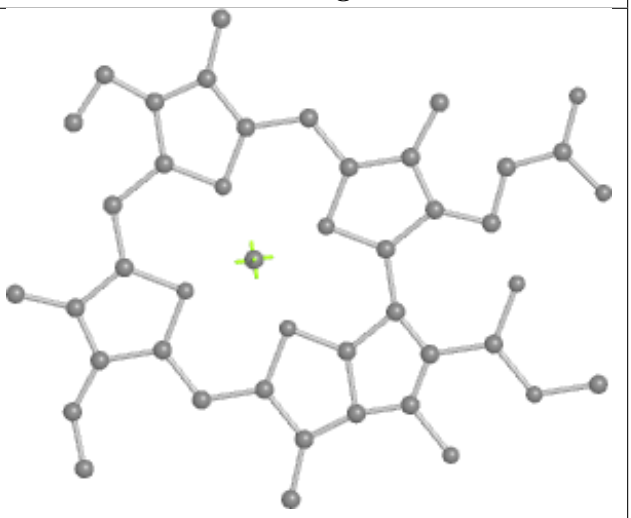
Bond lengths



Bond angles

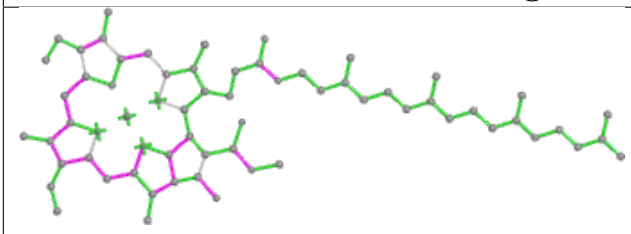


Torsions

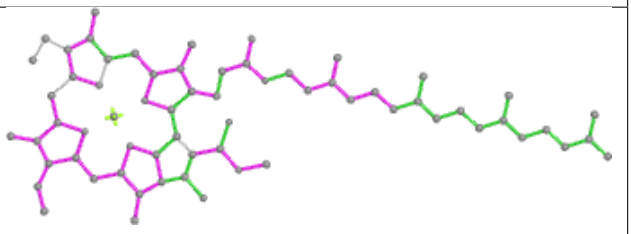


Rings

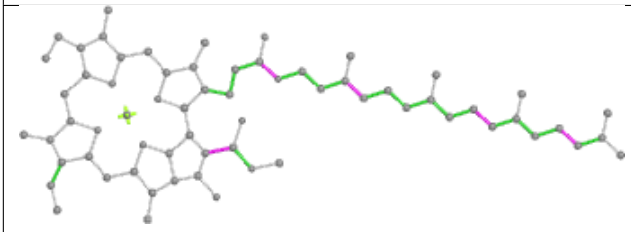
Ligand CLA A 833



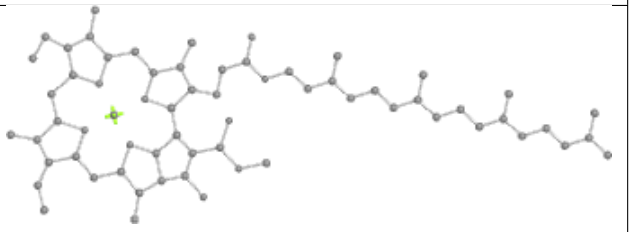
Bond lengths



Bond angles

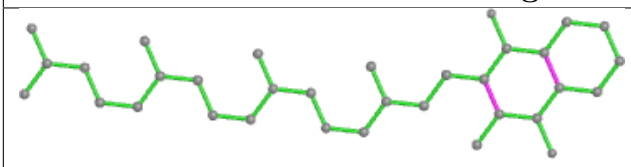


Torsions

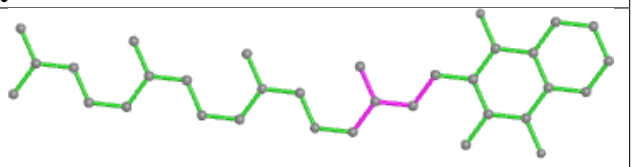


Rings

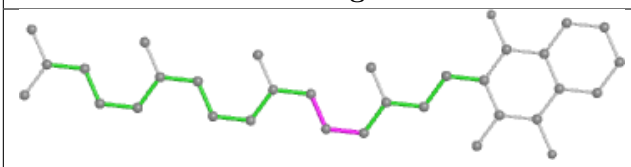
Ligand PQN A 844



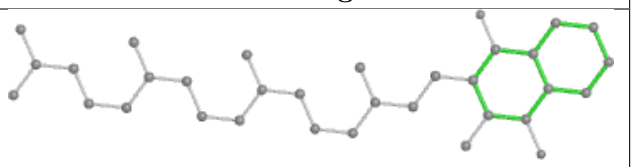
Bond lengths



Bond angles

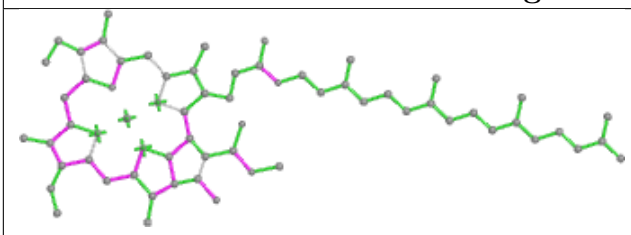


Torsions

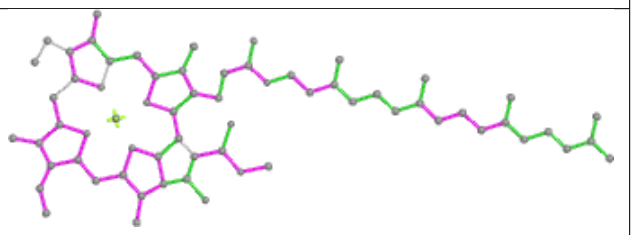


Rings

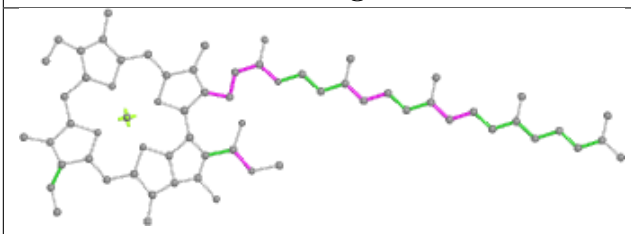
Ligand CLA A 840



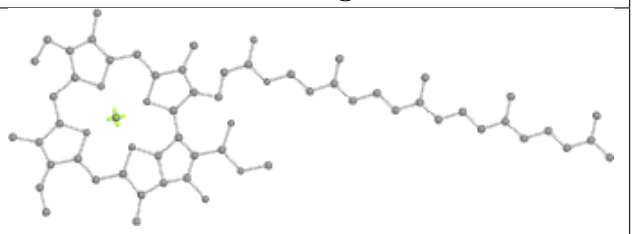
Bond lengths



Bond angles

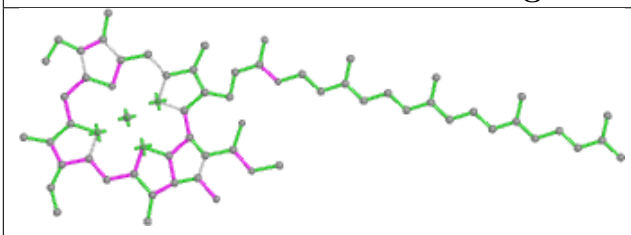


Torsions

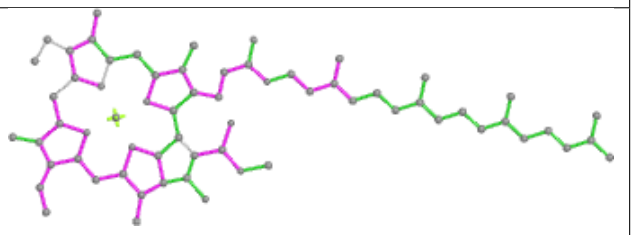


Rings

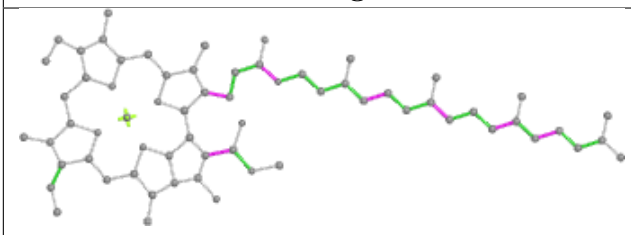
Ligand CLA A 819



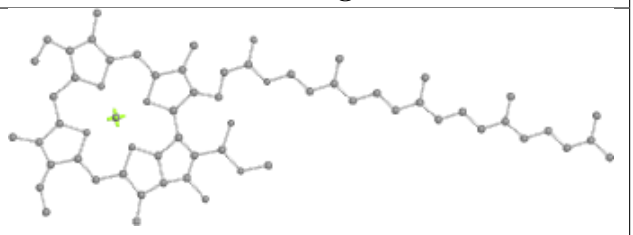
Bond lengths



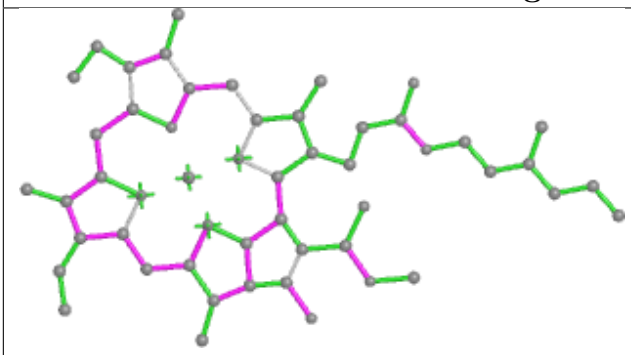
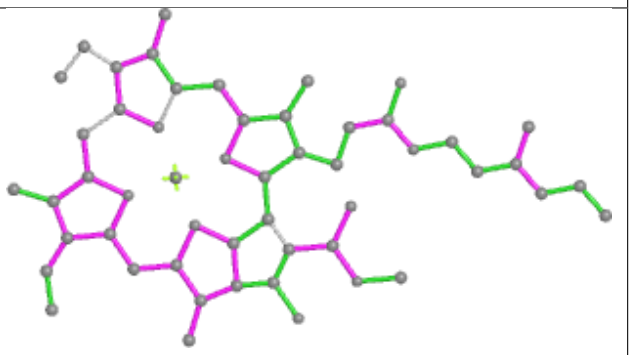
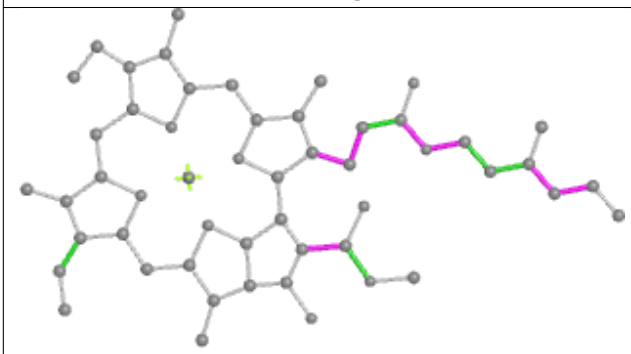
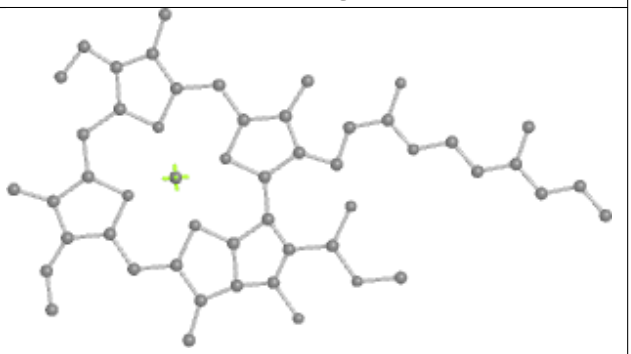
Bond angles

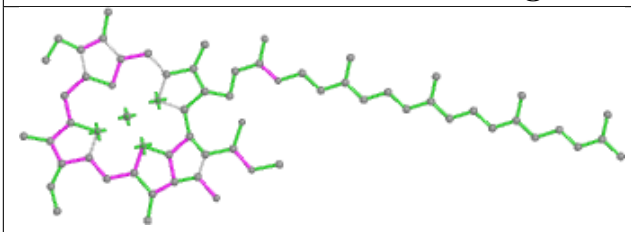
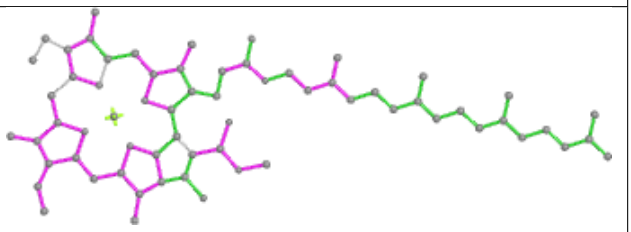
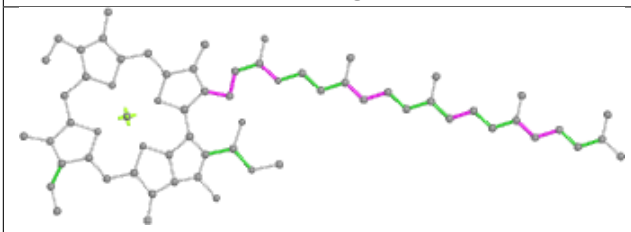
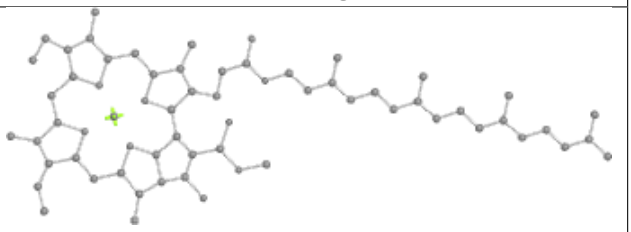


Torsions

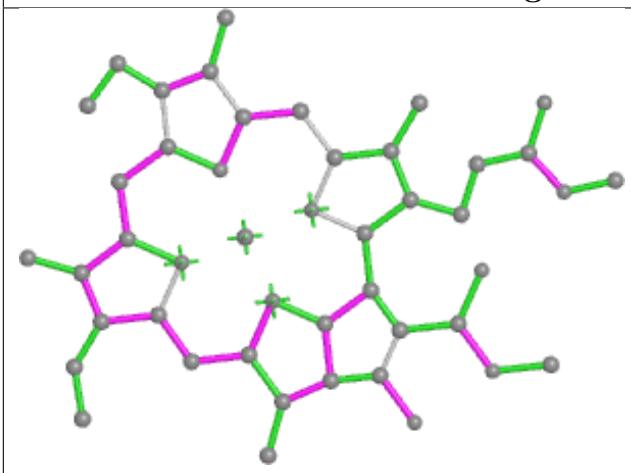


Rings

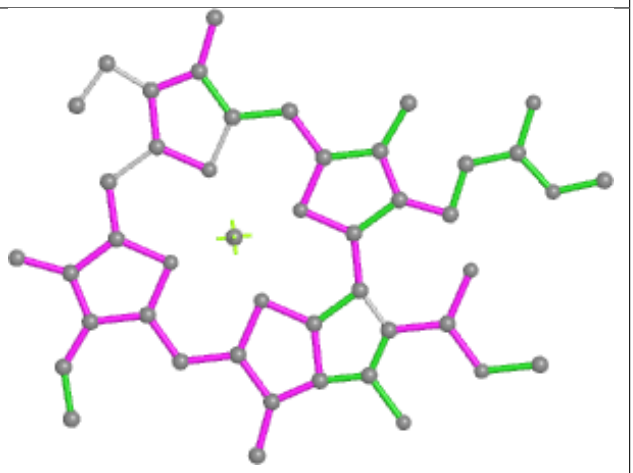
Ligand CLA A 843	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA B 802	
	
Bond lengths	Bond angles
	
Torsions	Rings

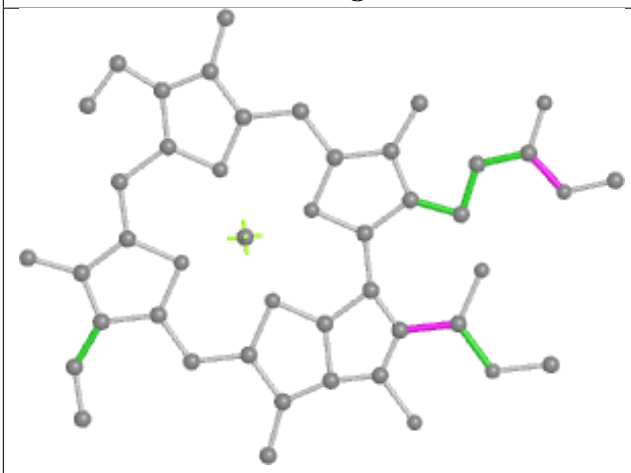
Ligand CLA B 828



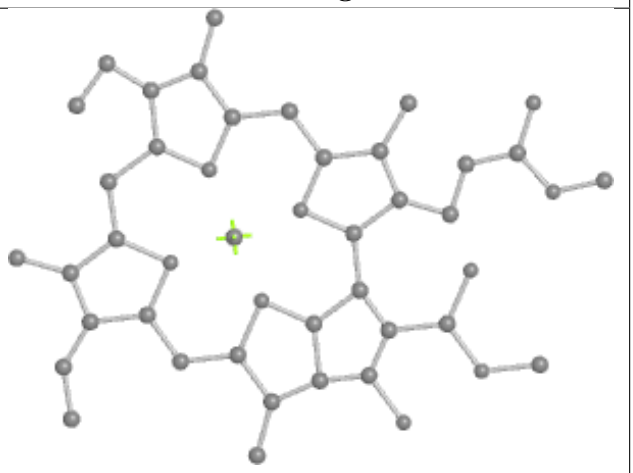
Bond lengths



Bond angles

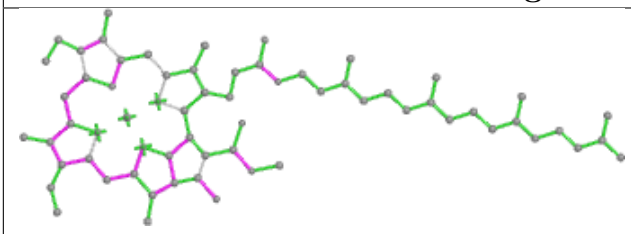


Torsions

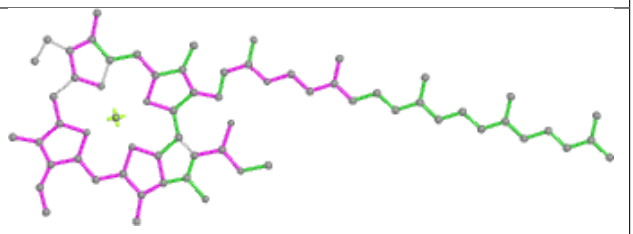


Rings

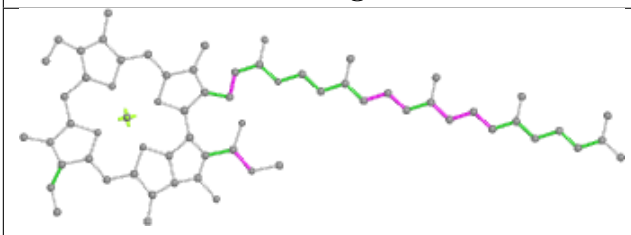
Ligand CLA B 831



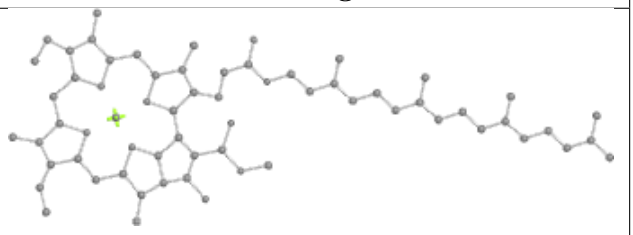
Bond lengths



Bond angles

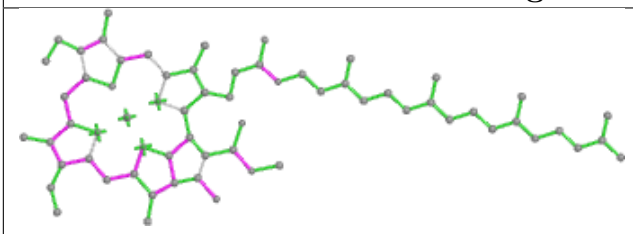


Torsions

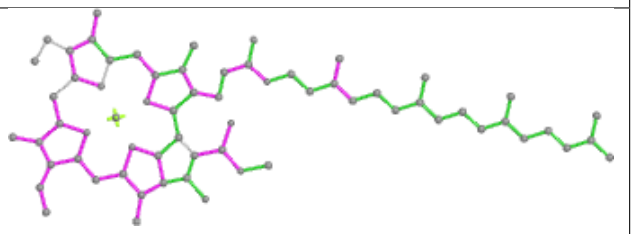


Rings

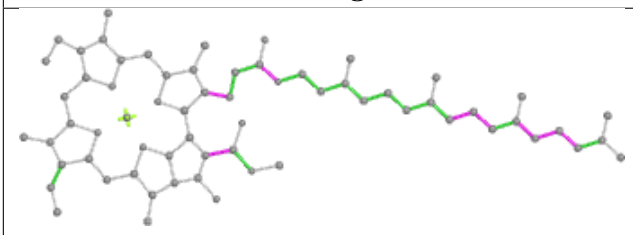
Ligand CLA L 203



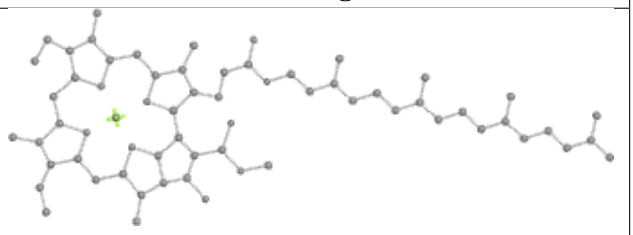
Bond lengths



Bond angles

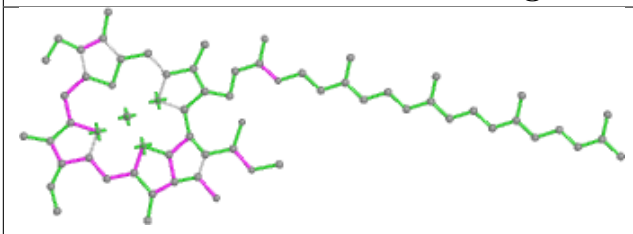


Torsions

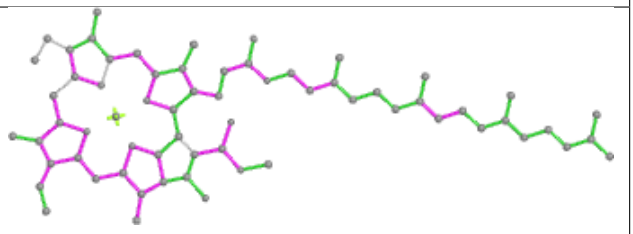


Rings

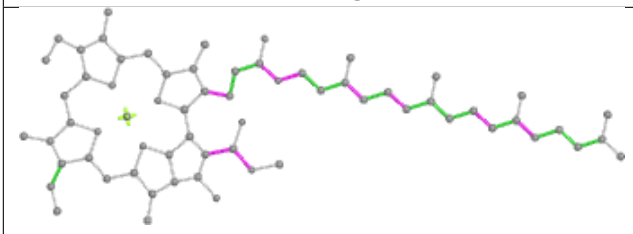
Ligand CLA A 834



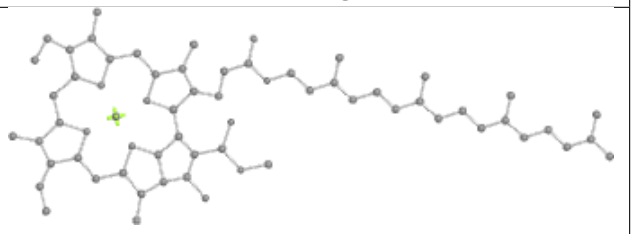
Bond lengths



Bond angles

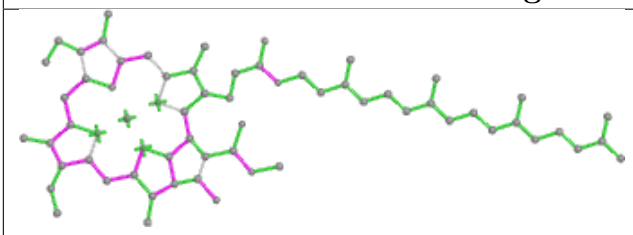


Torsions

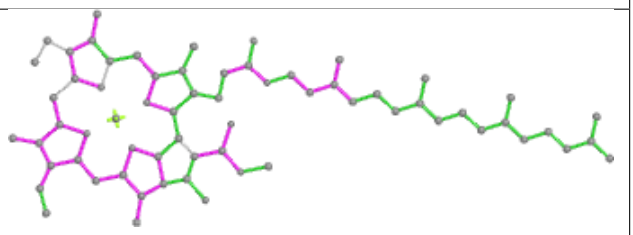


Rings

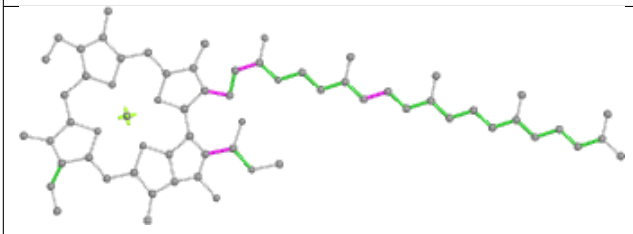
Ligand CLA A 842



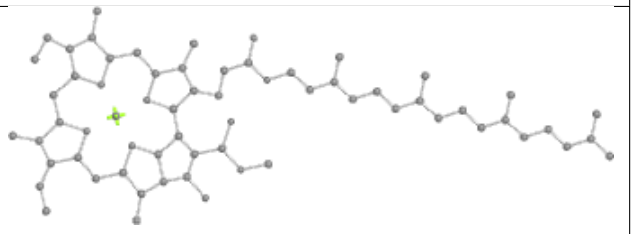
Bond lengths



Bond angles

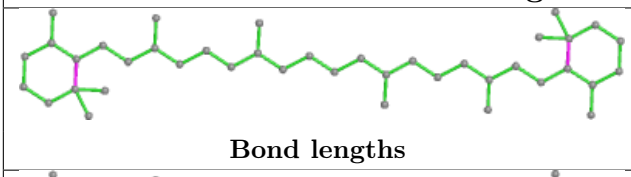


Torsions

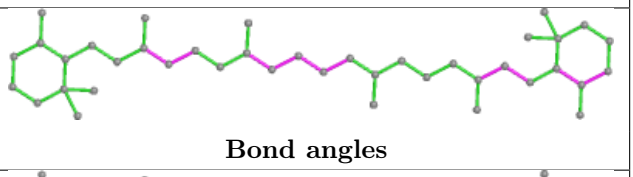


Rings

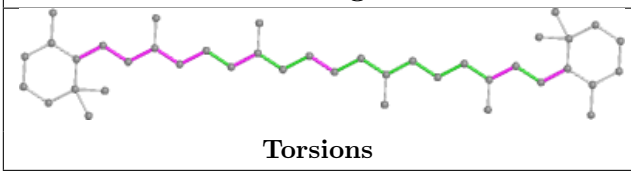
Ligand BCR J 102



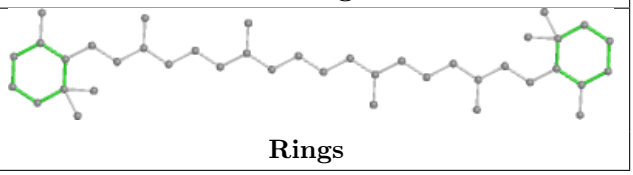
Bond lengths



Bond angles

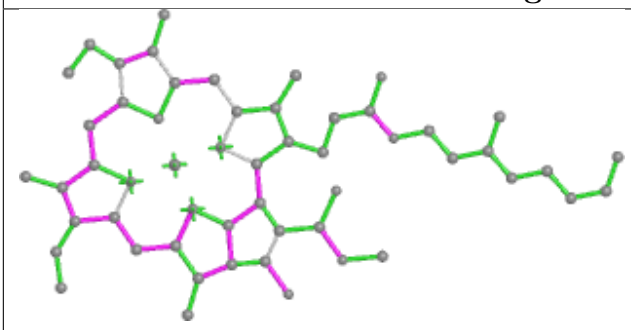


Torsions

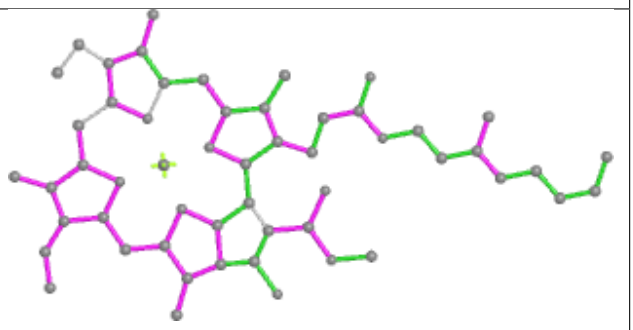


Rings

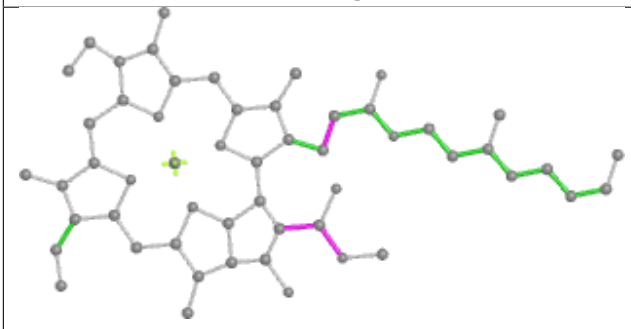
Ligand CLA B 805



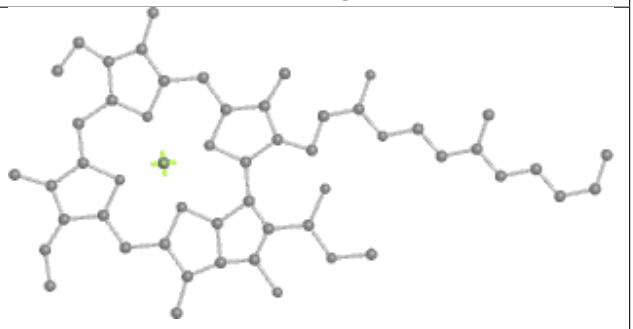
Bond lengths



Bond angles

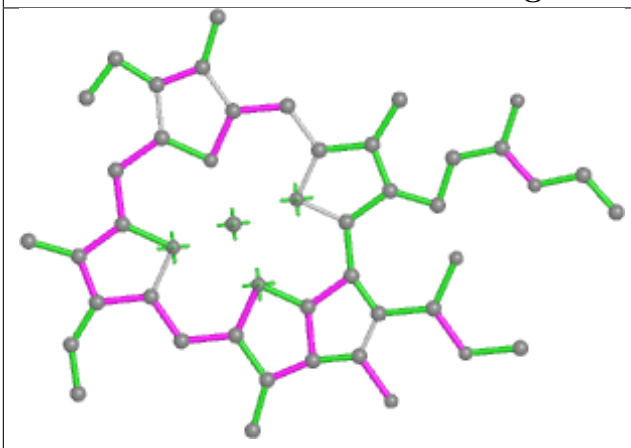


Torsions

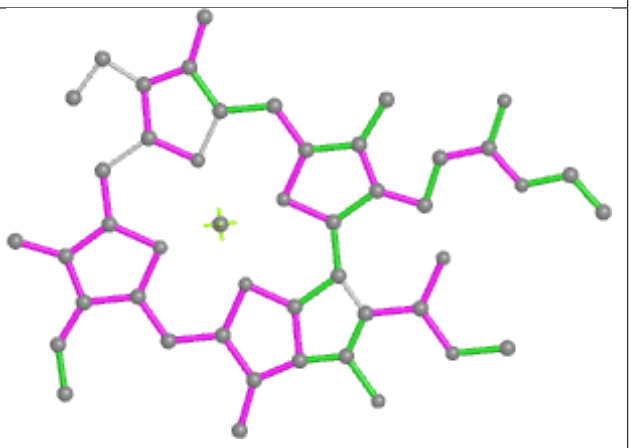


Rings

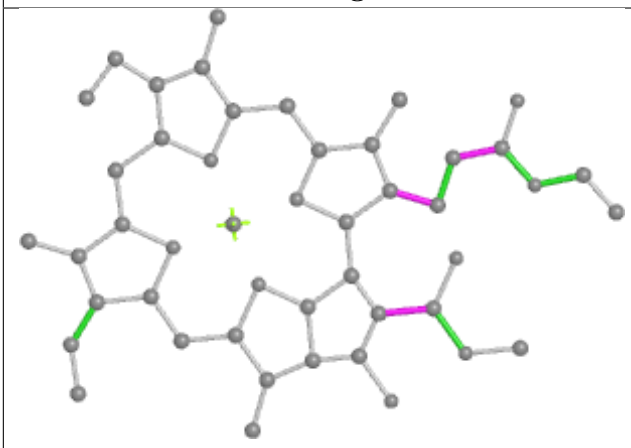
Ligand CLA B 830



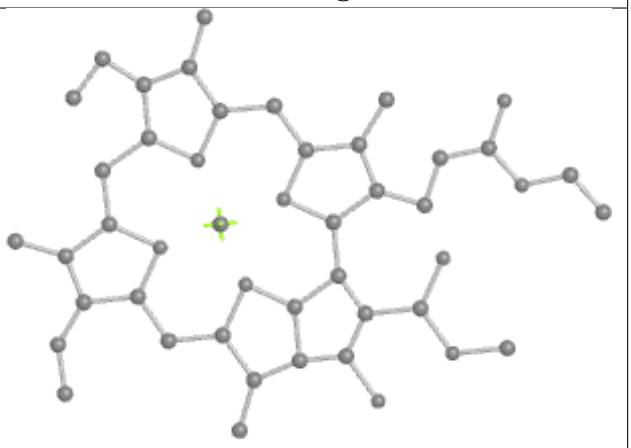
Bond lengths



Bond angles

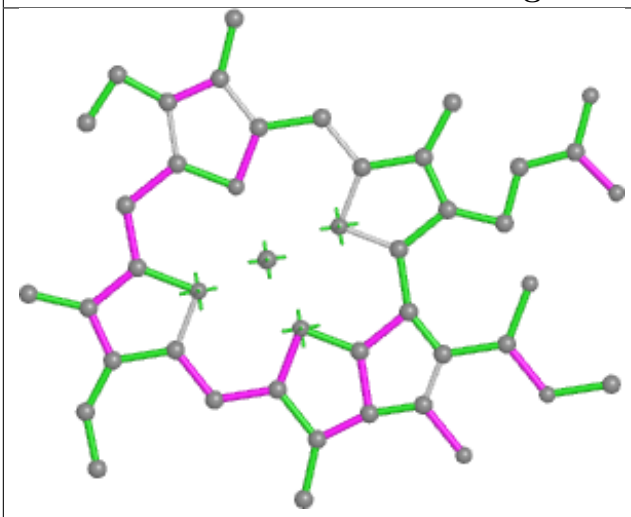


Torsions

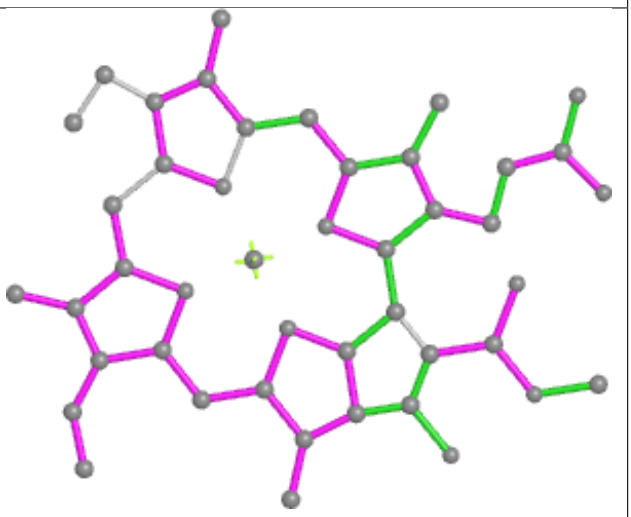


Rings

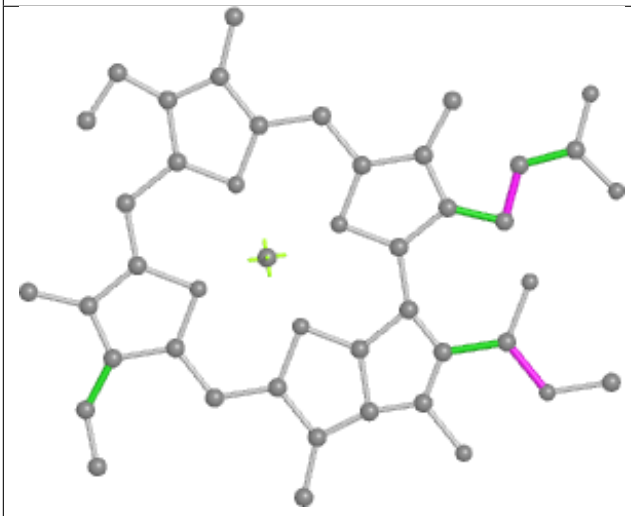
Ligand CLA A 802



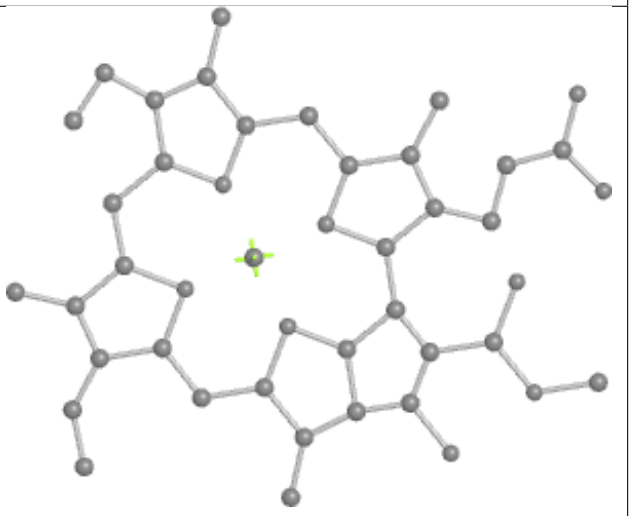
Bond lengths



Bond angles

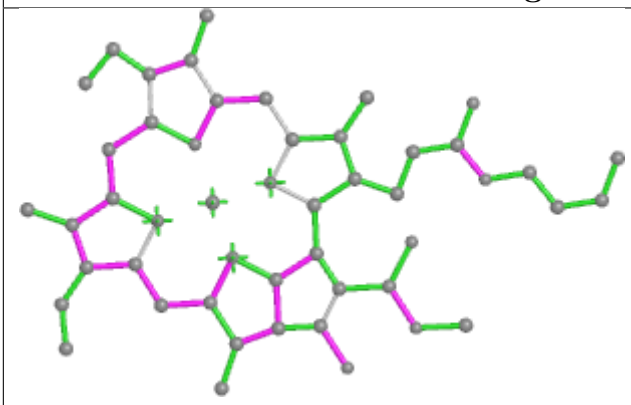


Torsions

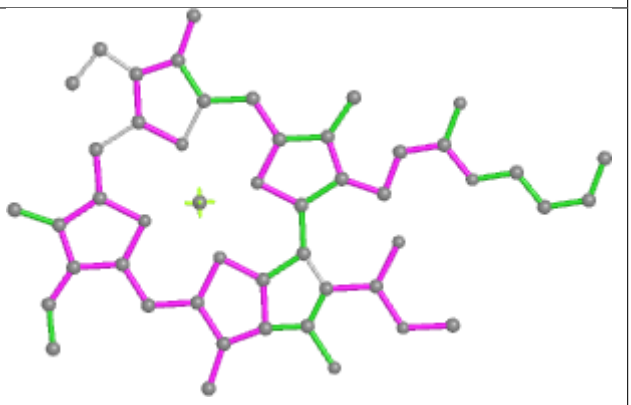


Rings

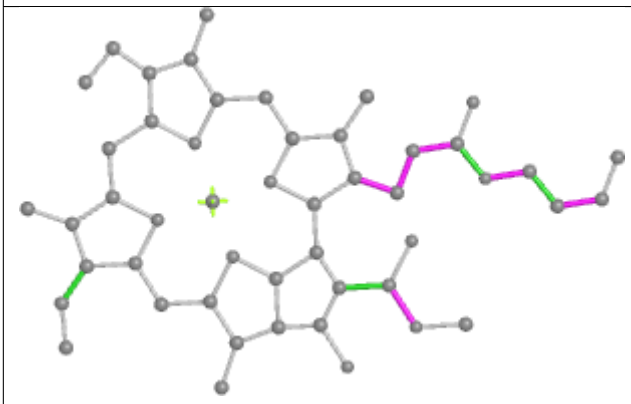
Ligand CLA B 824



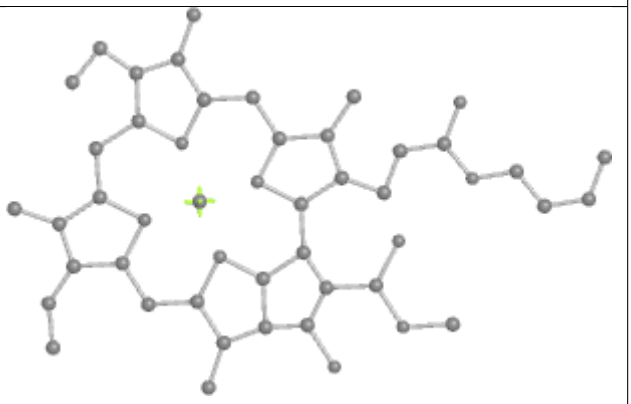
Bond lengths



Bond angles

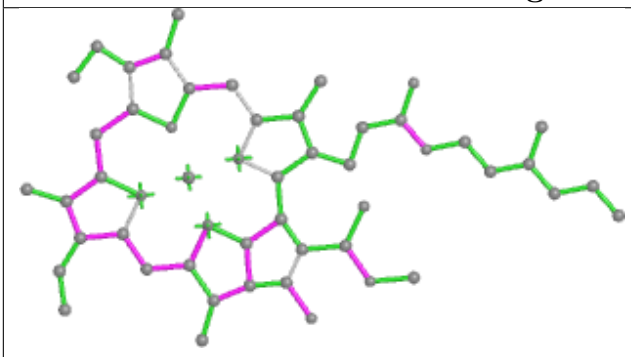


Torsions

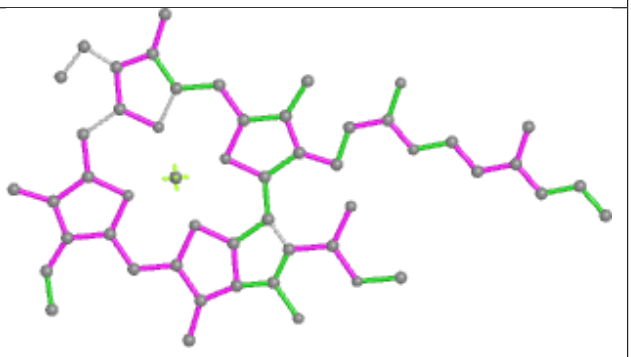


Rings

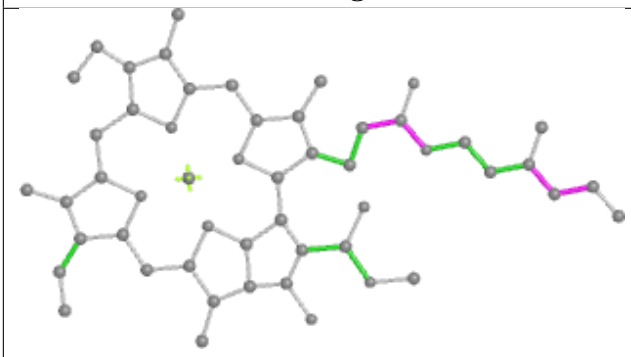
Ligand CLA L 204



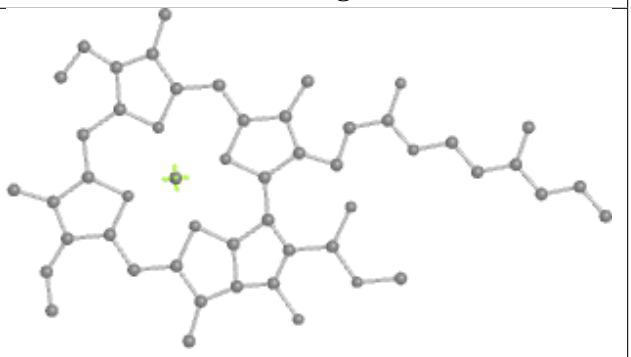
Bond lengths



Bond angles

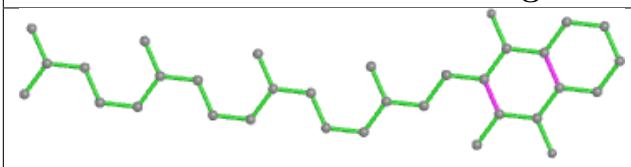


Torsions

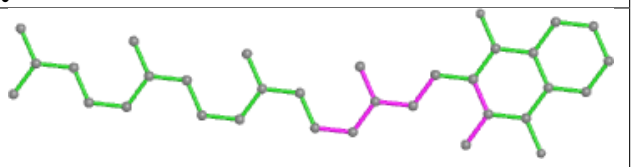


Rings

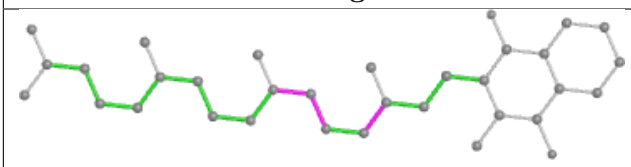
Ligand PQN B 833



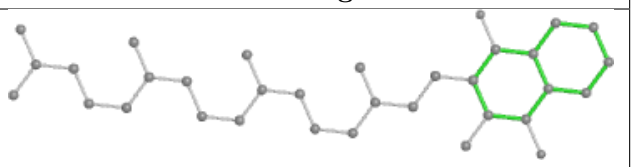
Bond lengths



Bond angles

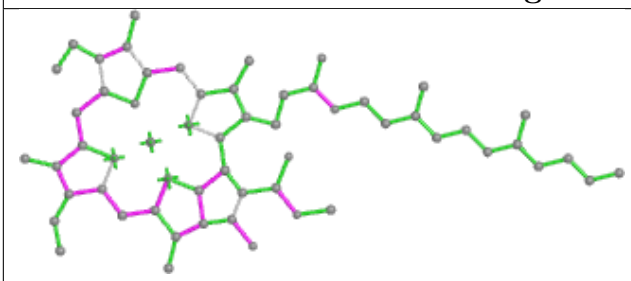


Torsions

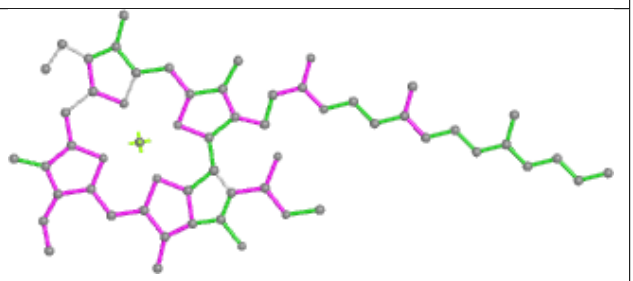


Rings

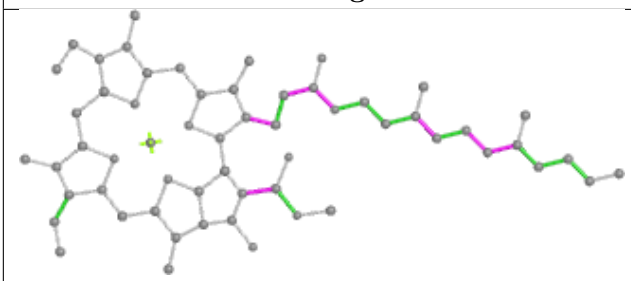
Ligand CLA B 826



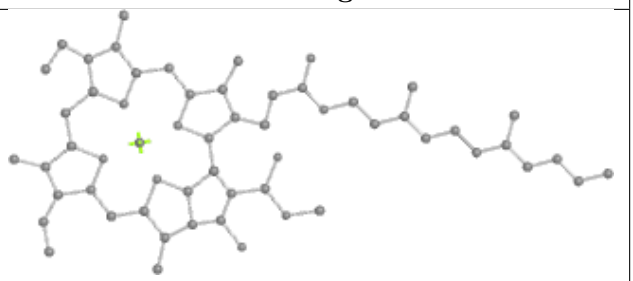
Bond lengths



Bond angles

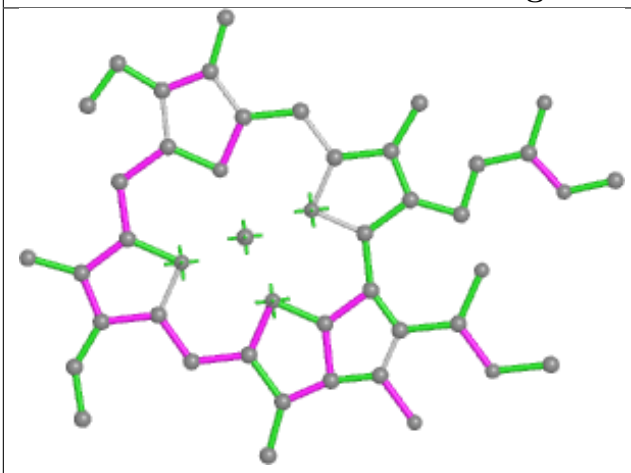


Torsions

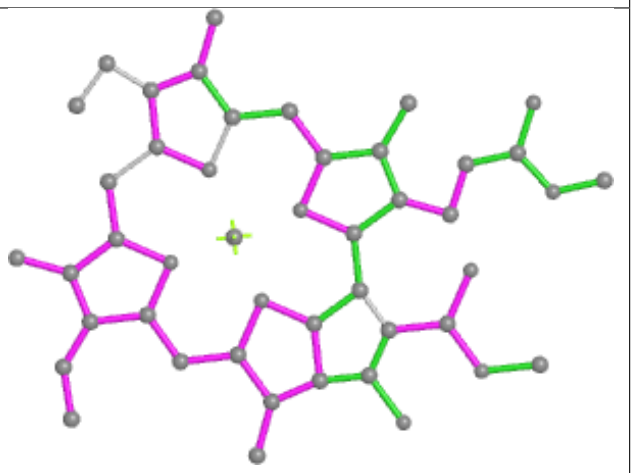


Rings

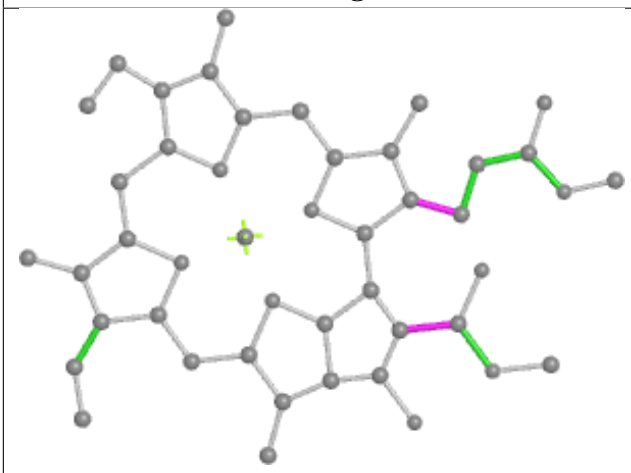
Ligand CLA L 202



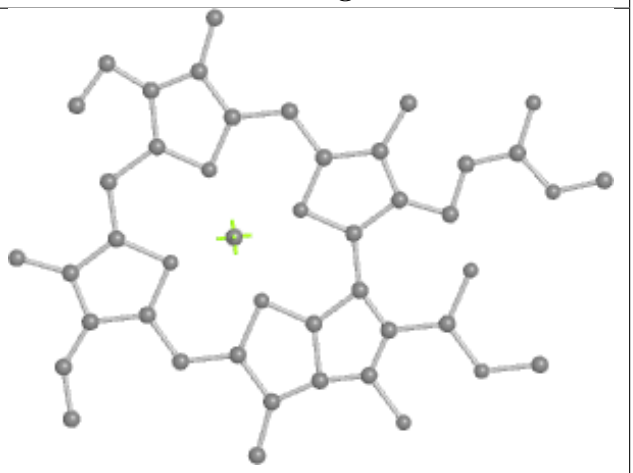
Bond lengths



Bond angles

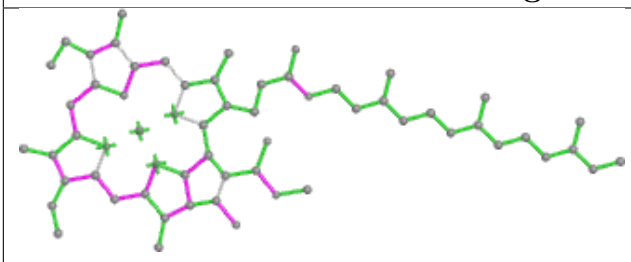


Torsions

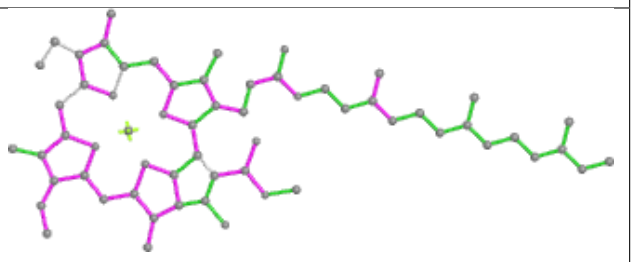


Rings

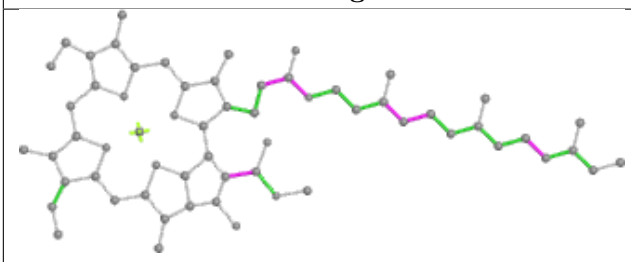
Ligand CLA A 820



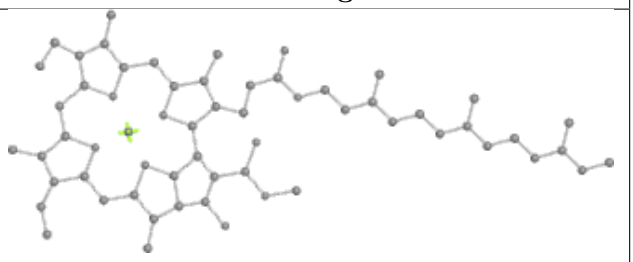
Bond lengths



Bond angles

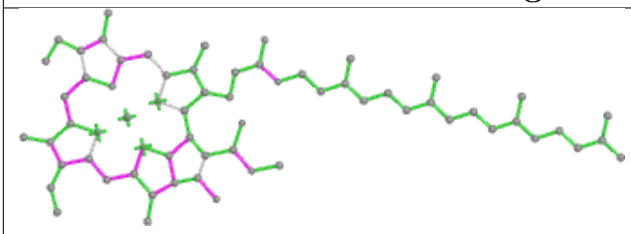


Torsions

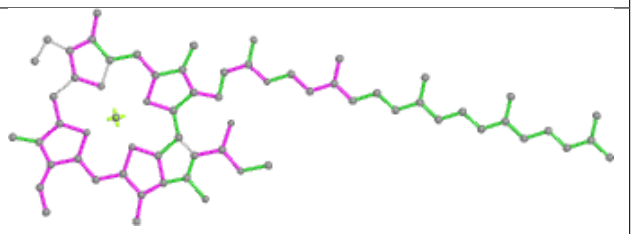


Rings

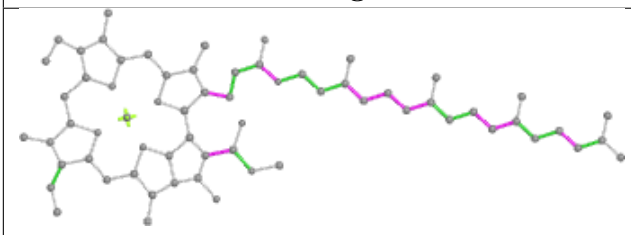
Ligand CLA B 823



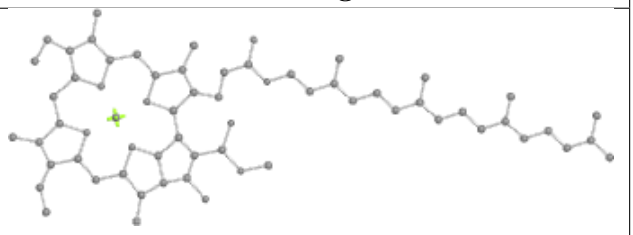
Bond lengths



Bond angles

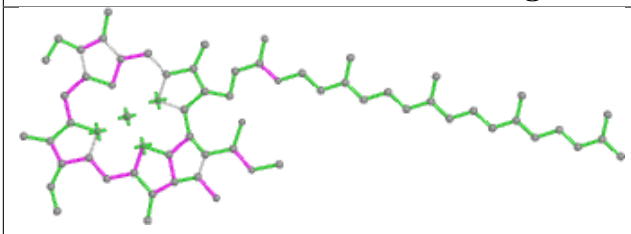


Torsions

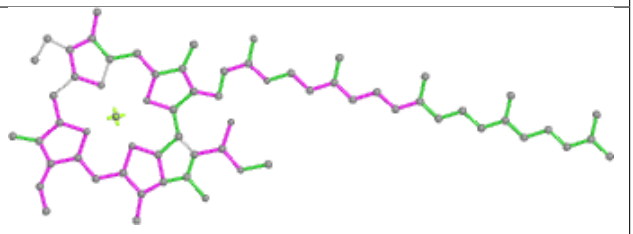


Rings

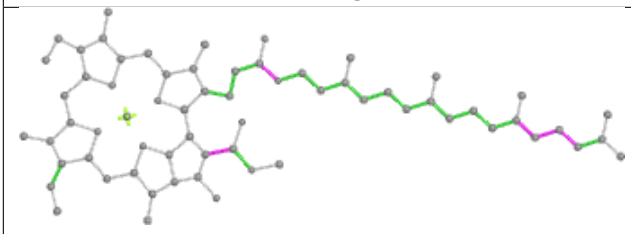
Ligand CLA A 830



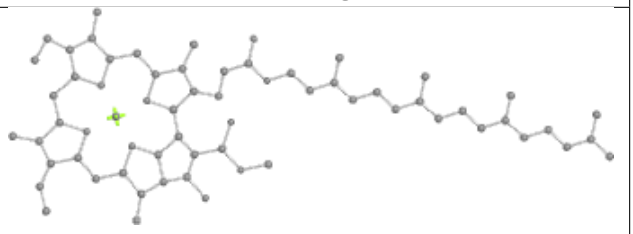
Bond lengths



Bond angles

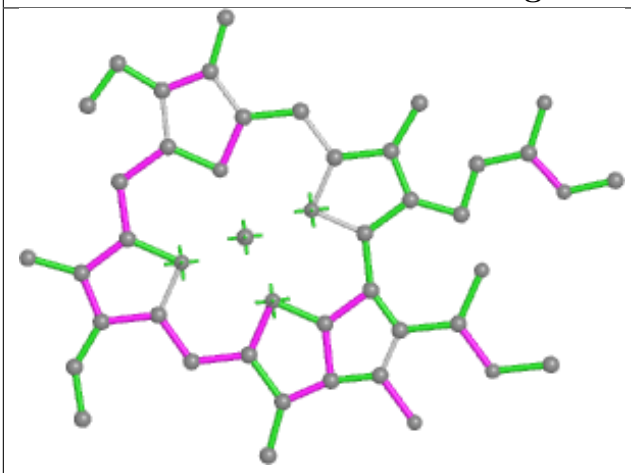


Torsions

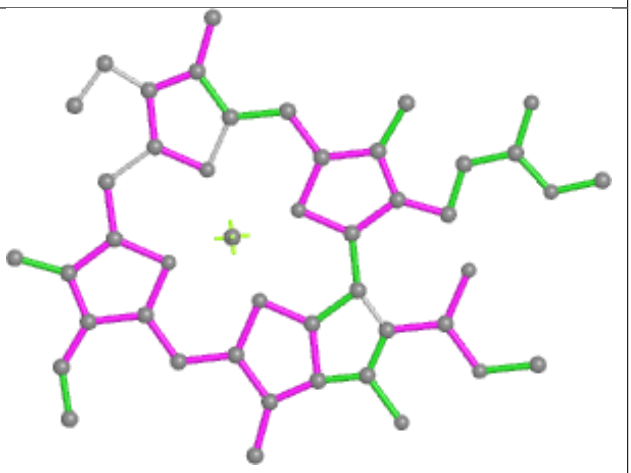


Rings

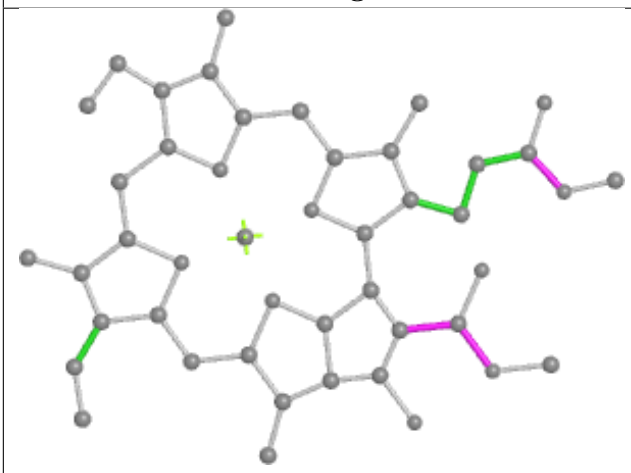
Ligand CLA B 819



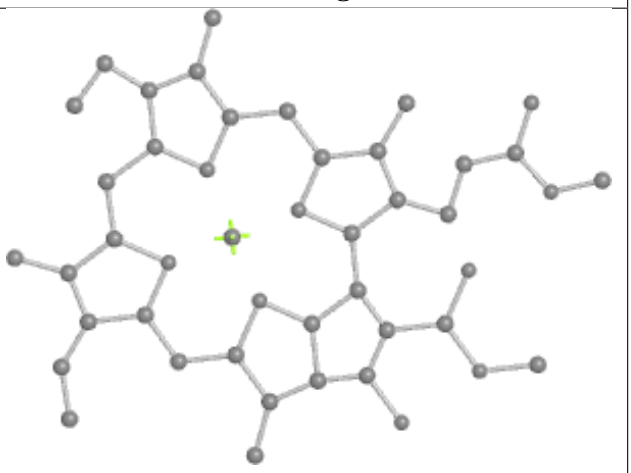
Bond lengths



Bond angles

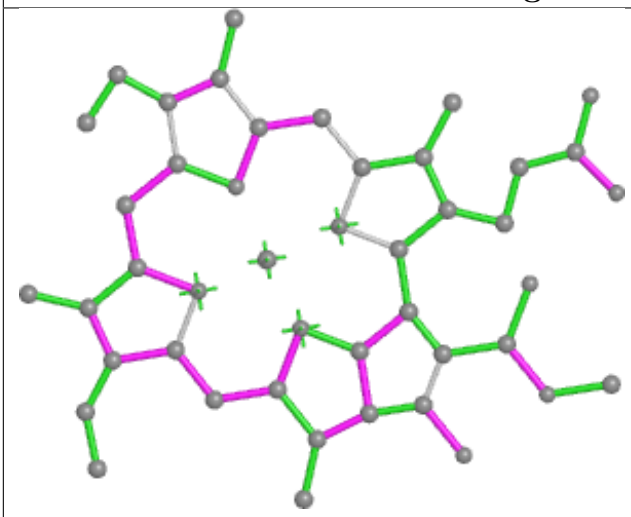


Torsions

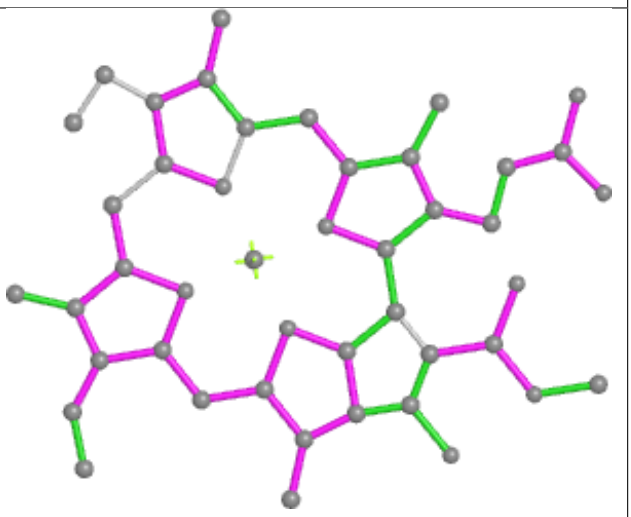


Rings

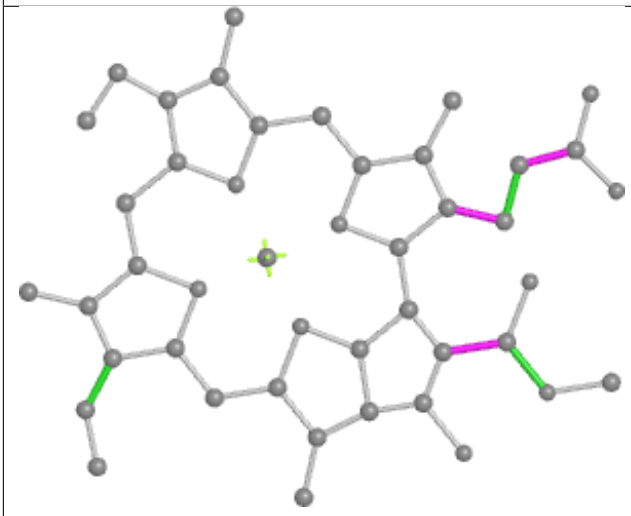
Ligand CLA A 803



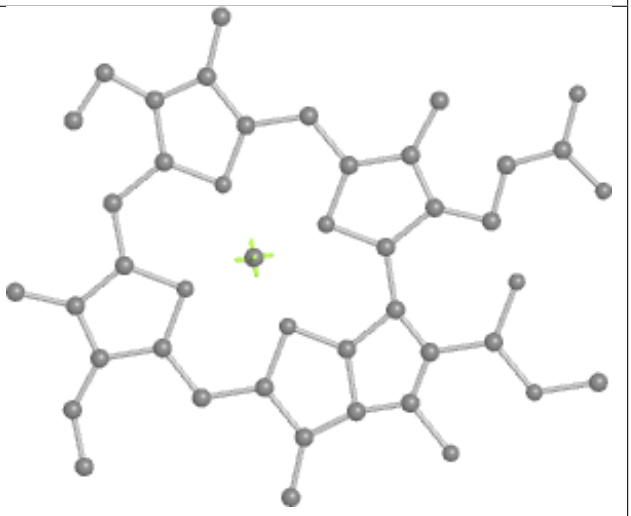
Bond lengths



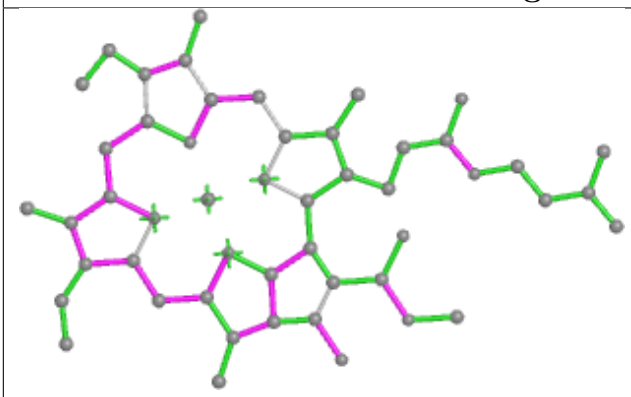
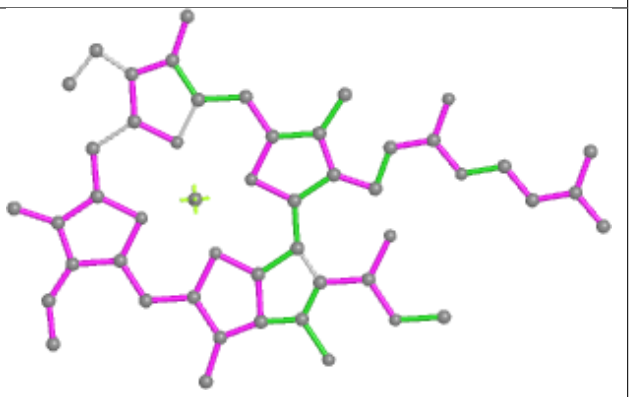
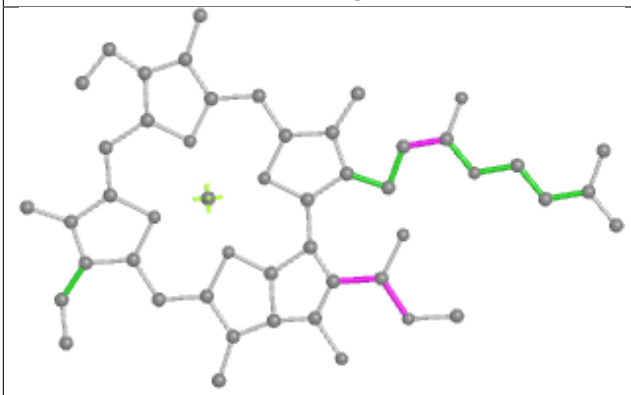
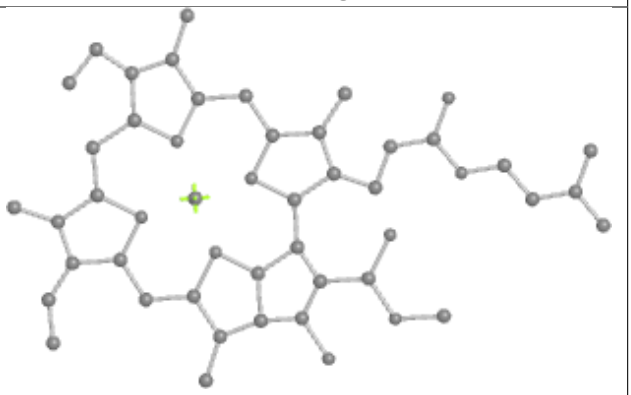
Bond angles

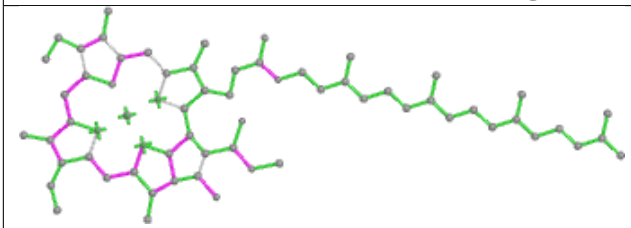
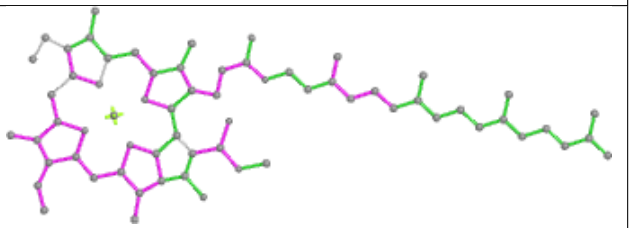
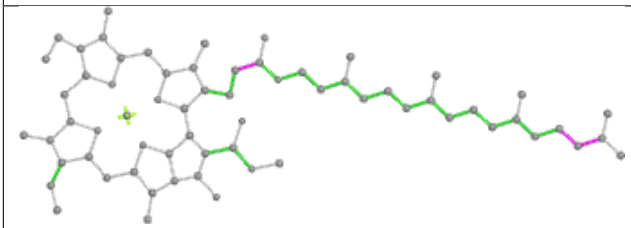
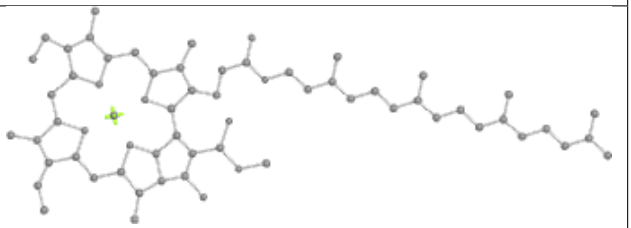


Torsions

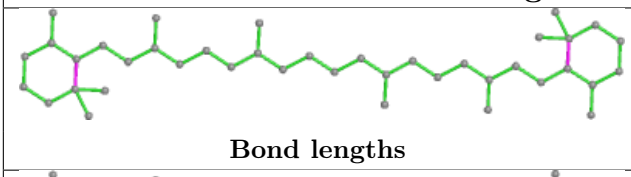


Rings

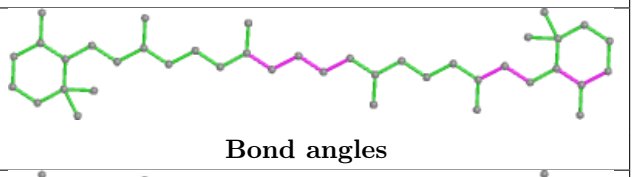
Ligand CLA A 839	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 808	
 Bond lengths	 Bond angles
 Torsions	 Rings

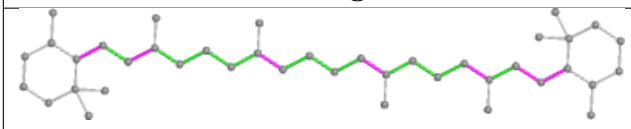
Ligand BCR L 201



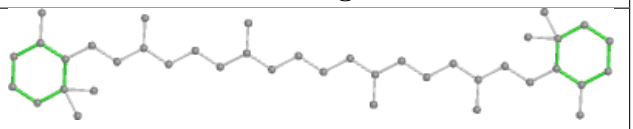
Bond lengths



Bond angles

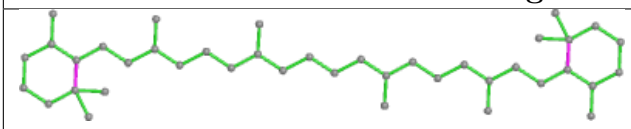


Torsions

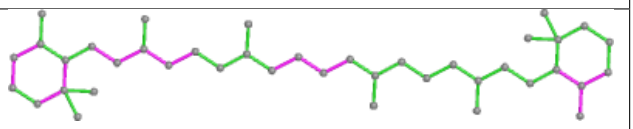


Rings

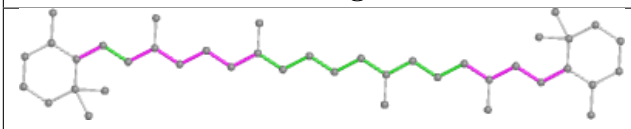
Ligand BCR J 103



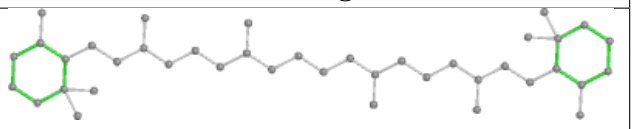
Bond lengths



Bond angles

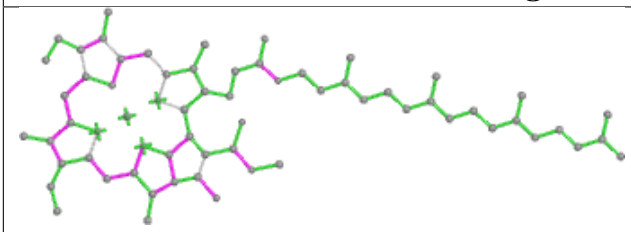


Torsions

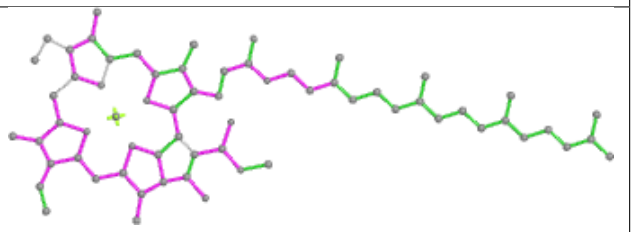


Rings

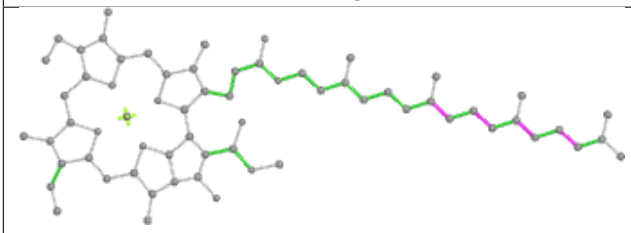
Ligand CLA B 820



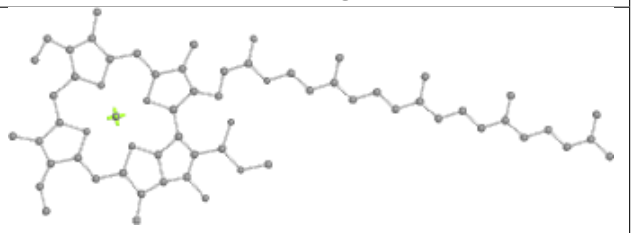
Bond lengths



Bond angles

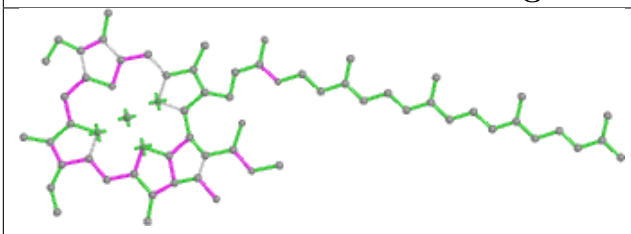


Torsions

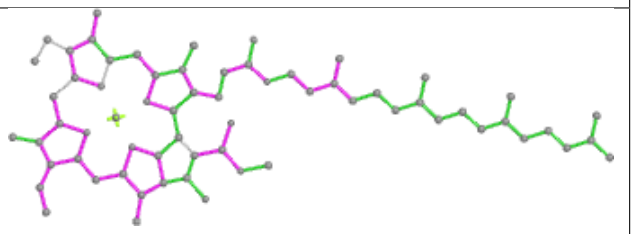


Rings

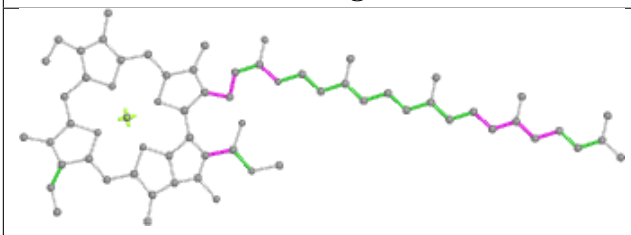
Ligand CLA A 811



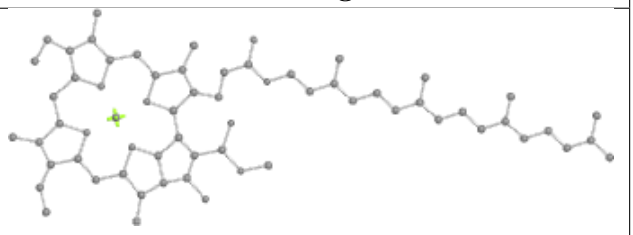
Bond lengths



Bond angles

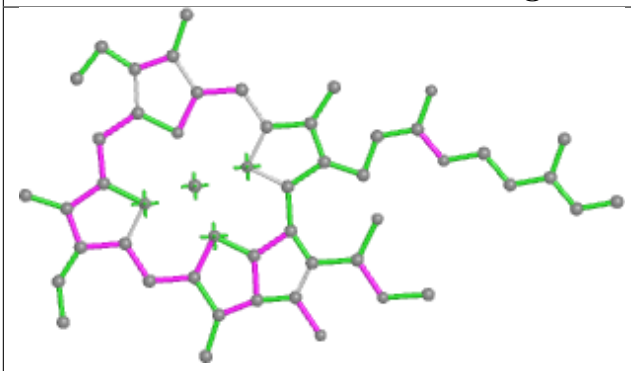


Torsions

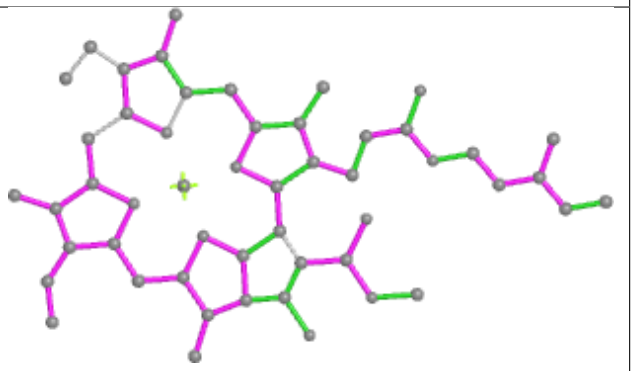


Rings

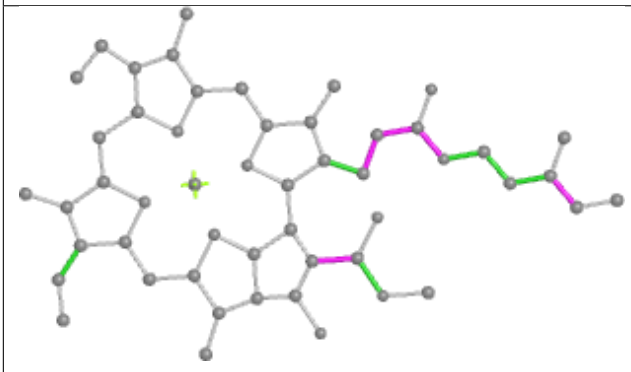
Ligand CLA A 823



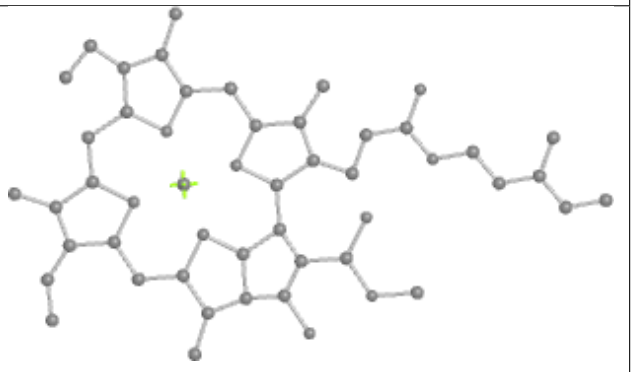
Bond lengths



Bond angles

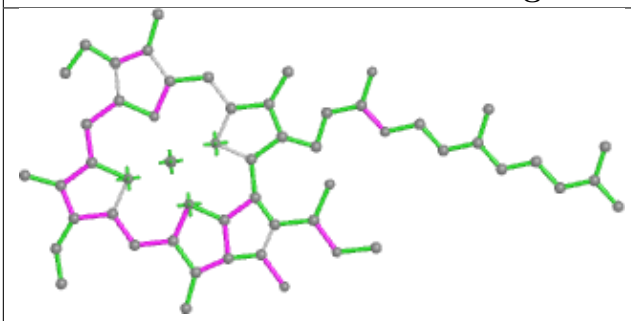


Torsions

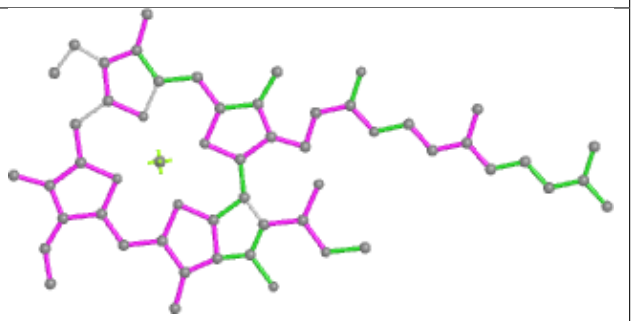


Rings

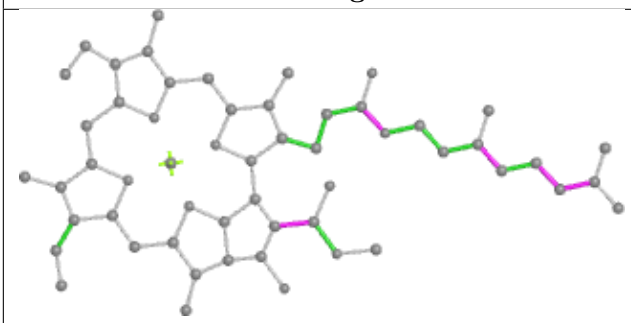
Ligand CLA A 826



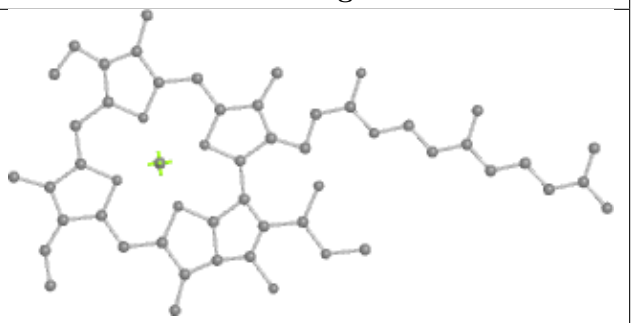
Bond lengths



Bond angles

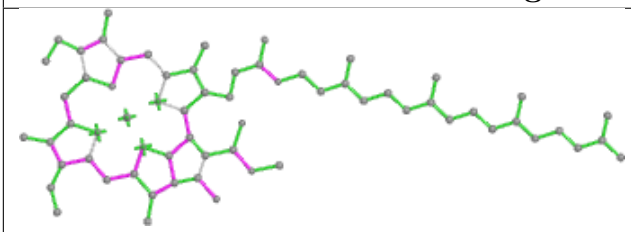


Torsions

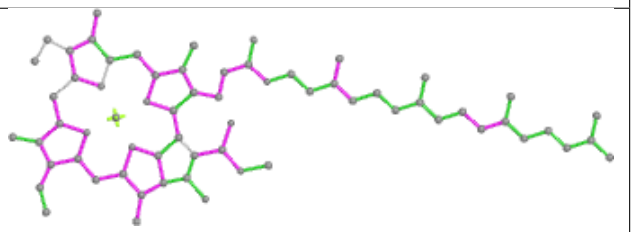


Rings

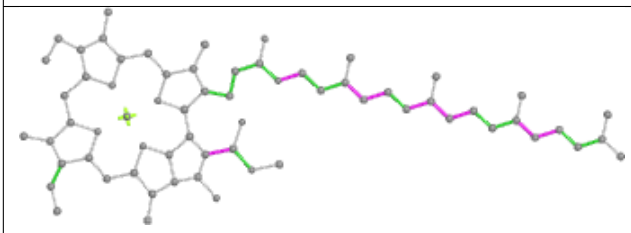
Ligand CLA B 810



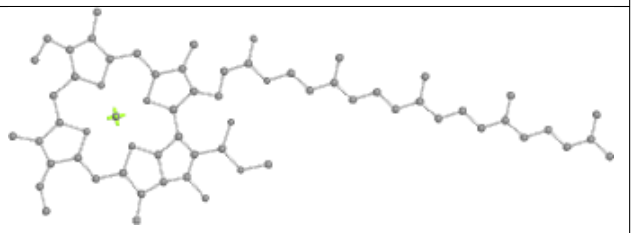
Bond lengths



Bond angles

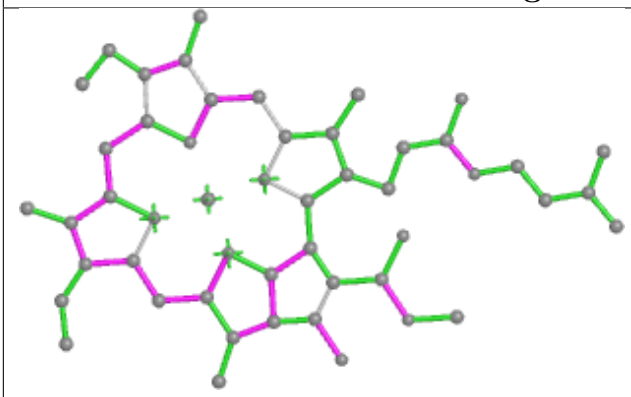


Torsions

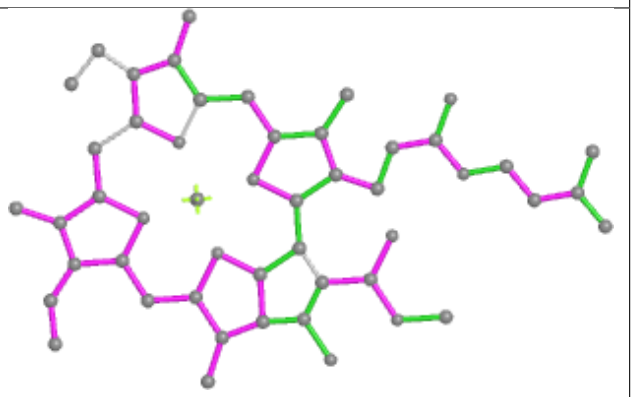


Rings

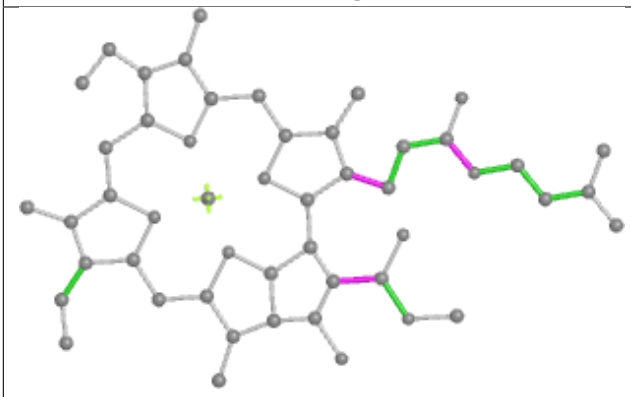
Ligand CLA A 831



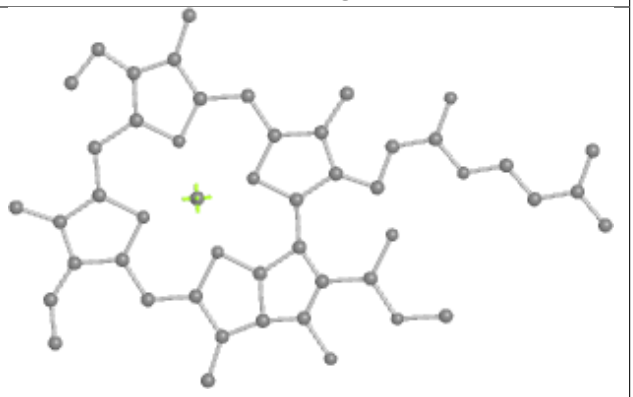
Bond lengths



Bond angles

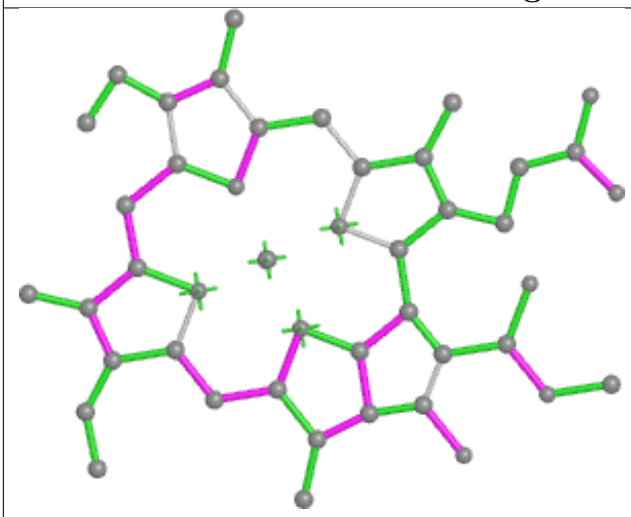


Torsions

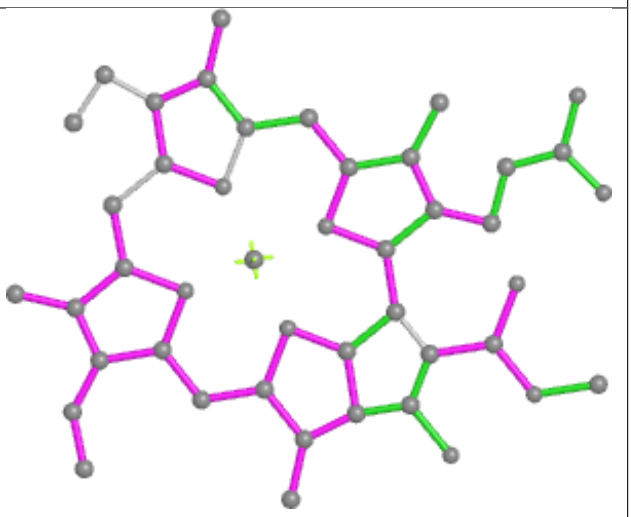


Rings

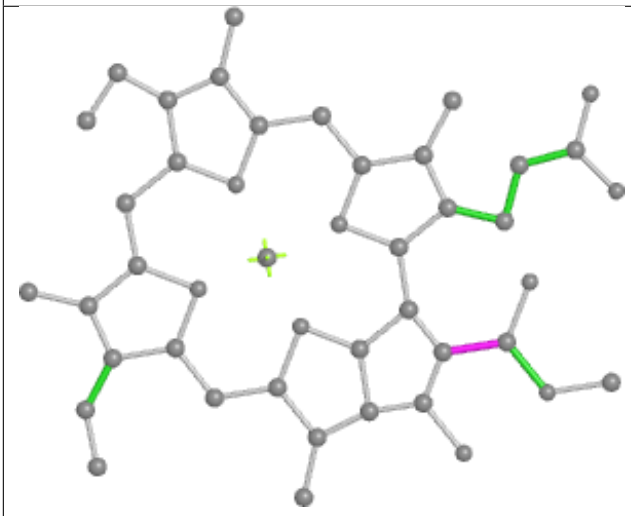
Ligand CLA A 804



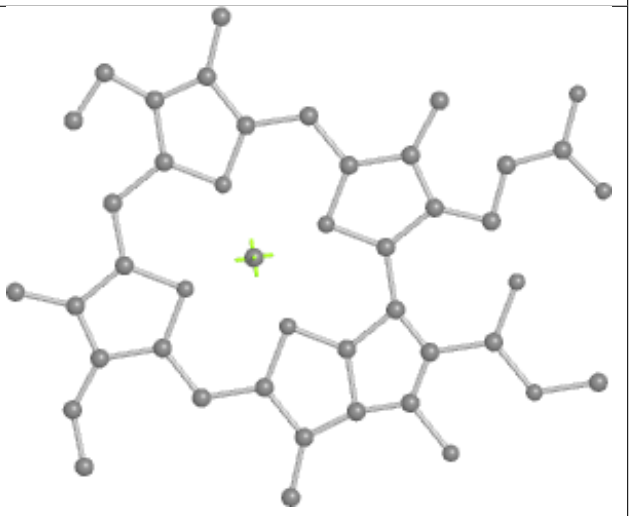
Bond lengths



Bond angles

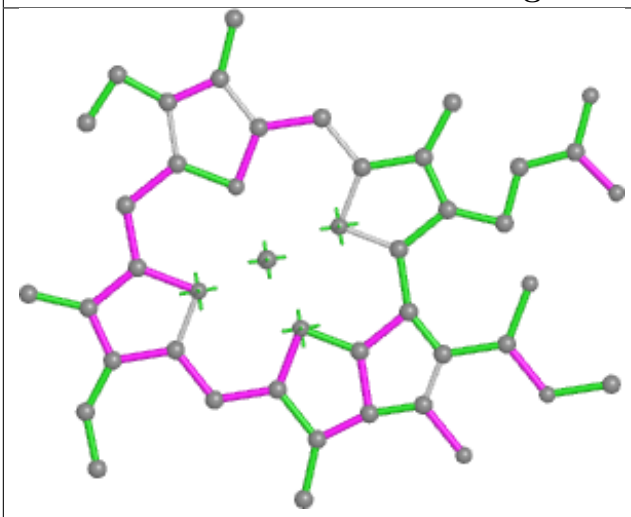


Torsions

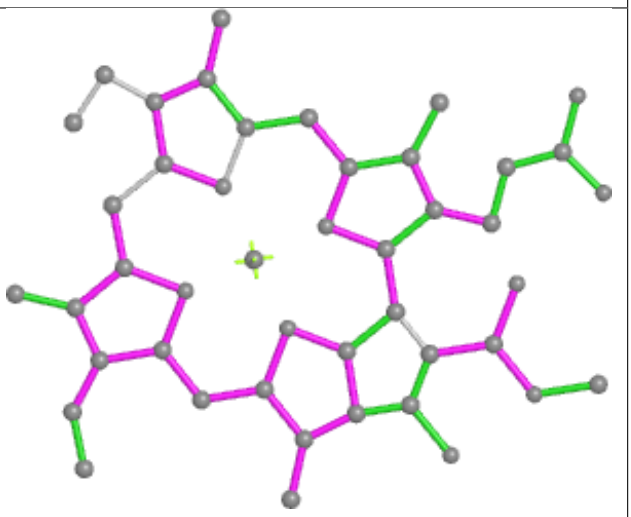


Rings

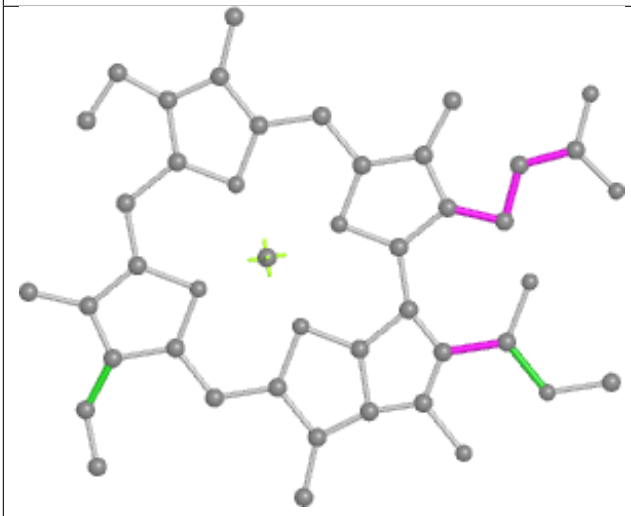
Ligand CLA A 813



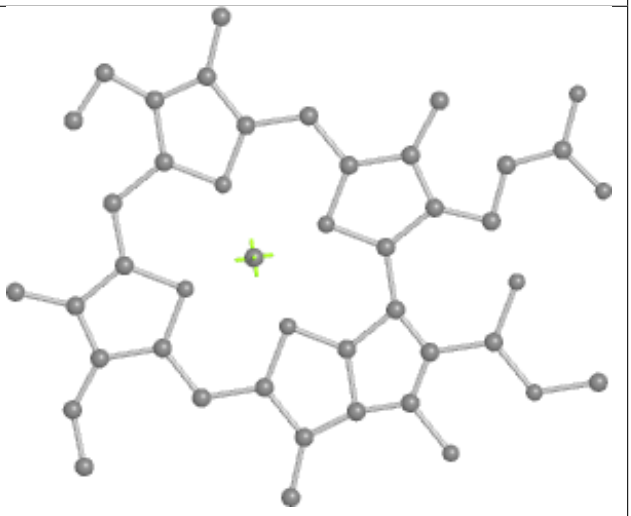
Bond lengths



Bond angles

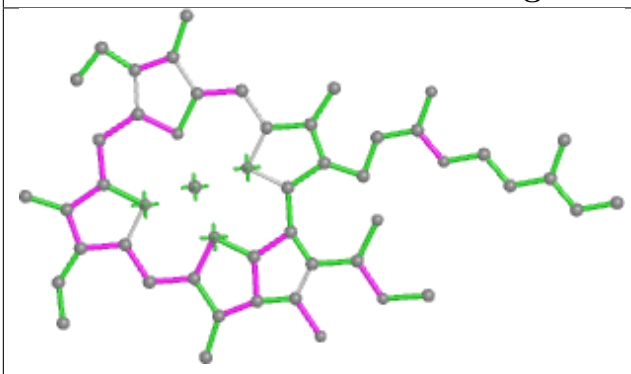


Torsions

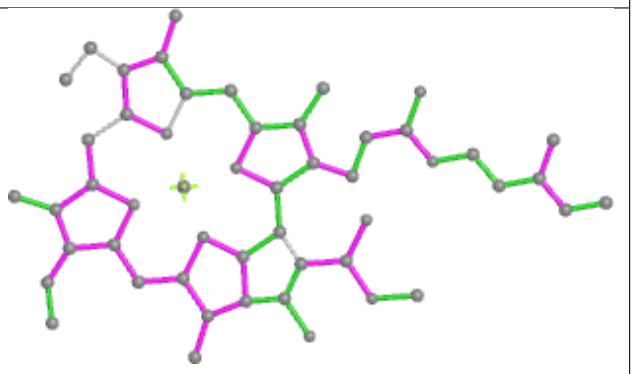


Rings

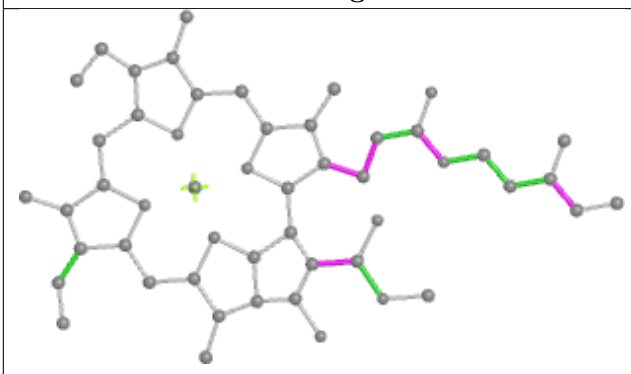
Ligand CLA A 837



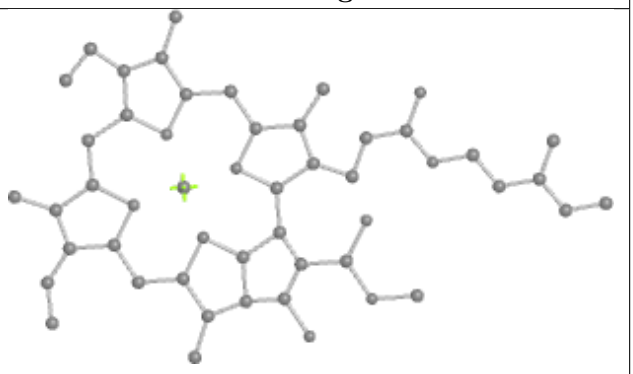
Bond lengths



Bond angles

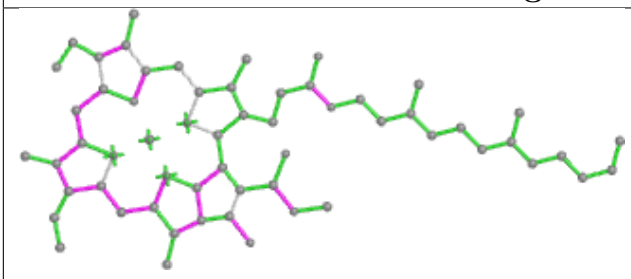


Torsions

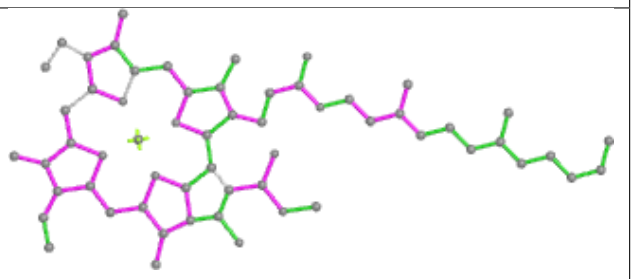


Rings

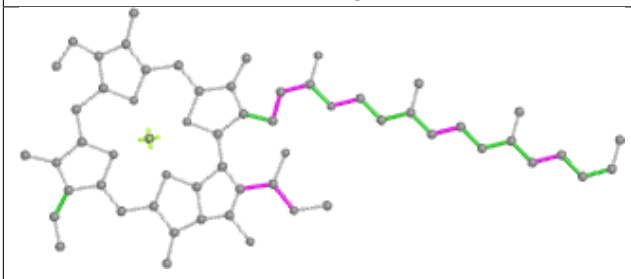
Ligand CLA B 817



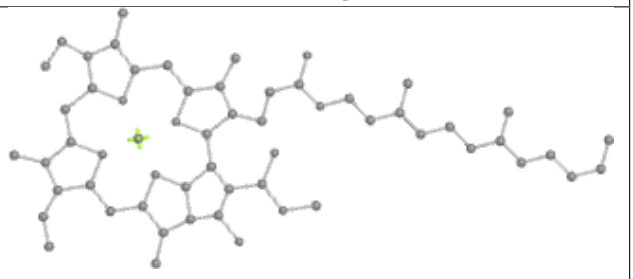
Bond lengths



Bond angles

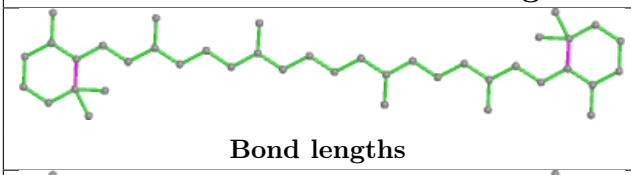


Torsions

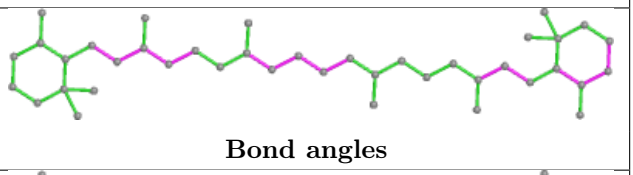


Rings

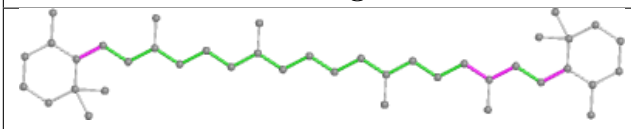
Ligand BCR A 849



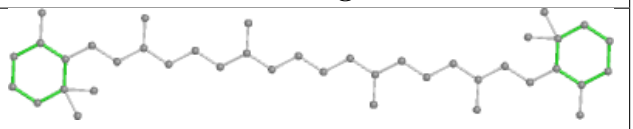
Bond lengths



Bond angles

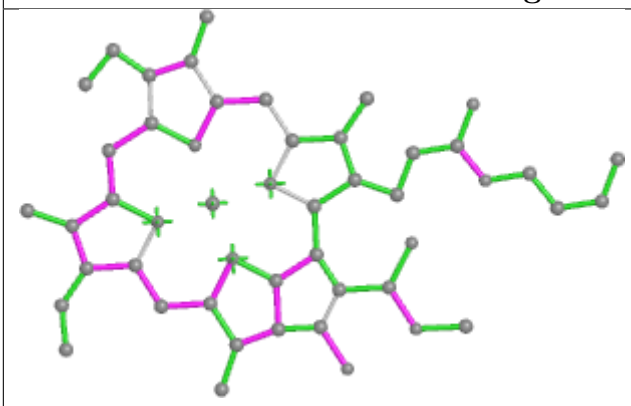


Torsions

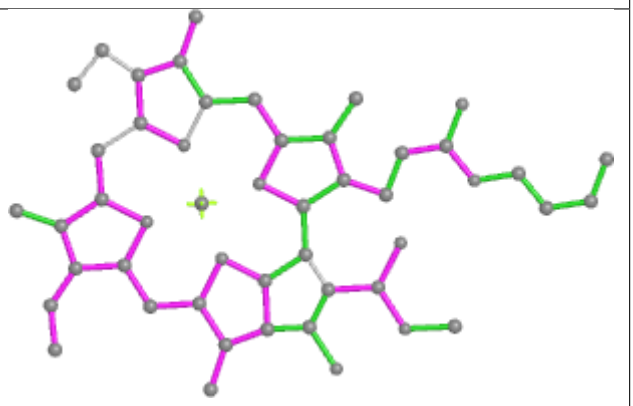


Rings

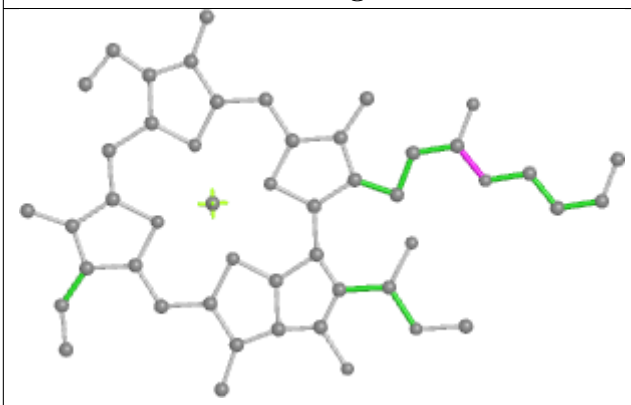
Ligand CLA A 816



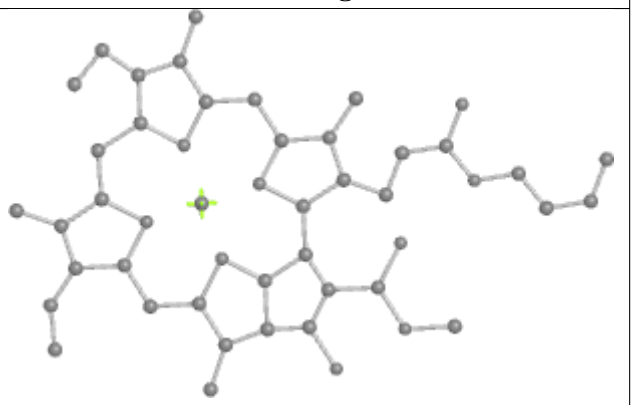
Bond lengths



Bond angles

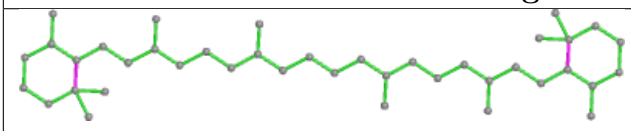


Torsions

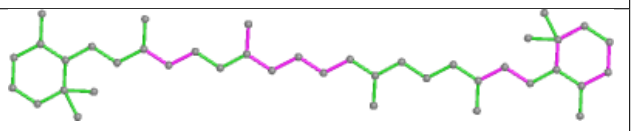


Rings

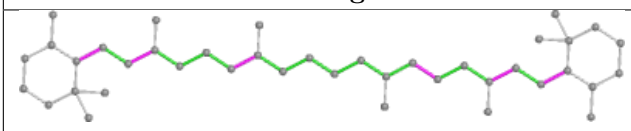
Ligand BCR A 850



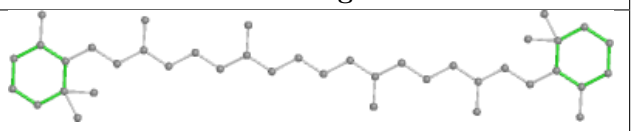
Bond lengths



Bond angles

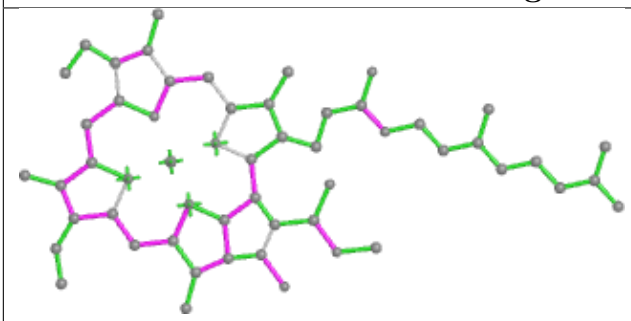


Torsions

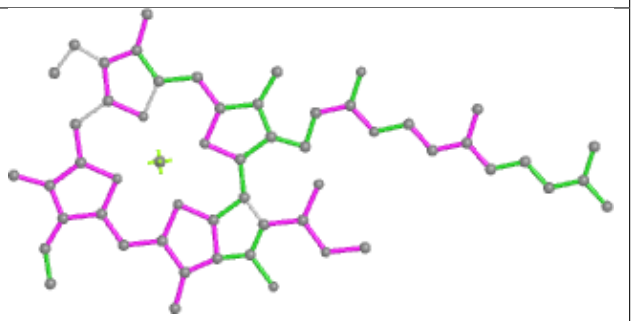


Rings

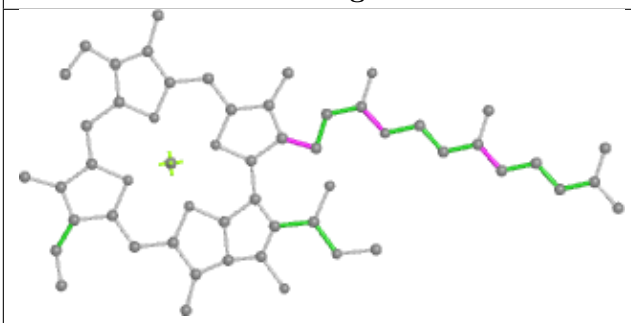
Ligand CLA B 816



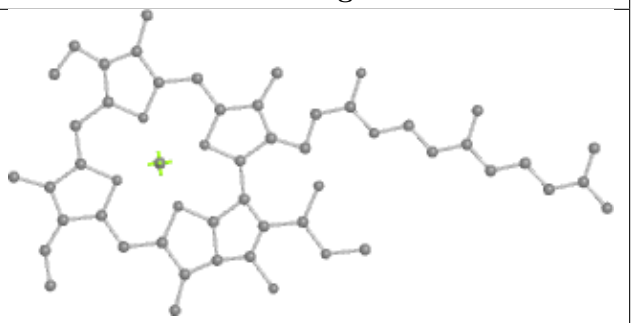
Bond lengths



Bond angles

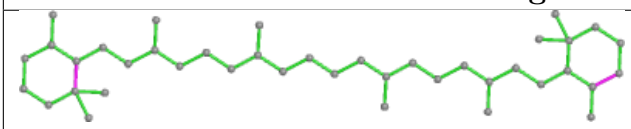


Torsions

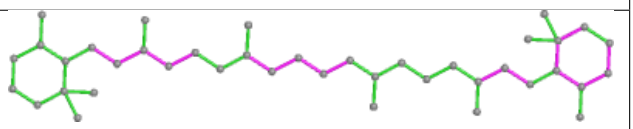


Rings

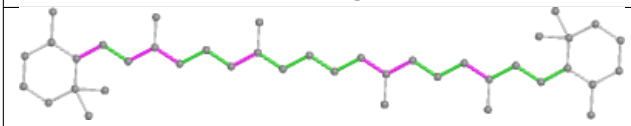
Ligand BCR I 101



Bond lengths



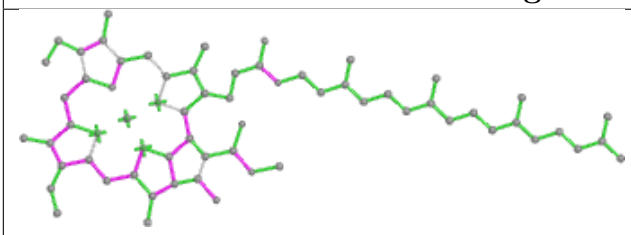
Bond angles



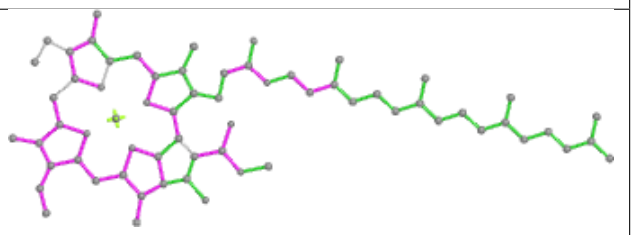
Torsions

Rings

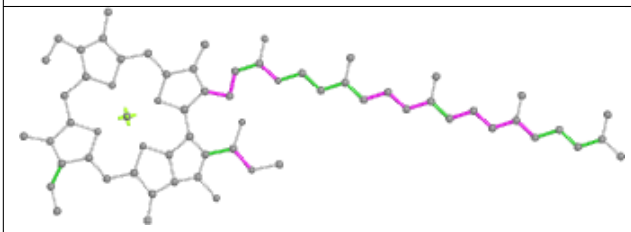
Ligand CLA A 808



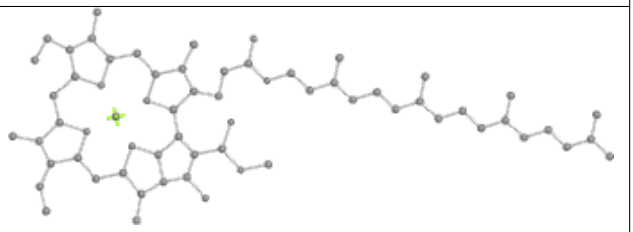
Bond lengths



Bond angles

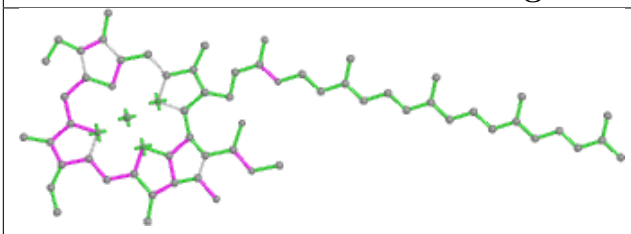


Torsions

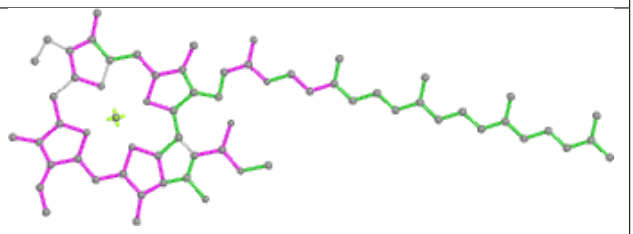


Rings

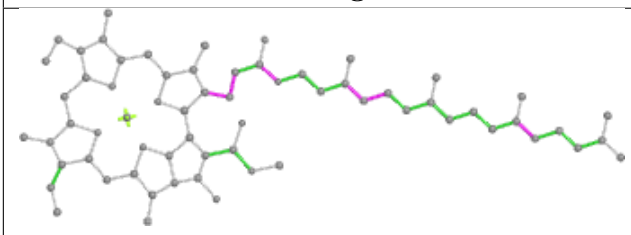
Ligand CLA B 822



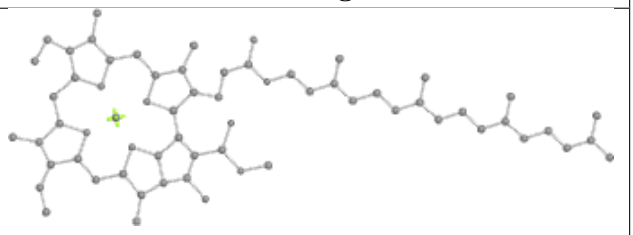
Bond lengths



Bond angles

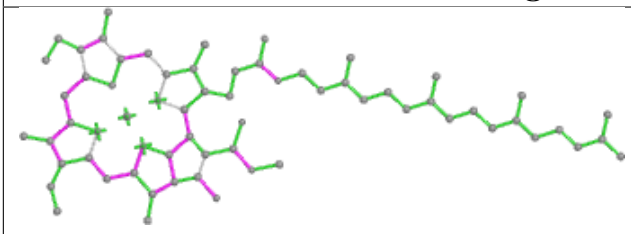


Torsions

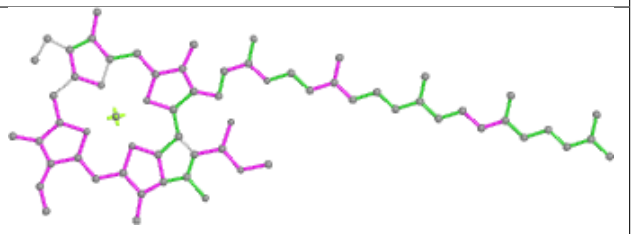


Rings

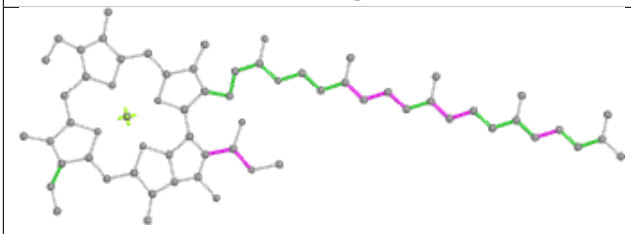
Ligand CLA B 803



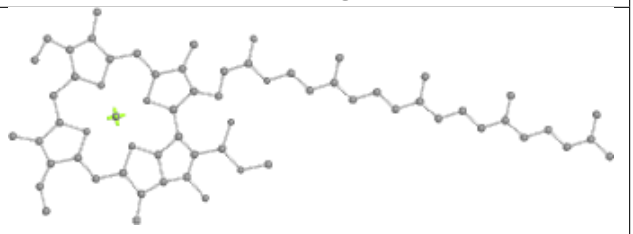
Bond lengths



Bond angles

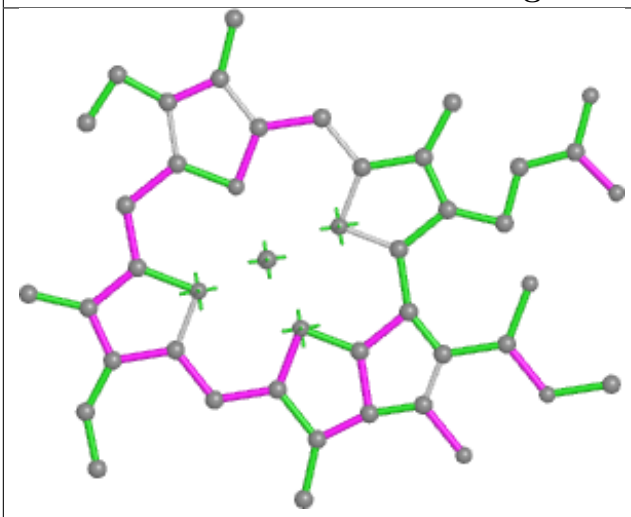


Torsions

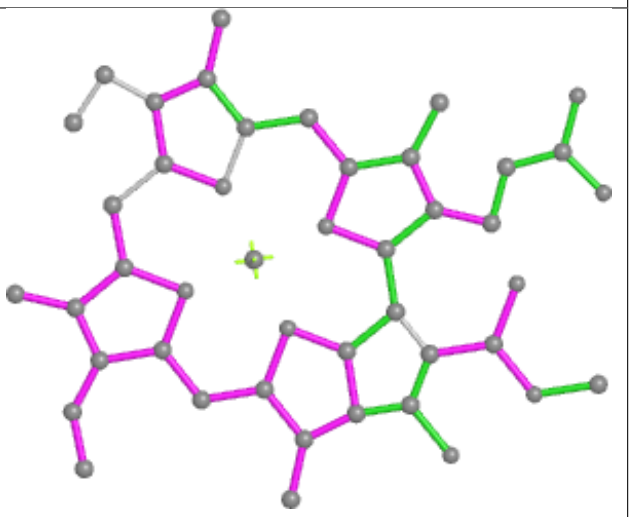


Rings

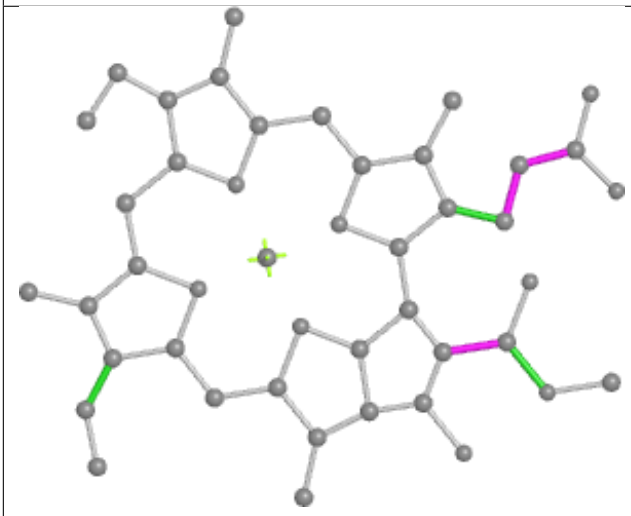
Ligand CLA A 836



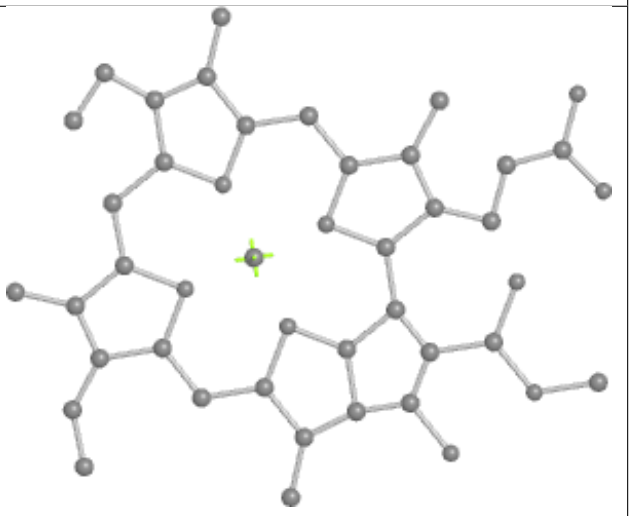
Bond lengths



Bond angles

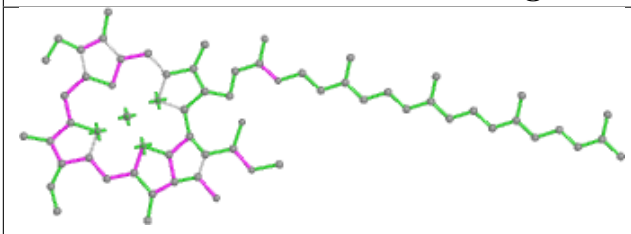


Torsions

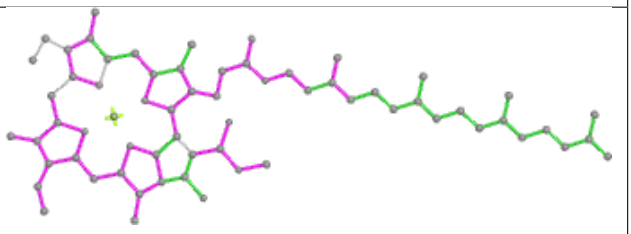


Rings

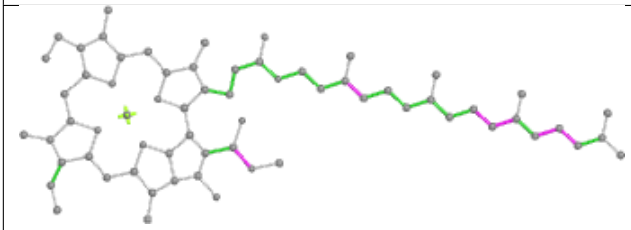
Ligand CLA B 811



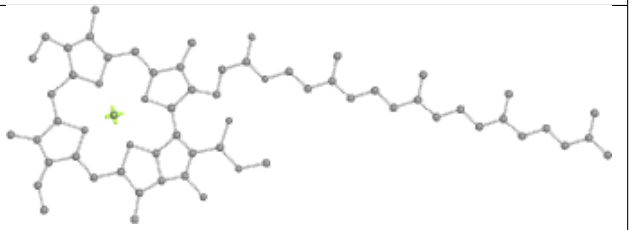
Bond lengths



Bond angles

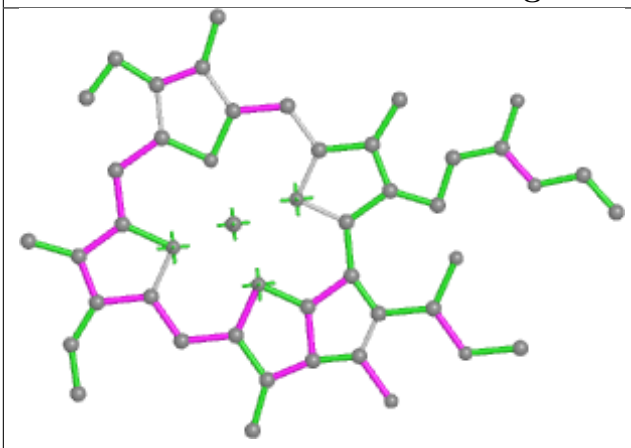


Torsions

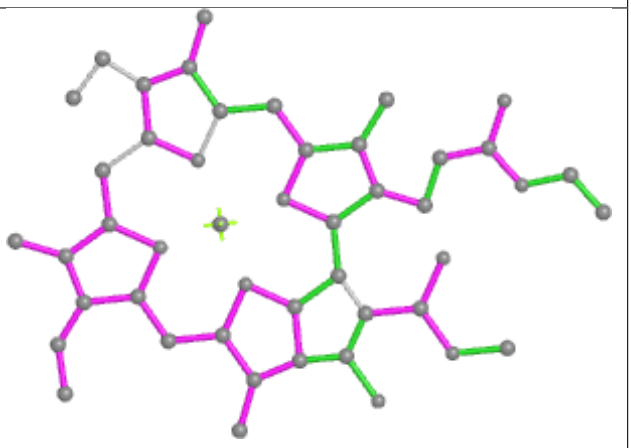


Rings

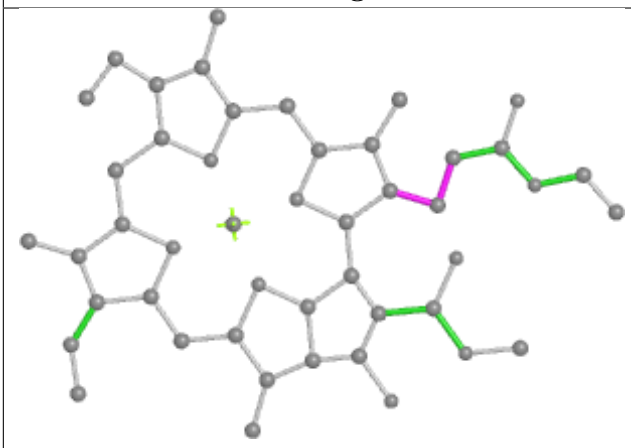
Ligand CLA A 824



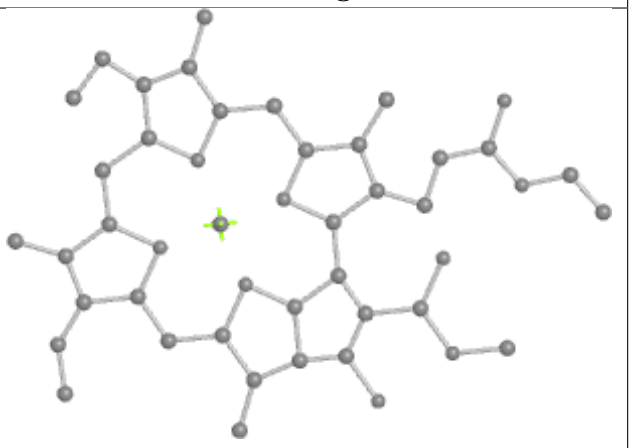
Bond lengths



Bond angles

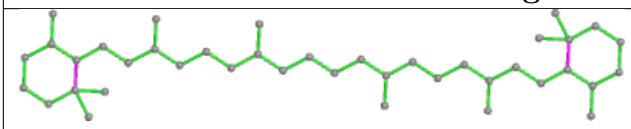


Torsions

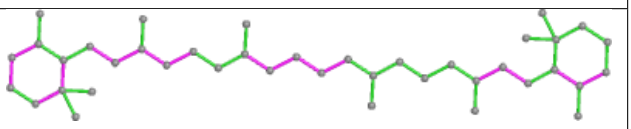


Rings

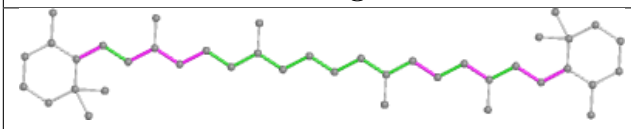
Ligand BCR B 835



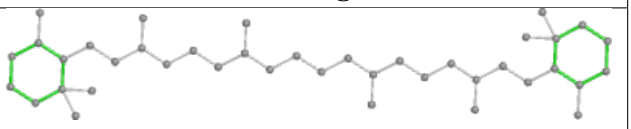
Bond lengths



Bond angles

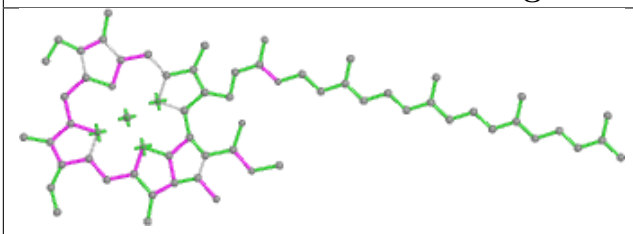


Torsions

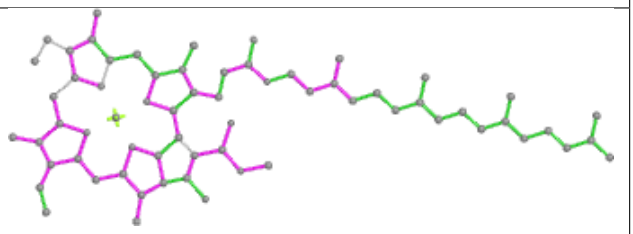


Rings

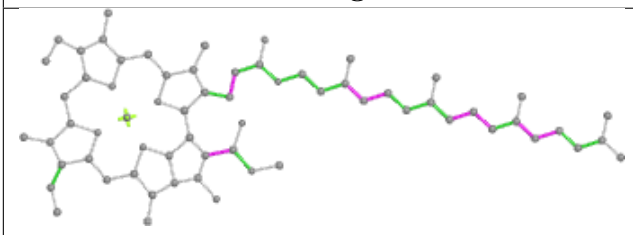
Ligand CLA A 825



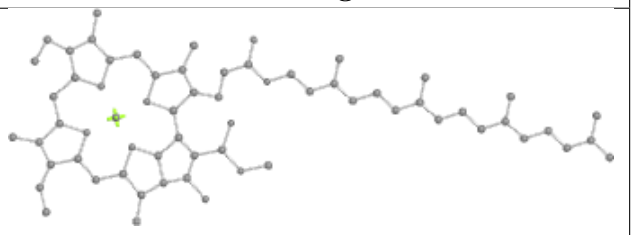
Bond lengths



Bond angles

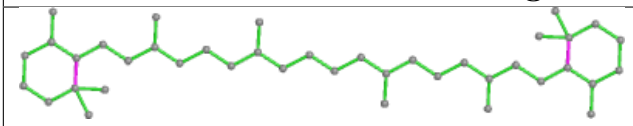


Torsions

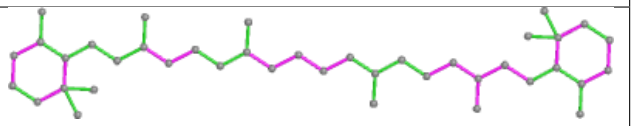


Rings

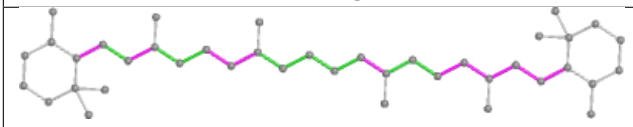
Ligand BCR L 206



Bond lengths



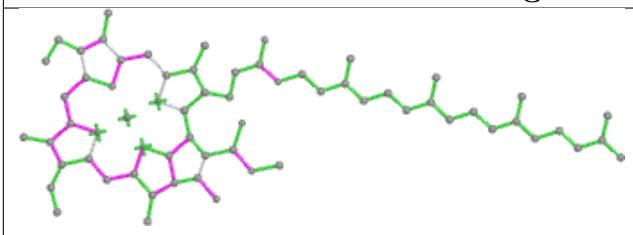
Bond angles



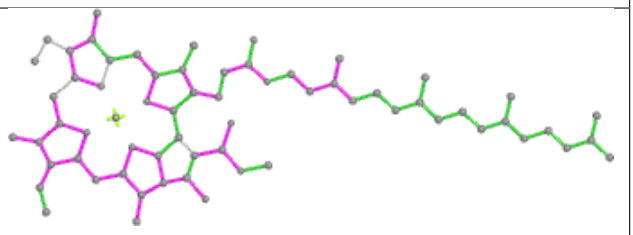
Torsions

Rings

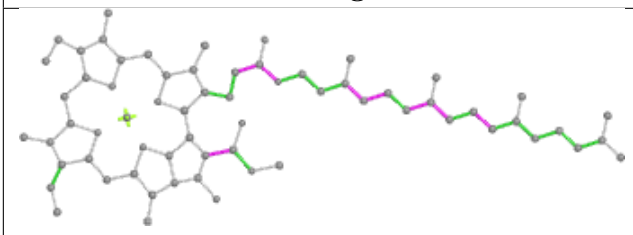
Ligand CLA A 827



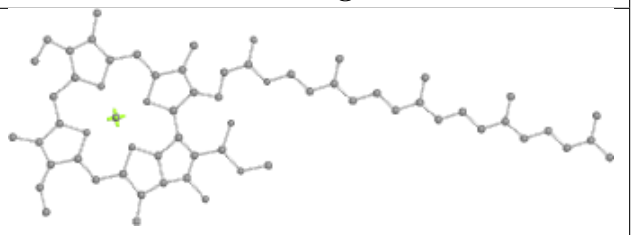
Bond lengths



Bond angles

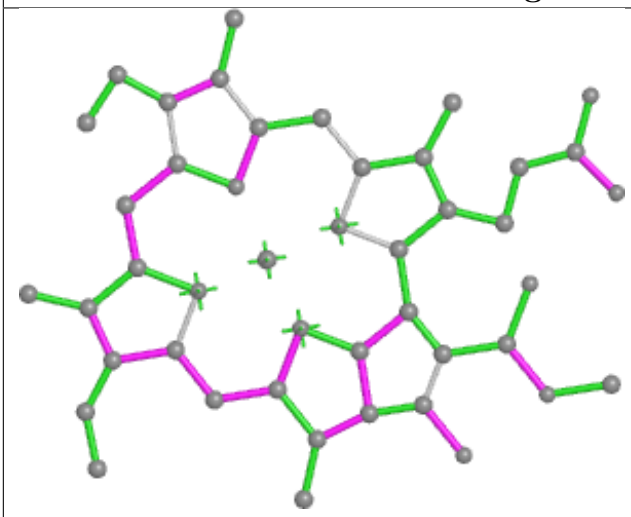


Torsions

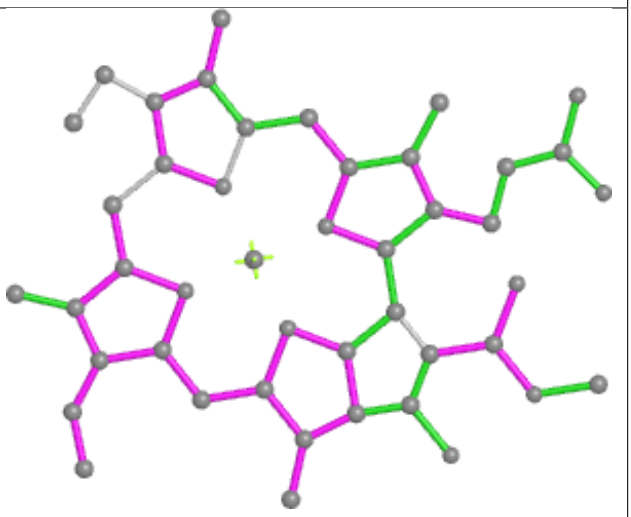


Rings

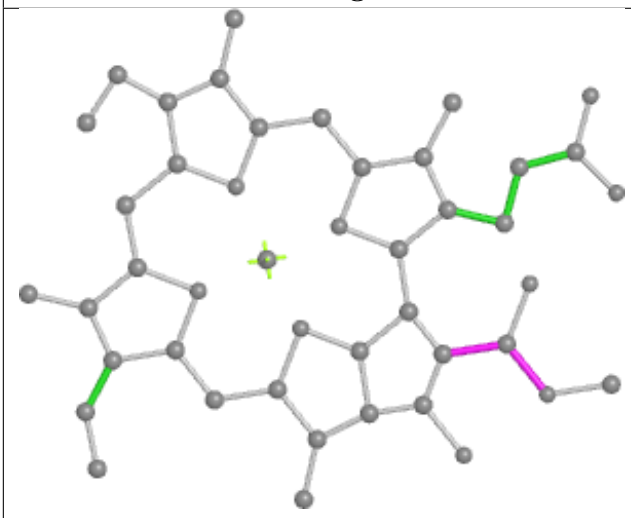
Ligand CLA B 815



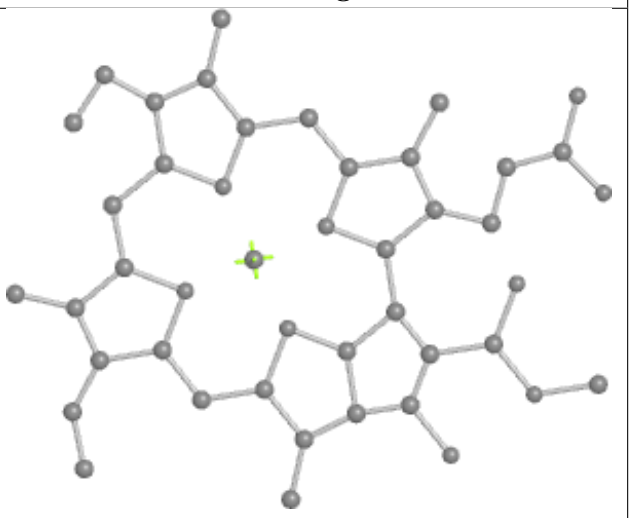
Bond lengths



Bond angles

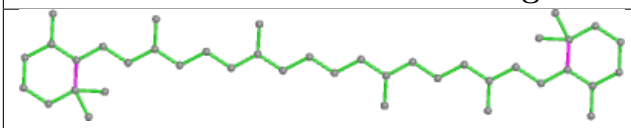


Torsions

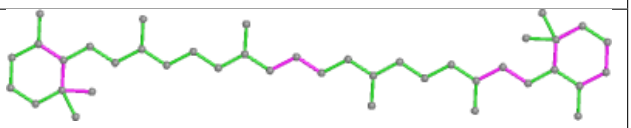


Rings

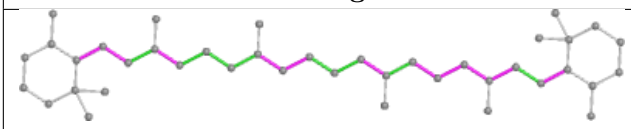
Ligand BCR A 851



Bond lengths



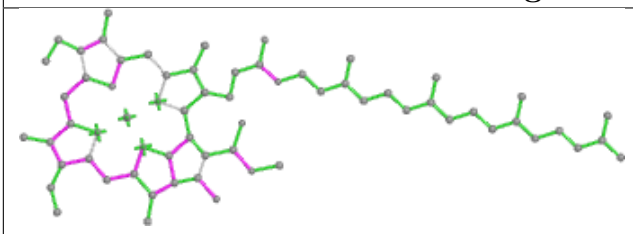
Bond angles



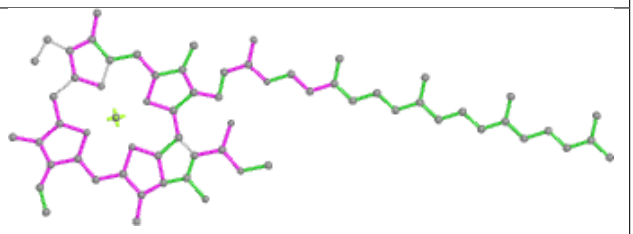
Torsions

Rings

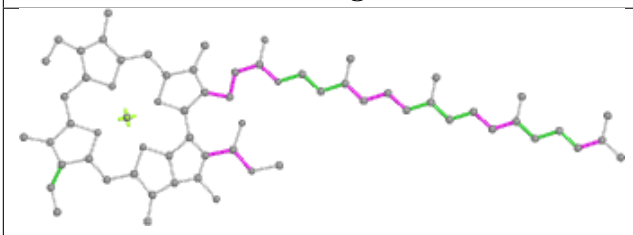
Ligand CLA B 821



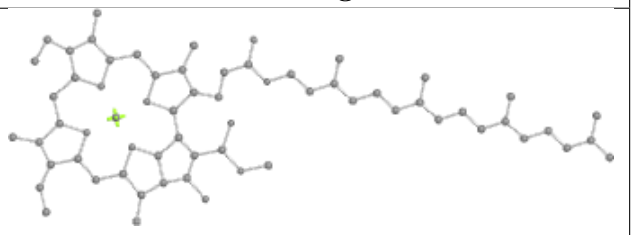
Bond lengths



Bond angles

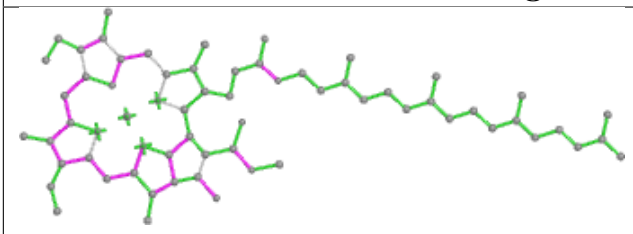


Torsions

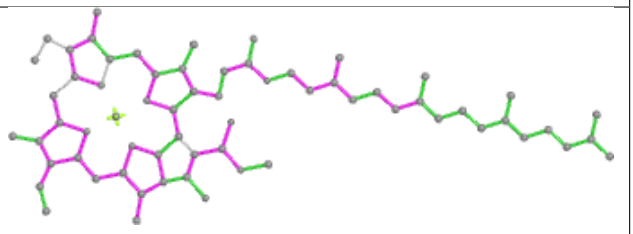


Rings

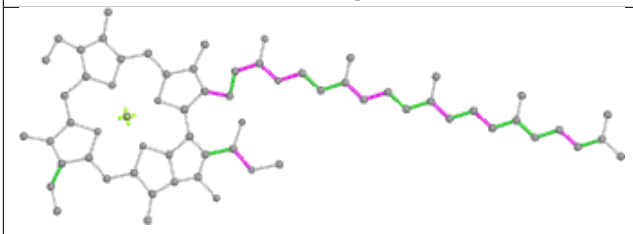
Ligand CLA B 825



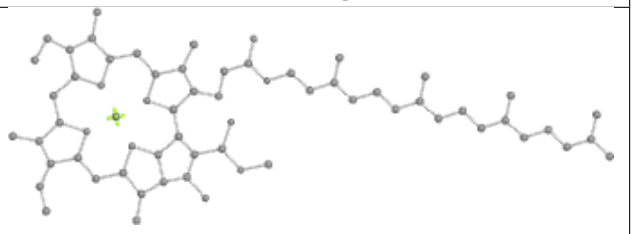
Bond lengths



Bond angles

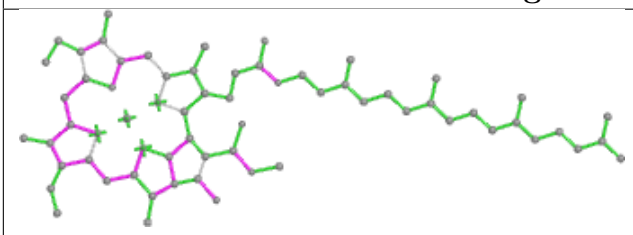


Torsions

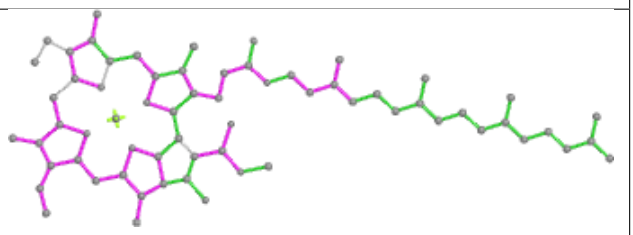


Rings

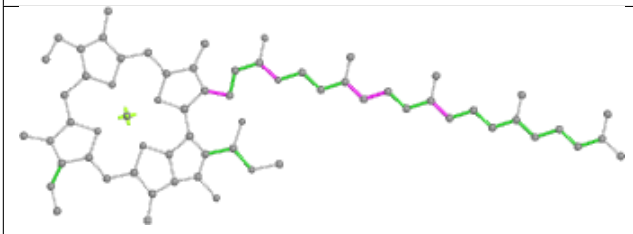
Ligand CLA A 832



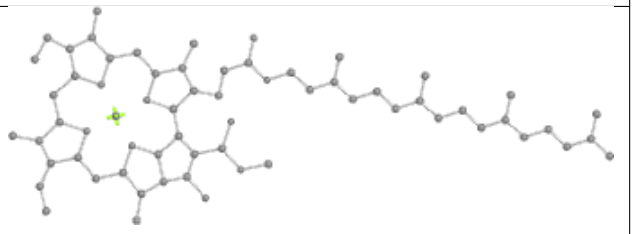
Bond lengths



Bond angles

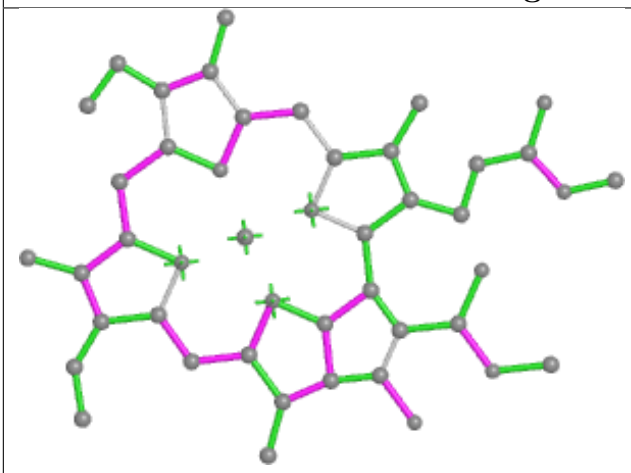


Torsions

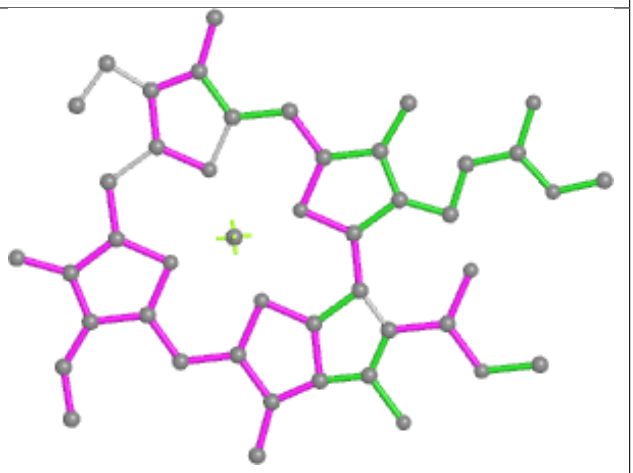


Rings

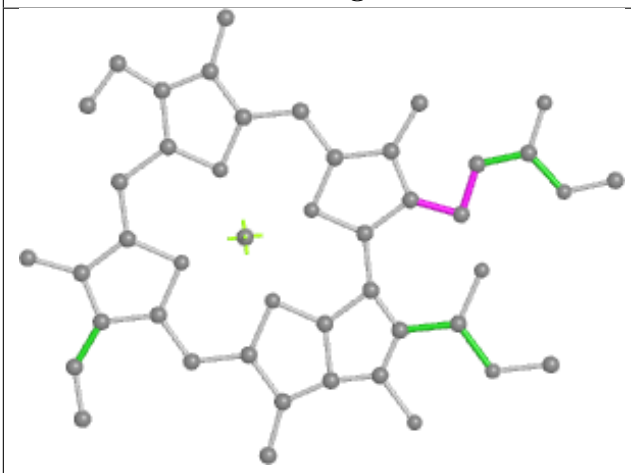
Ligand CLA A 822



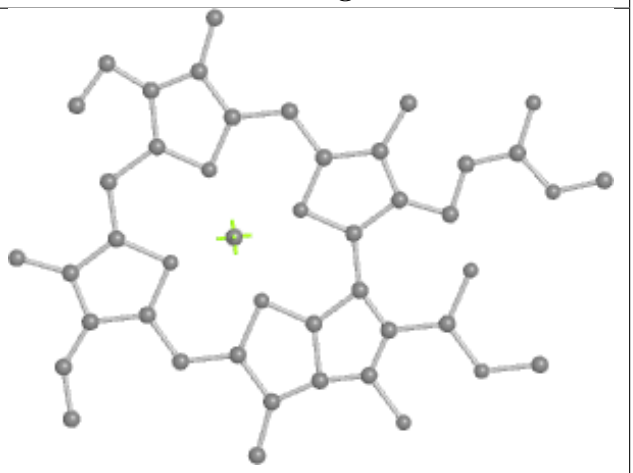
Bond lengths



Bond angles

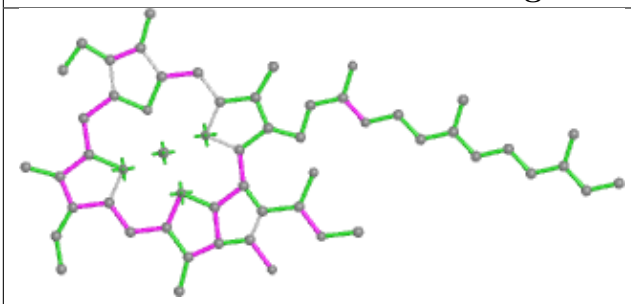


Torsions

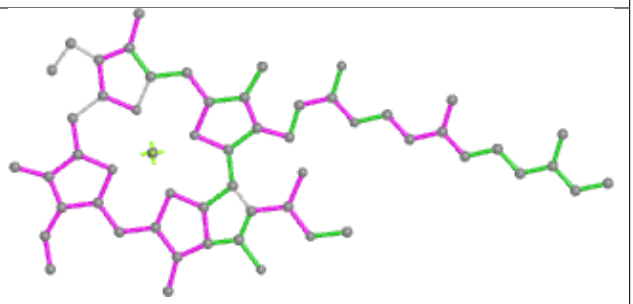


Rings

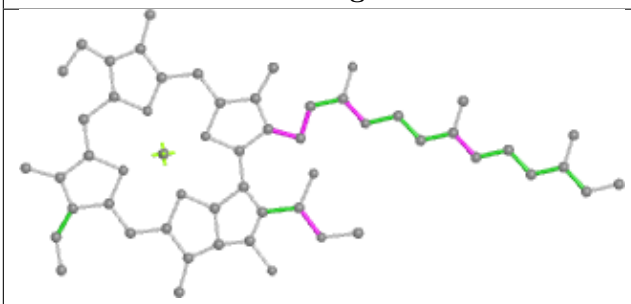
Ligand CLA B 814



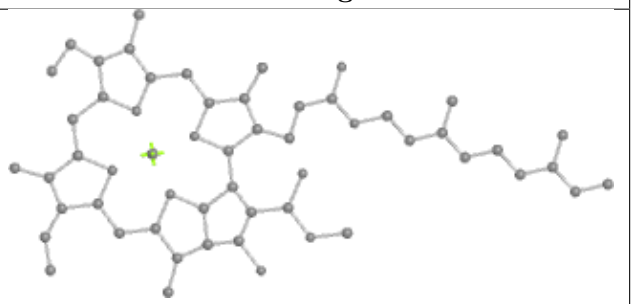
Bond lengths



Bond angles

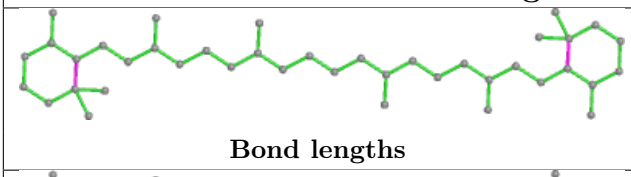


Torsions

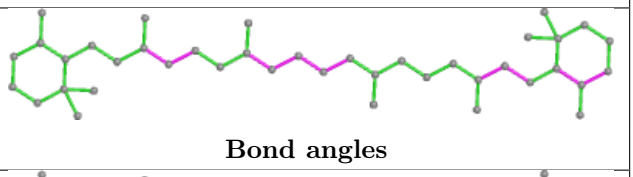


Rings

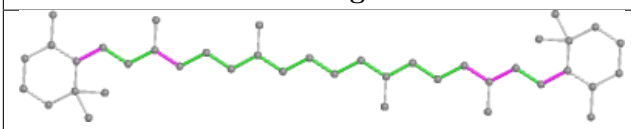
Ligand BCR B 834



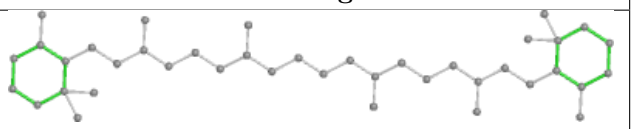
Bond lengths



Bond angles

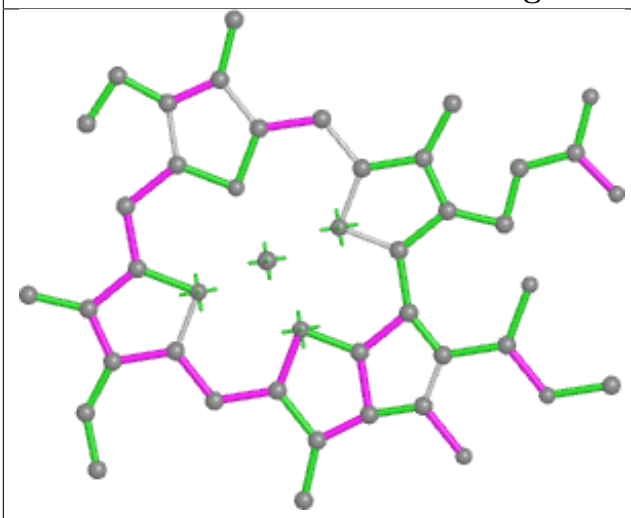


Torsions

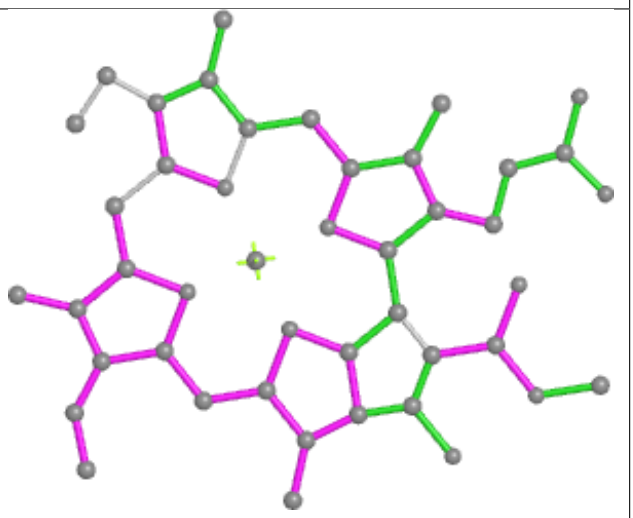


Rings

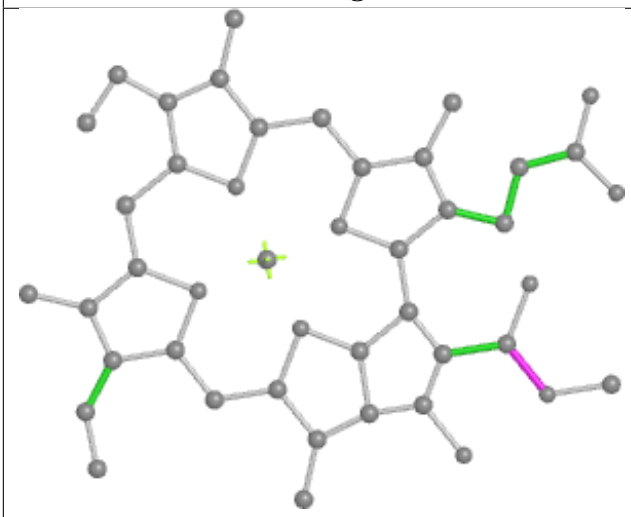
Ligand CLA A 810



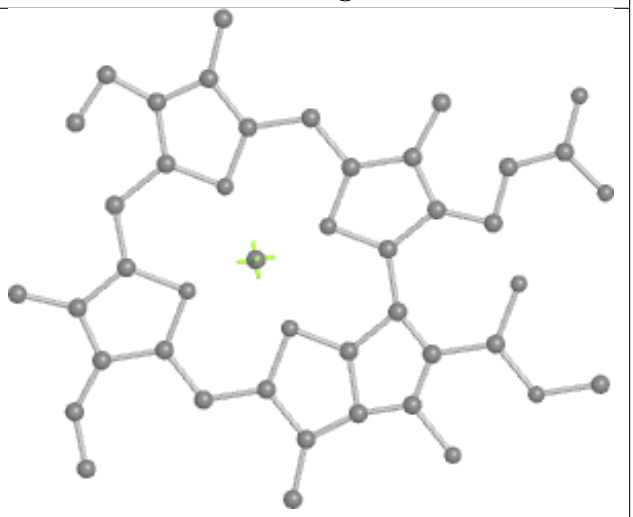
Bond lengths



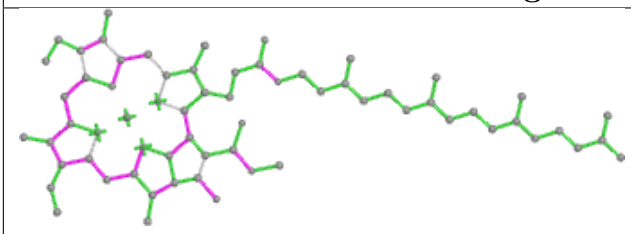
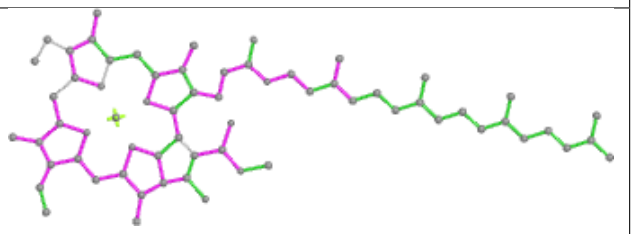
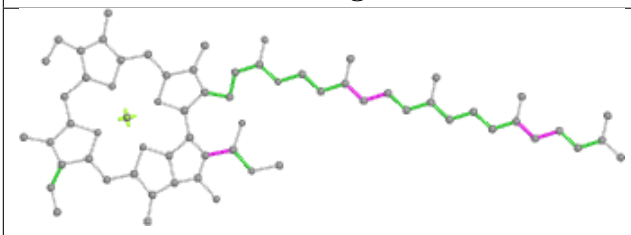
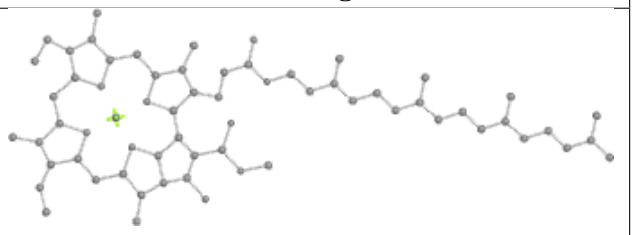
Bond angles

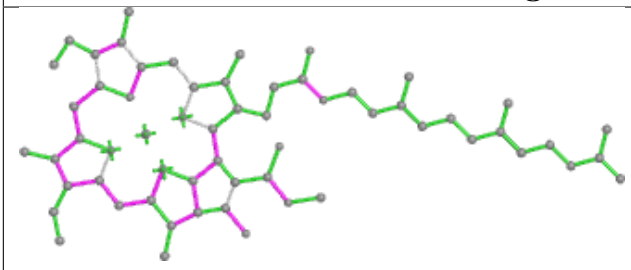
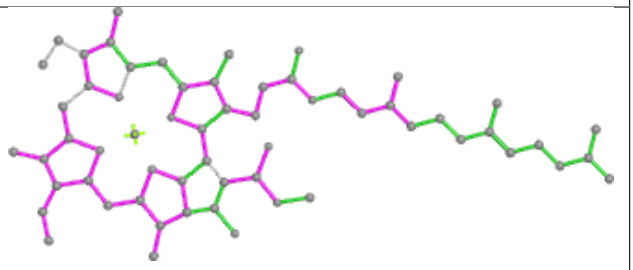
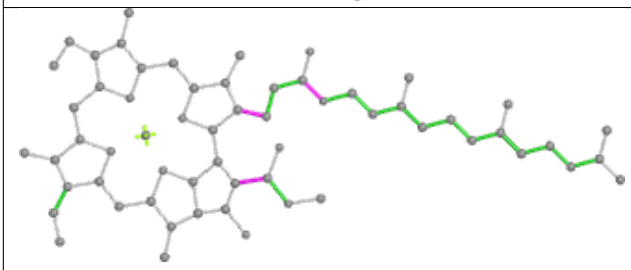
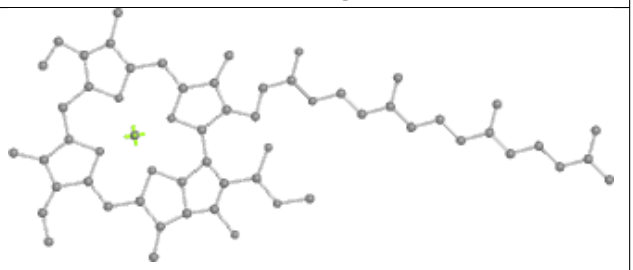


Torsions

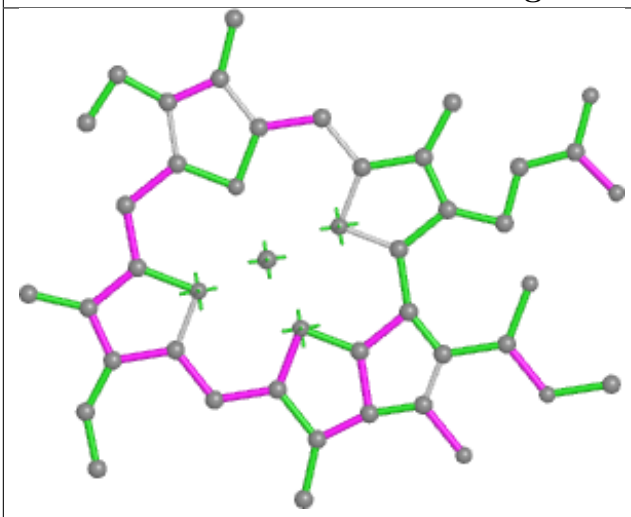


Rings

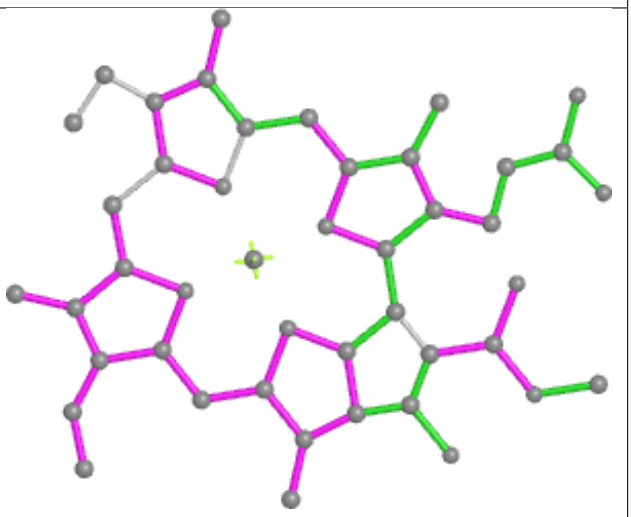
Ligand CLA A 854	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 818	
 Bond lengths	 Bond angles
 Torsions	 Rings

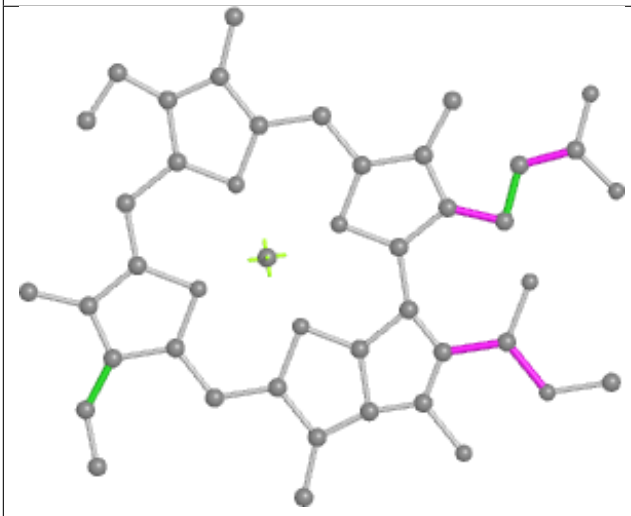
Ligand CLA B 827



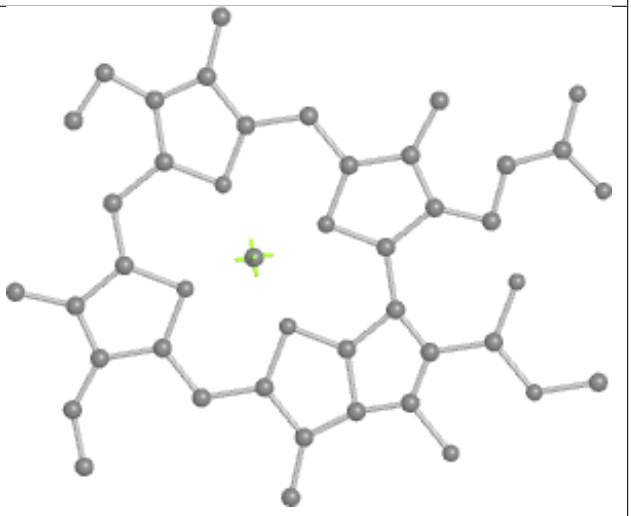
Bond lengths



Bond angles

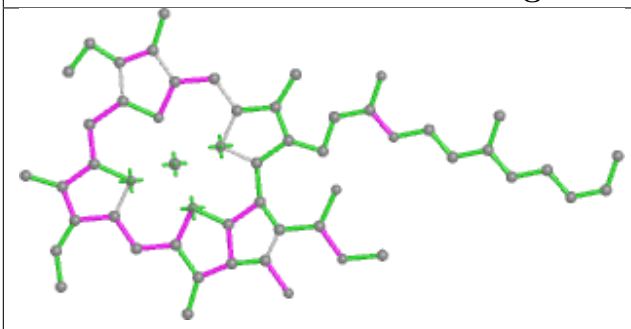


Torsions

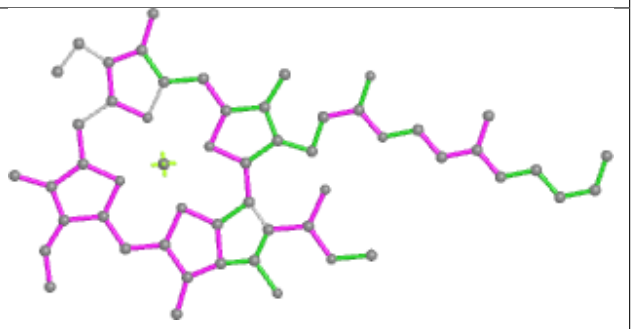


Rings

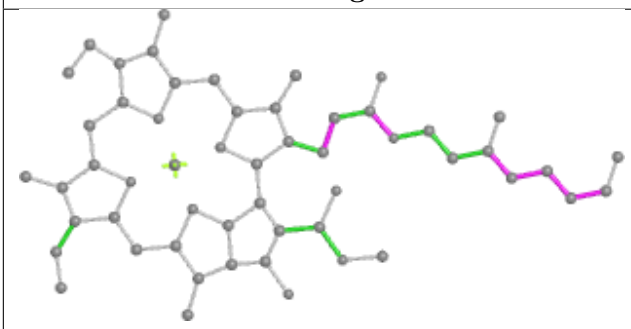
Ligand CLA A 812



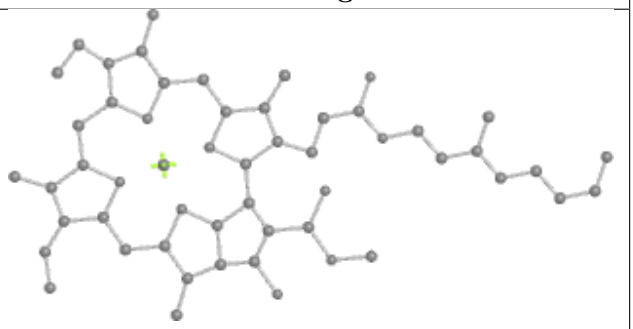
Bond lengths



Bond angles

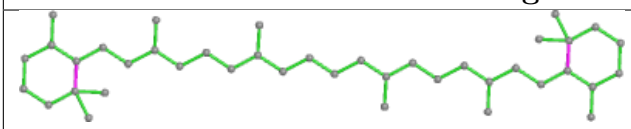


Torsions

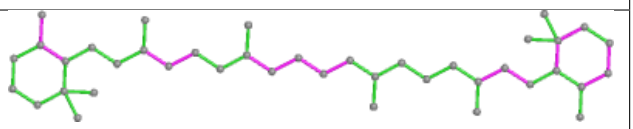


Rings

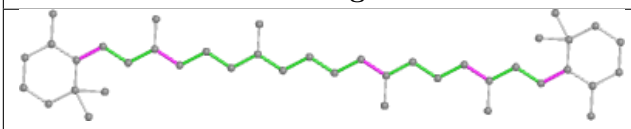
Ligand BCR A 847



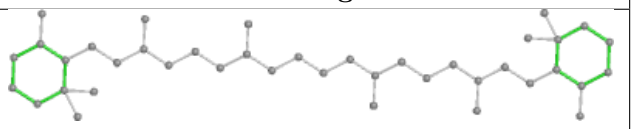
Bond lengths



Bond angles

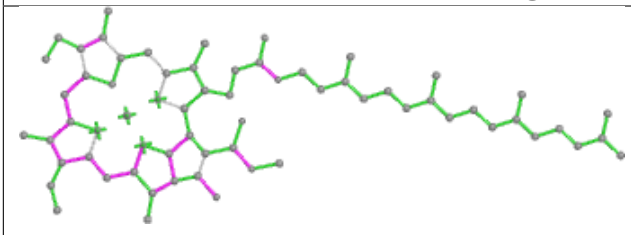


Torsions

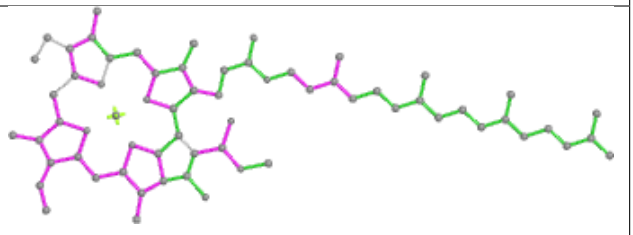


Rings

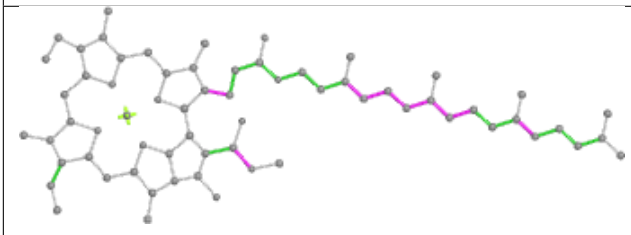
Ligand CLA A 821



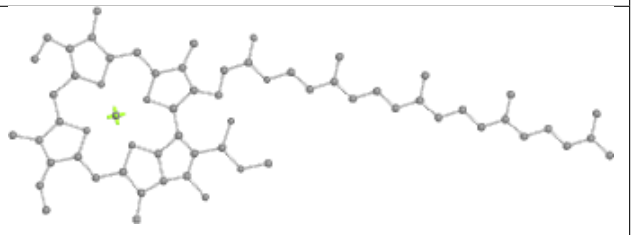
Bond lengths



Bond angles

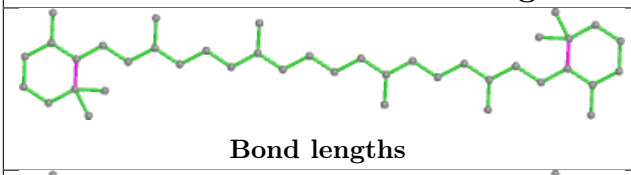


Torsions

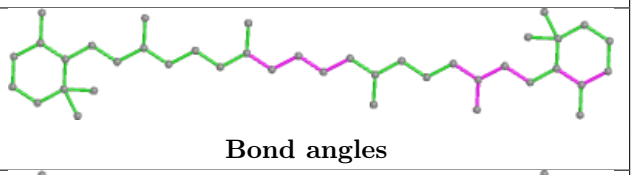


Rings

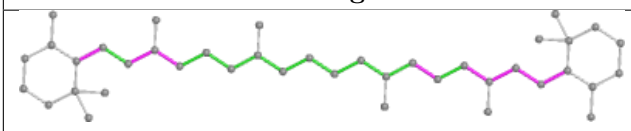
Ligand BCR M 101



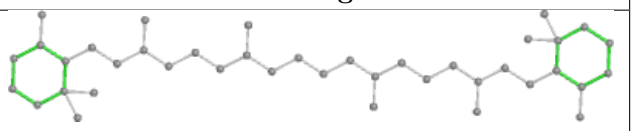
Bond lengths



Bond angles

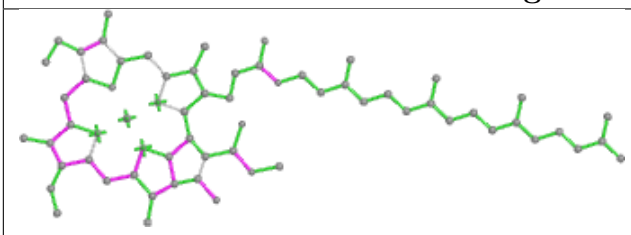


Torsions

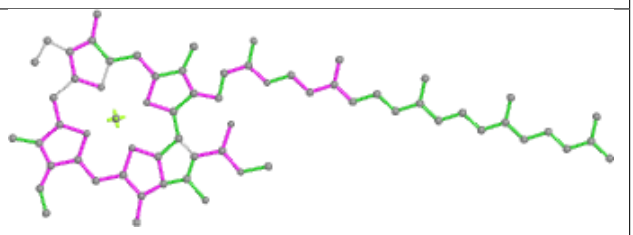


Rings

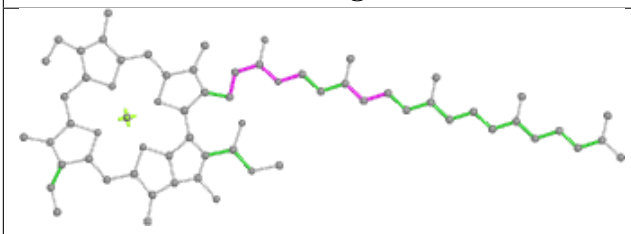
Ligand CLA A 817



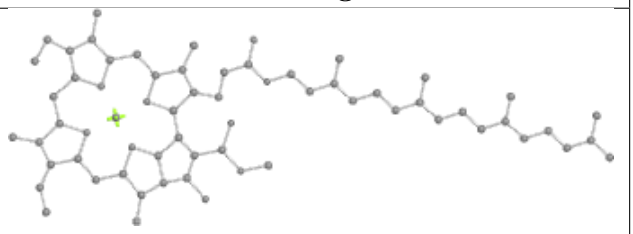
Bond lengths



Bond angles

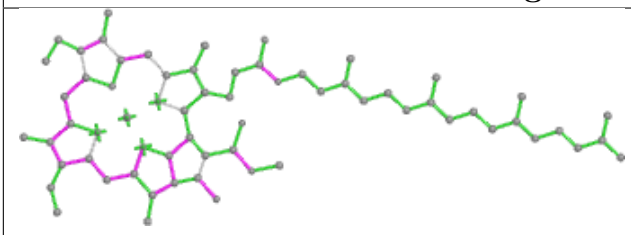


Torsions

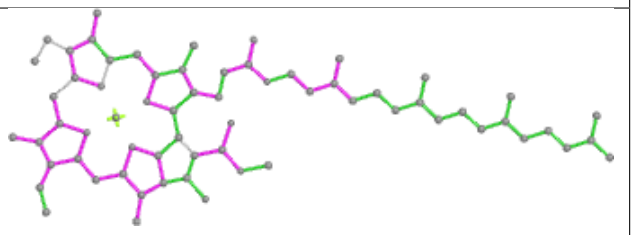


Rings

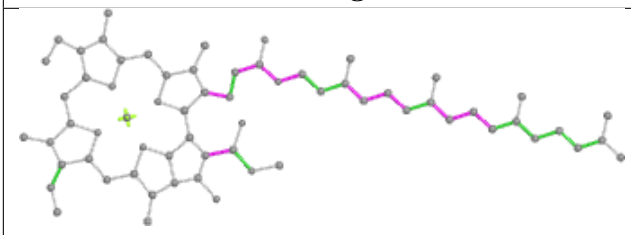
Ligand CLA B 813



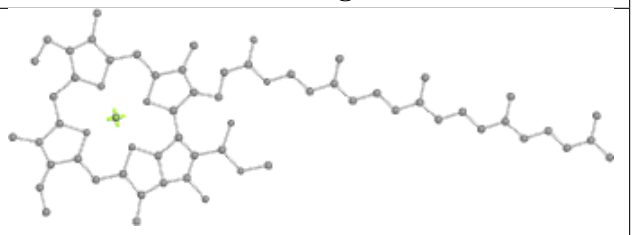
Bond lengths



Bond angles

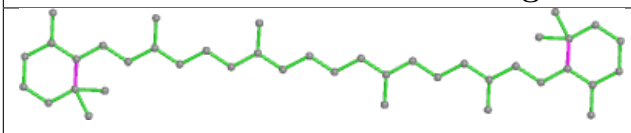


Torsions

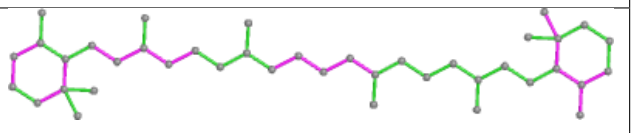


Rings

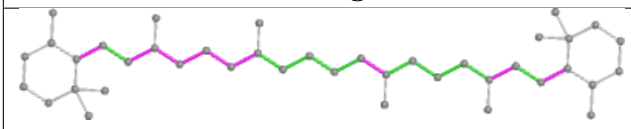
Ligand BCR A 848



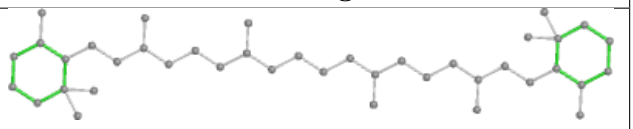
Bond lengths



Bond angles

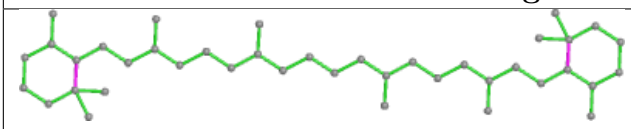


Torsions

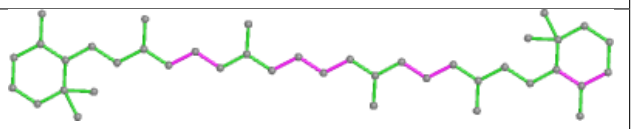


Rings

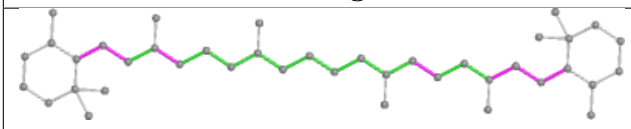
Ligand BCR B 836



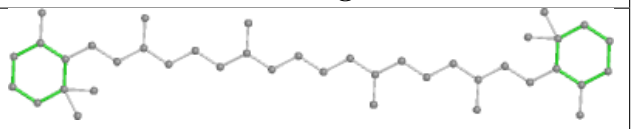
Bond lengths



Bond angles

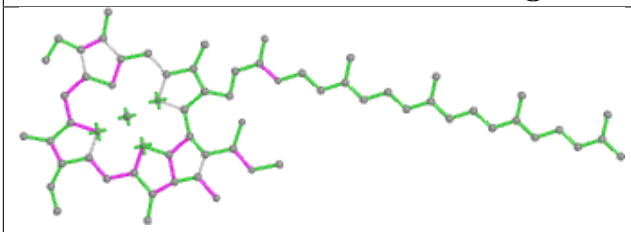


Torsions

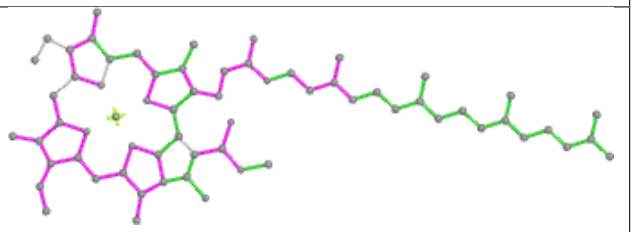


Rings

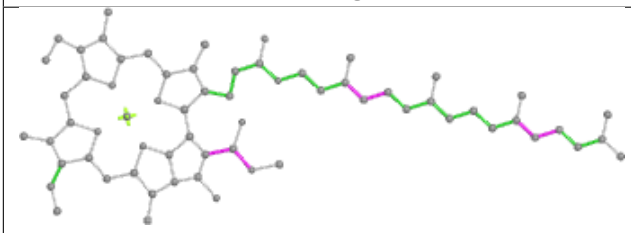
Ligand CLA B 809



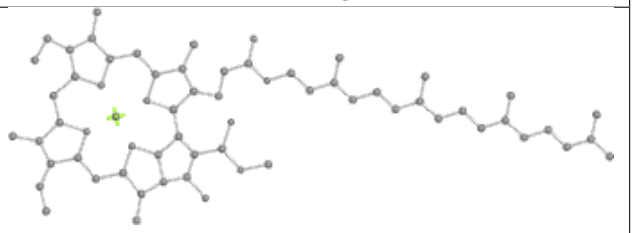
Bond lengths



Bond angles

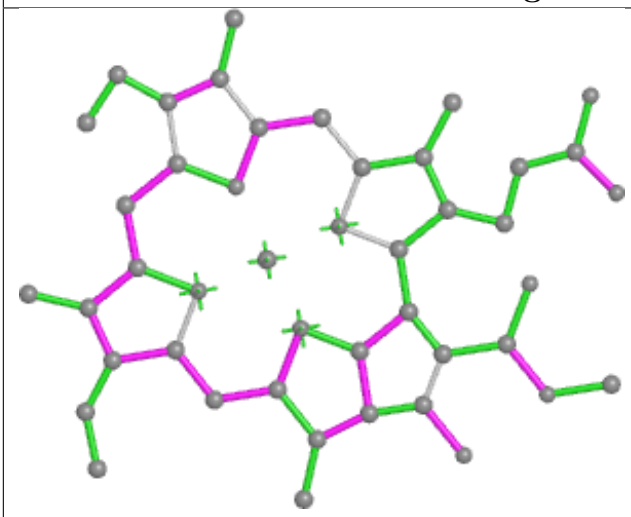


Torsions

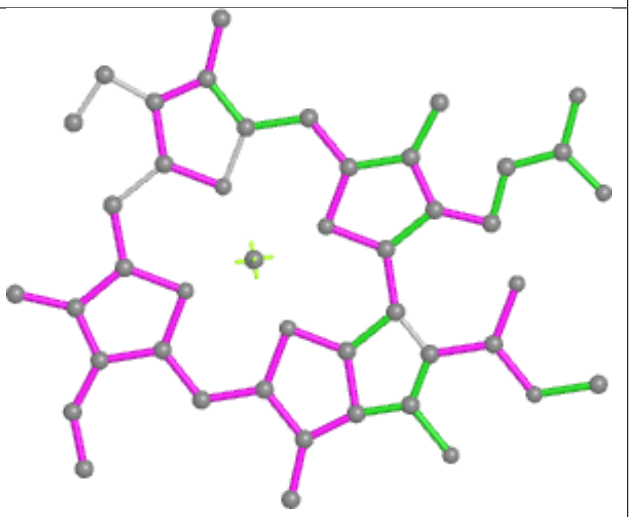


Rings

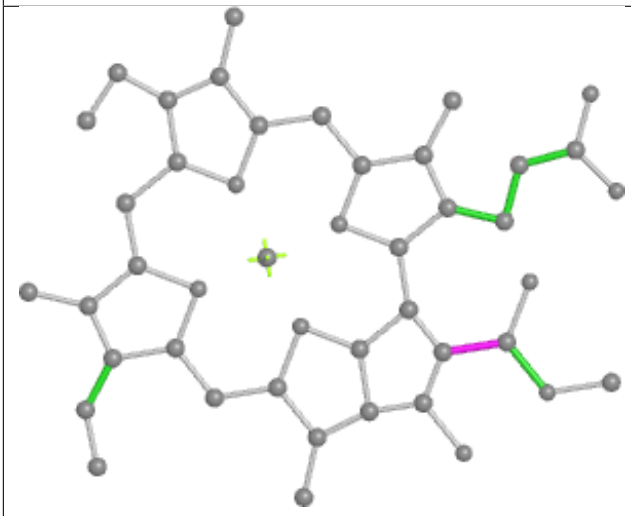
Ligand CLA A 814



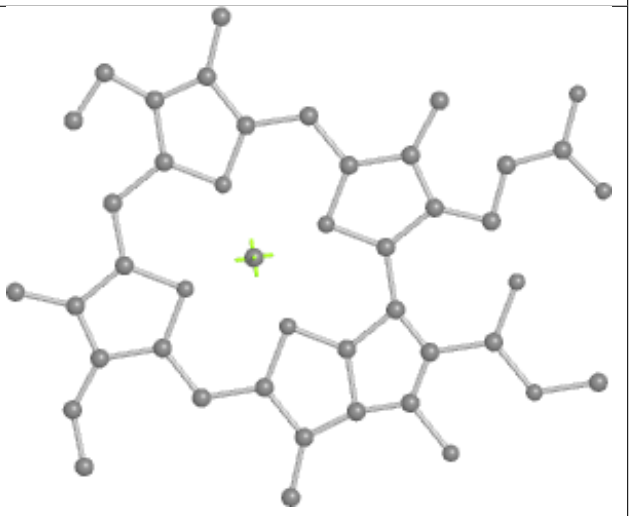
Bond lengths



Bond angles

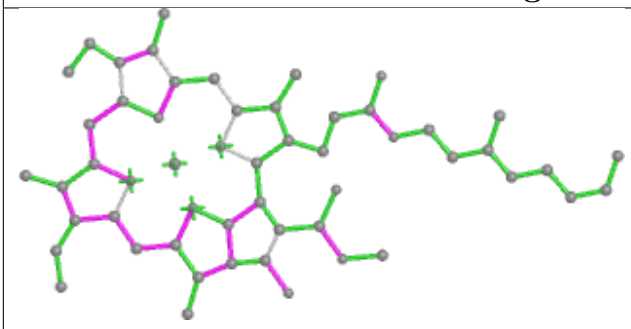


Torsions

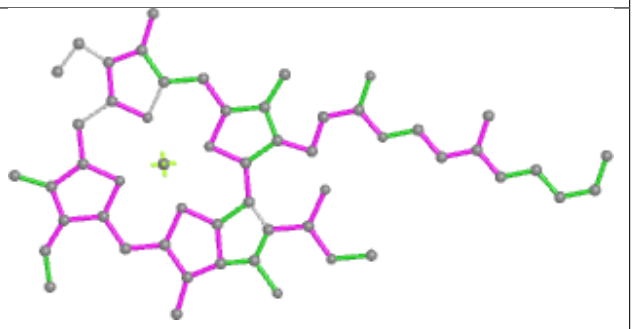


Rings

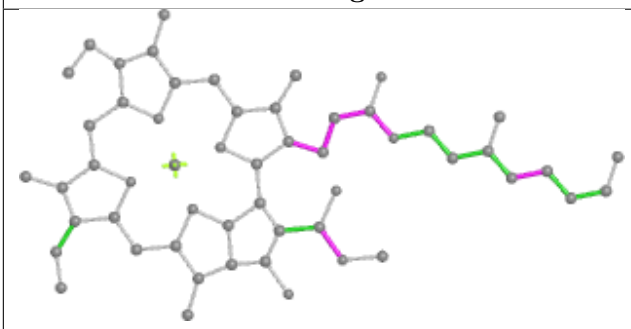
Ligand CLA A 818



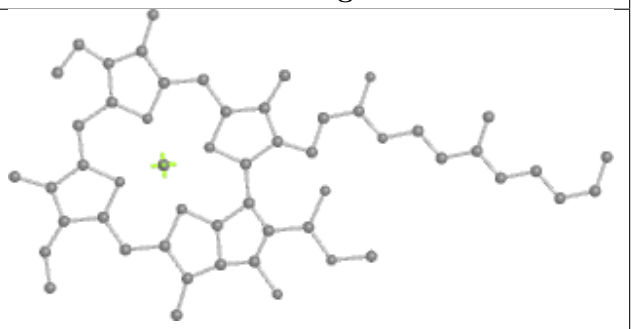
Bond lengths



Bond angles

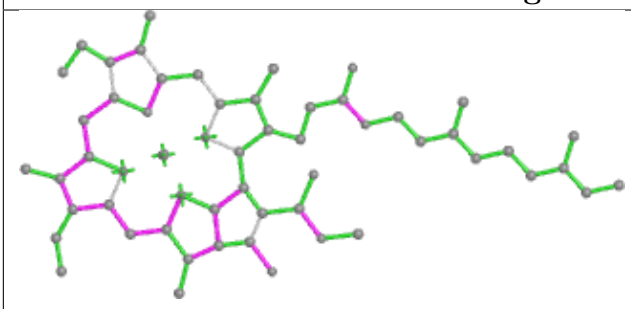


Torsions

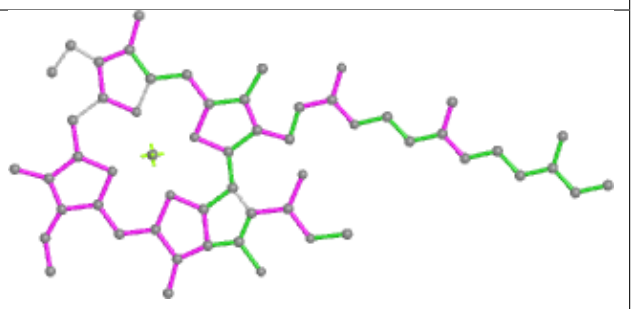


Rings

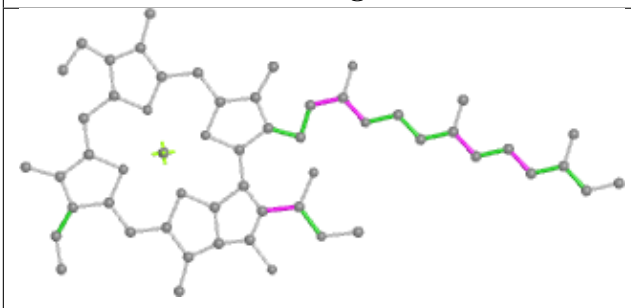
Ligand CLA A 838



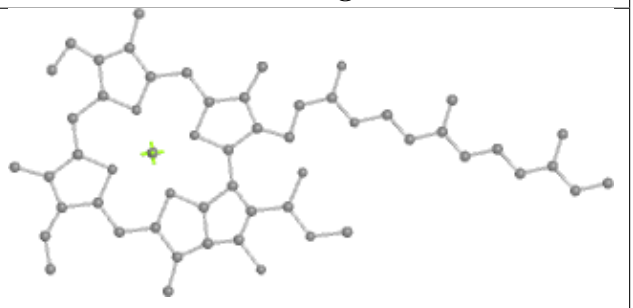
Bond lengths



Bond angles

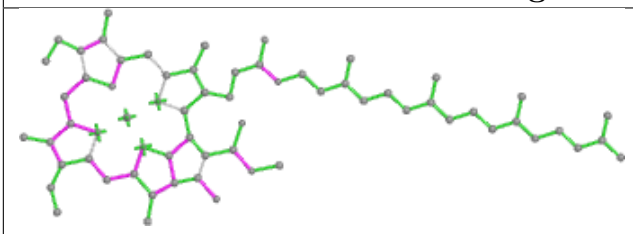


Torsions

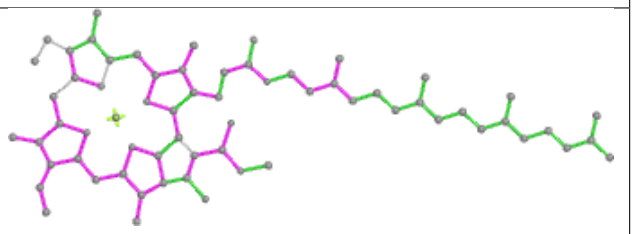


Rings

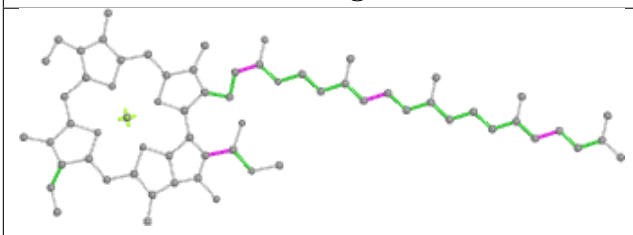
Ligand CL0 A 801



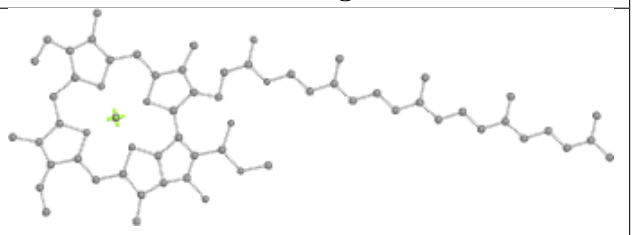
Bond lengths



Bond angles

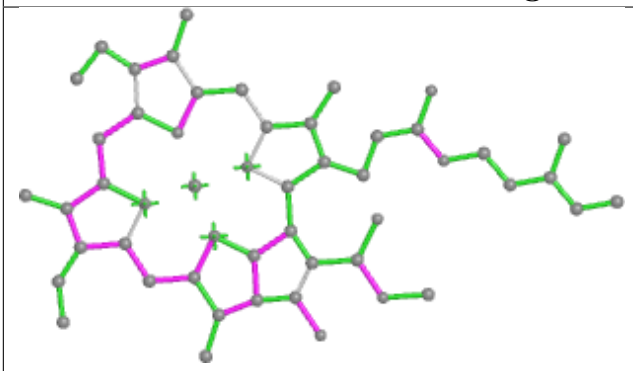


Torsions

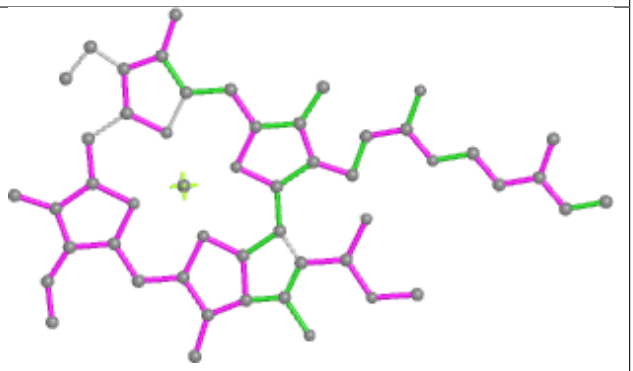


Rings

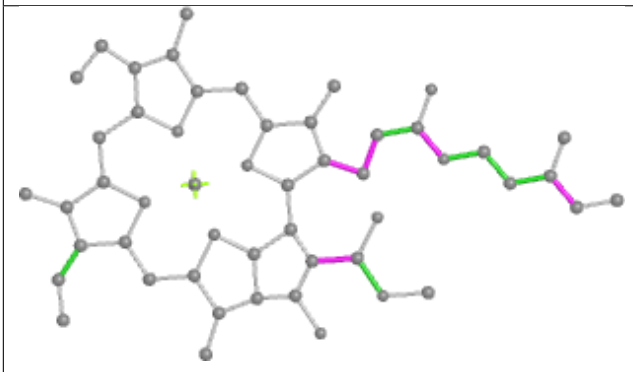
Ligand CLA A 807



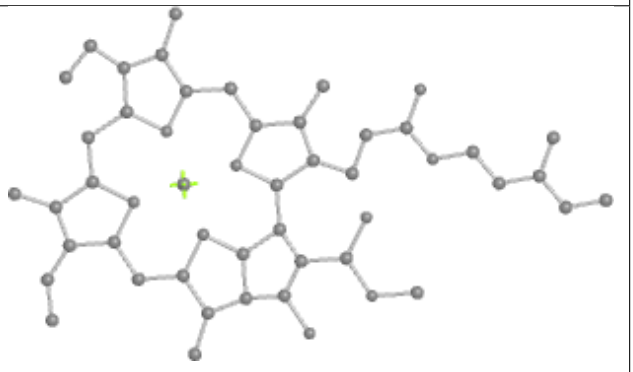
Bond lengths



Bond angles

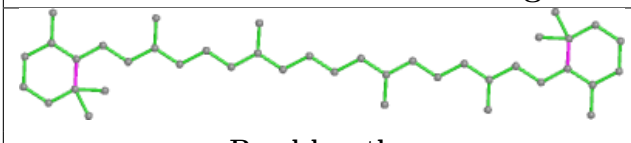


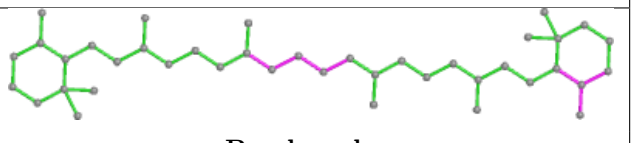
Torsions

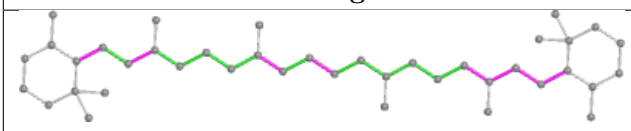


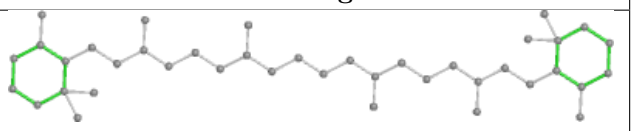
Rings

Ligand BCR F 201

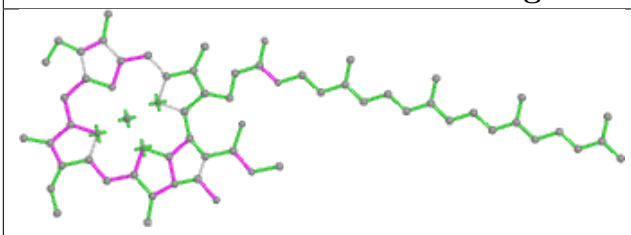

Bond lengths

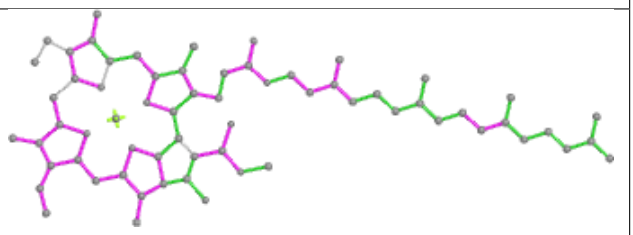

Bond angles

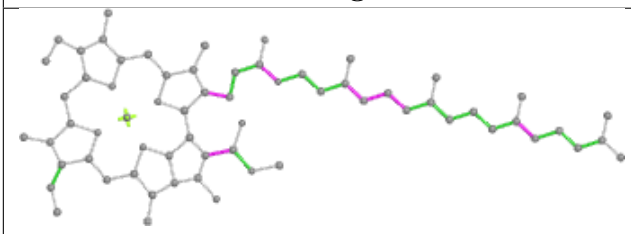

Torsions

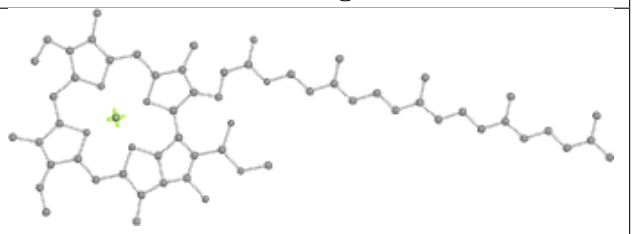

Rings

Ligand CLA A 806

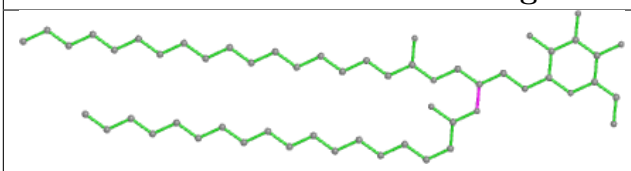

Bond lengths

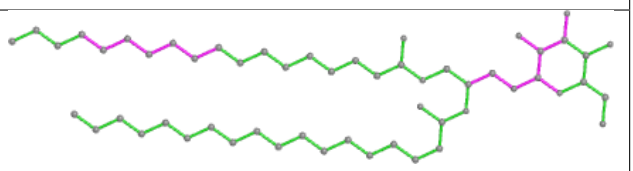

Bond angles

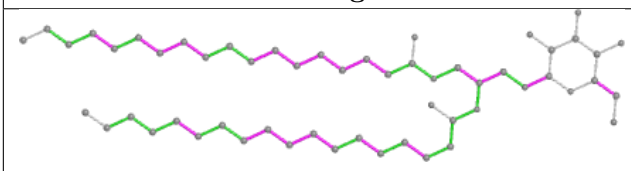

Torsions

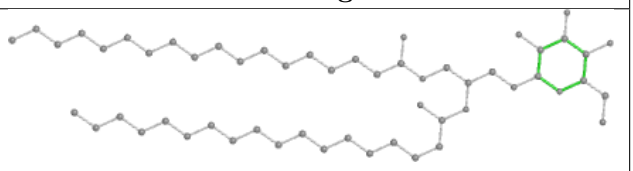

Rings

Ligand LMG B 837

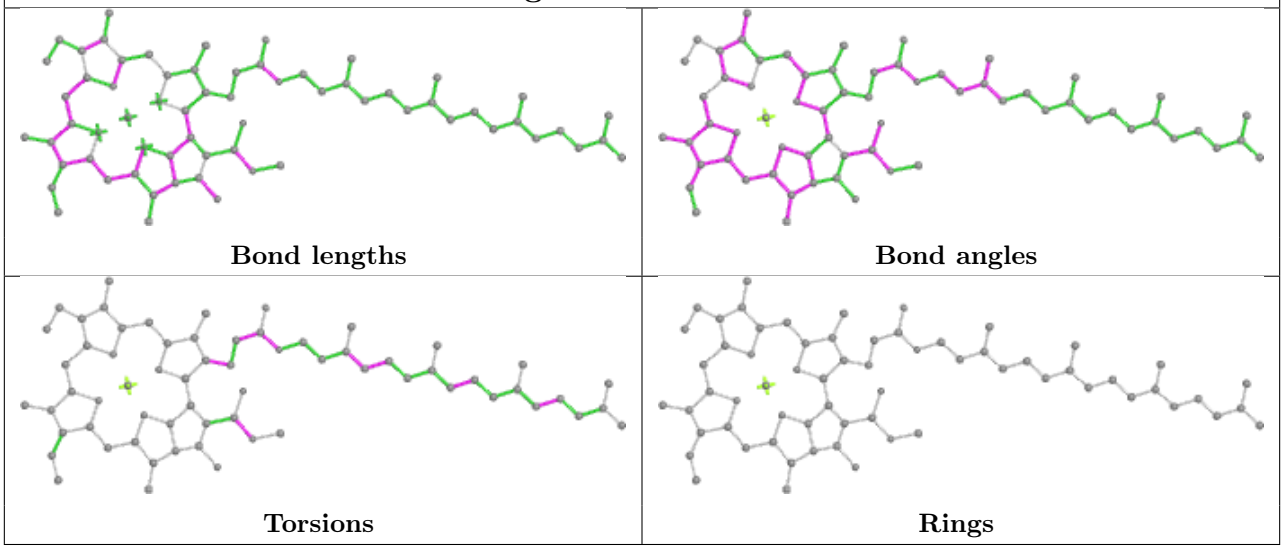

Bond lengths


Bond angles

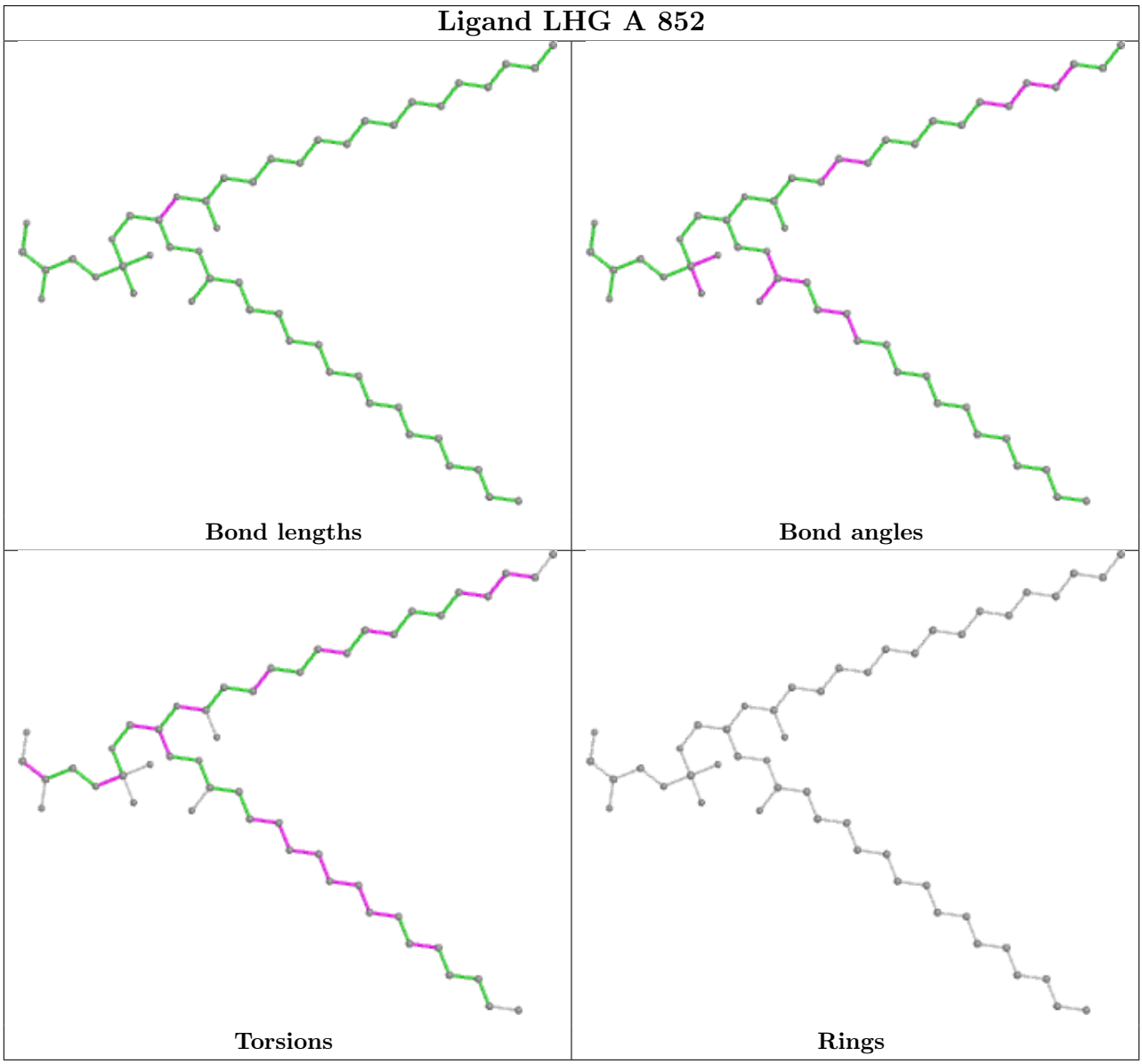

Torsions


Rings

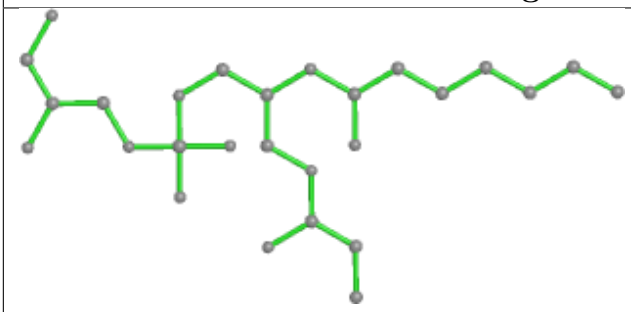
Ligand CLA A 828



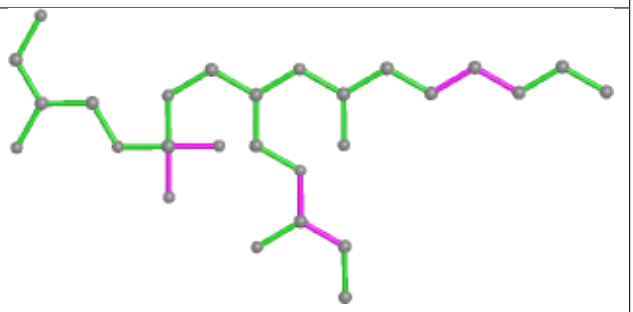
Ligand LHG A 852



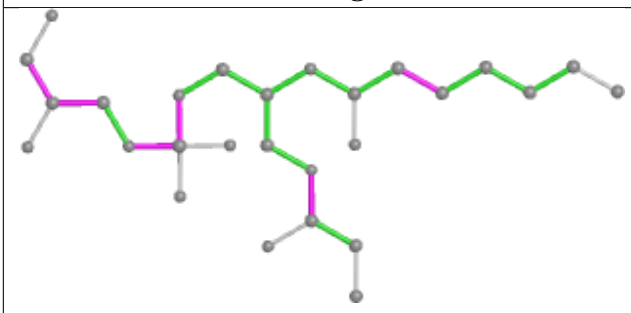
Ligand LHG A 853



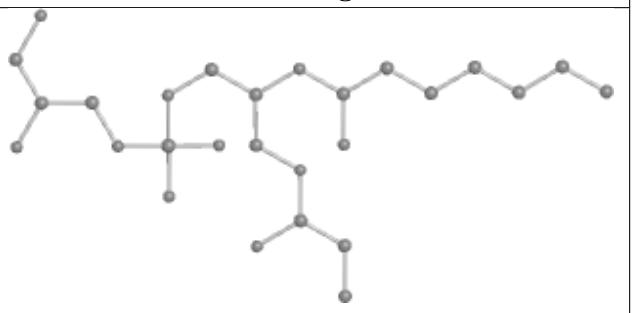
Bond lengths



Bond angles

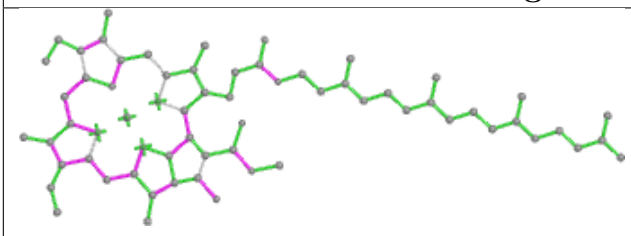


Torsions

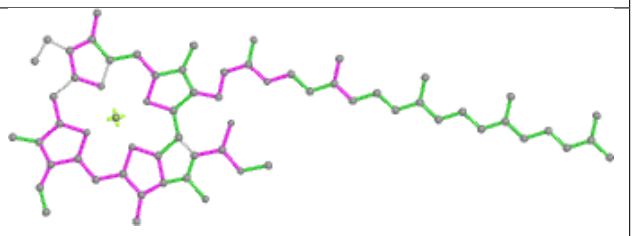


Rings

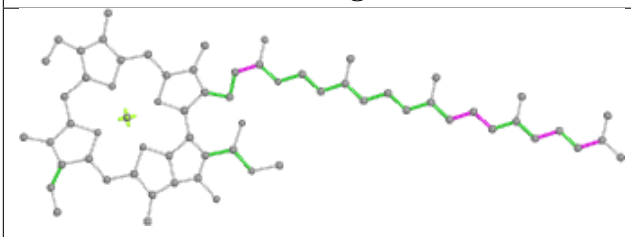
Ligand CLA B 804



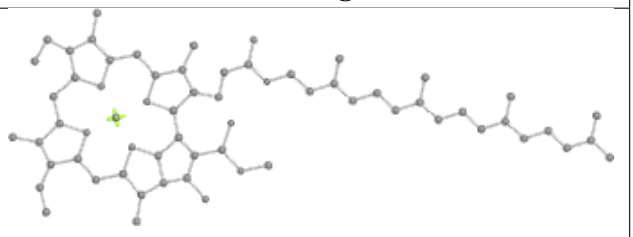
Bond lengths



Bond angles

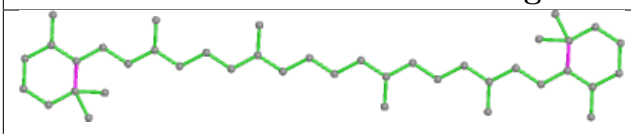


Torsions

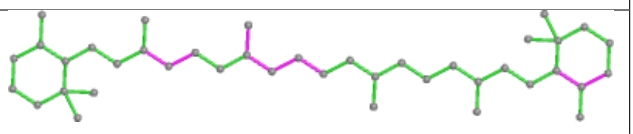


Rings

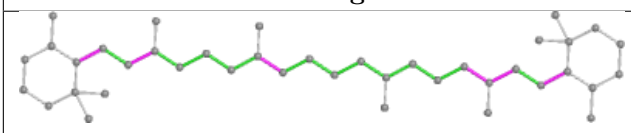
Ligand BCR F 202



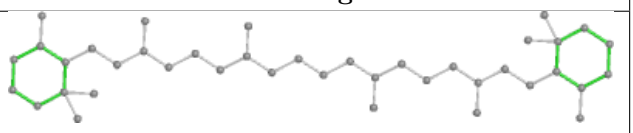
Bond lengths



Bond angles

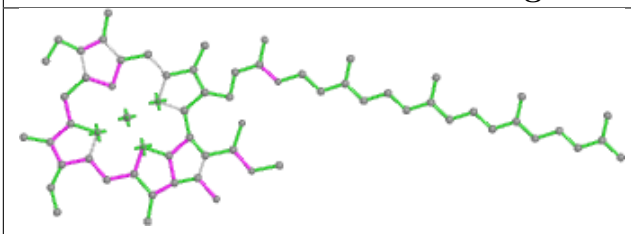


Torsions

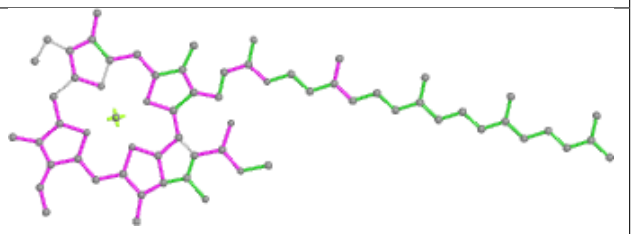


Rings

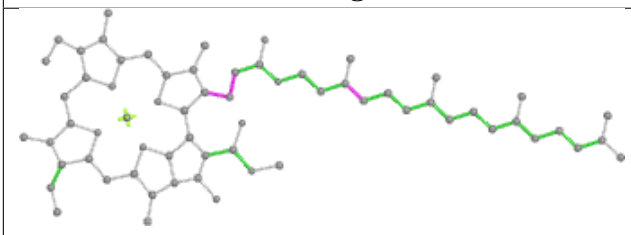
Ligand CLA B 801



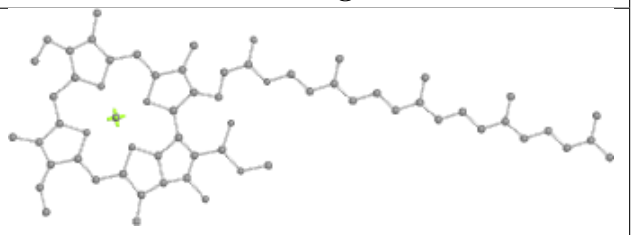
Bond lengths



Bond angles

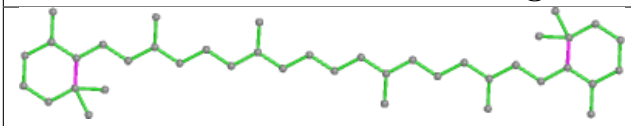


Torsions

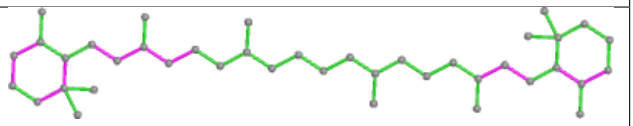


Rings

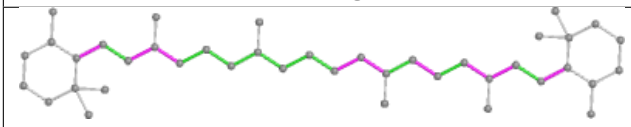
Ligand BCR J 104



Bond lengths



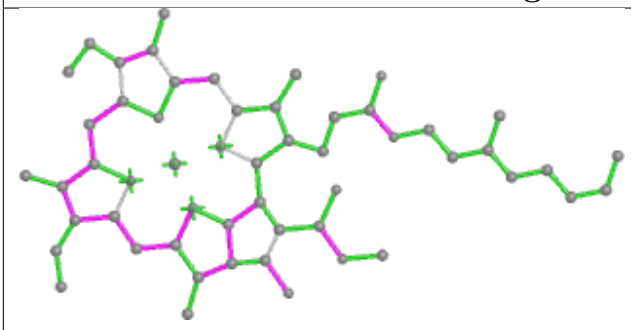
Bond angles



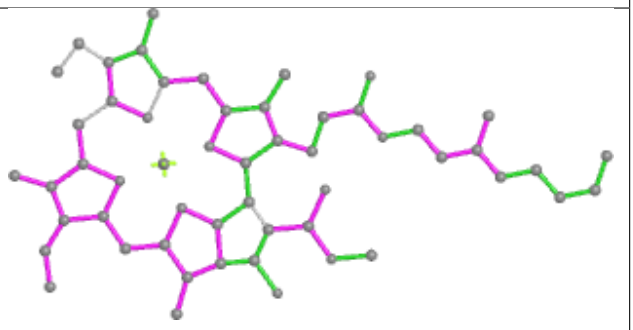
Torsions

Rings

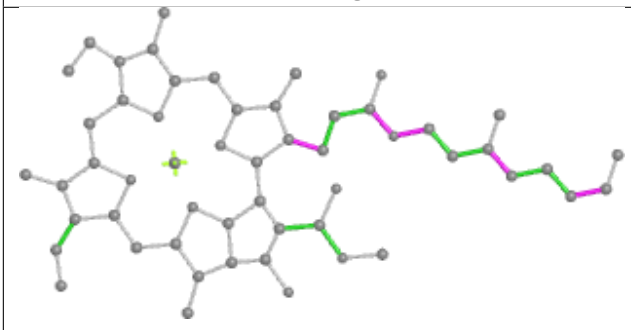
Ligand CLA A 835



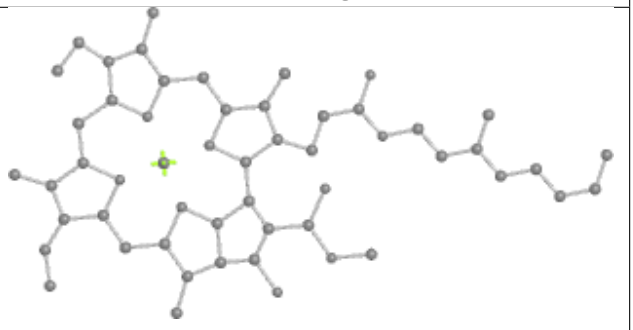
Bond lengths



Bond angles

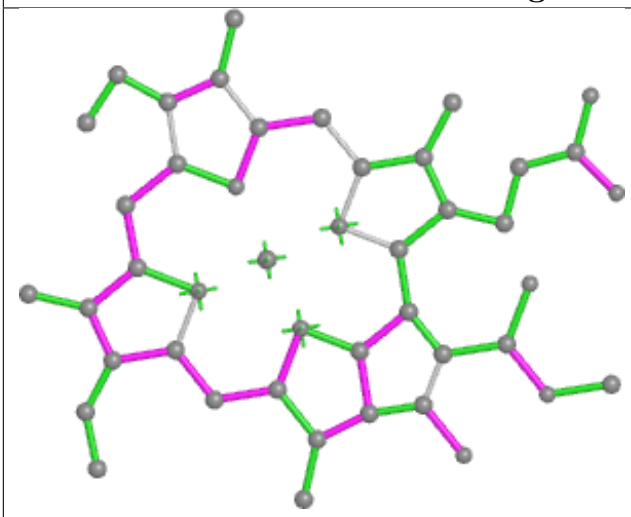


Torsions

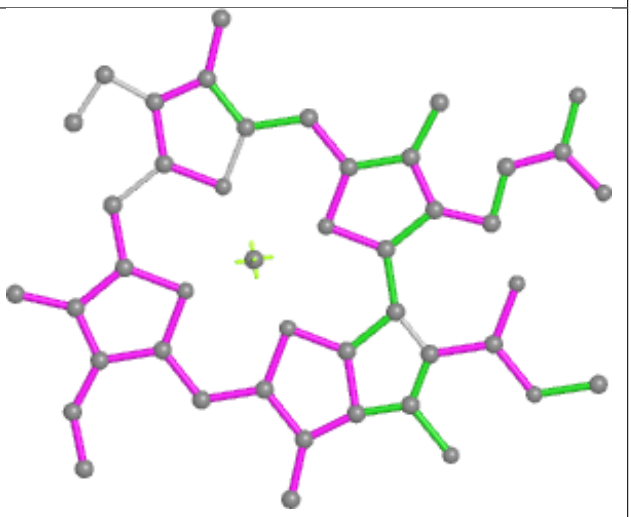


Rings

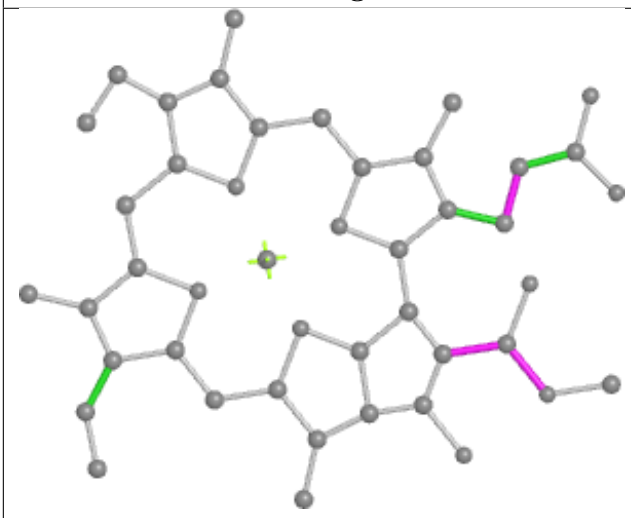
Ligand CLA J 101



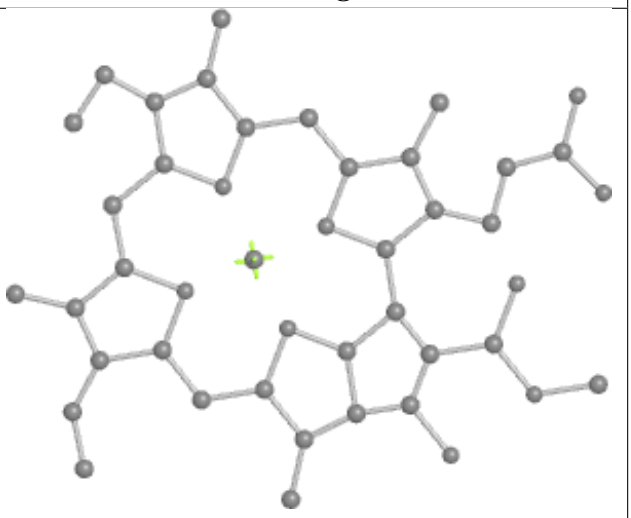
Bond lengths



Bond angles

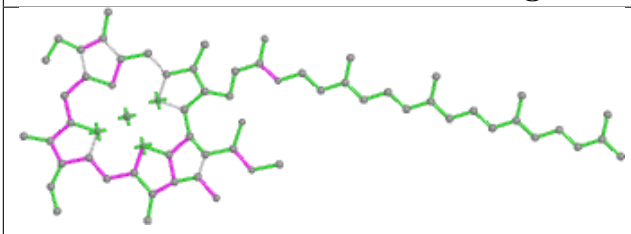


Torsions

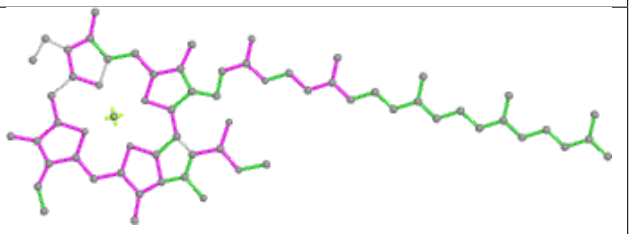


Rings

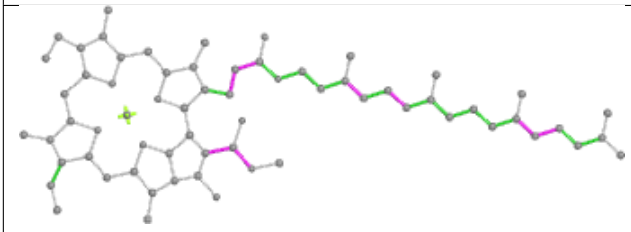
Ligand CLA A 829



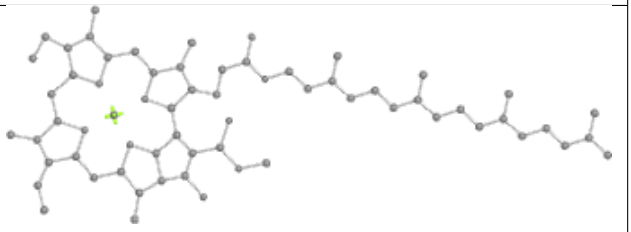
Bond lengths



Bond angles

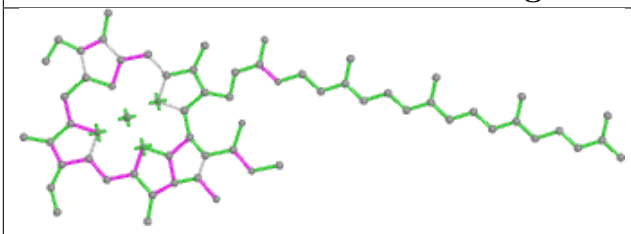


Torsions

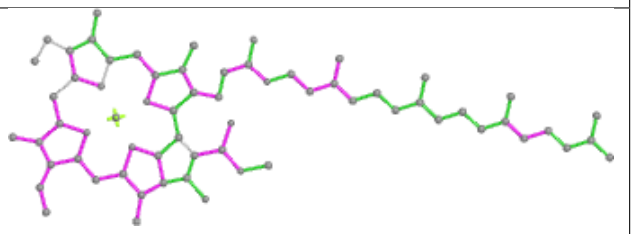


Rings

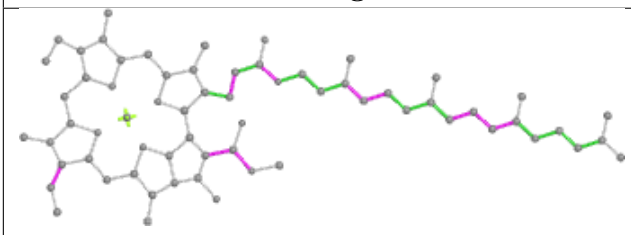
Ligand CLA B 832



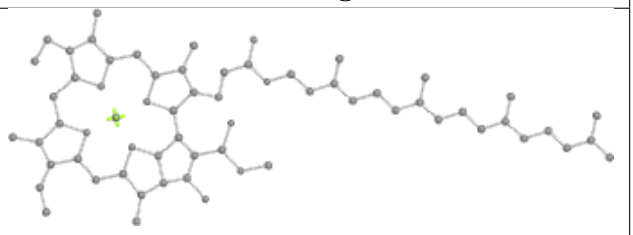
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

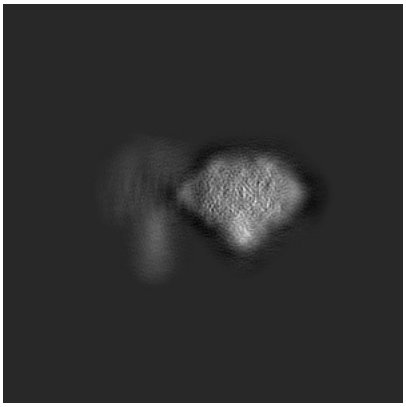
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-30821. These allow visual inspection of the internal detail of the map and identification of artifacts.

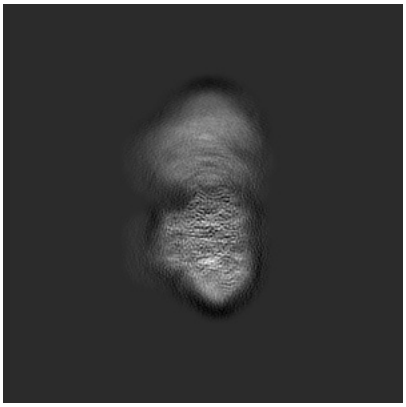
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

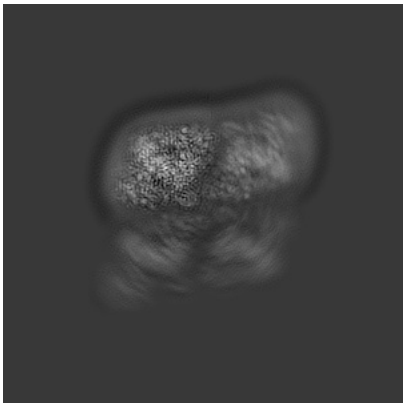
6.1.1 Primary map



X



Y

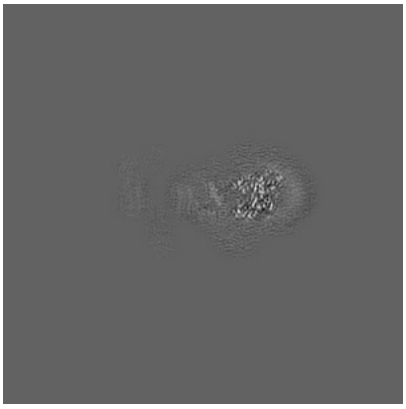


Z

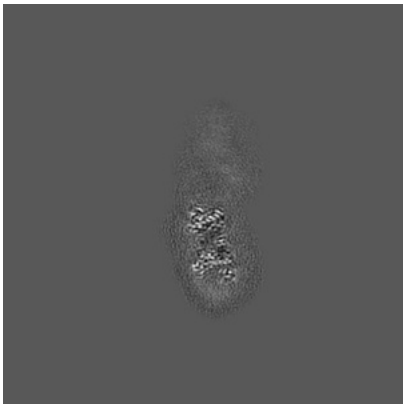
The images above show the map projected in three orthogonal directions.

6.2 Central slices

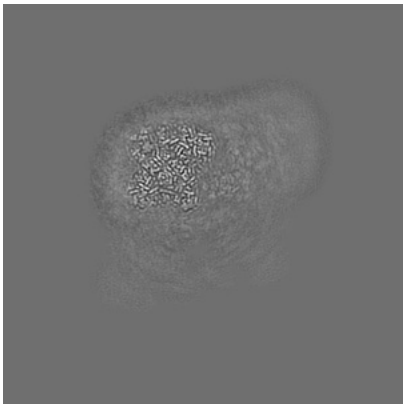
6.2.1 Primary map



X Index: 200



Y Index: 200

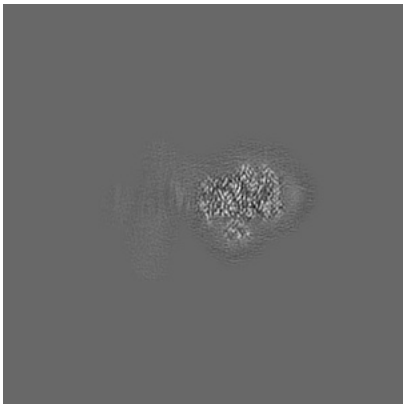


Z Index: 200

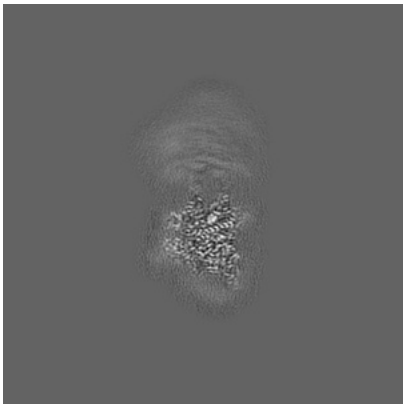
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

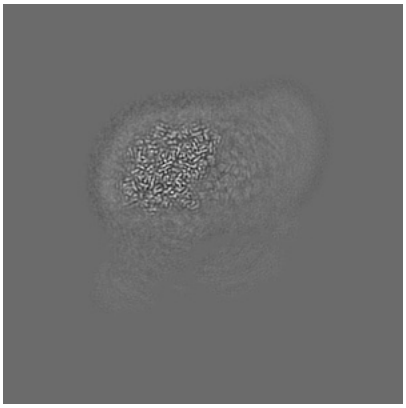
6.3.1 Primary map



X Index: 181



Y Index: 241

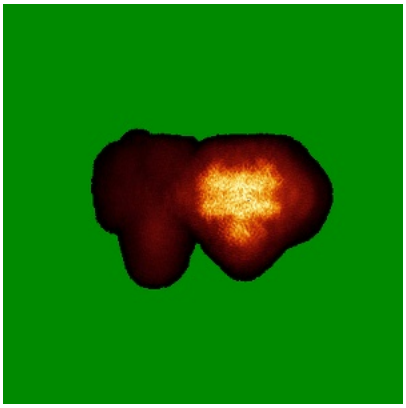


Z Index: 218

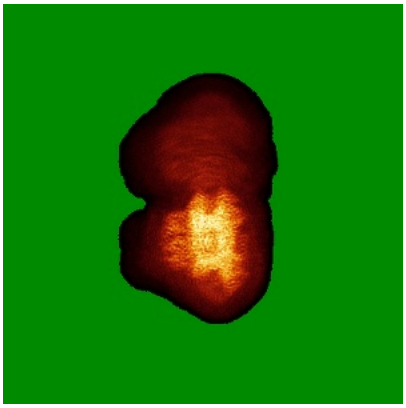
The images above show the largest variance slices of the map in three orthogonal directions.

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

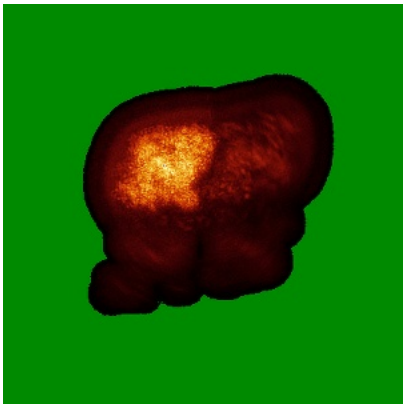
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

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.

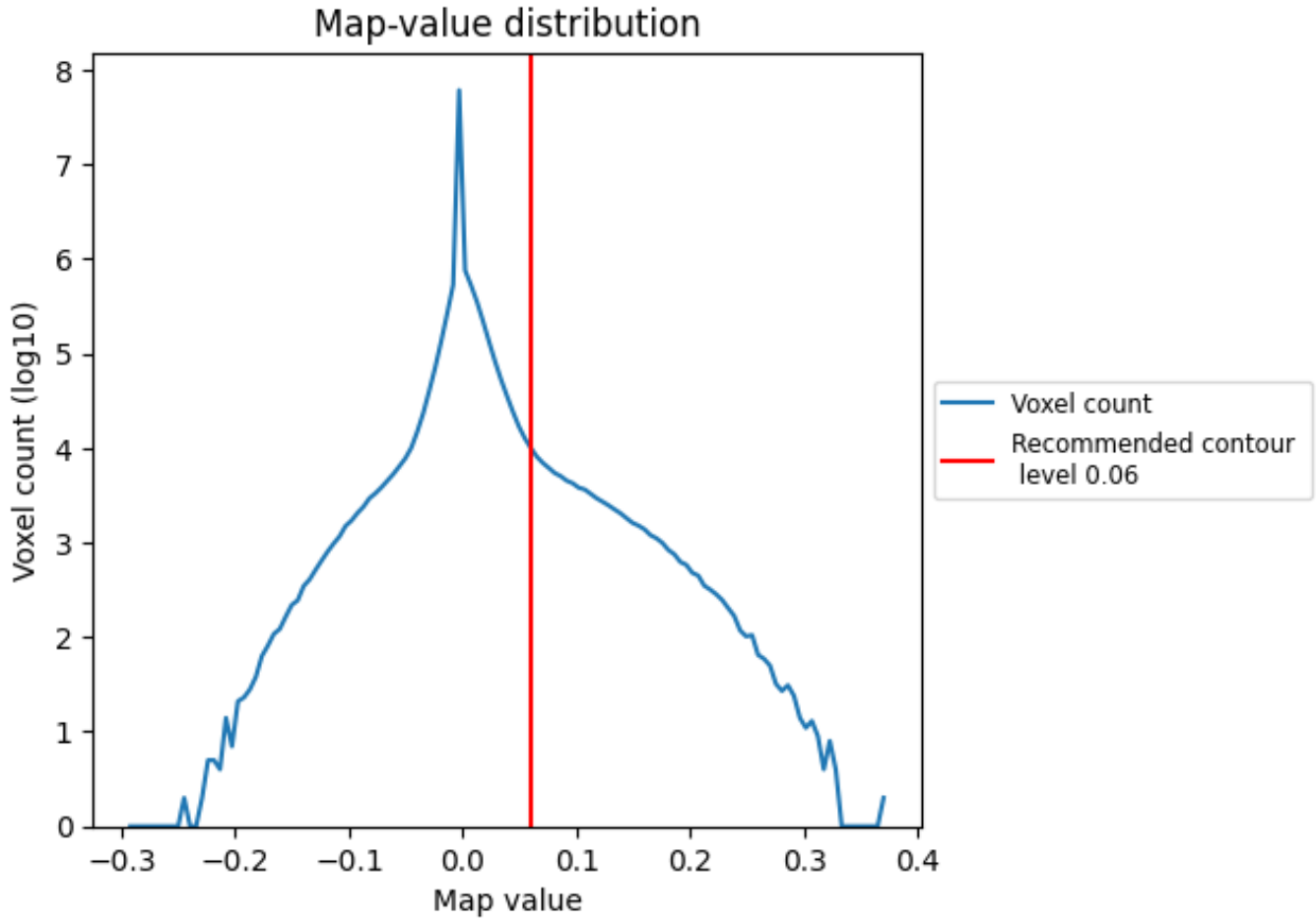
6.6 Mask visualisation (i)

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

7 Map analysis

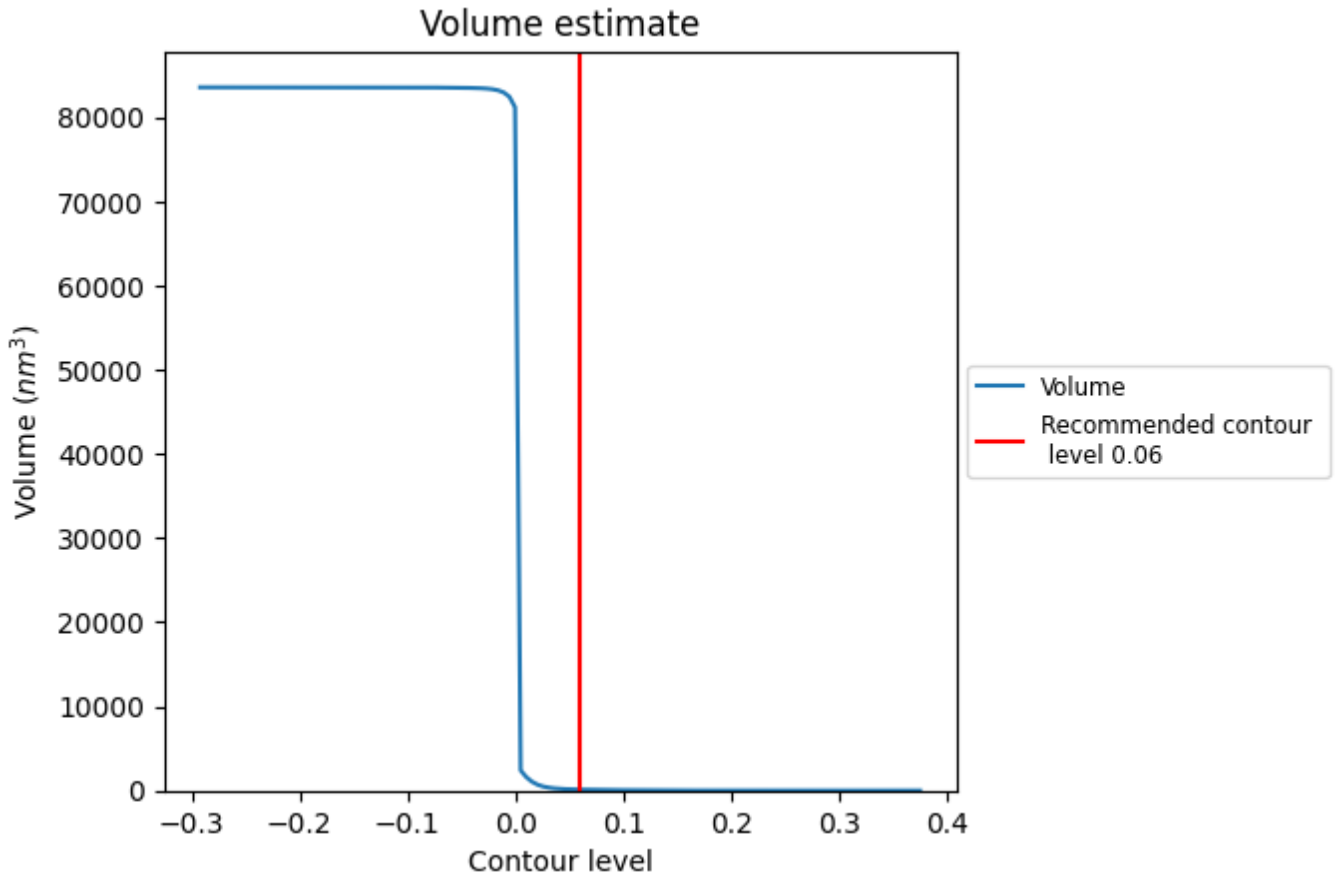
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

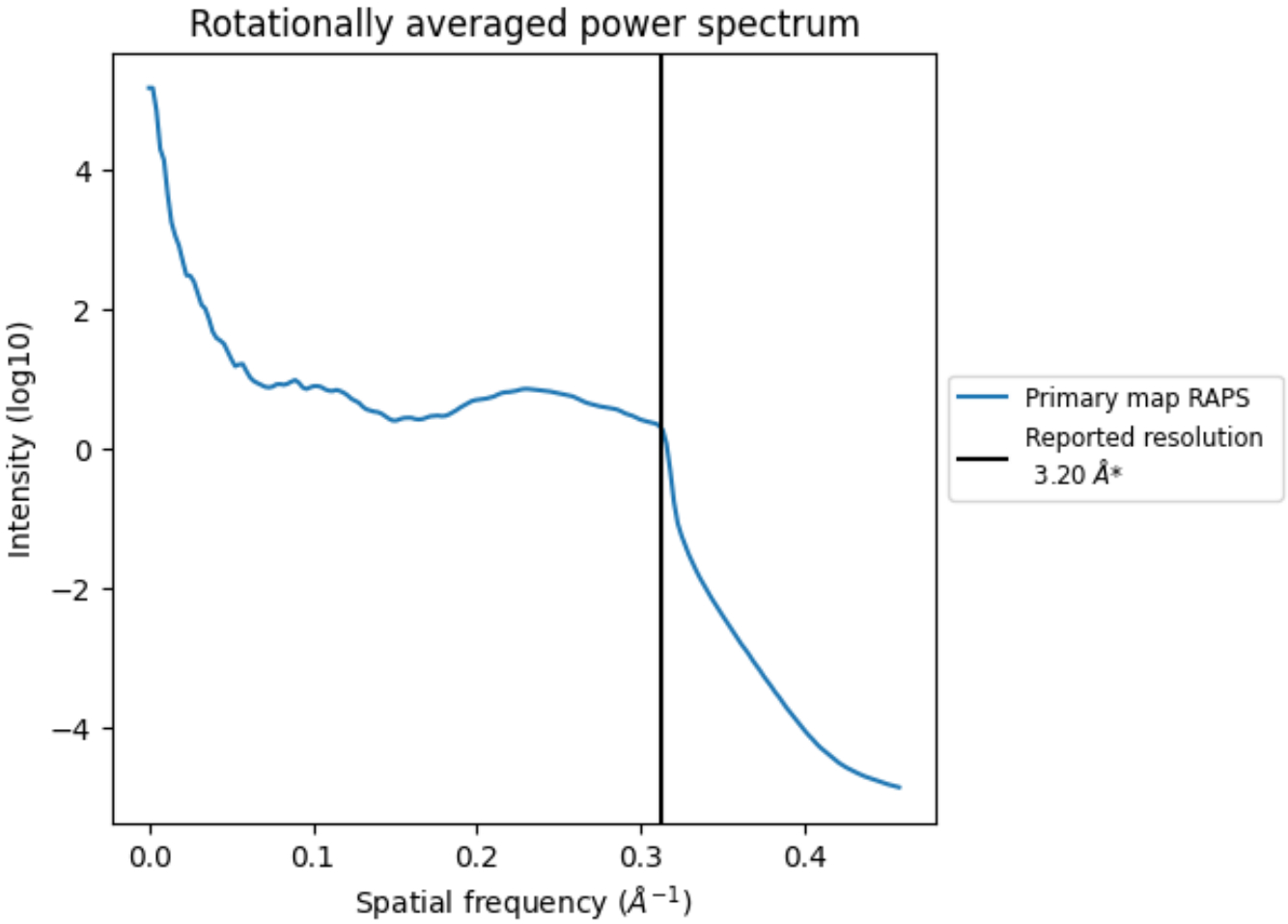
7.2 Volume estimate



The volume at the recommended contour level is 117 nm^3; this corresponds to an approximate mass of 106 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)

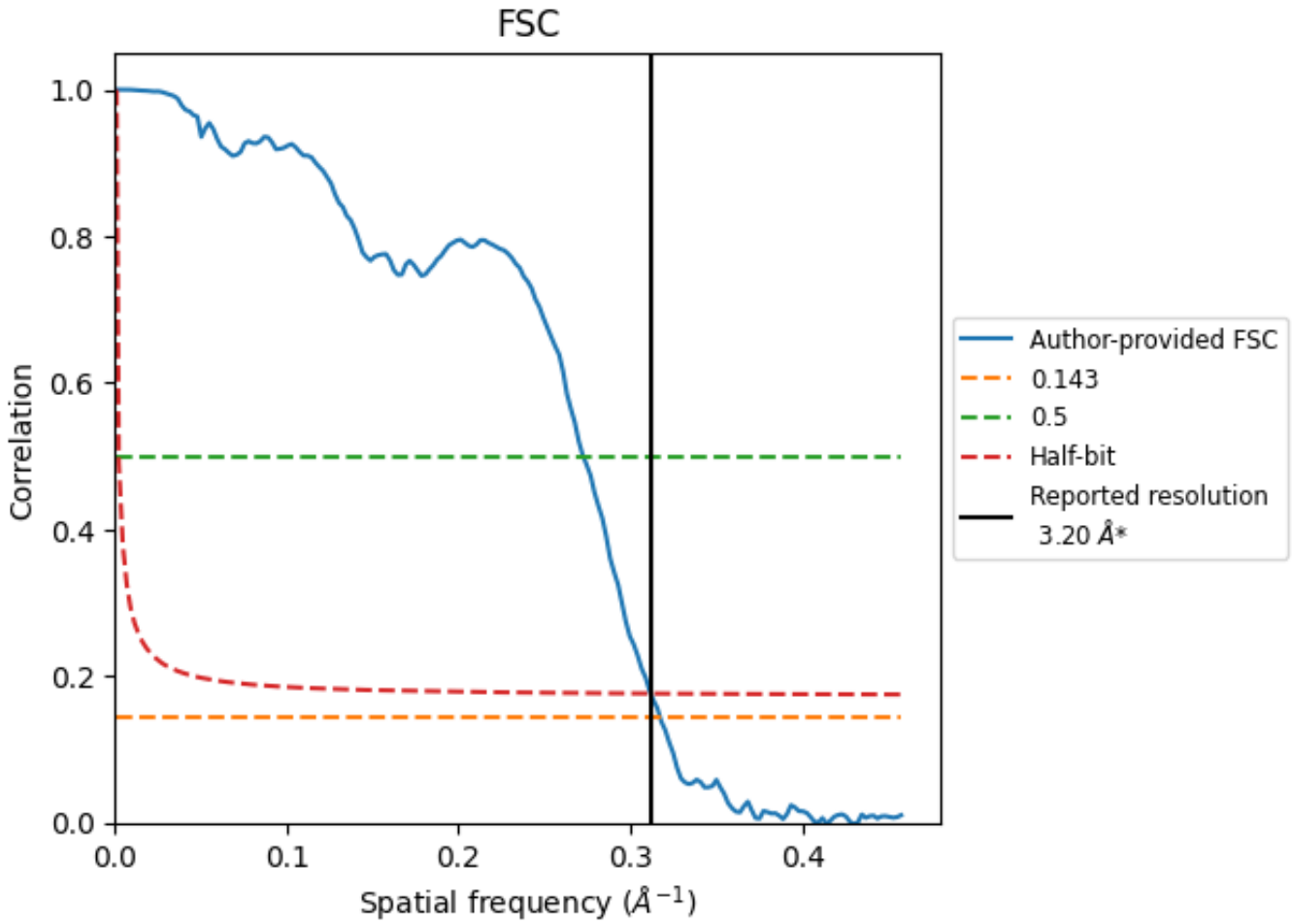


*Reported resolution corresponds to spatial frequency of 0.312 Å^{-1}

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 0.312 Å^{-1}

8.2 Resolution estimates (i)

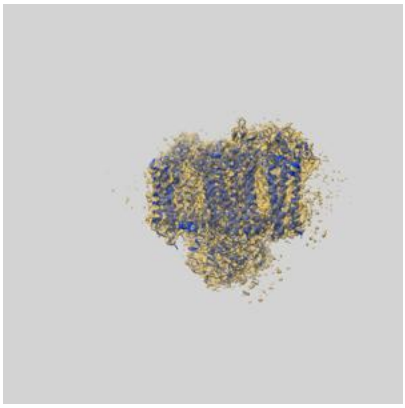
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.20	-	-
Author-provided FSC curve	3.15	3.67	3.21
Unmasked-calculated*	-	-	-

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

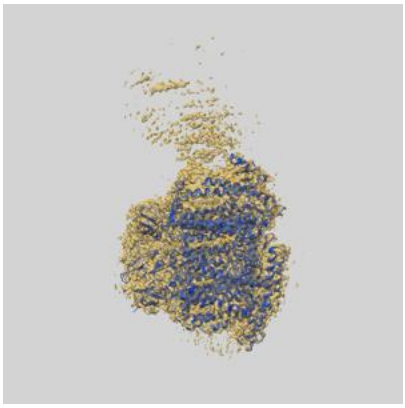
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-30821 and PDB model 7DR1. Per-residue inclusion information can be found in section 3 on page 15.

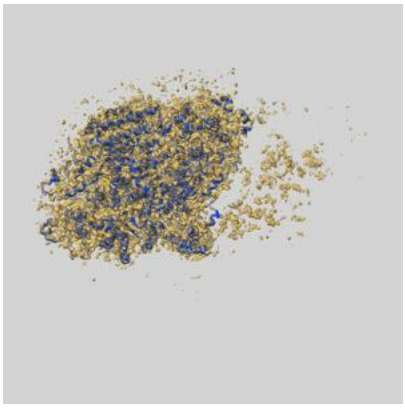
9.1 Map-model overlay



X



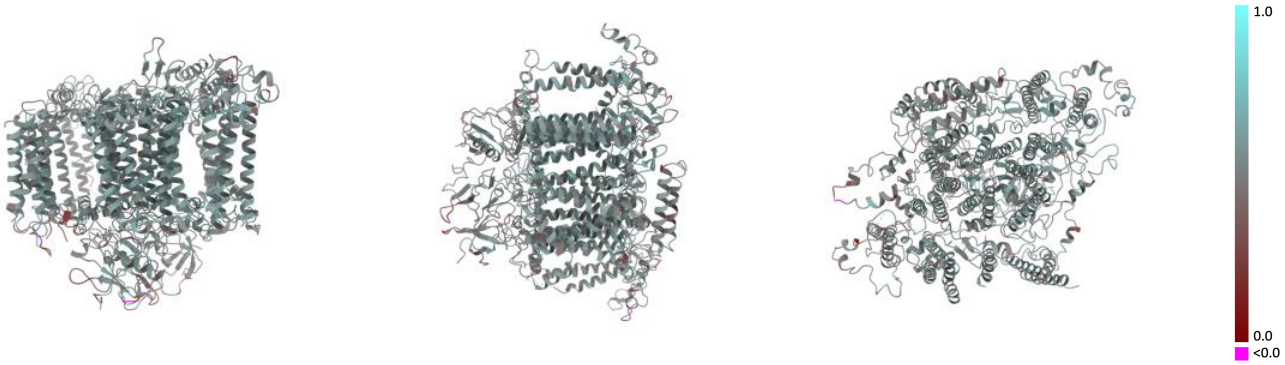
Y



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.

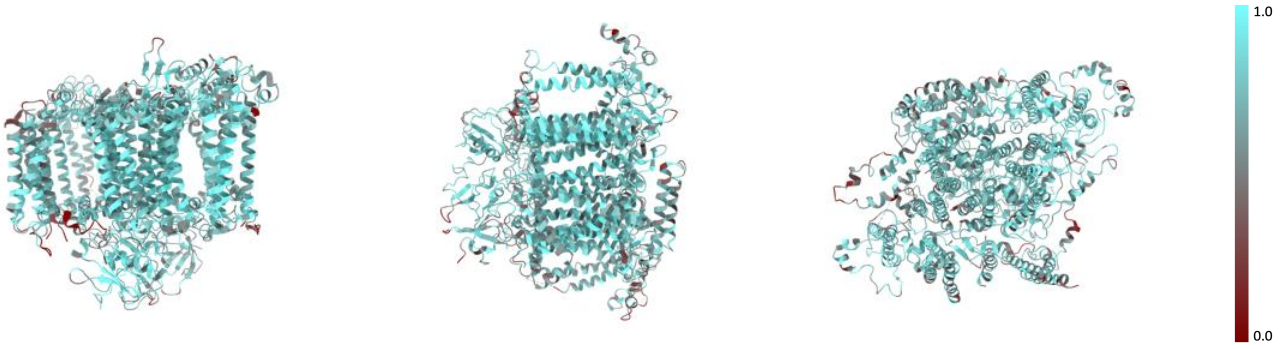
9.2 Q-score mapped to coordinate model (i)



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.

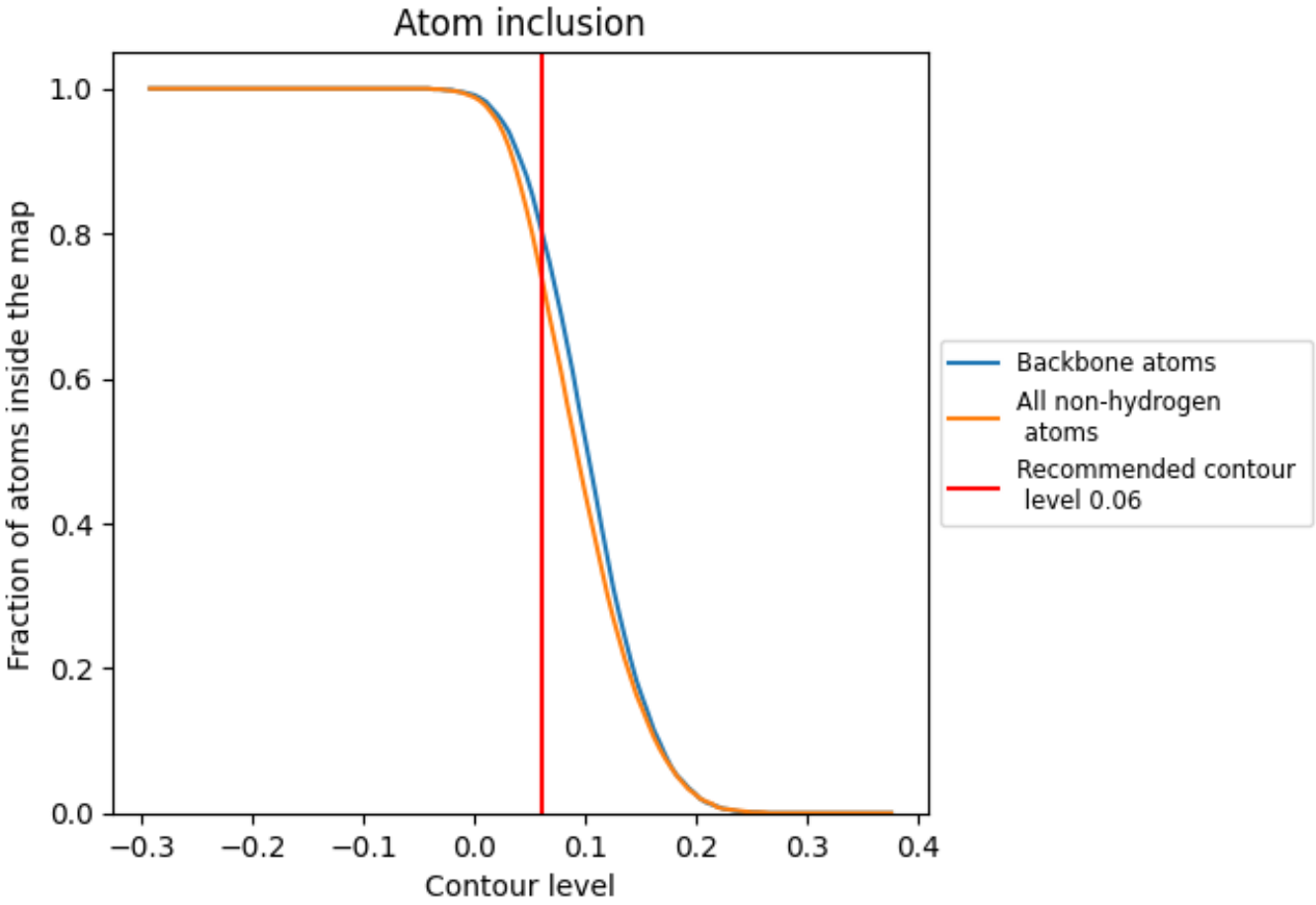
9.3 Atom inclusion mapped to coordinate model (i)



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, 81% of all backbone atoms, 74% 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	0.7430	0.5250
A	0.7770	0.5470
B	0.7460	0.5200
C	0.7870	0.4730
D	0.7550	0.4870
E	0.7190	0.4730
F	0.6660	0.5050
I	0.6480	0.5250
J	0.6730	0.5290
L	0.6270	0.5050
M	0.6550	0.5200