Full wwPDB EM Validation Report ⓘ

Nov 9, 2026 – 08:28 PM EST

PDB ID	:	35ZQ / pdb_000035zq
EMDB ID	:	EMD-77301
Title	:	Structure of Photosystem I from Acaryochloris marina strain MU03
Authors	:	Mehra, H.M.; Gisriel, C.J.
Deposited on	:	2026-05-26
Resolution	:	1.81 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:

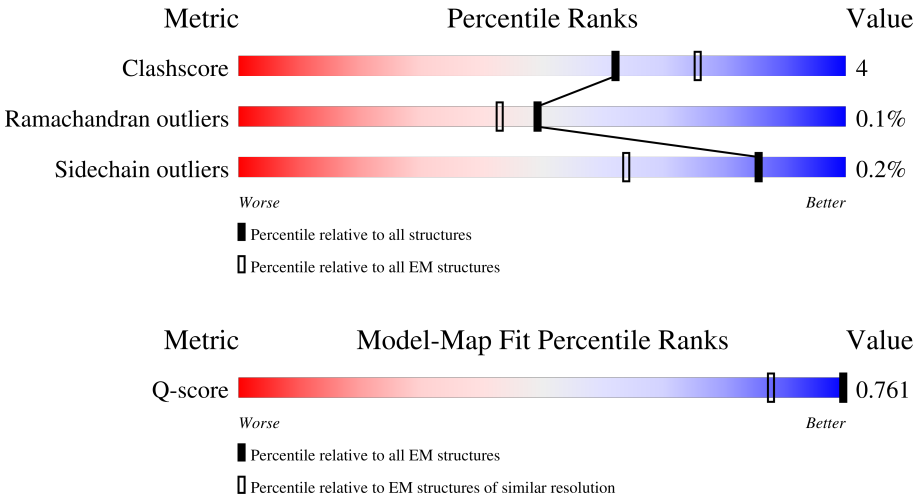
EMDB validation analysis	:	0.0.1.dev133
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.2
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

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 1.81 Å.

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



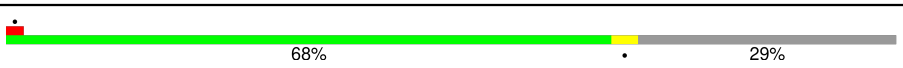
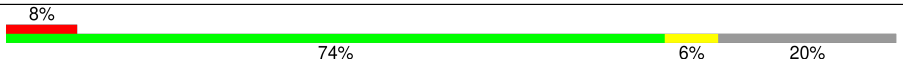
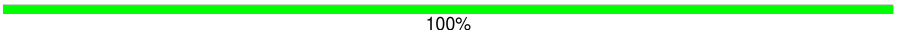
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	869 (1.31 - 2.31)

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	753	91% 8%
2	B	736	89% 7%
3	C	81	86% 12%
4	D	139	91% 7%

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Mol	Chain	Length	Quality of chain
5	E	97	
6	F	167	
7	I	34	
8	J	37	
9	K	86	
10	L	153	
11	M	31	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
12	G9R	A	801	X	-	-	-
13	CL7	A	802	X	-	-	-
13	CL7	A	803	X	-	-	-
13	CL7	A	804	X	-	-	-
13	CL7	A	805	X	-	-	-
13	CL7	A	806	X	-	-	-
13	CL7	A	807	X	-	-	-
13	CL7	A	808	X	-	-	-
13	CL7	A	809	X	-	-	-
13	CL7	A	810	X	-	-	-
13	CL7	A	811	X	-	-	-
13	CL7	A	812	X	-	-	-
13	CL7	A	813	X	-	-	-
13	CL7	A	814	X	-	-	-
13	CL7	A	815	X	-	-	-
13	CL7	A	816	X	-	-	-
13	CL7	A	817	X	-	-	-
13	CL7	A	818	X	-	-	-
13	CL7	A	819	X	-	-	-
13	CL7	A	822	X	-	-	-
13	CL7	A	823	X	-	-	-
13	CL7	A	824	X	-	-	-
13	CL7	A	825	X	-	-	-
13	CL7	A	827	X	-	-	-
13	CL7	A	828	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CL7	A	829	X	-	-	-
13	CL7	A	830	X	-	-	-
13	CL7	A	831	X	-	-	-
13	CL7	A	832	X	-	-	-
13	CL7	A	835	X	-	-	-
13	CL7	A	836	X	-	-	-
13	CL7	A	837	X	-	-	-
13	CL7	A	838	X	-	-	-
13	CL7	A	839	X	-	-	-
13	CL7	A	840	X	-	-	-
13	CL7	A	841	X	-	-	-
13	CL7	A	842	X	-	-	-
13	CL7	A	843	X	-	-	-
13	CL7	A	845	X	-	-	-
13	CL7	A	846	X	-	-	-
13	CL7	A	848	X	-	-	-
13	CL7	A	855	X	-	-	-
13	CL7	B	802	X	-	-	-
13	CL7	B	803	X	-	-	-
13	CL7	B	804	X	-	-	-
13	CL7	B	805	X	-	-	-
13	CL7	B	806	X	-	-	-
13	CL7	B	807	X	-	-	-
13	CL7	B	808	X	-	-	-
13	CL7	B	809	X	-	-	-
13	CL7	B	810	X	-	-	-
13	CL7	B	811	X	-	-	-
13	CL7	B	812	X	-	-	-
13	CL7	B	813	X	-	-	-
13	CL7	B	814	X	-	-	-
13	CL7	B	815	X	-	-	-
13	CL7	B	816	X	-	-	-
13	CL7	B	817	X	-	-	-
13	CL7	B	818	X	-	-	-
13	CL7	B	819	X	-	-	-
13	CL7	B	821	X	-	-	-
13	CL7	B	822	X	-	-	-
13	CL7	B	823	X	-	-	-
13	CL7	B	824	X	-	-	-
13	CL7	B	825	X	-	-	-
13	CL7	B	826	X	-	-	-
13	CL7	B	828	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CL7	B	829	X	-	-	-
13	CL7	B	830	X	-	-	-
13	CL7	B	831	X	-	-	-
13	CL7	B	832	X	-	-	-
13	CL7	B	833	X	-	-	-
13	CL7	B	834	X	-	-	-
13	CL7	B	837	X	-	-	-
13	CL7	B	838	X	-	-	-
13	CL7	B	840	X	-	-	-
13	CL7	B	841	X	-	-	-
13	CL7	B	842	X	-	-	-
13	CL7	B	843	X	-	-	-
13	CL7	B	846	X	-	-	-
13	CL7	F	201	X	-	-	-
13	CL7	F	202	X	-	-	-
13	CL7	F	206	X	-	-	-
13	CL7	I	102	X	-	-	-
13	CL7	J	102	X	-	-	-
13	CL7	J	103	X	-	-	-
13	CL7	K	102	X	-	-	-
13	CL7	K	103	X	-	-	-
13	CL7	L	201	X	-	-	-
13	CL7	L	204	X	-	-	-
13	CL7	L	205	X	-	-	-
13	CL7	L	207	X	-	-	-
22	K3I	B	845	X	-	-	-

2 Entry composition (i)

There are 23 unique types of molecules in this entry. The entry contains 24496 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	741	5839	3813	994	1002	30	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	710	5598	3683	939	955	21	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	599	368	103	117	11	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	136	1037	649	180	202	6	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	69	540	339	96	104	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	139	1034	650	181	198	5	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	32	Total	C	N	O	S	0	0
			242	161	35	42	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	J	35	Total	C	N	O	S	0	0
			292	207	40	44	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
9	K	69	Total	C	N	O	S	0	0
			506	334	85	84	3		

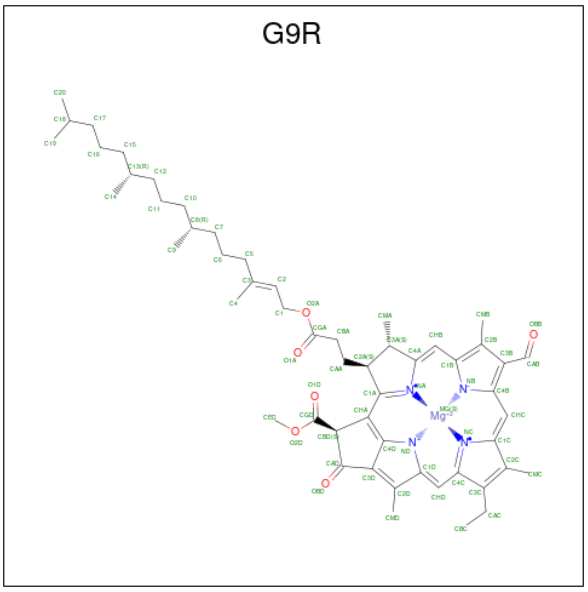
- Molecule 10 is a protein called Photosystem I reaction center subunit XI.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	L	148	Total	C	N	O	S	0	0
			1059	680	177	195	7		

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

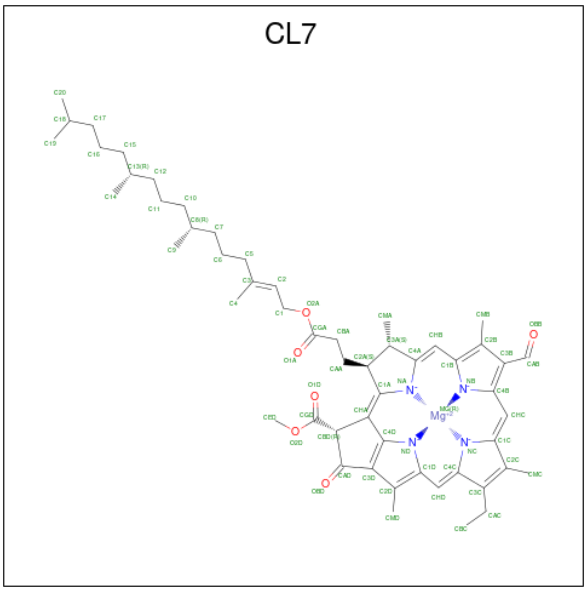
Mol	Chain	Residues	Atoms					AltConf	Trace
11	M	31	Total	C	N	O	S	0	0
			222	146	34	41	1		

- Molecule 12 is CHLOROPHYLL D ISOMER (CCD ID: G9R) (formula: $C_{54}H_{70}MgN_4O_6$).



Mol	Chain	Residues	Atoms					AltConf
12	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	

- Molecule 13 is CHLOROPHYLL D (CCD ID: CL7) (formula: $C_{54}H_{70}MgN_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total	C	Mg	N	O	0
			55	44	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			55	44	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			55	44	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	A	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
13	B	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
13	B	1	Total	C	Mg	N	O	0
			56	45	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			54	43	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			55	44	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	

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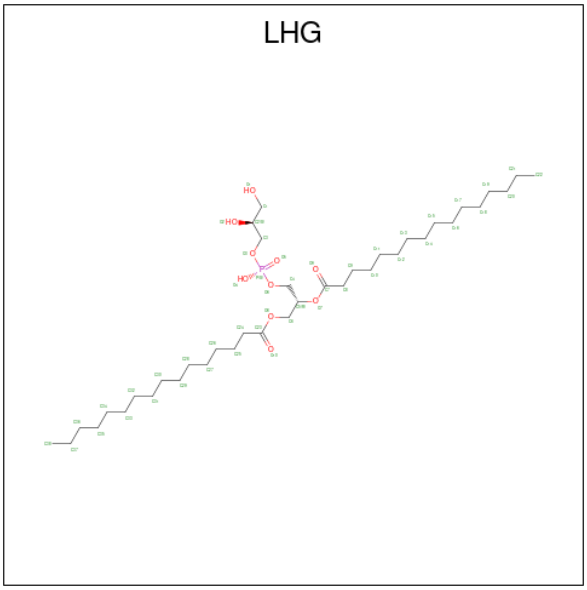
Mol	Chain	Residues	Atoms					AltConf
13	B	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N		0
			27	22	1	4		
13	B	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	B	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
13	F	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	F	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	F	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	I	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
13	J	1	Total	C	Mg	N	O	0
			60	49	1	4	6	
13	J	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
13	K	1	Total	C	Mg	N	O	0
			41	32	1	4	4	

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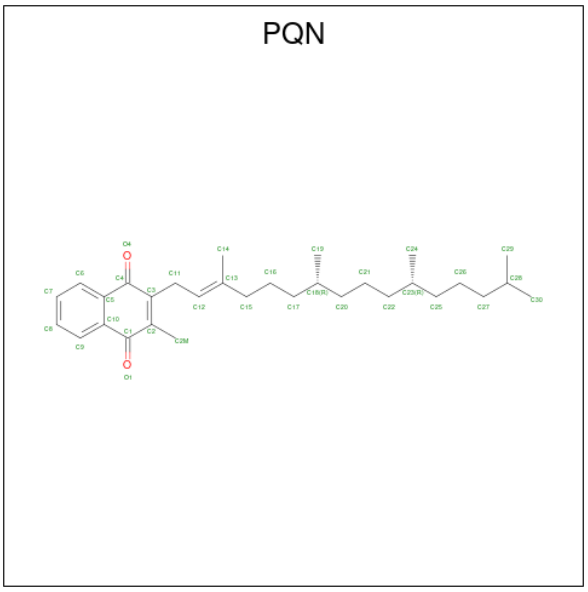
Mol	Chain	Residues	Atoms					AltConf
13	K	1	Total	C	Mg	N	O	0
			37	30	1	4	2	
13	L	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	L	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	L	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
13	L	1	Total	C	Mg	N	O	0
			65	54	1	4	6	

- Molecule 14 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$).



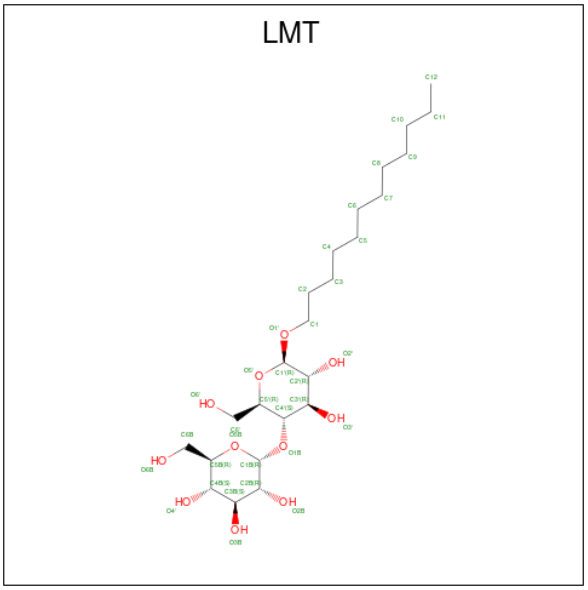
Mol	Chain	Residues	Atoms				AltConf
14	A	1	Total	C	O	P	0
			49	38	10	1	
14	A	1	Total	C	O	P	0
			46	35	10	1	
14	B	1	Total	O	P		0
			5	4	1		
14	L	1	Total	C	O	P	0
			43	32	10	1	

- Molecule 15 is PHYLLOQUINONE (CCD ID: PQN) (formula: $C_{31}H_{46}O_2$).



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

- Molecule 16 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: $C_{24}H_{46}O_{11}$).



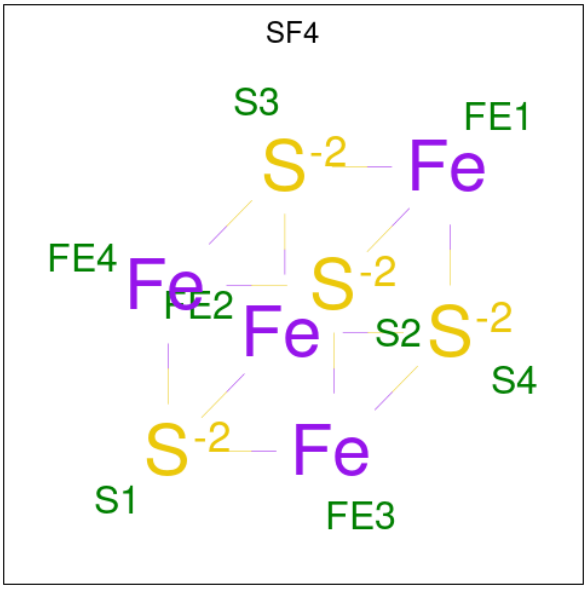
Mol	Chain	Residues	Atoms	AltConf
16	A	1	Total C O 35 24 11	0
16	A	1	Total C O 35 24 11	0

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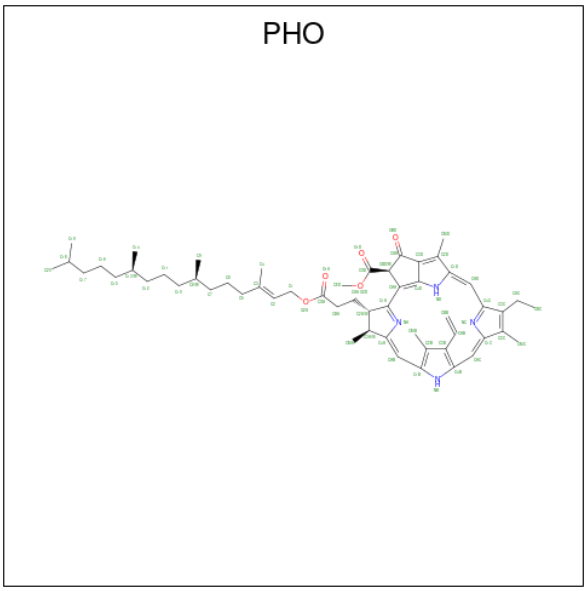
Mol	Chain	Residues	Atoms	AltConf
16	A	1	Total C O 24 18 6	0
16	B	1	Total C O 24 18 6	0
16	B	1	Total C O 22 16 6	0
16	F	1	Total C O 30 19 11	0
16	K	1	Total C O 18 12 6	0
16	L	1	Total C O 35 24 11	0

- Molecule 17 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



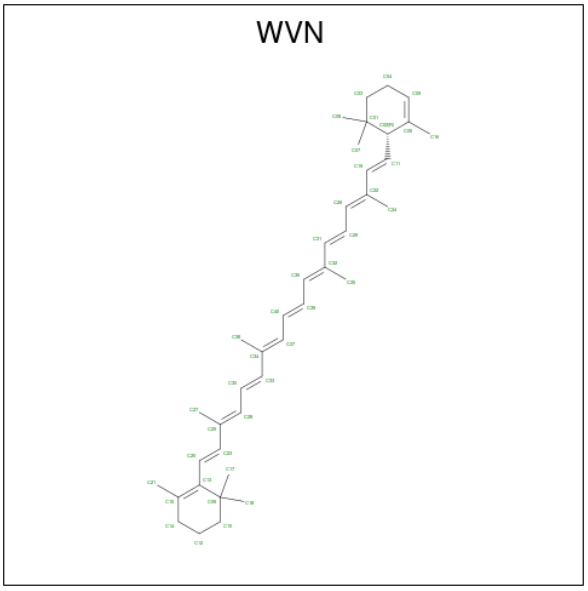
Mol	Chain	Residues	Atoms	AltConf
17	A	1	Total Fe S 8 4 4	0
17	C	1	Total Fe S 8 4 4	0
17	C	1	Total Fe S 8 4 4	0

- Molecule 18 is PHEOPHYTIN A (CCD ID: PHO) (formula: $C_{55}H_{74}N_4O_5$).



Mol	Chain	Residues	Atoms				AltConf
18	A	1	Total	C	N	O	0
			64	55	4	5	
18	B	1	Total	C	N	O	0
			64	55	4	5	

- Molecule 19 is 1,3,3-trimethyl-2-[(1E,3E,5E,7E,9E,11E,13E,15E,17E)-3,7,12,16-tetramethyl-18-[(1R)-2,6,6-trimethylcyclohex-2-en-1-yl]octadeca-1,3,5,7,9,11,13,15,17-nonaenyl]cyclohexene (CCD ID: WVN) (formula: $C_{40}H_{56}$).



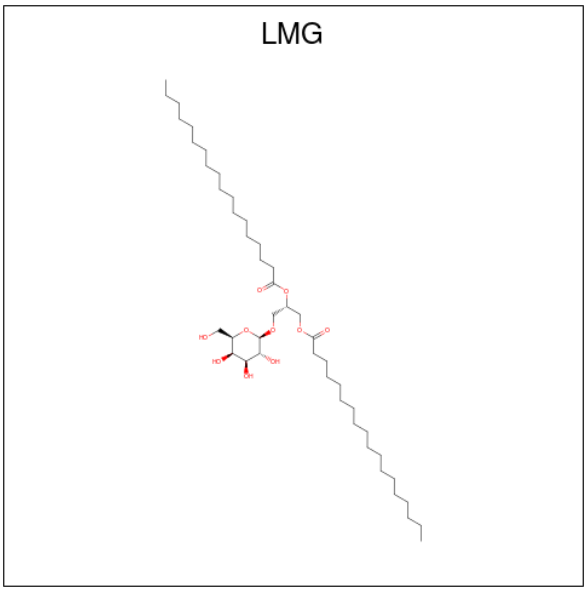
Mol	Chain	Residues	Atoms		AltConf
19	A	1	Total	C	0
			40	40	

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

- Molecule 20 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$).

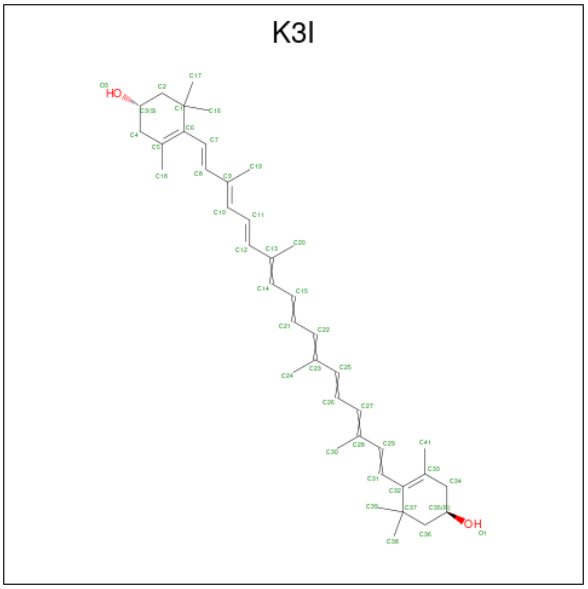


Mol	Chain	Residues	Atoms			AltConf
20	B	1	Total 55	C 45	O 10	0
20	L	1	Total 47	C 37	O 10	0

- Molecule 21 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
21	B	1	Total 1	Ca 1	0

- Molecule 22 is Zeaxanthin (CCD ID: K3I) (formula: $C_{40}H_{56}O_2$).



Mol	Chain	Residues	Atoms			AltConf
22	B	1	Total 42	C 40	O 2	0

- Molecule 23 is water.

Mol	Chain	Residues	Atoms		AltConf
23	A	344	Total 344	O 344	0
23	B	323	Total 323	O 323	0
23	C	86	Total 86	O 86	0
23	D	78	Total 78	O 78	0
23	E	31	Total 31	O 31	0
23	F	23	Total 23	O 23	0
23	I	6	Total 6	O 6	0
23	J	9	Total 9	O 9	0
23	K	4	Total 4	O 4	0
23	L	78	Total 78	O 78	0
23	M	9	Total 9	O 9	0

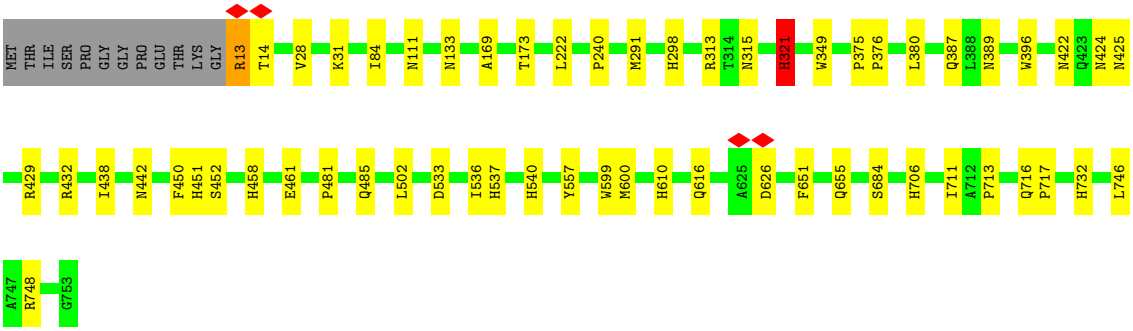
3 Residue-property plots (i)

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

• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

Chain A:

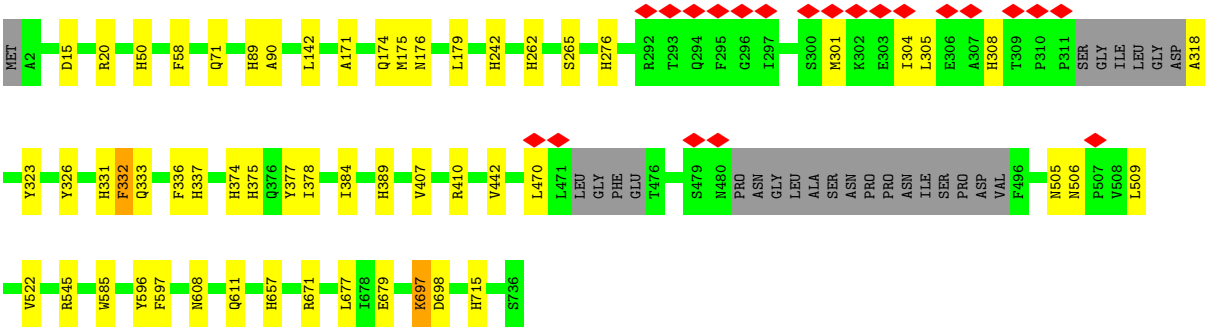




• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

Chain B:

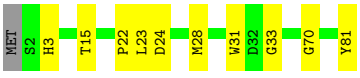




• Molecule 3: Photosystem I iron-sulfur center

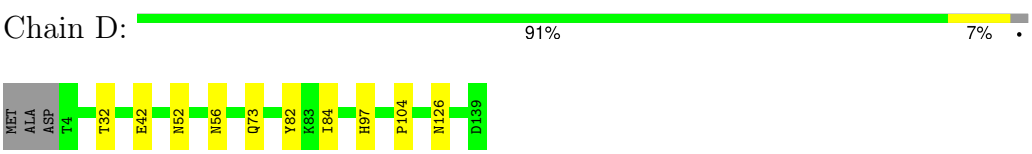
Chain C:





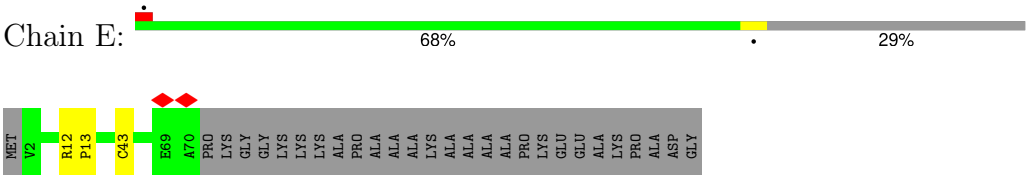
• Molecule 4: Photosystem I reaction center subunit II

Chain D:



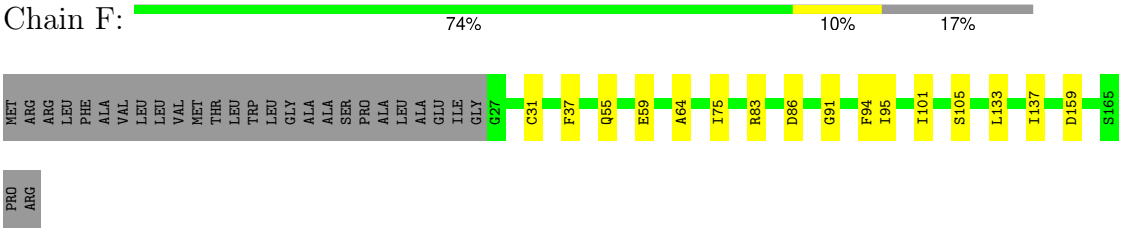
• Molecule 5: Photosystem I reaction center subunit IV

Chain E:



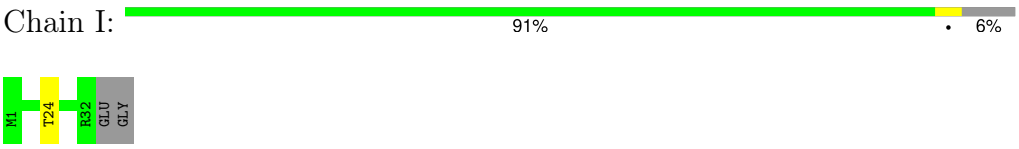
• Molecule 6: Photosystem I reaction center subunit III

Chain F:



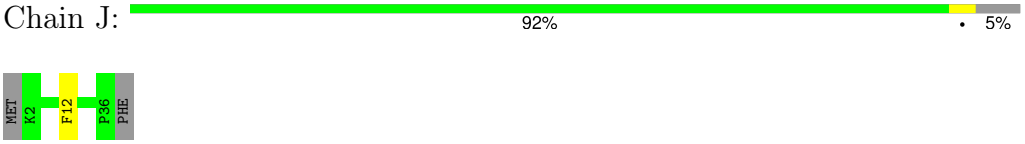
• Molecule 7: Photosystem I reaction center subunit VIII

Chain I:



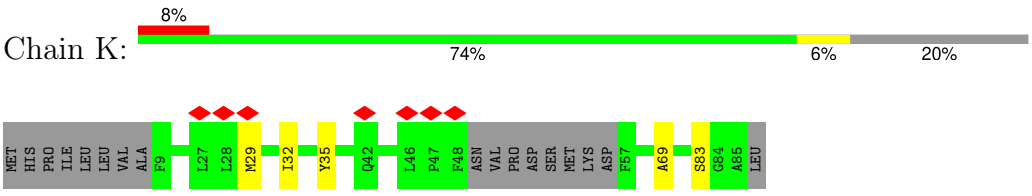
• Molecule 8: Photosystem I reaction center subunit IX

Chain J:



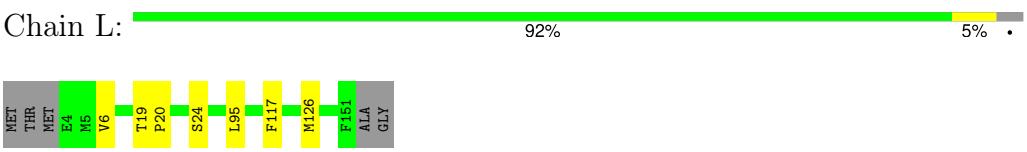
• Molecule 9: Photosystem I reaction center subunit PsaK

Chain K:



• Molecule 10: Photosystem I reaction center subunit XI

Chain L:



• Molecule 11: Photosystem I reaction center subunit XII

Chain M: 

There are no outlier residues recorded for this chain.

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	1035501	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	700	Depositor
Maximum defocus (nm)	1900	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.767	Depositor
Minimum map value	-0.895	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.014	Depositor
Recommended contour level	0.043	Depositor
Map size (Å)	350.28, 350.28, 350.28	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.70056, 0.70056, 0.70056	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: PQN, LHG, LMT, K3I, CL7, PHO, LMG, WVN, SF4, CA, G9R

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	0.49	7/6036 (0.1%)	0.64	2/8224 (0.0%)
2	B	0.49	12/5804 (0.2%)	0.62	1/7930 (0.0%)
3	C	0.31	0/609	0.72	0/824
4	D	0.25	0/1057	0.59	0/1426
5	E	0.20	0/550	0.52	0/745
6	F	0.28	0/1055	0.65	0/1432
7	I	0.30	0/247	0.60	0/336
8	J	0.22	0/304	0.58	0/412
9	K	0.29	0/519	0.70	0/706
10	L	0.31	0/1084	0.57	0/1475
11	M	0.29	0/222	0.47	0/301
All	All	0.43	19/17487 (0.1%)	0.63	3/23811 (0.0%)

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	657	HIS	C-O	-9.42	1.13	1.24
1	A	458	HIS	C-O	-9.33	1.13	1.24
1	A	450	PHE	C-O	-8.73	1.14	1.24
1	A	537	HIS	C-O	-8.09	1.14	1.24
2	B	697	LYS	C-O	-7.84	1.14	1.24
2	B	89	HIS	C-O	-7.33	1.16	1.23
1	A	452	SER	CA-C	7.10	1.62	1.52
2	B	657	HIS	CA-C	6.63	1.61	1.52
2	B	375	HIS	C-O	-6.58	1.16	1.24
2	B	50	HIS	C-O	-6.14	1.17	1.24
2	B	332	PHE	C-O	-6.09	1.17	1.24
2	B	715	HIS	C-N	-6.01	1.26	1.33
2	B	698	ASP	C-O	-5.93	1.16	1.24
1	A	298	HIS	C-O	-5.91	1.17	1.24
2	B	276	HIS	C-O	-5.78	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	715	HIS	C-O	-5.70	1.17	1.24
1	A	458	HIS	N-CA	5.24	1.52	1.46
2	B	715	HIS	N-CA	5.17	1.52	1.46
1	A	451	HIS	CA-C	5.06	1.60	1.52

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	458	HIS	CA-C-O	-6.39	114.06	120.90
1	A	321	HIS	N-CA-C	-5.69	99.91	109.07
2	B	671	ARG	N-CA-C	5.16	116.59	111.07

There are no chirality outliers.

There are no planarity outliers.

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	5839	0	5668	39	0
2	B	5598	0	5312	42	0
3	C	599	0	579	7	0
4	D	1037	0	1033	7	0
5	E	540	0	524	2	0
6	F	1034	0	1034	10	0
7	I	242	0	252	1	0
8	J	292	0	289	1	0
9	K	506	0	510	3	0
10	L	1059	0	1063	5	0
11	M	222	0	255	0	0
12	A	65	0	0	0	0
13	A	2417	0	2340	44	0
13	B	2011	0	1749	49	0
13	F	150	0	119	2	0
13	I	45	0	31	0	0
13	J	102	0	84	4	0
13	K	78	0	49	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	L	260	0	280	10	0
14	A	95	0	139	1	0
14	B	5	0	0	0	0
14	L	43	0	59	6	0
15	A	33	0	46	0	0
15	B	33	0	46	0	0
16	A	94	0	127	1	0
16	B	46	0	63	0	0
16	F	30	0	33	2	0
16	K	18	0	20	0	0
16	L	35	0	46	1	0
17	A	8	0	0	0	0
17	C	16	0	0	0	0
18	A	64	0	74	2	0
18	B	64	0	74	3	0
19	A	200	0	0	2	0
19	B	80	0	0	2	0
19	F	80	0	0	2	0
19	I	40	0	0	0	0
19	J	80	0	0	1	0
19	K	40	0	0	0	0
19	L	120	0	0	0	0
19	M	40	0	0	0	0
20	B	55	0	86	3	0
20	L	47	0	64	2	0
21	B	1	0	0	0	0
22	B	42	0	0	0	0
23	A	344	0	0	0	0
23	B	323	0	0	0	0
23	C	86	0	0	0	0
23	D	78	0	0	0	0
23	E	31	0	0	0	0
23	F	23	0	0	0	0
23	I	6	0	0	0	0
23	J	9	0	0	0	0
23	K	4	0	0	0	0
23	L	78	0	0	0	0
23	M	9	0	0	0	0
All	All	24496	0	22048	196	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 4.

All (196) 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)
1:A:13:ARG:CZ	1:A:14:THR:HB	1.88	1.02
1:A:313:ARG:NH1	1:A:321:HIS:ND1	2.21	0.88
13:B:806:CL7:H2	13:B:806:CL7:H101	1.66	0.78
4:D:42:GLU:H	4:D:73:GLN:HE22	1.33	0.75
4:D:52:ASN:H	4:D:56:ASN:HD21	1.38	0.70
13:B:841:CL7:HMD1	13:B:846:CL7:HAB	1.76	0.68
1:A:422:ASN:HD22	1:A:425:ASN:HD21	1.42	0.67
13:A:815:CL7:HAB	13:L:201:CL7:HHB	1.75	0.67
2:B:15:ASP:HB3	2:B:20:ARG:HB2	1.77	0.67
1:A:616:GLN:HE22	1:A:655:GLN:HE22	1.41	0.67
1:A:599:TRP:CH2	13:A:802:CL7:HAB	2.30	0.66
2:B:470:LEU:H	2:B:505:ASN:HD21	1.43	0.66
1:A:313:ARG:HH11	1:A:321:HIS:CE1	2.15	0.65
9:K:29:MET:HA	9:K:32:ILE:HG22	1.79	0.65
13:A:828:CL7:H8	13:A:828:CL7:H12C	1.77	0.65
2:B:332:PHE:CE2	2:B:336:PHE:CE2	2.86	0.64
13:B:829:CL7:HAB	13:B:834:CL7:HBC3	1.80	0.64
13:A:837:CL7:HED1	13:A:840:CL7:HAB	1.78	0.63
1:A:13:ARG:NH2	1:A:14:THR:HB	2.14	0.62
13:J:102:CL7:HBD	13:J:102:CL7:HBA2	1.80	0.62
13:B:833:CL7:HMA2	13:B:846:CL7:C4B	2.30	0.61
1:A:396:TRP:CD1	13:A:823:CL7:HAB	2.36	0.61
13:B:821:CL7:HBC1	20:B:827:LMG:H372	1.82	0.61
10:L:20:PRO:HB3	14:L:208:LHG:HC42	1.82	0.61
1:A:13:ARG:NH1	1:A:14:THR:HB	2.16	0.60
1:A:424:ASN:HD21	1:A:429:ARG:HH11	1.48	0.60
13:A:832:CL7:OBB	13:A:832:CL7:H111	2.02	0.59
3:C:3:HIS:HD2	3:C:70:GLY:H	1.48	0.59
2:B:308:HIS:HB3	13:B:843:CL7:HAB	1.84	0.58
6:F:159:ASP:H	16:F:203:LMT:H5B	1.68	0.58
13:A:835:CL7:HMB1	19:A:850:WVN:C03	2.33	0.58
2:B:174:GLN:HA	13:B:846:CL7:HBC1	1.87	0.57
2:B:304:ILE:HG12	13:B:841:CL7:HED1	1.87	0.57
7:I:24:THR:HG23	10:L:95:LEU:HD21	1.87	0.57
2:B:175:MET:HB3	13:B:846:CL7:HMD1	1.86	0.56
1:A:502:LEU:HB2	13:A:835:CL7:HED2	1.87	0.56
2:B:585:TRP:CH2	13:B:802:CL7:HAB	2.42	0.55
2:B:337:HIS:CD2	13:B:846:CL7:HBD	2.40	0.55
1:A:13:ARG:NH1	1:A:13:ARG:O	2.38	0.55
13:A:855:CL7:HMA2	14:L:208:LHG:H261	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:832:CL7:H172	6:F:105:SER:HA	1.89	0.55
13:B:806:CL7:H161	13:B:815:CL7:H201	1.90	0.54
13:B:833:CL7:HMA2	13:B:846:CL7:NB	2.21	0.54
2:B:175:MET:CB	13:B:846:CL7:HMD1	2.38	0.54
13:A:814:CL7:H2	13:L:205:CL7:H43C	1.90	0.54
13:B:841:CL7:HMD1	13:B:846:CL7:CAB	2.38	0.53
1:A:442:ASN:HD22	2:B:677:LEU:HD11	1.74	0.52
1:A:111:ASN:HD21	1:A:133:ASN:HD22	1.56	0.52
1:A:28:VAL:HA	1:A:31:LYS:HE2	1.90	0.52
13:A:815:CL7:HAB	13:L:201:CL7:CHB	2.39	0.52
1:A:599:TRP:HH2	13:A:802:CL7:HAB	1.74	0.52
13:B:810:CL7:O2A	19:B:847:WVN:C09	2.58	0.51
2:B:545:ARG:HH22	4:D:126:ASN:ND2	2.09	0.51
2:B:597:PHE:HB2	13:B:832:CL7:HMC1	1.93	0.51
2:B:326:TYR:HD1	2:B:332:PHE:CE2	2.29	0.51
13:B:817:CL7:H12C	13:B:831:CL7:HBA1	1.92	0.51
1:A:600:MET:HG2	13:A:843:CL7:HBC1	1.94	0.50
13:A:819:CL7:H52C	13:B:818:CL7:H71C	1.93	0.50
2:B:337:HIS:HD2	13:B:846:CL7:CAA	2.25	0.50
1:A:684:SER:HB3	1:A:732:HIS:HB2	1.95	0.49
18:A:849:PHO:H3A	18:A:849:PHO:CGA	2.43	0.49
1:A:616:GLN:HE22	1:A:655:GLN:NE2	2.10	0.48
13:A:817:CL7:H191	13:L:205:CL7:H72C	1.95	0.48
13:B:804:CL7:H43C	20:B:827:LMG:H161	1.96	0.48
10:L:24:SER:HB3	14:L:208:LHG:HC41	1.96	0.48
1:A:716:GLN:HE22	5:E:43:CYS:H	1.61	0.48
13:A:803:CL7:H43C	13:A:825:CL7:H121	1.95	0.48
1:A:349:TRP:HB3	13:A:805:CL7:HAC1	1.96	0.48
16:A:833:LMT:H2'	16:A:833:LMT:H12	1.66	0.48
1:A:713:PRO:HG2	1:A:717:PRO:HD3	1.95	0.48
4:D:32:THR:O	4:D:82:TYR:HA	2.14	0.48
13:B:817:CL7:HED1	13:B:832:CL7:HMB2	1.94	0.48
13:A:803:CL7:H8	8:J:12:PHE:HA	1.96	0.47
6:F:75:ILE:HG23	6:F:86:ASP:HB3	1.96	0.47
2:B:179:LEU:HD22	13:B:846:CL7:OBD	2.15	0.47
2:B:262:HIS:CD2	2:B:265:SER:H	2.31	0.47
2:B:442:VAL:HG21	13:J:102:CL7:HAC2	1.97	0.47
13:L:204:CL7:H3A	13:L:204:CL7:HBA1	1.68	0.47
13:A:819:CL7:H111	13:B:818:CL7:H12C	1.96	0.47
13:B:838:CL7:HBA1	13:B:838:CL7:H3A	1.55	0.47
6:F:94:PHE:HB2	19:F:204:WVN:C21	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:171:ALA:O	2:B:175:MET:HG3	2.15	0.46
2:B:301:MET:SD	13:B:846:CL7:CMC	3.03	0.46
18:B:801:PHO:HBB1	18:B:801:PHO:HMB1	1.96	0.46
13:A:814:CL7:H13	13:A:814:CL7:H102	1.50	0.46
13:B:822:CL7:H192	13:B:822:CL7:H162	1.72	0.46
9:K:29:MET:HG3	9:K:69:ALA:HA	1.96	0.46
13:B:806:CL7:HAA2	13:B:806:CL7:HBD	1.98	0.46
2:B:679:GLU:HG2	3:C:81:TYR:HE2	1.81	0.46
10:L:117:PHE:HE2	10:L:126:MET:HE2	1.81	0.46
13:A:812:CL7:H61C	13:A:812:CL7:H41C	1.73	0.46
2:B:331:HIS:HD2	2:B:389:HIS:ND1	2.13	0.46
2:B:58:PHE:HD2	2:B:142:LEU:HD22	1.81	0.46
13:B:821:CL7:H41C	13:B:821:CL7:H61C	1.76	0.46
14:A:821:LHG:H182	14:A:821:LHG:H332	1.98	0.45
2:B:506:ASN:ND2	2:B:509:LEU:HB2	2.31	0.45
18:B:801:PHO:HBB1	18:B:801:PHO:CMB	2.47	0.45
3:C:24:ASP:OD1	4:D:104:PRO:HG3	2.17	0.45
1:A:438:ILE:HG13	1:A:557:TYR:HE1	1.80	0.45
13:A:817:CL7:H201	13:L:205:CL7:H102	1.98	0.45
1:A:389:ASN:HD21	1:A:746:LEU:HD11	1.82	0.45
13:A:808:CL7:H143	13:A:808:CL7:H161	1.81	0.45
16:L:206:LMT:H21	13:L:207:CL7:HBA2	1.98	0.45
2:B:305:LEU:HD21	13:B:833:CL7:HED1	1.99	0.45
13:A:832:CL7:CGA	13:A:832:CL7:C1A	2.94	0.45
6:F:31:CYS:HB3	6:F:37:PHE:CG	2.51	0.45
13:A:806:CL7:H61C	13:A:806:CL7:H102	1.74	0.45
6:F:64:ALA:HA	6:F:83:ARG:HH12	1.83	0.45
10:L:6:VAL:HG13	10:L:19:THR:HG22	1.97	0.45
13:B:805:CL7:H102	13:B:805:CL7:H61C	1.72	0.44
16:F:203:LMT:H1B	16:F:203:LMT:H3'	1.70	0.44
2:B:262:HIS:HD2	2:B:265:SER:H	1.65	0.44
13:B:828:CL7:H143	13:B:828:CL7:H161	1.89	0.44
13:A:823:CL7:H192	13:A:823:CL7:H162	1.77	0.44
3:C:3:HIS:CD2	3:C:70:GLY:H	2.32	0.44
6:F:55:GLN:O	6:F:59:GLU:HG3	2.17	0.44
18:B:801:PHO:H91	18:B:801:PHO:H111	1.84	0.44
1:A:13:ARG:HH11	1:A:315:ASN:HD21	1.64	0.44
13:A:827:CL7:H142	13:A:827:CL7:H71C	2.00	0.44
6:F:101:ILE:HG12	13:F:206:CL7:C1B	2.48	0.44
13:A:806:CL7:H192	13:A:806:CL7:H162	1.88	0.44
2:B:374:HIS:O	2:B:378:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:22:PRO:HG2	3:C:23:LEU:HD12	2.00	0.44
1:A:380:LEU:HG	1:A:387:GLN:NE2	2.33	0.44
1:A:424:ASN:HD22	1:A:432:ARG:HH12	1.65	0.44
13:B:825:CL7:H51C	13:B:825:CL7:H11C	1.68	0.44
2:B:71:GLN:NE2	2:B:90:ALA:H	2.15	0.43
4:D:32:THR:HA	4:D:56:ASN:O	2.18	0.43
4:D:84:ILE:HB	4:D:97:HIS:HB3	2.00	0.43
2:B:305:LEU:HD12	2:B:323:TYR:HB2	2.00	0.43
13:A:808:CL7:H93C	13:A:808:CL7:H111	1.89	0.43
13:A:840:CL7:H61C	13:A:840:CL7:H41C	1.79	0.43
1:A:533:ASP:HA	1:A:536:ILE:HG22	2.00	0.43
13:A:817:CL7:H61C	13:A:817:CL7:H41C	1.50	0.43
2:B:318:ALA:HA	2:B:410:ARG:HH12	1.83	0.43
2:B:608:ASN:ND2	2:B:611:GLN:HB2	2.33	0.43
13:J:102:CL7:H11C	13:J:102:CL7:H52C	1.61	0.43
1:A:169:ALA:O	1:A:173:THR:HG23	2.19	0.43
1:A:540:HIS:HE1	1:A:610:HIS:ND1	2.17	0.43
13:A:809:CL7:H201	19:J:101:WVN:C02	2.49	0.43
13:L:201:CL7:H62C	13:L:201:CL7:H2	1.77	0.43
2:B:242:HIS:CD2	2:B:262:HIS:HE1	2.37	0.43
13:B:833:CL7:HMD3	13:B:840:CL7:HAC1	2.01	0.43
18:A:849:PHO:H101	19:B:848:WVN:C35	2.49	0.42
13:B:816:CL7:HED2	13:B:824:CL7:HMA1	1.99	0.42
1:A:651:PHE:O	1:A:655:GLN:HB2	2.19	0.42
2:B:407:VAL:HG11	13:B:841:CL7:C2C	2.49	0.42
1:A:706:HIS:HB3	1:A:711:ILE:HG13	2.02	0.42
19:A:853:WVN:C09	19:A:853:WVN:C07	2.93	0.42
13:B:819:CL7:H142	13:B:819:CL7:H112	1.78	0.42
1:A:240:PRO:HB2	13:A:830:CL7:HMD1	2.01	0.42
13:A:819:CL7:H61C	13:A:819:CL7:H41C	1.87	0.42
1:A:481:PRO:O	1:A:485:GLN:HG3	2.18	0.42
13:A:804:CL7:H52C	13:A:809:CL7:H12C	2.02	0.42
13:A:814:CL7:H72C	14:L:208:LHG:H181	2.01	0.42
13:A:830:CL7:H61C	13:A:830:CL7:H41C	1.59	0.42
6:F:133:LEU:O	6:F:137:ILE:HG13	2.20	0.42
1:A:655:GLN:HG2	1:A:748:ARG:CZ	2.50	0.42
13:A:803:CL7:H152	13:A:803:CL7:H112	1.80	0.42
2:B:585:TRP:HH2	13:B:802:CL7:HAB	1.84	0.42
1:A:461:GLU:HG3	13:L:201:CL7:HAC2	2.02	0.41
13:A:824:CL7:H122	13:A:824:CL7:H162	1.86	0.41
13:B:828:CL7:H2	13:B:828:CL7:H61C	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:31:TRP:CE2	3:C:33:GLY:HA3	2.56	0.41
20:L:203:LMG:H192	20:L:203:LMG:H161	1.77	0.41
13:B:823:CL7:H62C	13:B:823:CL7:H41C	1.82	0.41
5:E:12:ARG:HA	5:E:13:PRO:HD3	1.94	0.41
2:B:384:ILE:HD13	2:B:384:ILE:HA	1.91	0.41
3:C:15:THR:HG22	3:C:28:MET:HG3	2.02	0.41
2:B:326:TYR:CZ	2:B:333:GLN:HG2	2.56	0.41
13:B:808:CL7:H193	13:B:808:CL7:H162	1.88	0.41
13:A:808:CL7:H102	13:A:827:CL7:H141	2.03	0.41
2:B:326:TYR:CE2	2:B:333:GLN:HG2	2.56	0.41
13:L:207:CL7:HBA2	13:L:207:CL7:H3A	1.91	0.41
1:A:375:PRO:HA	1:A:376:PRO:HD3	1.97	0.41
13:A:841:CL7:HBA2	13:A:841:CL7:HBD	2.03	0.41
14:L:208:LHG:H242	14:L:208:LHG:H272	1.79	0.41
13:A:803:CL7:HBA2	13:A:803:CL7:H3A	1.82	0.41
2:B:179:LEU:HD13	13:B:846:CL7:HMD2	2.03	0.41
2:B:301:MET:HG3	13:B:833:CL7:HED3	2.02	0.41
9:K:32:ILE:HG13	9:K:35:TYR:CE1	2.56	0.41
20:L:203:LMG:HC71	20:L:203:LMG:HC2	1.68	0.41
13:B:826:CL7:HBA2	19:F:204:WVN:C38	2.50	0.41
14:L:208:LHG:H202	14:L:208:LHG:H172	1.79	0.41
2:B:377:TYR:CD2	13:B:814:CL7:HAB	2.56	0.40
2:B:522:VAL:HG21	2:B:596:TYR:HB2	2.03	0.40
1:A:84:ILE:HG21	13:A:805:CL7:H8	2.02	0.40
13:B:802:CL7:H122	13:B:802:CL7:H8	1.94	0.40
13:F:201:CL7:H92C	13:F:201:CL7:H62C	1.91	0.40
1:A:222:LEU:HD12	1:A:291:MET:HE2	2.03	0.40
2:B:176:ASN:HD21	13:B:833:CL7:C4A	2.35	0.40
13:B:803:CL7:H102	13:B:803:CL7:H62C	1.84	0.40
13:B:822:CL7:H92C	13:B:822:CL7:H62C	1.86	0.40
20:B:827:LMG:H181	20:B:827:LMG:H151	1.89	0.40
6:F:91:GLY:O	6:F:95:ILE:HG12	2.22	0.40
13:J:102:CL7:H92C	13:J:102:CL7:H61C	1.79	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	739/753 (98%)	720 (97%)	18 (2%)	1 (0%)	48 38
2	B	702/736 (95%)	685 (98%)	17 (2%)	0	100 100
3	C	78/81 (96%)	76 (97%)	2 (3%)	0	100 100
4	D	134/139 (96%)	129 (96%)	5 (4%)	0	100 100
5	E	67/97 (69%)	65 (97%)	2 (3%)	0	100 100
6	F	137/167 (82%)	134 (98%)	3 (2%)	0	100 100
7	I	30/34 (88%)	30 (100%)	0	0	100 100
8	J	33/37 (89%)	33 (100%)	0	0	100 100
9	K	65/86 (76%)	61 (94%)	3 (5%)	1 (2%)	8 2
10	L	146/153 (95%)	144 (99%)	2 (1%)	0	100 100
11	M	29/31 (94%)	29 (100%)	0	0	100 100
All	All	2160/2314 (93%)	2106 (98%)	52 (2%)	2 (0%)	49 38

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	626	ASP
9	K	83	SER

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	597/606 (98%)	595 (100%)	2 (0%)	86 84
2	B	558/593 (94%)	557 (100%)	1 (0%)	87 86
3	C	68/69 (99%)	68 (100%)	0	100 100
4	D	111/113 (98%)	111 (100%)	0	100 100
5	E	58/73 (80%)	58 (100%)	0	100 100
6	F	110/131 (84%)	110 (100%)	0	100 100
7	I	26/27 (96%)	26 (100%)	0	100 100
8	J	31/33 (94%)	31 (100%)	0	100 100
9	K	49/68 (72%)	49 (100%)	0	100 100
10	L	109/113 (96%)	109 (100%)	0	100 100
11	M	25/25 (100%)	25 (100%)	0	100 100
All	All	1742/1851 (94%)	1739 (100%)	3 (0%)	85 86

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ARG
1	A	321	HIS
2	B	697	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (64) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	53	HIS
1	A	57	HIS
1	A	94	HIS
1	A	111	ASN
1	A	116	HIS
1	A	139	GLN
1	A	210	ASN
1	A	219	HIS
1	A	259	GLN
1	A	285	GLN
1	A	298	HIS
1	A	338	HIS
1	A	356	ASN
1	A	387	GLN
1	A	389	ASN

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Mol	Chain	Res	Type
1	A	394	HIS
1	A	422	ASN
1	A	424	ASN
1	A	442	ASN
1	A	480	GLN
1	A	489	ASN
1	A	491	GLN
1	A	493	ASN
1	A	525	GLN
1	A	540	HIS
1	A	655	GLN
1	A	661	ASN
1	A	696	GLN
1	A	716	GLN
2	B	10	GLN
2	B	29	HIS
2	B	34	HIS
2	B	71	GLN
2	B	95	HIS
2	B	122	HIS
2	B	176	ASN
2	B	206	HIS
2	B	236	ASN
2	B	242	HIS
2	B	262	HIS
2	B	331	HIS
2	B	333	GLN
2	B	375	HIS
2	B	421	HIS
2	B	461	GLN
2	B	505	ASN
2	B	515	GLN
2	B	598	ASN
2	B	608	ASN
2	B	611	GLN
2	B	615	ASN
3	C	3	HIS
4	D	39	GLN
4	D	56	ASN
4	D	73	GLN
4	D	112	GLN
4	D	126	ASN

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Mol	Chain	Res	Type
4	D	136	ASN
5	E	63	HIS
6	F	55	GLN
6	F	107	ASN
10	L	32	ASN
10	L	33	ASN
10	L	44	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 132 ligands modelled in this entry, 1 is monoatomic - leaving 131 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
13	CL7	B	823	2	59,63,73	2.49	20 (33%)	68,101,113	2.51	26 (38%)
17	SF4	A	847	2,1	0,12,12	-	-	-		
19	WVN	F	205	-	40,41,41	4.09	21 (52%)	51,56,56	2.50	16 (31%)
13	CL7	A	817	1	69,73,73	2.30	20 (28%)	80,113,113	2.32	25 (31%)
13	CL7	A	809	13,1	69,73,73	2.31	22 (31%)	80,113,113	2.49	28 (35%)
13	CL7	B	829	-	49,53,73	2.65	20 (40%)	56,89,113	2.78	24 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CL7	K	103	9	42,45,73	2.73	21 (50%)	51,78,113	2.62	20 (39%)
13	CL7	B	824	-	49,53,73	2.66	21 (42%)	56,89,113	2.76	22 (39%)
15	PQN	B	820	-	34,34,34	1.62	2 (5%)	43,45,45	1.02	4 (9%)
13	CL7	B	833	-	49,53,73	2.67	21 (42%)	56,89,113	2.58	23 (41%)
19	WVN	J	104	-	40,41,41	4.02	21 (52%)	51,56,56	2.42	18 (35%)
13	CL7	A	819	23	69,73,73	2.29	21 (30%)	80,113,113	2.28	28 (35%)
19	WVN	A	852	-	40,41,41	3.87	20 (50%)	51,56,56	2.57	19 (37%)
13	CL7	A	829	1	54,58,73	2.62	22 (40%)	62,95,113	2.71	24 (38%)
13	CL7	A	812	1	69,73,73	2.30	22 (31%)	80,113,113	2.29	25 (31%)
13	CL7	J	102	2	64,68,73	2.32	20 (31%)	74,107,113	2.71	28 (37%)
13	CL7	L	204	10	69,73,73	2.30	21 (30%)	80,113,113	2.37	24 (30%)
13	CL7	B	806	2	69,73,73	2.25	22 (31%)	80,113,113	2.43	28 (35%)
13	CL7	B	814	2	60,64,73	2.46	20 (33%)	69,102,113	2.49	25 (36%)
16	LMT	A	844	-	24,24,36	0.50	0	29,29,47	0.81	2 (6%)
13	CL7	A	837	1	69,73,73	2.25	21 (30%)	80,113,113	2.33	23 (28%)
13	CL7	B	826	2	69,73,73	2.31	21 (30%)	80,113,113	2.34	25 (31%)
13	CL7	B	805	2	69,73,73	2.26	21 (30%)	80,113,113	2.32	25 (31%)
16	LMT	F	203	-	31,31,36	0.58	0	42,42,47	1.23	4 (9%)
13	CL7	F	201	23	64,68,73	2.42	21 (32%)	74,107,113	2.43	24 (32%)
13	CL7	A	805	1	69,73,73	2.30	22 (31%)	80,113,113	2.33	27 (33%)
13	CL7	A	814	1	64,68,73	2.40	22 (34%)	74,107,113	2.40	23 (31%)
13	CL7	B	830	2	49,53,73	2.65	21 (42%)	56,89,113	2.68	21 (37%)
13	CL7	B	817	2	54,58,73	2.60	22 (40%)	62,95,113	2.60	22 (35%)
14	LHG	B	844	13	4,4,48	1.75	2 (50%)	6,6,54	1.33	1 (16%)
19	WVN	M	101	-	40,41,41	3.92	22 (55%)	51,56,56	2.60	20 (39%)
13	CL7	A	815	1	69,73,73	2.34	22 (31%)	80,113,113	2.22	23 (28%)
13	CL7	B	837	2	54,58,73	2.62	21 (38%)	62,95,113	2.62	24 (38%)
13	CL7	A	839	23	69,73,73	2.32	22 (31%)	80,113,113	3.80	26 (32%)
13	CL7	B	810	2	49,53,73	2.62	20 (40%)	56,89,113	2.68	21 (37%)
22	K3I	B	845	-	43,43,43	3.98	22 (51%)	56,60,60	2.04	15 (26%)
13	CL7	A	807	1	69,73,73	2.28	20 (28%)	80,113,113	2.36	24 (30%)
13	CL7	B	832	2	54,58,73	2.63	23 (42%)	62,95,113	2.69	25 (40%)
13	CL7	B	838	-	49,53,73	2.67	20 (40%)	56,89,113	2.58	20 (35%)
13	CL7	B	803	2	69,73,73	2.28	21 (30%)	80,113,113	2.28	24 (30%)
13	CL7	B	825	2	69,73,73	2.31	22 (31%)	80,113,113	2.33	22 (27%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CL7	A	804	13,1	59,63,73	2.51	21 (35%)	68,101,113	2.55	25 (36%)
15	PQN	A	826	-	34,34,34	1.62	2 (5%)	43,45,45	1.13	4 (9%)
13	CL7	A	824	1	69,73,73	2.31	20 (28%)	80,113,113	2.33	22 (27%)
14	LHG	A	820	-	48,48,48	0.93	2 (4%)	51,54,54	1.08	3 (5%)
19	WVN	B	848	-	40,41,41	3.84	21 (52%)	51,56,56	2.48	16 (31%)
13	CL7	L	207	23	69,73,73	2.32	20 (28%)	80,113,113	2.40	24 (30%)
13	CL7	A	825	1	69,73,73	2.31	20 (28%)	80,113,113	2.32	24 (30%)
13	CL7	A	832	1	69,73,73	2.28	23 (33%)	80,113,113	2.30	25 (31%)
19	WVN	I	101	-	40,41,41	3.95	21 (52%)	51,56,56	2.43	20 (39%)
16	LMT	A	833	-	36,36,36	0.49	0	47,47,47	1.45	8 (17%)
13	CL7	A	838	1	64,68,73	2.44	23 (35%)	74,107,113	2.48	21 (28%)
13	CL7	A	848	1	49,53,73	2.66	22 (44%)	56,89,113	4.18	21 (37%)
13	CL7	L	205	10	69,73,73	2.29	21 (30%)	80,113,113	2.40	23 (28%)
17	SF4	C	102	3	0,12,12	-	-	-		
13	CL7	A	842	23	64,68,73	2.39	21 (32%)	74,107,113	2.41	26 (35%)
18	PHO	A	849	-	58,69,69	0.92	4 (6%)	55,99,99	1.17	3 (5%)
13	CL7	A	806	1	69,73,73	2.32	20 (28%)	80,113,113	2.37	26 (32%)
16	LMT	K	104	-	18,18,36	0.52	0	23,23,47	1.89	4 (17%)
16	LMT	L	206	-	36,36,36	0.58	0	47,47,47	0.65	0
13	CL7	A	845	1	54,58,73	2.63	21 (38%)	62,95,113	2.65	22 (35%)
13	CL7	B	846	-	45,49,73	2.77	20 (44%)	51,84,113	2.80	23 (45%)
13	CL7	B	821	2	58,62,73	2.49	21 (36%)	66,99,113	2.55	26 (39%)
19	WVN	L	202	-	40,41,41	3.90	21 (52%)	51,56,56	2.52	20 (39%)
19	WVN	B	847	-	40,41,41	3.96	20 (50%)	51,56,56	2.54	18 (35%)
13	CL7	B	816	2	54,58,73	2.63	22 (40%)	62,95,113	2.62	23 (37%)
13	CL7	B	834	-	49,53,73	2.68	21 (42%)	56,89,113	2.65	20 (35%)
13	CL7	A	816	1	54,58,73	2.64	21 (38%)	62,95,113	2.60	25 (40%)
19	WVN	L	209	-	40,41,41	3.82	21 (52%)	51,56,56	2.25	20 (39%)
19	WVN	K	101	-	40,41,41	4.00	21 (52%)	51,56,56	2.42	18 (35%)
13	CL7	L	201	1	69,73,73	2.28	21 (30%)	80,113,113	2.33	27 (33%)
13	CL7	I	102	-	49,53,73	2.63	20 (40%)	56,89,113	2.62	21 (37%)
13	CL7	A	830	1	69,73,73	2.32	20 (28%)	80,113,113	2.37	23 (28%)
13	CL7	A	818	1	59,63,73	2.48	21 (35%)	68,101,113	2.52	23 (33%)
13	CL7	B	843	14	49,53,73	2.62	21 (42%)	56,89,113	2.62	22 (39%)
13	CL7	A	841	1	64,68,73	2.38	21 (32%)	74,107,113	2.46	23 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CL7	B	811	2	45,49,73	2.78	22 (48%)	51,84,113	2.64	22 (43%)
19	WVN	A	851	-	40,41,41	4.01	21 (52%)	51,56,56	2.72	21 (41%)
12	G9R	A	801	1	69,73,73	2.22	22 (31%)	82,113,113	2.33	24 (29%)
20	LMG	B	827	-	55,55,55	1.51	8 (14%)	63,63,63	1.03	1 (1%)
13	CL7	F	202	6	49,53,73	2.67	22 (44%)	56,89,113	2.64	19 (33%)
13	CL7	B	822	2	69,73,73	2.27	22 (31%)	80,113,113	2.43	28 (35%)
13	CL7	B	808	2	69,73,73	2.27	22 (31%)	80,113,113	2.27	22 (27%)
13	CL7	A	835	1	59,63,73	2.49	22 (37%)	68,101,113	2.54	24 (35%)
13	CL7	A	823	1	69,73,73	2.31	21 (30%)	80,113,113	2.47	27 (33%)
13	CL7	A	808	1	69,73,73	2.32	22 (31%)	80,113,113	2.32	25 (31%)
16	LMT	B	836	-	22,22,36	0.49	0	27,27,47	0.72	0
13	CL7	B	819	2	69,73,73	2.32	21 (30%)	80,113,113	2.38	22 (27%)
13	CL7	J	103	8	44,50,73	2.69	21 (47%)	53,85,113	2.55	17 (32%)
19	WVN	A	850	-	40,41,41	3.99	20 (50%)	51,56,56	2.39	19 (37%)
14	LHG	L	208	-	42,42,48	0.99	2 (4%)	45,48,54	1.00	2 (4%)
13	CL7	A	811	1	69,73,73	2.30	22 (31%)	80,113,113	2.25	23 (28%)
17	SF4	C	101	3	0,12,12	-	-	-		
13	CL7	A	855	14	45,49,73	2.77	21 (46%)	51,84,113	2.62	20 (39%)
13	CL7	A	803	1	69,73,73	2.33	22 (31%)	80,113,113	2.36	24 (30%)
13	CL7	A	822	1	69,73,73	2.32	23 (33%)	80,113,113	2.26	24 (30%)
13	CL7	B	815	2	69,73,73	2.30	20 (28%)	80,113,113	2.31	30 (37%)
13	CL7	B	842	-	27,35,73	3.36	14 (51%)	29,60,113	2.75	14 (48%)
13	CL7	A	831	23	49,53,73	2.66	21 (42%)	56,89,113	2.57	18 (32%)
13	CL7	A	840	1	69,73,73	2.33	23 (33%)	80,113,113	2.32	25 (31%)
13	CL7	B	828	2	69,73,73	2.29	21 (30%)	80,113,113	2.36	24 (30%)
19	WVN	A	853	-	40,41,41	3.92	21 (52%)	51,56,56	2.47	20 (39%)
13	CL7	F	206	23	49,53,73	2.64	22 (44%)	56,89,113	2.65	19 (33%)
13	CL7	B	812	2	64,68,73	2.39	23 (35%)	74,107,113	2.45	22 (29%)
13	CL7	B	818	23	69,73,73	2.29	22 (31%)	80,113,113	2.32	24 (30%)
13	CL7	A	836	1	64,68,73	2.39	21 (32%)	74,107,113	2.38	27 (36%)
13	CL7	B	813	2	45,49,73	2.75	20 (44%)	51,84,113	2.65	20 (39%)
19	WVN	L	210	-	40,41,41	3.98	21 (52%)	51,56,56	2.81	22 (43%)
13	CL7	B	831	23	54,58,73	2.61	21 (38%)	62,95,113	2.73	26 (41%)
13	CL7	B	809	2	45,49,73	2.78	21 (46%)	51,84,113	2.75	20 (39%)
14	LHG	A	821	13	45,45,48	0.96	2 (4%)	48,51,54	1.05	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
19	WVN	J	101	-	40,41,41	4.02	21 (52%)	51,56,56	2.36	22 (43%)
16	LMT	A	834	-	36,36,36	0.54	0	47,47,47	0.72	0
13	CL7	A	810	23	45,49,73	2.76	21 (46%)	51,84,113	2.85	22 (43%)
19	WVN	F	204	-	40,41,41	3.98	21 (52%)	51,56,56	2.61	20 (39%)
16	LMT	B	835	-	24,24,36	0.51	0	29,29,47	0.56	0
13	CL7	A	846	1	49,53,73	2.62	20 (40%)	56,89,113	2.66	21 (37%)
13	CL7	B	802	23	69,73,73	2.30	20 (28%)	80,113,113	2.38	28 (35%)
19	WVN	A	854	-	40,41,41	3.89	21 (52%)	51,56,56	2.31	14 (27%)
13	CL7	A	802	23	69,73,73	2.30	20 (28%)	80,113,113	2.31	23 (28%)
13	CL7	B	841	2	49,53,73	2.62	20 (40%)	56,89,113	2.94	24 (42%)
18	PHO	B	801	-	58,69,69	0.77	3 (5%)	55,99,99	1.24	3 (5%)
13	CL7	B	804	2	69,73,73	2.31	21 (30%)	80,113,113	2.30	26 (32%)
13	CL7	B	807	2	54,58,73	2.57	20 (37%)	62,95,113	2.51	22 (35%)
13	CL7	A	827	1	64,68,73	2.42	23 (35%)	74,107,113	2.44	23 (31%)
13	CL7	A	843	23	54,58,73	2.58	21 (38%)	62,95,113	2.67	28 (45%)
13	CL7	B	840	2	49,53,73	2.66	21 (42%)	56,89,113	2.63	22 (39%)
13	CL7	A	828	1	64,68,73	2.40	21 (32%)	74,107,113	2.47	25 (33%)
20	LMG	L	203	-	47,47,55	1.42	7 (14%)	55,55,63	1.37	6 (10%)
13	CL7	K	102	23	45,49,73	2.78	21 (46%)	51,84,113	2.62	18 (35%)
13	CL7	A	813	1	54,58,73	2.57	21 (38%)	62,95,113	2.67	26 (41%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CL7	B	823	2	2/2/13/20	7/27/103/115	-
19	WVN	F	205	-	-	11/29/63/63	0/2/2/2
17	SF4	A	847	2,1	-	-	0/6/5/5
13	CL7	A	817	1	2/2/15/20	15/39/115/115	-
13	CL7	A	809	13,1	2/2/15/20	15/39/115/115	-
13	CL7	B	829	-	1/1/11/20	9/15/91/115	-
13	CL7	K	103	9	2/2/8/20	2/4/76/115	-
13	CL7	B	824	-	1/1/11/20	5/15/91/115	-
15	PQN	B	820	-	-	2/23/43/43	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CL7	B	833	-	2/2/11/20	4/15/91/115	-
19	WVN	J	104	-	-	5/29/63/63	0/2/2/2
13	CL7	A	819	23	2/2/15/20	6/39/115/115	-
19	WVN	A	852	-	-	4/29/63/63	0/2/2/2
13	CL7	A	829	1	2/2/12/20	9/21/97/115	-
13	CL7	A	812	1	2/2/15/20	13/39/115/115	-
13	CL7	J	102	2	2/2/14/20	16/33/109/115	-
13	CL7	L	204	10	2/2/15/20	17/39/115/115	-
13	CL7	B	806	2	2/2/15/20	12/39/115/115	-
13	CL7	B	814	2	2/2/13/20	8/29/105/115	-
16	LMT	A	844	-	-	7/15/35/61	0/1/1/2
13	CL7	A	837	1	2/2/15/20	7/39/115/115	-
13	CL7	B	826	2	2/2/15/20	11/39/115/115	-
13	CL7	B	805	2	2/2/15/20	8/39/115/115	-
16	LMT	F	203	-	-	7/16/56/61	0/2/2/2
13	CL7	F	201	23	2/2/14/20	11/33/109/115	-
13	CL7	A	805	1	1/1/15/20	13/39/115/115	-
13	CL7	A	814	1	2/2/14/20	9/33/109/115	-
13	CL7	B	830	2	2/2/11/20	6/15/91/115	-
13	CL7	B	817	2	2/2/12/20	6/21/97/115	-
19	WVN	M	101	-	-	5/29/63/63	0/2/2/2
13	CL7	A	815	1	2/2/15/20	13/39/115/115	-
13	CL7	B	837	2	2/2/12/20	7/21/97/115	-
13	CL7	A	839	23	2/2/15/20	12/39/115/115	-
13	CL7	B	810	2	2/2/11/20	4/15/91/115	-
22	K3I	B	845	-	1/1/12/26	4/29/67/67	0/2/2/2
13	CL7	A	807	1	2/2/15/20	15/39/115/115	-
13	CL7	B	832	2	2/2/12/20	9/21/97/115	-
13	CL7	B	838	-	2/2/11/20	11/15/91/115	-
13	CL7	B	803	2	2/2/15/20	6/39/115/115	-
13	CL7	B	825	2	2/2/15/20	18/39/115/115	-
13	CL7	A	804	13,1	2/2/13/20	9/27/103/115	-
15	PQN	A	826	-	-	5/23/43/43	0/2/2/2
13	CL7	A	824	1	2/2/15/20	9/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	LHG	A	820	-	-	29/53/53/53	-
19	WVN	B	848	-	-	1/29/63/63	0/2/2/2
13	CL7	L	207	23	2/2/15/20	12/39/115/115	-
13	CL7	A	825	1	2/2/15/20	13/39/115/115	-
13	CL7	A	832	1	2/2/15/20	13/39/115/115	-
19	WVN	I	101	-	-	8/29/63/63	0/2/2/2
16	LMT	A	833	-	-	10/21/61/61	0/2/2/2
13	CL7	A	838	1	2/2/14/20	16/33/109/115	-
13	CL7	A	848	1	2/2/11/20	10/15/91/115	-
13	CL7	L	205	10	2/2/15/20	10/39/115/115	-
17	SF4	C	102	3	-	-	0/6/5/5
13	CL7	A	842	23	2/2/14/20	9/33/109/115	-
18	PHO	A	849	-	-	17/37/103/103	0/5/6/6
13	CL7	A	806	1	2/2/15/20	19/39/115/115	-
16	LMT	K	104	-	-	6/9/29/61	0/1/1/2
16	LMT	L	206	-	-	9/21/61/61	0/2/2/2
13	CL7	A	845	1	2/2/12/20	7/21/97/115	-
13	CL7	B	846	-	2/2/10/20	4/10/86/115	-
13	CL7	B	821	2	2/2/12/20	9/26/102/115	-
19	WVN	L	202	-	-	6/29/63/63	0/2/2/2
19	WVN	B	847	-	-	8/29/63/63	0/2/2/2
13	CL7	B	816	2	2/2/12/20	7/21/97/115	-
13	CL7	B	834	-	2/2/11/20	8/15/91/115	-
13	CL7	A	816	1	2/2/12/20	5/21/97/115	-
19	WVN	L	209	-	-	2/29/63/63	0/2/2/2
19	WVN	K	101	-	-	6/29/63/63	0/2/2/2
13	CL7	L	201	1	2/2/15/20	11/39/115/115	-
13	CL7	I	102	-	1/1/11/20	6/15/91/115	-
13	CL7	A	830	1	2/2/15/20	19/39/115/115	-
13	CL7	A	818	1	2/2/13/20	7/27/103/115	-
13	CL7	B	843	14	2/2/11/20	7/15/91/115	-
13	CL7	A	841	1	2/2/14/20	13/33/109/115	-
13	CL7	B	811	2	2/2/10/20	3/10/86/115	-
19	WVN	A	851	-	-	6/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	G9R	A	801	1	1/1/15/20	7/39/115/115	-
20	LMG	B	827	-	-	23/50/70/70	0/1/1/1
13	CL7	F	202	6	2/2/11/20	7/15/91/115	-
13	CL7	B	822	2	1/1/15/20	9/39/115/115	-
13	CL7	B	808	2	2/2/15/20	12/39/115/115	-
13	CL7	A	835	1	2/2/13/20	10/27/103/115	-
13	CL7	A	823	1	2/2/15/20	17/39/115/115	-
13	CL7	A	808	1	2/2/15/20	16/39/115/115	-
16	LMT	B	836	-	-	4/13/33/61	0/1/1/2
13	CL7	B	819	2	2/2/15/20	19/39/115/115	-
13	CL7	J	103	8	2/2/10/20	6/9/85/115	-
19	WVN	A	850	-	-	7/29/63/63	0/2/2/2
14	LHG	L	208	-	-	24/47/47/53	-
13	CL7	A	811	1	2/2/15/20	14/39/115/115	-
17	SF4	C	101	3	-	-	0/6/5/5
13	CL7	A	855	14	2/2/10/20	4/10/86/115	-
13	CL7	A	803	1	2/2/15/20	14/39/115/115	-
13	CL7	A	822	1	2/2/15/20	6/39/115/115	-
13	CL7	B	815	2	2/2/15/20	18/39/115/115	-
13	CL7	B	842	-	2/2/5/20	-	-
13	CL7	A	831	23	2/2/11/20	5/15/91/115	-
13	CL7	A	840	1	2/2/15/20	12/39/115/115	-
13	CL7	B	828	2	2/2/15/20	11/39/115/115	-
19	WVN	A	853	-	-	6/29/63/63	0/2/2/2
13	CL7	F	206	23	2/2/11/20	4/15/91/115	-
13	CL7	B	812	2	2/2/14/20	15/33/109/115	-
13	CL7	B	818	23	2/2/15/20	10/39/115/115	-
13	CL7	A	836	1	2/2/14/20	14/33/109/115	-
13	CL7	B	813	2	2/2/10/20	4/10/86/115	-
19	WVN	L	210	-	-	4/29/63/63	0/2/2/2
13	CL7	B	831	23	2/2/12/20	8/21/97/115	-
13	CL7	B	809	2	2/2/10/20	4/10/86/115	-
14	LHG	A	821	13	-	25/50/50/53	-
19	WVN	J	101	-	-	3/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	LMT	A	834	-	-	5/21/61/61	0/2/2/2
13	CL7	A	810	23	2/2/10/20	6/10/86/115	-
19	WVN	F	204	-	-	6/29/63/63	0/2/2/2
16	LMT	B	835	-	-	8/15/35/61	0/1/1/2
13	CL7	A	846	1	2/2/11/20	6/15/91/115	-
13	CL7	B	802	23	2/2/15/20	11/39/115/115	-
19	WVN	A	854	-	-	7/29/63/63	0/2/2/2
13	CL7	A	802	23	2/2/15/20	8/39/115/115	-
13	CL7	B	841	2	2/2/11/20	4/15/91/115	-
18	PHO	B	801	-	-	7/37/103/103	0/5/6/6
13	CL7	B	804	2	2/2/15/20	8/39/115/115	-
13	CL7	B	807	2	2/2/12/20	4/21/97/115	-
13	CL7	A	827	1	2/2/14/20	12/33/109/115	-
13	CL7	A	843	23	2/2/12/20	4/21/97/115	-
13	CL7	B	840	2	2/2/11/20	6/15/91/115	-
13	CL7	A	828	1	2/2/14/20	15/33/109/115	-
20	LMG	L	203	-	-	13/42/62/70	0/1/1/1
13	CL7	K	102	23	2/2/10/20	4/10/86/115	-
13	CL7	A	813	1	2/2/12/20	2/21/97/115	-

All (2351) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	K	101	WVN	C15-C13	14.83	1.59	1.34
19	J	101	WVN	C15-C13	14.82	1.59	1.34
19	F	205	WVN	C15-C13	14.63	1.59	1.34
19	I	101	WVN	C15-C13	14.63	1.59	1.34
19	M	101	WVN	C15-C13	14.61	1.59	1.34
19	J	104	WVN	C15-C13	14.58	1.59	1.34
19	F	204	WVN	C15-C13	14.32	1.58	1.34
19	L	209	WVN	C15-C13	14.28	1.58	1.34
19	L	210	WVN	C15-C13	14.19	1.58	1.34
19	A	851	WVN	C15-C13	14.18	1.58	1.34
19	A	850	WVN	C15-C13	14.17	1.58	1.34
19	B	847	WVN	C15-C13	14.14	1.58	1.34
19	A	853	WVN	C15-C13	14.14	1.58	1.34
19	B	848	WVN	C15-C13	14.11	1.58	1.34
19	A	854	WVN	C15-C13	14.09	1.58	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	852	WVN	C15-C13	13.95	1.57	1.34
19	L	202	WVN	C15-C13	13.55	1.57	1.34
22	B	845	K3I	C2-C3	-11.88	1.35	1.52
22	B	845	K3I	C36-C35	-11.22	1.36	1.52
13	A	816	CL7	MG-NA	9.77	2.25	2.05
13	A	815	CL7	MG-NA	9.68	2.25	2.05
13	A	839	CL7	MG-NA	9.62	2.24	2.05
13	L	207	CL7	MG-NA	9.51	2.24	2.05
13	A	827	CL7	MG-NA	9.51	2.24	2.05
13	A	808	CL7	MG-NA	9.48	2.24	2.05
13	B	846	CL7	MG-NA	9.48	2.24	2.05
13	J	103	CL7	MG-NA	9.47	2.24	2.05
13	B	802	CL7	MG-NA	9.46	2.24	2.05
13	A	831	CL7	MG-NA	9.46	2.24	2.05
13	B	804	CL7	MG-NA	9.46	2.24	2.05
13	A	802	CL7	MG-NA	9.46	2.24	2.05
13	A	830	CL7	MG-NA	9.45	2.24	2.05
13	F	201	CL7	MG-NA	9.43	2.24	2.05
13	B	823	CL7	MG-NA	9.43	2.24	2.05
13	F	202	CL7	MG-NA	9.41	2.24	2.05
13	A	803	CL7	MG-NA	9.40	2.24	2.05
13	B	826	CL7	MG-NA	9.39	2.24	2.05
13	A	838	CL7	MG-NA	9.38	2.24	2.05
13	A	836	CL7	MG-NA	9.37	2.24	2.05
13	A	812	CL7	MG-NA	9.37	2.24	2.05
13	B	813	CL7	MG-NA	9.37	2.24	2.05
13	A	822	CL7	MG-NA	9.37	2.24	2.05
13	A	813	CL7	MG-NA	9.36	2.24	2.05
13	B	809	CL7	MG-NA	9.35	2.24	2.05
13	B	817	CL7	MG-NA	9.35	2.24	2.05
13	A	845	CL7	MG-NA	9.35	2.24	2.05
13	L	204	CL7	MG-NA	9.35	2.24	2.05
13	B	822	CL7	MG-NA	9.34	2.24	2.05
13	A	817	CL7	MG-NA	9.34	2.24	2.05
13	B	816	CL7	MG-NA	9.34	2.24	2.05
13	A	806	CL7	MG-NA	9.34	2.24	2.05
13	A	824	CL7	MG-NA	9.34	2.24	2.05
13	A	848	CL7	MG-NA	9.34	2.24	2.05
13	L	201	CL7	MG-NA	9.33	2.24	2.05
13	B	810	CL7	MG-NA	9.33	2.24	2.05
13	A	823	CL7	MG-NA	9.33	2.24	2.05
13	K	102	CL7	MG-NA	9.33	2.24	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	815	CL7	MG-NA	9.33	2.24	2.05
13	B	830	CL7	MG-NA	9.33	2.24	2.05
13	B	824	CL7	MG-NA	9.33	2.24	2.05
13	A	810	CL7	MG-NA	9.32	2.24	2.05
13	B	841	CL7	MG-NA	9.32	2.24	2.05
13	A	840	CL7	MG-NA	9.32	2.24	2.05
13	B	807	CL7	MG-NA	9.31	2.24	2.05
13	B	803	CL7	MG-NA	9.31	2.24	2.05
13	B	832	CL7	MG-NA	9.31	2.24	2.05
13	B	834	CL7	MG-NA	9.31	2.24	2.05
13	A	825	CL7	MG-NA	9.30	2.24	2.05
13	A	855	CL7	MG-NA	9.30	2.24	2.05
13	B	811	CL7	MG-NA	9.30	2.24	2.05
13	L	205	CL7	MG-NA	9.30	2.24	2.05
13	B	840	CL7	MG-NA	9.30	2.24	2.05
13	B	838	CL7	MG-NA	9.30	2.24	2.05
13	B	812	CL7	MG-NA	9.30	2.24	2.05
13	B	821	CL7	MG-NA	9.29	2.24	2.05
13	B	837	CL7	MG-NA	9.29	2.24	2.05
13	A	829	CL7	MG-NA	9.29	2.24	2.05
13	B	833	CL7	MG-NA	9.29	2.24	2.05
13	B	825	CL7	MG-NA	9.29	2.24	2.05
13	B	808	CL7	MG-NA	9.29	2.24	2.05
13	B	843	CL7	MG-NA	9.28	2.24	2.05
13	A	841	CL7	MG-NA	9.27	2.24	2.05
13	A	846	CL7	MG-NA	9.27	2.24	2.05
13	B	842	CL7	MG-NA	9.26	2.24	2.05
13	B	829	CL7	MG-NA	9.25	2.24	2.05
13	A	828	CL7	MG-NA	9.24	2.24	2.05
13	A	804	CL7	MG-NA	9.22	2.24	2.05
13	A	818	CL7	MG-NA	9.22	2.24	2.05
13	I	102	CL7	MG-NA	9.22	2.24	2.05
13	B	831	CL7	MG-NA	9.20	2.24	2.05
13	B	814	CL7	MG-NA	9.20	2.24	2.05
13	A	842	CL7	MG-NA	9.19	2.24	2.05
13	A	843	CL7	MG-NA	9.17	2.24	2.05
13	B	828	CL7	MG-NA	9.17	2.24	2.05
13	F	206	CL7	MG-NA	9.15	2.23	2.05
13	A	835	CL7	MG-NA	9.14	2.23	2.05
13	B	805	CL7	MG-NA	9.13	2.23	2.05
13	B	818	CL7	MG-NA	9.11	2.23	2.05
13	A	805	CL7	MG-NA	9.11	2.23	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	K	103	CL7	MG-NA	9.10	2.23	2.05
13	A	807	CL7	MG-NA	9.08	2.23	2.05
13	A	809	CL7	MG-NA	9.07	2.23	2.05
13	B	819	CL7	MG-NA	9.04	2.23	2.05
13	A	811	CL7	MG-NA	9.03	2.23	2.05
13	A	819	CL7	MG-NA	9.03	2.23	2.05
13	A	814	CL7	MG-NA	8.98	2.23	2.05
13	A	837	CL7	MG-NA	8.92	2.23	2.05
13	B	806	CL7	MG-NA	8.90	2.23	2.05
13	J	102	CL7	MG-NA	8.90	2.23	2.05
13	A	832	CL7	MG-NA	8.75	2.23	2.05
19	B	847	WVN	C10-C12	-7.80	1.34	1.52
15	B	820	PQN	C3-C2	7.78	1.49	1.35
19	L	202	WVN	C03-C04	-7.73	1.35	1.52
15	A	826	PQN	C3-C2	7.69	1.49	1.35
12	A	801	G9R	MG-NA	7.68	2.24	2.06
19	B	848	WVN	C03-C04	-7.62	1.35	1.52
19	I	101	WVN	C10-C12	-7.58	1.34	1.52
19	A	851	WVN	C06-C13	-7.56	1.44	1.53
19	B	848	WVN	C10-C12	-7.55	1.34	1.52
19	L	202	WVN	C06-C13	-7.52	1.44	1.53
19	I	101	WVN	C03-C04	-7.45	1.36	1.52
19	F	204	WVN	C03-C04	-7.42	1.36	1.52
19	M	101	WVN	C03-C04	-7.40	1.36	1.52
19	K	101	WVN	C03-C04	-7.34	1.36	1.52
19	L	209	WVN	C03-C04	-7.33	1.36	1.52
22	B	845	K3I	C34-C35	7.30	1.65	1.52
19	A	852	WVN	C10-C12	-7.30	1.35	1.52
19	L	210	WVN	C03-C04	-7.25	1.36	1.52
19	A	854	WVN	C10-C12	-7.24	1.35	1.52
19	B	847	WVN	C03-C04	-7.21	1.36	1.52
19	J	101	WVN	C03-C04	-7.21	1.36	1.52
19	A	851	WVN	C03-C01	7.19	1.67	1.54
19	J	104	WVN	C03-C04	-7.18	1.36	1.52
19	A	850	WVN	C03-C04	-7.18	1.36	1.52
19	A	854	WVN	C03-C04	-7.18	1.36	1.52
19	A	852	WVN	C03-C04	-7.17	1.36	1.52
19	L	209	WVN	C10-C12	-7.14	1.35	1.52
19	A	851	WVN	C03-C04	-7.13	1.37	1.52
19	F	204	WVN	C06-C13	-7.13	1.44	1.53
19	A	853	WVN	C03-C04	-7.09	1.37	1.52
19	M	101	WVN	C10-C12	-7.08	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	853	WVN	C10-C12	-7.08	1.35	1.52
19	L	210	WVN	C10-C12	-7.08	1.35	1.52
19	J	104	WVN	C10-C12	-7.05	1.35	1.52
19	A	853	WVN	C06-C13	-7.05	1.44	1.53
19	F	205	WVN	C03-C04	-7.05	1.37	1.52
19	F	205	WVN	C10-C12	-7.04	1.35	1.52
19	K	101	WVN	C10-C12	-7.04	1.35	1.52
19	A	851	WVN	C10-C12	-7.00	1.36	1.52
19	F	204	WVN	C10-C12	-7.00	1.36	1.52
19	J	101	WVN	C06-C13	-6.97	1.44	1.53
19	K	101	WVN	C06-C13	-6.95	1.44	1.53
19	A	850	WVN	C03-C01	6.94	1.67	1.54
19	L	202	WVN	C10-C12	-6.93	1.36	1.52
19	B	847	WVN	C03-C01	6.90	1.66	1.54
22	B	845	K3I	C37-C32	-6.90	1.45	1.53
19	J	101	WVN	C10-C12	-6.86	1.36	1.52
22	B	845	K3I	C4-C3	6.84	1.64	1.52
22	B	845	K3I	C1-C6	-6.82	1.45	1.53
19	L	202	WVN	C03-C01	6.81	1.66	1.54
19	A	852	WVN	C03-C01	6.79	1.66	1.54
19	J	104	WVN	C03-C01	6.78	1.66	1.54
19	L	210	WVN	C06-C13	-6.77	1.45	1.53
19	L	210	WVN	C03-C01	6.74	1.66	1.54
19	F	205	WVN	C06-C13	-6.72	1.45	1.53
19	B	847	WVN	C06-C13	-6.68	1.45	1.53
19	M	101	WVN	C03-C01	6.68	1.66	1.54
19	F	205	WVN	C03-C01	6.64	1.66	1.54
19	J	101	WVN	C03-C01	6.63	1.66	1.54
19	M	101	WVN	C06-C13	-6.62	1.45	1.53
19	I	101	WVN	C03-C01	6.59	1.66	1.54
19	A	854	WVN	C03-C01	6.54	1.66	1.54
19	F	204	WVN	C03-C01	6.51	1.66	1.54
19	A	850	WVN	C10-C12	-6.48	1.37	1.52
19	K	101	WVN	C03-C01	6.42	1.66	1.54
19	A	853	WVN	C03-C01	6.38	1.65	1.54
19	L	209	WVN	C03-C01	6.30	1.65	1.54
19	I	101	WVN	C06-C13	-6.26	1.45	1.53
19	L	209	WVN	C06-C13	-6.25	1.45	1.53
19	A	852	WVN	C06-C13	-6.25	1.45	1.53
19	B	848	WVN	C03-C01	6.25	1.65	1.54
19	A	850	WVN	C06-C13	-6.24	1.45	1.53
19	I	101	WVN	C10-C06	6.08	1.68	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	854	WVN	C06-C13	-6.06	1.46	1.53
19	J	104	WVN	C06-C13	-5.90	1.46	1.53
19	A	850	WVN	C10-C06	5.78	1.67	1.54
19	B	848	WVN	C10-C06	5.67	1.67	1.54
13	A	809	CL7	O2A-C1	5.56	1.61	1.46
13	A	814	CL7	O2A-C1	5.53	1.61	1.46
13	A	808	CL7	O2A-C1	5.46	1.60	1.46
13	A	832	CL7	O2A-C1	5.42	1.60	1.46
13	B	812	CL7	O2A-C1	5.42	1.60	1.46
13	B	802	CL7	O2A-C1	5.42	1.60	1.46
13	B	818	CL7	O2A-C1	5.40	1.60	1.46
13	A	811	CL7	O2A-C1	5.39	1.60	1.46
13	A	818	CL7	O2A-C1	5.36	1.60	1.46
13	B	832	CL7	O2A-C1	5.36	1.60	1.46
13	A	806	CL7	O2A-C1	5.36	1.60	1.46
13	B	837	CL7	O2A-C1	5.35	1.60	1.46
13	A	819	CL7	O2A-C1	5.35	1.60	1.46
13	A	845	CL7	O2A-C1	5.35	1.60	1.46
13	B	829	CL7	CHD-C4C	5.34	1.48	1.38
13	L	205	CL7	O2A-C1	5.33	1.60	1.46
13	B	815	CL7	O2A-C1	5.33	1.60	1.46
13	A	823	CL7	O2A-C1	5.32	1.60	1.46
13	A	829	CL7	O2A-C1	5.32	1.60	1.46
13	A	804	CL7	O2A-C1	5.32	1.60	1.46
13	B	806	CL7	O2A-C1	5.31	1.60	1.46
13	A	816	CL7	O2A-C1	5.31	1.60	1.46
13	A	825	CL7	O2A-C1	5.31	1.60	1.46
13	A	803	CL7	O2A-C1	5.31	1.60	1.46
13	B	814	CL7	O2A-C1	5.31	1.60	1.46
13	B	828	CL7	O2A-C1	5.31	1.60	1.46
13	B	823	CL7	O2A-C1	5.31	1.60	1.46
13	B	808	CL7	O2A-C1	5.30	1.60	1.46
13	A	842	CL7	O2A-C1	5.30	1.60	1.46
13	A	807	CL7	O2A-C1	5.30	1.60	1.46
13	A	838	CL7	O2A-C1	5.30	1.60	1.46
13	A	824	CL7	O2A-C1	5.30	1.60	1.46
13	F	201	CL7	O2A-C1	5.30	1.60	1.46
19	A	853	WVN	C10-C06	5.29	1.66	1.54
13	A	827	CL7	O2A-C1	5.29	1.60	1.46
13	L	204	CL7	O2A-C1	5.29	1.60	1.46
13	A	830	CL7	O2A-C1	5.29	1.60	1.46
13	L	207	CL7	O2A-C1	5.28	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	828	CL7	O2A-C1	5.28	1.60	1.46
19	J	101	WVN	C10-C06	5.28	1.66	1.54
13	A	840	CL7	O2A-C1	5.28	1.60	1.46
13	B	804	CL7	O2A-C1	5.28	1.60	1.46
13	A	835	CL7	O2A-C1	5.27	1.60	1.46
13	B	824	CL7	CHD-C4C	5.27	1.48	1.38
13	A	813	CL7	O2A-C1	5.27	1.60	1.46
13	B	816	CL7	O2A-C1	5.26	1.60	1.46
13	B	840	CL7	CHD-C4C	5.25	1.48	1.38
13	B	825	CL7	O2A-C1	5.25	1.60	1.46
13	B	831	CL7	O2A-C1	5.24	1.60	1.46
13	A	812	CL7	O2A-C1	5.24	1.60	1.46
13	J	102	CL7	O2A-C1	5.24	1.60	1.46
13	A	836	CL7	O2A-C1	5.24	1.60	1.46
13	A	802	CL7	O2A-C1	5.23	1.60	1.46
13	B	817	CL7	O2A-C1	5.22	1.60	1.46
13	A	815	CL7	O2A-C1	5.22	1.60	1.46
13	B	842	CL7	C1A-CHA	5.22	1.49	1.36
13	A	841	CL7	O2A-C1	5.22	1.60	1.46
13	A	837	CL7	O2A-C1	5.22	1.60	1.46
13	A	822	CL7	O2A-C1	5.21	1.60	1.46
13	B	819	CL7	CHD-C4C	5.20	1.48	1.38
19	B	848	WVN	C06-C13	-5.20	1.47	1.53
13	A	843	CL7	O2A-C1	5.20	1.60	1.46
19	J	104	WVN	C10-C06	5.20	1.66	1.54
13	B	826	CL7	O2A-C1	5.20	1.60	1.46
13	K	103	CL7	CHD-C4C	5.19	1.48	1.38
13	B	822	CL7	O2A-C1	5.19	1.60	1.46
13	B	819	CL7	O2A-C1	5.18	1.60	1.46
13	A	839	CL7	O2A-C1	5.18	1.60	1.46
13	A	805	CL7	O2A-C1	5.17	1.60	1.46
13	B	821	CL7	O2A-C1	5.17	1.60	1.46
19	L	202	WVN	C10-C06	5.16	1.65	1.54
13	B	842	CL7	C2D-C1D	5.15	1.50	1.39
13	B	843	CL7	CHC-C1C	5.15	1.48	1.38
13	A	819	CL7	O2D-CGD	5.15	1.45	1.33
13	B	807	CL7	O2A-C1	5.14	1.60	1.46
13	F	202	CL7	O2D-CGD	5.14	1.45	1.33
13	L	201	CL7	O2A-C1	5.14	1.60	1.46
13	B	834	CL7	CHD-C4C	5.13	1.48	1.38
12	A	801	G9R	O2A-C1	5.13	1.59	1.46
13	B	840	CL7	O2D-CGD	5.13	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	805	CL7	CHC-C1C	5.12	1.48	1.38
13	B	830	CL7	O2D-CGD	5.12	1.45	1.33
13	B	803	CL7	O2A-C1	5.12	1.59	1.46
13	B	838	CL7	O2D-CGD	5.12	1.45	1.33
13	B	805	CL7	O2A-C1	5.12	1.59	1.46
13	B	805	CL7	O2D-CGD	5.11	1.45	1.33
13	A	806	CL7	O2D-CGD	5.10	1.45	1.33
13	B	824	CL7	O2D-CGD	5.10	1.45	1.33
13	B	834	CL7	O2D-CGD	5.10	1.45	1.33
19	J	101	WVN	C23-C25	5.10	1.56	1.46
13	B	843	CL7	O2D-CGD	5.10	1.45	1.33
19	L	210	WVN	C23-C25	5.10	1.56	1.46
13	B	804	CL7	O2D-CGD	5.10	1.45	1.33
13	B	842	CL7	C3C-C2C	5.09	1.46	1.35
13	B	833	CL7	CHD-C4C	5.08	1.48	1.38
13	B	816	CL7	O2D-CGD	5.08	1.45	1.33
13	B	821	CL7	O2D-CGD	5.08	1.45	1.33
13	B	825	CL7	O2D-CGD	5.08	1.45	1.33
13	B	809	CL7	O2D-CGD	5.07	1.45	1.33
13	A	824	CL7	O2D-CGD	5.06	1.45	1.33
13	A	848	CL7	O2D-CGD	5.06	1.45	1.33
13	A	831	CL7	CHD-C4C	5.06	1.48	1.38
13	B	832	CL7	O2D-CGD	5.06	1.45	1.33
13	A	840	CL7	O2D-CGD	5.06	1.45	1.33
13	A	843	CL7	CHC-C1C	5.05	1.48	1.38
13	B	838	CL7	CHD-C4C	5.05	1.48	1.38
13	F	202	CL7	CHD-C4C	5.05	1.48	1.38
15	A	826	PQN	C10-C5	5.05	1.48	1.40
13	I	102	CL7	O2D-CGD	5.05	1.45	1.33
13	F	206	CL7	O2D-CGD	5.05	1.45	1.33
13	B	823	CL7	O2D-CGD	5.05	1.45	1.33
13	A	841	CL7	O2D-CGD	5.04	1.45	1.33
13	A	836	CL7	O2D-CGD	5.04	1.45	1.33
13	A	804	CL7	O2D-CGD	5.04	1.45	1.33
13	B	833	CL7	O2D-CGD	5.04	1.45	1.33
13	B	841	CL7	CHC-C1C	5.04	1.48	1.38
13	A	829	CL7	O2D-CGD	5.04	1.45	1.33
13	A	811	CL7	O2D-CGD	5.04	1.45	1.33
13	B	813	CL7	O2D-CGD	5.04	1.45	1.33
19	A	851	WVN	C10-C06	5.03	1.65	1.54
13	A	822	CL7	O2D-CGD	5.03	1.45	1.33
13	A	817	CL7	O2D-CGD	5.03	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	845	CL7	O2D-CGD	5.03	1.45	1.33
13	B	811	CL7	O2D-CGD	5.03	1.45	1.33
13	B	811	CL7	CHD-C4C	5.03	1.48	1.38
13	A	827	CL7	O2D-CGD	5.02	1.45	1.33
13	B	830	CL7	CHD-C4C	5.02	1.48	1.38
19	F	204	WVN	C10-C06	5.02	1.65	1.54
13	A	842	CL7	O2D-CGD	5.02	1.45	1.33
13	A	848	CL7	CHD-C4C	5.02	1.48	1.38
13	B	840	CL7	CHC-C1C	5.02	1.48	1.38
13	B	837	CL7	CHC-C1C	5.01	1.48	1.38
13	B	837	CL7	O2D-CGD	5.01	1.45	1.33
13	A	832	CL7	CHC-C1C	5.01	1.48	1.38
19	L	210	WVN	C10-C06	5.01	1.65	1.54
13	A	803	CL7	O2D-CGD	5.00	1.45	1.33
13	A	828	CL7	O2D-CGD	5.00	1.45	1.33
13	B	818	CL7	CHD-C4C	5.00	1.48	1.38
13	A	823	CL7	O2D-CGD	5.00	1.45	1.33
13	B	819	CL7	O2D-CGD	5.00	1.45	1.33
13	B	826	CL7	O2D-CGD	5.00	1.45	1.33
13	B	825	CL7	CHD-C4C	5.00	1.48	1.38
19	F	205	WVN	C23-C25	5.00	1.56	1.46
13	K	102	CL7	CHD-C4C	4.99	1.48	1.38
13	A	804	CL7	CHC-C1C	4.99	1.48	1.38
13	A	814	CL7	CHC-C1C	4.99	1.48	1.38
13	B	821	CL7	CHC-C1C	4.99	1.48	1.38
13	A	840	CL7	CHC-C1C	4.99	1.48	1.38
19	M	101	WVN	C10-C06	4.99	1.65	1.54
13	J	103	CL7	CHD-C4C	4.99	1.48	1.38
13	B	816	CL7	CHD-C4C	4.98	1.48	1.38
13	A	831	CL7	O2D-CGD	4.98	1.45	1.33
13	A	802	CL7	O2D-CGD	4.98	1.45	1.33
13	F	201	CL7	CHC-C1C	4.98	1.48	1.38
13	L	205	CL7	O2D-CGD	4.97	1.45	1.33
13	F	202	CL7	CHC-C1C	4.97	1.48	1.38
13	I	102	CL7	CHD-C4C	4.97	1.48	1.38
13	K	102	CL7	CHC-C1C	4.97	1.48	1.38
13	A	837	CL7	O2D-CGD	4.96	1.45	1.33
13	A	808	CL7	O2D-CGD	4.96	1.45	1.33
13	A	810	CL7	CHD-C4C	4.96	1.48	1.38
13	B	810	CL7	O2D-CGD	4.96	1.45	1.33
13	B	818	CL7	O2D-CGD	4.96	1.45	1.33
13	A	838	CL7	CHD-C4C	4.95	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	817	CL7	O2A-C1	4.95	1.59	1.46
13	A	810	CL7	CHC-C1C	4.95	1.48	1.38
13	A	803	CL7	CHC-C1C	4.95	1.48	1.38
13	F	201	CL7	O2D-CGD	4.95	1.45	1.33
13	A	838	CL7	C3C-C2C	4.95	1.47	1.36
13	A	838	CL7	CHC-C1C	4.95	1.48	1.38
13	A	846	CL7	O2D-CGD	4.95	1.45	1.33
13	A	812	CL7	O2D-CGD	4.94	1.45	1.33
13	B	822	CL7	O2D-CGD	4.94	1.45	1.33
13	A	809	CL7	O2D-CGD	4.94	1.45	1.33
13	K	103	CL7	CHC-C1C	4.94	1.48	1.38
13	B	834	CL7	CHC-C1C	4.94	1.48	1.38
13	A	817	CL7	CHC-C1C	4.94	1.48	1.38
13	L	204	CL7	CHC-C1C	4.94	1.48	1.38
13	A	811	CL7	CHD-C4C	4.94	1.48	1.38
13	A	835	CL7	CHC-C1C	4.94	1.48	1.38
13	A	816	CL7	CHD-C4C	4.94	1.48	1.38
13	A	829	CL7	CHD-C4C	4.94	1.48	1.38
13	B	816	CL7	CHC-C1C	4.94	1.48	1.38
13	A	814	CL7	O2D-CGD	4.94	1.45	1.33
13	L	207	CL7	O2D-CGD	4.94	1.45	1.33
13	A	818	CL7	O2D-CGD	4.93	1.45	1.33
13	A	805	CL7	CHD-C4C	4.93	1.48	1.38
13	B	831	CL7	CHC-C1C	4.93	1.48	1.38
13	B	838	CL7	CHC-C1C	4.92	1.48	1.38
19	A	854	WVN	C10-C06	4.92	1.65	1.54
13	A	843	CL7	O2D-CGD	4.92	1.45	1.33
13	A	814	CL7	CHD-C4C	4.92	1.48	1.38
13	F	206	CL7	CHD-C4C	4.92	1.48	1.38
13	B	825	CL7	CHC-C1C	4.92	1.48	1.38
19	F	205	WVN	C10-C06	4.91	1.65	1.54
13	A	848	CL7	CHC-C1C	4.91	1.48	1.38
13	B	812	CL7	O2D-CGD	4.91	1.45	1.33
13	A	815	CL7	O2D-CGD	4.90	1.45	1.33
12	A	801	G9R	O2D-CGD	4.90	1.45	1.33
13	B	813	CL7	CHC-C1C	4.90	1.48	1.38
13	A	805	CL7	O2D-CGD	4.90	1.45	1.33
13	B	832	CL7	CHD-C4C	4.90	1.48	1.38
13	A	836	CL7	CHC-C1C	4.90	1.48	1.38
13	A	839	CL7	O2D-CGD	4.90	1.45	1.33
13	A	825	CL7	CHC-C1C	4.90	1.48	1.38
13	A	810	CL7	O2D-CGD	4.89	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	804	CL7	CHD-C4C	4.89	1.48	1.38
13	A	855	CL7	CHD-C4C	4.89	1.48	1.38
13	A	822	CL7	CHD-C4C	4.89	1.48	1.38
13	A	855	CL7	O2D-CGD	4.89	1.45	1.33
13	A	819	CL7	CHD-C4C	4.88	1.48	1.38
13	A	825	CL7	O2D-CGD	4.88	1.45	1.33
13	A	838	CL7	O2D-CGD	4.88	1.45	1.33
13	L	201	CL7	O2D-CGD	4.88	1.45	1.33
13	B	846	CL7	O2D-CGD	4.88	1.45	1.33
13	A	827	CL7	CHC-C1C	4.87	1.47	1.38
13	B	828	CL7	CHC-C1C	4.87	1.47	1.38
13	B	809	CL7	CHC-C1C	4.87	1.47	1.38
13	J	103	CL7	CHC-C1C	4.87	1.47	1.38
13	A	807	CL7	O2D-CGD	4.87	1.45	1.33
13	A	827	CL7	CHD-C4C	4.87	1.47	1.38
13	A	803	CL7	CHD-C4C	4.87	1.47	1.38
13	A	828	CL7	CHD-C4C	4.87	1.47	1.38
13	B	831	CL7	CHD-C4C	4.87	1.47	1.38
13	A	841	CL7	CHC-C1C	4.86	1.47	1.38
13	B	817	CL7	CHD-C4C	4.86	1.47	1.38
13	B	828	CL7	O2D-CGD	4.86	1.45	1.33
13	A	830	CL7	O2D-CGD	4.86	1.45	1.33
13	B	846	CL7	CHD-C4C	4.86	1.47	1.38
13	L	207	CL7	CHD-C4C	4.86	1.47	1.38
13	F	206	CL7	CHC-C1C	4.86	1.47	1.38
13	B	833	CL7	CHC-C1C	4.86	1.47	1.38
13	A	824	CL7	CHD-C4C	4.86	1.47	1.38
13	A	828	CL7	CHC-C1C	4.85	1.47	1.38
13	B	802	CL7	O2D-CGD	4.85	1.45	1.33
13	B	830	CL7	CHC-C1C	4.85	1.47	1.38
22	B	845	K3I	C8-C9	4.85	1.56	1.46
13	B	810	CL7	CHD-C4C	4.85	1.47	1.38
13	B	819	CL7	CHC-C1C	4.85	1.47	1.38
19	B	847	WVN	C23-C25	4.85	1.56	1.46
13	A	824	CL7	CHC-C1C	4.84	1.47	1.38
13	A	845	CL7	CHD-C4C	4.84	1.47	1.38
13	B	837	CL7	CHD-C4C	4.84	1.47	1.38
13	A	809	CL7	CHD-C4C	4.84	1.47	1.38
13	A	842	CL7	CHC-C1C	4.83	1.47	1.38
13	A	835	CL7	CHD-C4C	4.83	1.47	1.38
19	K	101	WVN	C10-C06	4.83	1.65	1.54
13	L	207	CL7	CHC-C1C	4.83	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	K	102	CL7	O2D-CGD	4.82	1.45	1.33
13	B	832	CL7	CHC-C1C	4.82	1.47	1.38
13	A	815	CL7	CHC-C1C	4.82	1.47	1.38
13	B	823	CL7	CHD-C4C	4.82	1.47	1.38
13	B	814	CL7	O2D-CGD	4.82	1.45	1.33
13	B	843	CL7	CHD-C4C	4.82	1.47	1.38
13	A	829	CL7	CHC-C1C	4.82	1.47	1.38
13	A	813	CL7	O2D-CGD	4.82	1.45	1.33
13	B	817	CL7	O2D-CGD	4.82	1.45	1.33
13	A	806	CL7	CHD-C4C	4.82	1.47	1.38
13	A	823	CL7	CHC-C1C	4.82	1.47	1.38
13	B	814	CL7	CHC-C1C	4.82	1.47	1.38
13	B	831	CL7	O2D-CGD	4.81	1.45	1.33
19	A	852	WVN	C10-C06	4.81	1.65	1.54
13	B	803	CL7	O2D-CGD	4.81	1.45	1.33
13	B	829	CL7	O2D-CGD	4.80	1.45	1.33
13	A	825	CL7	CHD-C4C	4.80	1.47	1.38
19	B	847	WVN	C10-C06	4.80	1.65	1.54
13	B	815	CL7	CHC-C1C	4.80	1.47	1.38
13	L	205	CL7	CHD-C4C	4.80	1.47	1.38
13	A	819	CL7	CHC-C1C	4.80	1.47	1.38
13	B	809	CL7	CHD-C4C	4.80	1.47	1.38
13	B	803	CL7	CHC-C1C	4.80	1.47	1.38
19	A	851	WVN	C23-C25	4.79	1.56	1.46
13	A	842	CL7	CHD-C4C	4.79	1.47	1.38
13	B	802	CL7	CHC-C1C	4.79	1.47	1.38
13	A	855	CL7	CHC-C1C	4.79	1.47	1.38
13	F	201	CL7	CHD-C4C	4.78	1.47	1.38
13	A	811	CL7	CHC-C1C	4.78	1.47	1.38
13	A	816	CL7	O2D-CGD	4.78	1.45	1.33
19	J	104	WVN	C23-C25	4.78	1.56	1.46
13	A	807	CL7	CHD-C4C	4.77	1.47	1.38
13	B	812	CL7	CHD-C4C	4.77	1.47	1.38
13	B	806	CL7	O2D-CGD	4.77	1.45	1.33
13	B	826	CL7	CHC-C1C	4.77	1.47	1.38
13	B	834	CL7	C3C-C2C	4.77	1.47	1.36
13	B	826	CL7	CHD-C4C	4.77	1.47	1.38
19	J	104	WVN	C02-C11	4.76	1.57	1.50
13	A	830	CL7	CHC-C1C	4.76	1.47	1.38
13	A	840	CL7	CHD-C4C	4.76	1.47	1.38
13	B	841	CL7	O2D-CGD	4.76	1.44	1.33
13	B	813	CL7	CHD-C4C	4.75	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	F	205	WVN	C31-C32	4.75	1.56	1.46
13	A	813	CL7	CHC-C1C	4.75	1.47	1.38
15	B	820	PQN	C10-C5	4.75	1.48	1.40
13	L	204	CL7	O2D-CGD	4.75	1.44	1.33
13	A	845	CL7	CHC-C1C	4.74	1.47	1.38
13	A	809	CL7	CHC-C1C	4.74	1.47	1.38
13	B	807	CL7	O2D-CGD	4.74	1.44	1.33
13	A	839	CL7	CHC-C1C	4.74	1.47	1.38
13	B	811	CL7	CHC-C1C	4.74	1.47	1.38
13	B	807	CL7	CHC-C1C	4.73	1.47	1.38
13	A	812	CL7	CHC-C1C	4.73	1.47	1.38
13	A	831	CL7	CHC-C1C	4.73	1.47	1.38
13	A	812	CL7	CHD-C4C	4.73	1.47	1.38
13	A	830	CL7	CHD-C4C	4.72	1.47	1.38
13	A	815	CL7	CHD-C4C	4.72	1.47	1.38
19	A	850	WVN	C23-C25	4.72	1.56	1.46
13	B	818	CL7	CHC-C1C	4.72	1.47	1.38
13	B	823	CL7	CHC-C1C	4.71	1.47	1.38
19	K	101	WVN	C23-C25	4.71	1.56	1.46
13	A	807	CL7	CHC-C1C	4.70	1.47	1.38
19	L	209	WVN	C10-C06	4.70	1.64	1.54
13	A	808	CL7	CHC-C1C	4.70	1.47	1.38
13	L	201	CL7	CHD-C4C	4.69	1.47	1.38
13	A	835	CL7	O2D-CGD	4.69	1.44	1.33
13	A	846	CL7	CHD-C4C	4.69	1.47	1.38
13	B	842	CL7	C2B-C1B	4.69	1.50	1.40
13	A	802	CL7	CHC-C1C	4.68	1.47	1.38
13	B	806	CL7	CHC-C1C	4.68	1.47	1.38
19	F	204	WVN	C23-C25	4.68	1.56	1.46
13	B	819	CL7	C3C-C2C	4.68	1.46	1.36
13	A	823	CL7	CHD-C4C	4.68	1.47	1.38
13	B	808	CL7	CHC-C1C	4.67	1.47	1.38
13	B	812	CL7	CHC-C1C	4.67	1.47	1.38
13	I	102	CL7	CHC-C1C	4.65	1.47	1.38
13	A	816	CL7	CHC-C1C	4.65	1.47	1.38
13	B	822	CL7	CHD-C4C	4.65	1.47	1.38
13	B	805	CL7	CHC-C1C	4.65	1.47	1.38
13	B	804	CL7	CHC-C1C	4.65	1.47	1.38
13	A	818	CL7	CHD-C4C	4.65	1.47	1.38
13	A	837	CL7	CHC-C1C	4.65	1.47	1.38
13	B	815	CL7	CHD-C4C	4.65	1.47	1.38
13	A	817	CL7	CHD-C4C	4.64	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	805	CL7	CHD-C4C	4.64	1.47	1.38
13	B	828	CL7	CHD-C4C	4.64	1.47	1.38
13	B	808	CL7	O2D-CGD	4.64	1.44	1.33
13	B	815	CL7	O2D-CGD	4.63	1.44	1.33
13	A	846	CL7	CHC-C1C	4.63	1.47	1.38
19	L	210	WVN	C12-C14	4.63	1.67	1.52
13	A	822	CL7	CHC-C1C	4.63	1.47	1.38
13	B	824	CL7	CHC-C1C	4.63	1.47	1.38
13	B	804	CL7	CHD-C4C	4.63	1.47	1.38
13	A	806	CL7	CHC-C1C	4.62	1.47	1.38
13	L	204	CL7	CHD-C4C	4.62	1.47	1.38
13	A	818	CL7	CHC-C1C	4.62	1.47	1.38
13	A	808	CL7	CHD-C4C	4.61	1.47	1.38
13	L	207	CL7	C3C-C2C	4.61	1.46	1.36
13	B	816	CL7	C3C-C2C	4.60	1.46	1.36
13	B	810	CL7	CHC-C1C	4.60	1.47	1.38
13	B	808	CL7	CHD-C4C	4.60	1.47	1.38
13	A	825	CL7	C3C-C2C	4.60	1.46	1.36
13	B	840	CL7	C3C-C2C	4.60	1.46	1.36
13	B	807	CL7	CHD-C4C	4.59	1.47	1.38
13	B	814	CL7	CHD-C4C	4.59	1.47	1.38
13	A	839	CL7	CHD-C4C	4.59	1.47	1.38
13	L	205	CL7	CHC-C1C	4.58	1.47	1.38
13	A	802	CL7	CHD-C4C	4.58	1.47	1.38
13	A	837	CL7	CHD-C4C	4.58	1.47	1.38
13	B	817	CL7	CHC-C1C	4.58	1.47	1.38
13	A	841	CL7	CHD-C4C	4.57	1.47	1.38
19	A	850	WVN	C02-C11	4.57	1.57	1.50
13	A	843	CL7	CHD-C4C	4.56	1.47	1.38
19	L	210	WVN	C14-C15	-4.56	1.42	1.51
13	A	848	CL7	C3C-C2C	4.56	1.46	1.36
13	K	103	CL7	C3C-C2C	4.56	1.46	1.36
13	F	206	CL7	C3C-C2C	4.56	1.46	1.36
19	F	205	WVN	C19-C22	4.56	1.55	1.46
13	A	805	CL7	C3C-C2C	4.55	1.46	1.36
13	A	813	CL7	CHD-C4C	4.55	1.47	1.38
13	B	806	CL7	CHD-C4C	4.55	1.47	1.38
13	A	835	CL7	C3C-C2C	4.53	1.46	1.36
19	A	850	WVN	C19-C22	4.52	1.55	1.46
13	F	202	CL7	C3C-C2C	4.52	1.46	1.36
13	K	102	CL7	C3C-C2C	4.52	1.46	1.36
13	B	833	CL7	C3C-C2C	4.51	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	801	G9R	CHC-C1C	4.51	1.47	1.38
13	B	826	CL7	C3C-C2C	4.51	1.46	1.36
13	A	828	CL7	C3C-C2C	4.50	1.46	1.36
13	B	846	CL7	C3C-C2C	4.50	1.46	1.36
13	B	802	CL7	CHD-C4C	4.50	1.47	1.38
13	B	830	CL7	C3C-C2C	4.50	1.46	1.36
13	A	830	CL7	C3C-C2C	4.50	1.46	1.36
13	A	804	CL7	C3C-C2C	4.50	1.46	1.36
13	B	822	CL7	CHC-C1C	4.50	1.47	1.38
13	B	828	CL7	C3C-C2C	4.49	1.46	1.36
13	L	205	CL7	C3C-C2C	4.48	1.46	1.36
13	J	102	CL7	O2D-CGD	4.47	1.44	1.33
13	F	201	CL7	C3C-C2C	4.47	1.46	1.36
19	L	202	WVN	C02-C11	4.46	1.56	1.50
13	I	102	CL7	C3C-C2C	4.46	1.46	1.36
13	B	831	CL7	C3C-C2C	4.46	1.46	1.36
13	A	845	CL7	C3C-C2C	4.46	1.46	1.36
19	L	202	WVN	C19-C22	4.46	1.55	1.46
13	A	811	CL7	C3C-C2C	4.45	1.46	1.36
13	A	814	CL7	C3C-C2C	4.45	1.46	1.36
13	A	842	CL7	C3C-C2C	4.45	1.46	1.36
19	L	202	WVN	C14-C15	-4.44	1.42	1.51
13	A	832	CL7	O2D-CGD	4.44	1.44	1.33
13	A	831	CL7	C3C-C2C	4.44	1.46	1.36
13	B	813	CL7	C3C-C2C	4.44	1.46	1.36
13	A	810	CL7	C3C-C2C	4.44	1.46	1.36
13	L	201	CL7	CHC-C1C	4.44	1.47	1.38
14	L	208	LHG	O8-C23	4.43	1.46	1.33
13	B	811	CL7	C3C-C2C	4.43	1.46	1.36
13	B	821	CL7	CHD-C4C	4.43	1.47	1.38
13	A	812	CL7	C3C-C2C	4.43	1.46	1.36
13	A	829	CL7	C3C-C2C	4.43	1.46	1.36
13	B	837	CL7	C3C-C2C	4.42	1.46	1.36
13	B	802	CL7	C3C-C2C	4.42	1.46	1.36
13	A	807	CL7	C3C-C2C	4.42	1.46	1.36
13	A	809	CL7	C3C-C2C	4.42	1.46	1.36
13	A	839	CL7	C3C-C2C	4.42	1.46	1.36
13	B	832	CL7	C3C-C2C	4.42	1.46	1.36
19	M	101	WVN	C23-C25	4.42	1.55	1.46
19	A	852	WVN	C23-C25	4.42	1.55	1.46
13	A	803	CL7	C3C-C2C	4.41	1.46	1.36
13	A	822	CL7	C3C-C2C	4.41	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	836	CL7	CHD-C4C	4.41	1.47	1.38
13	B	846	CL7	CHC-C1C	4.41	1.47	1.38
22	B	845	K3I	C4-C5	-4.41	1.44	1.51
13	J	102	CL7	CHC-C1C	4.40	1.47	1.38
19	A	851	WVN	C12-C14	4.40	1.66	1.52
13	B	829	CL7	C3C-C2C	4.40	1.46	1.36
13	A	827	CL7	C3C-C2C	4.39	1.46	1.36
13	A	806	CL7	C3C-C2C	4.39	1.46	1.36
13	B	838	CL7	C3C-C2C	4.38	1.46	1.36
19	K	101	WVN	C31-C32	4.38	1.55	1.46
13	A	817	CL7	C3C-C2C	4.38	1.46	1.36
13	J	103	CL7	C3C-C2C	4.37	1.46	1.36
13	A	832	CL7	CHD-C4C	4.37	1.46	1.38
19	F	204	WVN	C31-C32	4.36	1.55	1.46
13	B	818	CL7	C3C-C2C	4.36	1.46	1.36
13	A	840	CL7	C3C-C2C	4.36	1.46	1.36
13	B	814	CL7	C3C-C2C	4.36	1.46	1.36
13	A	815	CL7	C3C-C2C	4.36	1.46	1.36
13	B	825	CL7	C3C-C2C	4.36	1.46	1.36
13	B	809	CL7	C3C-C2C	4.36	1.46	1.36
13	A	855	CL7	C3C-C2C	4.35	1.46	1.36
13	A	824	CL7	C3C-C2C	4.34	1.46	1.36
13	A	846	CL7	C3C-C2C	4.34	1.46	1.36
13	J	102	CL7	CHD-C4C	4.34	1.46	1.38
13	B	824	CL7	C3C-C2C	4.34	1.46	1.36
12	A	801	G9R	C3D-C4D	-4.32	1.34	1.44
13	A	808	CL7	C3C-C2C	4.32	1.46	1.36
13	A	843	CL7	C3C-C2C	4.31	1.46	1.36
13	B	815	CL7	C3C-C2C	4.31	1.46	1.36
13	B	829	CL7	CHC-C1C	4.30	1.46	1.38
13	B	817	CL7	C3C-C2C	4.30	1.46	1.36
13	B	807	CL7	C3C-C2C	4.30	1.46	1.36
13	B	810	CL7	C3C-C2C	4.30	1.46	1.36
13	A	841	CL7	C3C-C2C	4.29	1.46	1.36
19	B	847	WVN	C12-C14	4.29	1.65	1.52
13	A	813	CL7	C3C-C2C	4.29	1.46	1.36
19	A	850	WVN	C12-C14	4.29	1.65	1.52
19	K	101	WVN	C12-C14	4.29	1.65	1.52
12	A	801	G9R	C3C-C2C	4.29	1.46	1.36
19	F	204	WVN	C12-C14	4.29	1.65	1.52
13	B	803	CL7	CHD-C4C	4.28	1.46	1.38
19	A	850	WVN	C31-C32	4.28	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	853	WVN	C12-C14	4.27	1.65	1.52
13	L	201	CL7	C3C-C2C	4.27	1.46	1.36
13	A	816	CL7	C3C-C2C	4.26	1.46	1.36
13	A	819	CL7	C3C-C2C	4.26	1.46	1.36
13	A	823	CL7	C3C-C2C	4.26	1.46	1.36
19	F	205	WVN	C12-C14	4.25	1.65	1.52
13	B	846	CL7	CHB-C1B	4.25	1.49	1.39
13	B	806	CL7	C3C-C2C	4.23	1.45	1.36
13	L	204	CL7	C3C-C2C	4.23	1.45	1.36
13	B	803	CL7	C3C-C2C	4.23	1.45	1.36
20	L	203	LMG	O7-C10	4.23	1.46	1.34
13	B	812	CL7	C3C-C2C	4.23	1.45	1.36
13	B	804	CL7	C3C-C2C	4.23	1.45	1.36
20	B	827	LMG	O7-C10	4.23	1.46	1.34
13	A	815	CL7	MG-NC	4.22	2.14	2.05
19	A	854	WVN	C31-C32	4.22	1.55	1.46
13	A	802	CL7	C3C-C2C	4.22	1.45	1.36
13	B	843	CL7	C3C-C2C	4.22	1.45	1.36
20	L	203	LMG	O8-C28	4.22	1.45	1.33
13	B	808	CL7	C3C-C2C	4.21	1.45	1.36
19	A	853	WVN	C23-C25	4.21	1.55	1.46
13	B	823	CL7	C3C-C2C	4.20	1.45	1.36
13	A	839	CL7	MG-NC	4.20	2.14	2.05
13	A	818	CL7	C3C-C2C	4.20	1.45	1.36
12	A	801	G9R	CHD-C1D	4.20	1.46	1.38
14	A	820	LHG	O8-C23	4.19	1.45	1.33
13	B	841	CL7	CHD-C4C	4.19	1.46	1.38
19	J	104	WVN	C19-C22	4.19	1.54	1.46
19	A	854	WVN	C23-C25	4.18	1.54	1.46
19	L	209	WVN	C12-C14	4.18	1.65	1.52
13	B	822	CL7	C3C-C2C	4.17	1.45	1.36
13	B	804	CL7	MG-NC	4.17	2.14	2.05
19	L	210	WVN	C31-C32	4.17	1.54	1.46
13	A	837	CL7	C3C-C2C	4.16	1.45	1.36
19	L	209	WVN	C23-C25	4.16	1.54	1.46
13	B	805	CL7	C3C-C2C	4.16	1.45	1.36
13	A	832	CL7	C1D-ND	-4.15	1.32	1.37
19	I	101	WVN	C23-C25	4.14	1.54	1.46
19	A	852	WVN	C12-C14	4.14	1.65	1.52
13	B	842	CL7	CHD-C4C	4.14	1.48	1.38
19	M	101	WVN	C31-C32	4.13	1.54	1.46
19	A	851	WVN	C02-C11	4.12	1.56	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	L	202	WVN	C12-C14	4.12	1.65	1.52
13	B	841	CL7	C3C-C2C	4.12	1.45	1.36
19	B	848	WVN	C23-C25	4.11	1.54	1.46
19	A	854	WVN	C12-C14	4.11	1.65	1.52
19	L	209	WVN	C01-C02	-4.11	1.44	1.56
19	B	847	WVN	C31-C32	4.11	1.54	1.46
13	A	836	CL7	C3C-C2C	4.11	1.45	1.36
13	A	808	CL7	MG-NC	4.10	2.13	2.05
13	B	821	CL7	C3C-C2C	4.10	1.45	1.36
19	F	205	WVN	C30-C28	4.09	1.55	1.43
13	A	804	CL7	MG-NC	4.09	2.13	2.05
13	A	805	CL7	CHC-C4B	4.08	1.48	1.39
19	I	101	WVN	C31-C32	4.08	1.54	1.46
19	J	104	WVN	C12-C14	4.06	1.65	1.52
14	A	821	LHG	O8-C23	4.06	1.45	1.33
13	A	806	CL7	CHB-C1B	4.06	1.48	1.39
19	A	852	WVN	C01-C02	-4.05	1.45	1.56
13	A	806	CL7	MG-NC	4.05	2.13	2.05
19	F	204	WVN	C02-C11	4.05	1.56	1.50
13	A	816	CL7	MG-NC	4.04	2.13	2.05
13	F	201	CL7	MG-NC	4.04	2.13	2.05
19	I	101	WVN	C12-C14	4.04	1.65	1.52
13	B	821	CL7	CHC-C4B	4.04	1.48	1.39
13	B	822	CL7	MG-NC	4.03	2.13	2.05
13	A	803	CL7	CHC-C4B	4.03	1.48	1.39
19	A	851	WVN	C31-C32	4.02	1.54	1.46
13	A	824	CL7	CHC-C4B	4.02	1.48	1.39
19	J	104	WVN	C31-C32	4.02	1.54	1.46
13	A	827	CL7	MG-NC	4.02	2.13	2.05
19	B	847	WVN	C19-C22	4.02	1.54	1.46
13	A	817	CL7	MG-NC	4.02	2.13	2.05
13	L	204	CL7	MG-NC	4.02	2.13	2.05
13	L	207	CL7	CHB-C1B	4.01	1.48	1.39
13	B	802	CL7	MG-NC	4.01	2.13	2.05
13	J	102	CL7	MG-NC	4.01	2.13	2.05
20	B	827	LMG	O8-C28	4.01	1.45	1.33
13	A	802	CL7	MG-NC	4.01	2.13	2.05
13	B	843	CL7	CHC-C4B	4.00	1.48	1.39
13	A	802	CL7	CHB-C1B	4.00	1.48	1.39
22	B	845	K3I	C29-C28	4.00	1.54	1.46
13	B	829	CL7	MG-NC	4.00	2.13	2.05
19	M	101	WVN	C01-C02	-4.00	1.45	1.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	853	WVN	C01-C02	-4.00	1.45	1.56
13	A	830	CL7	MG-NC	4.00	2.13	2.05
13	A	817	CL7	CHC-C4B	3.99	1.48	1.39
13	B	828	CL7	CHC-C4B	3.99	1.48	1.39
19	A	852	WVN	C31-C32	3.99	1.54	1.46
13	F	206	CL7	CHC-C4B	3.99	1.48	1.39
12	A	801	G9R	CHB-C1B	3.99	1.48	1.39
13	B	838	CL7	MG-NC	3.99	2.13	2.05
14	A	820	LHG	O7-C7	3.99	1.45	1.34
19	B	847	WVN	C01-C02	-3.99	1.45	1.56
13	B	810	CL7	MG-NC	3.98	2.13	2.05
19	J	101	WVN	C12-C14	3.98	1.64	1.52
13	B	834	CL7	CHC-C4B	3.98	1.48	1.39
22	B	845	K3I	C25-C23	3.97	1.54	1.46
13	B	813	CL7	CHC-C4B	3.97	1.48	1.39
13	B	811	CL7	MG-NC	3.97	2.13	2.05
13	F	202	CL7	MG-NC	3.97	2.13	2.05
13	A	810	CL7	CHC-C4B	3.97	1.48	1.39
13	B	819	CL7	CHC-C4B	3.97	1.48	1.39
13	B	842	CL7	CHC-C1C	3.96	1.48	1.38
13	B	814	CL7	MG-NC	3.96	2.13	2.05
13	K	102	CL7	CHC-C4B	3.96	1.48	1.39
13	B	811	CL7	CHC-C4B	3.96	1.48	1.39
19	F	205	WVN	C01-C02	-3.96	1.45	1.56
13	L	201	CL7	MG-NC	3.96	2.13	2.05
19	F	205	WVN	C29-C26	3.95	1.55	1.43
13	B	841	CL7	MG-NC	3.95	2.13	2.05
13	B	816	CL7	MG-NC	3.95	2.13	2.05
13	A	843	CL7	MG-NC	3.95	2.13	2.05
13	A	818	CL7	MG-NC	3.95	2.13	2.05
19	A	851	WVN	C19-C22	3.95	1.54	1.46
13	B	829	CL7	CHD-C1D	3.94	1.48	1.39
19	J	104	WVN	C30-C28	3.94	1.55	1.43
13	A	836	CL7	CHC-C4B	3.94	1.48	1.39
19	J	101	WVN	C19-C22	3.94	1.54	1.46
13	A	848	CL7	CHC-C4B	3.94	1.48	1.39
13	A	840	CL7	CHC-C4B	3.93	1.48	1.39
19	J	101	WVN	C31-C32	3.93	1.54	1.46
13	A	813	CL7	CHC-C4B	3.93	1.48	1.39
13	A	838	CL7	MG-NC	3.93	2.13	2.05
13	B	840	CL7	CHC-C4B	3.93	1.48	1.39
13	A	855	CL7	MG-NC	3.92	2.13	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	812	CL7	CHC-C4B	3.92	1.48	1.39
13	A	836	CL7	MG-NC	3.92	2.13	2.05
13	B	837	CL7	CHC-C4B	3.92	1.48	1.39
13	B	841	CL7	CHC-C4B	3.92	1.48	1.39
13	A	808	CL7	CHC-C4B	3.92	1.48	1.39
13	B	826	CL7	MG-NC	3.92	2.13	2.05
13	B	809	CL7	CHC-C4B	3.92	1.48	1.39
13	F	201	CL7	CHC-C4B	3.91	1.48	1.39
13	B	823	CL7	MG-NC	3.91	2.13	2.05
20	L	203	LMG	C22-C21	-3.91	1.32	1.51
19	M	101	WVN	C12-C14	3.91	1.64	1.52
13	B	825	CL7	CHC-C4B	3.91	1.48	1.39
13	K	102	CL7	MG-NC	3.91	2.13	2.05
13	B	837	CL7	MG-NC	3.90	2.13	2.05
14	L	208	LHG	O7-C7	3.90	1.45	1.34
13	A	845	CL7	CHC-C4B	3.90	1.48	1.39
13	L	204	CL7	CHC-C4B	3.90	1.48	1.39
19	K	101	WVN	C01-C02	-3.90	1.45	1.56
19	F	204	WVN	C19-C22	3.90	1.54	1.46
13	A	855	CL7	CHC-C4B	3.90	1.48	1.39
13	B	831	CL7	CHB-C1B	3.89	1.48	1.39
19	J	101	WVN	C30-C28	3.89	1.55	1.43
19	A	850	WVN	C01-C02	-3.88	1.45	1.56
13	A	812	CL7	MG-NC	3.88	2.13	2.05
13	B	830	CL7	MG-NC	3.88	2.13	2.05
13	K	103	CL7	MG-NC	3.88	2.13	2.05
19	B	848	WVN	C31-C32	3.88	1.54	1.46
13	B	842	CL7	C3B-C4B	3.88	1.48	1.40
13	J	103	CL7	MG-NC	3.88	2.13	2.05
19	B	847	WVN	C29-C26	3.88	1.55	1.43
13	B	809	CL7	MG-NC	3.88	2.13	2.05
13	L	207	CL7	MG-NC	3.88	2.13	2.05
19	F	205	WVN	C39-C36	3.88	1.55	1.43
13	A	825	CL7	MG-NC	3.88	2.13	2.05
13	A	841	CL7	CHC-C4B	3.88	1.48	1.39
13	A	835	CL7	CHC-C4B	3.87	1.48	1.39
13	A	816	CL7	CHB-C1B	3.87	1.48	1.39
13	B	833	CL7	MG-NC	3.87	2.13	2.05
13	B	802	CL7	CHC-C4B	3.87	1.48	1.39
13	J	103	CL7	CHC-C4B	3.87	1.48	1.39
13	A	810	CL7	MG-NC	3.87	2.13	2.05
13	B	812	CL7	MG-NC	3.87	2.13	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	853	WVN	C19-C22	3.87	1.54	1.46
13	B	831	CL7	CHC-C4B	3.87	1.48	1.39
13	A	802	CL7	CHC-C4B	3.87	1.48	1.39
13	A	838	CL7	CHC-C4B	3.87	1.48	1.39
13	B	807	CL7	MG-NC	3.87	2.13	2.05
13	B	816	CL7	CHC-C4B	3.86	1.48	1.39
13	K	103	CL7	CHC-C4B	3.86	1.48	1.39
13	A	837	CL7	C1C-NC	-3.86	1.32	1.37
13	B	834	CL7	MG-NC	3.86	2.13	2.05
13	B	824	CL7	MG-NC	3.86	2.13	2.05
22	B	845	K3I	C11-C10	3.86	1.55	1.43
13	B	805	CL7	CHB-C1B	3.86	1.48	1.39
22	B	845	K3I	C34-C33	-3.86	1.45	1.51
13	A	814	CL7	MG-NC	3.86	2.13	2.05
13	A	804	CL7	CHC-C4B	3.86	1.48	1.39
13	B	838	CL7	CHC-C4B	3.86	1.48	1.39
19	L	202	WVN	C29-C26	3.85	1.55	1.43
13	A	840	CL7	MG-NC	3.85	2.13	2.05
13	F	202	CL7	CHC-C4B	3.85	1.48	1.39
13	B	803	CL7	CHC-C4B	3.85	1.48	1.39
19	A	854	WVN	C19-C22	3.85	1.54	1.46
13	A	823	CL7	MG-NC	3.85	2.13	2.05
13	L	204	CL7	CHB-C1B	3.85	1.48	1.39
13	A	819	CL7	CHC-C4B	3.85	1.48	1.39
13	B	840	CL7	MG-NC	3.85	2.13	2.05
13	B	807	CL7	CHB-C1B	3.84	1.48	1.39
13	B	808	CL7	CHC-C4B	3.84	1.48	1.39
13	A	812	CL7	CHB-C1B	3.84	1.48	1.39
13	B	808	CL7	MG-NC	3.84	2.13	2.05
13	B	831	CL7	MG-NC	3.84	2.13	2.05
13	B	842	CL7	MG-NC	3.84	2.13	2.05
13	B	817	CL7	CHC-C4B	3.84	1.48	1.39
13	B	814	CL7	CHB-C1B	3.84	1.48	1.39
13	A	815	CL7	CHC-C4B	3.84	1.48	1.39
13	B	823	CL7	CHC-C4B	3.84	1.48	1.39
13	A	807	CL7	CHB-C1B	3.83	1.48	1.39
13	A	828	CL7	CHC-C4B	3.83	1.48	1.39
19	K	101	WVN	C19-C22	3.83	1.54	1.46
19	B	848	WVN	C30-C28	3.83	1.55	1.43
19	F	205	WVN	C40-C37	3.83	1.55	1.43
19	L	210	WVN	C19-C22	3.83	1.54	1.46
13	A	803	CL7	MG-NC	3.83	2.13	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	832	CL7	CHC-C4B	3.83	1.48	1.39
19	B	848	WVN	C12-C14	3.82	1.64	1.52
13	A	809	CL7	CHC-C4B	3.82	1.48	1.39
13	B	826	CL7	CHB-C1B	3.82	1.48	1.39
13	A	829	CL7	MG-NC	3.82	2.13	2.05
13	B	826	CL7	CHC-C4B	3.82	1.48	1.39
13	A	824	CL7	MG-NC	3.82	2.13	2.05
19	A	854	WVN	C29-C26	3.81	1.55	1.43
14	A	821	LHG	O7-C7	3.81	1.45	1.34
19	A	850	WVN	C30-C28	3.81	1.55	1.43
13	B	815	CL7	MG-NC	3.81	2.13	2.05
13	J	102	CL7	C3C-C2C	3.81	1.45	1.36
13	A	843	CL7	CHC-C4B	3.81	1.48	1.39
13	A	845	CL7	MG-NC	3.81	2.13	2.05
13	A	843	CL7	CHB-C1B	3.81	1.48	1.39
13	A	841	CL7	CHB-C1B	3.81	1.48	1.39
13	A	828	CL7	MG-NC	3.81	2.13	2.05
13	L	205	CL7	MG-NC	3.81	2.13	2.05
13	A	827	CL7	CHC-C4B	3.80	1.47	1.39
19	K	101	WVN	C30-C28	3.80	1.55	1.43
13	A	832	CL7	MG-NC	3.80	2.13	2.05
13	A	831	CL7	MG-NC	3.80	2.13	2.05
20	B	827	LMG	C19-C18	-3.80	1.32	1.51
19	A	854	WVN	C01-C02	-3.80	1.45	1.56
13	I	102	CL7	MG-NC	3.80	2.13	2.05
13	B	804	CL7	CHC-C4B	3.80	1.47	1.39
13	B	825	CL7	MG-NC	3.80	2.13	2.05
13	A	811	CL7	MG-NC	3.79	2.13	2.05
13	A	837	CL7	CHC-C4B	3.79	1.47	1.39
13	A	822	CL7	MG-NC	3.79	2.13	2.05
13	B	832	CL7	MG-NC	3.79	2.13	2.05
13	A	848	CL7	MG-NC	3.79	2.13	2.05
22	B	845	K3I	C36-C37	3.79	1.66	1.54
13	A	810	CL7	CHB-C1B	3.79	1.47	1.39
19	F	204	WVN	C14-C15	-3.79	1.43	1.51
13	A	829	CL7	CHC-C4B	3.79	1.47	1.39
12	A	801	G9R	CHC-C4B	3.79	1.47	1.39
13	B	830	CL7	CHC-C4B	3.79	1.47	1.39
13	B	821	CL7	MG-NC	3.79	2.13	2.05
13	B	828	CL7	CHB-C1B	3.78	1.47	1.39
19	M	101	WVN	C19-C22	3.78	1.54	1.46
13	A	808	CL7	CHB-C1B	3.78	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	830	CL7	CHB-C1B	3.78	1.47	1.39
19	A	854	WVN	C39-C36	3.78	1.54	1.43
13	B	824	CL7	CHD-C1D	3.78	1.47	1.39
13	B	803	CL7	MG-NC	3.78	2.13	2.05
13	B	817	CL7	MG-NC	3.78	2.13	2.05
13	A	836	CL7	CHB-C1B	3.78	1.47	1.39
13	B	813	CL7	CHB-C1B	3.78	1.47	1.39
19	A	852	WVN	C19-C22	3.77	1.54	1.46
13	A	814	CL7	CHC-C4B	3.77	1.47	1.39
13	A	825	CL7	CHC-C4B	3.77	1.47	1.39
13	B	803	CL7	CHB-C1B	3.77	1.47	1.39
20	B	827	LMG	C43-C42	-3.77	1.33	1.51
13	B	821	CL7	CHB-C1B	3.77	1.47	1.39
13	A	812	CL7	CHC-C4B	3.77	1.47	1.39
13	B	838	CL7	CHB-C1B	3.77	1.47	1.39
13	B	806	CL7	CHC-C4B	3.77	1.47	1.39
13	B	810	CL7	CHB-C1B	3.77	1.47	1.39
13	J	102	CL7	C1C-NC	-3.77	1.32	1.37
19	A	850	WVN	C29-C26	3.77	1.54	1.43
20	B	827	LMG	C37-C36	-3.77	1.33	1.51
13	A	831	CL7	CHC-C4B	3.76	1.47	1.39
13	B	805	CL7	MG-NC	3.76	2.13	2.05
13	A	806	CL7	CHC-C4B	3.76	1.47	1.39
13	A	813	CL7	CHB-C1B	3.76	1.47	1.39
13	A	809	CL7	MG-NC	3.76	2.13	2.05
13	B	816	CL7	CHB-C1B	3.76	1.47	1.39
13	A	855	CL7	CHB-C1B	3.75	1.47	1.39
13	A	807	CL7	MG-NC	3.75	2.13	2.05
13	A	832	CL7	C1C-NC	-3.75	1.32	1.37
13	A	809	CL7	CHB-C1B	3.75	1.47	1.39
13	J	102	CL7	CHC-C4B	3.75	1.47	1.39
13	A	842	CL7	CHC-C4B	3.75	1.47	1.39
13	A	807	CL7	CHC-C4B	3.75	1.47	1.39
13	B	809	CL7	CHB-C1B	3.75	1.47	1.39
13	F	201	CL7	CHB-C1B	3.75	1.47	1.39
20	L	203	LMG	C19-C18	-3.75	1.33	1.51
13	B	833	CL7	CHC-C4B	3.75	1.47	1.39
19	F	204	WVN	C29-C26	3.75	1.54	1.43
13	B	843	CL7	MG-NC	3.74	2.13	2.05
13	B	814	CL7	CHC-C4B	3.74	1.47	1.39
13	B	843	CL7	OBD-CAD	3.74	1.28	1.22
13	B	833	CL7	CHB-C1B	3.74	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	K	102	CL7	CHB-C1B	3.74	1.47	1.39
13	F	206	CL7	MG-NC	3.74	2.13	2.05
13	I	102	CL7	CHC-C4B	3.74	1.47	1.39
13	B	818	CL7	MG-NC	3.74	2.13	2.05
13	A	825	CL7	CHB-C1B	3.74	1.47	1.39
13	A	822	CL7	CHC-C4B	3.74	1.47	1.39
13	B	840	CL7	CHB-C1B	3.74	1.47	1.39
13	B	817	CL7	CHB-C1B	3.73	1.47	1.39
13	B	811	CL7	CHB-C1B	3.73	1.47	1.39
13	K	103	CL7	CHB-C1B	3.73	1.47	1.39
19	L	210	WVN	C30-C28	3.73	1.54	1.43
13	B	813	CL7	MG-NC	3.73	2.13	2.05
19	A	852	WVN	C30-C28	3.73	1.54	1.43
13	B	834	CL7	CHD-C1D	3.73	1.47	1.39
13	A	811	CL7	CHC-C4B	3.73	1.47	1.39
13	L	205	CL7	CHC-C4B	3.72	1.47	1.39
13	B	838	CL7	OBD-CAD	3.72	1.28	1.22
13	B	840	CL7	CHD-C1D	3.72	1.47	1.39
13	I	102	CL7	CHB-C1B	3.72	1.47	1.39
19	J	101	WVN	C29-C26	3.72	1.54	1.43
13	B	846	CL7	MG-NC	3.72	2.13	2.05
13	J	103	CL7	OBD-CAD	3.72	1.28	1.22
13	K	102	CL7	OBD-CAD	3.72	1.28	1.22
13	A	818	CL7	CHB-C1B	3.72	1.47	1.39
13	L	207	CL7	CHC-C4B	3.72	1.47	1.39
13	A	804	CL7	CHB-C1B	3.72	1.47	1.39
13	F	202	CL7	OBD-CAD	3.72	1.28	1.22
13	A	813	CL7	MG-NC	3.72	2.13	2.05
13	A	827	CL7	CHB-C1B	3.71	1.47	1.39
19	A	853	WVN	C30-C28	3.71	1.54	1.43
13	A	848	CL7	CHB-C1B	3.70	1.47	1.39
13	B	824	CL7	OBD-CAD	3.70	1.28	1.22
13	B	830	CL7	OBD-CAD	3.70	1.28	1.22
13	A	846	CL7	CHB-C1B	3.70	1.47	1.39
13	A	839	CL7	CHC-C4B	3.70	1.47	1.39
13	B	822	CL7	CHB-C1B	3.70	1.47	1.39
13	F	202	CL7	CHB-C1B	3.70	1.47	1.39
13	A	815	CL7	CHB-C1B	3.70	1.47	1.39
13	A	803	CL7	CHB-C1B	3.69	1.47	1.39
19	A	852	WVN	C39-C36	3.69	1.54	1.43
19	I	101	WVN	C01-C02	-3.69	1.46	1.56
13	A	855	CL7	OBD-CAD	3.69	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	851	WVN	C40-C37	3.69	1.54	1.43
13	B	807	CL7	CHC-C4B	3.69	1.47	1.39
13	A	817	CL7	CHB-C1B	3.69	1.47	1.39
19	J	104	WVN	C14-C15	-3.69	1.44	1.51
19	A	854	WVN	C14-C15	-3.68	1.44	1.51
13	A	832	CL7	CHC-C4B	3.68	1.47	1.39
13	A	831	CL7	CHB-C1B	3.68	1.47	1.39
13	B	824	CL7	CHB-C1B	3.68	1.47	1.39
20	B	827	LMG	C25-C24	-3.68	1.33	1.51
13	I	102	CL7	OBD-CAD	3.68	1.28	1.22
13	A	842	CL7	MG-NC	3.68	2.13	2.05
13	A	829	CL7	CHB-C1B	3.68	1.47	1.39
13	A	832	CL7	C3C-C2C	3.67	1.44	1.36
13	A	846	CL7	MG-NC	3.67	2.13	2.05
19	J	104	WVN	C29-C26	3.67	1.54	1.43
13	B	825	CL7	CHB-C1B	3.67	1.47	1.39
13	A	822	CL7	C1C-NC	-3.67	1.33	1.37
20	B	827	LMG	C40-C39	-3.67	1.33	1.51
13	B	834	CL7	CHB-C1B	3.67	1.47	1.39
13	B	834	CL7	OBD-CAD	3.66	1.28	1.22
13	B	828	CL7	MG-NC	3.66	2.13	2.05
13	B	824	CL7	CHC-C4B	3.66	1.47	1.39
13	B	815	CL7	C1B-NB	-3.66	1.33	1.37
20	B	827	LMG	C22-C21	-3.66	1.33	1.51
19	F	204	WVN	C30-C28	3.66	1.54	1.43
13	A	830	CL7	CHB-C1B	3.65	1.47	1.39
19	A	851	WVN	C30-C28	3.65	1.54	1.43
13	B	808	CL7	CHB-C1B	3.65	1.47	1.39
13	J	103	CL7	CHB-C1B	3.65	1.47	1.39
13	A	832	CL7	CHB-C1B	3.65	1.47	1.39
13	B	819	CL7	CHD-C1D	3.65	1.47	1.39
19	J	104	WVN	C39-C36	3.65	1.54	1.43
13	A	841	CL7	MG-NC	3.65	2.13	2.05
13	B	846	CL7	OBD-CAD	3.65	1.28	1.22
19	A	852	WVN	C29-C26	3.65	1.54	1.43
13	A	831	CL7	OBD-CAD	3.65	1.28	1.22
19	J	101	WVN	C01-C02	-3.65	1.46	1.56
19	A	853	WVN	C31-C32	3.65	1.53	1.46
13	A	846	CL7	C1C-NC	-3.64	1.33	1.37
13	A	830	CL7	CHC-C4B	3.64	1.47	1.39
13	A	835	CL7	MG-NC	3.64	2.13	2.05
13	B	837	CL7	OBD-CAD	3.64	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	848	CL7	OBD-CAD	3.64	1.28	1.22
13	B	822	CL7	CHC-C4B	3.64	1.47	1.39
13	A	837	CL7	CHB-C1B	3.64	1.47	1.39
13	A	816	CL7	CHC-C4B	3.64	1.47	1.39
19	F	205	WVN	C33-C34	3.64	1.53	1.46
13	K	103	CL7	CHD-C1D	3.63	1.47	1.39
13	A	805	CL7	CHB-C1B	3.63	1.47	1.39
13	A	840	CL7	OBD-CAD	3.63	1.28	1.22
13	B	812	CL7	CHB-C1B	3.63	1.47	1.39
22	B	845	K3I	C26-C27	3.63	1.54	1.43
13	B	815	CL7	CHB-C1B	3.63	1.47	1.39
13	B	804	CL7	CHB-C1B	3.63	1.47	1.39
13	B	810	CL7	CHC-C4B	3.62	1.47	1.39
13	B	823	CL7	CHB-C1B	3.62	1.47	1.39
13	B	815	CL7	CHC-C4B	3.62	1.47	1.39
13	A	819	CL7	MG-NC	3.62	2.13	2.05
13	L	201	CL7	CHB-C1B	3.62	1.47	1.39
13	F	206	CL7	OBD-CAD	3.62	1.28	1.22
13	A	828	CL7	CHB-C1B	3.62	1.47	1.39
13	B	846	CL7	CHC-C4B	3.61	1.47	1.39
13	B	833	CL7	OBD-CAD	3.61	1.28	1.22
19	F	205	WVN	C14-C15	-3.61	1.44	1.51
13	B	810	CL7	OBD-CAD	3.61	1.28	1.22
20	L	203	LMG	C37-C36	-3.61	1.33	1.51
13	A	845	CL7	CHB-C1B	3.61	1.47	1.39
13	A	839	CL7	CHB-C1B	3.61	1.47	1.39
13	B	816	CL7	OBD-CAD	3.61	1.28	1.22
13	B	841	CL7	CHB-C1B	3.61	1.47	1.39
13	A	838	CL7	CHB-C1B	3.60	1.47	1.39
13	B	809	CL7	OBD-CAD	3.60	1.28	1.22
13	B	826	CL7	OBD-CAD	3.60	1.28	1.22
13	A	819	CL7	CHB-C1B	3.60	1.47	1.39
13	B	830	CL7	CHD-C1D	3.60	1.47	1.39
19	M	101	WVN	C02-C11	3.60	1.55	1.50
13	F	202	CL7	CHD-C1D	3.60	1.47	1.39
13	A	805	CL7	MG-NC	3.60	2.12	2.05
13	A	822	CL7	CHB-C1B	3.60	1.47	1.39
13	F	206	CL7	CHB-C1B	3.59	1.47	1.39
13	B	837	CL7	CHB-C1B	3.59	1.47	1.39
13	B	806	CL7	MG-NC	3.59	2.12	2.05
13	A	823	CL7	CHC-C4B	3.59	1.47	1.39
19	F	204	WVN	C01-C02	-3.59	1.46	1.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	829	CL7	OBD-CAD	3.59	1.28	1.22
13	B	833	CL7	CHD-C1D	3.59	1.47	1.39
13	A	842	CL7	CHB-C1B	3.59	1.47	1.39
13	B	841	CL7	OBD-CAD	3.58	1.28	1.22
13	B	838	CL7	CHD-C1D	3.58	1.47	1.39
19	L	209	WVN	C19-C22	3.58	1.53	1.46
19	B	848	WVN	C19-C22	3.58	1.53	1.46
13	A	814	CL7	CHB-C1B	3.58	1.47	1.39
13	A	832	CL7	C4C-NC	-3.58	1.33	1.37
13	B	803	CL7	C1C-NC	-3.57	1.33	1.37
22	B	845	K3I	C21-C22	3.57	1.54	1.43
13	A	824	CL7	OBD-CAD	3.57	1.28	1.22
19	A	854	WVN	C30-C28	3.57	1.54	1.43
13	B	818	CL7	CHC-C4B	3.57	1.47	1.39
13	L	205	CL7	CHB-C1B	3.57	1.47	1.39
18	A	849	PHO	C1B-C2B	3.56	1.43	1.39
13	B	818	CL7	CHB-C1B	3.56	1.47	1.39
13	A	828	CL7	OBD-CAD	3.56	1.28	1.22
13	A	846	CL7	OBD-CAD	3.56	1.28	1.22
13	A	840	CL7	CHD-C1D	3.56	1.47	1.39
19	J	101	WVN	C02-C11	3.56	1.55	1.50
19	K	101	WVN	C29-C26	3.55	1.54	1.43
19	J	101	WVN	C39-C36	3.55	1.54	1.43
13	A	845	CL7	OBD-CAD	3.55	1.28	1.22
13	B	829	CL7	CHB-C1B	3.54	1.47	1.39
13	A	824	CL7	CHB-C1B	3.54	1.47	1.39
19	L	209	WVN	C30-C28	3.54	1.54	1.43
13	B	832	CL7	CHB-C1B	3.54	1.47	1.39
13	B	816	CL7	CHD-C1D	3.54	1.47	1.39
13	B	819	CL7	MG-NC	3.53	2.12	2.05
13	A	809	CL7	OBD-CAD	3.53	1.28	1.22
19	I	101	WVN	C29-C26	3.53	1.54	1.43
13	A	846	CL7	CHC-C4B	3.53	1.47	1.39
13	A	822	CL7	CHD-C1D	3.52	1.47	1.39
19	A	854	WVN	C40-C37	3.52	1.54	1.43
13	A	835	CL7	OBD-CAD	3.52	1.28	1.22
12	A	801	G9R	CHD-C4C	3.52	1.47	1.39
13	B	811	CL7	CHD-C1D	3.52	1.47	1.39
13	A	835	CL7	CHB-C1B	3.52	1.47	1.39
19	I	101	WVN	C19-C22	3.51	1.53	1.46
13	B	843	CL7	CHB-C1B	3.51	1.47	1.39
13	B	805	CL7	CHC-C4B	3.51	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	851	WVN	C29-C26	3.51	1.54	1.43
13	B	831	CL7	OBD-CAD	3.51	1.28	1.22
13	B	817	CL7	OBD-CAD	3.51	1.28	1.22
13	J	103	CL7	CHD-C1D	3.51	1.47	1.39
13	A	825	CL7	OBD-CAD	3.50	1.28	1.22
13	A	838	CL7	CHD-C1D	3.50	1.47	1.39
13	A	818	CL7	CHC-C4B	3.50	1.47	1.39
13	F	201	CL7	OBD-CAD	3.50	1.28	1.22
13	B	802	CL7	OBD-CAD	3.50	1.28	1.22
13	A	803	CL7	OBD-CAD	3.49	1.28	1.22
19	B	847	WVN	C39-C36	3.49	1.54	1.43
13	A	804	CL7	OBD-CAD	3.49	1.28	1.22
13	A	818	CL7	OBD-CAD	3.49	1.28	1.22
13	A	831	CL7	CHD-C1D	3.49	1.47	1.39
19	A	853	WVN	C29-C26	3.49	1.54	1.43
19	A	850	WVN	C39-C36	3.48	1.54	1.43
13	A	835	CL7	CHD-C1D	3.48	1.47	1.39
13	B	832	CL7	CHD-C1D	3.48	1.47	1.39
13	B	802	CL7	CHB-C1B	3.48	1.47	1.39
13	I	102	CL7	CHD-C1D	3.48	1.47	1.39
13	A	829	CL7	CHD-C1D	3.48	1.47	1.39
19	F	205	WVN	C02-C11	3.48	1.55	1.50
13	B	809	CL7	CHD-C1D	3.47	1.47	1.39
19	B	847	WVN	C30-C28	3.47	1.54	1.43
13	L	201	CL7	CHC-C4B	3.47	1.47	1.39
13	A	811	CL7	CHB-C1B	3.47	1.47	1.39
19	A	851	WVN	C39-C36	3.47	1.53	1.43
19	I	101	WVN	C39-C36	3.47	1.53	1.43
13	B	806	CL7	OBD-CAD	3.47	1.28	1.22
13	B	825	CL7	CHD-C1D	3.47	1.47	1.39
13	A	848	CL7	CHD-C1D	3.47	1.47	1.39
19	L	210	WVN	C29-C26	3.47	1.53	1.43
13	A	811	CL7	CHD-C1D	3.46	1.47	1.39
13	B	813	CL7	OBD-CAD	3.46	1.28	1.22
19	L	202	WVN	C23-C25	3.46	1.53	1.46
13	L	204	CL7	OBD-CAD	3.46	1.28	1.22
13	B	806	CL7	CHB-C1B	3.46	1.47	1.39
13	B	802	CL7	C1D-ND	-3.46	1.33	1.37
19	A	853	WVN	C14-C15	-3.46	1.44	1.51
13	A	815	CL7	OBD-CAD	3.45	1.28	1.22
13	B	815	CL7	CHD-C1D	3.45	1.47	1.39
19	A	851	WVN	C33-C34	3.44	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	F	206	CL7	CHD-C1D	3.44	1.47	1.39
13	A	832	CL7	C1B-NB	-3.44	1.33	1.37
13	A	823	CL7	CHB-C1B	3.44	1.47	1.39
13	A	827	CL7	CHD-C1D	3.43	1.47	1.39
13	B	825	CL7	OBD-CAD	3.43	1.28	1.22
13	A	819	CL7	CHD-C1D	3.43	1.47	1.39
13	K	102	CL7	CHD-C1D	3.43	1.47	1.39
13	B	812	CL7	OBD-CAD	3.43	1.28	1.22
19	L	210	WVN	C02-C11	3.43	1.55	1.50
13	B	829	CL7	OBD-CAD	3.43	1.28	1.22
13	A	811	CL7	OBD-CAD	3.42	1.28	1.22
13	B	818	CL7	OBD-CAD	3.42	1.28	1.22
13	A	830	CL7	OBD-CAD	3.42	1.28	1.22
13	A	827	CL7	OBD-CAD	3.42	1.28	1.22
19	J	104	WVN	C40-C37	3.42	1.53	1.43
19	B	848	WVN	C14-C15	-3.42	1.44	1.51
13	A	842	CL7	OBD-CAD	3.42	1.28	1.22
13	A	804	CL7	CHD-C1D	3.42	1.47	1.39
22	B	845	K3I	C15-C14	3.41	1.53	1.43
13	A	816	CL7	CHD-C1D	3.41	1.47	1.39
13	A	823	CL7	OBD-CAD	3.41	1.28	1.22
13	B	810	CL7	CHD-C1D	3.40	1.47	1.39
22	B	845	K3I	C2-C1	3.40	1.65	1.54
13	A	845	CL7	CHD-C1D	3.40	1.47	1.39
13	J	102	CL7	CHB-C1B	3.40	1.47	1.39
19	K	101	WVN	C39-C36	3.40	1.53	1.43
13	A	803	CL7	CHD-C1D	3.40	1.47	1.39
13	B	818	CL7	CHD-C1D	3.40	1.47	1.39
19	K	101	WVN	C02-C11	3.39	1.55	1.50
13	B	846	CL7	CHD-C1D	3.39	1.47	1.39
13	B	817	CL7	CHD-C1D	3.39	1.47	1.39
13	A	824	CL7	CHD-C1D	3.39	1.47	1.39
13	A	806	CL7	OBD-CAD	3.39	1.28	1.22
19	B	848	WVN	C33-C34	3.39	1.53	1.46
13	A	828	CL7	CHD-C1D	3.39	1.47	1.39
13	A	807	CL7	OBD-CAD	3.39	1.28	1.22
13	B	829	CL7	C1C-NC	-3.38	1.33	1.37
13	B	828	CL7	OBD-CAD	3.38	1.28	1.22
19	A	851	WVN	C14-C15	-3.38	1.44	1.51
13	L	205	CL7	C1C-NC	-3.38	1.33	1.37
13	A	840	CL7	CHB-C1B	3.37	1.47	1.39
13	B	819	CL7	OBD-CAD	3.37	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	805	CL7	CHD-C1D	3.37	1.47	1.39
19	L	202	WVN	C39-C36	3.37	1.53	1.43
19	J	104	WVN	C20-C13	3.37	1.56	1.45
13	A	837	CL7	MG-NC	3.37	2.12	2.05
19	L	210	WVN	C20-C13	3.37	1.56	1.45
19	J	101	WVN	C14-C15	-3.36	1.44	1.51
13	B	803	CL7	OBD-CAD	3.36	1.28	1.22
13	L	201	CL7	C1C-NC	-3.35	1.33	1.37
13	A	806	CL7	CHD-C1D	3.34	1.46	1.39
13	A	823	CL7	C1C-NC	-3.34	1.33	1.37
13	A	846	CL7	CHD-C1D	3.34	1.46	1.39
13	B	806	CL7	C1C-NC	-3.34	1.33	1.37
13	B	819	CL7	CHB-C1B	3.34	1.46	1.39
13	B	837	CL7	CHD-C1D	3.33	1.46	1.39
13	A	822	CL7	OBD-CAD	3.33	1.28	1.22
19	A	854	WVN	C02-C11	3.33	1.55	1.50
13	B	823	CL7	CHD-C1D	3.33	1.46	1.39
13	A	836	CL7	C1D-ND	-3.33	1.33	1.37
13	A	855	CL7	CHD-C1D	3.33	1.46	1.39
13	B	840	CL7	C1D-C2D	3.33	1.50	1.43
13	B	811	CL7	OBD-CAD	3.33	1.28	1.22
13	A	808	CL7	CHD-C1D	3.33	1.46	1.39
13	A	830	CL7	CHD-C1D	3.33	1.46	1.39
13	B	828	CL7	CHD-C1D	3.33	1.46	1.39
13	A	808	CL7	OBD-CAD	3.32	1.28	1.22
13	A	812	CL7	CHD-C1D	3.32	1.46	1.39
13	A	814	CL7	OBD-CAD	3.32	1.28	1.22
13	B	841	CL7	C1D-ND	-3.32	1.33	1.37
19	M	101	WVN	C29-C26	3.32	1.53	1.43
13	A	805	CL7	OBD-CAD	3.32	1.28	1.22
13	L	207	CL7	OBD-CAD	3.31	1.28	1.22
13	F	201	CL7	CHD-C1D	3.31	1.46	1.39
13	A	810	CL7	CHD-C1D	3.31	1.46	1.39
19	J	104	WVN	C01-C02	-3.31	1.47	1.56
19	J	104	WVN	C33-C34	3.31	1.53	1.46
13	B	843	CL7	CHD-C1D	3.31	1.46	1.39
13	A	810	CL7	OBD-CAD	3.31	1.28	1.22
13	A	840	CL7	C1C-NC	-3.31	1.33	1.37
13	A	843	CL7	C1D-ND	-3.31	1.33	1.37
13	B	813	CL7	CHD-C1D	3.30	1.46	1.39
13	A	815	CL7	CHD-C1D	3.30	1.46	1.39
13	A	842	CL7	CHD-C1D	3.30	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B	848	WVN	C02-C11	3.30	1.55	1.50
19	A	853	WVN	C20-C13	3.30	1.56	1.45
13	B	812	CL7	CHD-C1D	3.30	1.46	1.39
19	L	209	WVN	C29-C26	3.30	1.53	1.43
13	A	841	CL7	OBD-CAD	3.30	1.28	1.22
13	A	807	CL7	CHD-C1D	3.29	1.46	1.39
13	B	808	CL7	CHD-C1D	3.29	1.46	1.39
13	A	819	CL7	OBD-CAD	3.29	1.28	1.22
13	B	832	CL7	OBD-CAD	3.29	1.28	1.22
19	F	205	WVN	C20-C13	3.29	1.56	1.45
13	A	823	CL7	CHD-C1D	3.28	1.46	1.39
13	A	838	CL7	OBD-CAD	3.28	1.28	1.22
19	A	852	WVN	C02-C11	3.28	1.55	1.50
13	A	825	CL7	CHD-C1D	3.28	1.46	1.39
19	A	852	WVN	C14-C15	-3.28	1.44	1.51
19	J	101	WVN	C40-C37	3.28	1.53	1.43
13	A	806	CL7	C1C-NC	-3.27	1.33	1.37
19	A	853	WVN	C40-C37	3.27	1.53	1.43
19	J	101	WVN	C20-C13	3.26	1.56	1.45
13	A	809	CL7	CHD-C1D	3.26	1.46	1.39
13	B	840	CL7	OBD-CAD	3.26	1.28	1.22
13	A	816	CL7	OBD-CAD	3.26	1.28	1.22
13	B	832	CL7	C1C-NC	-3.26	1.33	1.37
19	K	101	WVN	C14-C15	-3.26	1.44	1.51
19	L	209	WVN	C31-C32	3.25	1.52	1.46
13	L	201	CL7	CHD-C1D	3.25	1.46	1.39
13	A	817	CL7	OBD-CAD	3.25	1.28	1.22
13	A	837	CL7	OBD-CAD	3.25	1.28	1.22
19	A	852	WVN	C20-C13	3.25	1.56	1.45
13	B	812	CL7	C1C-NC	-3.25	1.33	1.37
13	B	804	CL7	CHD-C1D	3.24	1.46	1.39
19	I	101	WVN	C14-C15	-3.24	1.45	1.51
13	A	802	CL7	OBD-CAD	3.24	1.28	1.22
13	J	102	CL7	C1D-ND	-3.24	1.33	1.37
13	A	839	CL7	CHD-C1D	3.24	1.46	1.39
13	A	839	CL7	C1C-NC	-3.24	1.33	1.37
13	A	814	CL7	CHD-C1D	3.23	1.46	1.39
13	A	818	CL7	CHD-C1D	3.23	1.46	1.39
19	A	853	WVN	C39-C36	3.23	1.53	1.43
13	B	807	CL7	C1D-ND	-3.23	1.33	1.37
13	A	812	CL7	OBD-CAD	3.23	1.28	1.22
13	B	823	CL7	C1C-NC	-3.23	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	804	CL7	C1D-ND	-3.22	1.33	1.37
13	B	814	CL7	CHD-C1D	3.22	1.46	1.39
13	A	813	CL7	C1C-NC	-3.22	1.33	1.37
13	F	201	CL7	C1A-CHA	3.22	1.51	1.38
13	B	814	CL7	C1C-NC	-3.22	1.33	1.37
13	A	836	CL7	C1C-NC	-3.22	1.33	1.37
19	A	850	WVN	C20-C13	3.22	1.56	1.45
19	A	850	WVN	C40-C37	3.22	1.53	1.43
13	B	804	CL7	C1A-CHA	3.22	1.51	1.38
19	F	204	WVN	C39-C36	3.22	1.53	1.43
19	B	847	WVN	C40-C37	3.22	1.53	1.43
13	B	821	CL7	OBD-CAD	3.22	1.28	1.22
13	L	205	CL7	OBD-CAD	3.21	1.28	1.22
13	B	810	CL7	C1C-NC	-3.21	1.33	1.37
13	B	807	CL7	C1C-NC	-3.21	1.33	1.37
13	J	102	CL7	C4B-NB	-3.21	1.33	1.37
13	A	843	CL7	CHD-C1D	3.21	1.46	1.39
19	L	210	WVN	C01-C02	-3.21	1.47	1.56
13	L	205	CL7	C1D-ND	-3.20	1.33	1.37
13	B	805	CL7	OBD-CAD	3.20	1.28	1.22
13	B	826	CL7	C1D-ND	-3.20	1.33	1.37
13	A	819	CL7	C1C-NC	-3.19	1.33	1.37
13	B	814	CL7	OBD-CAD	3.19	1.28	1.22
19	L	202	WVN	C31-C32	3.19	1.52	1.46
13	B	829	CL7	CHC-C4B	3.19	1.46	1.39
13	B	807	CL7	OBD-CAD	3.19	1.28	1.22
13	B	819	CL7	C1D-C2D	3.19	1.50	1.43
13	B	803	CL7	C1D-ND	-3.19	1.33	1.37
13	L	207	CL7	C1A-CHA	3.19	1.51	1.38
13	B	809	CL7	C1C-NC	-3.18	1.33	1.37
13	B	841	CL7	C1C-NC	-3.18	1.33	1.37
13	B	807	CL7	CHD-C1D	3.18	1.46	1.39
13	B	822	CL7	C1D-ND	-3.18	1.33	1.37
13	B	834	CL7	C1D-C2D	3.18	1.50	1.43
13	A	811	CL7	C1B-NB	-3.18	1.33	1.37
13	A	835	CL7	C1C-NC	-3.17	1.33	1.37
13	B	808	CL7	C1D-ND	-3.17	1.33	1.37
19	F	204	WVN	C40-C37	3.17	1.53	1.43
13	B	838	CL7	C1D-ND	-3.17	1.33	1.37
13	A	814	CL7	C1C-NC	-3.17	1.33	1.37
13	A	814	CL7	C1D-ND	-3.17	1.33	1.37
13	L	204	CL7	C1A-CHA	3.17	1.51	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	852	WVN	C40-C37	3.17	1.53	1.43
13	B	821	CL7	C1A-CHA	3.17	1.51	1.38
13	B	823	CL7	C1B-NB	-3.17	1.33	1.37
13	L	201	CL7	OBD-CAD	3.17	1.27	1.22
19	L	209	WVN	C14-C15	-3.17	1.45	1.51
19	K	101	WVN	C40-C37	3.17	1.53	1.43
13	B	831	CL7	CHD-C1D	3.16	1.46	1.39
13	A	830	CL7	C1D-ND	-3.16	1.33	1.37
13	A	802	CL7	C1D-ND	-3.16	1.33	1.37
13	A	817	CL7	C1C-NC	-3.16	1.33	1.37
13	B	841	CL7	C1A-CHA	3.16	1.51	1.38
13	B	828	CL7	C1C-NC	-3.16	1.33	1.37
13	B	846	CL7	C1C-NC	-3.15	1.33	1.37
13	B	805	CL7	CHD-C1D	3.15	1.46	1.39
13	B	814	CL7	C1D-ND	-3.15	1.33	1.37
13	A	846	CL7	C1A-CHA	3.14	1.51	1.38
13	J	102	CL7	C4C-NC	-3.14	1.33	1.37
13	A	838	CL7	C1C-NC	-3.14	1.33	1.37
13	A	832	CL7	CHD-C1D	3.14	1.46	1.39
13	A	836	CL7	OBD-CAD	3.14	1.27	1.22
13	A	804	CL7	C1A-CHA	3.14	1.51	1.38
13	A	818	CL7	C1D-ND	-3.14	1.33	1.37
13	A	812	CL7	C1D-ND	-3.14	1.33	1.37
13	B	833	CL7	C1B-NB	-3.14	1.33	1.37
13	B	829	CL7	C1B-C2B	3.13	1.50	1.43
13	A	803	CL7	C1C-NC	-3.13	1.33	1.37
19	I	101	WVN	C30-C28	3.13	1.52	1.43
19	L	202	WVN	C01-C02	-3.13	1.47	1.56
13	A	828	CL7	C1C-NC	-3.13	1.33	1.37
19	B	848	WVN	C40-C37	3.13	1.52	1.43
19	L	210	WVN	C40-C37	3.13	1.52	1.43
13	A	842	CL7	C1D-ND	-3.13	1.33	1.37
13	A	837	CL7	CHD-C1D	3.13	1.46	1.39
13	B	829	CL7	C1D-C2D	3.13	1.50	1.43
13	A	815	CL7	C1D-ND	-3.13	1.33	1.37
13	A	809	CL7	C1C-NC	-3.13	1.33	1.37
13	L	207	CL7	CHD-C1D	3.12	1.46	1.39
13	A	815	CL7	C1B-NB	-3.12	1.33	1.37
13	A	816	CL7	C1A-CHA	3.12	1.51	1.38
13	B	810	CL7	C1A-CHA	3.12	1.51	1.38
13	B	826	CL7	C1A-CHA	3.12	1.51	1.38
13	A	830	CL7	C1C-NC	-3.12	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	802	CL7	CHD-C1D	3.12	1.46	1.39
13	A	808	CL7	C1A-CHA	3.12	1.51	1.38
13	B	823	CL7	OBD-CAD	3.11	1.27	1.22
12	A	801	G9R	C1D-ND	-3.11	1.33	1.37
19	B	848	WVN	C29-C26	3.11	1.52	1.43
13	B	818	CL7	C1D-ND	-3.11	1.33	1.37
13	A	836	CL7	CHD-C1D	3.11	1.46	1.39
13	A	842	CL7	C1B-NB	-3.11	1.33	1.37
13	B	811	CL7	C1D-ND	-3.11	1.33	1.37
13	A	823	CL7	C1D-ND	-3.11	1.33	1.37
19	L	202	WVN	C40-C37	3.11	1.52	1.43
19	A	854	WVN	C33-C34	3.11	1.52	1.46
13	A	819	CL7	C1D-ND	-3.11	1.33	1.37
13	J	102	CL7	C1B-NB	-3.11	1.33	1.37
13	K	103	CL7	C1D-C2D	3.11	1.50	1.43
13	A	842	CL7	C1A-CHA	3.11	1.51	1.38
13	A	816	CL7	C1B-NB	-3.10	1.33	1.37
13	A	815	CL7	C1A-CHA	3.10	1.51	1.38
19	M	101	WVN	C14-C15	-3.10	1.45	1.51
13	A	805	CL7	C1D-ND	-3.10	1.33	1.37
19	L	209	WVN	C20-C13	3.10	1.55	1.45
13	B	811	CL7	C1C-NC	-3.10	1.33	1.37
13	A	841	CL7	CHD-C1D	3.09	1.46	1.39
13	B	824	CL7	C1D-C2D	3.09	1.50	1.43
13	B	822	CL7	C1C-NC	-3.09	1.33	1.37
13	B	830	CL7	C1D-C2D	3.09	1.50	1.43
19	A	853	WVN	C02-C11	3.09	1.55	1.50
13	B	815	CL7	OBD-CAD	3.09	1.27	1.22
13	A	817	CL7	CHD-C1D	3.09	1.46	1.39
13	B	806	CL7	CHD-C1D	3.09	1.46	1.39
13	A	818	CL7	C1C-NC	-3.08	1.33	1.37
13	B	821	CL7	CHD-C1D	3.08	1.46	1.39
13	A	808	CL7	C1D-ND	-3.08	1.33	1.37
13	B	842	CL7	CHC-C4B	3.08	1.48	1.39
19	A	851	WVN	C20-C13	3.08	1.55	1.45
13	B	823	CL7	C1A-CHA	3.08	1.51	1.38
13	B	813	CL7	C1C-NC	-3.08	1.33	1.37
13	B	806	CL7	C1B-NB	-3.08	1.33	1.37
13	B	833	CL7	C1D-C2D	3.08	1.50	1.43
13	A	839	CL7	C1D-ND	-3.08	1.33	1.37
13	A	822	CL7	C1A-CHA	3.08	1.51	1.38
13	A	823	CL7	C1B-NB	-3.08	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	846	CL7	C1B-NB	-3.08	1.33	1.37
13	A	829	CL7	C1D-ND	-3.07	1.33	1.37
13	B	807	CL7	C1B-NB	-3.07	1.33	1.37
19	A	853	WVN	C33-C34	3.07	1.52	1.46
13	A	831	CL7	C1B-NB	-3.07	1.33	1.37
19	M	101	WVN	C39-C36	3.07	1.52	1.43
13	A	806	CL7	C1B-C2B	3.07	1.50	1.43
13	B	805	CL7	C1C-NC	-3.07	1.33	1.37
13	B	832	CL7	C1D-ND	-3.07	1.33	1.37
13	B	821	CL7	C1C-NC	-3.06	1.33	1.37
12	A	801	G9R	C3D-C2D	3.06	1.47	1.39
13	A	846	CL7	C1B-NB	-3.06	1.33	1.37
13	A	828	CL7	C1A-CHA	3.06	1.51	1.38
13	B	818	CL7	C1C-NC	-3.06	1.33	1.37
13	A	805	CL7	C1C-NC	-3.06	1.33	1.37
13	B	843	CL7	C1A-CHA	3.06	1.51	1.38
13	F	206	CL7	C1C-NC	-3.06	1.33	1.37
13	L	204	CL7	CHD-C1D	3.06	1.46	1.39
13	L	207	CL7	C1D-ND	-3.05	1.33	1.37
13	A	807	CL7	C1A-CHA	3.05	1.51	1.38
19	L	210	WVN	C39-C36	3.05	1.52	1.43
13	B	803	CL7	CHD-C1D	3.05	1.46	1.39
13	B	803	CL7	C1A-CHA	3.05	1.51	1.38
13	L	205	CL7	CHD-C1D	3.05	1.46	1.39
13	A	841	CL7	C1C-NC	-3.05	1.33	1.37
12	A	801	G9R	MG-NC	3.05	2.13	2.06
13	A	830	CL7	C1A-CHA	3.04	1.51	1.38
13	A	839	CL7	OBD-CAD	3.04	1.27	1.22
13	B	822	CL7	CHD-C1D	3.04	1.46	1.39
13	A	840	CL7	C1D-C2D	3.04	1.50	1.43
13	B	822	CL7	MG-ND	-3.04	1.99	2.05
13	J	103	CL7	C1A-CHA	3.04	1.50	1.38
19	A	850	WVN	C21-C15	3.04	1.55	1.50
13	A	818	CL7	C1B-NB	-3.04	1.33	1.37
13	A	831	CL7	C1D-C2D	3.04	1.50	1.43
13	F	202	CL7	C1A-CHA	3.04	1.50	1.38
13	A	855	CL7	C1A-CHA	3.04	1.50	1.38
13	I	102	CL7	C1A-CHA	3.04	1.50	1.38
13	A	837	CL7	C1A-CHA	3.04	1.50	1.38
13	A	848	CL7	C1D-C2D	3.04	1.50	1.43
13	B	807	CL7	C1A-CHA	3.04	1.50	1.38
13	B	837	CL7	C1A-CHA	3.04	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	824	CL7	C1A-CHA	3.03	1.50	1.38
19	K	101	WVN	C20-C13	3.03	1.55	1.45
13	A	839	CL7	C1A-CHA	3.03	1.50	1.38
13	A	839	CL7	C1B-NB	-3.03	1.33	1.37
13	A	845	CL7	C1C-NC	-3.03	1.33	1.37
13	L	204	CL7	C1D-ND	-3.03	1.33	1.37
13	B	803	CL7	C1B-C2B	3.03	1.50	1.43
13	B	831	CL7	C1A-CHA	3.03	1.50	1.38
13	A	855	CL7	C1C-NC	-3.03	1.33	1.37
13	B	826	CL7	C1C-NC	-3.03	1.33	1.37
13	J	102	CL7	CHD-C1D	3.03	1.46	1.39
13	A	810	CL7	C1A-CHA	3.03	1.50	1.38
13	F	202	CL7	C1D-C2D	3.03	1.50	1.43
13	K	102	CL7	C1D-C2D	3.03	1.50	1.43
13	B	830	CL7	C1A-CHA	3.03	1.50	1.38
13	A	819	CL7	C1B-NB	-3.03	1.33	1.37
13	B	817	CL7	C1A-CHA	3.03	1.50	1.38
19	L	210	WVN	C27-C25	3.03	1.57	1.50
13	A	836	CL7	C1B-NB	-3.03	1.33	1.37
13	A	823	CL7	C1A-CHA	3.02	1.50	1.38
13	B	805	CL7	C1B-C2B	3.02	1.50	1.43
13	B	842	CL7	CHB-C1B	3.02	1.47	1.39
13	B	841	CL7	CHD-C1D	3.02	1.46	1.39
13	B	815	CL7	C1C-NC	-3.02	1.33	1.37
13	B	834	CL7	C1A-CHA	3.02	1.50	1.38
13	A	809	CL7	C1A-CHA	3.02	1.50	1.38
13	A	825	CL7	C1C-NC	-3.02	1.33	1.37
19	M	101	WVN	C20-C13	3.02	1.55	1.45
13	B	816	CL7	C1A-CHA	3.02	1.50	1.38
13	A	804	CL7	C1D-ND	-3.02	1.33	1.37
13	A	829	CL7	C1A-CHA	3.02	1.50	1.38
13	A	824	CL7	C1A-CHA	3.01	1.50	1.38
13	B	833	CL7	C1C-NC	-3.01	1.33	1.37
13	A	840	CL7	C1D-ND	-3.01	1.33	1.37
13	A	841	CL7	C1D-ND	-3.01	1.33	1.37
13	L	204	CL7	C1B-C2B	3.01	1.50	1.43
13	B	802	CL7	C1C-NC	-3.01	1.33	1.37
13	B	825	CL7	C1A-CHA	3.01	1.50	1.38
13	A	843	CL7	C1C-NC	-3.01	1.33	1.37
13	B	808	CL7	C1C-NC	-3.01	1.33	1.37
13	L	205	CL7	C1B-NB	-3.01	1.33	1.37
13	A	841	CL7	C1A-CHA	3.01	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	818	CL7	C1A-CHA	3.01	1.50	1.38
13	A	825	CL7	C1A-CHA	3.00	1.50	1.38
13	A	807	CL7	C1B-C2B	3.00	1.50	1.43
13	B	815	CL7	C1A-CHA	3.00	1.50	1.38
13	J	103	CL7	C1D-C2D	3.00	1.50	1.43
19	B	847	WVN	C20-C13	3.00	1.55	1.45
13	A	815	CL7	C1C-NC	-3.00	1.33	1.37
13	A	839	CL7	MG-ND	-3.00	1.99	2.05
13	A	840	CL7	C1A-CHA	3.00	1.50	1.38
19	J	101	WVN	C33-C34	3.00	1.52	1.46
13	I	102	CL7	C1D-C2D	3.00	1.50	1.43
19	I	101	WVN	C20-C13	3.00	1.55	1.45
13	A	831	CL7	C1A-CHA	3.00	1.50	1.38
13	B	846	CL7	C1A-CHA	3.00	1.50	1.38
13	A	817	CL7	C1A-CHA	2.99	1.50	1.38
22	B	845	K3I	C12-C13	2.99	1.52	1.46
13	B	809	CL7	C1D-C2D	2.99	1.50	1.43
13	B	819	CL7	C1B-NB	-2.99	1.33	1.37
13	A	829	CL7	C1C-NC	-2.99	1.33	1.37
13	B	816	CL7	C1D-C2D	2.99	1.50	1.43
22	B	845	K3I	C31-C32	2.99	1.55	1.45
19	I	101	WVN	C40-C37	2.99	1.52	1.43
13	B	813	CL7	C1A-CHA	2.99	1.50	1.38
13	F	206	CL7	C1A-CHA	2.99	1.50	1.38
13	B	805	CL7	C1D-ND	-2.99	1.33	1.37
13	B	826	CL7	C1B-NB	-2.99	1.33	1.37
13	B	812	CL7	C1D-ND	-2.99	1.33	1.37
13	A	848	CL7	C1A-CHA	2.99	1.50	1.38
13	A	838	CL7	C1A-CHA	2.99	1.50	1.38
19	B	848	WVN	C39-C36	2.99	1.52	1.43
13	B	812	CL7	C1A-CHA	2.99	1.50	1.38
13	A	814	CL7	C1A-CHA	2.99	1.50	1.38
13	A	836	CL7	C1A-CHA	2.98	1.50	1.38
13	A	808	CL7	C1C-NC	-2.98	1.33	1.37
13	A	812	CL7	C1C-NC	-2.98	1.33	1.37
13	B	808	CL7	C1B-NB	-2.98	1.33	1.37
13	A	810	CL7	C1C-NC	-2.98	1.33	1.37
13	A	811	CL7	C1D-ND	-2.98	1.33	1.37
13	A	845	CL7	C1A-CHA	2.98	1.50	1.38
13	A	802	CL7	C1B-C2B	2.98	1.50	1.43
13	B	822	CL7	C1A-CHA	2.98	1.50	1.38
13	A	813	CL7	CHD-C1D	2.98	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	838	CL7	C1D-ND	-2.98	1.34	1.37
13	A	813	CL7	C1A-CHA	2.98	1.50	1.38
13	K	102	CL7	C1A-CHA	2.97	1.50	1.38
13	A	827	CL7	C1C-NC	-2.97	1.34	1.37
13	A	842	CL7	C1C-NC	-2.97	1.34	1.37
13	A	806	CL7	C1A-CHA	2.97	1.50	1.38
12	A	801	G9R	C1B-NB	-2.97	1.34	1.37
13	B	817	CL7	C1B-NB	-2.97	1.34	1.37
13	A	843	CL7	OBD-CAD	2.97	1.27	1.22
13	A	811	CL7	C1C-NC	-2.97	1.34	1.37
13	L	201	CL7	C1B-C2B	2.97	1.50	1.43
13	B	826	CL7	CHD-C1D	2.97	1.46	1.39
13	A	816	CL7	C1D-ND	-2.97	1.34	1.37
13	B	804	CL7	MG-ND	-2.96	1.99	2.05
13	A	802	CL7	C1A-CHA	2.96	1.50	1.38
13	A	807	CL7	C1C-NC	-2.96	1.34	1.37
13	B	802	CL7	C1A-CHA	2.96	1.50	1.38
13	B	809	CL7	C1B-NB	-2.96	1.34	1.37
13	A	829	CL7	C1D-C2D	2.96	1.50	1.43
19	A	851	WVN	C01-C02	-2.96	1.48	1.56
13	B	804	CL7	OBD-CAD	2.95	1.27	1.22
19	B	848	WVN	C21-C15	2.95	1.55	1.50
19	M	101	WVN	C30-C28	2.95	1.52	1.43
13	A	809	CL7	C1D-C2D	2.95	1.50	1.43
13	A	831	CL7	C1C-NC	-2.95	1.34	1.37
13	B	829	CL7	C4B-NB	-2.95	1.34	1.37
13	A	819	CL7	C1A-CHA	2.95	1.50	1.38
13	L	204	CL7	C1C-NC	-2.95	1.34	1.37
13	F	206	CL7	C1D-C2D	2.95	1.50	1.43
13	A	835	CL7	C1A-CHA	2.95	1.50	1.38
13	B	805	CL7	C1A-CHA	2.95	1.50	1.38
13	A	807	CL7	C1D-ND	-2.94	1.34	1.37
13	B	806	CL7	C1D-ND	-2.94	1.34	1.37
13	B	832	CL7	C1A-CHA	2.94	1.50	1.38
13	A	835	CL7	C1B-NB	-2.94	1.34	1.37
13	B	821	CL7	C1D-ND	-2.94	1.34	1.37
13	L	201	CL7	C1A-CHA	2.94	1.50	1.38
13	A	814	CL7	C1B-C2B	2.94	1.50	1.43
13	A	824	CL7	C1C-NC	-2.94	1.34	1.37
13	B	834	CL7	C1C-NC	-2.94	1.34	1.37
13	A	818	CL7	C1A-CHA	2.94	1.50	1.38
13	B	817	CL7	C1C-NC	-2.94	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	827	CL7	C1A-CHA	2.94	1.50	1.38
13	A	809	CL7	C1D-ND	-2.94	1.34	1.37
13	B	811	CL7	C1A-CHA	2.94	1.50	1.38
19	L	210	WVN	C33-C34	2.94	1.52	1.46
13	A	835	CL7	C1D-C2D	2.94	1.50	1.43
13	A	823	CL7	C4B-NB	-2.94	1.34	1.37
13	A	816	CL7	C1C-NC	-2.93	1.34	1.37
13	B	818	CL7	C1D-C2D	2.93	1.50	1.43
13	B	811	CL7	C1D-C2D	2.93	1.50	1.43
13	A	814	CL7	C1B-NB	-2.93	1.34	1.37
13	A	825	CL7	C1D-ND	-2.93	1.34	1.37
13	A	803	CL7	C1D-C2D	2.93	1.50	1.43
13	B	814	CL7	C1A-CHA	2.93	1.50	1.38
12	A	801	G9R	OBD-CAD	2.93	1.27	1.22
19	B	847	WVN	C02-C11	2.93	1.54	1.50
13	B	819	CL7	C1A-CHA	2.93	1.50	1.38
13	A	848	CL7	C1C-NC	-2.93	1.34	1.37
13	A	811	CL7	C1D-C2D	2.93	1.50	1.43
13	B	825	CL7	C1D-ND	-2.92	1.34	1.37
13	A	811	CL7	C1A-CHA	2.92	1.50	1.38
13	B	825	CL7	C1C-NC	-2.92	1.34	1.37
19	L	202	WVN	C33-C34	2.92	1.52	1.46
13	B	804	CL7	C1C-NC	-2.92	1.34	1.37
13	B	824	CL7	C1B-NB	-2.92	1.34	1.37
22	B	845	K3I	C7-C6	2.92	1.55	1.45
13	B	825	CL7	C1D-C2D	2.92	1.50	1.43
13	B	832	CL7	C1D-C2D	2.92	1.50	1.43
13	A	824	CL7	C1D-ND	-2.92	1.34	1.37
13	A	828	CL7	C1D-C2D	2.92	1.50	1.43
13	B	802	CL7	CHD-C1D	2.92	1.46	1.39
13	B	809	CL7	C1D-ND	-2.92	1.34	1.37
13	A	855	CL7	C1D-C2D	2.92	1.50	1.43
13	A	843	CL7	C1B-C2B	2.92	1.50	1.43
13	A	822	CL7	C1D-ND	-2.92	1.34	1.37
19	A	850	WVN	C33-C34	2.92	1.52	1.46
13	J	103	CL7	C1D-ND	-2.92	1.34	1.37
13	B	829	CL7	C1A-CHA	2.91	1.50	1.38
13	B	803	CL7	C1B-NB	-2.91	1.34	1.37
13	B	804	CL7	C1B-NB	-2.91	1.34	1.37
13	A	817	CL7	C1B-C2B	2.91	1.50	1.43
13	B	815	CL7	C1D-ND	-2.91	1.34	1.37
19	L	209	WVN	C02-C11	2.91	1.54	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	838	CL7	C1D-C2D	2.91	1.50	1.43
13	B	831	CL7	C1C-NC	-2.91	1.34	1.37
13	B	817	CL7	C1D-C2D	2.91	1.50	1.43
13	B	808	CL7	C1A-CHA	2.91	1.50	1.38
13	A	806	CL7	C1D-C2D	2.90	1.49	1.43
13	L	205	CL7	C1A-CHA	2.90	1.50	1.38
13	L	207	CL7	C1B-C2B	2.90	1.49	1.43
13	A	812	CL7	C1A-CHA	2.90	1.50	1.38
19	F	204	WVN	C33-C34	2.90	1.52	1.46
13	B	843	CL7	C1D-C2D	2.90	1.49	1.43
13	A	845	CL7	C1B-NB	-2.90	1.34	1.37
13	B	837	CL7	C1D-ND	-2.90	1.34	1.37
13	A	824	CL7	C1B-NB	-2.89	1.34	1.37
13	B	825	CL7	C1B-C2B	2.89	1.49	1.43
13	B	828	CL7	C1A-CHA	2.89	1.50	1.38
13	B	831	CL7	C1D-C2D	2.89	1.49	1.43
19	F	204	WVN	C20-C13	2.89	1.55	1.45
13	A	817	CL7	C1B-NB	-2.89	1.34	1.37
13	A	805	CL7	C1D-C2D	2.89	1.49	1.43
19	A	850	WVN	C14-C15	-2.89	1.45	1.51
13	A	855	CL7	C1D-ND	-2.89	1.34	1.37
13	B	831	CL7	C1B-C2B	2.89	1.49	1.43
13	A	827	CL7	C1D-ND	-2.89	1.34	1.37
13	A	845	CL7	C1D-ND	-2.88	1.34	1.37
13	A	838	CL7	C1B-NB	-2.88	1.34	1.37
13	B	818	CL7	C1B-NB	-2.88	1.34	1.37
13	A	809	CL7	C1B-C2B	2.88	1.49	1.43
13	B	829	CL7	C4C-C3C	2.88	1.50	1.45
13	B	846	CL7	C1B-C2B	2.88	1.49	1.43
13	L	201	CL7	C1B-NB	-2.87	1.34	1.37
13	A	813	CL7	C1D-ND	-2.87	1.34	1.37
13	B	828	CL7	C1D-ND	-2.87	1.34	1.37
13	A	830	CL7	C1B-NB	-2.87	1.34	1.37
19	K	101	WVN	C33-C34	2.87	1.52	1.46
13	A	804	CL7	C1C-NC	-2.87	1.34	1.37
13	A	827	CL7	C1D-C2D	2.87	1.49	1.43
13	B	838	CL7	C1A-CHA	2.87	1.50	1.38
13	B	819	CL7	C1D-ND	-2.87	1.34	1.37
13	I	102	CL7	C1D-ND	-2.87	1.34	1.37
13	A	845	CL7	C1D-C2D	2.87	1.49	1.43
13	B	838	CL7	MG-ND	-2.87	2.00	2.05
13	B	838	CL7	C1D-C2D	2.87	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	818	CL7	C1B-C2B	2.87	1.49	1.43
13	A	839	CL7	C1B-C2B	2.87	1.49	1.43
13	A	817	CL7	C1D-ND	-2.87	1.34	1.37
13	L	205	CL7	C1B-C2B	2.86	1.49	1.43
13	B	819	CL7	C1C-NC	-2.86	1.34	1.37
13	F	201	CL7	C1C-NC	-2.86	1.34	1.37
13	I	102	CL7	C1C-NC	-2.86	1.34	1.37
13	A	806	CL7	C1D-ND	-2.86	1.34	1.37
13	A	812	CL7	C1B-NB	-2.85	1.34	1.37
13	B	837	CL7	C1D-C2D	2.85	1.49	1.43
13	A	803	CL7	C1A-CHA	2.85	1.50	1.38
13	B	821	CL7	C1D-C2D	2.85	1.49	1.43
13	B	815	CL7	C1D-C2D	2.85	1.49	1.43
13	A	813	CL7	C1B-NB	-2.85	1.34	1.37
13	A	822	CL7	C1D-C2D	2.85	1.49	1.43
13	A	829	CL7	C1B-C2B	2.84	1.49	1.43
13	B	838	CL7	C1B-C2B	2.84	1.49	1.43
13	A	831	CL7	C1D-ND	-2.84	1.34	1.37
13	L	201	CL7	C1D-ND	-2.84	1.34	1.37
13	A	855	CL7	C1B-NB	-2.84	1.34	1.37
13	B	830	CL7	C1B-C2B	2.84	1.49	1.43
13	B	809	CL7	C1A-CHA	2.84	1.50	1.38
13	B	817	CL7	C1D-ND	-2.84	1.34	1.37
13	A	827	CL7	C1B-NB	-2.83	1.34	1.37
13	B	810	CL7	C1D-ND	-2.83	1.34	1.37
13	B	806	CL7	C1B-C2B	2.83	1.49	1.43
13	F	201	CL7	C1B-C2B	2.83	1.49	1.43
13	A	846	CL7	C1B-C2B	2.83	1.49	1.43
13	L	204	CL7	C1D-C2D	2.83	1.49	1.43
13	A	808	CL7	C1B-NB	-2.82	1.34	1.37
13	A	837	CL7	C1D-ND	-2.82	1.34	1.37
13	F	206	CL7	C1D-ND	-2.82	1.34	1.37
13	A	824	CL7	C1D-C2D	2.82	1.49	1.43
13	F	201	CL7	C1D-C2D	2.82	1.49	1.43
13	B	822	CL7	C1B-C2B	2.82	1.49	1.43
13	A	816	CL7	C1D-C2D	2.82	1.49	1.43
13	A	842	CL7	C1D-C2D	2.82	1.49	1.43
13	B	831	CL7	C1D-ND	-2.82	1.34	1.37
13	B	813	CL7	C1B-C2B	2.82	1.49	1.43
13	B	805	CL7	C1D-C2D	2.82	1.49	1.43
12	A	801	G9R	C4D-CHA	2.82	1.48	1.38
13	A	810	CL7	C1D-C2D	2.82	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	837	CL7	C1C-NC	-2.81	1.34	1.37
19	M	101	WVN	C40-C37	2.81	1.51	1.43
13	A	805	CL7	C1B-NB	-2.81	1.34	1.37
13	A	817	CL7	C1D-C2D	2.81	1.49	1.43
13	L	205	CL7	C1D-C2D	2.81	1.49	1.43
13	B	843	CL7	C1C-NC	-2.81	1.34	1.37
13	B	813	CL7	C1D-ND	-2.80	1.34	1.37
13	A	846	CL7	C1D-C2D	2.80	1.49	1.43
13	L	207	CL7	C1B-NB	-2.80	1.34	1.37
13	A	813	CL7	OBD-CAD	2.80	1.27	1.22
13	J	103	CL7	C1C-NC	-2.80	1.34	1.37
13	A	816	CL7	C1B-C2B	2.80	1.49	1.43
13	B	837	CL7	C1B-NB	-2.80	1.34	1.37
18	B	801	PHO	CBD-CGD	-2.80	1.49	1.52
13	B	810	CL7	C1B-C2B	2.80	1.49	1.43
13	A	843	CL7	C1A-CHA	2.80	1.49	1.38
13	A	810	CL7	C1B-C2B	2.80	1.49	1.43
13	A	814	CL7	C1D-C2D	2.80	1.49	1.43
13	B	823	CL7	C1D-C2D	2.79	1.49	1.43
13	A	843	CL7	C1B-NB	-2.79	1.34	1.37
13	B	814	CL7	C1B-NB	-2.79	1.34	1.37
13	A	848	CL7	C1D-ND	-2.79	1.34	1.37
13	B	816	CL7	C1C-NC	-2.79	1.34	1.37
13	K	102	CL7	C1D-ND	-2.79	1.34	1.37
13	A	810	CL7	C1D-ND	-2.79	1.34	1.37
13	B	832	CL7	C1B-NB	-2.79	1.34	1.37
13	B	810	CL7	C1D-C2D	2.79	1.49	1.43
13	L	201	CL7	C4B-NB	-2.79	1.34	1.37
13	A	825	CL7	C1B-C2B	2.79	1.49	1.43
13	K	103	CL7	C1B-C2B	2.79	1.49	1.43
13	A	815	CL7	C1D-C2D	2.79	1.49	1.43
13	B	804	CL7	C1B-C2B	2.79	1.49	1.43
13	A	805	CL7	C1A-CHA	2.79	1.49	1.38
13	B	816	CL7	C1B-C2B	2.78	1.49	1.43
13	L	207	CL7	C1D-C2D	2.78	1.49	1.43
13	A	807	CL7	C1D-C2D	2.78	1.49	1.43
13	A	803	CL7	C1B-NB	-2.78	1.34	1.37
13	B	802	CL7	C1B-NB	-2.78	1.34	1.37
13	B	833	CL7	C1D-ND	-2.78	1.34	1.37
13	F	201	CL7	C1B-NB	-2.78	1.34	1.37
13	A	804	CL7	C1B-C2B	2.78	1.49	1.43
13	J	103	CL7	C1B-C2B	2.78	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	802	CL7	C1D-C2D	2.78	1.49	1.43
19	I	101	WVN	C33-C34	2.78	1.51	1.46
13	K	103	CL7	C1D-ND	-2.78	1.34	1.37
13	A	830	CL7	C1D-C2D	2.78	1.49	1.43
13	L	201	CL7	C1D-C2D	2.78	1.49	1.43
13	B	818	CL7	C1B-C2B	2.77	1.49	1.43
13	B	840	CL7	C1B-C2B	2.77	1.49	1.43
13	A	840	CL7	C1B-NB	-2.77	1.34	1.37
13	B	841	CL7	C1B-NB	-2.77	1.34	1.37
13	A	825	CL7	C1D-C2D	2.77	1.49	1.43
13	B	814	CL7	C1B-C2B	2.77	1.49	1.43
13	B	821	CL7	C1B-C2B	2.77	1.49	1.43
13	B	833	CL7	C1A-CHA	2.77	1.49	1.38
13	I	102	CL7	C1B-C2B	2.77	1.49	1.43
13	L	205	CL7	C4C-NC	-2.77	1.34	1.37
19	L	209	WVN	C40-C37	2.77	1.51	1.43
13	A	848	CL7	C1B-C2B	2.77	1.49	1.43
13	B	838	CL7	C1C-NC	-2.77	1.34	1.37
19	L	209	WVN	C39-C36	2.76	1.51	1.43
13	A	815	CL7	C1B-C2B	2.76	1.49	1.43
13	B	840	CL7	C1C-NC	-2.76	1.34	1.37
13	A	804	CL7	C1D-C2D	2.76	1.49	1.43
13	B	808	CL7	C1D-C2D	2.76	1.49	1.43
13	B	828	CL7	C1D-C2D	2.76	1.49	1.43
13	B	806	CL7	C1A-CHA	2.76	1.49	1.38
13	F	202	CL7	C1C-NC	-2.76	1.34	1.37
13	A	837	CL7	C1B-C2B	2.76	1.49	1.43
13	B	812	CL7	C4C-NC	-2.76	1.34	1.37
13	B	816	CL7	C1D-ND	-2.76	1.34	1.37
13	B	806	CL7	C4C-NC	-2.76	1.34	1.37
13	A	827	CL7	C1B-C2B	2.75	1.49	1.43
13	A	812	CL7	C1B-C2B	2.75	1.49	1.43
13	K	103	CL7	OBD-CAD	2.75	1.28	1.23
13	A	841	CL7	C1B-NB	-2.75	1.34	1.37
19	F	205	WVN	C21-C15	2.75	1.55	1.50
13	B	841	CL7	C1B-C2B	2.75	1.49	1.43
13	F	202	CL7	C1B-C2B	2.75	1.49	1.43
13	B	842	CL7	CHD-C1D	2.75	1.47	1.39
13	A	828	CL7	C1D-ND	-2.75	1.34	1.37
13	K	103	CL7	C1C-NC	-2.75	1.34	1.37
13	B	810	CL7	C1B-NB	-2.74	1.34	1.37
13	B	807	CL7	C1B-C2B	2.74	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	841	CL7	MG-ND	-2.74	2.00	2.05
13	K	102	CL7	C1B-C2B	2.74	1.49	1.43
13	A	818	CL7	C1D-C2D	2.74	1.49	1.43
13	B	822	CL7	C1B-NB	-2.74	1.34	1.37
13	B	824	CL7	C1C-NC	-2.74	1.34	1.37
13	B	828	CL7	C1B-C2B	2.74	1.49	1.43
13	I	102	CL7	C1B-NB	-2.74	1.34	1.37
13	A	823	CL7	C1D-C2D	2.74	1.49	1.43
13	A	813	CL7	C1B-C2B	2.73	1.49	1.43
19	A	853	WVN	C27-C25	2.73	1.56	1.50
13	A	822	CL7	C1B-NB	-2.73	1.34	1.37
13	F	201	CL7	C1D-ND	-2.73	1.34	1.37
13	B	830	CL7	C1D-ND	-2.73	1.34	1.37
13	B	811	CL7	C1B-NB	-2.72	1.34	1.37
13	A	823	CL7	MG-ND	-2.72	2.00	2.05
13	B	813	CL7	C1D-C2D	2.72	1.49	1.43
13	A	803	CL7	C1D-ND	-2.72	1.34	1.37
13	B	823	CL7	C1D-ND	-2.72	1.34	1.37
13	A	845	CL7	C1B-C2B	2.72	1.49	1.43
13	B	837	CL7	C1B-C2B	2.72	1.49	1.43
13	K	102	CL7	C1C-NC	-2.72	1.34	1.37
13	F	206	CL7	C1B-NB	-2.72	1.34	1.37
13	A	830	CL7	C1B-C2B	2.72	1.49	1.43
19	B	847	WVN	C14-C15	-2.71	1.45	1.51
19	B	848	WVN	C01-C02	-2.71	1.48	1.56
13	A	802	CL7	C4C-NC	-2.71	1.34	1.37
13	A	810	CL7	C1B-NB	-2.71	1.34	1.37
13	B	814	CL7	C1D-C2D	2.71	1.49	1.43
13	B	830	CL7	C1C-NC	-2.71	1.34	1.37
13	B	840	CL7	C1A-CHA	2.71	1.49	1.38
13	A	846	CL7	C1D-ND	-2.71	1.34	1.37
13	A	848	CL7	C1B-NB	-2.71	1.34	1.37
13	B	826	CL7	C1D-C2D	2.71	1.49	1.43
13	B	812	CL7	C1B-C2B	2.70	1.49	1.43
13	A	828	CL7	C1B-NB	-2.70	1.34	1.37
13	A	835	CL7	C1D-ND	-2.70	1.34	1.37
13	B	821	CL7	C1B-NB	-2.70	1.34	1.37
13	A	830	CL7	C4B-NB	-2.70	1.34	1.37
13	A	828	CL7	C1B-C2B	2.70	1.49	1.43
12	A	801	G9R	MG-ND	-2.70	2.00	2.05
13	B	817	CL7	C1B-C2B	2.70	1.49	1.43
13	B	812	CL7	C1D-C2D	2.70	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	819	CL7	C1D-C2D	2.70	1.49	1.43
13	B	825	CL7	C1B-NB	-2.70	1.34	1.37
13	F	202	CL7	C1B-NB	-2.69	1.34	1.37
13	B	815	CL7	MG-ND	-2.69	2.00	2.05
13	B	828	CL7	C1B-NB	-2.69	1.34	1.37
13	B	831	CL7	C1B-NB	-2.69	1.34	1.37
13	A	836	CL7	C1D-C2D	2.69	1.49	1.43
13	B	808	CL7	C1B-C2B	2.69	1.49	1.43
13	B	843	CL7	C1B-NB	-2.69	1.34	1.37
13	A	841	CL7	C1B-C2B	2.69	1.49	1.43
13	B	812	CL7	C1B-NB	-2.69	1.34	1.37
13	B	846	CL7	C1D-C2D	2.69	1.49	1.43
13	B	802	CL7	C4C-NC	-2.69	1.34	1.37
13	B	806	CL7	C1D-C2D	2.69	1.49	1.43
13	B	834	CL7	C1B-C2B	2.69	1.49	1.43
13	A	808	CL7	MG-ND	-2.68	2.00	2.05
13	A	825	CL7	C4B-NB	-2.68	1.34	1.37
13	A	823	CL7	C1B-C2B	2.68	1.49	1.43
13	A	832	CL7	OBD-CAD	2.68	1.27	1.22
13	B	829	CL7	C1D-ND	-2.68	1.34	1.37
13	B	811	CL7	MG-ND	-2.68	2.00	2.05
12	A	801	G9R	C1B-C2B	2.67	1.49	1.43
13	L	204	CL7	C1B-NB	-2.67	1.34	1.37
13	B	802	CL7	C4B-NB	-2.67	1.34	1.37
13	A	843	CL7	C4B-NB	-2.67	1.34	1.37
13	B	813	CL7	C1B-NB	-2.67	1.34	1.37
13	K	102	CL7	C1B-NB	-2.67	1.34	1.37
13	A	845	CL7	C4C-NC	-2.67	1.34	1.37
13	B	834	CL7	C1B-NB	-2.67	1.34	1.37
13	F	206	CL7	C1B-C2B	2.67	1.49	1.43
13	B	808	CL7	C4C-NC	-2.67	1.34	1.37
19	J	104	WVN	C21-C15	2.67	1.55	1.50
13	A	824	CL7	C4C-NC	-2.66	1.34	1.37
19	I	101	WVN	C02-C11	2.66	1.54	1.50
13	F	202	CL7	C1D-ND	-2.66	1.34	1.37
13	A	846	CL7	C4B-NB	-2.66	1.34	1.37
13	B	846	CL7	C4B-NB	-2.65	1.34	1.37
13	A	830	CL7	MG-ND	-2.65	2.00	2.05
12	A	801	G9R	C1C-NC	-2.65	1.33	1.37
13	B	807	CL7	C1D-C2D	2.65	1.49	1.43
13	A	836	CL7	C1B-C2B	2.65	1.49	1.43
13	B	840	CL7	C1D-ND	-2.65	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B	847	WVN	C33-C34	2.65	1.51	1.46
13	B	808	CL7	OBD-CAD	2.65	1.27	1.22
13	A	802	CL7	C1C-NC	-2.65	1.34	1.37
13	A	843	CL7	C1D-C2D	2.65	1.49	1.43
13	A	838	CL7	C1B-C2B	2.65	1.49	1.43
13	A	841	CL7	C1D-C2D	2.64	1.49	1.43
13	A	812	CL7	C1D-C2D	2.64	1.49	1.43
13	B	811	CL7	C1B-C2B	2.64	1.49	1.43
19	L	202	WVN	C30-C28	2.64	1.51	1.43
18	B	801	PHO	C4D-CHA	2.64	1.43	1.39
13	A	829	CL7	C1B-NB	-2.64	1.34	1.37
13	B	803	CL7	C1D-C2D	2.64	1.49	1.43
13	L	207	CL7	C1C-NC	-2.63	1.34	1.37
13	A	807	CL7	C1B-NB	-2.63	1.34	1.37
13	J	103	CL7	C1B-NB	-2.63	1.34	1.37
13	A	818	CL7	C4C-NC	-2.63	1.34	1.37
13	B	824	CL7	MG-ND	-2.63	2.00	2.05
19	A	854	WVN	C20-C13	2.63	1.54	1.45
13	B	804	CL7	C1D-C2D	2.63	1.49	1.43
13	B	823	CL7	C1B-C2B	2.63	1.49	1.43
13	B	802	CL7	MG-ND	-2.63	2.00	2.05
13	B	829	CL7	MG-ND	-2.63	2.00	2.05
19	K	101	WVN	C21-C15	2.62	1.55	1.50
13	A	818	CL7	C4B-NB	-2.62	1.34	1.37
13	A	808	CL7	C1B-C2B	2.62	1.49	1.43
13	A	841	CL7	C4C-NC	-2.62	1.34	1.37
13	B	814	CL7	C4B-NB	-2.62	1.34	1.37
13	K	103	CL7	C1A-CHA	2.62	1.50	1.38
13	B	819	CL7	C1B-C2B	2.62	1.49	1.43
13	A	813	CL7	C1D-C2D	2.62	1.49	1.43
13	A	837	CL7	C1D-C2D	2.62	1.49	1.43
13	B	822	CL7	C1D-C2D	2.62	1.49	1.43
13	B	843	CL7	C1D-ND	-2.62	1.34	1.37
13	B	807	CL7	C4C-NC	-2.61	1.34	1.37
13	A	846	CL7	MG-ND	-2.61	2.00	2.05
13	J	102	CL7	C1D-C2D	2.61	1.49	1.43
13	B	831	CL7	C4C-NC	-2.61	1.34	1.37
13	B	826	CL7	C1B-C2B	2.61	1.49	1.43
13	B	809	CL7	C1B-C2B	2.61	1.49	1.43
13	A	809	CL7	C4C-NC	-2.60	1.34	1.37
13	B	830	CL7	C1B-NB	-2.60	1.34	1.37
13	A	806	CL7	C1B-NB	-2.60	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	809	CL7	C4C-NC	-2.60	1.34	1.37
18	A	849	PHO	C4D-CHA	2.60	1.43	1.39
13	B	812	CL7	MG-ND	-2.60	2.00	2.05
13	B	808	CL7	MG-ND	-2.60	2.00	2.05
13	B	824	CL7	C1D-ND	-2.60	1.34	1.37
13	B	833	CL7	MG-ND	-2.60	2.00	2.05
13	B	805	CL7	C1B-NB	-2.60	1.34	1.37
13	A	822	CL7	C1B-C2B	2.60	1.49	1.43
13	A	816	CL7	MG-ND	-2.60	2.00	2.05
19	B	847	WVN	C21-C15	2.59	1.55	1.50
13	B	816	CL7	C1B-NB	-2.59	1.34	1.37
13	A	806	CL7	C4B-NB	-2.59	1.34	1.37
13	B	832	CL7	MG-ND	-2.59	2.00	2.05
13	B	823	CL7	C4C-NC	-2.59	1.34	1.37
13	B	810	CL7	MG-ND	-2.59	2.00	2.05
13	A	811	CL7	C1B-C2B	2.59	1.49	1.43
19	F	204	WVN	C21-C15	2.58	1.55	1.50
13	A	825	CL7	C1B-NB	-2.58	1.34	1.37
13	A	811	CL7	C4B-NB	-2.58	1.34	1.37
13	A	842	CL7	C1B-C2B	2.58	1.49	1.43
13	A	808	CL7	C1D-C2D	2.58	1.49	1.43
19	I	101	WVN	C27-C25	2.58	1.56	1.50
13	B	846	CL7	MG-ND	-2.57	2.00	2.05
13	B	802	CL7	C1B-C2B	2.57	1.49	1.43
13	A	840	CL7	C4C-NC	-2.57	1.34	1.37
13	B	815	CL7	C4C-NC	-2.57	1.34	1.37
13	B	824	CL7	C1B-C2B	2.57	1.49	1.43
13	A	829	CL7	C4C-NC	-2.57	1.34	1.37
13	K	103	CL7	MG-ND	-2.56	2.00	2.05
13	A	802	CL7	C4B-NB	-2.56	1.34	1.37
13	J	102	CL7	C1A-CHA	2.56	1.48	1.38
13	A	804	CL7	C1B-NB	-2.56	1.34	1.37
13	A	839	CL7	C4B-NB	-2.56	1.34	1.37
13	J	103	CL7	MG-ND	-2.56	2.00	2.05
13	A	855	CL7	C1B-C2B	2.56	1.49	1.43
13	A	803	CL7	C1B-C2B	2.55	1.49	1.43
13	B	818	CL7	C4C-NC	-2.55	1.34	1.37
13	A	810	CL7	MG-ND	-2.55	2.00	2.05
13	B	803	CL7	C4C-NC	-2.55	1.34	1.37
13	A	812	CL7	MG-ND	-2.55	2.00	2.05
13	A	804	CL7	MG-ND	-2.55	2.00	2.05
13	B	846	CL7	C1D-ND	-2.55	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	842	CL7	C4C-NC	-2.55	1.34	1.37
13	A	802	CL7	C1B-NB	-2.54	1.34	1.37
13	B	828	CL7	C4C-NC	-2.54	1.34	1.37
13	A	805	CL7	C1B-C2B	2.54	1.49	1.43
13	A	838	CL7	MG-ND	-2.54	2.00	2.05
13	B	814	CL7	MG-ND	-2.54	2.00	2.05
13	B	830	CL7	MG-ND	-2.54	2.00	2.05
19	B	848	WVN	C27-C25	2.54	1.56	1.50
13	B	843	CL7	C1B-C2B	2.54	1.49	1.43
13	A	809	CL7	C1B-NB	-2.54	1.34	1.37
13	B	831	CL7	C4B-NB	-2.54	1.34	1.37
13	A	836	CL7	MG-ND	-2.54	2.00	2.05
13	A	837	CL7	C4C-NC	-2.54	1.34	1.37
13	B	846	CL7	C4C-NC	-2.54	1.34	1.37
13	A	811	CL7	C4C-NC	-2.54	1.34	1.37
13	A	819	CL7	C4C-NC	-2.53	1.34	1.37
13	A	832	CL7	C1A-CHA	2.53	1.48	1.38
13	A	831	CL7	MG-ND	-2.53	2.00	2.05
13	A	803	CL7	MG-ND	-2.53	2.00	2.05
13	L	201	CL7	C4C-NC	-2.53	1.34	1.37
13	B	832	CL7	C1B-C2B	2.53	1.49	1.43
13	A	812	CL7	C4C-NC	-2.53	1.34	1.37
13	A	845	CL7	MG-ND	-2.53	2.00	2.05
13	A	837	CL7	C1B-NB	-2.53	1.34	1.37
13	B	838	CL7	C1B-NB	-2.53	1.34	1.37
13	A	815	CL7	MG-ND	-2.52	2.00	2.05
13	A	841	CL7	C4B-NB	-2.52	1.34	1.37
13	B	834	CL7	C1D-ND	-2.52	1.34	1.37
13	B	841	CL7	C4B-NB	-2.52	1.34	1.37
13	B	826	CL7	C4C-NC	-2.52	1.34	1.37
13	A	835	CL7	C1B-C2B	2.52	1.49	1.43
13	A	813	CL7	MG-ND	-2.51	2.00	2.05
13	B	843	CL7	MG-ND	-2.51	2.00	2.05
13	B	813	CL7	MG-ND	-2.51	2.00	2.05
19	I	101	WVN	C21-C15	2.51	1.54	1.50
13	B	816	CL7	MG-ND	-2.50	2.00	2.05
13	A	807	CL7	C4B-NB	-2.50	1.34	1.37
13	A	803	CL7	C3B-C4B	2.50	1.50	1.42
13	A	841	CL7	MG-ND	-2.50	2.00	2.05
13	J	102	CL7	C3D-C4D	-2.50	1.33	1.40
13	A	818	CL7	MG-ND	-2.50	2.00	2.05
13	B	829	CL7	C1B-NB	-2.50	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	837	CL7	MG-ND	-2.50	2.00	2.05
13	A	836	CL7	C4C-NC	-2.49	1.34	1.37
13	B	805	CL7	C4B-NB	-2.49	1.34	1.37
13	B	803	CL7	MG-ND	-2.49	2.00	2.05
13	A	832	CL7	C1B-C2B	2.48	1.49	1.43
13	A	840	CL7	C1B-C2B	2.48	1.49	1.43
13	A	807	CL7	MG-ND	-2.48	2.00	2.05
13	F	202	CL7	MG-ND	-2.48	2.00	2.05
13	B	819	CL7	C4C-NC	-2.48	1.34	1.37
13	B	804	CL7	C4C-NC	-2.48	1.34	1.37
13	B	805	CL7	C4C-NC	-2.47	1.34	1.37
13	A	855	CL7	MG-ND	-2.47	2.00	2.05
13	B	805	CL7	MG-ND	-2.47	2.00	2.05
13	B	833	CL7	C1B-C2B	2.47	1.48	1.43
13	A	802	CL7	MG-ND	-2.46	2.00	2.05
13	A	805	CL7	MG-ND	-2.46	2.00	2.05
13	B	840	CL7	C1B-NB	-2.46	1.34	1.37
13	A	839	CL7	C1D-C2D	2.46	1.48	1.43
13	B	809	CL7	MG-ND	-2.46	2.00	2.05
13	A	840	CL7	MG-ND	-2.46	2.00	2.05
19	L	202	WVN	C20-C13	2.46	1.53	1.45
13	J	102	CL7	OBD-CAD	2.46	1.26	1.22
13	F	206	CL7	MG-ND	-2.46	2.00	2.05
13	B	821	CL7	C4B-NB	-2.46	1.34	1.37
13	I	102	CL7	MG-ND	-2.45	2.00	2.05
13	J	102	CL7	C1B-C2B	2.45	1.48	1.43
13	A	829	CL7	MG-ND	-2.45	2.00	2.05
13	F	201	CL7	MG-ND	-2.45	2.00	2.05
13	A	830	CL7	C4C-NC	-2.45	1.34	1.37
13	A	819	CL7	C1B-C2B	2.45	1.48	1.43
22	B	845	K3I	C18-C5	2.45	1.54	1.50
13	B	802	CL7	C1D-C2D	2.45	1.48	1.43
19	F	205	WVN	C27-C25	2.44	1.55	1.50
13	L	207	CL7	C4C-NC	-2.44	1.34	1.37
13	A	822	CL7	C3B-C4B	2.44	1.49	1.42
13	B	833	CL7	C4B-NB	-2.44	1.34	1.37
13	A	822	CL7	MG-ND	-2.44	2.00	2.05
13	A	813	CL7	C3B-C4B	2.44	1.49	1.42
13	A	825	CL7	MG-ND	-2.44	2.01	2.05
13	B	824	CL7	C4B-NB	-2.44	1.34	1.37
13	A	808	CL7	C4C-NC	-2.44	1.34	1.37
13	L	204	CL7	C4C-NC	-2.44	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	F	201	CL7	C4C-NC	-2.43	1.34	1.37
13	A	828	CL7	C4C-NC	-2.43	1.34	1.37
13	A	809	CL7	C4B-NB	-2.43	1.34	1.37
13	A	831	CL7	C1B-C2B	2.43	1.48	1.43
13	B	810	CL7	C4B-NB	-2.43	1.34	1.37
13	K	103	CL7	C1B-NB	-2.43	1.34	1.37
13	A	843	CL7	MG-ND	-2.43	2.01	2.05
13	A	835	CL7	C3B-C4B	2.43	1.49	1.42
13	A	837	CL7	C4B-NB	-2.43	1.34	1.37
13	B	818	CL7	C4B-NB	-2.42	1.34	1.37
13	A	811	CL7	MG-ND	-2.42	2.01	2.05
13	A	848	CL7	MG-ND	-2.42	2.01	2.05
13	B	826	CL7	MG-ND	-2.42	2.01	2.05
13	A	827	CL7	MG-ND	-2.41	2.01	2.05
13	A	840	CL7	C4B-NB	-2.41	1.34	1.37
13	A	807	CL7	C4C-NC	-2.41	1.34	1.37
13	B	828	CL7	MG-ND	-2.41	2.01	2.05
13	B	817	CL7	C4C-NC	-2.41	1.34	1.37
13	B	831	CL7	MG-ND	-2.41	2.01	2.05
13	A	832	CL7	C1D-C2D	2.40	1.48	1.43
19	B	848	WVN	C20-C13	2.40	1.53	1.45
13	B	837	CL7	C4C-NC	-2.40	1.34	1.37
13	B	832	CL7	C4B-NB	-2.40	1.34	1.37
13	L	201	CL7	MG-ND	-2.40	2.01	2.05
13	A	845	CL7	C3B-C4B	2.40	1.49	1.42
13	B	834	CL7	C3B-C4B	2.40	1.49	1.42
13	B	817	CL7	MG-ND	-2.40	2.01	2.05
13	L	205	CL7	MG-ND	-2.40	2.01	2.05
13	I	102	CL7	C3B-C4B	2.40	1.49	1.42
19	A	854	WVN	C21-C15	2.40	1.54	1.50
13	F	206	CL7	C3B-C4B	2.40	1.49	1.42
19	L	209	WVN	C27-C25	2.40	1.55	1.50
13	A	838	CL7	C4C-C3C	2.39	1.49	1.45
13	A	843	CL7	C4C-NC	-2.39	1.34	1.37
13	B	840	CL7	MG-ND	-2.39	2.01	2.05
13	A	835	CL7	MG-ND	-2.39	2.01	2.05
13	B	814	CL7	C4C-NC	-2.39	1.34	1.37
13	B	830	CL7	C4B-NB	-2.39	1.34	1.37
13	B	822	CL7	OBD-CAD	2.39	1.26	1.22
13	B	842	CL7	MG-ND	-2.39	2.01	2.05
13	A	855	CL7	C3B-C4B	2.39	1.49	1.42
19	A	854	WVN	C27-C25	2.38	1.55	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	809	CL7	MG-ND	-2.38	2.01	2.05
20	L	203	LMG	C40-C39	-2.38	1.33	1.50
13	A	824	CL7	C3B-C4B	2.38	1.49	1.42
13	A	836	CL7	C4B-NB	-2.38	1.34	1.37
13	F	201	CL7	C4B-NB	-2.38	1.34	1.37
13	B	819	CL7	C4B-NB	-2.37	1.34	1.37
13	A	813	CL7	C4C-NC	-2.37	1.34	1.37
13	B	825	CL7	MG-ND	-2.37	2.01	2.05
19	L	209	WVN	C33-C34	2.37	1.51	1.46
13	B	832	CL7	C4C-NC	-2.37	1.34	1.37
13	A	837	CL7	MG-ND	-2.37	2.01	2.05
13	A	804	CL7	C4B-NB	-2.36	1.34	1.37
19	L	209	WVN	C21-C15	2.36	1.54	1.50
13	L	207	CL7	MG-ND	-2.36	2.01	2.05
13	A	823	CL7	C4C-NC	-2.35	1.34	1.37
13	B	837	CL7	C4B-NB	-2.35	1.34	1.37
12	A	801	G9R	C3B-C4B	2.35	1.49	1.42
13	B	846	CL7	C3D-C4D	-2.35	1.33	1.40
13	A	837	CL7	C3B-C4B	2.35	1.49	1.42
13	A	828	CL7	C4B-NB	-2.35	1.34	1.37
13	B	821	CL7	C4C-NC	-2.35	1.34	1.37
19	J	101	WVN	C21-C15	2.35	1.54	1.50
13	A	828	CL7	MG-ND	-2.34	2.01	2.05
13	A	842	CL7	MG-ND	-2.34	2.01	2.05
13	A	806	CL7	MG-ND	-2.34	2.01	2.05
13	A	831	CL7	C4C-NC	-2.34	1.34	1.37
14	B	844	LHG	P-O6	2.34	1.61	1.54
13	K	102	CL7	MG-ND	-2.34	2.01	2.05
13	A	816	CL7	C4C-C3C	2.34	1.49	1.45
13	A	817	CL7	C4C-NC	-2.34	1.34	1.37
13	A	829	CL7	C4B-NB	-2.34	1.34	1.37
13	A	805	CL7	C3B-C4B	2.33	1.49	1.42
18	A	849	PHO	C3D-C4D	-2.33	1.38	1.41
19	J	104	WVN	C27-C25	2.33	1.55	1.50
13	B	843	CL7	C4B-NB	-2.33	1.34	1.37
13	B	840	CL7	C4B-NB	-2.33	1.34	1.37
13	K	103	CL7	C4B-NB	-2.33	1.34	1.37
13	L	204	CL7	C4B-NB	-2.33	1.34	1.37
13	A	824	CL7	MG-ND	-2.33	2.01	2.05
13	A	810	CL7	C4B-NB	-2.33	1.34	1.37
13	B	822	CL7	C3B-C4B	2.33	1.49	1.42
14	B	844	LHG	P-O3	2.33	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	817	CL7	C3B-C4B	2.33	1.49	1.42
13	B	824	CL7	C4C-C3C	2.32	1.49	1.45
13	B	834	CL7	MG-ND	-2.32	2.01	2.05
19	K	101	WVN	C27-C25	2.32	1.55	1.50
13	B	823	CL7	MG-ND	-2.32	2.01	2.05
13	B	838	CL7	C4B-NB	-2.32	1.34	1.37
13	A	822	CL7	C4C-NC	-2.32	1.34	1.37
13	B	812	CL7	C3B-C4B	2.32	1.49	1.42
19	M	101	WVN	C21-C15	2.32	1.54	1.50
19	L	202	WVN	C27-C25	2.32	1.55	1.50
13	A	814	CL7	C4C-NC	-2.32	1.34	1.37
13	A	846	CL7	C4C-NC	-2.31	1.34	1.37
13	A	848	CL7	C4C-NC	-2.31	1.34	1.37
13	A	815	CL7	C4C-NC	-2.31	1.34	1.37
18	A	849	PHO	CBD-CGD	-2.31	1.49	1.52
13	B	817	CL7	C3B-C4B	2.31	1.49	1.42
13	A	838	CL7	C3B-C4B	2.31	1.49	1.42
19	J	101	WVN	C27-C25	2.31	1.55	1.50
13	A	832	CL7	C4B-NB	-2.30	1.34	1.37
13	A	822	CL7	C4B-NB	-2.30	1.34	1.37
13	A	831	CL7	C3B-C4B	2.30	1.49	1.42
13	A	840	CL7	C3B-C4B	2.30	1.49	1.42
13	B	813	CL7	C4C-NC	-2.30	1.34	1.37
13	B	806	CL7	C3B-C4B	2.30	1.49	1.42
13	B	806	CL7	MG-ND	-2.30	2.01	2.05
19	M	101	WVN	C27-C25	2.30	1.55	1.50
13	A	805	CL7	C4C-NC	-2.30	1.34	1.37
13	A	827	CL7	C4B-NB	-2.29	1.34	1.37
13	B	833	CL7	C4C-NC	-2.29	1.34	1.37
13	A	855	CL7	C4C-NC	-2.29	1.34	1.37
13	B	818	CL7	MG-ND	-2.29	2.01	2.05
13	B	806	CL7	C4B-NB	-2.29	1.34	1.37
13	A	819	CL7	C3B-C4B	2.29	1.49	1.42
13	B	819	CL7	C3B-C4B	2.29	1.49	1.42
13	A	825	CL7	C4C-NC	-2.29	1.34	1.37
13	B	815	CL7	C3B-C4B	2.29	1.49	1.42
13	A	842	CL7	C4B-NB	-2.29	1.34	1.37
13	A	814	CL7	MG-ND	-2.28	2.01	2.05
13	L	204	CL7	MG-ND	-2.28	2.01	2.05
13	B	842	CL7	C3B-C2B	2.28	1.47	1.39
13	A	814	CL7	C4B-NB	-2.28	1.34	1.37
19	M	101	WVN	C33-C34	2.28	1.50	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	816	CL7	C4B-NB	-2.28	1.34	1.37
13	B	834	CL7	C4C-C3C	2.28	1.49	1.45
13	B	803	CL7	C3B-C4B	2.27	1.49	1.42
13	A	827	CL7	C3B-C4B	2.27	1.49	1.42
13	B	807	CL7	MG-ND	-2.27	2.01	2.05
13	F	206	CL7	C4C-NC	-2.27	1.34	1.37
13	K	102	CL7	C4C-NC	-2.26	1.34	1.37
13	B	828	CL7	C3B-C4B	2.26	1.49	1.42
13	F	202	CL7	C4B-NB	-2.26	1.34	1.37
13	K	102	CL7	C3B-C4B	2.26	1.49	1.42
13	B	809	CL7	C3B-C4B	2.26	1.49	1.42
13	A	835	CL7	C4C-NC	-2.26	1.34	1.37
13	B	830	CL7	C4C-NC	-2.26	1.34	1.37
13	B	813	CL7	C3B-C4B	2.26	1.49	1.42
13	B	840	CL7	C4C-C3C	2.25	1.49	1.45
13	B	811	CL7	C3B-C4B	2.25	1.49	1.42
13	A	838	CL7	C4C-NC	-2.25	1.34	1.37
13	B	808	CL7	C4B-NB	-2.25	1.34	1.37
13	K	103	CL7	C4C-C3C	2.25	1.49	1.45
13	B	824	CL7	C4C-NC	-2.25	1.34	1.37
13	B	826	CL7	C3B-C4B	2.25	1.49	1.42
13	B	804	CL7	C4B-NB	-2.25	1.34	1.37
13	B	841	CL7	C4C-NC	-2.24	1.34	1.37
13	A	819	CL7	MG-ND	-2.24	2.01	2.05
13	B	822	CL7	C3D-C4D	-2.23	1.34	1.40
13	B	821	CL7	MG-ND	-2.23	2.01	2.05
13	B	816	CL7	C4B-NB	-2.23	1.34	1.37
13	A	824	CL7	C1B-C2B	2.23	1.48	1.43
20	L	203	LMG	O1-C1	2.23	1.43	1.40
19	A	853	WVN	C21-C15	2.22	1.54	1.50
13	I	102	CL7	C4C-NC	-2.22	1.34	1.37
13	B	823	CL7	C3B-C4B	2.22	1.49	1.42
13	A	815	CL7	C4B-NB	-2.22	1.34	1.37
13	A	827	CL7	C4C-NC	-2.22	1.34	1.37
13	B	841	CL7	C1D-C2D	2.22	1.48	1.43
13	A	832	CL7	C3D-C4D	-2.22	1.34	1.40
13	L	207	CL7	C4B-NB	-2.21	1.35	1.37
13	B	810	CL7	C4C-NC	-2.21	1.35	1.37
13	B	807	CL7	C3B-C4B	2.21	1.49	1.42
13	B	825	CL7	C4C-NC	-2.21	1.35	1.37
13	B	832	CL7	C4C-C3C	2.21	1.49	1.45
19	A	852	WVN	C21-C15	2.20	1.54	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	845	K3I	C19-C9	2.20	1.55	1.50
13	B	808	CL7	C3D-C4D	-2.20	1.34	1.40
13	A	806	CL7	C4C-NC	-2.20	1.35	1.37
13	A	838	CL7	C4B-NB	-2.20	1.35	1.37
13	J	103	CL7	C4C-NC	-2.19	1.35	1.37
13	B	811	CL7	C3D-C4D	-2.18	1.34	1.40
19	F	204	WVN	C27-C25	2.18	1.55	1.50
19	A	851	WVN	C27-C25	2.18	1.55	1.50
13	B	817	CL7	C4B-NB	-2.18	1.35	1.37
13	B	834	CL7	C4C-NC	-2.18	1.35	1.37
13	B	826	CL7	C4C-C3C	2.18	1.49	1.45
13	A	812	CL7	C4B-NB	-2.18	1.35	1.37
13	A	839	CL7	C3D-C4D	-2.18	1.34	1.40
13	A	813	CL7	C3D-C4D	-2.18	1.34	1.40
13	A	816	CL7	C4C-NC	-2.18	1.35	1.37
13	A	808	CL7	C3B-C4B	2.17	1.49	1.42
13	A	848	CL7	C3B-C4B	2.17	1.49	1.42
13	L	205	CL7	C3B-C4B	2.17	1.49	1.42
13	A	828	CL7	C3B-C4B	2.17	1.49	1.42
13	B	811	CL7	C4C-NC	-2.17	1.35	1.37
13	F	202	CL7	C4C-NC	-2.17	1.35	1.37
13	B	825	CL7	C3B-C4B	2.17	1.49	1.42
13	F	202	CL7	C4C-C3C	2.17	1.49	1.45
13	A	843	CL7	C3D-C4D	-2.17	1.34	1.40
13	A	855	CL7	C3A-C2A	-2.16	1.52	1.54
13	B	822	CL7	C4B-NB	-2.16	1.35	1.37
13	A	832	CL7	MG-ND	-2.16	2.01	2.05
13	B	815	CL7	C3D-C4D	-2.16	1.34	1.40
13	B	812	CL7	C4B-NB	-2.16	1.35	1.37
13	A	803	CL7	C4C-NC	-2.16	1.35	1.37
13	A	808	CL7	C4B-NB	-2.16	1.35	1.37
13	A	812	CL7	C3B-C4B	2.16	1.49	1.42
13	B	809	CL7	C4B-NB	-2.16	1.35	1.37
13	B	816	CL7	C4C-NC	-2.16	1.35	1.37
13	B	833	CL7	C4C-C3C	2.16	1.49	1.45
13	A	817	CL7	MG-ND	-2.15	2.01	2.05
13	L	205	CL7	C4B-NB	-2.15	1.35	1.37
13	B	825	CL7	C4B-NB	-2.15	1.35	1.37
13	B	840	CL7	C3D-C4D	-2.15	1.34	1.40
13	A	805	CL7	C4B-NB	-2.15	1.35	1.37
13	B	838	CL7	C3D-C4D	-2.14	1.34	1.40
13	B	809	CL7	C3D-C4D	-2.14	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	835	CL7	C4B-NB	-2.14	1.35	1.37
13	B	838	CL7	C4C-C3C	2.14	1.49	1.45
13	A	848	CL7	C4B-NB	-2.14	1.35	1.37
13	B	830	CL7	C4C-C3C	2.14	1.49	1.45
13	K	103	CL7	C3D-C4D	-2.14	1.34	1.40
13	B	833	CL7	C3D-C4D	-2.14	1.34	1.40
13	A	822	CL7	C4C-C3C	2.13	1.48	1.45
13	L	201	CL7	C4C-C3C	2.13	1.48	1.45
13	A	840	CL7	C3D-C4D	-2.13	1.34	1.40
13	A	838	CL7	C3D-C4D	-2.13	1.34	1.40
13	A	839	CL7	C4C-NC	-2.13	1.35	1.37
13	A	832	CL7	C3B-C4B	2.13	1.49	1.42
13	B	819	CL7	MG-ND	-2.13	2.01	2.05
13	A	848	CL7	C4C-C3C	2.13	1.48	1.45
13	B	808	CL7	C3B-C4B	2.13	1.48	1.42
13	B	829	CL7	C3D-C4D	-2.13	1.34	1.40
13	J	103	CL7	C4B-NB	-2.13	1.35	1.37
13	A	804	CL7	C3B-C4B	2.12	1.48	1.42
13	A	803	CL7	C3D-C4D	-2.12	1.34	1.40
13	F	206	CL7	C4B-NB	-2.12	1.35	1.37
13	B	804	CL7	C3D-C4D	-2.11	1.34	1.40
13	B	813	CL7	C3D-C4D	-2.11	1.34	1.40
13	A	808	CL7	C3D-C4D	-2.11	1.34	1.40
19	M	101	WVN	C37-C34	-2.11	1.30	1.35
13	J	103	CL7	C4C-C3C	2.10	1.48	1.45
13	J	103	CL7	C3B-C4B	2.10	1.48	1.42
13	B	818	CL7	C3D-C4D	-2.10	1.34	1.40
13	A	840	CL7	C4C-C3C	2.10	1.48	1.45
13	A	804	CL7	C4C-NC	-2.10	1.35	1.37
13	B	811	CL7	C4C-C3C	2.10	1.48	1.45
13	A	810	CL7	C3D-C4D	-2.10	1.34	1.40
13	F	206	CL7	C3D-C4D	-2.10	1.34	1.40
13	A	811	CL7	C4C-C3C	2.10	1.48	1.45
13	B	843	CL7	C3B-C4B	2.09	1.48	1.42
13	A	812	CL7	C4C-C3C	2.09	1.48	1.45
13	A	836	CL7	C3B-C4B	2.09	1.48	1.42
13	A	803	CL7	C4B-NB	-2.09	1.35	1.37
13	A	811	CL7	C3D-C4D	-2.08	1.34	1.40
13	A	827	CL7	C4C-C3C	2.08	1.48	1.45
13	A	829	CL7	C3B-C4B	2.08	1.48	1.42
13	A	818	CL7	C4C-C3C	2.07	1.48	1.45
13	A	810	CL7	C4C-NC	-2.07	1.35	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	824	CL7	C3D-C4D	-2.07	1.34	1.40
13	A	839	CL7	C4C-C3C	2.07	1.48	1.45
13	A	841	CL7	C3D-C4D	-2.07	1.34	1.40
19	L	202	WVN	C21-C15	2.07	1.54	1.50
13	A	809	CL7	C4C-C3C	2.07	1.48	1.45
13	B	811	CL7	C4B-NB	-2.06	1.35	1.37
13	B	832	CL7	C3D-C4D	-2.06	1.34	1.40
13	A	814	CL7	C4C-C3C	2.06	1.48	1.45
13	F	201	CL7	C3B-C4B	2.06	1.48	1.42
13	A	832	CL7	C3A-C4A	-2.06	1.48	1.52
13	B	840	CL7	C3B-C4B	2.06	1.48	1.42
13	A	845	CL7	C3D-C4D	-2.06	1.34	1.40
13	B	822	CL7	C4C-NC	-2.06	1.35	1.37
13	A	831	CL7	C4C-C3C	2.06	1.48	1.45
19	A	851	WVN	C21-C15	2.06	1.54	1.50
13	A	831	CL7	C3D-C4D	-2.05	1.34	1.40
19	L	210	WVN	C21-C15	2.05	1.54	1.50
13	A	848	CL7	C3D-C4D	-2.05	1.34	1.40
13	A	827	CL7	C3D-C4D	-2.05	1.34	1.40
13	B	830	CL7	C3D-C4D	-2.05	1.34	1.40
13	B	816	CL7	C4C-C3C	2.05	1.48	1.45
19	A	852	WVN	C27-C25	2.05	1.55	1.50
12	A	801	G9R	C1D-C2D	2.04	1.49	1.45
13	B	831	CL7	C3D-C4D	-2.04	1.34	1.40
13	F	202	CL7	C3B-C4B	2.04	1.48	1.42
13	I	102	CL7	C3D-C4D	-2.04	1.34	1.40
12	A	801	G9R	C4B-NB	-2.04	1.35	1.37
13	B	817	CL7	C3D-C4D	-2.04	1.34	1.40
13	B	803	CL7	C4B-NB	-2.04	1.35	1.37
13	B	816	CL7	C3D-C4D	-2.04	1.34	1.40
13	A	835	CL7	C3D-C4D	-2.04	1.34	1.40
13	A	819	CL7	C4B-NB	-2.04	1.35	1.37
13	B	812	CL7	C3D-C4D	-2.04	1.34	1.40
13	B	832	CL7	C3B-C4B	2.03	1.48	1.42
13	B	810	CL7	C3D-C4D	-2.03	1.34	1.40
13	K	103	CL7	C4C-NC	-2.03	1.35	1.37
13	A	846	CL7	C3D-C4D	-2.03	1.34	1.40
18	B	801	PHO	C1B-C2B	2.03	1.41	1.39
13	A	842	CL7	C3B-C4B	2.03	1.48	1.42
13	F	206	CL7	C4C-C3C	2.03	1.48	1.45
13	B	841	CL7	C3B-C4B	2.03	1.48	1.42
13	A	855	CL7	C4C-C3C	2.03	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	829	CL7	C3D-C4D	-2.03	1.34	1.40
13	J	103	CL7	C3D-C4D	-2.03	1.34	1.40
13	A	805	CL7	C3D-C4D	-2.02	1.34	1.40
13	F	202	CL7	C3D-C4D	-2.02	1.34	1.40
13	B	825	CL7	C3D-C4D	-2.02	1.34	1.40
13	K	102	CL7	C4B-NB	-2.02	1.35	1.37
13	A	815	CL7	C3B-C4B	2.02	1.48	1.42
13	B	821	CL7	C3B-C4B	2.02	1.48	1.42
13	B	843	CL7	C4C-NC	-2.02	1.35	1.37
13	K	102	CL7	C4C-C3C	2.02	1.48	1.45
13	B	818	CL7	C4C-C3C	2.02	1.48	1.45
13	B	843	CL7	C3D-C4D	-2.02	1.34	1.40
13	K	103	CL7	C3B-C4B	2.02	1.48	1.42
13	B	805	CL7	C3D-C4D	-2.02	1.34	1.40
13	A	809	CL7	C3D-C4D	-2.01	1.34	1.40
13	A	822	CL7	C3D-C4D	-2.01	1.34	1.40
13	B	837	CL7	C3D-C4D	-2.01	1.34	1.40
13	B	812	CL7	C4C-C3C	2.01	1.48	1.45
13	A	823	CL7	C4C-C3C	2.01	1.48	1.45
13	B	828	CL7	C4B-NB	-2.01	1.35	1.37
13	B	806	CL7	C3D-C4D	-2.01	1.34	1.40
13	A	815	CL7	C4C-C3C	2.01	1.48	1.45
13	A	814	CL7	C3B-C4B	2.01	1.48	1.42
13	A	810	CL7	C3B-C4B	2.00	1.48	1.42
13	B	834	CL7	C4B-NB	-2.00	1.35	1.37
13	L	204	CL7	C3B-C4B	2.00	1.48	1.42

All (2549) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	839	CL7	O2A-CGA-O1A	-21.15	70.72	123.63
13	A	848	CL7	O2A-CGA-O1A	-20.52	70.56	123.33
13	A	839	CL7	O2A-CGA-CBA	14.46	155.93	111.83
13	A	848	CL7	O1A-CGA-CBA	10.58	156.64	123.09
13	A	839	CL7	O1A-CGA-CBA	-9.84	85.28	123.78
13	B	841	CL7	CMA-C3A-C2A	-9.73	76.37	113.98
13	B	846	CL7	CMD-C2D-C1D	9.24	139.49	125.42
13	A	846	CL7	CMD-C2D-C1D	9.05	139.21	125.42
13	A	848	CL7	CMD-C2D-C1D	9.05	139.20	125.42
13	B	824	CL7	CMD-C2D-C1D	9.02	139.16	125.42
13	B	806	CL7	CMD-C2D-C1D	9.02	139.15	125.42
13	A	809	CL7	CMD-C2D-C1D	9.02	139.15	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	F	206	CL7	CMD-C2D-C1D	8.99	139.11	125.42
13	B	821	CL7	CMD-C2D-C1D	8.99	139.11	125.42
13	B	833	CL7	CMD-C2D-C1D	8.96	139.06	125.42
13	B	831	CL7	CMD-C2D-C1D	8.94	139.03	125.42
13	B	843	CL7	CMD-C2D-C1D	8.92	139.00	125.42
13	A	840	CL7	CMD-C2D-C1D	8.91	138.98	125.42
13	B	834	CL7	CMD-C2D-C1D	8.90	138.97	125.42
13	A	845	CL7	CMD-C2D-C1D	8.86	138.91	125.42
13	F	201	CL7	CMD-C2D-C1D	8.85	138.90	125.42
13	A	813	CL7	CMD-C2D-C1D	8.85	138.90	125.42
13	B	840	CL7	CMD-C2D-C1D	8.85	138.89	125.42
13	A	835	CL7	CMD-C2D-C1D	8.84	138.88	125.42
13	A	848	CL7	O2A-CGA-CBA	-8.84	86.08	114.00
13	B	819	CL7	CMD-C2D-C1D	8.83	138.86	125.42
13	A	831	CL7	CMD-C2D-C1D	8.82	138.85	125.42
13	B	816	CL7	CMD-C2D-C1D	8.82	138.85	125.42
13	B	830	CL7	CMD-C2D-C1D	8.81	138.84	125.42
13	B	811	CL7	CMD-C2D-C1D	8.80	138.82	125.42
13	B	818	CL7	CMD-C2D-C1D	8.80	138.81	125.42
13	A	855	CL7	CMD-C2D-C1D	8.80	138.81	125.42
13	A	803	CL7	CMD-C2D-C1D	8.79	138.81	125.42
13	B	815	CL7	CMD-C2D-C1D	8.78	138.79	125.42
13	B	813	CL7	CMD-C2D-C1D	8.76	138.76	125.42
13	J	103	CL7	CMD-C2D-C1D	8.76	138.75	125.42
13	A	816	CL7	CMD-C2D-C1D	8.76	138.75	125.42
13	A	827	CL7	CMD-C2D-C1D	8.75	138.74	125.42
13	B	809	CL7	CMD-C2D-C1D	8.75	138.74	125.42
13	F	202	CL7	CMD-C2D-C1D	8.74	138.72	125.42
13	I	102	CL7	CMD-C2D-C1D	8.72	138.70	125.42
13	K	103	CL7	CMD-C2D-C1D	8.72	138.69	125.42
13	A	806	CL7	CMD-C2D-C1D	8.70	138.67	125.42
13	J	102	CL7	CMD-C2D-C1D	8.70	138.67	125.42
13	K	102	CL7	CMD-C2D-C1D	8.70	138.66	125.42
13	B	837	CL7	CMD-C2D-C1D	8.69	138.64	125.42
19	L	210	WVN	C21-C15-C13	-8.67	115.02	124.48
13	A	829	CL7	CMD-C2D-C1D	8.66	138.61	125.42
13	A	823	CL7	CMD-C2D-C1D	8.66	138.60	125.42
13	A	838	CL7	CMD-C2D-C1D	8.64	138.58	125.42
13	L	204	CL7	CMD-C2D-C1D	8.61	138.52	125.42
13	A	815	CL7	CMD-C2D-C1D	8.59	138.50	125.42
13	B	805	CL7	CMD-C2D-C1D	8.59	138.49	125.42
13	A	828	CL7	CMD-C2D-C1D	8.57	138.47	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	810	CL7	CMD-C2D-C1D	8.57	138.46	125.42
13	B	829	CL7	CMD-C2D-C1D	8.56	138.46	125.42
13	B	822	CL7	CMD-C2D-C1D	8.53	138.40	125.42
13	B	825	CL7	CMD-C2D-C1D	8.51	138.38	125.42
13	B	810	CL7	CMD-C2D-C1D	8.50	138.36	125.42
13	L	205	CL7	CMD-C2D-C1D	8.50	138.36	125.42
13	B	817	CL7	CMD-C2D-C1D	8.47	138.32	125.42
13	B	812	CL7	CMD-C2D-C1D	8.47	138.31	125.42
13	A	836	CL7	CMD-C2D-C1D	8.47	138.31	125.42
13	B	823	CL7	CMD-C2D-C1D	8.44	138.27	125.42
13	B	808	CL7	CMD-C2D-C1D	8.42	138.24	125.42
13	A	825	CL7	CMD-C2D-C1D	8.41	138.22	125.42
13	B	826	CL7	CMD-C2D-C1D	8.36	138.16	125.42
13	A	811	CL7	CMD-C2D-C1D	8.33	138.11	125.42
13	L	207	CL7	CMD-C2D-C1D	8.33	138.11	125.42
13	B	832	CL7	CMD-C2D-C1D	8.32	138.09	125.42
13	A	805	CL7	CMD-C2D-C1D	8.31	138.07	125.42
13	A	808	CL7	CMD-C2D-C1D	8.31	138.06	125.42
13	A	824	CL7	CMD-C2D-C1D	8.29	138.03	125.42
13	A	839	CL7	CMD-C2D-C1D	8.22	137.94	125.42
13	A	817	CL7	CMD-C2D-C1D	8.21	137.93	125.42
13	A	842	CL7	CMD-C2D-C1D	8.21	137.93	125.42
19	B	847	WVN	C04-C09-C05	-8.19	117.01	124.83
13	A	837	CL7	CMD-C2D-C1D	8.16	137.84	125.42
13	A	804	CL7	CMD-C2D-C1D	8.14	137.81	125.42
13	B	804	CL7	CMD-C2D-C1D	8.12	137.79	125.42
13	A	843	CL7	CMD-C2D-C1D	8.11	137.77	125.42
13	A	841	CL7	CMD-C2D-C1D	8.09	137.74	125.42
13	A	807	CL7	CMD-C2D-C1D	8.08	137.72	125.42
13	B	828	CL7	CMD-C2D-C1D	8.08	137.72	125.42
19	A	852	WVN	C04-C09-C05	-8.07	117.12	124.83
13	B	803	CL7	CMD-C2D-C1D	8.04	137.66	125.42
13	B	838	CL7	CMD-C2D-C1D	8.03	137.65	125.42
13	A	814	CL7	CMD-C2D-C1D	8.03	137.64	125.42
19	A	851	WVN	C06-C13-C15	-7.94	111.78	122.64
13	A	812	CL7	CMD-C2D-C1D	7.92	137.48	125.42
13	A	802	CL7	CMD-C2D-C1D	7.89	137.43	125.42
13	B	814	CL7	CMD-C2D-C1D	7.87	137.40	125.42
13	A	830	CL7	CMD-C2D-C1D	7.85	137.38	125.42
13	B	807	CL7	CMD-C2D-C1D	7.85	137.37	125.42
13	A	822	CL7	CMD-C2D-C1D	7.84	137.36	125.42
13	A	818	CL7	CMD-C2D-C1D	7.80	137.29	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J	102	CL7	O2D-CGD-CBD	7.79	124.86	111.23
13	L	201	CL7	CMD-C2D-C1D	7.71	137.16	125.42
19	L	210	WVN	C02-C11-C19	-7.69	112.62	124.58
19	A	850	WVN	C04-C09-C05	-7.63	117.55	124.83
13	B	829	CL7	C2C-C1C-NC	7.57	117.62	110.13
13	A	819	CL7	CMD-C2D-C1D	7.57	136.94	125.42
19	A	851	WVN	C21-C15-C13	-7.50	116.30	124.48
13	A	832	CL7	CMD-C2D-C1D	7.46	136.78	125.42
19	F	204	WVN	C14-C15-C13	-7.42	112.67	122.70
19	A	854	WVN	C04-C09-C05	-7.40	117.76	124.83
12	A	801	G9R	CMD-C2D-C1D	7.22	137.45	124.73
19	L	202	WVN	C20-C23-C25	-7.11	115.72	126.23
19	F	205	WVN	C04-C09-C05	-6.94	118.20	124.83
13	B	802	CL7	CMD-C2D-C1D	6.85	135.84	125.42
13	A	832	CL7	O2D-CGD-CBD	6.79	123.10	111.23
19	A	853	WVN	C04-C09-C05	-6.77	118.37	124.83
19	A	851	WVN	C14-C15-C13	-6.73	113.61	122.70
19	M	101	WVN	C20-C23-C25	-6.73	116.28	126.23
19	M	101	WVN	C04-C09-C05	-6.64	118.49	124.83
13	L	201	CL7	C2C-C1C-NC	6.61	116.67	110.13
19	I	101	WVN	C04-C09-C05	-6.57	118.56	124.83
19	J	101	WVN	C21-C15-C13	-6.56	117.32	124.48
13	A	818	CL7	C2C-C1C-NC	6.55	116.61	110.13
13	A	807	CL7	O2D-CGD-CBD	6.53	122.64	111.23
13	B	822	CL7	C2C-C1C-NC	6.52	116.58	110.13
19	L	202	WVN	C14-C15-C13	-6.52	113.90	122.70
13	B	842	CL7	C3B-C2B-C1B	-6.51	99.57	106.81
13	B	846	CL7	C2C-C1C-NC	6.50	116.56	110.13
13	B	824	CL7	C2C-C1C-NC	6.49	116.55	110.13
13	A	810	CL7	O2D-CGD-CBD	6.49	122.58	111.23
19	B	848	WVN	C20-C23-C25	-6.49	116.64	126.23
13	A	816	CL7	C2C-C1C-NC	6.38	116.44	110.13
13	A	809	CL7	O2D-CGD-CBD	6.36	122.35	111.23
13	B	802	CL7	O2D-CGD-CBD	6.35	122.33	111.23
18	B	801	PHO	C4D-CHA-CBD	-6.32	105.42	108.45
19	F	204	WVN	C06-C13-C15	-6.31	114.02	122.64
13	A	838	CL7	C2C-C1C-NC	6.29	116.35	110.13
13	B	834	CL7	C2C-C1C-NC	6.25	116.31	110.13
13	I	102	CL7	C2C-C1C-NC	6.24	116.30	110.13
13	B	804	CL7	C2C-C1C-NC	6.24	116.30	110.13
13	B	823	CL7	C2C-C1C-NC	6.23	116.30	110.13
13	B	828	CL7	O2D-CGD-CBD	6.22	122.11	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	817	CL7	C2C-C1C-NC	6.22	116.28	110.13
13	A	831	CL7	C2C-C1C-NC	6.21	116.28	110.13
19	K	101	WVN	C02-C11-C19	-6.21	114.91	124.58
13	A	829	CL7	O2D-CGD-CBD	6.19	122.05	111.23
13	B	806	CL7	C1D-ND-C4D	-6.19	101.97	106.31
22	B	845	K3I	C7-C8-C9	-6.15	117.13	126.23
13	B	810	CL7	C2C-C1C-NC	6.15	116.21	110.13
13	A	812	CL7	C2C-C1C-NC	6.15	116.21	110.13
13	B	826	CL7	C2C-C1C-NC	6.15	116.21	110.13
13	B	830	CL7	C2C-C1C-NC	6.14	116.21	110.13
19	A	853	WVN	C02-C05-C09	-6.14	113.91	121.47
13	B	805	CL7	C2C-C1C-NC	6.12	116.18	110.13
13	A	830	CL7	C2C-C1C-NC	6.11	116.17	110.13
13	A	810	CL7	CMA-C3A-C2A	-6.09	102.26	116.23
13	A	806	CL7	C2C-C1C-NC	6.09	116.15	110.13
13	A	822	CL7	C2C-C1C-NC	6.09	116.15	110.13
13	B	818	CL7	C2C-C1C-NC	6.08	116.15	110.13
13	B	822	CL7	O2D-CGD-CBD	6.08	121.86	111.23
13	B	833	CL7	C2C-C1C-NC	6.08	116.14	110.13
13	J	103	CL7	C2C-C1C-NC	6.08	116.14	110.13
19	L	209	WVN	C02-C11-C19	-6.07	115.13	124.58
13	K	103	CL7	C2C-C1C-NC	6.07	116.13	110.13
13	B	814	CL7	C2C-C1C-NC	6.07	116.13	110.13
19	K	101	WVN	C20-C23-C25	-6.06	117.28	126.23
13	B	841	CL7	O2D-CGD-CBD	6.06	121.82	111.23
13	B	841	CL7	CMD-C2D-C1D	6.04	134.62	125.42
13	A	830	CL7	O2D-CGD-CBD	6.04	121.79	111.23
13	A	808	CL7	C2C-C1C-NC	6.04	116.10	110.13
13	A	827	CL7	C2C-C1C-NC	6.04	116.10	110.13
19	J	104	WVN	C02-C05-C09	-6.03	114.05	121.47
13	F	202	CL7	C2C-C1C-NC	6.01	116.07	110.13
13	B	811	CL7	C2C-C1C-NC	6.01	116.07	110.13
13	A	809	CL7	C2C-C1C-NC	6.00	116.06	110.13
13	L	205	CL7	C2C-C1C-NC	6.00	116.06	110.13
13	A	845	CL7	C2C-C1C-NC	5.99	116.05	110.13
13	A	802	CL7	C2C-C1C-NC	5.99	116.05	110.13
13	B	832	CL7	C2C-C1C-NC	5.98	116.04	110.13
19	F	205	WVN	C02-C05-C09	-5.97	114.12	121.47
13	A	839	CL7	O2D-CGD-CBD	5.97	121.67	111.23
13	B	812	CL7	C2C-C1C-NC	5.97	116.03	110.13
13	B	816	CL7	C2C-C1C-NC	5.96	116.03	110.13
13	B	831	CL7	C2C-C1C-NC	5.96	116.03	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L	207	CL7	C2C-C1C-NC	5.96	116.03	110.13
13	J	102	CL7	C2C-C1C-NC	5.95	116.02	110.13
19	A	852	WVN	C02-C05-C09	-5.94	114.15	121.47
13	F	206	CL7	C2C-C1C-NC	5.94	116.01	110.13
13	A	823	CL7	C3B-C2B-C1B	-5.93	100.18	107.17
13	A	813	CL7	O2D-CGD-CBD	5.92	121.58	111.23
19	B	848	WVN	C02-C05-C09	-5.92	114.18	121.47
13	B	815	CL7	C2C-C1C-NC	5.92	115.98	110.13
13	A	846	CL7	C2C-C1C-NC	5.91	115.97	110.13
13	A	825	CL7	C2C-C1C-NC	5.91	115.97	110.13
13	B	838	CL7	C2C-C1C-NC	5.91	115.97	110.13
13	A	804	CL7	O2D-CGD-CBD	5.90	121.55	111.23
12	A	801	G9R	C2C-C1C-NC	5.90	116.18	109.98
13	A	829	CL7	C2C-C1C-NC	5.90	115.96	110.13
13	A	804	CL7	C2C-C1C-NC	5.90	115.96	110.13
13	A	828	CL7	C2C-C1C-NC	5.89	115.96	110.13
13	L	201	CL7	O2D-CGD-CBD	5.89	121.53	111.23
13	B	806	CL7	O2D-CGD-CBD	5.89	121.53	111.23
13	A	815	CL7	C2C-C1C-NC	5.88	115.95	110.13
13	A	839	CL7	C2C-C1C-NC	5.88	115.94	110.13
13	B	818	CL7	O2D-CGD-CBD	5.88	121.50	111.23
13	B	840	CL7	C2C-C1C-NC	5.87	115.94	110.13
13	A	803	CL7	C2C-C1C-NC	5.86	115.93	110.13
13	B	825	CL7	C2C-C1C-NC	5.86	115.92	110.13
13	B	824	CL7	CMA-C3A-C2A	-5.85	91.36	113.98
13	A	807	CL7	C2C-C1C-NC	5.85	115.91	110.13
13	A	827	CL7	O2A-CGA-O1A	-5.84	109.02	123.63
13	L	205	CL7	O2D-CGD-CBD	5.83	121.43	111.23
13	B	809	CL7	C2C-C1C-NC	5.83	115.90	110.13
13	J	102	CL7	C3B-C2B-C1B	-5.83	100.30	107.17
13	A	810	CL7	C2C-C1C-NC	5.83	115.89	110.13
19	B	847	WVN	C20-C23-C25	-5.82	117.63	126.23
13	B	808	CL7	C2C-C1C-NC	5.80	115.87	110.13
13	B	829	CL7	O2D-CGD-CBD	5.80	121.37	111.23
13	B	841	CL7	C2C-C1C-NC	5.80	115.87	110.13
13	F	201	CL7	C2C-C1C-NC	5.80	115.86	110.13
13	A	835	CL7	C2C-C1C-NC	5.79	115.86	110.13
13	B	815	CL7	O2D-CGD-CBD	5.79	121.35	111.23
13	A	837	CL7	C1D-ND-C4D	-5.79	102.25	106.31
13	A	824	CL7	C2C-C1C-NC	5.79	115.85	110.13
13	L	205	CL7	C1D-ND-C4D	-5.78	102.25	106.31
13	B	809	CL7	CMA-C3A-C2A	-5.78	102.97	116.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	848	CL7	C2C-C1C-NC	5.75	115.82	110.13
13	B	826	CL7	C1D-ND-C4D	-5.75	102.28	106.31
13	A	842	CL7	C2C-C1C-NC	5.75	115.81	110.13
13	A	823	CL7	C2C-C1C-NC	5.74	115.81	110.13
13	B	806	CL7	C2C-C1C-NC	5.74	115.80	110.13
13	B	802	CL7	C2D-C1D-ND	5.74	116.28	110.33
13	A	843	CL7	O2D-CGD-CBD	5.73	121.24	111.23
13	A	811	CL7	C2C-C1C-NC	5.72	115.79	110.13
19	L	210	WVN	C04-C09-C05	-5.71	119.38	124.83
13	K	102	CL7	C2C-C1C-NC	5.71	115.78	110.13
13	A	814	CL7	C2C-C1C-NC	5.71	115.77	110.13
13	B	813	CL7	O2D-CGD-CBD	5.70	121.20	111.23
19	L	210	WVN	C06-C13-C15	-5.70	114.85	122.64
13	L	204	CL7	C2C-C1C-NC	5.69	115.75	110.13
13	A	855	CL7	C2C-C1C-NC	5.67	115.74	110.13
13	B	828	CL7	C2C-C1C-NC	5.67	115.74	110.13
13	A	803	CL7	O2D-CGD-CBD	5.67	121.14	111.23
13	B	837	CL7	C2C-C1C-NC	5.66	115.73	110.13
13	B	803	CL7	C2C-C1C-NC	5.65	115.72	110.13
13	A	840	CL7	C2C-C1C-NC	5.62	115.69	110.13
19	L	209	WVN	C20-C23-C25	-5.62	117.93	126.23
13	B	815	CL7	O2A-CGA-O1A	-5.62	109.58	123.63
19	A	853	WVN	C21-C15-C13	-5.62	118.36	124.48
13	A	841	CL7	C2C-C1C-NC	5.60	115.67	110.13
13	L	204	CL7	C1D-ND-C4D	-5.60	102.39	106.31
13	B	802	CL7	C2C-C1C-NC	5.60	115.66	110.13
19	M	101	WVN	C02-C05-C09	-5.59	114.59	121.47
13	B	802	CL7	C3B-C2B-C1B	-5.59	100.58	107.17
13	A	817	CL7	C2C-C1C-NC	5.59	115.66	110.13
13	L	204	CL7	O2D-CGD-CBD	5.59	121.00	111.23
13	B	826	CL7	C2D-C1D-ND	5.58	116.11	110.33
13	B	831	CL7	O2D-CGD-CBD	5.57	120.96	111.23
13	B	841	CL7	C2D-C1D-ND	5.57	116.10	110.33
13	L	205	CL7	C2D-C1D-ND	5.57	116.10	110.33
19	J	101	WVN	C02-C11-C19	-5.56	115.93	124.58
13	B	830	CL7	O2D-CGD-CBD	5.56	120.95	111.23
13	B	826	CL7	O2D-CGD-CBD	5.56	120.94	111.23
13	B	808	CL7	O2D-CGD-CBD	5.55	120.93	111.23
13	B	842	CL7	C3C-C2C-C1C	-5.55	100.61	107.35
13	A	837	CL7	C2D-C1D-ND	5.53	116.06	110.33
13	A	806	CL7	O2D-CGD-CBD	5.52	120.88	111.23
13	A	813	CL7	C2C-C1C-NC	5.52	115.59	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	838	CL7	O2D-CGD-CBD	5.51	120.87	111.23
13	B	813	CL7	C2C-C1C-NC	5.51	115.58	110.13
19	A	853	WVN	C20-C23-C25	-5.50	118.09	126.23
13	B	829	CL7	C3B-C2B-C1B	-5.50	100.69	107.17
13	B	812	CL7	O2A-CGA-O1A	-5.50	109.88	123.63
13	B	812	CL7	O2D-CGD-CBD	5.49	120.83	111.23
13	A	848	CL7	O2D-CGD-CBD	5.49	120.82	111.23
13	B	819	CL7	O2D-CGD-CBD	5.48	120.82	111.23
13	I	102	CL7	O2D-CGD-CBD	5.48	120.81	111.23
13	B	807	CL7	C2C-C1C-NC	5.47	115.54	110.13
13	A	841	CL7	C1D-ND-C4D	-5.47	102.47	106.31
13	A	843	CL7	C2C-C1C-NC	5.47	115.54	110.13
12	A	801	G9R	C1C-C2C-C3C	-5.46	101.24	106.98
13	A	802	CL7	C2D-C1D-ND	5.45	115.98	110.33
13	B	832	CL7	O2D-CGD-CBD	5.45	120.76	111.23
13	A	832	CL7	C2C-C1C-NC	5.45	115.52	110.13
13	A	804	CL7	C3B-C2B-C1B	-5.44	100.76	107.17
13	B	817	CL7	O2D-CGD-CBD	5.43	120.72	111.23
13	A	836	CL7	C2C-C1C-NC	5.43	115.50	110.13
13	B	819	CL7	C2C-C1C-NC	5.42	115.49	110.13
13	A	835	CL7	C1D-ND-C4D	-5.42	102.51	106.31
13	A	803	CL7	O2A-CGA-O1A	-5.42	110.07	123.63
13	B	843	CL7	C3B-C2B-C1B	-5.41	100.79	107.17
13	L	204	CL7	C2D-C1D-ND	5.40	115.93	110.33
13	A	830	CL7	O2A-CGA-O1A	-5.39	110.14	123.63
13	B	837	CL7	O2D-CGD-CBD	5.39	120.65	111.23
13	B	824	CL7	O2D-CGD-CBD	5.39	120.65	111.23
13	L	201	CL7	C3B-C2B-C1B	-5.39	100.82	107.17
13	A	846	CL7	O2D-CGD-CBD	5.38	120.64	111.23
13	A	824	CL7	O2A-CGA-O1A	-5.38	110.16	123.63
13	B	821	CL7	C1D-ND-C4D	-5.38	102.54	106.31
13	A	817	CL7	C1D-ND-C4D	-5.37	102.54	106.31
13	F	202	CL7	O2D-CGD-CBD	5.37	120.62	111.23
13	B	806	CL7	C2D-C1D-ND	5.36	115.89	110.33
13	B	816	CL7	O2D-CGD-CBD	5.35	120.58	111.23
13	B	804	CL7	C3B-C2B-C1B	-5.34	100.87	107.17
13	B	841	CL7	C3B-C2B-C1B	-5.34	100.87	107.17
13	B	814	CL7	C3B-C2B-C1B	-5.34	100.87	107.17
13	A	802	CL7	C1D-ND-C4D	-5.34	102.57	106.31
13	B	810	CL7	O2D-CGD-CBD	5.34	120.56	111.23
13	A	805	CL7	O2D-CGD-CBD	5.33	120.55	111.23
13	J	102	CL7	C1D-ND-C4D	-5.33	102.57	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	838	CL7	O2D-CGD-CBD	5.33	120.55	111.23
13	A	830	CL7	C3B-C2B-C1B	-5.32	100.90	107.17
13	F	201	CL7	C3B-C2B-C1B	-5.32	100.90	107.17
13	A	825	CL7	O2D-CGD-CBD	5.32	120.53	111.23
12	A	801	G9R	C3D-C2D-C1D	-5.32	98.57	105.83
19	F	205	WVN	C20-C23-C25	-5.31	118.37	126.23
13	A	814	CL7	O2D-CGD-CBD	5.31	120.52	111.23
13	B	831	CL7	C1D-ND-C4D	-5.31	102.58	106.31
13	B	821	CL7	C2D-C1D-ND	5.31	115.83	110.33
19	B	848	WVN	C07-C01-C02	-5.31	101.50	109.55
13	A	837	CL7	C2C-C1C-NC	5.31	115.38	110.13
13	A	835	CL7	O2D-CGD-CBD	5.31	120.52	111.23
13	B	837	CL7	C3B-C2B-C1B	-5.30	100.92	107.17
13	A	843	CL7	C3B-C2B-C1B	-5.30	100.93	107.17
13	B	811	CL7	O2D-CGD-CBD	5.29	120.48	111.23
13	A	819	CL7	C2C-C1C-NC	5.29	115.36	110.13
13	B	828	CL7	O2A-CGA-O1A	-5.29	110.40	123.63
13	B	810	CL7	C3B-C2B-C1B	-5.29	100.94	107.17
13	B	840	CL7	C3B-C2B-C1B	-5.29	100.94	107.17
13	L	207	CL7	O2A-CGA-O1A	-5.29	110.40	123.63
13	A	841	CL7	C3B-C2B-C1B	-5.28	100.94	107.17
13	A	811	CL7	O2D-CGD-CBD	5.28	120.46	111.23
13	A	845	CL7	O2D-CGD-CBD	5.27	120.45	111.23
13	A	827	CL7	C1D-ND-C4D	-5.27	102.61	106.31
13	A	841	CL7	C2D-C1D-ND	5.27	115.79	110.33
13	B	808	CL7	O2A-CGA-O1A	-5.27	110.46	123.63
13	B	838	CL7	C3B-C2B-C1B	-5.26	100.97	107.17
13	A	809	CL7	C3B-C2B-C1B	-5.26	100.97	107.17
13	A	825	CL7	C3B-C2B-C1B	-5.26	100.97	107.17
13	L	207	CL7	O2D-CGD-CBD	5.26	120.42	111.23
13	L	207	CL7	C1D-ND-C4D	-5.26	102.62	106.31
13	K	103	CL7	C3B-C2B-C1B	-5.26	100.97	107.17
13	B	803	CL7	C1D-ND-C4D	-5.25	102.62	106.31
13	B	842	CL7	C4D-ND-C1D	-5.25	102.63	106.31
13	A	829	CL7	O2A-CGA-O1A	-5.25	110.50	123.63
13	A	814	CL7	C2D-C1D-ND	5.25	115.77	110.33
19	F	204	WVN	C21-C15-C13	-5.25	118.76	124.48
13	F	202	CL7	C3B-C2B-C1B	-5.25	100.98	107.17
12	A	801	G9R	C2D-C1D-ND	5.24	115.31	110.13
13	B	805	CL7	O2D-CGD-CBD	5.23	120.38	111.23
13	B	819	CL7	C3B-C2B-C1B	-5.23	101.00	107.17
13	B	819	CL7	O2A-CGA-O1A	-5.23	110.55	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	831	CL7	C3B-C2B-C1B	-5.23	101.01	107.17
13	A	835	CL7	O2A-CGA-O1A	-5.23	110.55	123.63
13	B	807	CL7	C2D-C1D-ND	5.23	115.75	110.33
13	A	805	CL7	C2C-C1C-NC	5.23	115.30	110.13
13	A	827	CL7	O2D-CGD-CBD	5.22	120.36	111.23
13	A	814	CL7	C3B-C2B-C1B	-5.22	101.02	107.17
13	F	206	CL7	O2D-CGD-CBD	5.21	120.35	111.23
13	F	206	CL7	C1D-ND-C4D	-5.21	102.65	106.31
13	A	807	CL7	C3B-C2B-C1B	-5.21	101.02	107.17
13	A	817	CL7	C2D-C1D-ND	5.21	115.73	110.33
13	A	829	CL7	C3B-C2B-C1B	-5.21	101.03	107.17
13	B	832	CL7	C3B-C2B-C1B	-5.20	101.04	107.17
13	A	839	CL7	C3B-C2B-C1B	-5.20	101.04	107.17
13	B	821	CL7	C2C-C1C-NC	5.20	115.27	110.13
13	B	846	CL7	O2D-CGD-CBD	5.19	120.31	111.23
13	B	842	CL7	C2C-C1C-NC	5.19	116.60	109.50
13	B	843	CL7	C1D-ND-C4D	-5.19	102.67	106.31
19	M	101	WVN	C40-C37-C34	-5.19	120.00	127.28
13	A	806	CL7	C1D-ND-C4D	-5.18	102.67	106.31
13	A	837	CL7	O2D-CGD-CBD	5.18	120.29	111.23
13	L	204	CL7	C3B-C2B-C1B	-5.17	101.07	107.17
13	L	207	CL7	C2D-C1D-ND	5.17	115.69	110.33
13	A	822	CL7	O2A-CGA-O1A	-5.17	110.70	123.63
19	B	847	WVN	C21-C15-C13	-5.17	118.85	124.48
13	A	810	CL7	C3B-C2B-C1B	-5.16	101.08	107.17
13	B	823	CL7	O2D-CGD-CBD	5.16	120.25	111.23
13	A	842	CL7	C1D-ND-C4D	-5.16	102.69	106.31
13	A	848	CL7	C1D-ND-C4D	-5.16	102.69	106.31
13	K	102	CL7	C1D-ND-C4D	-5.16	102.69	106.31
13	A	828	CL7	C3B-C2B-C1B	-5.16	101.09	107.17
13	A	819	CL7	C1D-ND-C4D	-5.16	102.69	106.31
13	A	838	CL7	O2A-CGA-O1A	-5.15	110.75	123.63
13	A	813	CL7	C2D-C1D-ND	5.15	115.67	110.33
13	A	846	CL7	C3B-C2B-C1B	-5.15	101.10	107.17
13	A	806	CL7	C3B-C2B-C1B	-5.14	101.11	107.17
12	A	801	G9R	O2A-CGA-O1A	-5.14	110.76	123.63
13	L	205	CL7	O2A-CGA-O1A	-5.14	110.76	123.63
13	B	809	CL7	O2D-CGD-CBD	5.14	120.22	111.23
19	J	104	WVN	C10-C06-C13	5.13	117.90	110.44
19	J	101	WVN	C06-C13-C15	-5.13	115.62	122.64
13	A	818	CL7	C1D-ND-C4D	-5.13	102.71	106.31
13	B	803	CL7	C2D-C1D-ND	5.13	115.65	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	805	CL7	C3B-C2B-C1B	-5.13	101.12	107.17
13	A	831	CL7	O2D-CGD-CBD	5.12	120.19	111.23
13	A	840	CL7	C3B-C2B-C1B	-5.12	101.13	107.17
13	B	841	CL7	C1D-ND-C4D	-5.12	102.72	106.31
13	J	103	CL7	C3B-C2B-C1B	-5.12	101.13	107.17
13	B	802	CL7	C1D-ND-C4D	-5.12	102.72	106.31
13	A	843	CL7	O2A-CGA-O1A	-5.12	110.83	123.63
13	A	842	CL7	C2D-C1D-ND	5.11	115.63	110.33
13	A	807	CL7	C2D-C1D-ND	5.11	115.63	110.33
13	B	830	CL7	C3B-C2B-C1B	-5.11	101.14	107.17
13	B	825	CL7	O2A-CGA-O1A	-5.11	110.85	123.63
13	A	818	CL7	O2A-CGA-O1A	-5.11	110.85	123.63
13	A	818	CL7	O2D-CGD-CBD	5.10	120.15	111.23
13	A	805	CL7	C1D-ND-C4D	-5.10	102.73	106.31
13	A	812	CL7	O2A-CGA-O1A	-5.10	110.87	123.63
13	B	846	CL7	C3B-C2B-C1B	-5.09	101.17	107.17
13	A	811	CL7	O2A-CGA-O1A	-5.09	110.91	123.63
13	B	821	CL7	C3B-C2B-C1B	-5.08	101.18	107.17
13	B	816	CL7	C3B-C2B-C1B	-5.08	101.18	107.17
13	B	814	CL7	C2D-C1D-ND	5.08	115.59	110.33
13	B	840	CL7	C1D-ND-C4D	-5.08	102.75	106.31
13	B	825	CL7	C3B-C2B-C1B	-5.07	101.19	107.17
13	A	832	CL7	C3B-C2B-C1B	-5.07	101.19	107.17
13	A	829	CL7	C1D-ND-C4D	-5.07	102.76	106.31
13	A	809	CL7	O2A-CGA-O1A	-5.07	110.95	123.63
13	B	843	CL7	C2C-C1C-NC	5.06	115.13	110.13
13	A	828	CL7	C1D-ND-C4D	-5.05	102.77	106.31
13	A	838	CL7	C3B-C2B-C1B	-5.05	101.22	107.17
13	A	814	CL7	O2A-CGA-O1A	-5.04	111.02	123.63
13	A	836	CL7	C2D-C1D-ND	5.04	115.55	110.33
13	B	834	CL7	O2D-CGD-CBD	5.04	120.04	111.23
13	B	805	CL7	C1D-ND-C4D	-5.04	102.78	106.31
13	A	836	CL7	O2D-CGD-CBD	5.03	120.03	111.23
13	B	814	CL7	O2A-CGA-O1A	-5.03	111.05	123.63
19	A	854	WVN	C20-C23-C25	-5.03	118.79	126.23
13	A	836	CL7	C1D-ND-C4D	-5.03	102.78	106.31
13	B	816	CL7	O2A-CGA-O1A	-5.03	111.05	123.63
13	B	814	CL7	C1D-ND-C4D	-5.02	102.79	106.31
13	B	805	CL7	C2D-C1D-ND	5.02	115.53	110.33
13	K	102	CL7	O2D-CGD-CBD	5.02	120.00	111.23
13	B	834	CL7	C1D-ND-C4D	-5.01	102.80	106.31
19	F	205	WVN	C06-C13-C15	-5.01	115.79	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	848	CL7	C3B-C2B-C1B	-5.01	101.27	107.17
13	B	828	CL7	C1D-ND-C4D	-5.01	102.80	106.31
13	B	837	CL7	O2A-CGA-O1A	-5.01	111.11	123.63
13	A	845	CL7	C1D-ND-C4D	-5.00	102.81	106.31
13	A	802	CL7	C3B-C2B-C1B	-5.00	101.28	107.17
13	A	855	CL7	C1D-ND-C4D	-4.99	102.81	106.31
13	B	819	CL7	C1D-ND-C4D	-4.99	102.81	106.31
13	B	806	CL7	O2A-CGA-O1A	-4.99	111.15	123.63
13	A	809	CL7	C1D-ND-C4D	-4.99	102.81	106.31
13	A	815	CL7	C3B-C2B-C1B	-4.99	101.29	107.17
13	A	813	CL7	C1D-ND-C4D	-4.99	102.81	106.31
13	A	818	CL7	C2D-C1D-ND	4.99	115.50	110.33
13	A	841	CL7	O2D-CGD-CBD	4.99	119.95	111.23
19	F	205	WVN	C30-C28-C25	-4.98	120.29	127.28
13	A	802	CL7	O2D-CGD-CBD	4.98	119.94	111.23
13	A	842	CL7	CMA-C3A-C2A	-4.98	94.74	113.98
13	B	822	CL7	O2A-CGA-O1A	-4.97	111.19	123.63
13	A	814	CL7	C1D-ND-C4D	-4.97	102.82	106.31
13	B	831	CL7	C2D-C1D-ND	4.97	115.48	110.33
13	A	837	CL7	C3B-C2B-C1B	-4.97	101.31	107.17
13	A	825	CL7	C1D-ND-C4D	-4.97	102.83	106.31
13	B	807	CL7	O2A-CGA-O1A	-4.96	111.21	123.63
19	A	854	WVN	C30-C28-C25	-4.96	120.32	127.28
13	B	823	CL7	C1D-ND-C4D	-4.95	102.84	106.31
13	B	813	CL7	C1D-ND-C4D	-4.95	102.84	106.31
13	A	816	CL7	O2D-CGD-CBD	4.95	119.88	111.23
19	A	852	WVN	C21-C15-C13	-4.95	119.08	124.48
13	B	823	CL7	C2D-C1D-ND	4.95	115.46	110.33
13	B	817	CL7	C1D-ND-C4D	-4.95	102.84	106.31
13	A	807	CL7	C1D-ND-C4D	-4.94	102.84	106.31
13	A	824	CL7	O2D-CGD-CBD	4.94	119.87	111.23
13	F	206	CL7	C3B-C2B-C1B	-4.94	101.35	107.17
13	B	807	CL7	C1D-ND-C4D	-4.94	102.85	106.31
13	B	802	CL7	O2A-CGA-O1A	-4.93	111.29	123.63
13	B	825	CL7	C1D-ND-C4D	-4.93	102.85	106.31
13	B	832	CL7	O2A-CGA-O1A	-4.93	111.30	123.63
22	B	845	K3I	C11-C10-C9	-4.93	120.37	127.28
13	K	102	CL7	C3B-C2B-C1B	-4.92	101.36	107.17
13	L	201	CL7	C2D-C1D-ND	4.92	115.43	110.33
19	I	101	WVN	C30-C28-C25	-4.92	120.38	127.28
13	B	809	CL7	C1D-ND-C4D	-4.91	102.87	106.31
13	A	810	CL7	C2D-C1D-ND	4.91	115.42	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	819	CL7	C2D-C1D-ND	4.91	115.42	110.33
13	B	825	CL7	O2D-CGD-CBD	4.90	119.80	111.23
13	A	815	CL7	O2A-CGA-O1A	-4.90	111.36	123.63
13	A	808	CL7	O2D-CGD-CBD	4.90	119.80	111.23
13	B	818	CL7	O2A-CGA-O1A	-4.90	111.36	123.63
13	A	819	CL7	O2A-CGA-O1A	-4.90	111.38	123.63
13	B	831	CL7	O2A-CGA-O1A	-4.90	111.38	123.63
19	F	204	WVN	C39-C40-C37	-4.90	113.50	123.52
13	A	855	CL7	C2D-C1D-ND	4.89	115.40	110.33
13	A	830	CL7	C2D-C1D-ND	4.89	115.39	110.33
19	J	101	WVN	C04-C09-C05	-4.89	120.16	124.83
13	B	837	CL7	C1D-ND-C4D	-4.89	102.88	106.31
13	B	823	CL7	O2A-CGA-O1A	-4.89	111.41	123.63
13	A	824	CL7	C1D-ND-C4D	-4.88	102.89	106.31
13	B	812	CL7	C1D-ND-C4D	-4.88	102.89	106.31
19	B	848	WVN	C08-C01-C02	4.88	116.94	109.55
13	F	201	CL7	C1D-ND-C4D	-4.88	102.89	106.31
13	A	805	CL7	C3B-C2B-C1B	-4.88	101.42	107.17
13	B	806	CL7	C3B-C2B-C1B	-4.88	101.42	107.17
13	B	822	CL7	C3B-C2B-C1B	-4.88	101.42	107.17
13	A	806	CL7	C2D-C1D-ND	4.88	115.38	110.33
13	B	812	CL7	C2D-C1D-ND	4.88	115.38	110.33
13	F	201	CL7	C2D-C1D-ND	4.88	115.38	110.33
13	B	818	CL7	C3B-C2B-C1B	-4.88	101.42	107.17
13	A	828	CL7	C2D-C1D-ND	4.88	115.38	110.33
13	A	810	CL7	C1D-ND-C4D	-4.87	102.89	106.31
13	B	824	CL7	C3B-C2B-C1B	-4.87	101.42	107.17
13	B	803	CL7	O2D-CGD-CBD	4.87	119.74	111.23
13	A	824	CL7	C2D-C1D-ND	4.87	115.37	110.33
13	A	803	CL7	C1D-ND-C4D	-4.87	102.90	106.31
13	B	804	CL7	O2D-CGD-CBD	4.87	119.73	111.23
13	A	827	CL7	C3B-C2B-C1B	-4.86	101.44	107.17
13	F	201	CL7	O2A-CGA-O1A	-4.86	111.46	123.63
13	A	823	CL7	C2D-C1D-ND	4.86	115.37	110.33
13	A	843	CL7	C1D-ND-C4D	-4.86	102.90	106.31
13	B	841	CL7	O2A-CGA-O1A	-4.86	110.84	123.33
13	L	207	CL7	O2A-CGA-CBA	4.85	126.62	111.83
19	A	850	WVN	C02-C11-C19	-4.85	117.04	124.58
13	A	811	CL7	C3B-C2B-C1B	-4.84	101.46	107.17
13	A	841	CL7	O2A-CGA-O1A	-4.84	111.51	123.63
13	A	809	CL7	C2D-C1D-ND	4.84	115.35	110.33
13	A	855	CL7	O2D-CGD-CBD	4.84	119.70	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	808	CL7	C3B-C2B-C1B	-4.84	101.47	107.17
13	A	817	CL7	O2D-CGD-CBD	4.84	119.69	111.23
13	K	103	CL7	C1D-ND-C4D	-4.84	102.92	106.31
13	A	804	CL7	O2A-CGA-O1A	-4.83	111.54	123.63
16	K	104	LMT	C1-O1'-C1'	4.83	121.93	113.68
13	A	825	CL7	C2D-C1D-ND	4.83	115.33	110.33
13	B	813	CL7	C2D-C1D-ND	4.83	115.33	110.33
13	B	828	CL7	C2D-C1D-ND	4.83	115.33	110.33
13	B	833	CL7	C1D-ND-C4D	-4.83	102.92	106.31
13	L	207	CL7	C3B-C2B-C1B	-4.83	101.48	107.17
13	A	840	CL7	O2D-CGD-CBD	4.83	119.67	111.23
19	L	210	WVN	C14-C15-C13	-4.83	116.18	122.70
13	B	843	CL7	C2D-C1D-ND	4.83	115.33	110.33
13	A	822	CL7	C1D-ND-C4D	-4.83	102.92	106.31
13	B	816	CL7	C1D-ND-C4D	-4.83	102.92	106.31
13	B	832	CL7	C1D-ND-C4D	-4.83	102.92	106.31
13	A	817	CL7	C3B-C2B-C1B	-4.82	101.48	107.17
13	A	835	CL7	C2D-C1D-ND	4.82	115.33	110.33
19	L	209	WVN	C21-C15-C13	-4.82	119.22	124.48
13	B	833	CL7	O2A-CGA-O1A	-4.82	110.93	123.33
13	A	818	CL7	C3B-C2B-C1B	-4.82	101.49	107.17
19	L	210	WVN	C20-C23-C25	-4.82	119.11	126.23
13	A	819	CL7	O2D-CGD-CBD	4.82	119.65	111.23
18	A	849	PHO	C4D-CHA-CBD	-4.82	106.14	108.45
19	A	850	WVN	C02-C05-C09	-4.81	115.55	121.47
13	A	827	CL7	C2D-C1D-ND	4.81	115.32	110.33
13	B	840	CL7	O2A-CGA-O1A	-4.81	110.97	123.33
13	A	822	CL7	C2D-C1D-ND	4.81	115.31	110.33
13	A	812	CL7	C1D-ND-C4D	-4.80	102.94	106.31
13	B	834	CL7	C3B-C2B-C1B	-4.80	101.51	107.17
13	A	813	CL7	O2A-CGA-O1A	-4.80	111.62	123.63
19	K	101	WVN	C30-C28-C25	-4.80	120.55	127.28
13	B	810	CL7	O2A-CGA-O1A	-4.80	111.00	123.33
13	L	204	CL7	O2A-CGA-O1A	-4.80	111.63	123.63
13	A	808	CL7	O2A-CGA-O1A	-4.79	111.64	123.63
13	I	102	CL7	C1D-ND-C4D	-4.79	102.95	106.31
13	L	201	CL7	C1D-ND-C4D	-4.79	102.95	106.31
13	J	102	CL7	C2D-C1D-ND	4.79	115.29	110.33
19	L	202	WVN	C02-C11-C19	4.79	132.03	124.58
13	A	806	CL7	O2A-CGA-O1A	-4.79	111.66	123.63
13	B	846	CL7	CMA-C3A-C2A	-4.79	105.25	116.23
13	B	829	CL7	O2A-CGA-O1A	-4.78	111.03	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	837	CL7	C2D-C1D-ND	4.78	115.29	110.33
13	I	102	CL7	O2A-CGA-O1A	-4.78	111.03	123.33
13	B	814	CL7	O2D-CGD-CBD	4.78	119.59	111.23
13	F	206	CL7	O2A-CGA-O1A	-4.78	111.04	123.33
13	A	811	CL7	C1D-ND-C4D	-4.78	102.96	106.31
13	L	201	CL7	O2A-CGA-O1A	-4.78	111.68	123.63
13	B	822	CL7	C2D-C1D-ND	4.78	115.28	110.33
19	A	852	WVN	C40-C37-C34	-4.78	120.58	127.28
13	B	817	CL7	O2A-CGA-O1A	-4.77	111.69	123.63
13	A	842	CL7	O2A-CGA-O1A	-4.77	111.69	123.63
13	B	838	CL7	O2A-CGA-O1A	-4.77	111.06	123.33
13	A	817	CL7	O2A-CGA-O1A	-4.77	111.71	123.63
13	F	206	CL7	C2D-C1D-ND	4.77	115.27	110.33
13	B	817	CL7	C3B-C2B-C1B	-4.77	101.55	107.17
13	A	825	CL7	O2A-CGA-O1A	-4.76	111.71	123.63
13	A	804	CL7	C2D-C1D-ND	4.76	115.27	110.33
19	A	850	WVN	C20-C23-C25	-4.76	119.19	126.23
13	A	823	CL7	C1D-ND-C4D	-4.76	102.97	106.31
19	F	204	WVN	C04-C09-C05	-4.76	120.28	124.83
13	A	845	CL7	O2A-CGA-O1A	-4.76	111.72	123.63
13	B	826	CL7	O2A-CGA-O1A	-4.76	111.72	123.63
13	F	202	CL7	O2A-CGA-O1A	-4.76	111.09	123.33
13	B	812	CL7	C3B-C2B-C1B	-4.76	101.56	107.17
13	B	833	CL7	O2D-CGD-CBD	4.76	119.55	111.23
13	B	808	CL7	C3B-C2B-C1B	-4.75	101.56	107.17
13	A	848	CL7	C2D-C1D-ND	4.75	115.25	110.33
13	B	824	CL7	O2A-CGA-O1A	-4.75	111.11	123.33
13	A	803	CL7	C3B-C2B-C1B	-4.75	101.57	107.17
13	K	102	CL7	C2D-C1D-ND	4.75	115.25	110.33
13	A	828	CL7	O2D-CGD-CBD	4.75	119.53	111.23
13	B	843	CL7	O2A-CGA-O1A	-4.75	111.13	123.33
13	B	818	CL7	C1D-ND-C4D	-4.74	102.98	106.31
13	B	809	CL7	C3B-C2B-C1B	-4.74	101.58	107.17
13	A	812	CL7	C2D-C1D-ND	4.74	115.24	110.33
13	B	812	CL7	O2A-CGA-CBA	4.74	126.28	111.83
19	B	848	WVN	C11-C19-C22	-4.73	116.14	126.32
13	B	834	CL7	O2A-CGA-O1A	-4.73	111.16	123.33
13	A	816	CL7	C1D-ND-C4D	-4.73	102.99	106.31
13	B	830	CL7	C1D-ND-C4D	-4.73	102.99	106.31
13	A	842	CL7	C3B-C2B-C1B	-4.73	101.59	107.17
13	A	836	CL7	C3B-C2B-C1B	-4.73	101.60	107.17
13	B	828	CL7	C3B-C2B-C1B	-4.73	101.60	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	822	CL7	C3B-C2B-C1B	-4.72	101.60	107.17
13	B	813	CL7	C3B-C2B-C1B	-4.72	101.60	107.17
13	A	846	CL7	C2D-C1D-ND	4.72	115.22	110.33
13	B	804	CL7	O2A-CGA-O1A	-4.72	111.83	123.63
13	A	838	CL7	C1D-ND-C4D	-4.72	103.00	106.31
12	A	801	G9R	O2D-CGD-CBD	4.71	119.47	111.23
13	A	845	CL7	C2D-C1D-ND	4.71	115.21	110.33
13	A	846	CL7	C1D-ND-C4D	-4.71	103.01	106.31
13	A	816	CL7	C3B-C2B-C1B	-4.71	101.62	107.17
13	B	817	CL7	C2D-C1D-ND	4.71	115.21	110.33
19	I	101	WVN	C02-C05-C09	-4.71	115.68	121.47
13	J	103	CL7	O2A-CGA-O1A	-4.70	111.25	123.33
13	I	102	CL7	C3B-C2B-C1B	-4.70	101.63	107.17
13	B	825	CL7	C2D-C1D-ND	4.70	115.20	110.33
13	B	807	CL7	O2D-CGD-CBD	4.70	119.44	111.23
19	I	101	WVN	C20-C23-C25	-4.70	119.29	126.23
13	B	830	CL7	O2A-CGA-O1A	-4.69	111.26	123.33
19	A	850	WVN	C21-C15-C13	-4.69	119.36	124.48
19	A	853	WVN	C39-C36-C32	-4.69	120.70	127.28
13	A	837	CL7	O2A-CGA-O1A	-4.69	111.91	123.63
13	A	831	CL7	O2A-CGA-O1A	-4.68	111.28	123.33
13	A	805	CL7	C2D-C1D-ND	4.68	115.18	110.33
13	F	201	CL7	O2D-CGD-CBD	4.68	119.42	111.23
13	B	811	CL7	C3B-C2B-C1B	-4.67	101.66	107.17
13	A	829	CL7	C2D-C1D-ND	4.67	115.17	110.33
13	A	845	CL7	C3B-C2B-C1B	-4.66	101.67	107.17
13	F	202	CL7	C1D-ND-C4D	-4.66	103.04	106.31
13	A	835	CL7	C3B-C2B-C1B	-4.66	101.67	107.17
13	B	810	CL7	C2D-C1D-ND	4.66	115.16	110.33
13	B	832	CL7	C2D-C1D-ND	4.66	115.16	110.33
19	L	210	WVN	C02-C05-C09	-4.64	115.76	121.47
13	A	842	CL7	O2D-CGD-CBD	4.64	119.34	111.23
13	A	843	CL7	C2D-C1D-ND	4.64	115.14	110.33
13	A	830	CL7	C1D-ND-C4D	-4.63	103.06	106.31
13	A	840	CL7	C1D-ND-C4D	-4.63	103.07	106.31
13	L	205	CL7	C3B-C2B-C1B	-4.63	101.72	107.17
13	A	827	CL7	O2A-CGA-CBA	4.62	125.94	111.83
22	B	845	K3I	C21-C22-C23	-4.62	120.80	127.28
13	A	816	CL7	C2D-C1D-ND	4.62	115.11	110.33
13	I	102	CL7	C2D-C1D-ND	4.61	115.11	110.33
19	B	847	WVN	C02-C05-C09	-4.61	115.80	121.47
13	A	840	CL7	O2A-CGA-O1A	-4.60	112.12	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	823	CL7	O2D-CGD-CBD	4.60	119.27	111.23
19	F	204	WVN	C02-C11-C19	-4.59	117.43	124.58
13	B	816	CL7	C2D-C1D-ND	4.59	115.09	110.33
13	A	803	CL7	C2D-C1D-ND	4.59	115.09	110.33
13	A	838	CL7	C2D-C1D-ND	4.59	115.09	110.33
20	L	203	LMG	O7-C10-C11	4.58	121.39	111.48
13	A	815	CL7	C2D-C1D-ND	4.58	115.08	110.33
12	A	801	G9R	C1D-ND-C4D	-4.58	103.10	106.31
13	B	803	CL7	C3B-C2B-C1B	-4.58	101.77	107.17
13	B	841	CL7	C3C-C4C-NC	4.58	114.98	110.20
13	A	812	CL7	O2D-CGD-CBD	4.57	119.23	111.23
13	A	805	CL7	O2A-CGA-O1A	-4.57	112.19	123.63
13	A	802	CL7	O2A-CGA-O1A	-4.57	112.19	123.63
13	B	840	CL7	O2D-CGD-CBD	4.57	119.21	111.23
13	A	809	CL7	O2A-C1-C2	4.56	125.66	108.11
13	A	812	CL7	C3B-C2B-C1B	-4.56	101.80	107.17
13	A	823	CL7	O2A-CGA-O1A	-4.56	112.23	123.63
16	K	104	LMT	C1'-O5'-C5'	4.55	122.61	113.72
13	B	821	CL7	O2A-CGA-O1A	-4.55	112.25	123.63
19	I	101	WVN	C14-C15-C13	-4.55	116.56	122.70
19	J	104	WVN	C14-C15-C13	-4.54	116.56	122.70
13	A	816	CL7	O2A-CGA-O1A	-4.54	112.27	123.63
13	A	811	CL7	C2D-C1D-ND	4.54	115.03	110.33
13	A	828	CL7	O2A-CGA-O1A	-4.54	112.28	123.63
13	B	810	CL7	C1D-ND-C4D	-4.53	103.14	106.31
13	B	833	CL7	C3B-C2B-C1B	-4.53	101.83	107.17
19	M	101	WVN	C21-C15-C13	-4.53	119.55	124.48
19	A	852	WVN	C39-C36-C32	-4.52	120.93	127.28
19	F	204	WVN	C20-C23-C25	-4.52	119.54	126.23
13	B	834	CL7	C2D-C1D-ND	4.52	115.01	110.33
13	J	103	CL7	C1D-ND-C4D	-4.52	103.14	106.31
19	J	104	WVN	C30-C28-C25	-4.52	120.94	127.28
13	A	831	CL7	C1D-ND-C4D	-4.51	103.15	106.31
13	A	846	CL7	O2A-CGA-O1A	-4.50	111.75	123.33
13	A	804	CL7	C1D-ND-C4D	-4.50	103.15	106.31
13	B	846	CL7	C1D-ND-C4D	-4.50	103.15	106.31
13	B	804	CL7	C2D-C1D-ND	4.50	114.99	110.33
13	A	808	CL7	C1D-ND-C4D	-4.49	103.16	106.31
13	A	839	CL7	C2D-C1D-ND	4.49	114.98	110.33
13	J	102	CL7	O2A-CGA-O1A	-4.49	112.40	123.63
19	M	101	WVN	C40-C39-C36	-4.48	114.35	123.52
13	B	815	CL7	O2A-CGA-CBA	4.48	125.50	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	803	CL7	O2A-CGA-CBA	4.48	125.49	111.83
13	B	809	CL7	C2D-C1D-ND	4.48	114.97	110.33
13	A	808	CL7	C2D-C1D-ND	4.48	114.97	110.33
19	A	854	WVN	C02-C05-C09	-4.46	115.98	121.47
13	A	836	CL7	O2A-CGA-O1A	-4.46	112.48	123.63
13	B	803	CL7	O2A-CGA-O1A	-4.45	112.49	123.63
13	A	807	CL7	O2A-CGA-O1A	-4.45	112.50	123.63
13	J	103	CL7	C2D-C1D-ND	4.44	114.93	110.33
19	A	850	WVN	C23-C20-C13	-4.44	115.13	127.00
13	B	819	CL7	O2A-C1-C2	4.44	125.19	108.11
13	F	202	CL7	C2D-C1D-ND	4.44	114.93	110.33
13	B	805	CL7	O2A-CGA-O1A	-4.44	112.53	123.63
13	A	830	CL7	O2A-CGA-CBA	4.43	125.36	111.83
13	B	838	CL7	C1D-ND-C4D	-4.43	103.20	106.31
13	A	829	CL7	O2A-CGA-CBA	4.43	125.33	111.83
19	B	847	WVN	C11-C19-C22	-4.42	116.81	126.32
13	B	819	CL7	C2D-C1D-ND	4.42	114.91	110.33
13	A	824	CL7	O2A-CGA-CBA	4.40	125.26	111.83
13	B	830	CL7	C2D-C1D-ND	4.39	114.88	110.33
19	J	104	WVN	C07-C01-C02	-4.39	102.89	109.55
13	B	823	CL7	C3B-C2B-C1B	-4.39	102.00	107.17
19	A	851	WVN	C20-C13-C15	-4.39	111.45	121.56
13	B	808	CL7	C2D-C1D-ND	4.39	114.88	110.33
13	B	843	CL7	O2D-CGD-CBD	4.38	118.89	111.23
19	F	205	WVN	C21-C15-C13	-4.38	119.71	124.48
19	A	853	WVN	C30-C28-C25	-4.38	121.14	127.28
13	B	833	CL7	C2D-C1D-ND	4.37	114.86	110.33
13	B	821	CL7	O2D-CGD-CBD	4.37	118.87	111.23
22	B	845	K3I	C18-C5-C6	-4.36	119.72	124.48
13	A	855	CL7	C3B-C2B-C1B	-4.36	102.03	107.17
13	B	812	CL7	O2A-C1-C2	4.36	124.89	108.11
13	B	811	CL7	C2D-C1D-ND	4.35	114.84	110.33
19	A	853	WVN	C02-C11-C19	-4.35	117.81	124.58
13	A	832	CL7	C2D-C1D-ND	4.35	114.84	110.33
13	A	812	CL7	O2A-CGA-CBA	4.35	125.09	111.83
13	A	813	CL7	C3B-C2B-C1B	-4.33	102.06	107.17
13	B	819	CL7	O2A-CGA-CBA	4.33	125.04	111.83
13	A	831	CL7	C2D-C1D-ND	4.32	114.81	110.33
13	A	840	CL7	C2D-C1D-ND	4.31	114.79	110.33
13	A	832	CL7	C1-O2A-CGA	4.31	127.08	116.65
13	B	811	CL7	C1D-ND-C4D	-4.29	103.30	106.31
13	B	846	CL7	C1C-C2C-C3C	-4.28	100.62	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	846	CL7	C2D-C1D-ND	4.27	114.76	110.33
13	B	824	CL7	C1D-ND-C4D	-4.27	103.31	106.31
19	L	202	WVN	C11-C19-C22	-4.27	117.14	126.32
13	A	819	CL7	C3B-C2B-C1B	-4.27	102.14	107.17
19	F	205	WVN	C14-C15-C13	-4.27	116.94	122.70
12	A	801	G9R	C4A-NA-C1A	4.27	108.62	106.68
13	A	824	CL7	C3B-C2B-C1B	-4.26	102.14	107.17
13	K	103	CL7	C2D-C1D-ND	4.26	114.74	110.33
16	A	833	LMT	C1-O1'-C1'	4.26	120.95	113.68
13	B	815	CL7	C2D-C1D-ND	4.25	114.74	110.33
19	L	202	WVN	C08-C01-C02	4.24	115.96	109.55
13	A	838	CL7	O2A-CGA-CBA	4.23	124.75	111.83
13	B	840	CL7	C2D-C1D-ND	4.23	114.72	110.33
22	B	845	K3I	C41-C33-C32	-4.23	119.86	124.48
13	A	815	CL7	C1D-ND-C4D	-4.21	103.36	106.31
13	B	832	CL7	C1-C2-C3	-4.21	119.95	126.76
13	A	805	CL7	O2A-C1-C2	4.21	124.31	108.11
13	A	822	CL7	O2A-CGA-CBA	4.21	124.67	111.83
19	M	101	WVN	C30-C28-C25	-4.20	121.39	127.28
13	A	831	CL7	C3B-C2B-C1B	-4.19	102.23	107.17
13	A	839	CL7	C1D-ND-C4D	-4.19	103.37	106.31
13	A	818	CL7	O2A-CGA-CBA	4.18	124.59	111.83
19	A	851	WVN	C11-C19-C22	-4.18	117.34	126.32
19	A	852	WVN	C11-C19-C22	-4.17	117.36	126.32
16	K	104	LMT	O5'-C1'-O1'	-4.16	100.20	110.04
13	A	841	CL7	O2A-C1-C2	4.16	124.12	108.11
13	B	838	CL7	C2D-C1D-ND	4.16	114.64	110.33
13	A	823	CL7	O2A-C1-C2	4.15	124.08	108.11
14	A	820	LHG	O7-C7-C8	4.14	120.44	111.48
13	B	828	CL7	O2A-CGA-CBA	4.13	124.43	111.83
13	A	823	CL7	CMA-C3A-C2A	-4.11	98.10	113.98
13	B	808	CL7	O2A-CGA-CBA	4.09	124.31	111.83
13	L	205	CL7	C1C-C2C-C3C	-4.09	100.90	106.97
13	A	804	CL7	O2A-CGA-CBA	4.09	124.30	111.83
13	A	841	CL7	C1-C2-C3	-4.09	119.50	126.20
13	A	808	CL7	O2A-C1-C2	4.08	123.82	108.11
13	J	102	CL7	C1C-C2C-C3C	-4.08	100.92	106.97
13	A	828	CL7	CMA-C3A-C2A	-4.08	98.20	113.98
22	B	845	K3I	C15-C14-C13	-4.07	121.57	127.28
13	B	826	CL7	C3B-C2B-C1B	-4.07	102.38	107.17
13	B	824	CL7	C1C-C2C-C3C	-4.07	100.94	106.97
13	F	201	CL7	O2A-CGA-CBA	4.06	124.23	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	807	CL7	O2A-CGA-CBA	4.06	124.22	111.83
19	J	104	WVN	C11-C19-C22	-4.06	117.59	126.32
13	B	837	CL7	O2A-CGA-CBA	4.05	124.18	111.83
19	A	854	WVN	C21-C15-C13	-4.05	120.07	124.48
13	A	828	CL7	O2A-C1-C2	4.04	123.65	108.11
13	A	837	CL7	O2A-CGA-CBA	4.04	124.14	111.83
13	A	823	CL7	C1-O2A-CGA	4.03	126.40	116.65
19	M	101	WVN	C01-C02-C11	-4.03	108.20	112.83
13	A	815	CL7	O2D-CGD-CBD	4.03	118.27	111.23
13	B	818	CL7	C2D-C1D-ND	4.02	114.50	110.33
19	K	101	WVN	C14-C15-C13	-4.02	117.27	122.70
13	B	822	CL7	C1D-ND-C4D	-4.02	103.49	106.31
13	A	841	CL7	O2A-CGA-CBA	4.02	124.08	111.83
13	B	832	CL7	O2A-CGA-CBA	4.01	124.07	111.83
13	A	818	CL7	C1C-C2C-C3C	-4.01	101.02	106.97
13	B	808	CL7	C1D-ND-C4D	-4.01	103.50	106.31
13	B	824	CL7	C2D-C1D-ND	4.00	114.48	110.33
16	A	833	LMT	C4B-C3B-C2B	4.00	117.86	110.83
19	L	209	WVN	C04-C09-C05	-4.00	121.01	124.83
13	A	832	CL7	O2D-CGD-O1D	-4.00	116.07	123.85
13	A	809	CL7	O2A-CGA-CBA	4.00	124.02	111.83
13	A	838	CL7	O2A-C1-C2	3.99	123.48	108.11
13	B	831	CL7	O2A-CGA-CBA	3.98	123.98	111.83
19	A	854	WVN	C23-C20-C13	-3.98	116.37	127.00
13	J	102	CL7	CMB-C2B-C1B	3.97	131.47	125.42
13	A	808	CL7	O2A-CGA-CBA	3.96	123.92	111.83
19	L	202	WVN	C39-C36-C32	-3.96	121.72	127.28
13	A	823	CL7	C1-C2-C3	-3.96	119.71	126.20
13	B	816	CL7	O2A-CGA-CBA	3.96	123.89	111.83
13	A	811	CL7	O2A-CGA-CBA	3.95	123.89	111.83
13	A	814	CL7	O2A-CGA-CBA	3.95	123.89	111.83
13	A	845	CL7	C1C-C2C-C3C	-3.95	101.11	106.97
13	B	832	CL7	O2A-C1-C2	3.95	123.32	108.11
12	A	801	G9R	C3B-C2B-C1B	-3.95	102.51	107.17
13	L	205	CL7	O2A-CGA-CBA	3.95	123.88	111.83
13	L	201	CL7	C1C-C2C-C3C	-3.95	101.12	106.97
13	A	835	CL7	O2A-CGA-CBA	3.94	123.86	111.83
13	A	845	CL7	O2A-CGA-CBA	3.94	123.84	111.83
13	B	822	CL7	C3C-C4C-NC	3.94	114.31	110.20
13	L	207	CL7	C1C-C2C-C3C	-3.94	101.13	106.97
13	B	804	CL7	O2A-C1-C2	3.93	123.25	108.11
13	B	825	CL7	C1-C2-C3	-3.93	119.76	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	826	CL7	O2A-CGA-CBA	3.93	123.82	111.83
13	B	814	CL7	O2A-CGA-CBA	3.93	123.81	111.83
13	A	813	CL7	C1-C2-C3	-3.92	120.42	126.76
13	A	802	CL7	C1C-C2C-C3C	-3.92	101.16	106.97
13	B	817	CL7	C1C-C2C-C3C	-3.92	101.16	106.97
13	B	802	CL7	O2A-C1-C2	3.91	123.17	108.11
13	A	829	CL7	C1C-C2C-C3C	-3.91	101.17	106.97
13	B	823	CL7	C1C-C2C-C3C	-3.91	101.17	106.97
19	I	101	WVN	C23-C20-C13	-3.91	116.56	127.00
13	A	843	CL7	O2A-CGA-CBA	3.90	123.72	111.83
13	B	819	CL7	C2B-C1B-NB	3.90	114.37	110.33
19	M	101	WVN	C28-C30-C33	-3.90	111.91	123.20
16	F	203	LMT	C2'-C3'-C4'	3.89	118.51	109.68
19	L	210	WVN	C21-C15-C14	3.89	121.89	113.60
19	A	851	WVN	C20-C23-C25	-3.88	120.50	126.23
13	B	830	CL7	C1C-C2C-C3C	-3.88	101.22	106.97
13	B	804	CL7	C1C-C2C-C3C	-3.88	101.22	106.97
19	A	854	WVN	C29-C26-C22	-3.87	121.85	127.28
13	A	831	CL7	C1C-C2C-C3C	-3.87	101.23	106.97
19	A	852	WVN	C10-C06-C13	3.87	116.06	110.44
13	B	821	CL7	C3C-C4C-NC	3.87	114.23	110.20
13	B	831	CL7	C1C-C2C-C3C	-3.86	101.24	106.97
13	B	818	CL7	C1C-C2C-C3C	-3.86	101.24	106.97
13	A	824	CL7	O2A-C1-C2	3.86	122.97	108.11
19	K	101	WVN	C29-C26-C22	-3.86	121.87	127.28
13	A	817	CL7	C1-O2A-CGA	3.85	125.98	116.65
13	A	824	CL7	C1C-C2C-C3C	-3.85	101.26	106.97
13	J	102	CL7	O2D-CGD-O1D	-3.85	116.36	123.85
12	A	801	G9R	O2A-CGA-CBA	3.85	123.57	111.83
13	A	813	CL7	O2A-CGA-CBA	3.85	123.57	111.83
13	A	804	CL7	C2B-C1B-NB	3.84	114.31	110.33
13	B	803	CL7	C3C-C4C-NC	3.84	114.21	110.20
13	B	840	CL7	C3D-C4D-ND	3.84	115.56	110.20
13	A	836	CL7	C3C-C4C-NC	3.84	114.21	110.20
13	B	808	CL7	C1C-C2C-C3C	-3.84	101.28	106.97
13	B	822	CL7	OBD-CAD-C3D	-3.84	119.45	128.42
13	B	812	CL7	C1C-C2C-C3C	-3.83	101.29	106.97
13	B	825	CL7	O2A-CGA-CBA	3.83	123.52	111.83
13	B	829	CL7	C2B-C1B-NB	3.83	114.30	110.33
13	A	822	CL7	O2D-CGD-CBD	3.83	117.92	111.23
13	B	805	CL7	C1C-C2C-C3C	-3.83	101.29	106.97
13	B	818	CL7	O2A-C1-C2	3.83	122.83	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	832	CL7	C1D-ND-C4D	-3.82	103.63	106.31
13	B	834	CL7	C1C-C2C-C3C	-3.82	101.30	106.97
13	B	802	CL7	O2A-CGA-CBA	3.82	123.48	111.83
19	B	848	WVN	C39-C36-C32	-3.82	121.92	127.28
13	A	814	CL7	O2A-C1-C2	3.82	122.79	108.11
13	A	806	CL7	O2A-CGA-CBA	3.81	123.46	111.83
13	J	102	CL7	C1-C2-C3	-3.81	119.95	126.20
13	B	843	CL7	C2B-C1B-NB	3.81	114.27	110.33
19	A	852	WVN	C20-C23-C25	-3.80	120.61	126.23
13	A	806	CL7	C1C-C2C-C3C	-3.80	101.34	106.97
13	B	819	CL7	C1C-C2C-C3C	-3.80	101.34	106.97
13	B	814	CL7	C1C-C2C-C3C	-3.80	101.34	106.97
19	K	101	WVN	C39-C40-C37	-3.79	115.77	123.52
13	A	807	CL7	C1C-C2C-C3C	-3.79	101.35	106.97
13	B	829	CL7	C1D-ND-C4D	-3.79	103.66	106.31
19	K	101	WVN	C08-C01-C02	-3.79	103.81	109.55
13	A	840	CL7	C2B-C1B-NB	3.77	114.24	110.33
13	J	103	CL7	C1C-C2C-C3C	-3.77	101.38	106.97
19	J	104	WVN	C21-C15-C13	-3.77	120.37	124.48
13	B	822	CL7	C1C-C2C-C3C	-3.77	101.38	106.97
19	J	104	WVN	C20-C23-C25	-3.77	120.66	126.23
13	A	808	CL7	C1C-C2C-C3C	-3.77	101.38	106.97
19	K	101	WVN	C04-C09-C05	-3.77	121.23	124.83
13	B	815	CL7	C1C-C2C-C3C	-3.76	101.39	106.97
13	K	103	CL7	C1C-C2C-C3C	-3.76	101.40	106.97
13	A	839	CL7	C3C-C4C-NC	3.75	114.12	110.20
13	B	815	CL7	C1D-ND-C4D	-3.75	103.68	106.31
13	B	802	CL7	C1C-C2C-C3C	-3.75	101.40	106.97
13	A	813	CL7	O2A-C1-C2	3.75	122.54	108.11
13	B	816	CL7	C1C-C2C-C3C	-3.75	101.41	106.97
13	B	831	CL7	C1-C2-C3	-3.75	120.70	126.76
13	A	832	CL7	O2A-CGA-O1A	-3.74	114.27	123.63
13	I	102	CL7	C1C-C2C-C3C	-3.74	101.42	106.97
13	A	823	CL7	C2B-C1B-NB	3.74	114.20	110.33
13	B	833	CL7	C1C-C2C-C3C	-3.74	101.42	106.97
13	J	102	CL7	C3C-C4C-NC	3.74	114.10	110.20
18	B	801	PHO	C2B-C1B-NB	-3.74	106.73	109.43
13	A	828	CL7	C1C-C2C-C3C	-3.73	101.43	106.97
19	J	104	WVN	C21-C15-C14	3.73	121.56	113.60
13	B	825	CL7	C1C-C2C-C3C	-3.73	101.44	106.97
13	A	842	CL7	C1C-C2C-C3C	-3.73	101.44	106.97
13	A	830	CL7	C1C-C2C-C3C	-3.73	101.44	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	F	202	CL7	C1C-C2C-C3C	-3.73	101.44	106.97
13	B	811	CL7	C1C-C2C-C3C	-3.73	101.44	106.97
13	B	828	CL7	C1C-C2C-C3C	-3.73	101.44	106.97
13	A	835	CL7	C1C-C2C-C3C	-3.72	101.45	106.97
13	B	846	CL7	O2D-CGD-O1D	-3.72	116.60	123.85
13	B	840	CL7	C1C-C2C-C3C	-3.72	101.45	106.97
13	A	812	CL7	C1C-C2C-C3C	-3.72	101.45	106.97
19	K	101	WVN	C39-C36-C32	-3.72	122.06	127.28
13	B	804	CL7	C1D-ND-C4D	-3.72	103.70	106.31
13	F	201	CL7	C3C-C4C-NC	3.72	114.08	110.20
13	A	809	CL7	C1C-C2C-C3C	-3.71	101.46	106.97
19	B	847	WVN	C10-C06-C13	3.71	115.83	110.44
13	A	825	CL7	C1C-C2C-C3C	-3.71	101.46	106.97
13	A	808	CL7	C3C-C4C-NC	3.71	114.07	110.20
19	I	101	WVN	C01-C02-C11	-3.71	108.56	112.83
19	A	852	WVN	C28-C30-C33	-3.70	112.47	123.20
13	B	807	CL7	C3C-C4C-NC	3.70	114.06	110.20
13	A	802	CL7	C3C-C4C-NC	3.70	114.06	110.20
13	B	822	CL7	O2A-CGA-CBA	3.70	123.12	111.83
13	A	816	CL7	C1C-C2C-C3C	-3.70	101.48	106.97
19	B	847	WVN	C29-C26-C22	-3.70	122.09	127.28
13	F	201	CL7	C1C-C2C-C3C	-3.70	101.49	106.97
13	B	807	CL7	C1-C2-C3	-3.69	120.79	126.76
13	A	827	CL7	C1C-C2C-C3C	-3.69	101.50	106.97
13	B	802	CL7	C3C-C4C-NC	3.69	114.05	110.20
13	A	848	CL7	C1C-C2C-C3C	-3.69	101.50	106.97
13	B	829	CL7	C2D-C1D-ND	3.69	114.15	110.33
13	B	828	CL7	O2A-C1-C2	3.68	122.29	108.11
13	F	206	CL7	C2B-C1B-NB	3.68	114.15	110.33
13	B	817	CL7	O2A-CGA-CBA	3.68	123.07	111.83
13	F	206	CL7	C1C-C2C-C3C	-3.68	101.51	106.97
13	K	102	CL7	C1C-C2C-C3C	-3.68	101.51	106.97
13	B	818	CL7	O2A-CGA-CBA	3.68	123.06	111.83
13	B	829	CL7	C1C-C2C-C3C	-3.68	101.52	106.97
19	B	847	WVN	C01-C02-C11	-3.68	108.60	112.83
13	A	838	CL7	C3C-C4C-NC	3.67	114.03	110.20
13	A	838	CL7	C1C-C2C-C3C	-3.67	101.52	106.97
13	A	832	CL7	C1C-C2C-C3C	-3.67	101.52	106.97
13	J	102	CL7	O2A-CGA-CBA	3.67	123.03	111.83
13	B	809	CL7	C1C-C2C-C3C	-3.67	101.53	106.97
13	A	817	CL7	C3C-C4C-NC	3.67	114.03	110.20
13	A	822	CL7	O2A-C1-C2	3.66	122.20	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	811	CL7	C1C-C2C-C3C	-3.66	101.54	106.97
13	B	807	CL7	C3B-C2B-C1B	-3.66	102.86	107.17
18	A	849	PHO	C2B-C1B-NB	-3.66	106.78	109.43
13	A	804	CL7	C1C-C2C-C3C	-3.66	101.55	106.97
13	L	204	CL7	C1C-C2C-C3C	-3.66	101.55	106.97
13	B	838	CL7	C1C-C2C-C3C	-3.66	101.55	106.97
13	B	826	CL7	C1C-C2C-C3C	-3.65	101.55	106.97
20	B	827	LMG	O7-C10-C11	3.65	119.38	111.48
13	J	102	CL7	O2A-C1-C2	3.65	122.15	108.11
13	A	806	CL7	O2A-C1-C2	3.64	122.14	108.11
13	A	843	CL7	C1C-C2C-C3C	-3.64	101.56	106.97
13	F	202	CL7	C2B-C1B-NB	3.64	114.10	110.33
13	B	826	CL7	C3C-C4C-NC	3.64	114.00	110.20
13	A	810	CL7	C1C-C2C-C3C	-3.64	101.57	106.97
13	A	838	CL7	C2B-C1B-NB	3.63	114.09	110.33
19	A	854	WVN	C02-C11-C19	-3.63	118.93	124.58
13	A	840	CL7	C1C-C2C-C3C	-3.63	101.59	106.97
13	B	804	CL7	C3C-C4C-NC	3.63	113.99	110.20
13	B	821	CL7	CMC-C2C-C1C	3.63	131.12	124.73
13	B	828	CL7	C1-C2-C3	-3.62	120.26	126.20
13	A	841	CL7	C3C-C4C-NC	3.62	113.98	110.20
13	A	841	CL7	C1C-C2C-C3C	-3.62	101.60	106.97
13	A	843	CL7	C1-C2-C3	-3.62	120.91	126.76
13	B	837	CL7	C1C-C2C-C3C	-3.62	101.61	106.97
13	A	823	CL7	O2A-CGA-CBA	3.61	122.85	111.83
13	B	806	CL7	C1C-C2C-C3C	-3.61	101.61	106.97
13	L	205	CL7	O2A-C1-C2	3.61	122.00	108.11
13	A	828	CL7	C2B-C1B-NB	3.61	114.07	110.33
13	A	814	CL7	C1C-C2C-C3C	-3.61	101.62	106.97
20	L	203	LMG	C4-C3-C2	3.60	117.15	110.83
19	B	848	WVN	C21-C15-C13	-3.60	120.56	124.48
13	B	804	CL7	O2A-CGA-CBA	3.60	122.81	111.83
13	A	815	CL7	C1C-C2C-C3C	-3.60	101.63	106.97
13	J	103	CL7	C2B-C1B-NB	3.59	114.05	110.33
13	A	803	CL7	C1C-C2C-C3C	-3.59	101.64	106.97
12	A	801	G9R	C1-C2-C3	-3.59	120.32	126.20
13	A	823	CL7	C1C-C2C-C3C	-3.59	101.65	106.97
13	B	810	CL7	C1C-C2C-C3C	-3.59	101.65	106.97
13	B	806	CL7	O2A-CGA-CBA	3.58	122.77	111.83
13	B	832	CL7	C2B-C1B-NB	3.58	114.04	110.33
19	A	854	WVN	C21-C15-C14	3.58	121.24	113.60
13	A	828	CL7	C1-C2-C3	-3.58	120.33	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	I	101	WVN	C21-C15-C13	-3.58	120.57	124.48
13	A	842	CL7	O2A-CGA-CBA	3.58	122.76	111.83
13	A	845	CL7	CMA-C3A-C2A	-3.58	100.14	113.98
13	B	819	CL7	C3D-C4D-ND	3.58	115.19	110.20
13	A	805	CL7	C2B-C1B-NB	3.58	114.04	110.33
13	A	817	CL7	C1C-C2C-C3C	-3.58	101.66	106.97
19	F	204	WVN	C20-C13-C15	-3.58	113.32	121.56
19	F	205	WVN	C29-C26-C22	-3.58	122.26	127.28
13	A	813	CL7	C1C-C2C-C3C	-3.57	101.67	106.97
19	I	101	WVN	C39-C40-C37	-3.57	116.21	123.52
13	I	102	CL7	C2B-C1B-NB	3.57	114.03	110.33
13	K	102	CL7	CAA-C2A-C3A	-3.57	108.05	116.23
13	B	823	CL7	O2A-CGA-CBA	3.57	122.71	111.83
13	B	831	CL7	O2A-C1-C2	3.56	121.82	108.11
13	B	814	CL7	C3C-C4C-NC	3.56	113.92	110.20
19	J	101	WVN	C26-C29-C31	-3.56	112.88	123.20
13	A	839	CL7	O2A-C1-C2	3.56	121.79	108.11
13	A	836	CL7	O2A-CGA-CBA	3.56	122.68	111.83
13	B	810	CL7	C3C-C4C-NC	3.56	113.91	110.20
13	A	822	CL7	C2B-C1B-NB	3.55	114.01	110.33
13	L	201	CL7	CMA-C3A-C2A	-3.55	100.24	113.98
19	A	851	WVN	C40-C37-C34	-3.55	122.30	127.28
13	A	803	CL7	C2B-C1B-NB	3.54	114.00	110.33
13	A	830	CL7	O2A-C1-C2	3.54	121.75	108.11
13	A	829	CL7	C1-C2-C3	-3.54	121.03	126.76
13	K	103	CL7	CAA-C2A-C3A	-3.54	108.11	116.23
14	L	208	LHG	O7-C7-C8	3.54	119.14	111.48
13	B	837	CL7	C2B-C1B-NB	3.54	113.99	110.33
13	A	843	CL7	O2A-C1-C2	3.54	121.72	108.11
13	A	802	CL7	O2A-CGA-CBA	3.53	122.61	111.83
13	A	819	CL7	C1C-C2C-C3C	-3.53	101.73	106.97
19	B	848	WVN	C40-C37-C34	-3.53	122.33	127.28
19	L	202	WVN	C04-C09-C05	-3.53	121.46	124.83
13	A	822	CL7	C1C-C2C-C3C	-3.52	101.74	106.97
13	A	804	CL7	C3C-C4C-NC	3.52	113.88	110.20
13	L	207	CL7	O2A-C1-C2	3.52	121.66	108.11
13	B	841	CL7	C2B-C1B-NB	3.52	113.98	110.33
13	B	822	CL7	C2B-C1B-NB	3.52	113.98	110.33
13	A	846	CL7	C2B-C1B-NB	3.52	113.98	110.33
13	A	805	CL7	O2A-CGA-CBA	3.51	122.55	111.83
13	B	840	CL7	C2B-C1B-NB	3.51	113.97	110.33
13	A	837	CL7	C2B-C1B-NB	3.51	113.97	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	825	CL7	C2B-C1B-NB	3.51	113.97	110.33
13	A	840	CL7	O2A-CGA-CBA	3.51	122.53	111.83
22	B	845	K3I	C31-C29-C28	-3.51	121.05	126.23
13	B	810	CL7	C2B-C1B-NB	3.50	113.95	110.33
13	B	834	CL7	C2B-C1B-NB	3.50	113.95	110.33
19	A	853	WVN	C40-C37-C34	-3.50	122.38	127.28
13	A	813	CL7	C3C-C4C-NC	3.49	113.84	110.20
13	A	828	CL7	O2A-CGA-CBA	3.49	122.48	111.83
13	I	102	CL7	O2A-CGA-CBA	3.49	125.03	114.00
13	A	812	CL7	C4-C3-C5	3.49	121.28	115.23
13	A	830	CL7	C2B-C1B-NB	3.49	113.94	110.33
13	A	819	CL7	O2A-CGA-CBA	3.49	122.47	111.83
13	B	832	CL7	C1C-C2C-C3C	-3.49	101.80	106.97
13	A	835	CL7	C2B-C1B-NB	3.49	113.94	110.33
13	A	814	CL7	C2B-C1B-NB	3.48	113.94	110.33
19	L	209	WVN	C40-C37-C34	-3.48	122.39	127.28
13	A	845	CL7	O2A-C1-C2	3.48	121.51	108.11
19	L	209	WVN	C26-C29-C31	-3.48	113.12	123.20
13	A	830	CL7	C3C-C4C-NC	3.48	113.83	110.20
13	L	204	CL7	O2A-CGA-CBA	3.48	122.44	111.83
13	A	845	CL7	C1-C2-C3	-3.48	121.13	126.76
13	K	103	CL7	C2B-C1B-NB	3.48	113.93	110.33
13	A	815	CL7	C3C-C4C-NC	3.47	113.82	110.20
13	A	829	CL7	O2A-C1-C2	3.47	121.46	108.11
13	A	806	CL7	C3C-C4C-NC	3.47	113.82	110.20
13	L	205	CL7	C3D-C4D-ND	3.46	115.03	110.20
13	A	818	CL7	C3D-C4D-ND	3.46	115.03	110.20
13	J	102	CL7	C2B-C1B-NB	3.46	113.91	110.33
13	K	103	CL7	C3D-C4D-ND	3.46	115.02	110.20
13	A	819	CL7	CAA-C2A-C3A	-3.46	103.65	113.00
13	A	835	CL7	C3D-C4D-ND	3.46	115.02	110.20
13	A	839	CL7	CMA-C3A-C2A	3.45	127.34	113.98
13	F	201	CL7	C2B-C1B-NB	3.45	113.91	110.33
13	A	845	CL7	C2B-C1B-NB	3.45	113.90	110.33
19	L	202	WVN	C06-C13-C15	-3.45	117.92	122.64
19	B	848	WVN	C03-C04-C09	3.45	117.85	112.07
13	B	817	CL7	O2A-C1-C2	3.45	121.37	108.11
13	A	855	CL7	C1C-C2C-C3C	-3.45	101.86	106.97
19	L	209	WVN	C14-C15-C13	-3.44	118.05	122.70
13	A	843	CL7	C3C-C4C-NC	3.44	113.79	110.20
19	A	852	WVN	C14-C15-C13	-3.44	118.05	122.70
13	B	809	CL7	C3C-C4C-NC	3.44	113.78	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	822	CL7	O2A-C1-C2	3.44	121.33	108.11
13	B	807	CL7	C1C-C2C-C3C	-3.43	101.88	106.97
13	B	817	CL7	C2B-C1B-NB	3.43	113.89	110.33
13	A	824	CL7	CMA-C3A-C2A	-3.43	100.73	113.98
13	A	848	CL7	C2B-C1B-NB	3.43	113.88	110.33
13	B	829	CL7	CMB-C2B-C1B	3.43	130.64	125.42
13	B	832	CL7	C3C-C4C-NC	3.42	113.77	110.20
13	A	809	CL7	C1-C2-C3	-3.42	120.59	126.20
19	I	101	WVN	C10-C06-C13	3.42	115.41	110.44
13	A	805	CL7	C3D-C4D-ND	3.42	114.97	110.20
13	B	823	CL7	CMA-C3A-C2A	-3.41	100.78	113.98
13	A	840	CL7	O2A-C1-C2	3.41	121.23	108.11
13	A	829	CL7	C2B-C1B-NB	3.41	113.86	110.33
19	B	848	WVN	C26-C29-C31	-3.41	113.33	123.20
13	B	841	CL7	C3A-C4A-CHB	-3.41	118.65	123.66
19	J	101	WVN	C20-C23-C25	-3.40	121.20	126.23
13	B	813	CL7	C1C-C2C-C3C	-3.40	101.92	106.97
13	A	825	CL7	C3C-C4C-NC	3.40	113.75	110.20
13	A	830	CL7	C4-C3-C5	3.40	121.13	115.23
13	B	806	CL7	C3D-C4D-ND	3.40	114.94	110.20
13	A	816	CL7	C3C-C4C-NC	3.40	113.74	110.20
13	K	102	CL7	C2B-C1B-NB	3.39	113.85	110.33
13	A	827	CL7	C2B-C1B-NB	3.39	113.84	110.33
13	B	803	CL7	O2A-C1-C2	3.39	121.17	108.11
13	A	807	CL7	C1-O2A-CGA	3.39	124.86	116.65
13	A	817	CL7	C4-C3-C5	3.39	121.11	115.23
13	B	804	CL7	C2B-C1B-NB	3.38	113.84	110.33
13	A	809	CL7	CHD-C1D-ND	-3.38	118.97	124.05
13	L	207	CL7	CAA-CBA-CGA	-3.38	103.60	113.21
19	F	204	WVN	C02-C05-C09	-3.38	117.31	121.47
13	A	824	CL7	C1-C2-C3	-3.38	120.66	126.20
13	A	804	CL7	O2A-C1-C2	3.38	121.12	108.11
13	B	818	CL7	C3D-C4D-ND	3.38	114.91	110.20
13	J	102	CL7	C3D-C4D-ND	3.38	114.91	110.20
19	F	205	WVN	C40-C37-C34	-3.38	122.54	127.28
19	A	851	WVN	C24-C22-C26	-3.38	117.35	122.82
13	A	807	CL7	O2A-C1-C2	3.37	121.09	108.11
19	F	205	WVN	C21-C15-C14	3.37	120.79	113.60
14	A	821	LHG	O7-C7-C8	3.37	118.77	111.48
13	B	810	CL7	O2A-CGA-CBA	3.37	124.65	114.00
13	A	829	CL7	C3D-C4D-ND	3.37	114.90	110.20
13	L	204	CL7	C3C-C4C-NC	3.37	113.72	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	809	CL7	C1-O2A-CGA	3.37	124.80	116.65
13	B	803	CL7	C1C-C2C-C3C	-3.37	101.98	106.97
19	A	852	WVN	C21-C15-C14	3.37	120.78	113.60
13	A	824	CL7	C2B-C1B-NB	3.37	113.82	110.33
13	B	802	CL7	OBB-CAB-C3B	-3.37	118.03	125.62
13	B	813	CL7	C3C-C4C-NC	3.36	113.71	110.20
13	A	815	CL7	O2A-CGA-CBA	3.36	122.09	111.83
13	A	827	CL7	C3C-C4C-NC	3.36	113.71	110.20
13	A	819	CL7	C1-C2-C3	-3.36	120.69	126.20
13	B	838	CL7	C2B-C1B-NB	3.36	113.81	110.33
13	A	812	CL7	C3C-C4C-NC	3.36	113.70	110.20
16	A	833	LMT	O1'-C1'-C2'	3.35	113.37	108.27
19	A	851	WVN	C23-C20-C13	-3.35	118.04	127.00
13	B	838	CL7	C3D-C4D-ND	3.35	114.88	110.20
13	A	836	CL7	C1C-C2C-C3C	-3.35	102.00	106.97
13	B	829	CL7	CAC-C3C-C4C	3.35	129.71	124.67
13	A	816	CL7	O2A-CGA-CBA	3.35	122.05	111.83
13	B	843	CL7	C3C-C4C-NC	3.35	113.70	110.20
13	B	842	CL7	C2A-C1A-NA	3.35	115.06	108.16
13	A	817	CL7	O2A-CGA-CBA	3.35	122.05	111.83
13	B	840	CL7	O2A-CGA-CBA	3.35	124.58	114.00
13	B	824	CL7	C2B-C1B-NB	3.35	113.80	110.33
13	L	201	CL7	C2B-C1B-NB	3.35	113.80	110.33
13	A	825	CL7	O2A-CGA-CBA	3.35	122.04	111.83
13	A	818	CL7	O2A-C1-C2	3.34	120.98	108.11
13	B	831	CL7	C3C-C4C-NC	3.34	113.69	110.20
13	L	207	CL7	C3C-C4C-NC	3.34	113.69	110.20
13	A	835	CL7	O2D-CGD-O1D	-3.34	117.34	123.85
13	B	803	CL7	O2A-CGA-CBA	3.34	122.02	111.83
13	B	840	CL7	CMA-C3A-C2A	-3.34	101.07	113.98
13	A	819	CL7	C3D-C4D-ND	3.34	114.86	110.20
13	B	829	CL7	O2A-CGA-CBA	3.34	124.54	114.00
13	B	832	CL7	C3A-C4A-CHB	-3.33	118.76	123.66
13	A	837	CL7	C3C-C4C-NC	3.33	113.68	110.20
13	A	846	CL7	C3C-C4C-NC	3.33	113.67	110.20
13	A	839	CL7	C1C-C2C-C3C	-3.33	102.03	106.97
13	B	834	CL7	C3D-C4D-ND	3.33	114.84	110.20
13	A	809	CL7	C2B-C1B-NB	3.33	113.78	110.33
13	A	855	CL7	C3C-C4C-NC	3.33	113.67	110.20
13	B	806	CL7	C3C-C4C-NC	3.32	113.67	110.20
19	J	104	WVN	C06-C13-C15	-3.32	118.09	122.64
13	A	827	CL7	C3D-C4D-ND	3.32	114.83	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	805	CL7	C1C-C2C-C3C	-3.32	102.04	106.97
13	B	807	CL7	O2A-C1-C2	3.32	120.88	108.11
13	B	825	CL7	O2A-C1-C2	3.32	120.88	108.11
13	A	817	CL7	C2B-C1B-NB	3.32	113.77	110.33
13	B	834	CL7	C3A-C4A-CHB	-3.32	118.78	123.66
13	B	843	CL7	O2A-CGA-CBA	3.32	124.48	114.00
13	A	803	CL7	O2A-C1-C2	3.31	120.86	108.11
13	A	839	CL7	C2B-C1B-NB	3.31	113.76	110.33
13	A	818	CL7	CMA-C3A-C2A	-3.31	101.17	113.98
13	B	821	CL7	C1-C2-C3	-3.31	120.77	126.20
13	B	824	CL7	O2A-CGA-CBA	3.31	124.46	114.00
13	A	802	CL7	O2A-C1-C2	3.31	120.84	108.11
13	B	833	CL7	C3D-C4D-ND	3.31	114.81	110.20
13	B	812	CL7	C2B-C1B-NB	3.31	113.76	110.33
13	B	806	CL7	C2B-C1B-NB	3.31	113.75	110.33
13	B	816	CL7	C2B-C1B-NB	3.31	113.75	110.33
13	A	812	CL7	O2A-C1-C2	3.30	120.81	108.11
13	B	816	CL7	C1-C2-C3	-3.30	121.43	126.76
13	B	809	CL7	C3D-C4D-ND	3.30	114.80	110.20
13	A	840	CL7	C1-C2-C3	-3.30	120.80	126.20
13	A	840	CL7	C4-C3-C5	3.29	120.94	115.23
19	L	202	WVN	C07-C01-C02	-3.29	104.56	109.55
13	B	834	CL7	O2A-CGA-CBA	3.29	124.40	114.00
13	A	809	CL7	C3C-C4C-NC	3.29	113.64	110.20
13	B	807	CL7	CMB-C2B-C1B	3.29	130.43	125.42
13	B	809	CL7	CAA-C2A-C3A	-3.29	108.69	116.23
13	I	102	CL7	C3C-C4C-NC	3.29	113.63	110.20
13	A	814	CL7	C1-O2A-CGA	3.29	124.61	116.65
13	A	807	CL7	C1-C2-C3	-3.28	120.81	126.20
13	B	828	CL7	C3C-C4C-NC	3.28	113.63	110.20
13	A	846	CL7	C3A-C4A-CHB	-3.28	118.83	123.66
13	B	810	CL7	C3A-C4A-CHB	-3.28	118.83	123.66
13	K	102	CL7	C3D-C4D-ND	3.28	114.77	110.20
13	A	810	CL7	C3A-C4A-CHB	-3.28	118.84	123.66
13	A	843	CL7	CMC-C2C-C1C	3.28	130.50	124.73
19	A	852	WVN	C29-C26-C22	-3.27	122.69	127.28
13	F	201	CL7	O2A-C1-C2	3.27	120.70	108.11
13	A	832	CL7	C2B-C1B-NB	3.27	113.72	110.33
16	A	833	LMT	C1B-C2B-C3B	3.26	116.88	110.01
13	L	201	CL7	O2A-CGA-CBA	3.26	121.79	111.83
13	A	832	CL7	C3D-C4D-ND	3.26	114.75	110.20
13	A	841	CL7	C2B-C1B-NB	3.26	113.71	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	817	CL7	C1-C2-C3	-3.26	121.48	126.76
13	A	848	CL7	C3D-C4D-ND	3.26	114.75	110.20
13	B	803	CL7	C3D-C4D-ND	3.26	114.75	110.20
13	B	828	CL7	C3D-C4D-ND	3.26	114.75	110.20
13	A	837	CL7	CMB-C2B-C1B	3.26	130.38	125.42
13	B	828	CL7	O2D-CGD-O1D	-3.26	117.50	123.85
13	B	822	CL7	CMB-C2B-C1B	3.26	130.38	125.42
13	A	810	CL7	C2B-C1B-NB	3.26	113.70	110.33
13	A	808	CL7	C2B-C1B-NB	3.26	113.70	110.33
13	A	842	CL7	C2B-C1B-NB	3.25	113.70	110.33
13	B	829	CL7	O2D-CGD-O1D	-3.25	117.52	123.85
19	K	101	WVN	C02-C05-C09	-3.25	117.47	121.47
13	B	832	CL7	C3D-C4D-ND	3.25	114.73	110.20
13	A	825	CL7	C2B-C1B-NB	3.25	113.69	110.33
13	L	204	CL7	C2B-C1B-NB	3.25	113.69	110.33
13	A	815	CL7	C2B-C1B-NB	3.24	113.69	110.33
13	B	814	CL7	C2B-C1B-NB	3.24	113.69	110.33
13	B	813	CL7	CAA-C2A-C3A	-3.24	108.79	116.23
13	B	843	CL7	CMC-C2C-C1C	3.24	130.44	124.73
13	B	809	CL7	C2B-C1B-NB	3.24	113.69	110.33
19	A	851	WVN	C07-C01-C02	-3.24	104.64	109.55
13	A	837	CL7	C3D-C4D-ND	3.23	114.71	110.20
13	A	823	CL7	C3C-C4C-NC	3.23	113.57	110.20
13	A	806	CL7	C3D-C4D-ND	3.23	114.70	110.20
13	A	817	CL7	C3D-C4D-ND	3.23	114.70	110.20
13	B	821	CL7	C1C-C2C-C3C	-3.23	102.18	106.97
19	K	101	WVN	C21-C15-C13	-3.23	120.96	124.48
13	B	816	CL7	O2A-C1-C2	3.23	120.53	108.11
13	B	803	CL7	CMB-C2B-C1B	3.23	130.33	125.42
19	F	204	WVN	C29-C31-C32	-3.23	117.52	126.36
13	J	103	CL7	O2A-CGA-CBA	3.22	124.19	114.00
13	A	823	CL7	OBB-CAB-C3B	-3.22	118.35	125.62
19	A	854	WVN	C14-C15-C13	-3.22	118.35	122.70
13	A	811	CL7	C3D-C4D-ND	3.22	114.69	110.20
13	B	838	CL7	O2A-CGA-CBA	3.22	124.17	114.00
13	B	815	CL7	C3B-C2B-C1B	-3.22	103.38	107.17
13	B	814	CL7	C1-C2-C3	-3.21	120.94	126.20
19	A	852	WVN	C23-C20-C13	-3.21	118.42	127.00
13	A	812	CL7	C3D-C4D-ND	3.21	114.68	110.20
13	A	828	CL7	C3C-C4C-NC	3.21	113.55	110.20
13	A	807	CL7	C2B-C1B-NB	3.21	113.65	110.33
13	B	818	CL7	C2B-C1B-NB	3.21	113.65	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	802	CL7	C2B-C1B-NB	3.21	113.65	110.33
13	B	843	CL7	C3A-C4A-CHB	-3.21	118.94	123.66
13	B	842	CL7	CHD-C1D-ND	-3.21	119.44	124.08
13	A	840	CL7	C3D-C4D-ND	3.21	114.67	110.20
13	A	810	CL7	CAA-C2A-C3A	-3.21	108.88	116.23
13	A	843	CL7	C3D-C4D-ND	3.21	114.67	110.20
13	L	204	CL7	C1-C2-C3	-3.20	120.95	126.20
13	B	829	CL7	C3D-C4D-ND	3.20	114.67	110.20
13	B	841	CL7	C1C-C2C-C3C	-3.20	102.22	106.97
13	F	206	CL7	C3D-C4D-ND	3.20	114.67	110.20
13	B	837	CL7	C3A-C4A-CHB	-3.20	118.95	123.66
13	A	803	CL7	C3C-C4C-NC	3.20	113.54	110.20
13	A	836	CL7	CMC-C2C-C1C	3.20	130.36	124.73
19	L	209	WVN	C21-C15-C14	3.20	120.42	113.60
13	B	802	CL7	CMB-C2B-C1B	3.20	130.29	125.42
13	A	832	CL7	C4-C3-C2	-3.20	115.42	123.63
13	B	817	CL7	C3C-C4C-NC	3.20	113.53	110.20
13	B	840	CL7	CHD-C1D-ND	-3.19	119.26	124.05
13	A	822	CL7	C3C-C4C-NC	3.19	113.53	110.20
13	B	826	CL7	C3D-C4D-ND	3.19	114.65	110.20
13	L	204	CL7	O2A-C1-C2	3.19	120.37	108.11
13	B	808	CL7	C2B-C1B-NB	3.19	113.63	110.33
13	B	825	CL7	C3D-C4D-ND	3.19	114.64	110.20
13	A	838	CL7	C3A-C4A-CHB	-3.18	118.98	123.66
13	B	814	CL7	O2A-C1-C2	3.18	120.36	108.11
13	A	845	CL7	C3C-C4C-NC	3.18	113.52	110.20
13	B	837	CL7	O2A-C1-C2	3.18	120.36	108.11
13	B	805	CL7	C3C-C4C-NC	3.18	113.52	110.20
13	B	823	CL7	C3C-C4C-NC	3.18	113.52	110.20
13	B	803	CL7	C1-C2-C3	-3.18	120.99	126.20
13	B	843	CL7	C1C-C2C-C3C	-3.18	102.25	106.97
13	A	842	CL7	C3D-C4D-ND	3.18	114.63	110.20
13	B	834	CL7	C3C-C4C-NC	3.18	113.51	110.20
13	B	819	CL7	CHD-C1D-ND	-3.18	119.29	124.05
13	A	825	CL7	C1-O2A-CGA	3.17	124.34	116.65
13	B	821	CL7	C2B-C1B-NB	3.17	113.62	110.33
13	A	818	CL7	C3C-C4C-NC	3.17	113.51	110.20
13	A	846	CL7	C1C-C2C-C3C	-3.17	102.26	106.97
19	A	850	WVN	C08-C01-C03	-3.17	102.41	109.01
13	B	823	CL7	O2A-C1-C2	3.17	120.31	108.11
13	J	102	CL7	CMC-C2C-C1C	3.17	130.31	124.73
13	B	805	CL7	C3D-C4D-ND	3.17	114.62	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	837	CL7	O2A-C1-C2	3.17	120.30	108.11
13	A	811	CL7	C2B-C1B-NB	3.17	113.61	110.33
13	A	803	CL7	C3D-C4D-ND	3.17	114.61	110.20
13	B	805	CL7	C1-O2A-CGA	3.17	124.31	116.65
13	B	841	CL7	O2A-CGA-CBA	3.16	124.00	114.00
13	F	206	CL7	C3C-C4C-NC	3.16	113.50	110.20
13	B	830	CL7	C3A-C4A-CHB	-3.16	119.01	123.66
13	L	201	CL7	C3D-C4D-ND	3.16	114.61	110.20
13	B	830	CL7	C2B-C1B-NB	3.16	113.61	110.33
13	B	830	CL7	C3D-C4D-ND	3.16	114.61	110.20
13	B	808	CL7	C4-C3-C5	3.16	120.72	115.23
13	A	848	CL7	C3A-C4A-CHB	-3.16	119.02	123.66
13	A	830	CL7	C3A-C4A-CHB	-3.16	119.02	123.66
13	A	805	CL7	C3C-C4C-NC	3.16	113.50	110.20
13	B	816	CL7	C3C-C4C-NC	3.16	113.50	110.20
13	B	830	CL7	CMA-C3A-C2A	-3.16	101.77	113.98
13	B	814	CL7	C3D-C4D-ND	3.16	114.60	110.20
13	A	822	CL7	C3D-C4D-ND	3.15	114.60	110.20
13	B	816	CL7	C3D-C4D-ND	3.15	114.60	110.20
13	B	833	CL7	O2A-CGA-CBA	3.15	123.96	114.00
19	J	101	WVN	C02-C05-C09	-3.15	117.59	121.47
13	B	811	CL7	CAA-C2A-C3A	-3.15	109.01	116.23
19	A	850	WVN	C17-C06-C13	-3.15	105.31	110.24
13	A	836	CL7	C3D-C4D-ND	3.15	114.59	110.20
13	A	841	CL7	C3D-C4D-ND	3.15	114.59	110.20
13	B	818	CL7	O2D-CGD-O1D	-3.15	117.72	123.85
13	A	855	CL7	C2B-C1B-NB	3.15	113.59	110.33
13	B	805	CL7	C2B-C1B-NB	3.14	113.59	110.33
13	A	802	CL7	C3D-C4D-ND	3.14	114.58	110.20
13	A	809	CL7	C3D-C4D-ND	3.14	114.58	110.20
13	F	202	CL7	O2A-CGA-CBA	3.14	123.92	114.00
13	B	831	CL7	C3D-C4D-ND	3.14	114.58	110.20
19	B	847	WVN	C14-C15-C13	-3.14	118.46	122.70
13	B	813	CL7	C2B-C1B-NB	3.14	113.58	110.33
13	A	828	CL7	C3A-C4A-CHB	-3.14	119.05	123.66
13	A	845	CL7	C3D-C4D-ND	3.13	114.57	110.20
13	B	802	CL7	O2D-CGD-O1D	-3.13	117.75	123.85
13	J	102	CL7	CHD-C1D-ND	-3.13	119.35	124.05
13	F	202	CL7	C3C-C4C-NC	3.13	113.47	110.20
13	A	809	CL7	C3A-C4A-CHB	-3.13	119.06	123.66
13	A	855	CL7	CAA-C2A-C3A	-3.13	109.06	116.23
13	B	830	CL7	O2A-CGA-CBA	3.13	123.88	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	817	CL7	C3D-C4D-ND	3.13	114.56	110.20
13	B	843	CL7	C3D-C4D-ND	3.13	114.56	110.20
13	J	103	CL7	C3A-C4A-CHB	-3.13	119.06	123.66
13	J	103	CL7	C3C-C4C-NC	3.13	113.46	110.20
12	A	801	G9R	CMC-C2C-C1C	3.12	129.92	125.03
13	B	815	CL7	C3C-C4C-NC	3.12	113.46	110.20
13	B	837	CL7	C3C-C4C-NC	3.12	113.46	110.20
13	A	831	CL7	O2A-CGA-CBA	3.12	123.86	114.00
13	A	831	CL7	C2B-C1B-NB	3.12	113.56	110.33
19	B	848	WVN	C21-C15-C14	3.12	120.25	113.60
13	B	808	CL7	C3C-C4C-NC	3.12	113.45	110.20
19	B	847	WVN	C27-C25-C28	-3.12	117.77	122.82
13	A	825	CL7	C3D-C4D-ND	3.11	114.54	110.20
13	I	102	CL7	C3D-C4D-ND	3.11	114.54	110.20
13	A	822	CL7	C3A-C4A-CHB	-3.11	119.08	123.66
13	F	201	CL7	C3A-C4A-CHB	-3.11	119.08	123.66
13	B	842	CL7	C3A-C4A-CHB	-3.11	120.10	123.91
13	A	807	CL7	O2D-CGD-O1D	-3.11	117.79	123.85
13	B	828	CL7	C2B-C1B-NB	3.11	113.55	110.33
13	A	806	CL7	C1-C2-C3	-3.11	121.10	126.20
13	A	828	CL7	C3D-C4D-ND	3.11	114.53	110.20
13	B	811	CL7	C2B-C1B-NB	3.11	113.55	110.33
13	B	804	CL7	C3A-C4A-CHB	-3.11	119.09	123.66
13	B	822	CL7	O2D-CGD-O1D	-3.11	117.80	123.85
13	L	201	CL7	C3C-C4C-NC	3.10	113.44	110.20
13	A	846	CL7	O2A-CGA-CBA	3.10	123.80	114.00
13	A	814	CL7	C3D-C4D-ND	3.10	114.52	110.20
13	B	811	CL7	CHD-C1D-ND	-3.10	119.40	124.05
13	B	831	CL7	C2B-C1B-NB	3.10	113.54	110.33
13	A	842	CL7	C3A-C4A-CHB	-3.09	119.11	123.66
19	J	104	WVN	C04-C09-C05	-3.09	121.88	124.83
13	B	825	CL7	C3C-C4C-NC	3.09	113.43	110.20
19	J	101	WVN	C39-C40-C37	-3.09	117.19	123.52
13	F	202	CL7	C3D-C4D-ND	3.09	114.51	110.20
19	A	851	WVN	C02-C05-C09	-3.09	117.67	121.47
13	F	202	CL7	C3A-C4A-CHB	-3.09	119.12	123.66
13	K	102	CL7	C3C-C4C-NC	3.09	113.42	110.20
13	L	204	CL7	C3D-C4D-ND	3.08	114.50	110.20
13	F	206	CL7	O2A-CGA-CBA	3.08	123.74	114.00
13	A	808	CL7	C1-C2-C3	-3.08	121.14	126.20
19	F	205	WVN	C39-C36-C32	-3.08	122.95	127.28
13	A	836	CL7	O2A-C1-C2	3.08	119.96	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	A	853	WVN	C29-C26-C22	-3.08	122.97	127.28
13	L	207	CL7	C1-C2-C3	-3.07	121.16	126.20
13	A	810	CL7	C3C-C4C-NC	3.07	113.41	110.20
13	J	102	CL7	OBB-CAB-C3B	-3.07	118.69	125.62
13	F	206	CL7	C3A-C4A-CHB	-3.07	119.14	123.66
13	L	205	CL7	C2B-C1B-NB	3.07	113.51	110.33
13	L	207	CL7	C3D-C4D-ND	3.07	114.48	110.20
19	M	101	WVN	C14-C15-C13	-3.07	118.56	122.70
13	B	802	CL7	C3D-C4D-ND	3.07	114.48	110.20
19	B	848	WVN	C14-C15-C13	-3.07	118.56	122.70
13	A	837	CL7	C1C-C2C-C3C	-3.07	102.42	106.97
13	A	848	CL7	CHD-C1D-ND	-3.07	119.45	124.05
19	J	101	WVN	C40-C37-C34	-3.07	122.97	127.28
13	I	102	CL7	C3A-C4A-CHB	-3.07	119.15	123.66
13	A	824	CL7	C3D-C4D-ND	3.07	114.48	110.20
13	B	819	CL7	C3A-C4A-CHB	-3.06	119.16	123.66
13	B	824	CL7	C3D-C4D-ND	3.06	114.47	110.20
13	A	812	CL7	CMB-C2B-C1B	3.06	130.08	125.42
19	B	848	WVN	C23-C20-C13	-3.06	118.82	127.00
13	A	837	CL7	C3A-C4A-CHB	-3.06	119.16	123.66
13	A	831	CL7	C3C-C4C-NC	3.06	113.39	110.20
19	B	848	WVN	C39-C40-C37	-3.06	117.27	123.52
13	A	807	CL7	C3C-C4C-NC	3.05	113.39	110.20
13	A	831	CL7	C3D-C4D-ND	3.05	114.45	110.20
13	B	812	CL7	C3C-C4C-NC	3.05	113.38	110.20
13	A	814	CL7	C3C-C4C-NC	3.04	113.38	110.20
13	A	836	CL7	C1-C2-C3	-3.04	121.21	126.20
13	A	832	CL7	CMC-C2C-C1C	3.04	130.09	124.73
13	B	811	CL7	C3C-C4C-NC	3.04	113.38	110.20
13	J	103	CL7	C3D-C4D-ND	3.04	114.44	110.20
13	A	816	CL7	C1-C2-C3	-3.04	121.84	126.76
13	A	813	CL7	C2B-C1B-NB	3.04	113.48	110.33
19	M	101	WVN	C02-C11-C19	-3.04	119.85	124.58
14	A	821	LHG	O8-C23-C24	3.04	121.09	111.83
13	B	807	CL7	C3D-C4D-ND	3.04	114.43	110.20
13	B	846	CL7	CHD-C4C-NC	-3.03	120.53	124.80
19	L	209	WVN	C23-C20-C13	-3.03	118.90	127.00
19	A	851	WVN	C04-C09-C05	-3.03	121.94	124.83
13	B	823	CL7	C3D-C4D-ND	3.03	114.43	110.20
13	L	207	CL7	C2B-C1B-NB	3.03	113.47	110.33
13	L	204	CL7	C3A-C4A-CHB	-3.03	119.21	123.66
13	B	805	CL7	O2A-CGA-CBA	3.03	121.07	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	831	CL7	CHD-C1D-ND	-3.03	119.50	124.05
13	B	841	CL7	C3D-C4D-ND	3.03	114.42	110.20
13	A	842	CL7	C3C-C4C-NC	3.03	113.36	110.20
13	F	201	CL7	O2D-CGD-O1D	-3.03	117.96	123.85
19	B	848	WVN	C28-C30-C33	-3.02	114.44	123.20
13	B	837	CL7	C3D-C4D-ND	3.02	114.41	110.20
13	A	838	CL7	C3D-C4D-ND	3.02	114.41	110.20
13	B	846	CL7	CAA-C2A-C3A	-3.02	109.31	116.23
13	B	809	CL7	C3A-C4A-CHB	-3.01	119.23	123.66
19	J	104	WVN	C08-C01-C02	3.01	114.11	109.55
13	A	841	CL7	C3A-C4A-CHB	-3.01	119.23	123.66
13	A	835	CL7	O2A-C1-C2	3.01	119.70	108.11
19	I	101	WVN	C40-C37-C34	-3.01	123.06	127.28
13	A	805	CL7	C4-C3-C5	3.01	120.45	115.23
15	A	826	PQN	C14-C13-C15	3.01	120.45	115.23
13	B	824	CL7	CHD-C1D-ND	-3.01	119.54	124.05
13	A	839	CL7	O2D-CGD-O1D	-3.00	118.00	123.85
13	B	812	CL7	C3D-C4D-ND	3.00	114.39	110.20
13	A	816	CL7	O2A-C1-C2	3.00	119.64	108.11
13	B	829	CL7	C3A-C4A-CHB	-3.00	119.25	123.66
13	A	855	CL7	C3D-C4D-ND	2.99	114.37	110.20
13	B	823	CL7	C2B-C1B-NB	2.99	113.43	110.33
13	L	201	CL7	O2D-CGD-O1D	-2.99	118.03	123.85
13	A	811	CL7	C1-O2A-CGA	2.99	123.88	116.65
13	B	830	CL7	C3C-C4C-NC	2.99	113.32	110.20
13	B	846	CL7	OBD-CAD-C3D	-2.99	121.44	128.42
13	K	103	CL7	CHD-C1D-ND	-2.98	119.57	124.05
13	A	824	CL7	C3A-C4A-CHB	-2.98	119.27	123.66
12	A	801	G9R	CMB-C2B-C1B	2.98	129.95	125.42
13	B	821	CL7	C3D-C4D-ND	2.98	114.35	110.20
13	B	812	CL7	CMB-C2B-C1B	2.98	129.95	125.42
19	A	851	WVN	C26-C29-C31	-2.97	114.58	123.20
19	F	205	WVN	C02-C11-C19	-2.97	119.95	124.58
13	B	829	CL7	C3C-C4C-NC	2.97	113.30	110.20
13	B	810	CL7	O2D-CGD-O1D	-2.97	118.06	123.85
13	A	824	CL7	C3C-C4C-NC	2.97	113.30	110.20
13	B	811	CL7	C3D-C4D-ND	2.97	114.34	110.20
19	A	851	WVN	C01-C02-C11	-2.97	109.41	112.83
13	A	819	CL7	C2B-C1B-NB	2.96	113.40	110.33
13	A	809	CL7	O2D-CGD-O1D	-2.96	118.08	123.85
13	L	205	CL7	C3C-C4C-NC	2.96	113.29	110.20
13	A	848	CL7	C3C-C4C-NC	2.96	113.29	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	L	210	WVN	C07-C01-C02	2.96	114.03	109.55
13	B	815	CL7	C3A-C4A-CHB	-2.96	119.31	123.66
13	L	207	CL7	CMC-C2C-C1C	2.96	129.94	124.73
19	L	202	WVN	C21-C15-C13	-2.96	121.26	124.48
13	A	802	CL7	CMC-C2C-C1C	2.96	129.94	124.73
13	K	103	CL7	C3C-C4C-NC	2.96	113.29	110.20
13	L	207	CL7	O2D-CGD-O1D	-2.95	118.10	123.85
13	B	824	CL7	C3A-C4A-CHB	-2.95	119.32	123.66
19	K	101	WVN	C28-C30-C33	-2.95	114.64	123.20
19	A	853	WVN	C17-C06-C13	-2.95	105.61	110.24
19	F	204	WVN	C23-C20-C13	-2.95	119.11	127.00
13	A	823	CL7	C3D-C4D-ND	2.95	114.32	110.20
19	L	202	WVN	C23-C20-C13	-2.95	119.11	127.00
13	A	818	CL7	C1-C2-C3	-2.95	121.36	126.20
13	B	833	CL7	CHD-C1D-ND	-2.95	119.62	124.05
13	A	835	CL7	C3C-C4C-NC	2.95	113.28	110.20
13	A	811	CL7	CHD-C1D-ND	-2.95	119.62	124.05
13	A	803	CL7	C3A-C4A-CHB	-2.95	119.32	123.66
13	L	205	CL7	CHD-C1D-ND	-2.95	119.62	124.05
13	A	832	CL7	C4-C3-C5	2.95	120.35	115.23
13	B	828	CL7	CHD-C1D-ND	-2.95	119.63	124.05
13	B	813	CL7	C3D-C4D-ND	2.95	114.31	110.20
13	A	810	CL7	O2D-CGD-O1D	-2.94	118.12	123.85
13	B	830	CL7	CHD-C1D-ND	-2.94	119.63	124.05
13	A	855	CL7	O2D-CGD-O1D	-2.94	118.12	123.85
13	A	816	CL7	C2B-C1B-NB	2.94	113.38	110.33
13	B	814	CL7	OBB-CAB-C3B	-2.94	118.98	125.62
13	A	830	CL7	C3D-C4D-ND	2.94	114.30	110.20
13	A	819	CL7	C3C-C4C-NC	2.94	113.27	110.20
13	A	807	CL7	C3D-C4D-ND	2.94	114.30	110.20
13	A	824	CL7	O2D-CGD-O1D	-2.94	118.13	123.85
13	K	103	CL7	C3A-C4A-CHB	-2.94	119.34	123.66
13	A	840	CL7	C3C-C4C-NC	2.93	113.26	110.20
13	J	102	CL7	O1D-CGD-CBD	-2.93	118.74	124.52
13	A	813	CL7	O2D-CGD-O1D	-2.93	118.15	123.85
13	B	833	CL7	C2B-C1B-NB	2.93	113.36	110.33
13	B	841	CL7	CMC-C2C-C1C	2.93	129.88	124.73
13	B	846	CL7	C3D-C4D-ND	2.93	114.28	110.20
19	A	853	WVN	C26-C29-C31	-2.93	114.72	123.20
13	A	807	CL7	O2A-CGA-CBA	2.93	120.76	111.83
13	B	806	CL7	C4-C3-C5	2.92	120.31	115.23
13	L	205	CL7	C1-C2-C3	-2.92	121.41	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	802	CL7	CMC-C2C-C1C	2.92	129.87	124.73
13	B	841	CL7	C4C-C3C-C2C	-2.92	103.26	107.11
19	A	852	WVN	C01-C02-C11	-2.92	109.47	112.83
13	A	839	CL7	C1-C2-C3	-2.92	121.42	126.20
13	A	814	CL7	CHD-C1D-ND	-2.92	119.67	124.05
13	B	826	CL7	O2A-C1-C2	2.92	119.33	108.11
13	B	821	CL7	O2A-CGA-CBA	2.91	120.72	111.83
13	A	841	CL7	CMC-C2C-C1C	2.91	129.86	124.73
13	A	829	CL7	C3A-C4A-CHB	-2.91	119.38	123.66
13	B	817	CL7	O2D-CGD-O1D	-2.91	118.18	123.85
13	A	816	CL7	C3D-C4D-ND	2.91	114.26	110.20
13	B	826	CL7	CHD-C1D-ND	-2.91	119.68	124.05
13	B	829	CL7	CHC-C1C-C2C	-2.91	119.43	125.49
13	B	826	CL7	C4-C3-C5	2.91	120.28	115.23
13	B	834	CL7	CHD-C1D-ND	-2.91	119.69	124.05
13	A	829	CL7	CHD-C1D-ND	-2.91	119.69	124.05
13	B	832	CL7	O2D-CGD-O1D	-2.91	118.19	123.85
19	A	850	WVN	C29-C26-C22	-2.91	123.20	127.28
13	A	832	CL7	CMB-C2B-C1B	2.91	129.84	125.42
13	A	835	CL7	C1-O2A-CGA	2.90	123.68	116.65
13	A	829	CL7	C3C-C4C-NC	2.90	113.23	110.20
19	A	850	WVN	C28-C30-C33	-2.90	114.79	123.20
13	B	808	CL7	O2D-CGD-O1D	-2.90	118.20	123.85
13	A	843	CL7	C2B-C1B-NB	2.90	113.33	110.33
13	A	811	CL7	C3C-C4C-NC	2.90	113.23	110.20
13	B	803	CL7	C4-C3-C5	2.90	120.26	115.23
13	A	805	CL7	C1-C2-C3	-2.90	121.45	126.20
13	B	838	CL7	C3C-C4C-NC	2.90	113.22	110.20
13	A	819	CL7	C3A-C4A-CHB	-2.89	119.41	123.66
13	L	204	CL7	CMC-C2C-C1C	2.89	129.82	124.73
13	A	840	CL7	CHD-C1D-ND	-2.89	119.71	124.05
13	L	205	CL7	CMB-C2B-C1B	2.89	129.82	125.42
13	A	855	CL7	C3A-C4A-CHB	-2.89	119.41	123.66
13	A	823	CL7	C6-C5-C3	-2.89	106.43	113.47
13	A	808	CL7	C3D-C4D-ND	2.89	114.23	110.20
13	B	806	CL7	C3A-C4A-CHB	-2.88	119.42	123.66
13	B	812	CL7	O2D-CGD-O1D	-2.88	118.24	123.85
13	A	816	CL7	CAC-C3C-C4C	2.88	129.00	124.67
13	K	102	CL7	C3A-C4A-CHB	-2.88	119.42	123.66
13	B	816	CL7	CHD-C1D-ND	-2.88	119.73	124.05
13	A	832	CL7	O2A-CGA-CBA	2.88	120.61	111.83
13	A	804	CL7	C1-C2-C3	-2.88	121.48	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	830	CL7	O2D-CGD-O1D	-2.87	118.25	123.85
13	A	836	CL7	C2B-C1B-NB	2.87	113.31	110.33
13	A	835	CL7	CMA-C3A-C2A	-2.87	102.88	113.98
13	A	835	CL7	CHD-C1D-ND	-2.87	119.74	124.05
13	B	815	CL7	O2D-CGD-O1D	-2.87	118.26	123.85
13	A	816	CL7	C3A-C4A-CHB	-2.87	119.44	123.66
19	A	850	WVN	C14-C15-C13	-2.87	118.83	122.70
13	B	806	CL7	C1-O2A-CGA	2.87	123.59	116.65
13	B	813	CL7	CMA-C3A-C2A	-2.87	109.66	116.23
13	B	838	CL7	O2D-CGD-O1D	-2.86	118.27	123.85
13	B	807	CL7	CHD-C1D-ND	-2.86	119.75	124.05
13	K	103	CL7	C4D-C3D-CAD	2.86	110.35	107.20
13	A	845	CL7	C3A-C4A-CHB	-2.86	119.45	123.66
13	A	804	CL7	C3D-C4D-ND	2.86	114.19	110.20
22	B	845	K3I	C29-C31-C32	-2.86	119.36	127.00
13	B	806	CL7	CMC-C2C-C1C	2.86	129.76	124.73
13	B	825	CL7	C3A-C4A-CHB	-2.86	119.46	123.66
13	A	813	CL7	CMC-C2C-C1C	2.86	129.76	124.73
13	B	805	CL7	CMC-C2C-C1C	2.85	129.75	124.73
19	L	202	WVN	C29-C26-C22	-2.85	123.28	127.28
13	B	808	CL7	C1-C2-C3	-2.85	121.52	126.20
13	A	805	CL7	CHD-C1D-ND	-2.85	119.77	124.05
13	B	811	CL7	C3A-C4A-CHB	-2.85	119.47	123.66
19	B	847	WVN	C28-C30-C33	-2.85	114.94	123.20
13	B	821	CL7	CHD-C1D-ND	-2.85	119.77	124.05
13	A	829	CL7	CMA-C3A-C2A	2.85	125.00	113.98
13	A	831	CL7	C3A-C4A-CHB	-2.85	119.47	123.66
13	A	812	CL7	C2B-C1B-NB	2.85	113.28	110.33
13	A	804	CL7	CHD-C1D-ND	-2.85	119.78	124.05
13	A	840	CL7	C3A-C4A-CHB	-2.85	119.48	123.66
13	A	818	CL7	C2B-C1B-NB	2.84	113.27	110.33
13	A	825	CL7	O2D-CGD-O1D	-2.84	118.32	123.85
19	J	101	WVN	C20-C13-C15	-2.84	115.02	121.56
13	B	838	CL7	CHD-C1D-ND	-2.84	119.80	124.05
13	A	805	CL7	C3A-C4A-CHB	-2.83	119.49	123.66
13	B	814	CL7	CMC-C2C-C1C	2.83	129.72	124.73
19	F	204	WVN	C31-C32-C36	-2.83	114.56	119.01
13	J	102	CL7	CAA-C2A-C3A	-2.83	105.36	113.00
13	F	206	CL7	CHD-C1D-ND	-2.83	119.81	124.05
13	A	828	CL7	CHD-C1D-ND	-2.82	119.81	124.05
13	B	803	CL7	C1-O2A-CGA	2.82	123.49	116.65
13	B	805	CL7	CHD-C1D-ND	-2.82	119.81	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	830	CL7	CMB-C2B-C1B	2.82	129.72	125.42
13	B	815	CL7	O2A-C1-C2	2.82	118.97	108.11
13	B	833	CL7	C3C-C4C-NC	2.82	113.14	110.20
19	L	209	WVN	C28-C30-C33	-2.82	115.03	123.20
13	B	802	CL7	C1-C2-C3	-2.82	121.58	126.20
13	A	805	CL7	O2D-CGD-O1D	-2.82	118.37	123.85
13	B	837	CL7	CHD-C1D-ND	-2.81	119.83	124.05
13	A	829	CL7	O2D-CGD-O1D	-2.81	118.37	123.85
13	A	829	CL7	CMB-C2B-C1B	2.81	129.70	125.42
13	A	845	CL7	O2D-CGD-O1D	-2.81	118.38	123.85
13	A	827	CL7	CMB-C2B-C1B	2.81	129.70	125.42
13	B	838	CL7	C3A-C4A-CHB	-2.81	119.53	123.66
19	L	210	WVN	C38-C34-C33	2.81	122.38	118.09
13	A	843	CL7	O2D-CGD-O1D	-2.81	118.38	123.85
13	A	819	CL7	C4-C3-C5	2.81	120.10	115.23
19	K	101	WVN	C01-C02-C11	-2.81	109.60	112.83
13	B	808	CL7	C3D-C4D-ND	2.81	114.11	110.20
13	A	855	CL7	CHD-C1D-ND	-2.81	119.84	124.05
13	A	808	CL7	CMC-C2C-C1C	2.81	129.67	124.73
19	I	101	WVN	C02-C11-C19	-2.80	120.21	124.58
19	I	101	WVN	C28-C30-C33	-2.80	115.08	123.20
13	B	806	CL7	CMB-C2B-C1B	2.80	129.68	125.42
13	A	804	CL7	CMA-C3A-C2A	-2.80	103.17	113.98
13	B	846	CL7	C2B-C1B-NB	2.80	113.23	110.33
13	A	809	CL7	CMB-C2B-C1B	2.80	129.68	125.42
20	L	203	LMG	O8-C28-C29	2.80	120.36	111.83
13	B	809	CL7	CHD-C1D-ND	-2.80	119.86	124.05
14	A	820	LHG	C5-O7-C7	-2.79	111.11	117.80
13	A	804	CL7	O2D-CGD-O1D	-2.79	118.41	123.85
12	A	801	G9R	CHD-C1D-ND	-2.79	120.87	124.80
13	B	806	CL7	O1D-CGD-CBD	-2.79	119.02	124.52
13	B	807	CL7	CMC-C2C-C1C	2.79	129.64	124.73
19	L	202	WVN	C21-C15-C14	2.79	119.54	113.60
13	J	103	CL7	CHD-C1D-ND	-2.79	119.86	124.05
13	B	829	CL7	CHD-C1D-ND	-2.79	119.87	124.05
13	B	825	CL7	CHD-C1D-ND	-2.79	119.87	124.05
19	I	101	WVN	C29-C26-C22	-2.79	123.37	127.28
13	A	808	CL7	C1-O2A-CGA	2.79	123.39	116.65
13	B	815	CL7	CHD-C1D-ND	-2.78	119.87	124.05
16	A	833	LMT	O3'-C3'-C2'	-2.78	103.82	110.38
13	B	816	CL7	C3A-C4A-CHB	-2.78	119.57	123.66
13	A	841	CL7	CAA-C2A-C3A	-2.78	105.48	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	812	CL7	C4-C3-C5	2.78	120.06	115.23
13	A	807	CL7	CMB-C2B-C1B	2.78	129.65	125.42
13	B	822	CL7	CMC-C2C-C1C	2.78	129.62	124.73
13	F	201	CL7	C3D-C4D-ND	2.78	114.08	110.20
13	A	804	CL7	C3A-C4A-CHB	-2.78	119.58	123.66
13	A	806	CL7	CMC-C2C-C1C	2.78	129.62	124.73
13	A	824	CL7	CHD-C1D-ND	-2.78	119.88	124.05
13	B	804	CL7	C1-O2A-CGA	2.77	123.37	116.65
13	A	845	CL7	CHD-C1D-ND	-2.77	119.89	124.05
13	F	201	CL7	CHD-C1D-ND	-2.77	119.89	124.05
13	K	102	CL7	CHD-C1D-ND	-2.77	119.89	124.05
13	A	810	CL7	CMC-C2C-C1C	2.77	129.61	124.73
19	L	210	WVN	C20-C13-C15	-2.77	115.17	121.56
13	B	817	CL7	CMC-C2C-C1C	2.77	129.61	124.73
13	A	810	CL7	C3D-C4D-ND	2.77	114.06	110.20
13	A	842	CL7	O2A-C1-C2	2.77	118.77	108.11
13	A	846	CL7	C3D-C4D-ND	2.77	114.06	110.20
13	B	810	CL7	C3D-C4D-ND	2.77	114.06	110.20
13	A	806	CL7	C2B-C1B-NB	2.77	113.20	110.33
13	B	803	CL7	CMC-C2C-C1C	2.77	129.60	124.73
13	A	846	CL7	C4C-C3C-C2C	-2.77	103.47	107.11
13	B	832	CL7	CHD-C1D-ND	-2.77	119.90	124.05
13	A	841	CL7	CHD-C1D-ND	-2.77	119.90	124.05
13	A	811	CL7	O2A-C1-C2	2.77	118.75	108.11
19	I	101	WVN	C08-C01-C02	-2.77	105.36	109.55
13	A	803	CL7	CHD-C1D-ND	-2.77	119.90	124.05
13	A	806	CL7	CHD-C1D-ND	-2.77	119.90	124.05
13	A	818	CL7	CMC-C2C-C1C	2.76	129.60	124.73
13	A	823	CL7	CHD-C1D-ND	-2.76	119.91	124.05
13	L	207	CL7	C3A-C4A-CHB	-2.76	119.60	123.66
13	B	822	CL7	C4-C3-C5	2.76	120.02	115.23
13	A	827	CL7	C3A-C4A-CHB	-2.76	119.60	123.66
13	A	802	CL7	CHD-C1D-ND	-2.76	119.91	124.05
22	B	845	K3I	C26-C27-C28	-2.76	123.41	127.28
13	B	826	CL7	O2D-CGD-O1D	-2.76	118.48	123.85
19	L	210	WVN	C39-C40-C37	-2.76	117.88	123.52
13	A	840	CL7	O2D-CGD-O1D	-2.75	118.49	123.85
13	A	846	CL7	CHD-C1D-ND	-2.75	119.92	124.05
13	A	828	CL7	CMB-C2B-C1B	2.75	129.61	125.42
19	J	101	WVN	C14-C15-C13	-2.75	118.99	122.70
13	B	825	CL7	CMC-C2C-C1C	2.75	129.57	124.73
13	I	102	CL7	CHD-C1D-ND	-2.75	119.92	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	803	CL7	O2D-CGD-O1D	-2.75	118.50	123.85
19	B	847	WVN	C39-C36-C32	-2.75	123.42	127.28
13	B	821	CL7	C4-C3-C5	2.75	120.00	115.23
13	B	826	CL7	C2B-C1B-NB	2.75	113.18	110.33
13	A	837	CL7	C4C-C3C-C2C	-2.75	103.49	107.11
19	J	101	WVN	C39-C36-C32	-2.74	123.43	127.28
13	F	201	CL7	CMC-C2C-C1C	2.74	129.56	124.73
13	B	841	CL7	OBB-CAB-C3B	-2.74	119.43	125.62
19	J	104	WVN	C39-C36-C32	-2.74	123.43	127.28
19	F	204	WVN	C28-C30-C33	-2.74	115.26	123.20
13	A	815	CL7	C3D-C4D-ND	2.74	114.02	110.20
19	A	854	WVN	C10-C06-C13	2.74	114.41	110.44
19	L	210	WVN	C39-C36-C32	-2.73	123.45	127.28
13	A	827	CL7	CHD-C1D-ND	-2.73	119.95	124.05
13	A	825	CL7	C4-C3-C5	2.73	119.97	115.23
13	B	811	CL7	O2D-CGD-O1D	-2.73	118.54	123.85
13	B	832	CL7	OBB-CAB-C3B	-2.72	119.47	125.62
13	A	819	CL7	C1-O2A-CGA	2.72	123.25	116.65
13	A	832	CL7	C3C-C4C-NC	2.72	113.04	110.20
13	B	842	CL7	C3C-C4C-NC	2.72	113.22	109.50
13	A	819	CL7	CMA-C3A-C2A	-2.72	103.46	113.98
13	F	201	CL7	C1-C2-C3	-2.72	121.74	126.20
16	A	833	LMT	C2'-C3'-C4'	2.72	115.86	109.68
14	A	820	LHG	O8-C23-C24	2.72	120.13	111.83
13	A	802	CL7	C1-O2A-CGA	2.72	123.23	116.65
13	B	808	CL7	C3A-C4A-CHB	-2.72	119.66	123.66
12	A	801	G9R	C1-O2A-CGA	2.72	123.23	116.65
13	B	840	CL7	C3C-C4C-NC	2.72	113.03	110.20
19	A	852	WVN	C26-C29-C31	-2.72	115.33	123.20
13	A	843	CL7	CMB-C2B-C1B	2.72	129.55	125.42
19	A	851	WVN	C21-C15-C14	2.72	119.39	113.60
13	B	821	CL7	C1-O2A-CGA	2.72	123.22	116.65
13	J	103	CL7	CMC-C2C-C1C	2.71	129.51	124.73
13	A	819	CL7	CMC-C2C-C1C	2.71	129.50	124.73
13	A	813	CL7	C3D-C4D-ND	2.71	113.98	110.20
13	A	836	CL7	C3A-C4A-CHB	-2.71	119.67	123.66
19	F	204	WVN	C07-C01-C02	2.71	113.65	109.55
13	B	824	CL7	CMC-C2C-C1C	2.71	129.50	124.73
13	B	831	CL7	O2D-CGD-O1D	-2.71	118.57	123.85
13	A	825	CL7	CMB-C2B-C1B	2.71	129.54	125.42
13	A	804	CL7	CMC-C2C-C1C	2.71	129.50	124.73
19	B	847	WVN	C40-C37-C34	-2.71	123.48	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	839	CL7	C3A-C4A-CHB	-2.71	119.68	123.66
13	K	103	CL7	CAD-CBD-CHA	-2.71	102.20	105.12
13	A	823	CL7	CMC-C2C-C1C	2.71	129.49	124.73
13	B	831	CL7	CMC-C2C-C1C	2.70	129.49	124.73
13	B	817	CL7	CHD-C1D-ND	-2.70	119.99	124.05
13	B	803	CL7	C2B-C1B-NB	2.70	113.13	110.33
13	F	202	CL7	CHD-C1D-ND	-2.70	119.99	124.05
13	B	809	CL7	CMC-C2C-C1C	2.70	129.49	124.73
13	A	816	CL7	CMC-C2C-C1C	2.70	129.48	124.73
13	B	828	CL7	CMA-C3A-C2A	-2.70	103.55	113.98
13	A	827	CL7	CMC-C2C-C1C	2.70	129.48	124.73
13	A	832	CL7	CAC-C3C-C4C	2.70	128.73	124.67
13	B	810	CL7	CMA-C3A-C2A	-2.70	103.56	113.98
13	B	818	CL7	C3C-C4C-NC	2.70	113.01	110.20
13	A	842	CL7	CHD-C1D-ND	-2.69	120.01	124.05
13	L	207	CL7	CHD-C1D-ND	-2.69	120.01	124.05
13	A	811	CL7	O2D-CGD-O1D	-2.69	118.61	123.85
13	B	808	CL7	CMC-C2C-C1C	2.69	129.47	124.73
13	K	103	CL7	CMB-C2B-C1B	2.69	129.52	125.42
13	B	837	CL7	CMC-C2C-C1C	2.69	129.47	124.73
13	B	813	CL7	C3A-C4A-CHB	-2.69	119.70	123.66
13	A	824	CL7	CMC-C2C-C1C	2.69	129.47	124.73
13	A	839	CL7	C4C-C3C-C2C	-2.69	103.57	107.11
13	B	815	CL7	CMC-C2C-C1C	2.69	129.46	124.73
13	B	815	CL7	C2B-C1B-NB	2.68	113.11	110.33
13	A	822	CL7	C1-C2-C3	-2.68	121.80	126.20
19	L	210	WVN	C40-C37-C34	-2.68	123.52	127.28
13	A	827	CL7	C4-C3-C5	2.68	119.88	115.23
13	L	201	CL7	C1-O2A-CGA	2.68	123.14	116.65
13	A	839	CL7	CAC-C3C-C4C	2.68	128.70	124.67
13	A	815	CL7	C3A-C4A-CHB	-2.68	119.72	123.66
13	A	802	CL7	CMB-C2B-C1B	2.68	129.50	125.42
13	A	835	CL7	C3A-C4A-CHB	-2.68	119.72	123.66
13	B	825	CL7	CMB-C2B-C1B	2.68	129.49	125.42
13	A	808	CL7	C3A-C4A-CHB	-2.68	119.73	123.66
13	B	837	CL7	C1-C2-C3	-2.67	122.44	126.76
13	B	806	CL7	CHD-C1D-ND	-2.67	120.04	124.05
13	B	812	CL7	CMC-C2C-C1C	2.67	129.44	124.73
19	J	104	WVN	C23-C20-C13	-2.67	119.86	127.00
13	A	812	CL7	CHD-C1D-ND	-2.67	120.04	124.05
13	B	843	CL7	CHD-C1D-ND	-2.67	120.04	124.05
13	A	816	CL7	C1-O2A-CGA	2.67	123.12	116.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	845	CL7	CMC-C2C-C1C	2.67	129.43	124.73
13	B	823	CL7	CMB-C2B-C1B	2.67	129.48	125.42
16	A	833	LMT	C3B-C4B-C5B	2.66	115.06	110.23
13	A	805	CL7	C1-O2A-CGA	2.66	123.09	116.65
13	B	804	CL7	O2D-CGD-O1D	-2.66	118.67	123.85
13	A	807	CL7	CHD-C1D-ND	-2.66	120.06	124.05
13	A	842	CL7	C1-O2A-CGA	2.66	123.09	116.65
14	A	821	LHG	C5-O7-C7	-2.66	111.43	117.80
13	A	843	CL7	C3A-C4A-CHB	-2.66	119.75	123.66
13	A	825	CL7	CHD-C1D-ND	-2.66	120.06	124.05
13	B	837	CL7	O2D-CGD-O1D	-2.66	118.67	123.85
13	F	202	CL7	O2D-CGD-O1D	-2.66	118.67	123.85
13	B	813	CL7	CMB-C2B-C1B	2.66	129.47	125.42
13	B	807	CL7	O2D-CGD-O1D	-2.66	118.68	123.85
13	L	204	CL7	C4-C3-C5	2.66	119.84	115.23
13	B	833	CL7	C3A-C4A-CHB	-2.65	119.76	123.66
19	L	202	WVN	C03-C04-C09	2.65	116.52	112.07
13	A	838	CL7	CHD-C1D-ND	-2.65	120.07	124.05
13	A	838	CL7	C4C-C3C-C2C	-2.65	103.62	107.11
13	A	819	CL7	CED-O2D-CGD	2.65	121.92	115.92
13	B	825	CL7	C4-C3-C5	2.65	119.83	115.23
13	B	830	CL7	OBB-CAB-C3B	-2.65	119.64	125.62
12	A	801	G9R	O2A-C1-C2	2.65	118.30	108.11
13	A	823	CL7	C3A-C4A-CHB	-2.65	119.77	123.66
13	B	803	CL7	C4C-C3C-C2C	-2.65	103.62	107.11
13	B	805	CL7	CMB-C2B-C1B	2.65	129.45	125.42
13	A	831	CL7	CHD-C1D-ND	-2.65	120.08	124.05
13	A	802	CL7	C2B-C1B-NB	2.65	113.07	110.33
13	A	817	CL7	CMC-C2C-C1C	2.64	129.38	124.73
19	L	210	WVN	C17-C06-C13	-2.64	106.10	110.24
13	B	838	CL7	CMB-C2B-C1B	2.64	129.44	125.42
13	B	828	CL7	C3A-C4A-CHB	-2.64	119.77	123.66
13	L	204	CL7	CHD-C1D-ND	-2.64	120.08	124.05
13	A	810	CL7	O1D-CGD-CBD	-2.64	119.31	124.52
13	B	816	CL7	O2D-CGD-O1D	-2.64	118.71	123.85
12	A	801	G9R	C3D-C4D-ND	2.64	114.28	109.99
13	L	205	CL7	C3D-C2D-C1D	-2.64	97.97	106.40
13	F	206	CL7	O2D-CGD-O1D	-2.64	118.71	123.85
13	B	822	CL7	C3D-C2D-C1D	-2.64	97.97	106.40
13	A	832	CL7	C3A-C4A-CHB	-2.64	119.78	123.66
13	B	842	CL7	C2A-C3A-C4A	-2.64	100.56	103.57
13	B	813	CL7	O2D-CGD-O1D	-2.64	118.71	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	L	209	WVN	C01-C02-C11	-2.64	109.79	112.83
13	B	822	CL7	C1-C2-C3	-2.64	121.88	126.20
13	A	828	CL7	C1-O2A-CGA	2.64	123.03	116.65
13	A	843	CL7	CMA-C3A-C2A	-2.64	103.79	113.98
13	A	813	CL7	C3D-C2D-C1D	-2.63	97.98	106.40
13	A	827	CL7	O2D-CGD-O1D	-2.63	118.72	123.85
13	J	102	CL7	CHC-C1C-NC	-2.63	121.09	124.80
13	B	810	CL7	CMB-C2B-C1B	2.63	129.43	125.42
13	B	830	CL7	O2D-CGD-O1D	-2.63	118.73	123.85
19	K	101	WVN	C40-C37-C34	-2.63	123.59	127.28
13	A	848	CL7	O2D-CGD-O1D	-2.63	118.73	123.85
12	A	801	G9R	C3C-C4C-NC	2.63	113.80	110.43
13	A	823	CL7	CAC-C3C-C4C	2.63	128.62	124.67
19	A	852	WVN	C40-C39-C36	-2.63	118.14	123.52
13	B	828	CL7	CMB-C2B-C1B	2.63	129.42	125.42
13	A	814	CL7	C3A-C4A-CHB	-2.62	119.80	123.66
13	A	828	CL7	C4-C3-C5	2.62	119.78	115.23
13	A	825	CL7	O2A-C1-C2	2.62	118.21	108.11
13	A	839	CL7	C3D-C4D-ND	2.62	113.86	110.20
13	A	827	CL7	O2A-C1-C2	2.62	118.21	108.11
13	B	812	CL7	CHD-C1D-ND	-2.62	120.12	124.05
13	A	855	CL7	CMA-C3A-C2A	-2.62	110.22	116.23
13	A	815	CL7	O2A-C1-C2	2.62	118.19	108.11
13	B	838	CL7	CMC-C2C-C1C	2.62	129.34	124.73
13	A	845	CL7	CMB-C2B-C1B	2.62	129.41	125.42
19	A	854	WVN	C39-C36-C32	-2.62	123.61	127.28
13	B	804	CL7	C4-C3-C5	2.62	119.77	115.23
19	L	209	WVN	C39-C40-C37	-2.62	118.17	123.52
13	B	818	CL7	C4-C3-C5	2.61	119.76	115.23
13	B	818	CL7	C1-C2-C3	-2.61	121.92	126.20
13	B	841	CL7	O1D-CGD-CBD	-2.61	119.37	124.52
13	B	822	CL7	CMA-C3A-C2A	-2.61	103.88	113.98
13	B	838	CL7	OBB-CAB-C3B	-2.61	119.73	125.62
13	A	802	CL7	C3D-C2D-C1D	-2.61	98.06	106.40
13	B	812	CL7	C3A-C4A-CHB	-2.61	119.82	123.66
13	A	831	CL7	O2D-CGD-O1D	-2.61	118.77	123.85
13	A	843	CL7	CHD-C1D-ND	-2.61	120.13	124.05
19	B	847	WVN	C02-C11-C19	-2.61	120.52	124.58
19	L	202	WVN	C26-C29-C31	-2.61	115.64	123.20
13	A	802	CL7	C1-C2-C3	-2.61	121.92	126.20
13	A	816	CL7	O2D-CGD-O1D	-2.61	118.77	123.85
13	B	841	CL7	O2D-CGD-O1D	-2.61	118.77	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	811	CL7	CMC-C2C-C1C	2.61	129.32	124.73
13	A	841	CL7	O2D-CGD-O1D	-2.61	118.78	123.85
13	J	102	CL7	C3A-C4A-CHB	-2.61	119.83	123.66
13	A	806	CL7	C1-O2A-CGA	2.60	122.96	116.65
13	J	103	CL7	CMB-C2B-C1B	2.60	129.38	125.42
13	B	804	CL7	C1-C2-C3	-2.60	121.93	126.20
13	A	830	CL7	CHD-C1D-ND	-2.60	120.14	124.05
13	A	837	CL7	C1-C2-C3	-2.60	121.94	126.20
13	L	207	CL7	C4-C3-C5	2.60	119.74	115.23
13	A	807	CL7	CMC-C2C-C1C	2.60	129.31	124.73
19	M	101	WVN	C23-C20-C13	-2.60	120.06	127.00
16	F	203	LMT	O3'-C3'-C2'	-2.60	104.26	110.38
13	B	824	CL7	CAC-C3C-C4C	2.60	128.57	124.67
13	L	205	CL7	CMC-C2C-C1C	2.59	129.30	124.73
13	I	102	CL7	O2D-CGD-O1D	-2.59	118.80	123.85
13	A	819	CL7	CHD-C1D-ND	-2.59	120.16	124.05
13	A	838	CL7	C1-C2-C3	-2.59	121.95	126.20
13	B	809	CL7	O2D-CGD-O1D	-2.59	118.80	123.85
13	A	838	CL7	C4-C3-C5	2.59	119.72	115.23
19	J	101	WVN	C38-C34-C33	2.59	122.05	118.09
13	B	815	CL7	C3D-C4D-ND	2.59	113.81	110.20
19	M	101	WVN	C39-C40-C37	-2.59	118.22	123.52
13	B	821	CL7	C3A-C4A-CHB	-2.59	119.85	123.66
19	B	847	WVN	C40-C39-C36	-2.59	118.22	123.52
13	B	803	CL7	O2D-CGD-O1D	-2.59	118.81	123.85
13	B	821	CL7	C3D-C2D-C1D	-2.59	98.14	106.40
19	A	851	WVN	C30-C33-C34	-2.59	119.27	126.36
13	A	813	CL7	CMA-C3A-C2A	-2.59	103.98	113.98
19	A	850	WVN	C21-C15-C14	2.58	119.11	113.60
13	A	855	CL7	CMC-C2C-C1C	2.58	129.28	124.73
13	K	102	CL7	O2D-CGD-O1D	-2.58	118.82	123.85
13	B	810	CL7	CHD-C1D-ND	-2.58	120.18	124.05
19	L	209	WVN	C39-C36-C32	-2.58	123.66	127.28
13	A	829	CL7	CMC-C2C-C1C	2.58	129.27	124.73
13	A	823	CL7	CMB-C2B-C1B	2.58	129.35	125.42
13	A	802	CL7	C4-C3-C5	2.58	119.70	115.23
13	B	803	CL7	CHD-C1D-ND	-2.58	120.18	124.05
13	B	826	CL7	C1-C2-C3	-2.58	121.97	126.20
13	B	802	CL7	C3D-C2D-C1D	-2.58	98.17	106.40
13	A	840	CL7	C1-O2A-CGA	2.58	122.89	116.65
13	A	848	CL7	CMB-C2B-C1B	2.58	129.34	125.42
19	L	210	WVN	C29-C31-C32	-2.58	119.30	126.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	838	CL7	O2D-CGD-O1D	-2.57	118.84	123.85
13	A	837	CL7	C3D-C2D-C1D	-2.57	98.18	106.40
13	A	837	CL7	CHD-C1D-ND	-2.57	120.19	124.05
13	B	822	CL7	CHD-C1D-ND	-2.57	120.19	124.05
13	A	807	CL7	CMA-C3A-C2A	-2.57	104.04	113.98
13	K	102	CL7	CMB-C2B-C1B	2.57	129.33	125.42
13	K	103	CL7	OBB-CAB-C3B	-2.57	119.83	125.62
13	B	823	CL7	CHD-C1D-ND	-2.57	120.20	124.05
13	B	814	CL7	CMB-C2B-C1B	2.57	129.33	125.42
13	B	819	CL7	C6-C5-C3	-2.56	107.22	113.47
14	B	844	LHG	O4-P-O5	2.56	120.00	110.95
13	B	819	CL7	CMA-C3A-C2A	-2.56	104.09	113.98
13	L	204	CL7	C3D-C2D-C1D	-2.56	98.23	106.40
12	A	801	G9R	O2D-CGD-O1D	-2.56	118.87	123.85
13	B	831	CL7	OBB-CAB-C3B	-2.56	119.85	125.62
13	B	824	CL7	OBB-CAB-C3B	-2.56	119.85	125.62
13	A	823	CL7	CED-O2D-CGD	2.56	121.71	115.92
13	B	808	CL7	CHD-C1D-ND	-2.56	120.22	124.05
13	A	822	CL7	C4-C3-C5	2.56	119.66	115.23
13	B	841	CL7	CAC-C3C-C4C	2.55	128.51	124.67
13	A	814	CL7	C3D-C2D-C1D	-2.55	98.24	106.40
14	L	208	LHG	O8-C23-C24	2.55	119.62	111.83
19	A	850	WVN	C40-C37-C34	-2.55	123.70	127.28
13	A	816	CL7	CHD-C1D-ND	-2.55	120.22	124.05
12	A	801	G9R	C4-C3-C5	2.55	119.65	115.23
13	A	818	CL7	O2D-CGD-O1D	-2.55	118.89	123.85
13	A	855	CL7	CMB-C2B-C1B	2.55	129.29	125.42
13	B	823	CL7	C1-O2A-CGA	2.54	122.81	116.65
22	B	845	K3I	C27-C26-C25	-2.54	115.83	123.20
13	A	811	CL7	C3A-C4A-CHB	-2.54	119.92	123.66
13	B	846	CL7	CHD-C1D-ND	-2.54	120.23	124.05
13	A	831	CL7	CMC-C2C-C1C	2.54	129.20	124.73
13	B	826	CL7	C3D-C2D-C1D	-2.54	98.28	106.40
13	L	201	CL7	C4-C3-C5	2.54	119.64	115.23
13	B	824	CL7	C3C-C4C-NC	2.54	112.85	110.20
13	L	201	CL7	CMB-C2B-C1B	2.54	129.28	125.42
13	B	823	CL7	CMC-C2C-C1C	2.54	129.20	124.73
13	A	814	CL7	O2D-CGD-O1D	-2.54	118.91	123.85
13	A	807	CL7	C3D-C2D-C1D	-2.54	98.30	106.40
15	B	820	PQN	C11-C12-C13	-2.54	122.46	126.83
13	B	825	CL7	O2D-CGD-O1D	-2.54	118.91	123.85
13	B	805	CL7	C3D-C2D-C1D	-2.53	98.31	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	831	CL7	C3A-C4A-CHB	-2.53	119.94	123.66
13	B	830	CL7	CMC-C2C-C1C	2.53	129.19	124.73
13	A	806	CL7	CMB-C2B-C1B	2.53	129.27	125.42
13	B	814	CL7	CHD-C1D-ND	-2.53	120.25	124.05
13	A	810	CL7	C3D-C2D-C1D	-2.53	98.32	106.40
13	A	803	CL7	C1-C2-C3	-2.53	122.05	126.20
13	A	819	CL7	O2A-C1-C2	2.53	117.84	108.11
13	K	103	CL7	CMC-C2C-C1C	2.53	129.18	124.73
13	B	831	CL7	CMB-C2B-C1B	2.53	129.27	125.42
13	B	819	CL7	C3C-C4C-NC	2.53	112.83	110.20
13	A	818	CL7	CHD-C1D-ND	-2.53	120.26	124.05
13	A	825	CL7	CMA-C3A-C2A	-2.53	104.22	113.98
13	J	102	CL7	C3D-C2D-C1D	-2.52	98.34	106.40
13	B	821	CL7	C4C-C3C-C2C	-2.52	103.79	107.11
13	L	205	CL7	O2D-CGD-O1D	-2.52	118.94	123.85
13	B	841	CL7	CMB-C2B-C1B	2.52	129.25	125.42
13	B	843	CL7	CAC-C3C-C4C	2.52	128.46	124.67
13	A	840	CL7	CMC-C2C-C1C	2.52	129.16	124.73
13	B	814	CL7	C1-O2A-CGA	2.52	122.74	116.65
13	A	846	CL7	O2D-CGD-O1D	-2.51	118.95	123.85
19	F	204	WVN	C08-C01-C02	-2.51	105.74	109.55
13	A	817	CL7	CHD-C1D-ND	-2.51	120.28	124.05
13	B	823	CL7	C3D-C2D-C1D	-2.51	98.38	106.40
13	A	807	CL7	O1D-CGD-CBD	-2.51	119.56	124.52
13	K	102	CL7	CMC-C2C-C1C	2.51	129.15	124.73
13	L	205	CL7	C1-O2A-CGA	2.51	122.73	116.65
13	B	826	CL7	CMB-C2B-C1B	2.51	129.24	125.42
13	B	821	CL7	O2A-C1-C2	2.51	117.77	108.11
13	A	809	CL7	O1D-CGD-CBD	-2.51	119.57	124.52
13	A	809	CL7	OBB-CAB-C3B	-2.51	119.96	125.62
13	B	802	CL7	C1-O2A-CGA	2.51	122.72	116.65
13	A	843	CL7	CAA-C2A-C1A	-2.51	103.94	112.19
13	A	810	CL7	CHD-C1D-ND	-2.51	120.29	124.05
13	A	818	CL7	C4-C3-C5	2.51	119.58	115.23
13	A	810	CL7	CMB-C2B-C1B	2.50	129.23	125.42
13	A	817	CL7	CMB-C2B-C1B	2.50	129.23	125.42
13	A	829	CL7	O1D-CGD-CBD	-2.50	119.58	124.52
19	K	101	WVN	C07-C01-C02	2.50	113.33	109.55
13	A	836	CL7	O2D-CGD-O1D	-2.50	118.98	123.85
19	L	210	WVN	C10-C12-C14	2.50	116.78	111.28
13	B	840	CL7	C3A-C4A-CHB	-2.50	119.98	123.66
13	A	836	CL7	CHD-C1D-ND	-2.50	120.30	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	817	CL7	CMB-C2B-C1B	2.50	129.22	125.42
13	A	825	CL7	C3A-C4A-CHB	-2.50	119.99	123.66
13	B	807	CL7	C3D-C2D-C1D	-2.50	98.42	106.40
13	A	836	CL7	C4C-C3C-C2C	-2.50	103.82	107.11
13	B	832	CL7	C4C-C3C-C2C	-2.50	103.82	107.11
13	A	815	CL7	CMC-C2C-C1C	2.50	129.13	124.73
13	A	817	CL7	C3D-C2D-C1D	-2.50	98.42	106.40
18	A	849	PHO	CMA-C3A-C4A	-2.50	109.23	114.61
13	A	841	CL7	C3D-C2D-C1D	-2.50	98.42	106.40
13	A	815	CL7	C4-C3-C5	2.50	119.56	115.23
16	F	203	LMT	O1B-C1B-C2B	2.50	114.23	108.09
13	L	201	CL7	C3A-C4A-CHB	-2.50	119.99	123.66
13	A	806	CL7	C3A-C4A-CHB	-2.49	119.99	123.66
13	B	818	CL7	CHD-C1D-ND	-2.49	120.31	124.05
13	A	817	CL7	O2A-C1-C2	2.49	117.70	108.11
13	A	808	CL7	C4-C3-C5	2.49	119.55	115.23
13	A	819	CL7	CMB-C2B-C1B	2.49	129.21	125.42
13	B	822	CL7	C3D-C4D-ND	2.49	113.67	110.20
13	A	813	CL7	CHD-C1D-ND	-2.49	120.32	124.05
19	F	204	WVN	C35-C32-C31	2.49	121.89	118.09
13	B	831	CL7	C3D-C2D-C1D	-2.49	98.46	106.40
13	B	814	CL7	C3D-C2D-C1D	-2.49	98.46	106.40
13	L	201	CL7	CHD-C1D-ND	-2.49	120.32	124.05
13	B	829	CL7	C4C-C3C-C2C	-2.48	103.84	107.11
13	L	207	CL7	C3D-C2D-C1D	-2.48	98.47	106.40
19	F	204	WVN	C19-C22-C26	-2.48	115.10	119.01
13	B	828	CL7	CMC-C2C-C1C	2.48	129.10	124.73
13	A	809	CL7	C3D-C2D-C1D	-2.48	98.47	106.40
13	B	813	CL7	C3D-C2D-C1D	-2.48	98.48	106.40
13	B	817	CL7	C3A-C4A-CHB	-2.48	120.01	123.66
13	L	205	CL7	O1D-CGD-CBD	-2.48	119.63	124.52
13	B	804	CL7	C3D-C2D-C1D	-2.48	98.49	106.40
13	A	835	CL7	C4-C3-C5	2.48	119.53	115.23
13	A	822	CL7	C4C-C3C-C2C	-2.47	103.85	107.11
13	B	816	CL7	CMC-C2C-C1C	2.47	129.08	124.73
13	A	822	CL7	CHD-C1D-ND	-2.47	120.34	124.05
13	B	815	CL7	C3D-C2D-C1D	-2.47	98.51	106.40
13	B	804	CL7	CMC-C2C-C1C	2.47	129.07	124.73
13	B	819	CL7	O2D-CGD-O1D	-2.47	119.05	123.85
13	A	846	CL7	C3D-C2D-C1D	-2.47	98.52	106.40
13	B	813	CL7	CHD-C1D-ND	-2.47	120.35	124.05
13	B	822	CL7	C3A-C4A-CHB	-2.46	120.04	123.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	832	CL7	CMB-C2B-C1B	2.46	129.17	125.42
13	A	837	CL7	O2D-CGD-O1D	-2.46	119.06	123.85
13	B	834	CL7	O2D-CGD-O1D	-2.46	119.06	123.85
13	A	812	CL7	C3A-C4A-CHB	-2.46	120.04	123.66
13	I	102	CL7	CMB-C2B-C1B	2.46	129.17	125.42
13	B	842	CL7	C4C-NC-C1C	-2.46	104.58	106.31
13	B	823	CL7	C4-C3-C5	2.46	119.50	115.23
13	A	828	CL7	C3D-C2D-C1D	-2.46	98.54	106.40
13	A	855	CL7	CAC-C3C-C4C	2.46	128.37	124.67
13	A	823	CL7	C3D-C2D-C1D	-2.46	98.54	106.40
13	F	201	CL7	C3D-C2D-C1D	-2.46	98.54	106.40
13	L	201	CL7	C3D-C2D-C1D	-2.46	98.55	106.40
13	A	855	CL7	C3D-C2D-C1D	-2.46	98.55	106.40
13	A	815	CL7	C3D-C2D-C1D	-2.46	98.55	106.40
13	A	822	CL7	CMA-C3A-C2A	-2.46	104.48	113.98
13	B	807	CL7	C4C-C3C-C2C	-2.46	103.87	107.11
13	A	812	CL7	CBA-CAA-C2A	-2.46	106.49	113.79
13	F	202	CL7	CMC-C2C-C1C	2.45	129.05	124.73
13	A	814	CL7	CMC-C2C-C1C	2.45	129.05	124.73
13	B	823	CL7	O2D-CGD-O1D	-2.45	119.08	123.85
13	J	102	CL7	C4-C3-C5	2.45	119.48	115.23
13	F	201	CL7	C4-C3-C5	2.45	119.48	115.23
13	B	810	CL7	C3D-C2D-C1D	-2.45	98.58	106.40
13	A	806	CL7	C3D-C2D-C1D	-2.45	98.58	106.40
13	B	812	CL7	C3D-C2D-C1D	-2.45	98.58	106.40
13	B	826	CL7	C4C-C3C-C2C	-2.45	103.89	107.11
13	B	843	CL7	C3D-C2D-C1D	-2.45	98.59	106.40
13	A	835	CL7	CMC-C2C-C1C	2.45	129.03	124.73
13	A	842	CL7	C3D-C2D-C1D	-2.45	98.59	106.40
16	F	203	LMT	O1B-C4'-C3'	2.44	113.44	107.23
13	B	821	CL7	CED-O2D-CGD	2.44	121.46	115.92
13	B	840	CL7	CMC-C2C-C1C	2.44	129.03	124.73
13	B	816	CL7	OBB-CAB-C3B	-2.44	120.11	125.62
13	A	808	CL7	CHD-C1D-ND	-2.44	120.39	124.05
13	A	841	CL7	CBA-CAA-C2A	2.44	121.06	113.79
13	B	841	CL7	C3D-C2D-C1D	-2.44	98.61	106.40
13	B	808	CL7	O2A-C1-C2	2.44	117.50	108.11
13	A	824	CL7	C3D-C2D-C1D	-2.44	98.61	106.40
16	K	104	LMT	O1'-C1'-C2'	2.44	111.98	108.27
19	F	204	WVN	C21-C15-C14	2.44	118.79	113.60
13	A	830	CL7	C3D-C2D-C1D	-2.44	98.62	106.40
13	A	839	CL7	CMC-C2C-C1C	2.44	129.02	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	806	CL7	O2D-CGD-O1D	-2.44	119.11	123.85
13	B	806	CL7	C3D-C2D-C1D	-2.44	98.62	106.40
19	L	210	WVN	C29-C26-C22	-2.44	123.86	127.28
13	A	825	CL7	OBB-CAB-C3B	-2.43	120.13	125.62
13	A	822	CL7	C3D-C2D-C1D	-2.43	98.63	106.40
13	A	803	CL7	C3D-C2D-C1D	-2.43	98.63	106.40
13	B	803	CL7	C3D-C2D-C1D	-2.43	98.63	106.40
13	B	808	CL7	C3D-C2D-C1D	-2.43	98.63	106.40
13	A	842	CL7	OBB-CAB-C3B	-2.43	120.13	125.62
13	A	804	CL7	C3D-C2D-C1D	-2.43	98.64	106.40
19	M	101	WVN	C29-C26-C22	-2.43	123.87	127.28
13	A	848	CL7	C3D-C2D-C1D	-2.43	98.64	106.40
13	A	822	CL7	CMB-C2B-C1B	2.43	129.12	125.42
19	K	101	WVN	C06-C13-C15	-2.43	119.32	122.64
13	B	814	CL7	O2D-CGD-O1D	-2.43	119.12	123.85
13	B	837	CL7	C3D-C2D-C1D	-2.43	98.65	106.40
13	A	818	CL7	C3D-C2D-C1D	-2.43	98.65	106.40
19	A	850	WVN	C07-C01-C02	-2.43	105.87	109.55
13	B	822	CL7	CHD-C4C-C3C	-2.42	121.03	124.86
13	B	817	CL7	C3D-C2D-C1D	-2.42	98.66	106.40
13	A	832	CL7	C2A-C1A-CHA	-2.42	121.52	126.36
13	A	838	CL7	C3D-C2D-C1D	-2.42	98.67	106.40
19	K	101	WVN	C29-C31-C32	-2.42	119.73	126.36
13	B	846	CL7	C3D-C2D-C1D	-2.42	98.68	106.40
13	B	819	CL7	CAA-CBA-CGA	-2.42	106.35	113.21
13	A	842	CL7	C1-C2-C3	-2.42	122.24	126.20
13	A	804	CL7	C4-C3-C5	2.42	119.42	115.23
13	A	825	CL7	C3D-C2D-C1D	-2.41	98.69	106.40
13	L	205	CL7	C4-C3-C5	2.41	119.42	115.23
13	A	843	CL7	C1-O2A-CGA	2.41	122.50	116.65
13	A	811	CL7	CMC-C2C-C1C	2.41	128.98	124.73
13	B	802	CL7	CHD-C1D-ND	-2.41	120.43	124.05
13	L	204	CL7	O2D-CGD-O1D	-2.41	119.15	123.85
13	A	809	CL7	CHD-C4C-NC	-2.41	121.41	124.80
13	A	838	CL7	CMB-C2B-C1B	2.41	129.09	125.42
13	A	808	CL7	CMB-C2B-C1B	2.41	129.09	125.42
13	A	842	CL7	CMC-C2C-C1C	2.41	128.97	124.73
13	B	810	CL7	CMC-C2C-C1C	2.41	128.97	124.73
13	L	201	CL7	CAC-C3C-C4C	2.41	128.29	124.67
13	J	102	CL7	CBC-CAC-C3C	-2.41	105.89	112.42
13	B	841	CL7	CHC-C1C-NC	-2.41	121.41	124.80
13	F	206	CL7	C3D-C2D-C1D	-2.41	98.71	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	I	102	CL7	C3D-C2D-C1D	-2.41	98.72	106.40
13	A	835	CL7	C3D-C2D-C1D	-2.41	98.72	106.40
13	A	836	CL7	C3D-C2D-C1D	-2.40	98.72	106.40
13	K	102	CL7	C3D-C2D-C1D	-2.40	98.72	106.40
13	A	836	CL7	C4-C3-C5	2.40	119.40	115.23
19	F	205	WVN	C29-C31-C32	-2.40	119.78	126.36
13	B	811	CL7	C3D-C2D-C1D	-2.40	98.73	106.40
13	B	832	CL7	C3D-C2D-C1D	-2.40	98.73	106.40
13	B	828	CL7	C3D-C2D-C1D	-2.40	98.74	106.40
13	B	816	CL7	C3D-C2D-C1D	-2.40	98.74	106.40
13	A	816	CL7	C3D-C2D-C1D	-2.40	98.74	106.40
13	K	103	CL7	CBD-CHA-C4D	2.40	109.00	105.53
18	B	801	PHO	CMA-C3A-C4A	-2.40	109.45	114.61
13	A	807	CL7	C3A-C4A-CHB	-2.40	120.14	123.66
13	B	818	CL7	C3A-C4A-CHB	-2.39	120.14	123.66
13	A	805	CL7	C4C-C3C-C2C	-2.39	103.96	107.11
13	A	845	CL7	C3D-C2D-C1D	-2.39	98.76	106.40
19	F	205	WVN	C20-C13-C15	-2.39	116.05	121.56
13	A	812	CL7	O2D-CGD-O1D	-2.39	119.20	123.85
19	A	853	WVN	C14-C15-C13	-2.39	119.48	122.70
13	B	818	CL7	C1-O2A-CGA	2.39	122.43	116.65
13	A	837	CL7	C4-C3-C5	2.39	119.37	115.23
19	M	101	WVN	C16-C05-C09	-2.39	114.35	122.37
13	B	824	CL7	O2D-CGD-O1D	-2.39	119.20	123.85
13	A	830	CL7	OBB-CAB-C3B	-2.39	120.23	125.62
19	F	205	WVN	C35-C32-C36	-2.39	118.95	122.82
13	A	827	CL7	C3D-C2D-C1D	-2.38	98.78	106.40
19	L	210	WVN	C28-C30-C33	-2.38	116.29	123.20
19	A	851	WVN	C19-C22-C26	2.38	122.76	119.01
13	A	828	CL7	CMC-C2C-C1C	2.38	128.92	124.73
13	A	839	CL7	C3D-C2D-C1D	-2.38	98.80	106.40
19	J	101	WVN	C30-C28-C25	-2.38	123.94	127.28
13	B	811	CL7	CMB-C2B-C1B	2.38	129.04	125.42
13	B	825	CL7	C3D-C2D-C1D	-2.38	98.80	106.40
13	A	812	CL7	CMC-C2C-C1C	2.38	128.92	124.73
13	A	817	CL7	C3A-C4A-CHB	-2.38	120.17	123.66
13	B	813	CL7	C4C-C3C-C2C	-2.38	103.98	107.11
15	A	826	PQN	C2M-C2-C3	-2.38	120.55	124.45
13	B	816	CL7	CMB-C2B-C1B	2.37	129.03	125.42
13	A	809	CL7	CMC-C2C-C1C	2.37	128.91	124.73
13	A	807	CL7	OBB-CAB-C3B	-2.37	120.26	125.62
13	J	103	CL7	C3D-C2D-C1D	-2.37	98.82	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	104	WVN	C26-C29-C31	-2.37	116.33	123.20
12	A	801	G9R	C2B-C1B-NB	2.37	112.78	110.33
13	A	802	CL7	O2D-CGD-O1D	-2.37	119.23	123.85
13	A	828	CL7	O2D-CGD-O1D	-2.37	119.23	123.85
19	L	209	WVN	C19-C22-C26	-2.37	115.28	119.01
13	B	805	CL7	CAC-C3C-C4C	2.37	128.23	124.67
19	I	101	WVN	C23-C25-C28	-2.37	115.29	119.01
19	I	101	WVN	C21-C15-C14	2.37	118.64	113.60
13	L	204	CL7	O1D-CGD-CBD	-2.37	119.85	124.52
13	B	833	CL7	C3D-C2D-C1D	-2.36	98.85	106.40
13	A	843	CL7	C4-C3-C5	2.36	120.03	114.59
13	A	848	CL7	CMC-C2C-C1C	2.36	128.89	124.73
19	B	847	WVN	C21-C15-C14	2.36	118.64	113.60
13	F	206	CL7	CMB-C2B-C1B	2.36	129.02	125.42
13	F	202	CL7	C3D-C2D-C1D	-2.36	98.85	106.40
13	A	817	CL7	CED-O2D-CGD	2.36	121.27	115.92
19	A	850	WVN	C38-C34-C33	2.36	121.70	118.09
13	A	829	CL7	C3D-C2D-C1D	-2.36	98.86	106.40
13	A	811	CL7	C3D-C2D-C1D	-2.36	98.87	106.40
22	B	845	K3I	C21-C15-C14	-2.36	118.70	123.52
13	B	804	CL7	C3D-C4D-ND	2.35	113.48	110.20
13	B	843	CL7	OBB-CAB-C3B	-2.35	120.31	125.62
13	A	813	CL7	C3A-C4A-CHB	-2.35	120.20	123.66
13	B	829	CL7	CHD-C4C-NC	-2.35	121.49	124.80
13	A	809	CL7	CAC-C3C-C4C	2.35	128.21	124.67
22	B	845	K3I	C17-C1-C6	-2.35	106.56	110.24
13	A	805	CL7	C3D-C2D-C1D	-2.35	98.89	106.40
13	B	846	CL7	OBB-CAB-C3B	-2.35	120.32	125.62
13	B	826	CL7	CMC-C2C-C1C	2.35	128.86	124.73
15	A	826	PQN	C12-C11-C3	-2.35	106.30	112.08
13	B	834	CL7	C3D-C2D-C1D	-2.35	98.90	106.40
13	B	809	CL7	C3D-C2D-C1D	-2.35	98.90	106.40
13	B	805	CL7	O2D-CGD-O1D	-2.35	119.28	123.85
19	F	204	WVN	C01-C02-C11	-2.35	110.13	112.83
13	B	830	CL7	C3D-C2D-C1D	-2.35	98.91	106.40
19	J	101	WVN	C23-C20-C13	-2.35	120.73	127.00
13	B	810	CL7	C4C-C3C-C2C	-2.34	104.02	107.11
13	F	206	CL7	CMC-C2C-C1C	2.34	128.86	124.73
13	L	207	CL7	CMB-C2B-C1B	2.34	128.99	125.42
13	B	805	CL7	O2A-C1-C2	2.34	117.12	108.11
13	A	831	CL7	C3D-C2D-C1D	-2.34	98.92	106.40
13	A	803	CL7	CMB-C2B-C1B	2.34	128.99	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	K	103	CL7	CAC-C3C-C4C	2.34	128.19	124.67
13	A	817	CL7	C1-C2-C3	-2.34	122.36	126.20
13	B	807	CL7	C3A-C4A-CHB	-2.34	120.22	123.66
13	A	836	CL7	CMB-C2B-C1B	2.34	128.98	125.42
13	A	812	CL7	C3D-C2D-C1D	-2.34	98.93	106.40
13	B	802	CL7	O1D-CGD-CBD	-2.34	119.91	124.52
13	A	843	CL7	C3D-C2D-C1D	-2.34	98.94	106.40
13	A	822	CL7	CED-O2D-CGD	2.34	121.21	115.92
13	A	846	CL7	CHC-C1C-C2C	-2.34	120.63	125.49
13	A	832	CL7	O2A-C1-C2	2.33	117.09	108.11
13	B	829	CL7	OBB-CAB-C3B	-2.33	120.35	125.62
13	A	815	CL7	C1-O2A-CGA	2.33	122.30	116.65
19	A	852	WVN	C02-C11-C19	-2.33	120.95	124.58
19	J	104	WVN	C20-C13-C15	-2.33	116.18	121.56
13	A	855	CL7	C4C-C3C-C2C	-2.33	104.04	107.11
13	B	805	CL7	C3A-C4A-CHB	-2.33	120.23	123.66
13	A	815	CL7	CHD-C1D-ND	-2.33	120.55	124.05
13	B	815	CL7	CAC-C3C-C4C	2.33	128.17	124.67
13	B	840	CL7	C3D-C2D-C1D	-2.33	98.96	106.40
13	B	807	CL7	C4-C3-C5	2.33	119.95	114.59
13	A	803	CL7	C4-C3-C5	2.33	119.27	115.23
20	L	203	LMG	O1-C1-C2	2.33	111.81	108.27
13	L	207	CL7	C1-O2A-CGA	2.33	122.28	116.65
19	L	210	WVN	C08-C01-C02	-2.32	106.03	109.55
13	B	819	CL7	C3D-C2D-C1D	-2.32	98.99	106.40
19	L	209	WVN	C30-C28-C25	-2.32	124.03	127.28
13	B	843	CL7	C4C-C3C-C2C	-2.32	104.05	107.11
13	B	817	CL7	C4-C3-C5	2.32	119.93	114.59
13	B	846	CL7	CMC-C2C-C1C	2.32	128.81	124.73
13	A	832	CL7	C3D-C2D-C1D	-2.32	99.00	106.40
13	A	806	CL7	C4-C3-C5	2.32	119.25	115.23
13	B	832	CL7	CAC-C3C-C4C	2.32	128.16	124.67
13	A	830	CL7	O1D-CGD-CBD	-2.32	119.95	124.52
13	B	804	CL7	CHD-C1D-ND	-2.32	120.57	124.05
13	A	840	CL7	C3D-C2D-C1D	-2.31	99.01	106.40
13	B	802	CL7	CHC-C1C-NC	-2.31	121.55	124.80
13	A	810	CL7	OBB-CAB-C3B	-2.31	120.40	125.62
13	A	808	CL7	C3D-C2D-C1D	-2.31	99.01	106.40
13	B	814	CL7	C4-C3-C5	2.31	119.24	115.23
13	A	819	CL7	C3D-C2D-C1D	-2.31	99.02	106.40
13	B	837	CL7	CMB-C2B-C1B	2.31	128.94	125.42
13	A	817	CL7	C4C-C3C-C2C	-2.31	104.06	107.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	821	CL7	CAC-C3C-C4C	2.31	128.15	124.67
13	A	813	CL7	OBD-CAD-C3D	-2.31	123.02	128.42
13	B	810	CL7	CAC-C3C-C4C	2.31	128.14	124.67
19	L	202	WVN	C10-C12-C14	2.30	116.34	111.28
13	A	803	CL7	CMC-C2C-C1C	2.30	128.78	124.73
13	B	806	CL7	CMA-C3A-C2A	-2.30	105.08	113.98
19	I	101	WVN	C17-C06-C13	-2.30	106.64	110.24
13	A	813	CL7	CMB-C2B-C1B	2.30	128.92	125.42
13	K	103	CL7	C3D-C2D-C1D	-2.30	99.07	106.40
13	B	832	CL7	CBA-CAA-C2A	-2.29	106.97	113.79
13	A	843	CL7	CHC-C1C-NC	-2.29	121.58	124.80
13	A	825	CL7	CMC-C2C-C1C	2.29	128.76	124.73
13	A	814	CL7	C1-C2-C3	-2.29	122.44	126.20
19	L	210	WVN	C30-C28-C25	-2.29	124.07	127.28
13	A	806	CL7	O1D-CGD-CBD	-2.29	120.00	124.52
19	A	850	WVN	C08-C01-C02	2.29	113.01	109.55
13	A	835	CL7	C1-C2-C3	-2.28	122.46	126.20
13	A	830	CL7	C4C-C3C-C2C	-2.28	104.11	107.11
13	B	824	CL7	C3D-C2D-C1D	-2.28	99.13	106.40
13	A	812	CL7	CAC-C3C-C4C	2.27	128.09	124.67
13	A	804	CL7	O1D-CGD-CBD	-2.27	120.04	124.52
13	B	809	CL7	CMB-C2B-C1B	2.27	128.88	125.42
19	L	209	WVN	C29-C26-C22	-2.27	124.09	127.28
19	M	101	WVN	C24-C22-C19	2.27	121.56	118.09
13	A	830	CL7	CMB-C2B-C1B	2.27	128.87	125.42
13	B	842	CL7	C3A-C4A-NA	2.27	113.94	111.46
13	A	815	CL7	C4C-C3C-C2C	-2.27	104.12	107.11
13	F	201	CL7	OBB-CAB-C3B	-2.27	120.50	125.62
13	B	841	CL7	CHD-C1D-ND	-2.27	120.65	124.05
13	B	834	CL7	CMB-C2B-C1B	2.27	128.87	125.42
13	B	837	CL7	OBB-CAB-C3B	-2.27	120.51	125.62
13	B	818	CL7	CMC-C2C-C1C	2.26	128.72	124.73
13	A	804	CL7	CMB-C2B-C1B	2.26	128.87	125.42
13	B	804	CL7	OBB-CAB-C3B	-2.26	120.51	125.62
13	A	812	CL7	CED-O2D-CGD	2.26	121.05	115.92
13	A	803	CL7	C6-C5-C3	-2.26	107.96	113.47
19	A	853	WVN	C10-C06-C13	2.26	113.72	110.44
13	B	815	CL7	CED-O2D-CGD	2.26	121.04	115.92
19	M	101	WVN	C21-C15-C14	2.26	118.41	113.60
13	B	826	CL7	C3A-C4A-CHB	-2.26	120.34	123.66
16	A	844	LMT	C1-O1'-C1'	2.26	117.54	113.68
13	B	806	CL7	O2D-CGD-O1D	-2.26	119.45	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	806	CL7	O2A-C1-C2	2.26	116.79	108.11
13	B	840	CL7	CMB-C2B-C1B	2.25	128.85	125.42
13	B	815	CL7	C1-O2A-CGA	2.25	122.10	116.65
20	L	203	LMG	C3-C4-C5	2.25	114.32	110.23
13	B	806	CL7	C2A-C1A-CHA	-2.25	121.86	126.36
13	B	826	CL7	CAC-C3C-C4C	2.25	128.06	124.67
13	F	201	CL7	C4C-C3C-C2C	-2.25	104.15	107.11
13	B	813	CL7	O1D-CGD-CBD	-2.25	120.08	124.52
13	B	806	CL7	C4C-C3C-C2C	-2.25	104.15	107.11
13	A	829	CL7	OBB-CAB-C3B	-2.25	120.55	125.62
13	B	822	CL7	C4C-C3C-C2C	-2.25	104.15	107.11
13	B	815	CL7	C4B-C3B-C2B	-2.25	104.51	107.30
13	B	842	CL7	C1B-NB-C4B	2.24	107.89	106.31
13	A	805	CL7	CMC-C2C-C1C	2.24	128.68	124.73
13	B	846	CL7	CBC-CAC-C3C	-2.24	106.34	112.42
19	L	209	WVN	C11-C19-C22	-2.24	121.50	126.32
13	A	816	CL7	C4-C3-C5	2.24	119.74	114.59
19	A	853	WVN	C39-C40-C37	-2.24	118.94	123.52
13	B	846	CL7	C3C-C4C-NC	2.24	112.53	110.20
13	A	805	CL7	CAA-C2A-C3A	-2.24	106.96	113.00
12	A	801	G9R	CMA-C3A-C2A	-2.23	105.34	113.98
19	J	104	WVN	C40-C37-C34	-2.23	124.15	127.28
13	A	815	CL7	CMB-C2B-C1B	2.23	128.82	125.42
13	A	813	CL7	C4C-C3C-C2C	-2.23	104.17	107.11
13	B	809	CL7	C4C-C3C-C2C	-2.23	104.17	107.11
13	A	836	CL7	CHC-C1C-NC	-2.23	121.66	124.80
13	B	814	CL7	C3A-C4A-CHB	-2.23	120.38	123.66
13	A	814	CL7	CMB-C2B-C1B	2.23	128.81	125.42
13	B	823	CL7	CED-O2D-CGD	2.23	120.97	115.92
13	A	819	CL7	O2D-CGD-O1D	-2.23	119.51	123.85
13	A	845	CL7	C4-C3-C5	2.23	119.71	114.59
13	B	816	CL7	C4-C3-C5	2.23	119.71	114.59
13	A	812	CL7	C4C-C3C-C2C	-2.23	104.18	107.11
13	A	809	CL7	C4C-C3C-C2C	-2.22	104.18	107.11
13	B	806	CL7	CAD-C3D-C2D	-2.22	139.58	144.26
13	B	829	CL7	C3D-C2D-C1D	-2.22	99.30	106.40
15	B	820	PQN	C2M-C2-C3	-2.22	120.80	124.45
13	B	819	CL7	O1D-CGD-CBD	-2.22	120.14	124.52
19	J	101	WVN	C07-C01-C02	2.22	112.91	109.55
13	B	808	CL7	CMB-C2B-C1B	2.22	128.80	125.42
13	B	815	CL7	C4-C3-C5	2.22	119.08	115.23
13	B	843	CL7	CMB-C2B-C1B	2.22	128.80	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	824	CL7	O1D-CGD-CBD	-2.22	120.14	124.52
13	A	813	CL7	C4-C3-C5	2.22	119.69	114.59
13	B	825	CL7	CED-O2D-CGD	2.22	120.95	115.92
13	A	804	CL7	C4C-C3C-C2C	-2.22	104.19	107.11
13	B	829	CL7	CMC-C2C-C3C	2.22	132.14	126.15
13	F	202	CL7	OBB-CAB-C3B	-2.22	120.62	125.62
13	A	823	CL7	C4C-C3C-C2C	-2.21	104.19	107.11
13	B	846	CL7	CMB-C2B-C1B	2.21	128.79	125.42
13	A	816	CL7	C4C-C3C-C2C	-2.21	104.19	107.11
13	A	812	CL7	C1-C2-C3	-2.21	122.57	126.20
13	A	802	CL7	CHC-C1C-NC	-2.21	121.69	124.80
13	B	806	CL7	CAC-C3C-C4C	2.21	128.00	124.67
13	A	817	CL7	O2D-CGD-O1D	-2.21	119.55	123.85
13	A	825	CL7	C4C-C3C-C2C	-2.21	104.20	107.11
13	A	841	CL7	C4C-C3C-C2C	-2.21	104.20	107.11
13	B	813	CL7	CMC-C2C-C1C	2.21	128.61	124.73
19	A	851	WVN	C38-C34-C37	-2.20	119.25	122.82
19	J	101	WVN	C28-C30-C33	-2.20	116.82	123.20
13	B	838	CL7	C3D-C2D-C1D	-2.20	99.37	106.40
13	A	832	CL7	C1-C2-C3	2.20	129.80	126.20
13	B	846	CL7	C3A-C4A-CHB	-2.20	120.42	123.66
13	A	803	CL7	C4C-C3C-C2C	-2.20	104.21	107.11
13	A	808	CL7	O2D-CGD-O1D	-2.20	119.57	123.85
15	B	820	PQN	C14-C13-C15	2.20	119.05	115.23
13	B	805	CL7	C1-C2-C3	-2.20	122.59	126.20
13	B	838	CL7	CAC-C3C-C4C	2.20	127.97	124.67
13	A	808	CL7	C4C-C3C-C2C	-2.19	104.22	107.11
13	B	833	CL7	CMC-C2C-C1C	2.19	128.59	124.73
13	B	823	CL7	OBD-CAD-C3D	-2.19	123.29	128.42
19	A	851	WVN	C39-C36-C32	-2.19	124.20	127.28
13	B	823	CL7	C3A-C4A-CHB	-2.19	120.44	123.66
13	A	842	CL7	C4-C3-C5	2.19	119.03	115.23
13	A	836	CL7	CED-O2D-CGD	2.19	120.89	115.92
13	A	810	CL7	CAC-C3C-C4C	2.19	127.96	124.67
13	A	840	CL7	CAC-C3C-C4C	2.19	127.96	124.67
13	B	826	CL7	C4-C3-C2	-2.19	118.01	123.63
13	A	817	CL7	C4-C3-C2	-2.19	118.01	123.63
13	L	201	CL7	CHC-C1C-C2C	-2.19	120.94	125.49
13	A	832	CL7	CHD-C1D-ND	-2.19	120.77	124.05
13	A	805	CL7	CMA-C3A-C2A	-2.18	105.54	113.98
13	B	814	CL7	C4C-C3C-C2C	-2.18	104.23	107.11
19	A	850	WVN	C39-C40-C37	-2.18	119.05	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B	834	CL7	C4C-C3C-C2C	-2.18	104.23	107.11
13	A	804	CL7	OBB-CAB-C3B	-2.18	120.70	125.62
19	M	101	WVN	C26-C29-C31	-2.18	116.88	123.20
13	A	811	CL7	CAC-C3C-C4C	2.18	127.95	124.67
13	A	819	CL7	CAC-C3C-C4C	2.18	127.95	124.67
13	F	206	CL7	C4C-C3C-C2C	-2.18	104.24	107.11
13	J	103	CL7	CAC-C3C-C4C	2.18	127.94	124.67
13	A	843	CL7	OBB-CAB-C3B	-2.18	120.71	125.62
19	A	852	WVN	C29-C31-C32	-2.17	120.40	126.36
13	A	827	CL7	C4C-C3C-C2C	-2.17	104.25	107.11
13	B	840	CL7	OBB-CAB-C3B	-2.17	120.72	125.62
13	B	802	CL7	C3A-C4A-CHB	-2.17	120.47	123.66
13	B	802	CL7	C4C-C3C-C2C	-2.17	104.25	107.11
19	A	850	WVN	C24-C22-C19	2.17	121.40	118.09
13	A	818	CL7	C3A-C4A-CHB	-2.17	120.47	123.66
13	A	815	CL7	C1-C2-C3	-2.17	122.64	126.20
13	B	829	CL7	CAA-C2A-C3A	-2.17	107.14	113.00
13	A	823	CL7	C4-C3-C5	2.17	118.99	115.23
13	J	102	CL7	C4B-CHC-C1C	2.17	131.35	124.66
19	A	851	WVN	C16-C05-C09	-2.17	115.09	122.37
13	B	828	CL7	C1-O2A-CGA	2.16	121.89	116.65
13	A	814	CL7	C4C-C3C-C2C	-2.16	104.26	107.11
20	L	203	LMG	C1-O6-C5	-2.16	109.50	113.72
13	A	813	CL7	O1D-CGD-CBD	-2.16	120.26	124.52
13	B	818	CL7	CHC-C1C-C2C	-2.16	121.00	125.49
13	B	818	CL7	C3D-C2D-C1D	-2.16	99.51	106.40
19	A	853	WVN	C35-C32-C31	2.16	121.38	118.09
13	B	804	CL7	CED-O2D-CGD	2.16	120.81	115.92
13	A	842	CL7	O2D-CGD-O1D	-2.16	119.65	123.85
19	B	847	WVN	C30-C28-C25	-2.15	124.26	127.28
19	J	104	WVN	C39-C40-C37	-2.15	119.11	123.52
13	A	836	CL7	C1-O2A-CGA	2.15	121.87	116.65
13	A	829	CL7	C4-C3-C5	2.15	119.55	114.59
13	B	831	CL7	C1-O2A-CGA	2.15	121.86	116.65
13	B	823	CL7	CAC-C3C-C4C	2.15	127.91	124.67
13	B	843	CL7	O2D-CGD-O1D	-2.15	119.66	123.85
19	J	101	WVN	C10-C12-C14	2.15	116.00	111.28
13	A	813	CL7	CAD-C3D-C2D	-2.15	139.74	144.26
13	B	807	CL7	C2B-C1B-NB	2.15	112.55	110.33
13	A	805	CL7	CAC-C3C-C4C	2.14	127.89	124.67
13	A	828	CL7	C4C-C3C-C2C	-2.14	104.29	107.11
19	L	209	WVN	C38-C34-C33	2.14	121.36	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L	201	CL7	CMC-C2C-C1C	2.14	128.49	124.73
13	B	821	CL7	CAD-C3D-C2D	-2.14	139.76	144.26
13	B	833	CL7	O2D-CGD-O1D	-2.14	119.69	123.85
13	B	814	CL7	CHC-C1C-NC	-2.14	121.80	124.80
14	A	821	LHG	O8-C23-O10	-2.14	118.28	123.63
13	B	832	CL7	CMC-C2C-C1C	2.14	128.49	124.73
19	L	209	WVN	C29-C31-C32	-2.13	120.51	126.36
13	A	830	CL7	CMC-C2C-C1C	2.13	128.49	124.73
13	A	828	CL7	OBB-CAB-C3B	-2.13	120.81	125.62
13	B	840	CL7	CAC-C3C-C4C	2.13	127.88	124.67
13	B	840	CL7	O2D-CGD-O1D	-2.13	119.70	123.85
13	B	812	CL7	C1-C2-C3	-2.13	122.70	126.20
13	B	846	CL7	CAD-C3D-C2D	-2.13	139.77	144.26
13	B	822	CL7	CHC-C1C-NC	-2.13	121.80	124.80
13	L	205	CL7	C3A-C4A-CHB	-2.13	120.53	123.66
13	B	828	CL7	C4C-C3C-C2C	-2.13	104.31	107.11
13	A	840	CL7	C4C-C3C-C2C	-2.13	104.31	107.11
19	F	204	WVN	C10-C12-C14	2.13	115.95	111.28
19	A	853	WVN	C21-C15-C14	2.13	118.13	113.60
13	B	830	CL7	O1D-CGD-CBD	-2.13	120.32	124.52
13	B	831	CL7	CHC-C1C-NC	-2.12	121.81	124.80
13	A	806	CL7	C4C-C3C-C2C	-2.12	104.31	107.11
13	B	822	CL7	O1D-CGD-CBD	-2.12	120.33	124.52
13	A	806	CL7	CED-O2D-CGD	2.12	120.73	115.92
13	A	839	CL7	O1D-CGD-CBD	-2.12	120.33	124.52
13	B	805	CL7	O1D-CGD-CBD	-2.12	120.34	124.52
19	L	209	WVN	C40-C39-C36	-2.12	119.18	123.52
19	A	853	WVN	C28-C30-C33	-2.12	117.06	123.20
13	I	102	CL7	C4C-C3C-C2C	-2.12	104.32	107.11
13	B	837	CL7	C4-C3-C5	2.12	119.46	114.59
13	L	201	CL7	OBB-CAB-C3B	-2.12	120.85	125.62
13	B	832	CL7	C4-C3-C5	2.11	119.46	114.59
13	B	808	CL7	C1-O2A-CGA	2.11	121.77	116.65
19	I	101	WVN	C33-C34-C37	-2.11	115.69	119.01
13	F	201	CL7	CMB-C2B-C1B	2.11	128.64	125.42
13	B	815	CL7	CHD-C4C-NC	-2.11	121.83	124.80
13	B	819	CL7	CMC-C2C-C1C	2.11	128.45	124.73
13	A	827	CL7	CAC-C3C-C4C	2.11	127.84	124.67
13	A	846	CL7	CAD-C3D-C2D	-2.11	139.82	144.26
13	A	846	CL7	CAC-C3C-C4C	2.11	127.84	124.67
13	B	803	CL7	C3A-C4A-CHB	-2.11	120.56	123.66
13	B	821	CL7	CHC-C1C-NC	-2.11	121.84	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	815	CL7	CAD-C3D-C2D	-2.11	139.83	144.26
13	A	803	CL7	O1D-CGD-CBD	-2.11	120.37	124.52
13	A	836	CL7	OBD-CAD-C3D	-2.10	123.50	128.42
13	I	102	CL7	CHC-C1C-C2C	-2.10	121.11	125.49
19	F	205	WVN	C40-C39-C36	-2.10	119.22	123.52
13	A	818	CL7	CHC-C1C-NC	-2.10	121.84	124.80
13	F	201	CL7	CHC-C1C-NC	-2.10	121.84	124.80
13	A	843	CL7	O1D-CGD-CBD	-2.10	120.37	124.52
13	B	831	CL7	C4-C3-C5	2.10	119.42	114.59
13	B	828	CL7	O1D-CGD-CBD	-2.10	120.38	124.52
13	B	804	CL7	CHC-C1C-NC	-2.10	121.85	124.80
22	B	845	K3I	C41-C33-C34	2.10	118.28	114.42
13	B	815	CL7	O1D-CGD-CBD	-2.10	120.39	124.52
13	L	204	CL7	CMB-C2B-C1B	2.10	128.61	125.42
13	B	815	CL7	CHC-C1C-C2C	-2.09	121.13	125.49
13	I	102	CL7	O1D-CGD-CBD	-2.09	120.39	124.52
13	B	815	CL7	OBD-CAD-C3D	-2.09	123.53	128.42
13	A	805	CL7	CMB-C2B-C1B	2.09	128.60	125.42
13	B	818	CL7	C2A-C1A-CHA	-2.09	122.18	126.36
19	A	850	WVN	C30-C28-C25	-2.09	124.35	127.28
19	A	852	WVN	C06-C13-C15	-2.09	119.78	122.64
22	B	845	K3I	C10-C11-C12	-2.09	117.15	123.20
13	A	809	CL7	CAA-C2A-C3A	-2.09	107.36	113.00
13	A	846	CL7	O1D-CGD-CBD	-2.09	120.40	124.52
13	B	837	CL7	C4C-C3C-C2C	-2.09	104.36	107.11
13	L	201	CL7	O2A-C1-C2	2.09	116.13	108.11
13	A	811	CL7	C4-C3-C5	2.08	118.84	115.23
13	B	840	CL7	C2A-C1A-CHA	-2.08	122.19	126.36
15	B	820	PQN	C11-C3-C2	-2.08	121.32	124.89
13	A	841	CL7	CMB-C2B-C1B	2.08	128.59	125.42
19	L	202	WVN	C28-C30-C33	-2.08	117.17	123.20
13	L	204	CL7	C4C-C3C-C2C	-2.08	104.37	107.11
19	J	101	WVN	C33-C34-C37	-2.08	115.74	119.01
13	A	843	CL7	C4C-C3C-C2C	-2.08	104.37	107.11
19	I	101	WVN	C39-C36-C32	-2.08	124.36	127.28
19	A	853	WVN	C11-C19-C22	-2.08	121.85	126.32
19	J	101	WVN	C27-C25-C23	2.08	121.26	118.09
13	A	822	CL7	CHC-C1C-C2C	-2.08	121.17	125.49
13	B	833	CL7	CAA-C2A-C3A	-2.08	107.39	113.00
13	B	805	CL7	C4-C3-C5	2.08	118.83	115.23
13	A	840	CL7	CED-O2D-CGD	2.07	120.62	115.92
13	B	833	CL7	CHC-C1C-C2C	-2.07	121.17	125.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A	805	CL7	C7-C6-C5	-2.07	107.73	113.26
13	B	833	CL7	OBB-CAB-C3B	-2.07	120.94	125.62
13	L	201	CL7	O1D-CGD-CBD	-2.07	120.43	124.52
13	B	802	CL7	C7-C6-C5	-2.07	107.74	113.26
13	A	806	CL7	CHC-C1C-NC	-2.07	121.89	124.80
13	A	842	CL7	CMB-C2B-C1B	2.07	128.57	125.42
13	A	831	CL7	CMB-C2B-C1B	2.07	128.57	125.42
13	A	810	CL7	C4C-C3C-C2C	-2.07	104.38	107.11
13	A	819	CL7	C4C-C3C-C2C	-2.07	104.38	107.11
19	B	847	WVN	C29-C31-C32	-2.07	120.69	126.36
13	B	811	CL7	C4C-C3C-C2C	-2.07	104.39	107.11
13	B	818	CL7	CMB-C2B-C1B	2.07	128.57	125.42
13	B	812	CL7	C4B-CHC-C1C	2.07	131.04	124.66
13	A	848	CL7	O1D-CGD-CBD	-2.07	120.44	124.52
13	A	842	CL7	CED-O2D-CGD	2.06	120.60	115.92
13	B	806	CL7	CHC-C1C-NC	-2.06	121.90	124.80
19	L	202	WVN	C20-C13-C15	-2.06	116.80	121.56
19	M	101	WVN	C31-C32-C36	-2.06	115.76	119.01
13	A	839	CL7	C4-C3-C5	2.06	118.81	115.23
13	A	848	CL7	C4C-C3C-C2C	-2.06	104.39	107.11
13	B	816	CL7	C4C-C3C-C2C	-2.06	104.39	107.11
19	B	848	WVN	C02-C11-C19	2.06	127.79	124.58
13	A	811	CL7	C4C-C3C-C2C	-2.06	104.39	107.11
13	A	808	CL7	CHC-C1C-NC	-2.06	121.90	124.80
12	A	801	G9R	CED-O2D-CGD	2.06	120.59	115.92
13	B	831	CL7	O1D-CGD-CBD	-2.06	120.46	124.52
16	A	844	LMT	O1'-C1'-C2'	2.06	111.40	108.27
13	F	202	CL7	C4C-C3C-C2C	-2.06	104.40	107.11
19	L	202	WVN	C24-C22-C26	-2.06	119.48	122.82
13	B	811	CL7	CED-O2D-CGD	2.06	120.58	115.92
13	A	835	CL7	CMB-C2B-C1B	2.06	128.55	125.42
13	B	811	CL7	CAC-C3C-C4C	2.06	127.76	124.67
13	A	808	CL7	CED-O2D-CGD	2.06	120.58	115.92
13	A	827	CL7	CHC-C1C-NC	-2.06	121.91	124.80
13	B	833	CL7	CAC-C3C-C4C	2.05	127.76	124.67
13	B	833	CL7	CMB-C2B-C3B	2.05	131.38	126.55
13	A	816	CL7	CHC-C1C-C2C	-2.05	121.22	125.49
13	A	811	CL7	CBA-CAA-C2A	2.05	119.90	113.79
13	A	837	CL7	C4B-CHC-C1C	2.05	131.00	124.66
13	B	821	CL7	CMB-C2B-C1B	2.05	128.54	125.42
13	A	809	CL7	C4-C3-C5	2.05	118.79	115.23
13	A	836	CL7	CAC-C3C-C4C	2.05	127.75	124.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	101	WVN	C19-C22-C26	-2.05	115.78	119.01
13	B	811	CL7	CHC-C1C-NC	-2.05	121.92	124.80
19	M	101	WVN	C35-C32-C31	2.05	121.22	118.09
13	A	816	CL7	CAD-C3D-C2D	-2.05	139.95	144.26
13	L	207	CL7	CHC-C1C-NC	-2.05	121.92	124.80
19	A	853	WVN	C40-C39-C36	-2.05	119.33	123.52
19	K	101	WVN	C35-C32-C31	2.05	121.22	118.09
13	J	102	CL7	CAA-C2A-C1A	-2.04	105.47	112.19
13	B	805	CL7	CED-O2D-CGD	2.04	120.54	115.92
13	B	817	CL7	CHC-C1C-NC	-2.04	121.93	124.80
13	A	835	CL7	C4C-C3C-C2C	-2.04	104.42	107.11
19	A	854	WVN	C33-C34-C37	-2.04	115.80	119.01
13	A	840	CL7	CMB-C2B-C1B	2.04	128.52	125.42
13	B	822	CL7	CAD-C3D-C2D	-2.04	139.97	144.26
13	B	831	CL7	C4C-C3C-C2C	-2.04	104.43	107.11
13	B	811	CL7	C4B-CHC-C1C	2.03	130.94	124.66
13	I	102	CL7	CMC-C2C-C1C	2.03	128.31	124.73
19	A	851	WVN	C33-C34-C37	2.03	122.21	119.01
13	B	802	CL7	C4-C3-C5	2.03	118.75	115.23
13	B	809	CL7	CHC-C1C-NC	-2.03	121.94	124.80
13	B	834	CL7	CMC-C2C-C1C	2.03	128.31	124.73
13	B	803	CL7	C4B-CHC-C1C	2.03	130.93	124.66
13	A	819	CL7	CAA-CBA-CGA	-2.03	107.44	113.21
13	L	204	CL7	CAC-C3C-C4C	2.03	127.72	124.67
13	B	804	CL7	C4C-C3C-C2C	-2.03	104.44	107.11
13	L	201	CL7	C4C-C3C-C2C	-2.03	104.44	107.11
13	A	822	CL7	C4B-CHC-C1C	2.03	130.92	124.66
16	A	833	LMT	O3B-C3B-C2B	-2.03	105.60	110.38
13	B	833	CL7	C4C-C3C-C2C	-2.03	104.44	107.11
13	B	802	CL7	OBD-CAD-C3D	-2.02	123.69	128.42
13	A	802	CL7	CED-O2D-CGD	2.02	120.51	115.92
13	A	837	CL7	CAA-CBA-CGA	-2.02	107.46	113.21
13	B	823	CL7	CHC-C1C-C2C	-2.02	121.28	125.49
13	A	818	CL7	CAA-CBA-CGA	-2.02	107.47	113.21
13	B	837	CL7	CAC-C3C-C4C	2.02	127.71	124.67
13	B	834	CL7	CHD-C4C-NC	-2.02	121.96	124.80
13	B	824	CL7	CHC-C1C-C2C	-2.02	121.28	125.49
13	B	842	CL7	C3A-C2A-C1A	-2.02	101.36	104.05
13	B	815	CL7	C1-C2-C3	-2.02	122.89	126.20
13	K	102	CL7	C4C-C3C-C2C	-2.02	104.45	107.11
13	B	815	CL7	C4C-C3C-C2C	-2.02	104.45	107.11
13	A	824	CL7	CAC-C3C-C4C	2.02	127.70	124.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	101	WVN	C07-C01-C03	-2.01	104.82	109.01
13	A	839	CL7	CMB-C2B-C1B	2.01	128.49	125.42
13	A	824	CL7	C4-C3-C5	2.01	118.72	115.23
22	B	845	K3I	C26-C25-C23	-2.01	120.85	126.36
13	A	839	CL7	C1-O2A-CGA	2.01	121.52	116.65
15	A	826	PQN	C11-C12-C13	-2.01	123.37	126.83
19	A	854	WVN	C39-C40-C37	-2.01	119.41	123.52
13	B	815	CL7	CAD-C3D-C2D	-2.01	140.04	144.26
13	B	804	CL7	CMB-C2B-C3B	2.01	131.27	126.55
13	B	843	CL7	CAD-C3D-C2D	-2.00	140.04	144.26
13	B	826	CL7	O1D-CGD-CBD	-2.00	120.57	124.52
13	B	842	CL7	CHC-C1C-NC	-2.00	122.02	124.84
13	A	814	CL7	O1D-CGD-CBD	-2.00	120.57	124.52
19	L	202	WVN	C30-C28-C25	-2.00	124.47	127.28
13	A	842	CL7	C4C-C3C-C2C	-2.00	104.47	107.11
19	L	210	WVN	C19-C22-C26	-2.00	115.86	119.01
19	A	853	WVN	C24-C22-C19	2.00	121.14	118.09

All (179) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
12	A	801	G9R	ND
13	A	802	CL7	NC
13	A	802	CL7	NA
13	A	803	CL7	NC
13	A	803	CL7	NA
13	A	804	CL7	NC
13	A	804	CL7	NA
13	A	805	CL7	NA
13	A	806	CL7	NC
13	A	806	CL7	NA
13	A	807	CL7	NC
13	A	807	CL7	NA
13	A	808	CL7	NC
13	A	808	CL7	NA
13	A	809	CL7	NA
13	A	809	CL7	NC
13	A	810	CL7	NC
13	A	810	CL7	NA
13	A	811	CL7	NC
13	A	811	CL7	NA
13	A	812	CL7	NC

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Mol	Chain	Res	Type	Atom
13	A	812	CL7	NA
13	A	813	CL7	NC
13	A	813	CL7	NA
13	A	814	CL7	NC
13	A	814	CL7	NA
13	A	815	CL7	NC
13	A	815	CL7	NA
13	A	816	CL7	NC
13	A	816	CL7	NA
13	A	817	CL7	NC
13	A	817	CL7	NA
13	A	818	CL7	NC
13	A	818	CL7	NA
13	A	819	CL7	NC
13	A	819	CL7	NA
13	A	822	CL7	NC
13	A	822	CL7	NA
13	A	823	CL7	NC
13	A	823	CL7	NA
13	A	824	CL7	NC
13	A	824	CL7	NA
13	A	825	CL7	NC
13	A	825	CL7	NA
13	A	827	CL7	NC
13	A	827	CL7	NA
13	A	828	CL7	NC
13	A	828	CL7	NA
13	A	829	CL7	NC
13	A	829	CL7	NA
13	A	830	CL7	NC
13	A	830	CL7	NA
13	A	831	CL7	NC
13	A	831	CL7	NA
13	A	832	CL7	NC
13	A	832	CL7	NA
13	A	835	CL7	NC
13	A	835	CL7	NA
13	A	836	CL7	NC
13	A	836	CL7	NA
13	A	837	CL7	NC
13	A	837	CL7	NA
13	A	838	CL7	NC

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Mol	Chain	Res	Type	Atom
13	A	838	CL7	NA
13	A	839	CL7	NC
13	A	839	CL7	NA
13	A	840	CL7	NC
13	A	840	CL7	NA
13	A	841	CL7	NC
13	A	841	CL7	NA
13	A	842	CL7	NC
13	A	842	CL7	NA
13	A	843	CL7	NC
13	A	843	CL7	NA
13	A	845	CL7	NC
13	A	845	CL7	NA
13	A	846	CL7	NC
13	A	846	CL7	NA
13	A	848	CL7	NC
13	A	848	CL7	NA
13	A	855	CL7	NC
13	A	855	CL7	NA
13	B	802	CL7	NC
13	B	802	CL7	NA
13	B	803	CL7	NC
13	B	803	CL7	NA
13	B	804	CL7	NC
13	B	804	CL7	NA
13	B	805	CL7	NC
13	B	805	CL7	NA
13	B	806	CL7	NC
13	B	806	CL7	NA
13	B	807	CL7	NC
13	B	807	CL7	NA
13	B	808	CL7	NC
13	B	808	CL7	NA
13	B	809	CL7	NC
13	B	809	CL7	NA
13	B	810	CL7	NA
13	B	810	CL7	NC
13	B	811	CL7	NC
13	B	811	CL7	NA
13	B	812	CL7	NC
13	B	812	CL7	NA
13	B	813	CL7	NC

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Mol	Chain	Res	Type	Atom
13	B	813	CL7	NA
13	B	814	CL7	NC
13	B	814	CL7	NA
13	B	815	CL7	NA
13	B	815	CL7	NC
13	B	816	CL7	NC
13	B	816	CL7	NA
13	B	817	CL7	NC
13	B	817	CL7	NA
13	B	818	CL7	NC
13	B	818	CL7	NA
13	B	819	CL7	NC
13	B	819	CL7	NA
13	B	821	CL7	NC
13	B	821	CL7	NA
13	B	822	CL7	NA
13	B	823	CL7	NC
13	B	823	CL7	NA
13	B	824	CL7	NA
13	B	825	CL7	NC
13	B	825	CL7	NA
13	B	826	CL7	NC
13	B	826	CL7	NA
13	B	828	CL7	NC
13	B	828	CL7	NA
13	B	829	CL7	NA
13	B	830	CL7	NC
13	B	830	CL7	NA
13	B	831	CL7	NC
13	B	831	CL7	NA
13	B	832	CL7	NC
13	B	832	CL7	NA
13	B	833	CL7	NC
13	B	833	CL7	NA
13	B	834	CL7	NA
13	B	834	CL7	NC
13	B	837	CL7	NC
13	B	837	CL7	NA
13	B	838	CL7	NC
13	B	838	CL7	NA
13	B	840	CL7	NC
13	B	840	CL7	NA

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Mol	Chain	Res	Type	Atom
13	B	841	CL7	NA
13	B	841	CL7	NC
13	B	842	CL7	NC
13	B	842	CL7	NA
13	B	843	CL7	NC
13	B	843	CL7	NA
13	B	846	CL7	NC
13	B	846	CL7	NA
13	F	201	CL7	NC
13	F	201	CL7	NA
13	F	202	CL7	NC
13	F	202	CL7	NA
13	F	206	CL7	NC
13	F	206	CL7	NA
13	I	102	CL7	NA
13	J	102	CL7	NC
13	J	102	CL7	NA
13	J	103	CL7	NC
13	J	103	CL7	NA
13	K	102	CL7	NC
13	K	102	CL7	NA
13	K	103	CL7	NC
13	K	103	CL7	NA
13	L	201	CL7	NC
13	L	201	CL7	NA
13	L	204	CL7	NC
13	L	204	CL7	NA
13	L	205	CL7	NC
13	L	205	CL7	NA
13	L	207	CL7	NC
13	L	207	CL7	NA
22	B	845	K3I	C3

All (1166) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	A	802	CL7	C4B-C3B-CAB-OBB
13	A	804	CL7	C2B-C3B-CAB-OBB
13	A	804	CL7	C4B-C3B-CAB-OBB
13	A	805	CL7	C1A-C2A-CAA-CBA
13	A	805	CL7	C2B-C3B-CAB-OBB
13	A	805	CL7	C4B-C3B-CAB-OBB

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Mol	Chain	Res	Type	Atoms
13	A	806	CL7	C4B-C3B-CAB-OBB
13	A	807	CL7	CHA-CBD-CGD-O2D
13	A	807	CL7	CHA-CBD-CGD-O1D
13	A	807	CL7	C2B-C3B-CAB-OBB
13	A	807	CL7	C4B-C3B-CAB-OBB
13	A	808	CL7	C4B-C3B-CAB-OBB
13	A	809	CL7	C1A-C2A-CAA-CBA
13	A	809	CL7	CHA-CBD-CGD-O2D
13	A	809	CL7	CHA-CBD-CGD-O1D
13	A	809	CL7	C2B-C3B-CAB-OBB
13	A	809	CL7	C4B-C3B-CAB-OBB
13	A	810	CL7	CHA-CBD-CGD-O2D
13	A	810	CL7	CHA-CBD-CGD-O1D
13	A	810	CL7	C2B-C3B-CAB-OBB
13	A	810	CL7	C4B-C3B-CAB-OBB
13	A	811	CL7	C4B-C3B-CAB-OBB
13	A	812	CL7	C4B-C3B-CAB-OBB
13	A	815	CL7	C2B-C3B-CAB-OBB
13	A	815	CL7	C4B-C3B-CAB-OBB
13	A	817	CL7	C4B-C3B-CAB-OBB
13	A	823	CL7	C2-C1-O2A-CGA
13	A	823	CL7	C2B-C3B-CAB-OBB
13	A	823	CL7	C4B-C3B-CAB-OBB
13	A	825	CL7	C2B-C3B-CAB-OBB
13	A	825	CL7	C4B-C3B-CAB-OBB
13	A	827	CL7	C4B-C3B-CAB-OBB
13	A	828	CL7	C1A-C2A-CAA-CBA
13	A	828	CL7	C3A-C2A-CAA-CBA
13	A	828	CL7	CBD-CGD-O2D-CED
13	A	828	CL7	C2B-C3B-CAB-OBB
13	A	828	CL7	C4B-C3B-CAB-OBB
13	A	829	CL7	C1A-C2A-CAA-CBA
13	A	829	CL7	C2B-C3B-CAB-OBB
13	A	829	CL7	C4B-C3B-CAB-OBB
13	A	830	CL7	C2B-C3B-CAB-OBB
13	A	830	CL7	C4B-C3B-CAB-OBB
13	A	831	CL7	CBD-CGD-O2D-CED
13	A	836	CL7	C3A-C2A-CAA-CBA
13	A	836	CL7	C2B-C3B-CAB-OBB
13	A	836	CL7	C4B-C3B-CAB-OBB
13	A	838	CL7	C1A-C2A-CAA-CBA
13	A	838	CL7	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	A	838	CL7	C4B-C3B-CAB-OBB
13	A	840	CL7	C2B-C3B-CAB-OBB
13	A	840	CL7	C4B-C3B-CAB-OBB
13	A	841	CL7	C1A-C2A-CAA-CBA
13	A	841	CL7	CBD-CGD-O2D-CED
13	A	842	CL7	C2B-C3B-CAB-OBB
13	A	842	CL7	C4B-C3B-CAB-OBB
13	A	843	CL7	C4B-C3B-CAB-OBB
13	A	845	CL7	C1A-C2A-CAA-CBA
13	A	846	CL7	C1A-C2A-CAA-CBA
13	A	848	CL7	C1A-C2A-CAA-CBA
13	A	848	CL7	C3A-C2A-CAA-CBA
13	A	848	CL7	CHA-CBD-CGD-O2D
13	A	848	CL7	C2B-C3B-CAB-OBB
13	A	848	CL7	C4B-C3B-CAB-OBB
13	A	855	CL7	CAD-CBD-CGD-O2D
13	A	855	CL7	CAD-CBD-CGD-O1D
13	B	802	CL7	C2B-C3B-CAB-OBB
13	B	802	CL7	C4B-C3B-CAB-OBB
13	B	805	CL7	C4B-C3B-CAB-OBB
13	B	806	CL7	CHA-CBD-CGD-O2D
13	B	806	CL7	CHA-CBD-CGD-O1D
13	B	807	CL7	CBD-CGD-O2D-CED
13	B	808	CL7	C2B-C3B-CAB-OBB
13	B	808	CL7	C4B-C3B-CAB-OBB
13	B	809	CL7	CBD-CGD-O2D-CED
13	B	810	CL7	C4B-C3B-CAB-OBB
13	B	813	CL7	C4B-C3B-CAB-OBB
13	B	814	CL7	C2B-C3B-CAB-OBB
13	B	814	CL7	C4B-C3B-CAB-OBB
13	B	815	CL7	CHA-CBD-CGD-O2D
13	B	815	CL7	CHA-CBD-CGD-O1D
13	B	816	CL7	C2B-C3B-CAB-OBB
13	B	816	CL7	C4B-C3B-CAB-OBB
13	B	819	CL7	O2A-C1-C2-C3
13	B	819	CL7	C2B-C3B-CAB-OBB
13	B	819	CL7	C4B-C3B-CAB-OBB
13	B	822	CL7	CHA-CBD-CGD-O2D
13	B	822	CL7	CHA-CBD-CGD-O1D
13	B	824	CL7	CBD-CGD-O2D-CED
13	B	824	CL7	C2B-C3B-CAB-OBB
13	B	824	CL7	C4B-C3B-CAB-OBB

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Mol	Chain	Res	Type	Atoms
13	B	825	CL7	C2B-C3B-CAB-OBB
13	B	825	CL7	C4B-C3B-CAB-OBB
13	B	829	CL7	C2B-C3B-CAB-OBB
13	B	829	CL7	C4B-C3B-CAB-OBB
13	B	830	CL7	C1A-C2A-CAA-CBA
13	B	830	CL7	C2B-C3B-CAB-OBB
13	B	830	CL7	C4B-C3B-CAB-OBB
13	B	831	CL7	CHA-CBD-CGD-O2D
13	B	831	CL7	CHA-CBD-CGD-O1D
13	B	831	CL7	C2B-C3B-CAB-OBB
13	B	831	CL7	C4B-C3B-CAB-OBB
13	B	832	CL7	C2B-C3B-CAB-OBB
13	B	832	CL7	C4B-C3B-CAB-OBB
13	B	833	CL7	C2B-C3B-CAB-OBB
13	B	833	CL7	C4B-C3B-CAB-OBB
13	B	834	CL7	C1A-C2A-CAA-CBA
13	B	837	CL7	O1A-CGA-O2A-C1
13	B	837	CL7	C2B-C3B-CAB-OBB
13	B	837	CL7	C4B-C3B-CAB-OBB
13	B	838	CL7	C3A-C2A-CAA-CBA
13	B	838	CL7	CHA-CBD-CGD-O2D
13	B	838	CL7	C2B-C3B-CAB-OBB
13	B	838	CL7	C4B-C3B-CAB-OBB
13	B	840	CL7	CBD-CGD-O2D-CED
13	B	840	CL7	C2B-C3B-CAB-OBB
13	B	840	CL7	C4B-C3B-CAB-OBB
13	B	841	CL7	C2B-C3B-CAB-OBB
13	B	841	CL7	C4B-C3B-CAB-OBB
13	B	843	CL7	CBD-CGD-O2D-CED
13	B	843	CL7	C2B-C3B-CAB-OBB
13	B	843	CL7	C4B-C3B-CAB-OBB
13	B	846	CL7	CBD-CGD-O2D-CED
13	F	201	CL7	C4B-C3B-CAB-OBB
13	F	202	CL7	C4B-C3B-CAB-OBB
13	I	102	CL7	C1A-C2A-CAA-CBA
13	I	102	CL7	C3A-C2A-CAA-CBA
13	J	102	CL7	C6-C7-C8-C9
13	J	102	CL7	C1A-C2A-CAA-CBA
13	J	102	CL7	CHA-CBD-CGD-O2D
13	J	102	CL7	CHA-CBD-CGD-O1D
13	J	103	CL7	C1A-C2A-CAA-CBA
13	J	103	CL7	C2B-C3B-CAB-OBB

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Mol	Chain	Res	Type	Atoms
13	J	103	CL7	C4B-C3B-CAB-OBB
13	K	102	CL7	C2B-C3B-CAB-OBB
13	K	102	CL7	C4B-C3B-CAB-OBB
13	K	103	CL7	C2B-C3B-CAB-OBB
13	K	103	CL7	C4B-C3B-CAB-OBB
13	L	201	CL7	CHA-CBD-CGD-O2D
13	L	201	CL7	CHA-CBD-CGD-O1D
13	L	201	CL7	C2B-C3B-CAB-OBB
13	L	201	CL7	C4B-C3B-CAB-OBB
13	L	204	CL7	C1A-C2A-CAA-CBA
13	L	204	CL7	C3A-C2A-CAA-CBA
13	L	207	CL7	O1A-CGA-O2A-C1
13	L	207	CL7	CBA-CGA-O2A-C1
13	L	207	CL7	C1A-C2A-CAA-CBA
14	A	820	LHG	C3-O3-P-O6
14	A	820	LHG	C4-O6-P-O3
14	A	820	LHG	C4-O6-P-O4
14	A	820	LHG	O7-C5-C6-O8
14	L	208	LHG	C4-O6-P-O3
14	L	208	LHG	C4-O6-P-O4
14	L	208	LHG	C4-O6-P-O5
14	L	208	LHG	O7-C5-C6-O8
16	A	833	LMT	C2'-C1'-O1'-C1
16	K	104	LMT	O5'-C1'-O1'-C1
19	A	850	WVN	C01-C02-C11-C19
19	A	850	WVN	C05-C02-C11-C19
19	A	850	WVN	C11-C19-C22-C26
19	A	851	WVN	C05-C02-C11-C19
19	A	852	WVN	C05-C02-C11-C19
19	A	852	WVN	C02-C11-C19-C22
19	A	852	WVN	C11-C19-C22-C24
19	A	852	WVN	C11-C19-C22-C26
19	A	853	WVN	C01-C02-C11-C19
19	A	853	WVN	C05-C02-C11-C19
19	A	853	WVN	C02-C11-C19-C22
19	A	854	WVN	C01-C02-C11-C19
19	A	854	WVN	C05-C02-C11-C19
19	A	854	WVN	C02-C11-C19-C22
19	B	847	WVN	C02-C11-C19-C22
19	B	848	WVN	C05-C02-C11-C19
19	F	204	WVN	C01-C02-C11-C19
19	F	204	WVN	C05-C02-C11-C19

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Mol	Chain	Res	Type	Atoms
19	F	204	WVN	C02-C11-C19-C22
19	F	204	WVN	C15-C13-C20-C23
19	F	204	WVN	C29-C31-C32-C35
19	F	204	WVN	C29-C31-C32-C36
19	F	205	WVN	C01-C02-C11-C19
19	F	205	WVN	C05-C02-C11-C19
19	F	205	WVN	C02-C11-C19-C22
19	F	205	WVN	C15-C13-C20-C23
19	F	205	WVN	C20-C23-C25-C27
19	F	205	WVN	C20-C23-C25-C28
19	I	101	WVN	C01-C02-C11-C19
19	I	101	WVN	C05-C02-C11-C19
19	I	101	WVN	C02-C11-C19-C22
19	I	101	WVN	C11-C19-C22-C24
19	I	101	WVN	C11-C19-C22-C26
19	J	101	WVN	C01-C02-C11-C19
19	J	101	WVN	C05-C02-C11-C19
19	J	101	WVN	C15-C13-C20-C23
19	J	104	WVN	C05-C02-C11-C19
19	J	104	WVN	C06-C13-C20-C23
19	K	101	WVN	C01-C02-C11-C19
19	K	101	WVN	C05-C02-C11-C19
19	K	101	WVN	C29-C31-C32-C35
19	K	101	WVN	C29-C31-C32-C36
19	L	202	WVN	C05-C02-C11-C19
19	L	202	WVN	C11-C19-C22-C26
19	L	210	WVN	C05-C02-C11-C19
19	M	101	WVN	C05-C02-C11-C19
19	M	101	WVN	C02-C11-C19-C22
19	M	101	WVN	C11-C19-C22-C24
20	B	827	LMG	C2-C1-O1-C7
20	B	827	LMG	O6-C1-O1-C7
20	L	203	LMG	C11-C10-O7-C8
16	F	203	LMT	C3'-C4'-O1B-C1B
13	B	840	CL7	O1D-CGD-O2D-CED
13	B	843	CL7	O1D-CGD-O2D-CED
13	A	823	CL7	CBD-CGD-O2D-CED
13	B	810	CL7	CBD-CGD-O2D-CED
13	B	826	CL7	CBD-CGD-O2D-CED
13	B	831	CL7	CBD-CGD-O2D-CED
13	B	832	CL7	CBD-CGD-O2D-CED
13	B	834	CL7	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	B	838	CL7	CBD-CGD-O2D-CED
13	F	206	CL7	CBD-CGD-O2D-CED
13	I	102	CL7	CBD-CGD-O2D-CED
13	L	204	CL7	CBD-CGD-O2D-CED
13	A	839	CL7	O1A-CGA-O2A-C1
13	B	816	CL7	O1A-CGA-O2A-C1
13	B	819	CL7	O1A-CGA-O2A-C1
13	L	204	CL7	O1A-CGA-O2A-C1
13	B	819	CL7	CBA-CGA-O2A-C1
13	A	825	CL7	CBD-CGD-O2D-CED
13	A	842	CL7	CBD-CGD-O2D-CED
13	L	201	CL7	CBD-CGD-O2D-CED
13	A	805	CL7	O1A-CGA-O2A-C1
20	L	203	LMG	O10-C28-O8-C9
13	A	814	CL7	C10-C11-C12-C13
16	F	203	LMT	C4B-C5B-C6B-O6B
13	A	828	CL7	O1D-CGD-O2D-CED
13	B	824	CL7	O1D-CGD-O2D-CED
13	A	841	CL7	O1D-CGD-O2D-CED
13	B	807	CL7	O1D-CGD-O2D-CED
13	B	809	CL7	O1D-CGD-O2D-CED
13	A	836	CL7	CBD-CGD-O2D-CED
20	L	203	LMG	O9-C10-O7-C8
13	A	803	CL7	C3-C5-C6-C7
13	A	807	CL7	C3-C5-C6-C7
13	A	828	CL7	C3-C5-C6-C7
13	A	835	CL7	C3-C5-C6-C7
13	A	841	CL7	C3-C5-C6-C7
13	B	806	CL7	C3-C5-C6-C7
13	B	825	CL7	C3-C5-C6-C7
13	B	816	CL7	CBA-CGA-O2A-C1
13	B	837	CL7	CBA-CGA-O2A-C1
13	L	204	CL7	CBA-CGA-O2A-C1
20	L	203	LMG	C29-C28-O8-C9
13	A	806	CL7	CBD-CGD-O2D-CED
13	A	809	CL7	CBD-CGD-O2D-CED
13	A	816	CL7	CBD-CGD-O2D-CED
13	A	829	CL7	CBD-CGD-O2D-CED
13	A	845	CL7	CBD-CGD-O2D-CED
13	A	848	CL7	CBD-CGD-O2D-CED
13	B	816	CL7	CBD-CGD-O2D-CED
13	B	817	CL7	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	L	207	CL7	CBD-CGD-O2D-CED
13	A	831	CL7	O1D-CGD-O2D-CED
13	B	831	CL7	O1D-CGD-O2D-CED
13	B	846	CL7	O1D-CGD-O2D-CED
13	F	206	CL7	O1D-CGD-O2D-CED
13	A	812	CL7	C4-C3-C5-C6
13	A	830	CL7	C4-C3-C5-C6
13	B	812	CL7	C4-C3-C5-C6
13	A	812	CL7	C2-C3-C5-C6
13	A	830	CL7	C2-C3-C5-C6
13	B	812	CL7	C2-C3-C5-C6
13	A	817	CL7	C3-C5-C6-C7
13	B	812	CL7	C3-C5-C6-C7
13	L	204	CL7	C3-C5-C6-C7
13	A	803	CL7	CBA-CGA-O2A-C1
13	A	805	CL7	CBA-CGA-O2A-C1
13	A	817	CL7	CBA-CGA-O2A-C1
13	A	845	CL7	CBA-CGA-O2A-C1
20	B	827	LMG	C38-C39-C40-C41
13	B	817	CL7	O1A-CGA-O2A-C1
13	B	823	CL7	O1A-CGA-O2A-C1
20	B	827	LMG	C35-C36-C37-C38
20	L	203	LMG	C35-C36-C37-C38
20	B	827	LMG	C20-C21-C22-C23
13	A	823	CL7	O1D-CGD-O2D-CED
13	A	830	CL7	C3-C5-C6-C7
13	B	813	CL7	CBD-CGD-O2D-CED
13	B	819	CL7	CBD-CGD-O2D-CED
14	L	208	LHG	O2-C2-C3-O3
13	B	832	CL7	O1D-CGD-O2D-CED
13	A	804	CL7	CBA-CGA-O2A-C1
13	A	824	CL7	CBA-CGA-O2A-C1
13	B	815	CL7	CBA-CGA-O2A-C1
13	A	803	CL7	O1A-CGA-O2A-C1
13	A	817	CL7	O1A-CGA-O2A-C1
13	A	824	CL7	CBD-CGD-O2D-CED
13	A	827	CL7	CBD-CGD-O2D-CED
13	A	837	CL7	CBD-CGD-O2D-CED
13	B	830	CL7	CBD-CGD-O2D-CED
14	L	208	LHG	C8-C7-O7-C5
13	B	810	CL7	O1D-CGD-O2D-CED
13	A	838	CL7	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
13	B	826	CL7	O1D-CGD-O2D-CED
13	B	834	CL7	O1D-CGD-O2D-CED
13	B	838	CL7	O1D-CGD-O2D-CED
13	A	814	CL7	CBD-CGD-O2D-CED
13	A	840	CL7	CBD-CGD-O2D-CED
16	F	203	LMT	O5B-C5B-C6B-O6B
13	B	817	CL7	CBA-CGA-O2A-C1
13	B	823	CL7	CBA-CGA-O2A-C1
13	A	817	CL7	C4-C3-C5-C6
13	A	840	CL7	C4-C3-C5-C6
13	A	817	CL7	C2-C3-C5-C6
13	A	840	CL7	C2-C3-C5-C6
13	A	845	CL7	O1A-CGA-O2A-C1
13	I	102	CL7	O1D-CGD-O2D-CED
13	A	810	CL7	CBD-CGD-O2D-CED
13	B	815	CL7	CBD-CGD-O2D-CED
13	L	204	CL7	O1D-CGD-O2D-CED
13	A	804	CL7	O1A-CGA-O2A-C1
13	A	824	CL7	O1A-CGA-O2A-C1
13	A	842	CL7	O1D-CGD-O2D-CED
14	A	821	LHG	C24-C23-O8-C6
13	A	802	CL7	CBD-CGD-O2D-CED
13	A	805	CL7	CBD-CGD-O2D-CED
13	A	807	CL7	CBD-CGD-O2D-CED
13	A	811	CL7	CBD-CGD-O2D-CED
13	F	202	CL7	CBD-CGD-O2D-CED
13	B	815	CL7	O1A-CGA-O2A-C1
13	A	825	CL7	O1D-CGD-O2D-CED
13	B	811	CL7	CBD-CGD-O2D-CED
13	A	828	CL7	O1A-CGA-O2A-C1
13	B	828	CL7	O1A-CGA-O2A-C1
14	L	208	LHG	O9-C7-O7-C5
13	A	809	CL7	CBA-CGA-O2A-C1
13	A	828	CL7	CBA-CGA-O2A-C1
13	A	829	CL7	CBA-CGA-O2A-C1
13	A	830	CL7	CBA-CGA-O2A-C1
13	A	841	CL7	CBA-CGA-O2A-C1
13	B	828	CL7	CBA-CGA-O2A-C1
16	A	844	LMT	C5-C6-C7-C8
13	B	812	CL7	CBD-CGD-O2D-CED
13	B	814	CL7	CBD-CGD-O2D-CED
13	B	818	CL7	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	A	836	CL7	O1D-CGD-O2D-CED
13	L	201	CL7	O1D-CGD-O2D-CED
13	A	803	CL7	CBD-CGD-O2D-CED
13	A	806	CL7	C14-C13-C15-C16
13	A	808	CL7	C11-C10-C8-C9
13	B	806	CL7	C11-C10-C8-C9
13	B	808	CL7	C14-C13-C15-C16
13	B	819	CL7	C11-C10-C8-C9
13	B	819	CL7	C11-C12-C13-C14
13	B	819	CL7	C14-C13-C15-C16
13	B	825	CL7	C6-C7-C8-C9
13	B	825	CL7	C14-C13-C15-C16
13	B	828	CL7	C14-C13-C15-C16
18	A	849	PHO	C14-C13-C15-C16
13	A	809	CL7	O1D-CGD-O2D-CED
13	A	848	CL7	O1D-CGD-O2D-CED
13	L	207	CL7	O1D-CGD-O2D-CED
20	L	203	LMG	C2-C1-O1-C7
13	B	816	CL7	O1D-CGD-O2D-CED
13	A	829	CL7	O1A-CGA-O2A-C1
13	B	837	CL7	CBD-CGD-O2D-CED
13	K	102	CL7	CBD-CGD-O2D-CED
19	A	850	WVN	C11-C19-C22-C24
19	A	853	WVN	C11-C19-C22-C24
19	F	205	WVN	C11-C19-C22-C24
19	I	101	WVN	C29-C31-C32-C35
19	L	202	WVN	C11-C19-C22-C24
19	F	205	WVN	C11-C19-C22-C26
19	M	101	WVN	C11-C19-C22-C26
16	A	834	LMT	C1-C2-C3-C4
13	A	838	CL7	C4C-C3C-CAC-CBC
13	A	838	CL7	CBD-CGD-O2D-CED
13	B	804	CL7	CBD-CGD-O2D-CED
16	B	835	LMT	C1-C2-C3-C4
20	B	827	LMG	O6-C5-C6-O5
13	A	845	CL7	O1D-CGD-O2D-CED
13	A	814	CL7	CBA-CGA-O2A-C1
13	A	805	CL7	C2-C1-O2A-CGA
13	A	838	CL7	C2-C1-O2A-CGA
13	B	804	CL7	C2-C1-O2A-CGA
13	B	826	CL7	C2-C1-O2A-CGA
13	A	806	CL7	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	B	817	CL7	O1D-CGD-O2D-CED
13	A	806	CL7	C15-C16-C17-C18
13	A	807	CL7	C15-C16-C17-C18
13	B	818	CL7	C15-C16-C17-C18
13	B	825	CL7	CBD-CGD-O2D-CED
13	A	803	CL7	C11-C12-C13-C15
13	A	827	CL7	CBA-CGA-O2A-C1
13	A	838	CL7	C10-C11-C12-C13
13	A	816	CL7	O1D-CGD-O2D-CED
13	A	808	CL7	C8-C10-C11-C12
13	B	815	CL7	C5-C6-C7-C8
14	L	208	LHG	C7-C8-C9-C10
14	A	821	LHG	O10-C23-O8-C6
13	A	855	CL7	CBD-CGD-O2D-CED
13	A	829	CL7	O1D-CGD-O2D-CED
13	A	842	CL7	C8-C10-C11-C12
13	B	819	CL7	C10-C11-C12-C13
13	F	201	CL7	C10-C11-C12-C13
13	B	818	CL7	C2A-CAA-CBA-CGA
13	B	826	CL7	C2A-CAA-CBA-CGA
13	B	829	CL7	C2A-CAA-CBA-CGA
13	A	806	CL7	C13-C15-C16-C17
13	A	817	CL7	C15-C16-C17-C18
13	A	818	CL7	C5-C6-C7-C8
13	B	815	CL7	C8-C10-C11-C12
13	B	828	CL7	C13-C15-C16-C17
20	B	827	LMG	C4-C5-C6-O5
16	B	836	LMT	C1-C2-C3-C4
16	L	206	LMT	O5'-C1'-O1'-C1
13	A	814	CL7	C8-C10-C11-C12
13	A	824	CL7	C5-C6-C7-C8
13	A	841	CL7	C10-C11-C12-C13
13	J	102	CL7	C10-C11-C12-C13
18	A	849	PHO	C13-C15-C16-C17
13	A	843	CL7	CBA-CGA-O2A-C1
13	A	809	CL7	O1A-CGA-O2A-C1
13	A	830	CL7	O1A-CGA-O2A-C1
13	A	841	CL7	O1A-CGA-O2A-C1
13	A	830	CL7	C15-C16-C17-C18
16	L	206	LMT	O1'-C1-C2-C3
13	B	823	CL7	C3-C5-C6-C7
13	B	813	CL7	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	A	806	CL7	C8-C10-C11-C12
13	A	811	CL7	C15-C16-C17-C18
13	A	835	CL7	C5-C6-C7-C8
13	B	812	CL7	C8-C10-C11-C12
13	B	830	CL7	O1D-CGD-O2D-CED
16	B	835	LMT	C6-C7-C8-C9
13	A	808	CL7	C13-C15-C16-C17
13	A	809	CL7	C15-C16-C17-C18
13	B	814	CL7	CBA-CGA-O2A-C1
13	B	821	CL7	CBA-CGA-O2A-C1
20	B	827	LMG	C11-C10-O7-C8
13	A	814	CL7	O1A-CGA-O2A-C1
13	A	827	CL7	O1A-CGA-O2A-C1
13	B	819	CL7	O1D-CGD-O2D-CED
20	B	827	LMG	O9-C10-O7-C8
14	L	208	LHG	C1-C2-C3-O3
13	B	834	CL7	C2A-CAA-CBA-CGA
13	B	838	CL7	C2A-CAA-CBA-CGA
13	A	818	CL7	CBA-CGA-O2A-C1
13	A	827	CL7	C5-C6-C7-C8
13	A	840	CL7	C13-C15-C16-C17
13	B	815	CL7	C15-C16-C17-C18
13	A	837	CL7	O1D-CGD-O2D-CED
13	A	803	CL7	C10-C11-C12-C13
18	B	801	PHO	C8-C10-C11-C12
16	K	104	LMT	O1'-C1-C2-C3
13	A	803	CL7	C15-C16-C17-C18
13	A	817	CL7	C13-C15-C16-C17
13	A	836	CL7	C8-C10-C11-C12
13	B	815	CL7	C10-C11-C12-C13
13	B	819	CL7	C15-C16-C17-C18
13	L	204	CL7	C10-C11-C12-C13
13	A	824	CL7	O1D-CGD-O2D-CED
13	A	827	CL7	O1D-CGD-O2D-CED
16	A	833	LMT	O5'-C5'-C6'-O6'
13	A	840	CL7	O1D-CGD-O2D-CED
16	L	206	LMT	C2'-C1'-O1'-C1
12	A	801	G9R	C16-C17-C18-C20
13	A	828	CL7	C11-C12-C13-C14
13	L	204	CL7	C16-C17-C18-C20
13	A	843	CL7	O1A-CGA-O2A-C1
13	A	808	CL7	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
19	A	854	WVN	C11-C19-C22-C24
19	J	104	WVN	C20-C23-C25-C27
19	A	853	WVN	C11-C19-C22-C26
19	A	854	WVN	C11-C19-C22-C26
19	I	101	WVN	C29-C31-C32-C36
19	J	104	WVN	C20-C23-C25-C28
13	A	818	CL7	O1A-CGA-O2A-C1
13	B	814	CL7	O1A-CGA-O2A-C1
13	A	839	CL7	C2A-CAA-CBA-CGA
13	B	819	CL7	C2A-CAA-CBA-CGA
13	L	207	CL7	C2A-CAA-CBA-CGA
13	A	823	CL7	C15-C16-C17-C18
20	L	203	LMG	C18-C19-C20-C21
14	A	821	LHG	O1-C1-C2-C3
13	A	838	CL7	CBA-CGA-O2A-C1
13	A	815	CL7	C16-C17-C18-C19
13	A	817	CL7	C16-C17-C18-C19
13	A	839	CL7	C16-C17-C18-C20
13	B	815	CL7	O1D-CGD-O2D-CED
16	A	834	LMT	C5-C6-C7-C8
13	A	810	CL7	O1D-CGD-O2D-CED
13	A	814	CL7	O1D-CGD-O2D-CED
13	F	202	CL7	O1D-CGD-O2D-CED
13	A	802	CL7	C2-C1-O2A-CGA
13	A	809	CL7	C2-C1-O2A-CGA
13	A	830	CL7	C2-C1-O2A-CGA
18	B	801	PHO	C2-C1-O2A-CGA
13	A	819	CL7	C16-C17-C18-C19
13	A	828	CL7	C11-C12-C13-C15
13	L	204	CL7	C16-C17-C18-C19
13	L	205	CL7	C16-C17-C18-C20
14	A	821	LHG	C29-C30-C31-C32
14	A	821	LHG	C30-C31-C32-C33
20	B	827	LMG	C36-C37-C38-C39
13	A	811	CL7	O1D-CGD-O2D-CED
13	A	815	CL7	C15-C16-C17-C18
14	A	820	LHG	C28-C29-C30-C31
14	A	820	LHG	C16-C17-C18-C19
14	A	821	LHG	C32-C33-C34-C35
16	A	844	LMT	C6-C7-C8-C9
16	A	833	LMT	C2-C1-O1'-C1'
16	L	206	LMT	C2-C1-O1'-C1'

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Mol	Chain	Res	Type	Atoms
16	B	835	LMT	C4-C5-C6-C7
16	L	206	LMT	C6-C7-C8-C9
13	A	806	CL7	C16-C17-C18-C20
13	A	807	CL7	C16-C17-C18-C19
13	A	815	CL7	C16-C17-C18-C20
13	A	839	CL7	C16-C17-C18-C19
13	J	102	CL7	C11-C12-C13-C14
13	L	205	CL7	C16-C17-C18-C19
13	B	802	CL7	C2A-CAA-CBA-CGA
13	A	830	CL7	C13-C15-C16-C17
13	A	809	CL7	C8-C10-C11-C12
13	B	819	CL7	C13-C15-C16-C17
14	L	208	LHG	C25-C26-C27-C28
13	B	821	CL7	O1A-CGA-O2A-C1
13	A	805	CL7	C3A-C2A-CAA-CBA
13	A	809	CL7	C3A-C2A-CAA-CBA
13	A	829	CL7	C3A-C2A-CAA-CBA
13	A	841	CL7	C3A-C2A-CAA-CBA
13	B	829	CL7	C3A-C2A-CAA-CBA
13	B	830	CL7	C3A-C2A-CAA-CBA
13	B	841	CL7	C3A-C2A-CAA-CBA
16	B	836	LMT	O1'-C1-C2-C3
13	A	830	CL7	CBD-CGD-O2D-CED
13	F	201	CL7	C3-C5-C6-C7
13	A	832	CL7	C8-C10-C11-C12
13	A	807	CL7	O1D-CGD-O2D-CED
13	A	838	CL7	O1A-CGA-O2A-C1
13	A	802	CL7	O1D-CGD-O2D-CED
13	A	827	CL7	C11-C12-C13-C14
19	F	205	WVN	C06-C13-C20-C23
19	L	202	WVN	C15-C13-C20-C23
19	L	210	WVN	C15-C13-C20-C23
22	B	845	K3I	C29-C31-C32-C37
13	A	815	CL7	CBD-CGD-O2D-CED
13	B	822	CL7	CBA-CGA-O2A-C1
13	B	826	CL7	CBA-CGA-O2A-C1
13	B	832	CL7	CBA-CGA-O2A-C1
13	L	205	CL7	CBA-CGA-O2A-C1
18	A	849	PHO	C11-C10-C8-C9
13	A	805	CL7	O1D-CGD-O2D-CED
16	A	844	LMT	C11-C10-C9-C8
20	B	827	LMG	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
14	A	820	LHG	O2-C2-C3-O3
13	A	803	CL7	C8-C10-C11-C12
13	A	822	CL7	CBA-CGA-O2A-C1
13	A	817	CL7	C16-C17-C18-C20
13	B	808	CL7	C16-C17-C18-C20
18	A	849	PHO	C15-C16-C17-C18
20	L	203	LMG	C33-C34-C35-C36
19	A	850	WVN	C29-C31-C32-C35
19	B	847	WVN	C11-C19-C22-C24
20	B	827	LMG	C33-C34-C35-C36
13	A	807	CL7	C16-C17-C18-C20
13	A	819	CL7	C16-C17-C18-C20
13	A	827	CL7	C11-C12-C13-C15
13	B	806	CL7	C16-C17-C18-C19
13	B	811	CL7	O1D-CGD-O2D-CED
13	A	825	CL7	C15-C16-C17-C18
13	A	840	CL7	C5-C6-C7-C8
13	B	804	CL7	C15-C16-C17-C18
14	A	820	LHG	C17-C18-C19-C20
14	A	820	LHG	C27-C28-C29-C30
13	A	802	CL7	C15-C16-C17-C18
13	A	817	CL7	C5-C6-C7-C8
13	L	207	CL7	C8-C10-C11-C12
13	L	207	CL7	C15-C16-C17-C18
13	F	201	CL7	C11-C12-C13-C14
14	A	820	LHG	C7-C8-C9-C10
13	A	825	CL7	C13-C15-C16-C17
13	A	830	CL7	C8-C10-C11-C12
16	A	844	LMT	C2-C3-C4-C5
13	B	837	CL7	O1D-CGD-O2D-CED
13	A	828	CL7	C2-C1-O2A-CGA
13	A	803	CL7	O1D-CGD-O2D-CED
12	A	801	G9R	C16-C17-C18-C19
13	A	814	CL7	C11-C12-C13-C14
16	A	834	LMT	C2-C3-C4-C5
13	B	822	CL7	C3-C5-C6-C7
13	B	815	CL7	C2-C3-C5-C6
14	A	820	LHG	C11-C10-C9-C8
13	B	840	CL7	C2A-CAA-CBA-CGA
13	B	812	CL7	CBA-CGA-O2A-C1
14	A	820	LHG	C30-C31-C32-C33
13	A	832	CL7	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
16	A	833	LMT	C11-C10-C9-C8
20	B	827	LMG	C37-C38-C39-C40
13	K	102	CL7	O1D-CGD-O2D-CED
13	B	826	CL7	O1A-CGA-O2A-C1
13	B	805	CL7	C3-C5-C6-C7
13	L	207	CL7	C3-C5-C6-C7
13	A	807	CL7	C1A-C2A-CAA-CBA
13	A	808	CL7	C1A-C2A-CAA-CBA
13	A	811	CL7	C1A-C2A-CAA-CBA
13	A	822	CL7	C1A-C2A-CAA-CBA
13	A	824	CL7	C1A-C2A-CAA-CBA
13	A	831	CL7	C1A-C2A-CAA-CBA
13	A	836	CL7	C1A-C2A-CAA-CBA
13	A	840	CL7	C1A-C2A-CAA-CBA
13	B	812	CL7	C1A-C2A-CAA-CBA
13	B	814	CL7	C1A-C2A-CAA-CBA
13	B	815	CL7	C1A-C2A-CAA-CBA
13	B	816	CL7	C1A-C2A-CAA-CBA
13	B	819	CL7	C1A-C2A-CAA-CBA
13	B	821	CL7	C1A-C2A-CAA-CBA
13	B	828	CL7	C1A-C2A-CAA-CBA
13	B	829	CL7	C1A-C2A-CAA-CBA
13	B	832	CL7	C1A-C2A-CAA-CBA
13	B	837	CL7	C1A-C2A-CAA-CBA
13	B	838	CL7	C1A-C2A-CAA-CBA
13	B	840	CL7	C1A-C2A-CAA-CBA
13	B	841	CL7	C1A-C2A-CAA-CBA
13	F	202	CL7	C1A-C2A-CAA-CBA
13	L	201	CL7	C1A-C2A-CAA-CBA
13	A	855	CL7	O1D-CGD-O2D-CED
13	L	205	CL7	C15-C16-C17-C18
13	B	812	CL7	O1D-CGD-O2D-CED
13	B	822	CL7	O1A-CGA-O2A-C1
13	L	205	CL7	O1A-CGA-O2A-C1
14	A	820	LHG	O6-C4-C5-C6
16	B	835	LMT	C7-C8-C9-C10
13	B	829	CL7	C2C-C3C-CAC-CBC
13	A	808	CL7	C11-C10-C8-C7
13	A	811	CL7	C12-C13-C15-C16
13	A	812	CL7	C6-C7-C8-C10
13	A	823	CL7	C12-C13-C15-C16
13	A	824	CL7	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
13	A	830	CL7	C11-C10-C8-C7
13	B	818	CL7	C12-C13-C15-C16
13	B	822	CL7	C12-C13-C15-C16
13	B	825	CL7	C11-C12-C13-C15
13	B	828	CL7	C12-C13-C15-C16
13	J	102	CL7	C11-C10-C8-C7
15	A	826	PQN	C17-C18-C20-C21
14	L	208	LHG	C11-C10-C9-C8
13	B	818	CL7	O1D-CGD-O2D-CED
13	A	838	CL7	C4-C3-C5-C6
13	A	811	CL7	C2-C3-C5-C6
14	A	821	LHG	C28-C29-C30-C31
13	A	822	CL7	O1A-CGA-O2A-C1
13	A	802	CL7	C2A-CAA-CBA-CGA
13	A	838	CL7	C2A-CAA-CBA-CGA
13	B	814	CL7	C2A-CAA-CBA-CGA
13	A	808	CL7	C11-C12-C13-C14
13	A	812	CL7	C6-C7-C8-C9
13	A	823	CL7	C14-C13-C15-C16
13	A	824	CL7	C11-C10-C8-C9
13	L	204	CL7	C6-C7-C8-C9
18	A	849	PHO	C6-C7-C8-C9
13	B	819	CL7	C16-C17-C18-C19
13	A	823	CL7	C13-C15-C16-C17
13	B	804	CL7	O1D-CGD-O2D-CED
16	K	104	LMT	C2'-C1'-O1'-C1
14	A	820	LHG	C4-C5-C6-O8
13	A	838	CL7	O1D-CGD-O2D-CED
13	B	825	CL7	O1D-CGD-O2D-CED
16	A	834	LMT	C3-C4-C5-C6
13	A	814	CL7	C11-C12-C13-C15
18	B	801	PHO	CHA-CBD-CGD-O2D
13	B	828	CL7	C10-C11-C12-C13
13	B	832	CL7	O1A-CGA-O2A-C1
14	A	821	LHG	C26-C27-C28-C29
13	A	811	CL7	C4-C3-C5-C6
13	B	815	CL7	C4-C3-C5-C6
14	A	820	LHG	C29-C30-C31-C32
13	B	812	CL7	C11-C12-C13-C15
13	F	201	CL7	C11-C12-C13-C15
13	A	839	CL7	C8-C10-C11-C12
13	B	821	CL7	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
13	A	806	CL7	CBA-CGA-O2A-C1
13	A	839	CL7	CBA-CGA-O2A-C1
16	B	836	LMT	C7-C8-C9-C10
16	F	203	LMT	C4'-C5'-C6'-O6'
13	B	812	CL7	O2A-C1-C2-C3
14	L	208	LHG	C13-C14-C15-C16
13	A	806	CL7	C10-C11-C12-C13
14	A	821	LHG	C13-C14-C15-C16
13	A	819	CL7	C4-C3-C5-C6
13	A	838	CL7	C2-C3-C5-C6
14	A	821	LHG	C11-C12-C13-C14
13	A	804	CL7	C3-C5-C6-C7
14	L	208	LHG	C28-C29-C30-C31
14	A	820	LHG	C35-C36-C37-C38
13	B	808	CL7	CBA-CGA-O2A-C1
13	A	836	CL7	CAA-CBA-CGA-O2A
20	B	827	LMG	C12-C13-C14-C15
14	A	821	LHG	C9-C10-C11-C12
13	B	814	CL7	O1D-CGD-O2D-CED
13	B	805	CL7	C8-C10-C11-C12
13	A	804	CL7	C6-C7-C8-C10
13	B	825	CL7	C16-C17-C18-C19
13	B	806	CL7	C4-C3-C5-C6
16	B	835	LMT	C2-C1-O1'-C1'
16	K	104	LMT	C2-C1-O1'-C1'
13	A	811	CL7	C14-C13-C15-C16
13	A	825	CL7	C11-C12-C13-C14
13	A	827	CL7	C11-C10-C8-C9
13	A	830	CL7	C11-C10-C8-C9
13	B	822	CL7	C14-C13-C15-C16
13	B	825	CL7	C11-C12-C13-C14
13	J	102	CL7	C11-C10-C8-C9
13	L	205	CL7	C11-C12-C13-C14
15	A	826	PQN	C19-C18-C20-C21
14	A	820	LHG	C11-C12-C13-C14
14	L	208	LHG	C12-C13-C14-C15
13	B	826	CL7	C13-C15-C16-C17
13	B	812	CL7	C11-C12-C13-C14
16	A	844	LMT	C2'-C1'-O1'-C1
16	B	836	LMT	C2'-C1'-O1'-C1
13	A	808	CL7	C11-C12-C13-C15
13	A	809	CL7	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
13	A	812	CL7	C11-C10-C8-C7
13	A	825	CL7	C12-C13-C15-C16
13	A	827	CL7	C11-C10-C8-C7
13	A	832	CL7	C6-C7-C8-C10
13	B	812	CL7	C11-C10-C8-C7
13	B	825	CL7	C11-C10-C8-C7
13	J	102	CL7	C6-C7-C8-C10
13	L	204	CL7	C6-C7-C8-C10
13	L	205	CL7	C11-C12-C13-C15
13	L	205	CL7	C12-C13-C15-C16
15	A	826	PQN	C21-C22-C23-C25
18	A	849	PHO	C6-C7-C8-C10
13	B	806	CL7	C13-C15-C16-C17
13	A	806	CL7	O1A-CGA-O2A-C1
16	F	203	LMT	C4-C5-C6-C7
13	A	823	CL7	C3A-C2A-CAA-CBA
13	A	835	CL7	C4-C3-C5-C6
13	A	845	CL7	C3A-C2A-CAA-CBA
13	A	846	CL7	C3A-C2A-CAA-CBA
13	J	103	CL7	C3A-C2A-CAA-CBA
13	L	207	CL7	C3A-C2A-CAA-CBA
13	B	812	CL7	O1A-CGA-O2A-C1
16	A	844	LMT	C3-C4-C5-C6
13	J	102	CL7	C11-C12-C13-C15
13	A	841	CL7	C8-C10-C11-C12
14	L	208	LHG	C29-C30-C31-C32
13	A	807	CL7	C2A-CAA-CBA-CGA
13	A	812	CL7	C5-C6-C7-C8
14	L	208	LHG	C4-C5-C6-O8
13	A	804	CL7	C6-C7-C8-C9
13	B	819	CL7	C16-C17-C18-C20
13	A	808	CL7	C10-C11-C12-C13
13	B	808	CL7	C13-C15-C16-C17
13	A	818	CL7	C4-C3-C5-C6
13	A	841	CL7	C4-C3-C5-C6
13	B	806	CL7	C2-C3-C5-C6
14	A	820	LHG	O6-C4-C5-O7
14	A	821	LHG	O6-C4-C5-O7
14	A	820	LHG	C15-C16-C17-C18
19	A	853	WVN	C15-C13-C20-C23
19	M	101	WVN	C15-C13-C20-C23
13	B	808	CL7	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
13	A	811	CL7	C10-C11-C12-C13
13	J	102	CL7	C5-C6-C7-C8
14	L	208	LHG	C11-C12-C13-C14
13	A	803	CL7	C16-C17-C18-C19
13	A	812	CL7	C10-C11-C12-C13
20	B	827	LMG	C32-C33-C34-C35
13	A	818	CL7	C2-C3-C5-C6
13	A	835	CL7	C2-C3-C5-C6
16	A	834	LMT	C11-C10-C9-C8
13	A	823	CL7	C16-C17-C18-C20
13	B	808	CL7	C16-C17-C18-C19
13	B	831	CL7	CBA-CGA-O2A-C1
13	B	812	CL7	C11-C10-C8-C9
13	B	818	CL7	C14-C13-C15-C16
13	B	825	CL7	C11-C10-C8-C9
13	L	205	CL7	C14-C13-C15-C16
13	A	806	CL7	C16-C17-C18-C19
13	B	806	CL7	C16-C17-C18-C20
16	L	206	LMT	C1-C2-C3-C4
14	A	820	LHG	C10-C11-C12-C13
13	B	829	CL7	C4C-C3C-CAC-CBC
13	A	805	CL7	C2A-CAA-CBA-CGA
13	B	824	CL7	C2A-CAA-CBA-CGA
13	B	825	CL7	C16-C17-C18-C20
12	A	801	G9R	C3-C5-C6-C7
13	A	836	CL7	CBA-CGA-O2A-C1
14	A	821	LHG	C14-C15-C16-C17
13	A	808	CL7	O1D-CGD-O2D-CED
14	A	821	LHG	C27-C28-C29-C30
13	L	201	CL7	C5-C6-C7-C8
13	A	832	CL7	C11-C10-C8-C7
13	B	802	CL7	C12-C13-C15-C16
13	B	819	CL7	C11-C10-C8-C7
13	L	204	CL7	C11-C12-C13-C15
19	A	850	WVN	C29-C31-C32-C36
19	B	847	WVN	C11-C19-C22-C26
13	F	201	CL7	C8-C10-C11-C12
16	A	833	LMT	C2-C3-C4-C5
13	B	808	CL7	O1A-CGA-O2A-C1
20	B	827	LMG	C7-C8-O7-C10
13	B	831	CL7	O1A-CGA-O2A-C1
13	A	808	CL7	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
13	B	806	CL7	C5-C6-C7-C8
13	F	201	CL7	CBD-CGD-O2D-CED
20	B	827	LMG	C13-C14-C15-C16
13	A	808	CL7	C15-C16-C17-C18
13	L	204	CL7	C11-C12-C13-C14
20	B	827	LMG	C34-C35-C36-C37
13	A	835	CL7	O1A-CGA-O2A-C1
19	K	101	WVN	C02-C11-C19-C22
14	A	821	LHG	C16-C17-C18-C19
13	A	836	CL7	O1A-CGA-O2A-C1
13	B	802	CL7	C2-C1-O2A-CGA
13	A	811	CL7	C16-C17-C18-C20
13	A	823	CL7	C16-C17-C18-C19
13	A	841	CL7	C11-C12-C13-C14
14	L	208	LHG	C5-C4-O6-P
14	L	208	LHG	C16-C17-C18-C19
13	B	821	CL7	C4-C3-C5-C6
13	B	828	CL7	C3-C5-C6-C7
13	A	842	CL7	C5-C6-C7-C8
13	A	840	CL7	C16-C17-C18-C19
13	A	812	CL7	O1A-CGA-O2A-C1
13	B	803	CL7	C5-C6-C7-C8
13	A	830	CL7	O1D-CGD-O2D-CED
13	B	804	CL7	C13-C15-C16-C17
13	A	813	CL7	C1A-C2A-CAA-CBA
13	A	827	CL7	C1A-C2A-CAA-CBA
13	A	815	CL7	O1D-CGD-O2D-CED
13	A	835	CL7	CBA-CGA-O2A-C1
13	A	837	CL7	C4-C3-C5-C6
14	A	821	LHG	C33-C34-C35-C36
13	A	806	CL7	C11-C10-C8-C7
13	B	802	CL7	C11-C10-C8-C7
13	B	808	CL7	C12-C13-C15-C16
13	B	815	CL7	C11-C12-C13-C15
13	B	819	CL7	C12-C13-C15-C16
18	A	849	PHO	C11-C12-C13-C15
13	A	803	CL7	C16-C17-C18-C20
13	A	815	CL7	CBA-CGA-O2A-C1
13	B	812	CL7	C2A-CAA-CBA-CGA
13	B	843	CL7	C2A-CAA-CBA-CGA
13	A	809	CL7	C11-C10-C8-C9
13	A	832	CL7	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
13	B	802	CL7	C14-C13-C15-C16
13	A	835	CL7	C6-C7-C8-C10
13	B	825	CL7	C8-C10-C11-C12
19	L	210	WVN	C01-C02-C11-C19
12	A	801	G9R	O1A-CGA-O2A-C1
20	L	203	LMG	O1-C7-C8-O7
13	A	830	CL7	C10-C11-C12-C13
13	A	832	CL7	C13-C15-C16-C17
20	B	827	LMG	C24-C25-C26-C27
13	A	806	CL7	C2B-C3B-CAB-OBB
13	A	808	CL7	C2B-C3B-CAB-OBB
13	A	811	CL7	C2B-C3B-CAB-OBB
13	A	812	CL7	C2B-C3B-CAB-OBB
13	A	817	CL7	C2B-C3B-CAB-OBB
13	A	827	CL7	C2B-C3B-CAB-OBB
13	A	838	CL7	C2B-C3B-CAB-OBB
13	A	843	CL7	C2B-C3B-CAB-OBB
13	B	802	CL7	CAD-CBD-CGD-O2D
13	B	805	CL7	C2B-C3B-CAB-OBB
13	B	809	CL7	C2B-C3B-CAB-OBB
13	B	810	CL7	C2B-C3B-CAB-OBB
13	B	813	CL7	C2B-C3B-CAB-OBB
13	B	834	CL7	C2B-C3B-CAB-OBB
13	B	846	CL7	C2B-C3B-CAB-OBB
13	F	201	CL7	C2B-C3B-CAB-OBB
13	F	202	CL7	C2B-C3B-CAB-OBB
16	A	833	LMT	C4'-C5'-C6'-O6'
13	A	812	CL7	CBA-CGA-O2A-C1
16	A	833	LMT	O5'-C1'-O1'-C1
18	B	801	PHO	C2A-CAA-CBA-CGA
20	L	203	LMG	C21-C22-C23-C24
13	A	823	CL7	O1A-CGA-O2A-C1
16	A	844	LMT	C4-C5-C6-C7
13	A	804	CL7	CHA-CBD-CGD-O2D
13	A	804	CL7	CHA-CBD-CGD-O1D
13	A	830	CL7	CAD-CBD-CGD-O1D
13	A	848	CL7	CHA-CBD-CGD-O1D
13	B	802	CL7	CAD-CBD-CGD-O1D
13	B	808	CL7	CAD-CBD-CGD-O1D
13	B	838	CL7	CHA-CBD-CGD-O1D
14	A	820	LHG	C3-O3-P-O5
14	A	820	LHG	C4-O6-P-O5

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Mol	Chain	Res	Type	Atoms
14	A	821	LHG	C3-O3-P-O5
18	A	849	PHO	CHA-CBD-CGD-O2D
18	B	801	PHO	CHA-CBD-CGD-O1D
13	B	808	CL7	C3-C5-C6-C7
13	A	815	CL7	O1A-CGA-O2A-C1
22	B	845	K3I	C11-C12-C13-C20
14	A	820	LHG	C32-C33-C34-C35
13	A	806	CL7	C5-C6-C7-C8
14	A	821	LHG	O6-C4-C5-C6
14	A	821	LHG	C31-C32-C33-C34
13	B	823	CL7	CBD-CGD-O2D-CED
13	A	812	CL7	C11-C10-C8-C9
13	A	825	CL7	C14-C13-C15-C16
13	A	832	CL7	C6-C7-C8-C9
13	L	207	CL7	C11-C12-C13-C14
13	B	825	CL7	C4-C3-C5-C6
13	A	819	CL7	C2-C3-C5-C6
13	A	840	CL7	C16-C17-C18-C20
16	L	206	LMT	C3-C4-C5-C6
14	A	821	LHG	C10-C11-C12-C13
13	B	823	CL7	C4-C3-C5-C6
20	L	203	LMG	O1-C7-C8-C9
13	A	832	CL7	O1D-CGD-O2D-CED
13	B	823	CL7	O1D-CGD-O2D-CED
14	A	820	LHG	C26-C27-C28-C29
13	B	804	CL7	O1A-CGA-O2A-C1
13	A	836	CL7	C2A-CAA-CBA-CGA
13	F	201	CL7	O1D-CGD-O2D-CED
19	L	209	WVN	C22-C26-C29-C31
16	B	835	LMT	O5'-C1'-O1'-C1
16	A	833	LMT	C3-C4-C5-C6
13	B	818	CL7	CBA-CGA-O2A-C1
13	A	832	CL7	O1A-CGA-O2A-C1
13	A	806	CL7	C11-C10-C8-C9
13	A	830	CL7	C6-C7-C8-C9
15	A	826	PQN	C21-C22-C23-C24
13	A	832	CL7	CBA-CGA-O2A-C1
13	B	804	CL7	CBA-CGA-O2A-C1
13	A	840	CL7	C15-C16-C17-C18
12	A	801	G9R	CBA-CGA-O2A-C1
13	B	818	CL7	O1A-CGA-O2A-C1
13	L	204	CL7	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
16	A	833	LMT	C9-C10-C11-C12
13	A	806	CL7	C12-C13-C15-C16
13	A	842	CL7	C4-C3-C5-C6
13	B	832	CL7	C3A-C2A-CAA-CBA
13	J	102	CL7	C3A-C2A-CAA-CBA
13	A	837	CL7	C2-C3-C5-C6
13	A	828	CL7	C8-C10-C11-C12
13	A	838	CL7	C11-C12-C13-C14
19	A	851	WVN	C24-C22-C26-C29
19	A	851	WVN	C38-C34-C37-C40
19	B	847	WVN	C24-C22-C26-C29
19	B	847	WVN	C27-C25-C28-C30
19	F	205	WVN	C35-C32-C36-C39
19	L	202	WVN	C24-C22-C26-C29
13	B	803	CL7	CBD-CGD-O2D-CED
13	A	816	CL7	C2-C1-O2A-CGA
19	K	101	WVN	C32-C36-C39-C40
20	B	827	LMG	C15-C16-C17-C18
13	B	803	CL7	C15-C16-C17-C18
13	A	836	CL7	CAA-CBA-CGA-O1A
14	L	208	LHG	C24-C25-C26-C27
13	A	806	CL7	C11-C12-C13-C14
13	A	808	CL7	C14-C13-C15-C16
13	B	802	CL7	C11-C10-C8-C9
13	B	815	CL7	C6-C7-C8-C9
14	A	820	LHG	C34-C35-C36-C37
13	A	818	CL7	C3-C5-C6-C7
13	B	825	CL7	C10-C11-C12-C13
19	B	847	WVN	C22-C26-C29-C31
13	B	822	CL7	C2A-CAA-CBA-CGA
13	A	823	CL7	C1A-C2A-CAA-CBA
19	A	851	WVN	C19-C22-C26-C29
19	A	851	WVN	C33-C34-C37-C40
19	B	847	WVN	C19-C22-C26-C29
19	B	847	WVN	C23-C25-C28-C30
19	F	205	WVN	C31-C32-C36-C39
19	L	202	WVN	C19-C22-C26-C29
19	A	850	WVN	C06-C13-C20-C23
19	A	851	WVN	C15-C13-C20-C23
19	A	854	WVN	C06-C13-C20-C23
19	L	209	WVN	C15-C13-C20-C23
22	B	845	K3I	C29-C31-C32-C33

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Mol	Chain	Res	Type	Atoms
13	A	816	CL7	CBA-CGA-O2A-C1
13	B	805	CL7	C15-C16-C17-C18
15	B	820	PQN	C13-C15-C16-C17
13	A	831	CL7	CAA-CBA-CGA-O1A
13	A	842	CL7	C2-C3-C5-C6
13	L	204	CL7	C2-C3-C5-C6
16	L	206	LMT	C4B-C5B-C6B-O6B
13	A	825	CL7	C11-C10-C8-C7
13	A	830	CL7	C6-C7-C8-C10
13	A	832	CL7	C11-C12-C13-C15
13	B	825	CL7	C6-C7-C8-C10
13	B	826	CL7	C12-C13-C15-C16
16	K	104	LMT	C1-C2-C3-C4
13	J	103	CL7	CAA-CBA-CGA-O1A
20	L	203	LMG	O7-C10-C11-C12
13	A	848	CL7	CAA-CBA-CGA-O2A
13	A	822	CL7	C4-C3-C5-C6
13	B	805	CL7	C4-C3-C5-C6
13	A	823	CL7	C5-C6-C7-C8
13	A	839	CL7	C13-C15-C16-C17
13	A	841	CL7	C2-C3-C5-C6
13	B	821	CL7	C2-C3-C5-C6
13	B	829	CL7	CAA-CBA-CGA-O2A
22	B	845	K3I	C11-C12-C13-C14
20	B	827	LMG	O7-C10-C11-C12
13	A	816	CL7	O1A-CGA-O2A-C1
13	A	803	CL7	C11-C12-C13-C14
13	A	836	CL7	C11-C10-C8-C9
13	A	811	CL7	C5-C6-C7-C8
13	J	103	CL7	CAA-CBA-CGA-O2A
13	A	819	CL7	CAA-CBA-CGA-O2A
13	A	831	CL7	CAA-CBA-CGA-O2A
13	B	843	CL7	CAA-CBA-CGA-O1A
13	L	204	CL7	C15-C16-C17-C18
13	F	206	CL7	CAA-CBA-CGA-O2A
13	J	102	CL7	C8-C10-C11-C12
14	A	821	LHG	O1-C1-C2-O2
13	B	826	CL7	C5-C6-C7-C8
15	A	826	PQN	C18-C20-C21-C22
13	F	202	CL7	CAA-CBA-CGA-O2A
13	A	848	CL7	CAA-CBA-CGA-O1A
13	B	838	CL7	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
18	A	849	PHO	CHA-CBD-CGD-O1D
13	A	815	CL7	C5-C6-C7-C8
14	A	821	LHG	O7-C5-C6-O8
13	A	807	CL7	C8-C10-C11-C12
13	A	803	CL7	C11-C10-C8-C7
13	A	836	CL7	C11-C10-C8-C7
13	B	815	CL7	C6-C7-C8-C10
13	B	838	CL7	CAA-CBA-CGA-O1A
13	F	206	CL7	CAA-CBA-CGA-O1A
13	B	829	CL7	CAA-CBA-CGA-O1A
13	B	828	CL7	C6-C7-C8-C9
13	F	201	CL7	C11-C10-C8-C9
13	A	846	CL7	C2A-CAA-CBA-CGA
13	A	807	CL7	C2-C1-O2A-CGA
13	A	813	CL7	C2-C1-O2A-CGA
13	A	829	CL7	C2-C1-O2A-CGA
13	B	805	CL7	C5-C6-C7-C8
13	A	802	CL7	C3A-C2A-CAA-CBA
13	B	834	CL7	C3A-C2A-CAA-CBA
13	B	833	CL7	CAA-CBA-CGA-O2A
16	B	835	LMT	C2'-C1'-O1'-C1
13	A	805	CL7	O2A-C1-C2-C3
13	A	807	CL7	O2A-C1-C2-C3
13	B	818	CL7	O2A-C1-C2-C3
14	L	208	LHG	C4-C5-O7-C7
18	A	849	PHO	O2A-C1-C2-C3
13	A	846	CL7	CAA-CBA-CGA-O2A
13	F	202	CL7	CAA-CBA-CGA-O1A
16	A	833	LMT	C7-C8-C9-C10
13	A	823	CL7	CBA-CGA-O2A-C1
13	B	803	CL7	O1A-CGA-O2A-C1
14	A	821	LHG	C34-C35-C36-C37
13	A	846	CL7	CAA-CBA-CGA-O1A
13	B	806	CL7	C10-C11-C12-C13
13	B	821	CL7	CBD-CGD-O2D-CED
16	F	203	LMT	O5'-C5'-C6'-O6'
13	J	102	CL7	CAA-CBA-CGA-O2A
13	B	833	CL7	CAA-CBA-CGA-O1A
13	B	815	CL7	C11-C12-C13-C14
13	B	843	CL7	CAA-CBA-CGA-O2A
13	B	817	CL7	CAA-CBA-CGA-O2A
13	A	806	CL7	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
13	A	815	CL7	C11-C12-C13-C15
13	B	828	CL7	C6-C7-C8-C10
13	F	201	CL7	C11-C10-C8-C7
18	A	849	PHO	C11-C10-C8-C7
18	A	849	PHO	C12-C13-C15-C16
19	A	854	WVN	C15-C13-C20-C23
19	J	104	WVN	C15-C13-C20-C23
12	A	801	G9R	C2-C1-O2A-CGA
13	A	817	CL7	C2-C1-O2A-CGA
13	B	832	CL7	C2-C1-O2A-CGA
13	B	821	CL7	C6-C7-C8-C9
13	A	828	CL7	CAA-CBA-CGA-O2A
13	A	835	CL7	CAA-CBA-CGA-O2A
13	A	839	CL7	CAA-CBA-CGA-O2A
14	A	820	LHG	O7-C7-C8-C9
14	A	821	LHG	O8-C23-C24-C25
13	A	815	CL7	C2-C3-C5-C6
14	L	208	LHG	O7-C7-C8-C9
13	I	102	CL7	CAA-CBA-CGA-O2A
13	A	825	CL7	CAA-CBA-CGA-O2A
13	B	823	CL7	C2-C3-C5-C6
13	B	825	CL7	C2-C3-C5-C6
14	A	820	LHG	C8-C7-O7-C5
13	B	826	CL7	C15-C16-C17-C18
13	A	818	CL7	C6-C7-C8-C9
13	A	817	CL7	CAA-CBA-CGA-O2A
14	A	820	LHG	O9-C7-O7-C5
13	A	824	CL7	C13-C15-C16-C17
13	A	812	CL7	C11-C12-C13-C14
13	A	825	CL7	C11-C10-C8-C9
13	A	832	CL7	C11-C12-C13-C14
13	A	805	CL7	CAA-CBA-CGA-O2A
16	F	203	LMT	C2-C3-C4-C5
13	A	802	CL7	C1A-C2A-CAA-CBA
13	B	817	CL7	C1A-C2A-CAA-CBA
13	A	815	CL7	C4-C3-C5-C6
13	A	822	CL7	CAA-CBA-CGA-O2A
13	A	837	CL7	CAA-CBA-CGA-O2A
13	L	201	CL7	CAA-CBA-CGA-O2A
18	B	801	PHO	CAA-CBA-CGA-O2A
19	L	210	WVN	C20-C23-C25-C28
13	B	821	CL7	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	A	811	CL7	C16-C17-C18-C19
13	B	807	CL7	CAA-CBA-CGA-O2A
18	A	849	PHO	CAA-CBA-CGA-O2A
16	K	104	LMT	C2-C3-C4-C5
20	B	827	LMG	O8-C28-C29-C30
13	A	814	CL7	C4B-C3B-CAB-OBB
13	A	839	CL7	C4B-C3B-CAB-OBB
13	A	841	CL7	C4B-C3B-CAB-OBB
13	B	809	CL7	C4B-C3B-CAB-OBB
13	B	818	CL7	C4B-C3B-CAB-OBB
13	B	834	CL7	C4B-C3B-CAB-OBB
13	B	846	CL7	C4B-C3B-CAB-OBB
13	A	837	CL7	C15-C16-C17-C18
13	B	806	CL7	C11-C10-C8-C7
13	L	201	CL7	C11-C12-C13-C15
14	L	208	LHG	C26-C27-C28-C29
13	B	803	CL7	O1D-CGD-O2D-CED
20	L	203	LMG	C11-C12-C13-C14
13	A	808	CL7	C3A-C2A-CAA-CBA
13	A	819	CL7	C3A-C2A-CAA-CBA
13	J	102	CL7	C4-C3-C5-C6
13	A	839	CL7	CAA-CBA-CGA-O1A
18	A	849	PHO	O1A-CGA-O2A-C1
16	B	835	LMT	C5-C6-C7-C8
13	A	828	CL7	CAA-CBA-CGA-O1A
13	J	102	CL7	CAA-CBA-CGA-O1A
13	L	207	CL7	C10-C11-C12-C13
18	A	849	PHO	C2A-CAA-CBA-CGA
13	A	803	CL7	C11-C10-C8-C9
13	B	826	CL7	C14-C13-C15-C16
18	A	849	PHO	C11-C12-C13-C14
13	L	201	CL7	CAA-CBA-CGA-O1A
13	B	822	CL7	C5-C6-C7-C8
19	I	101	WVN	C34-C37-C40-C39
15	B	820	PQN	C15-C16-C17-C18
13	A	839	CL7	C4-C3-C5-C6
14	L	208	LHG	O9-C7-C8-C9
13	A	837	CL7	CAA-CBA-CGA-O1A
13	B	807	CL7	CAA-CBA-CGA-O1A
13	A	805	CL7	CAA-CBA-CGA-O1A
14	A	820	LHG	O9-C7-C8-C9
18	A	849	PHO	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
18	B	801	PHO	CAA-CBA-CGA-O1A
13	A	825	CL7	CAA-CBA-CGA-O1A
13	B	804	CL7	C8-C10-C11-C12
13	A	846	CL7	O1D-CGD-O2D-CED
16	L	206	LMT	O5B-C5B-C6B-O6B
13	A	822	CL7	CAA-CBA-CGA-O1A
13	A	835	CL7	CAA-CBA-CGA-O1A
20	B	827	LMG	O10-C28-C29-C30
13	A	839	CL7	C2-C3-C5-C6
13	I	102	CL7	CAA-CBA-CGA-O1A
13	A	835	CL7	C2B-C3B-CAB-OBB
13	B	803	CL7	C2B-C3B-CAB-OBB
13	B	811	CL7	C2B-C3B-CAB-OBB
13	L	205	CL7	C2B-C3B-CAB-OBB
13	A	832	CL7	C5-C6-C7-C8
13	B	815	CL7	C13-C15-C16-C17
13	A	817	CL7	C8-C10-C11-C12
13	A	845	CL7	C2-C1-O2A-CGA
14	A	821	LHG	O10-C23-C24-C25
13	A	823	CL7	CAA-CBA-CGA-O2A
13	B	834	CL7	C2C-C3C-CAC-CBC
13	A	842	CL7	CAA-CBA-CGA-O2A
13	B	805	CL7	CAA-CBA-CGA-O2A
13	B	802	CL7	O1A-CGA-O2A-C1
12	A	801	G9R	CAA-CBA-CGA-O2A
13	B	828	CL7	CAA-CBA-CGA-O2A

There are no ring outliers.

77 monomers are involved in 120 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	823	CL7	1	0
13	A	817	CL7	3	0
13	A	809	CL7	2	0
13	B	829	CL7	1	0
13	B	824	CL7	1	0
13	B	833	CL7	6	0
13	A	819	CL7	3	0
13	A	812	CL7	1	0
13	J	102	CL7	4	0
13	L	204	CL7	1	0
13	B	806	CL7	3	0

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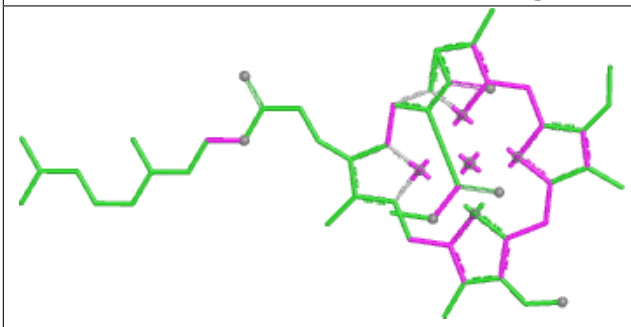
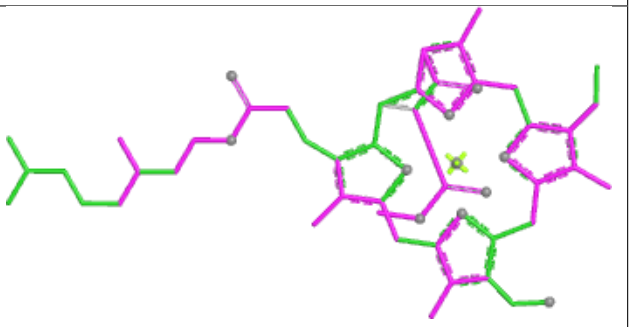
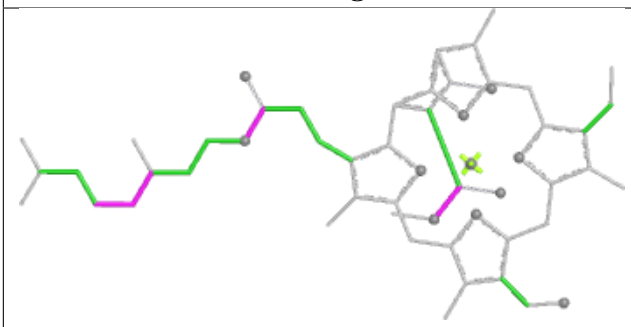
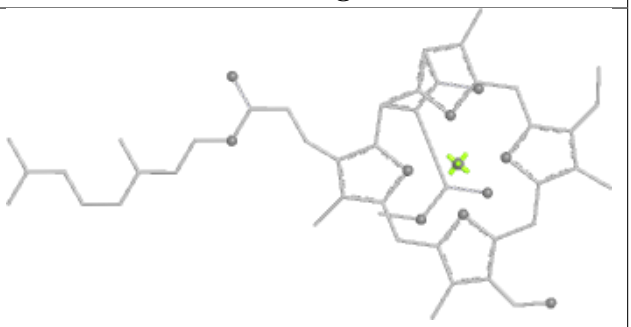
Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	814	CL7	1	0
13	A	837	CL7	1	0
13	B	826	CL7	1	0
13	B	805	CL7	1	0
16	F	203	LMT	2	0
13	F	201	CL7	1	0
13	A	805	CL7	2	0
13	A	814	CL7	3	0
13	B	817	CL7	2	0
13	A	815	CL7	2	0
13	B	810	CL7	1	0
13	B	832	CL7	2	0
13	B	838	CL7	1	0
13	B	803	CL7	1	0
13	B	825	CL7	1	0
13	A	804	CL7	1	0
13	A	824	CL7	1	0
19	B	848	WVN	1	0
13	L	207	CL7	2	0
13	A	825	CL7	1	0
13	A	832	CL7	3	0
16	A	833	LMT	1	0
13	L	205	CL7	3	0
18	A	849	PHO	2	0
13	A	806	CL7	2	0
16	L	206	LMT	1	0
13	B	846	CL7	12	0
13	B	821	CL7	2	0
19	B	847	WVN	1	0
13	B	816	CL7	1	0
13	B	834	CL7	1	0
13	L	201	CL7	4	0
13	A	830	CL7	2	0
13	B	843	CL7	1	0
13	A	841	CL7	1	0
20	B	827	LMG	3	0
13	B	822	CL7	2	0
13	B	808	CL7	1	0
13	A	835	CL7	2	0
13	A	823	CL7	2	0
13	A	808	CL7	3	0
13	B	819	CL7	1	0

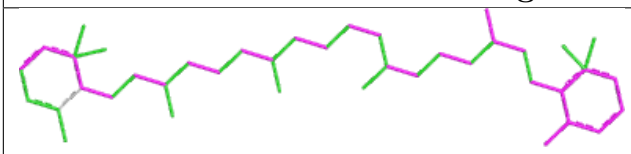
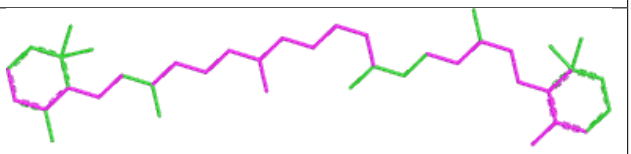
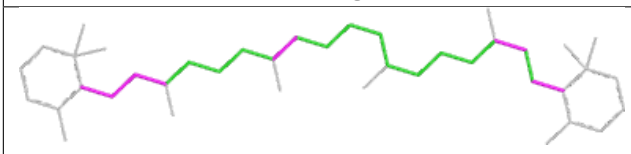
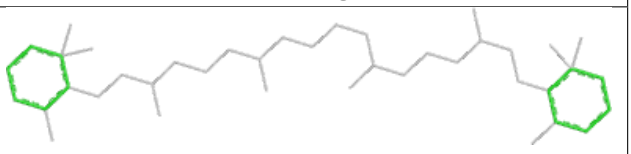
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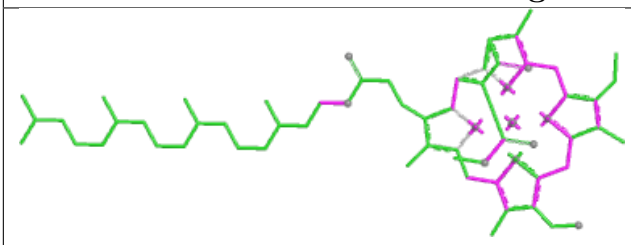
Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	A	850	WVN	1	0
14	L	208	LHG	6	0
13	A	855	CL7	1	0
13	A	803	CL7	4	0
13	B	815	CL7	1	0
13	A	840	CL7	2	0
13	B	828	CL7	2	0
19	A	853	WVN	1	0
13	F	206	CL7	1	0
13	B	818	CL7	2	0
13	B	831	CL7	1	0
14	A	821	LHG	1	0
19	J	101	WVN	1	0
19	F	204	WVN	2	0
13	B	802	CL7	3	0
13	A	802	CL7	2	0
13	B	841	CL7	4	0
18	B	801	PHO	3	0
13	B	804	CL7	1	0
13	A	827	CL7	2	0
13	A	843	CL7	1	0
13	B	840	CL7	1	0
13	A	828	CL7	1	0
20	L	203	LMG	2	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.

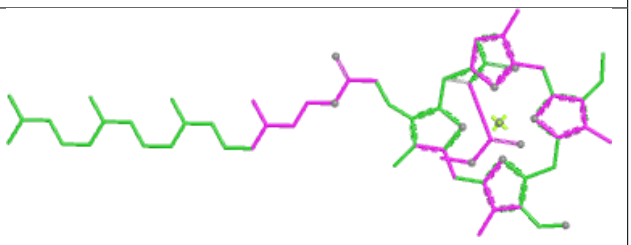
Ligand CL7 B 823	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand WVN F 205	
	
Bond lengths	Bond angles
	
Torsions	Rings

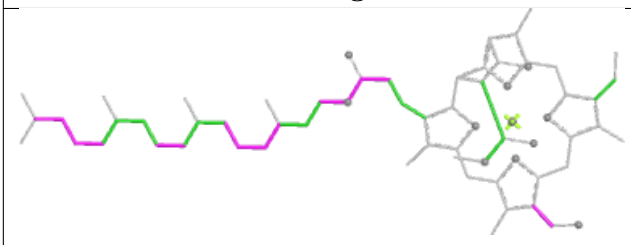
Ligand CL7 A 817



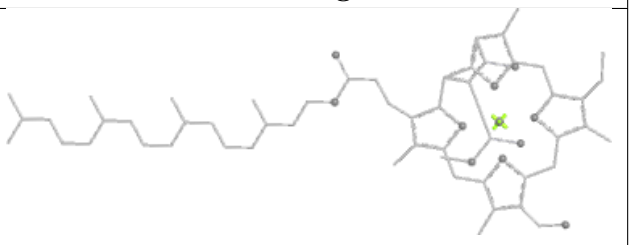
Bond lengths



Bond angles

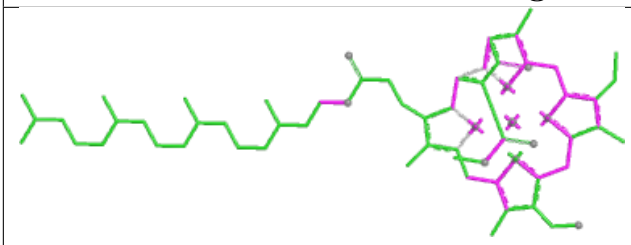


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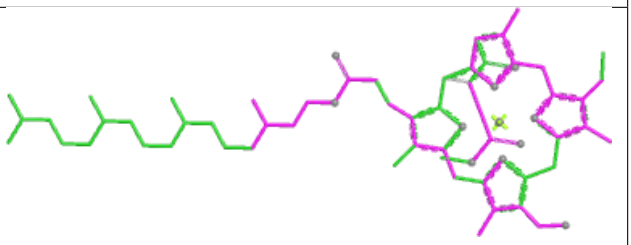


Rings

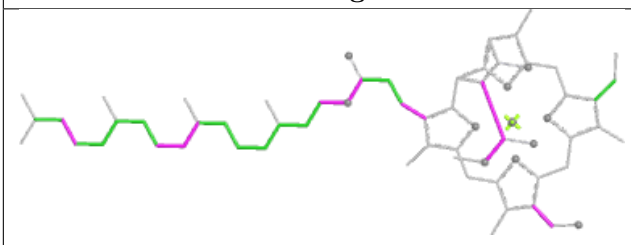
Ligand CL7 A 809



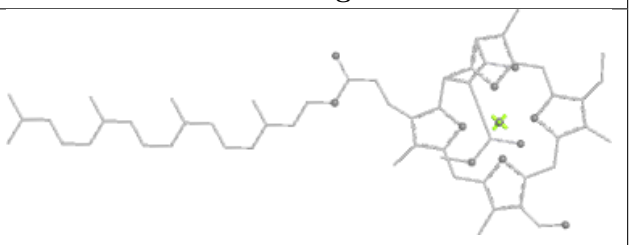
Bond lengths



Bond angles

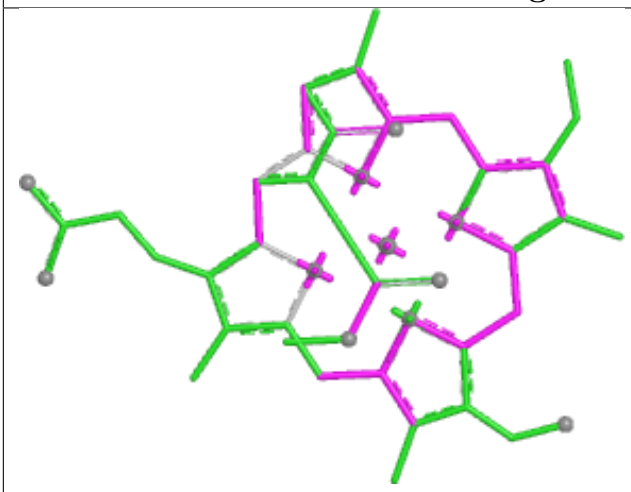


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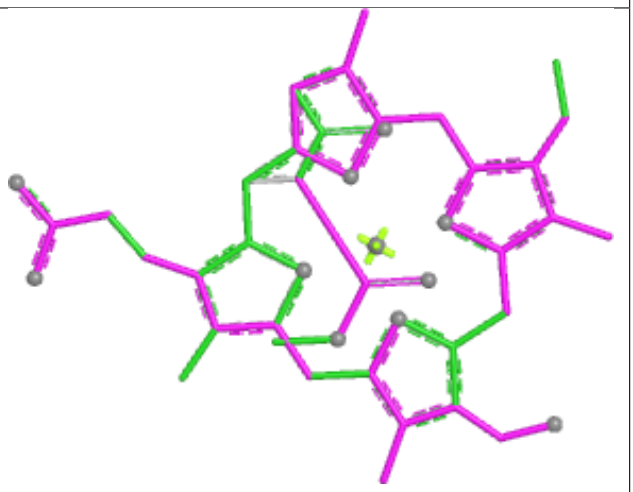


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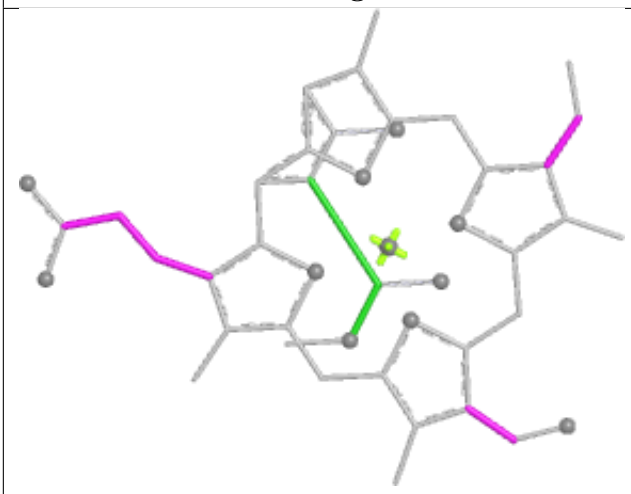
Ligand CL7 B 829



Bond lengths



Bond angles

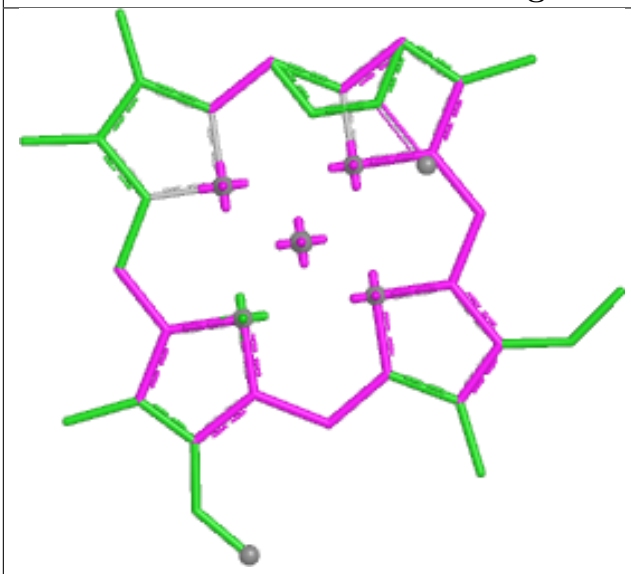


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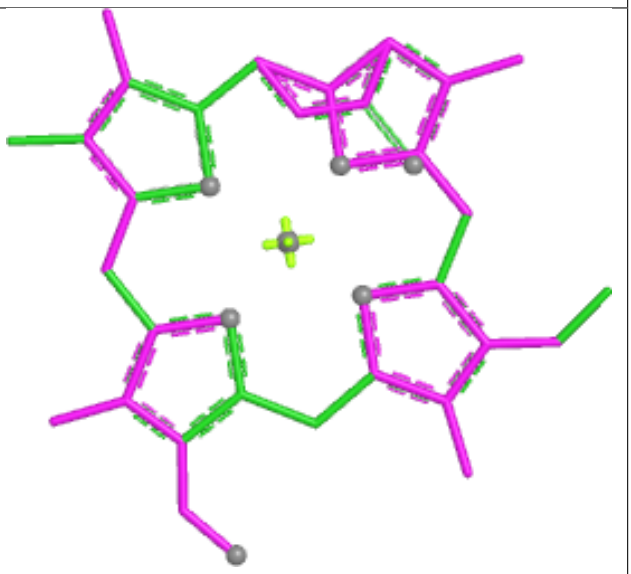


Rings

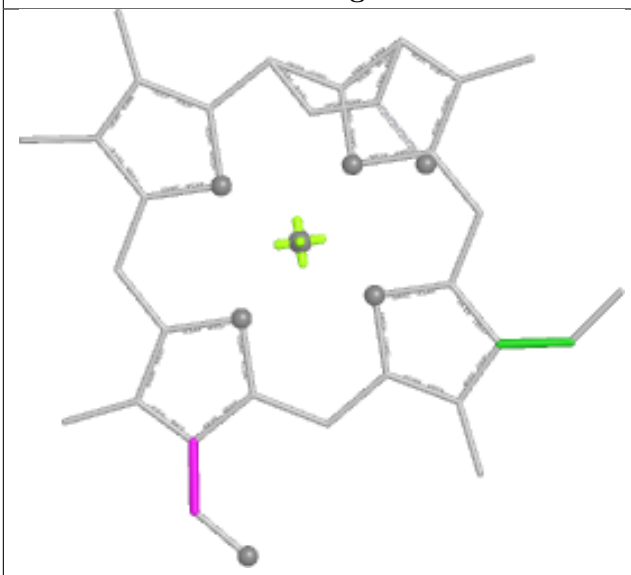
Ligand CL7 K 103



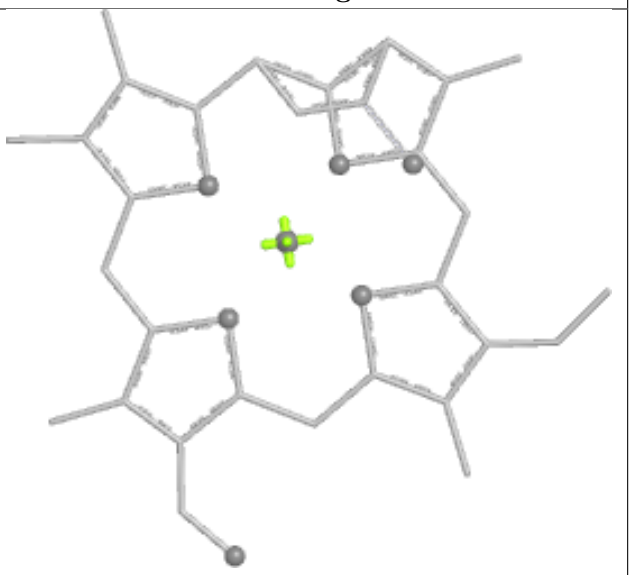
Bond lengths



Bond angles

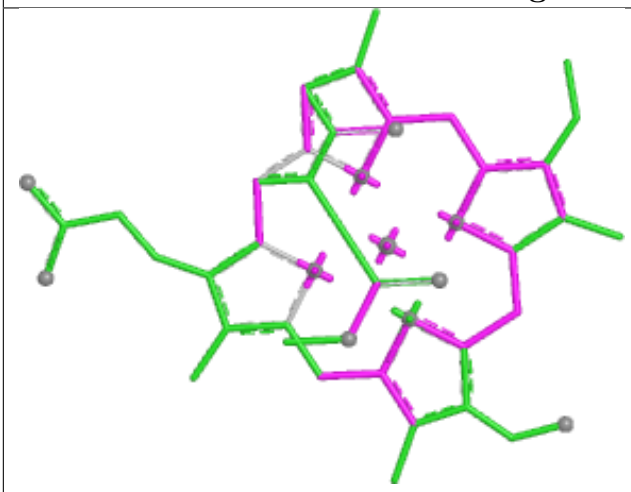


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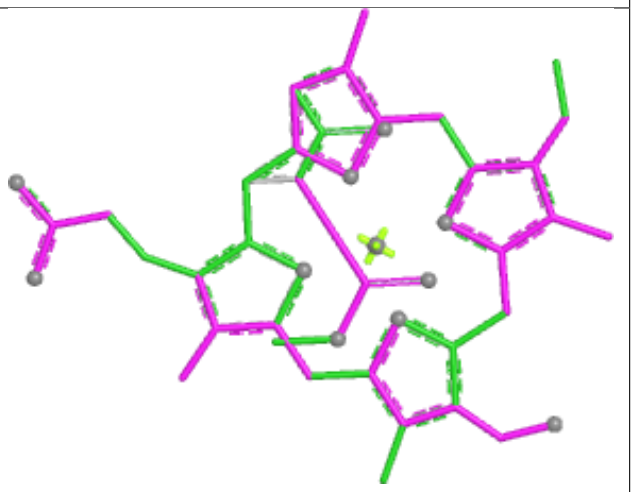


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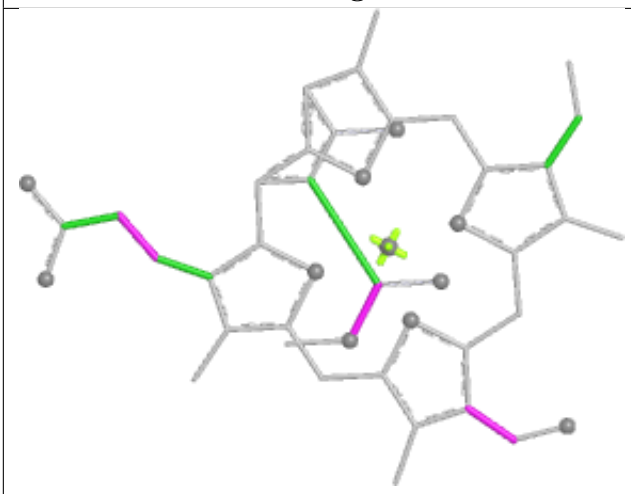
Ligand CL7 B 824



Bond lengths



Bond angles

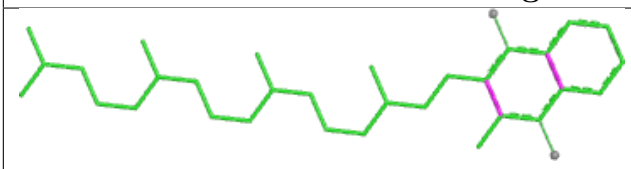


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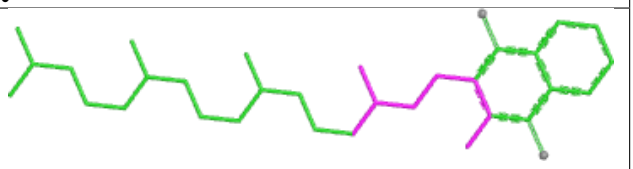


Rings

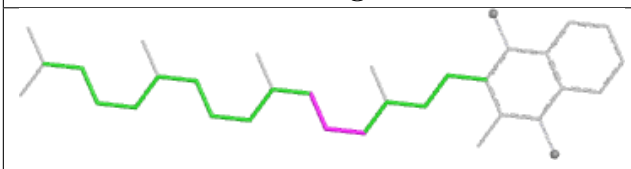
Ligand PQN B 820



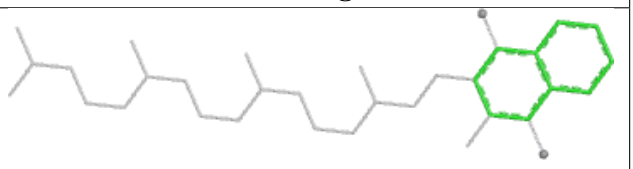
Bond lengths



Bond angles

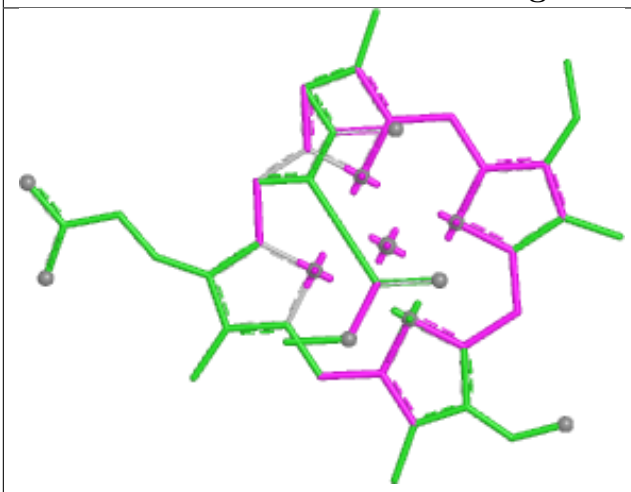


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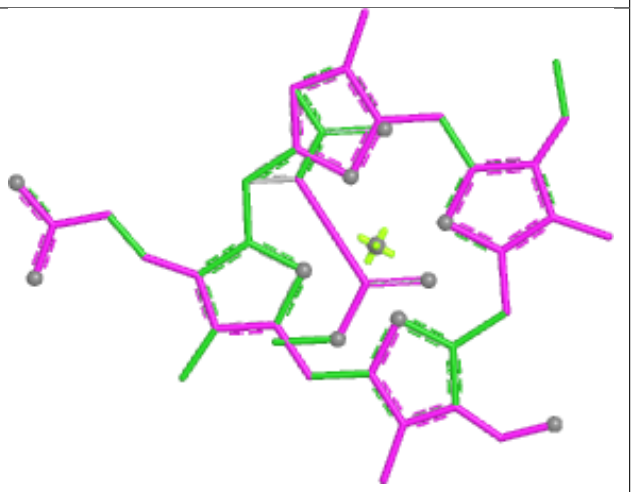


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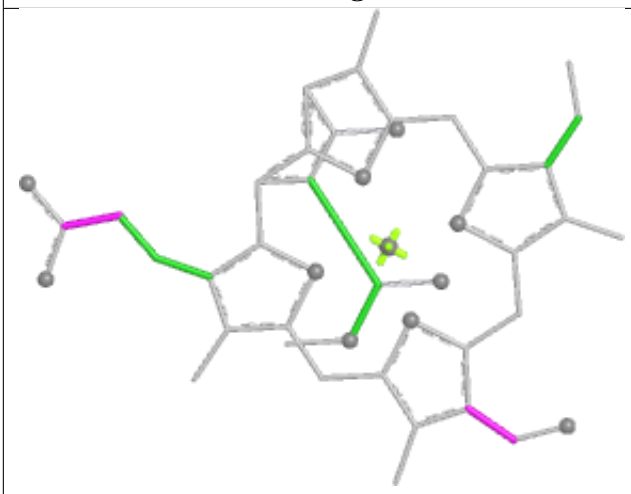
Ligand CL7 B 833



Bond lengths



Bond angles

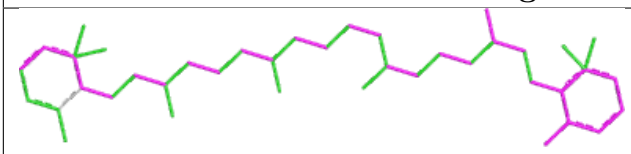


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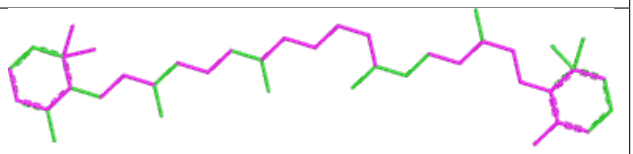


Rings

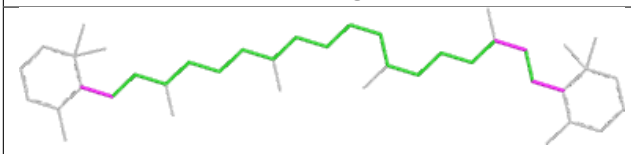
Ligand WVN J 104



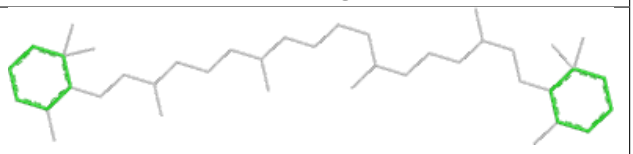
Bond lengths



Bond angles

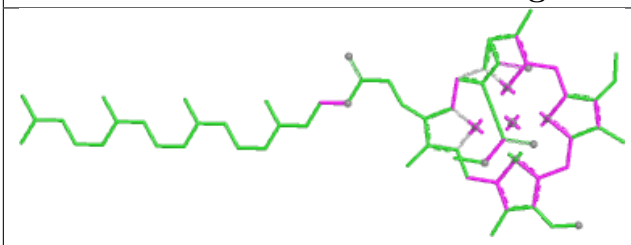


Torsions

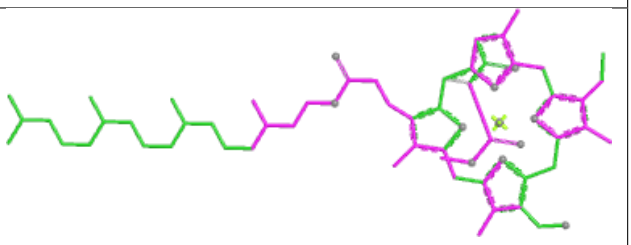


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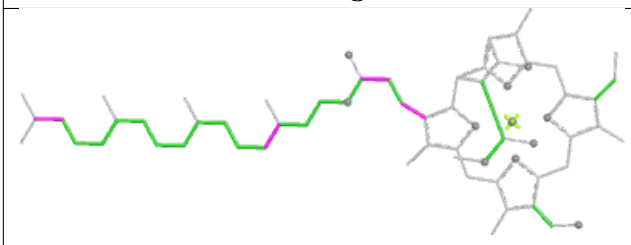
Ligand CL7 A 819



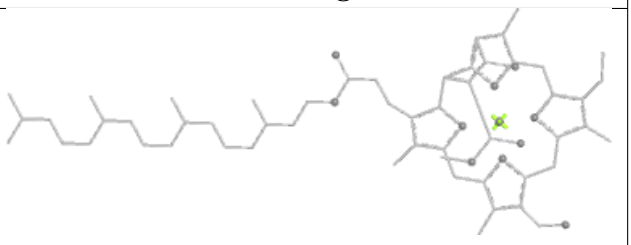
Bond lengths



Bond angles

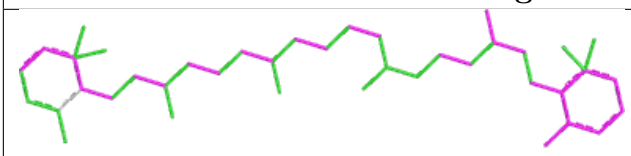


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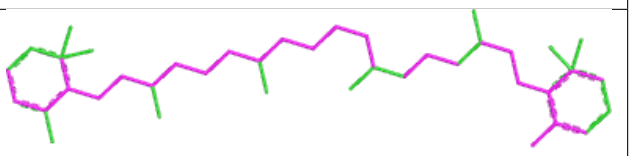


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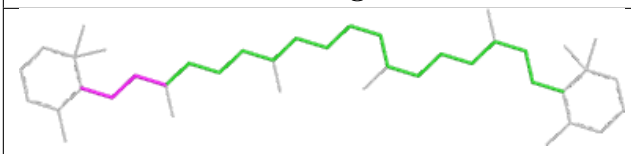
Ligand WVN A 852



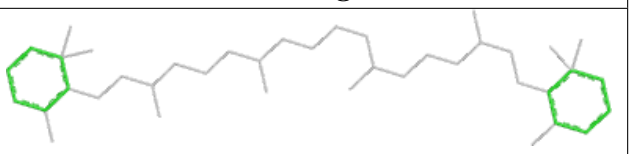
Bond lengths



Bond angles

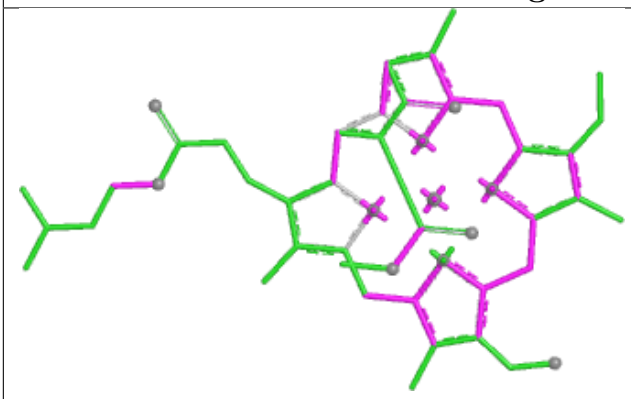


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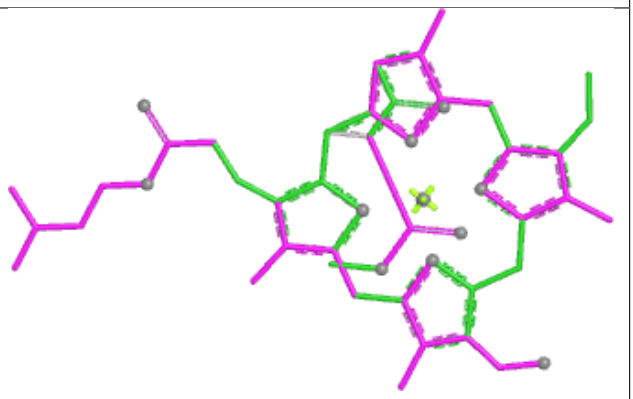


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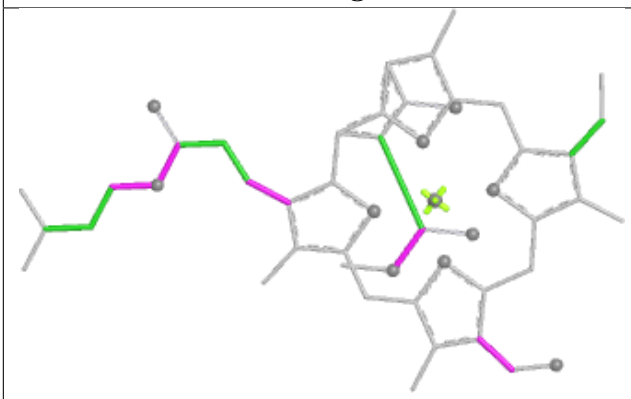
Ligand CL7 A 829



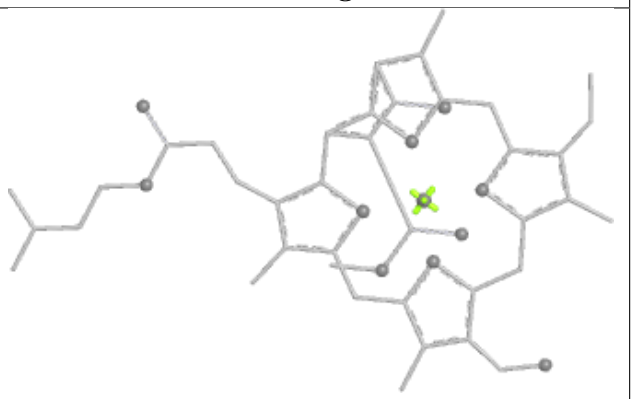
Bond lengths



Bond angles

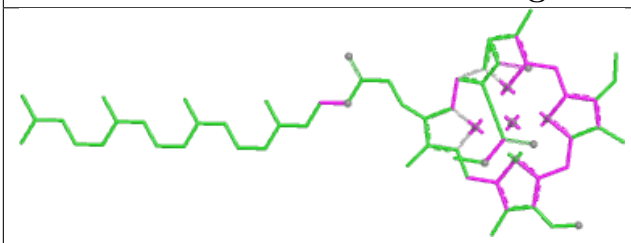


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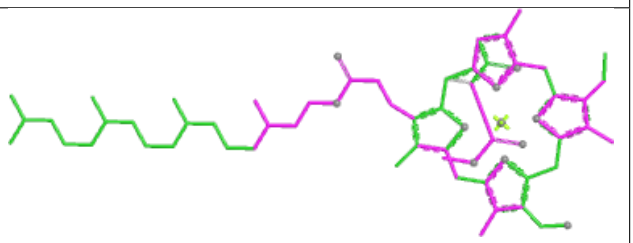


Rings

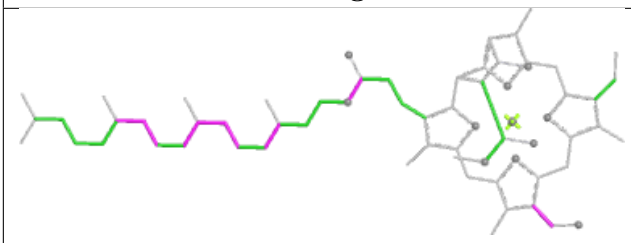
Ligand CL7 A 812



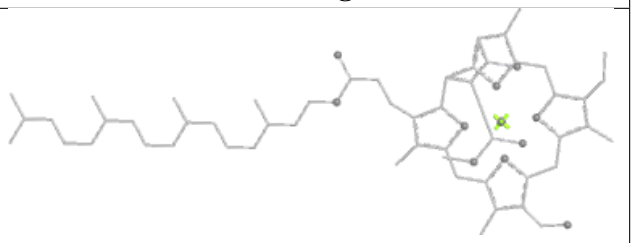
Bond lengths



Bond angles

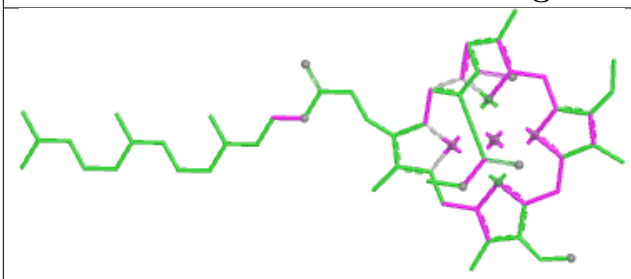


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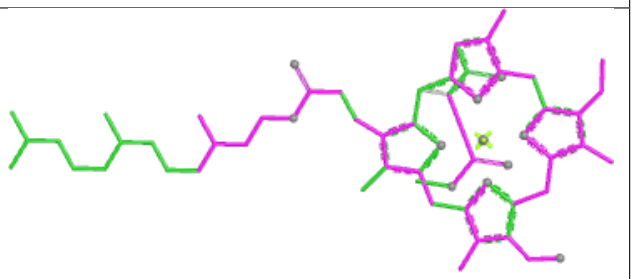


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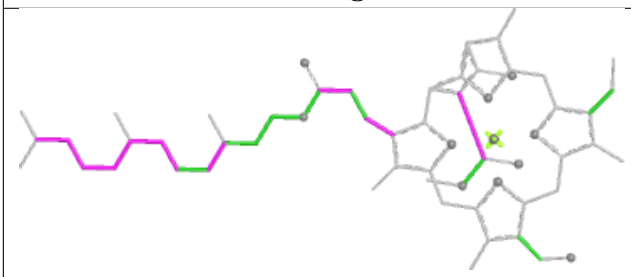
Ligand CL7 J 102



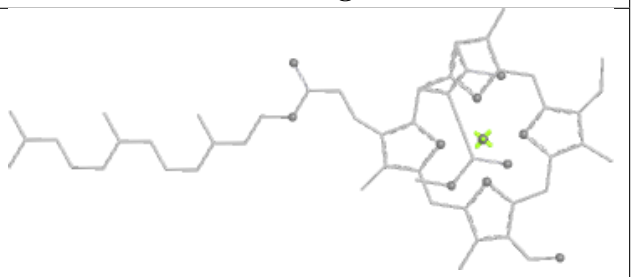
Bond lengths



Bond angles

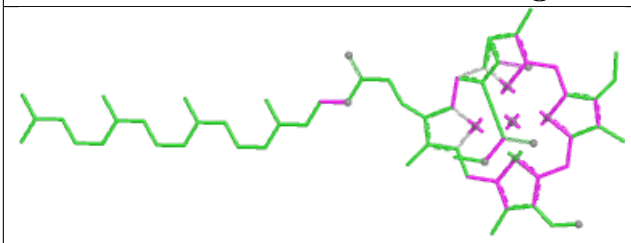


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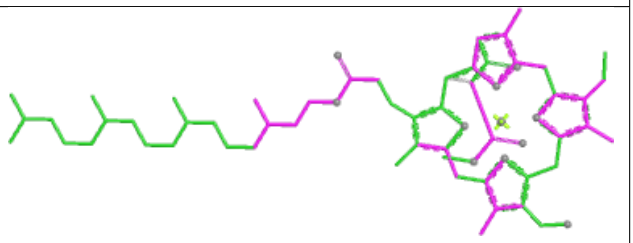


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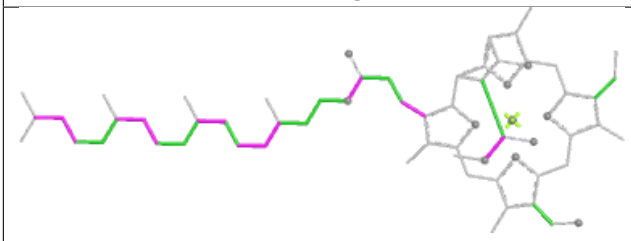
Ligand CL7 L 204



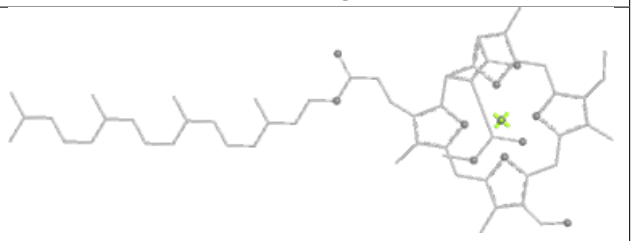
Bond lengths



Bond angles

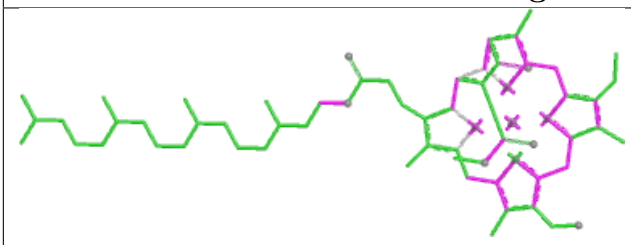


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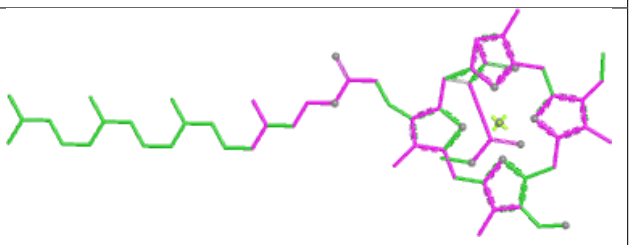


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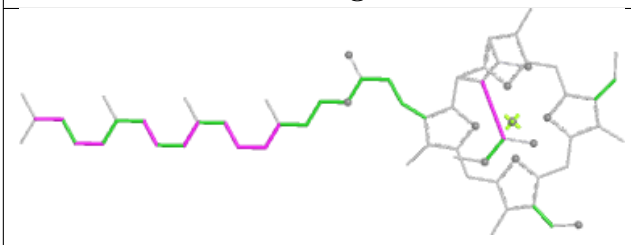
Ligand CL7 B 806



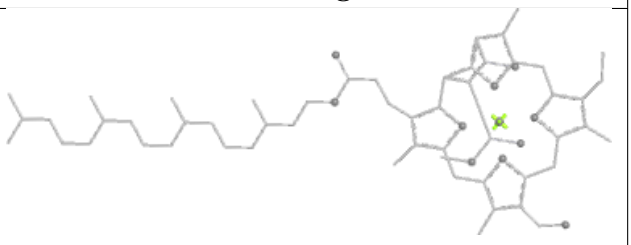
Bond lengths



Bond angles

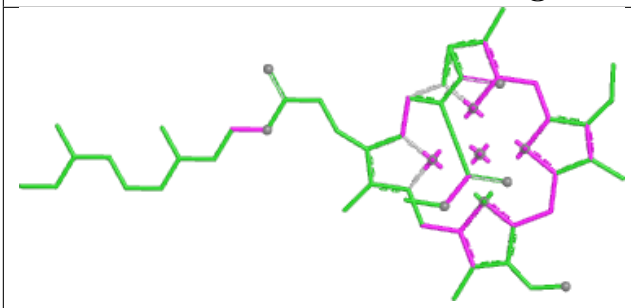


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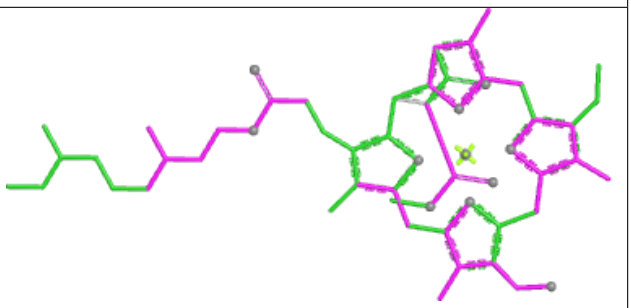


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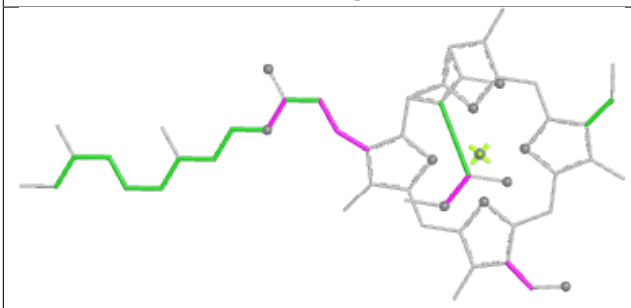
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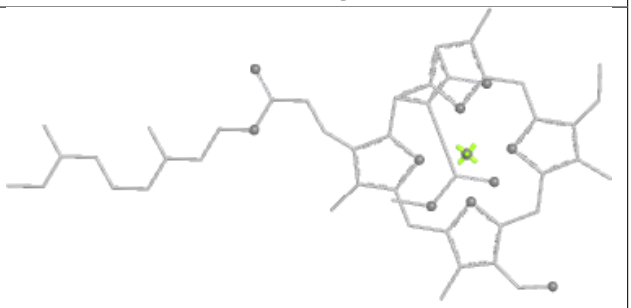
Bond lengths



Bond angles

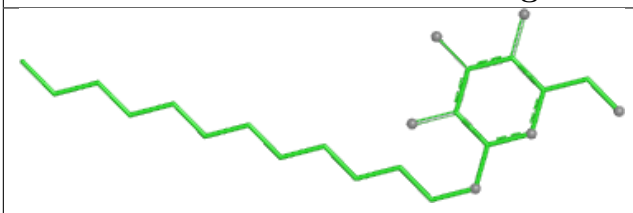


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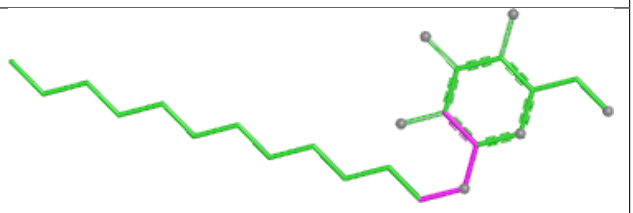


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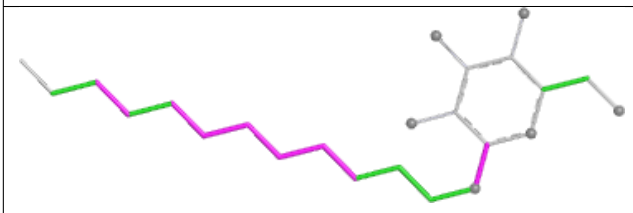
Ligand LMT A 844



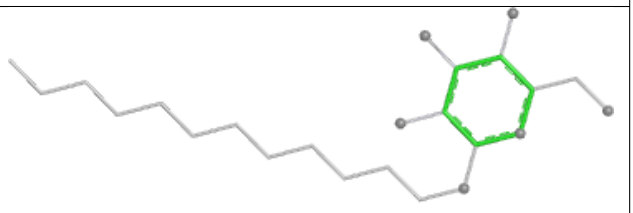
Bond lengths



Bond angles

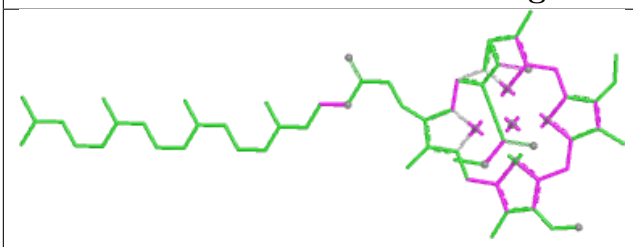


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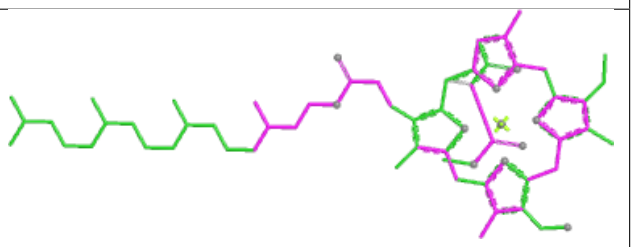


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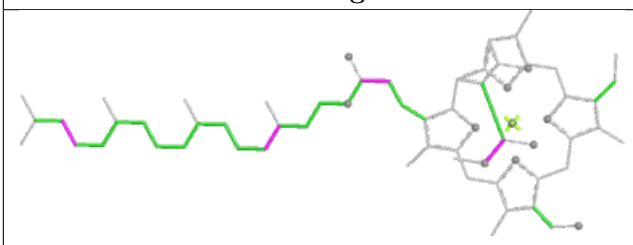
Ligand CL7 A 837



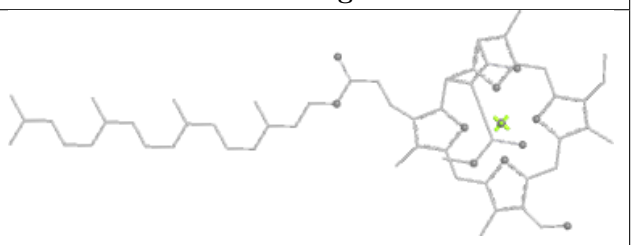
Bond lengths



Bond angles

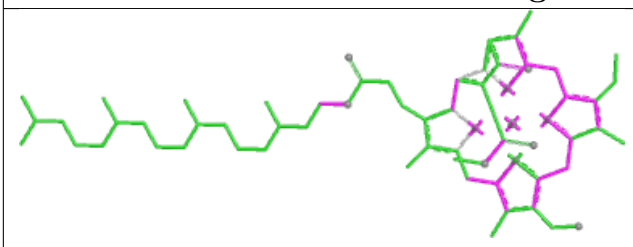


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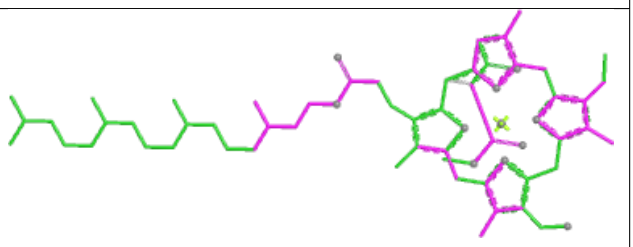


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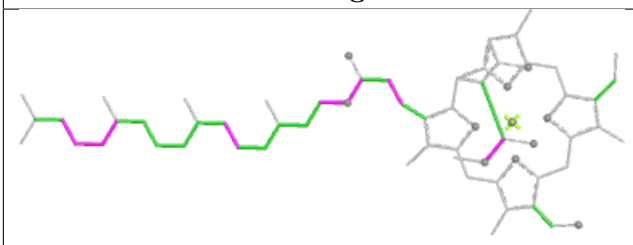
Ligand CL7 B 826



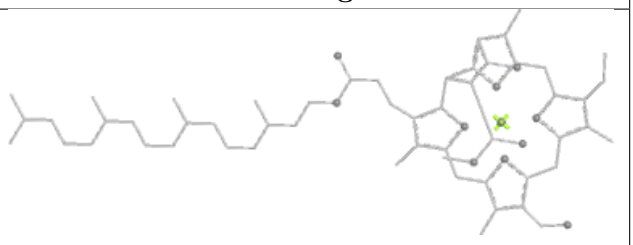
Bond lengths



Bond angles

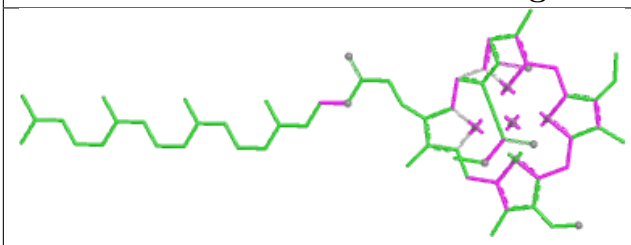


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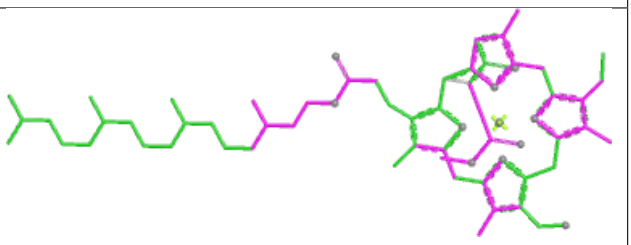


Rings

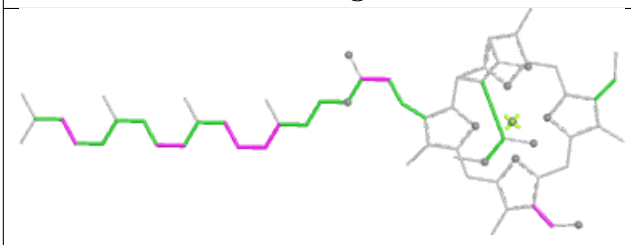
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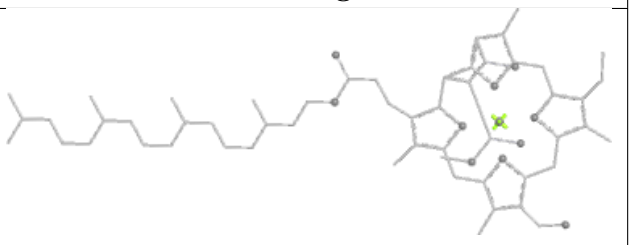
Bond lengths



Bond angles

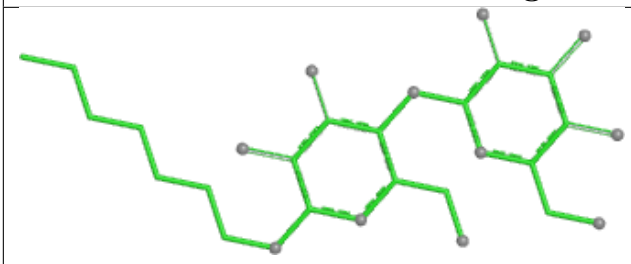


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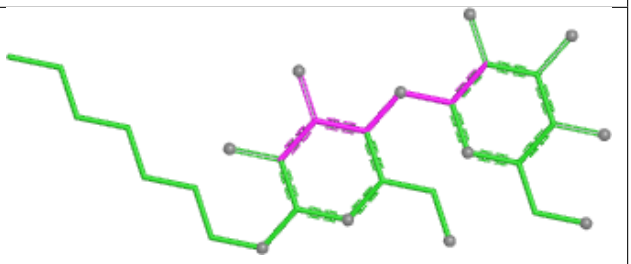


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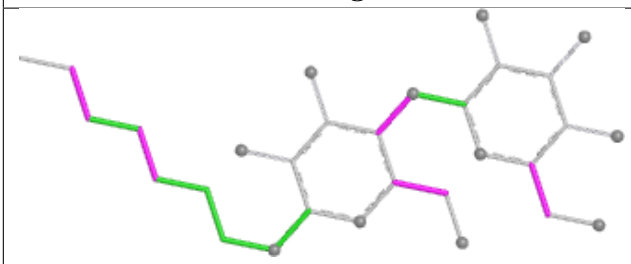
Ligand LMT F 203



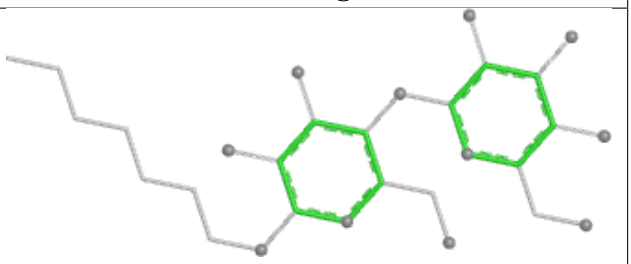
Bond lengths



Bond angles

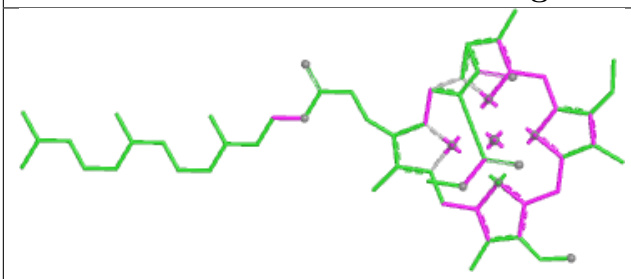


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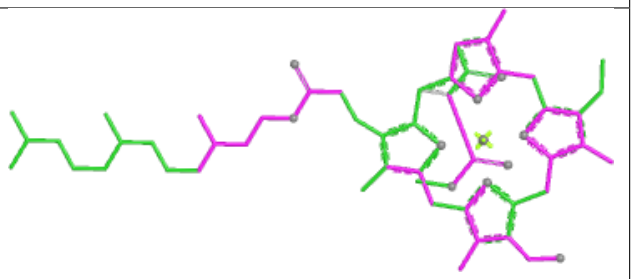


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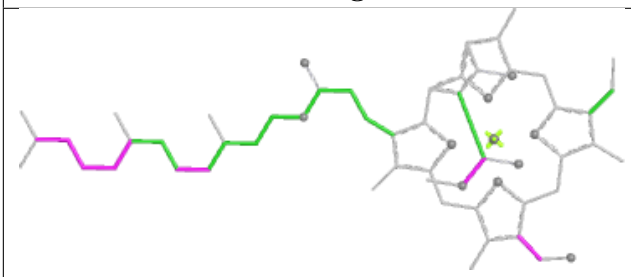
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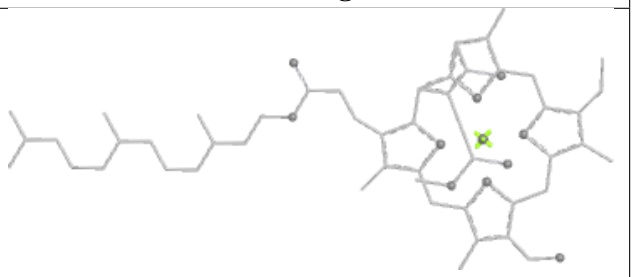
Bond lengths



Bond angles

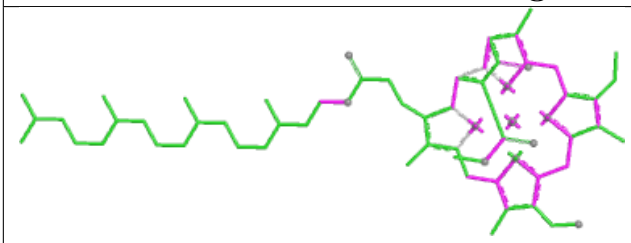


Torsions

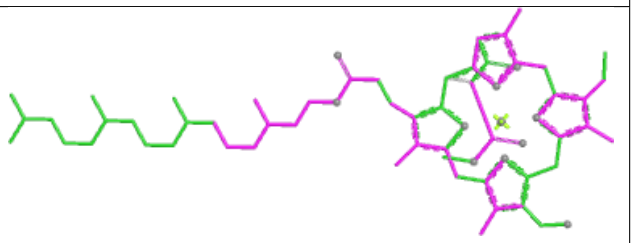


Rings

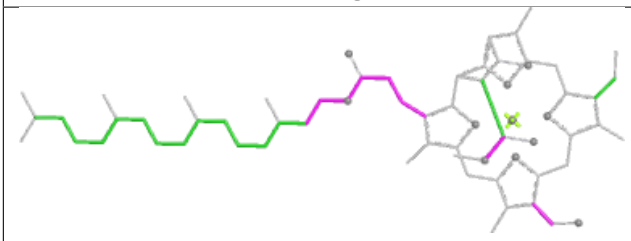
Ligand CL7 A 805



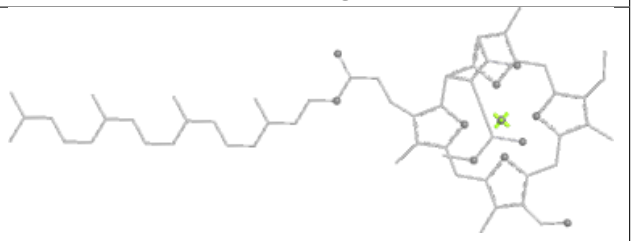
Bond lengths



Bond angles

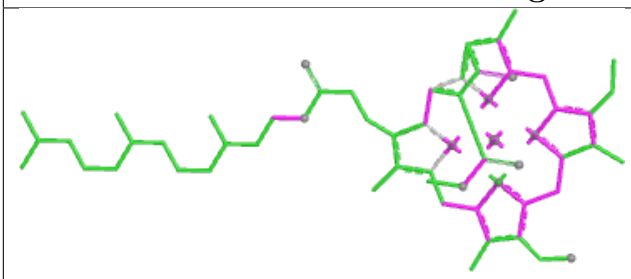


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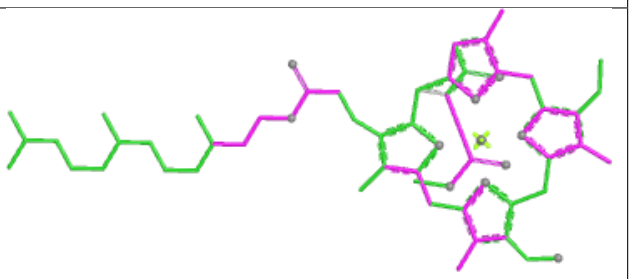


Rings

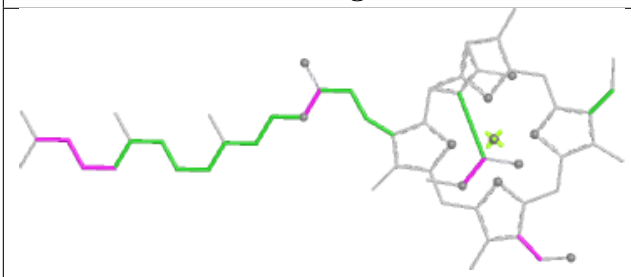
Ligand CL7 A 814



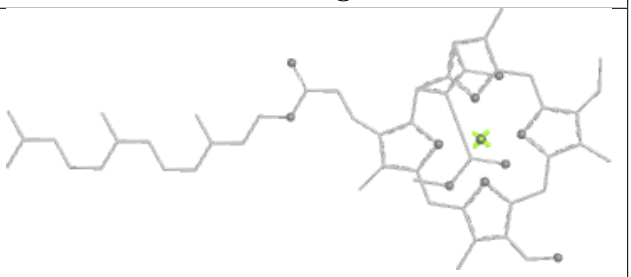
Bond lengths



Bond angles



Torsions

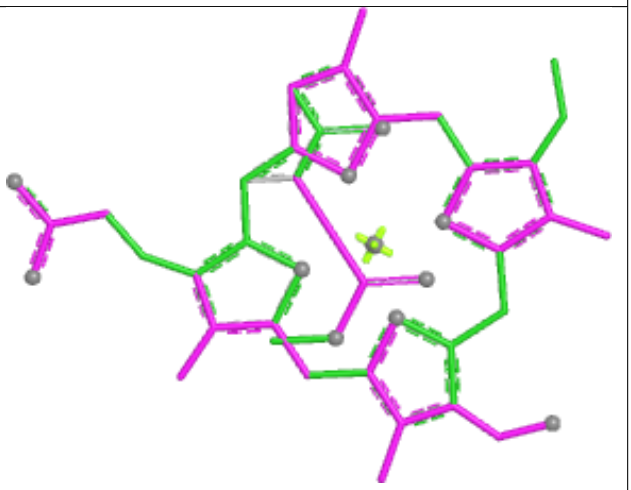


Rings

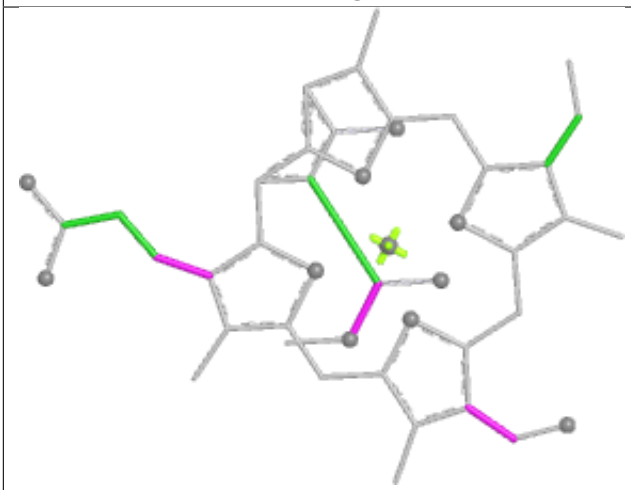
Ligand CL7 B 830



Bond lengths



Bond angles

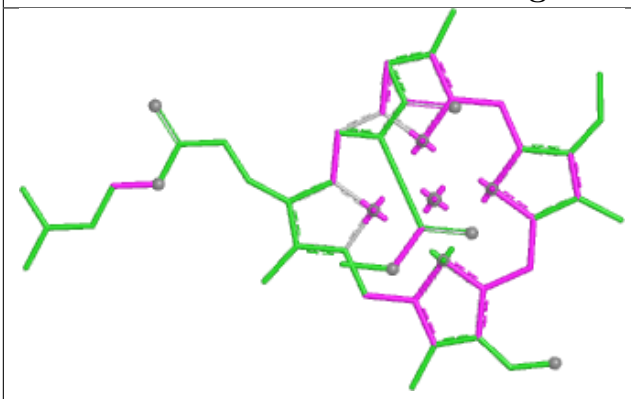


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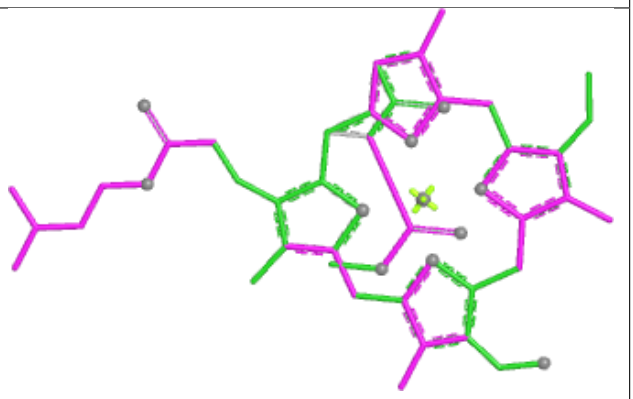


Rings

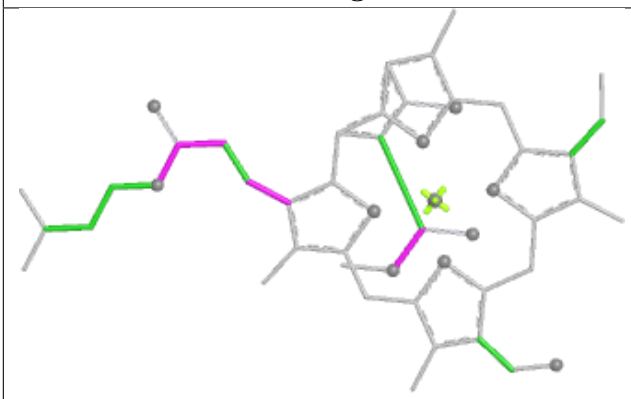
Ligand CL7 B 817



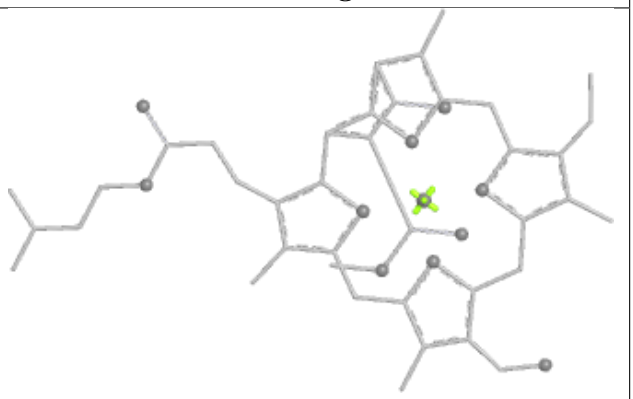
Bond lengths



Bond angles

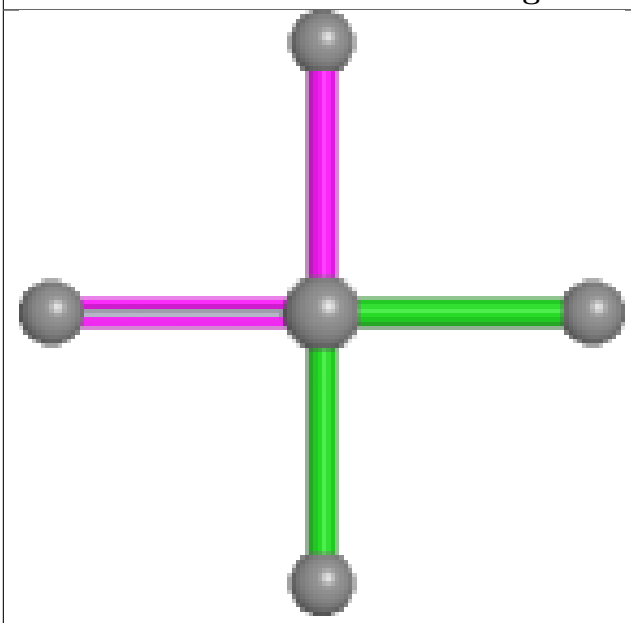


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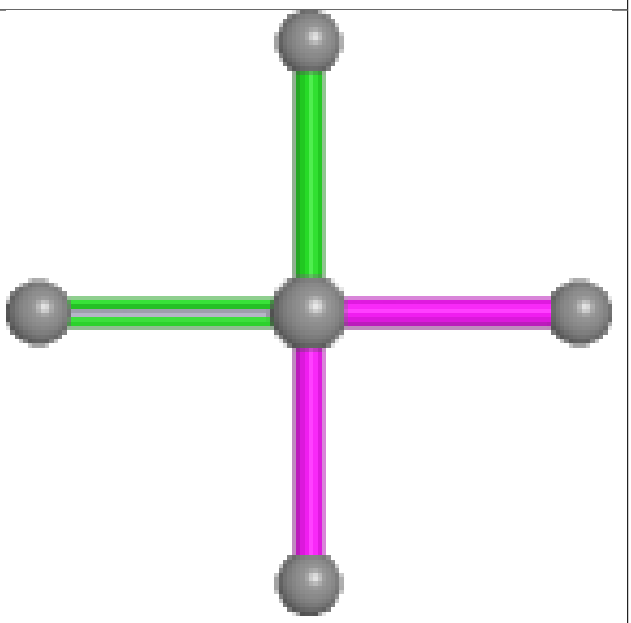


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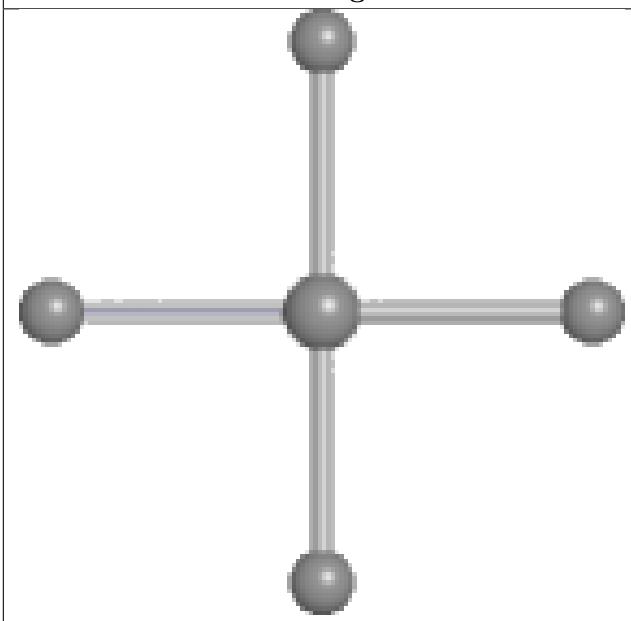
Ligand LHG B 844



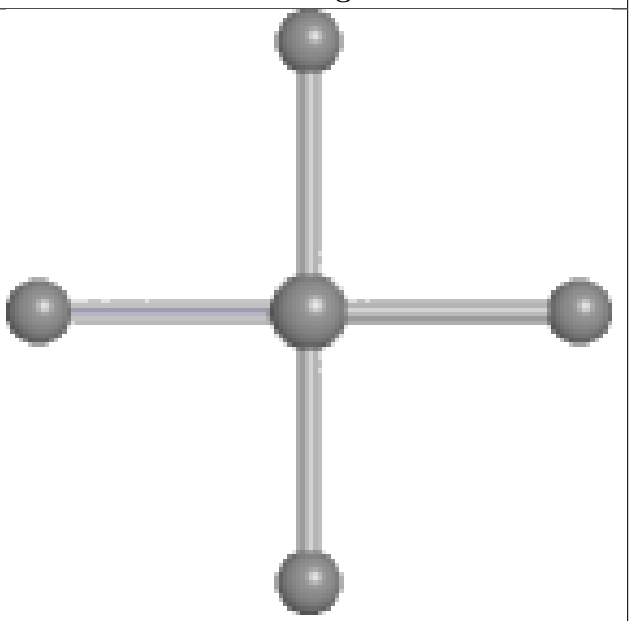
Bond lengths



Bond angles

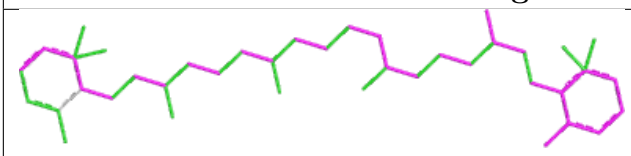


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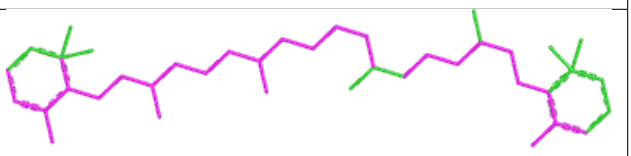


Rings

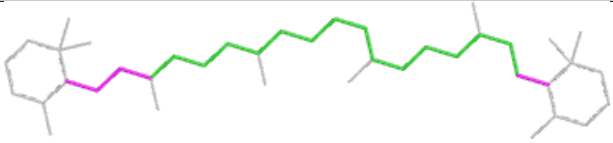
Ligand WVN M 101



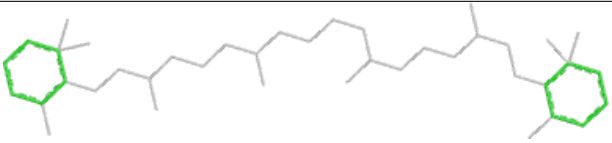
Bond lengths



Bond angles

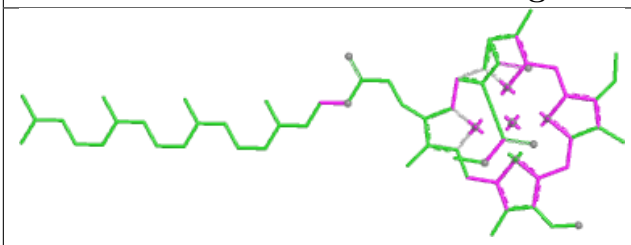


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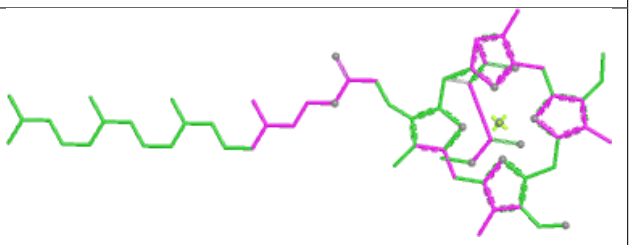


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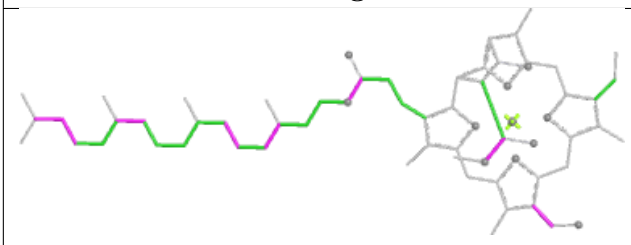
Ligand CL7 A 815



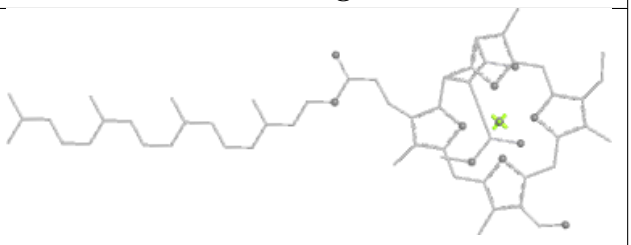
Bond lengths



Bond angles

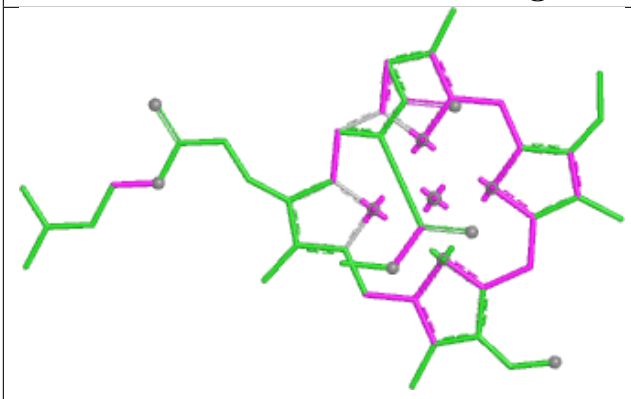


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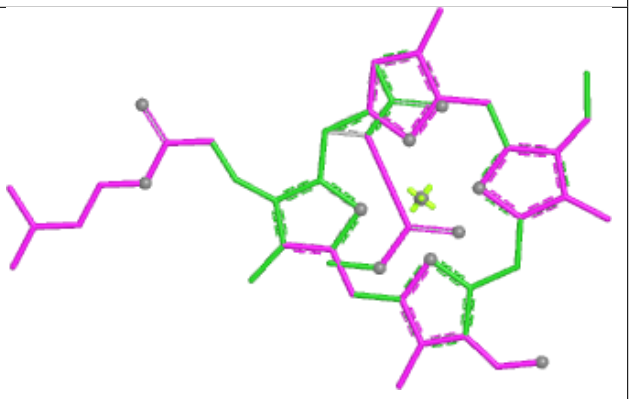


Rings

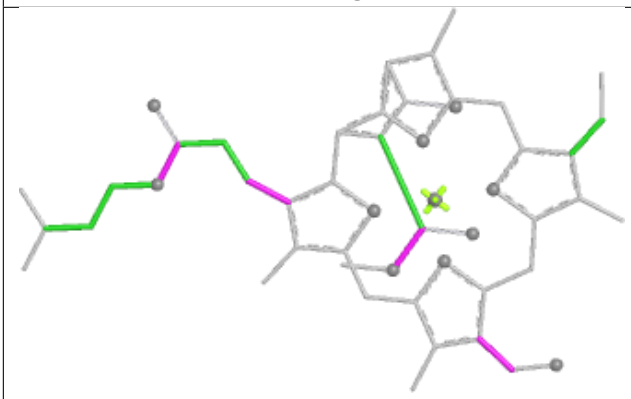
Ligand CL7 B 837



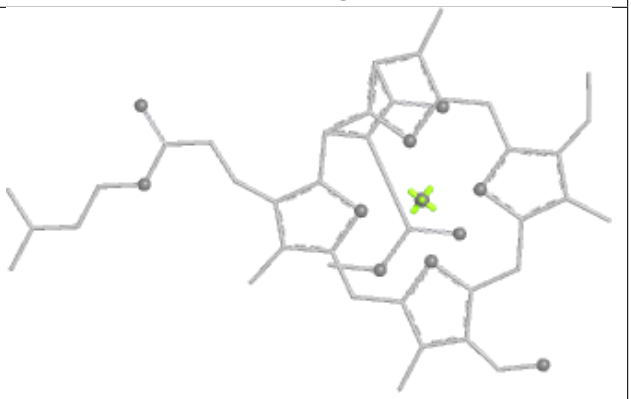
Bond lengths



Bond angles

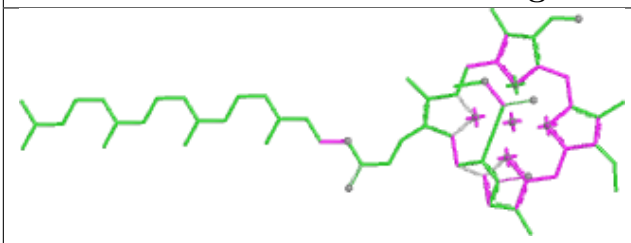


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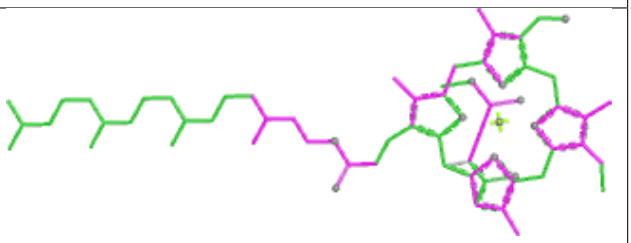


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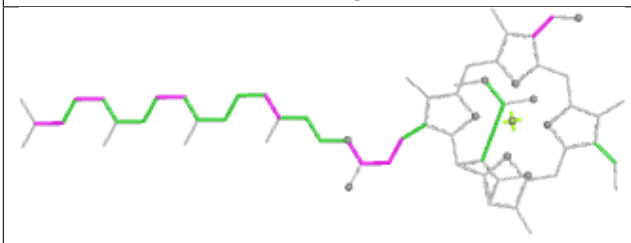
Ligand CL7 A 839



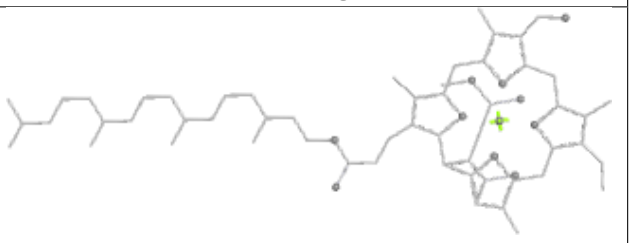
Bond lengths



Bond angles

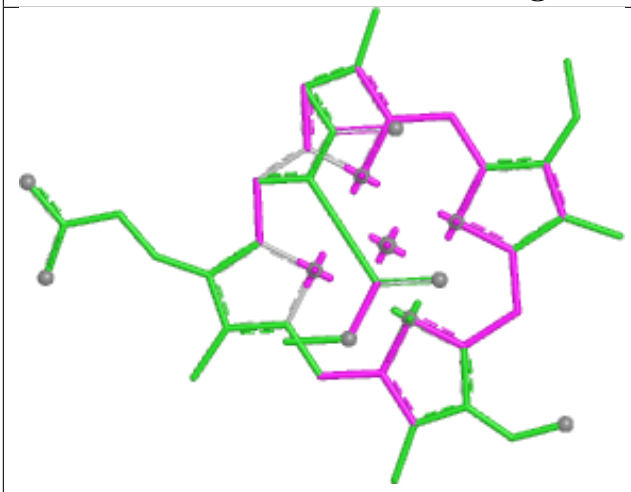


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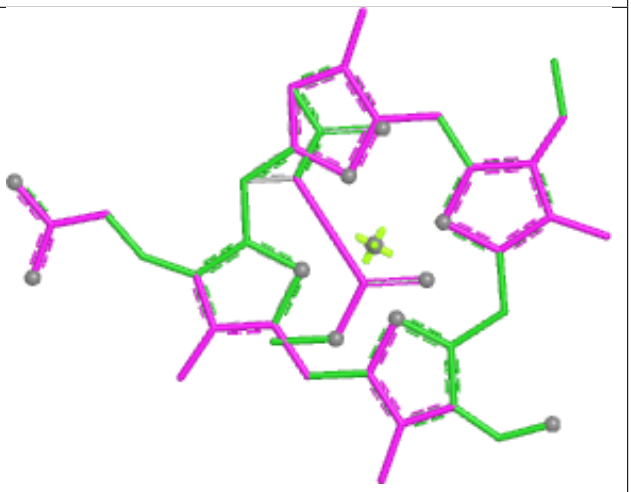


Rings

Ligand CL7 B 810



Bond lengths



Bond angles

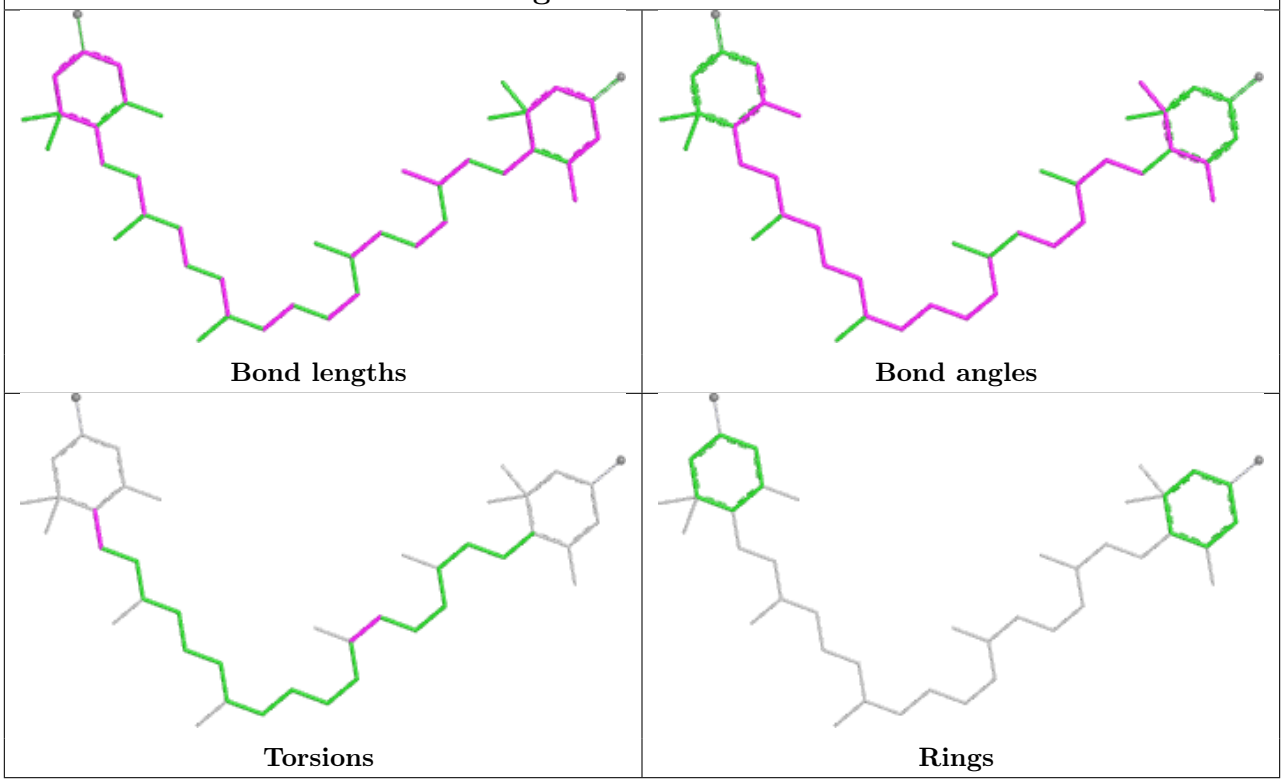


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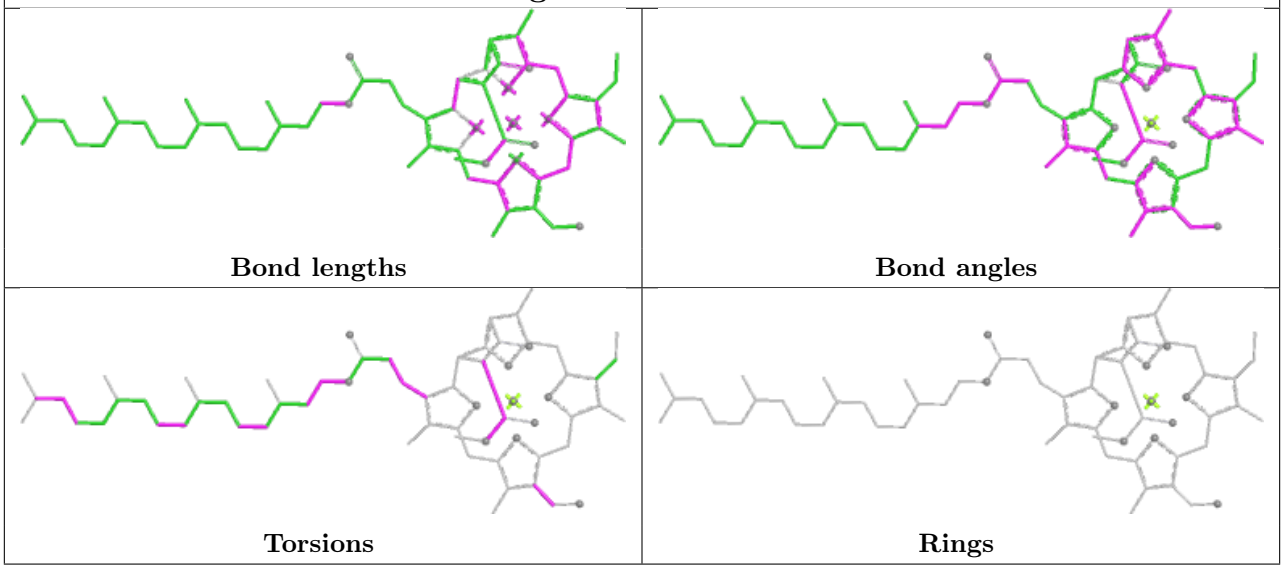


Rings

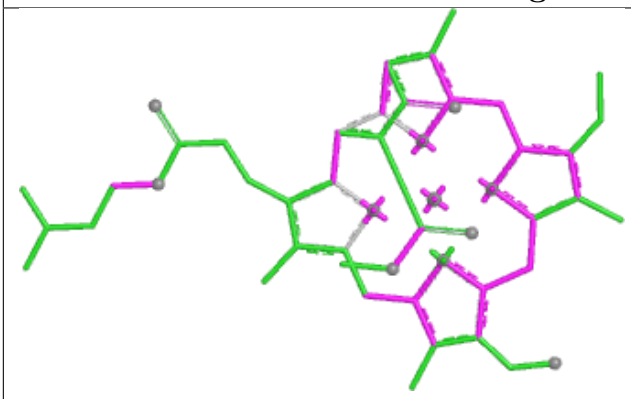
Ligand K3I B 845



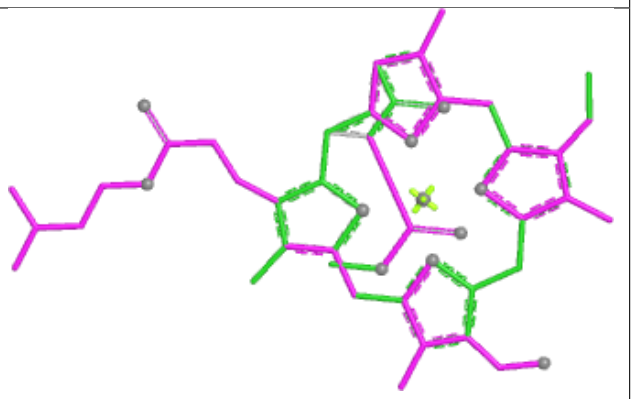
Ligand CL7 A 807



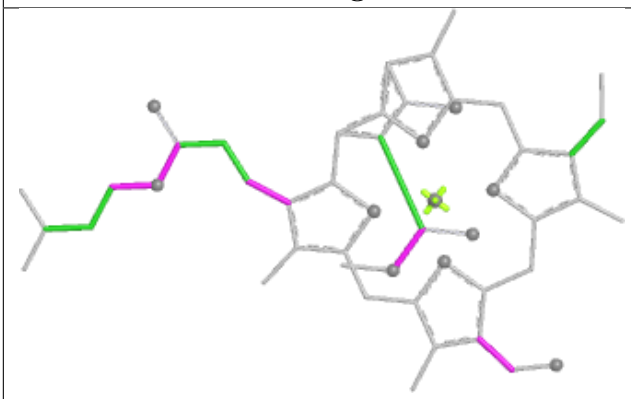
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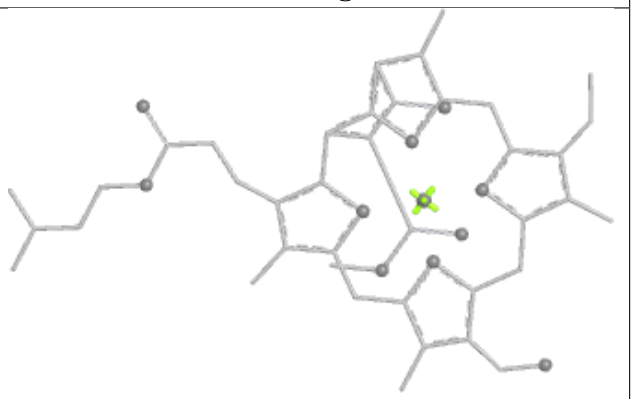
Bond lengths



Bond angles

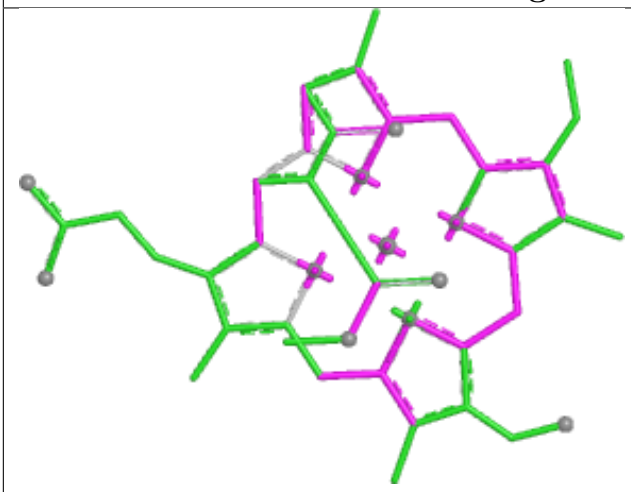


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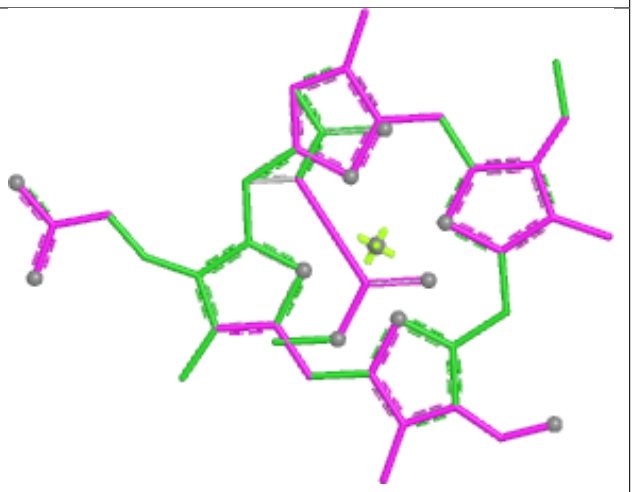


Rings

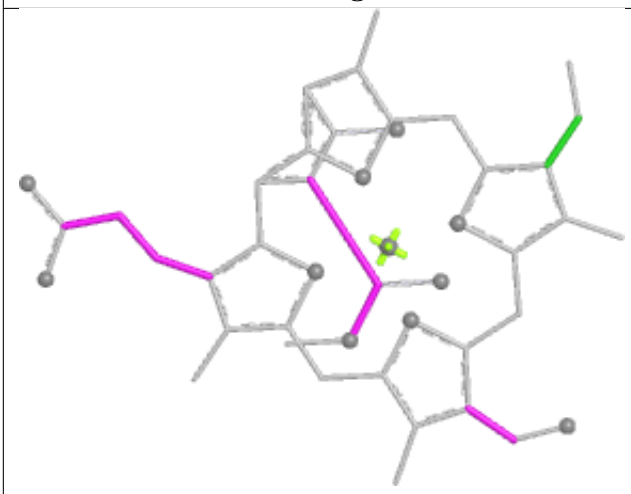
Ligand CL7 B 838



Bond lengths



Bond angles

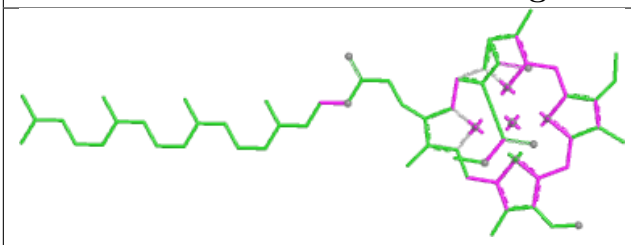


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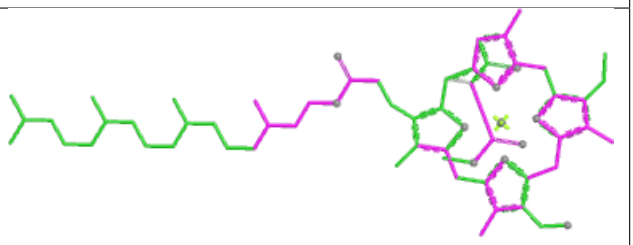


Rings

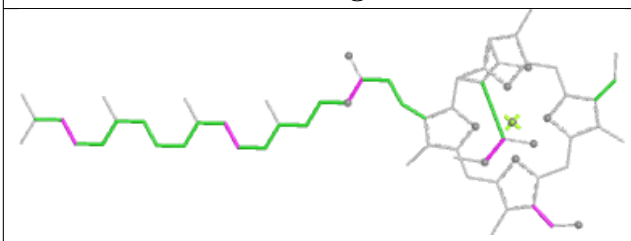
Ligand CL7 B 803



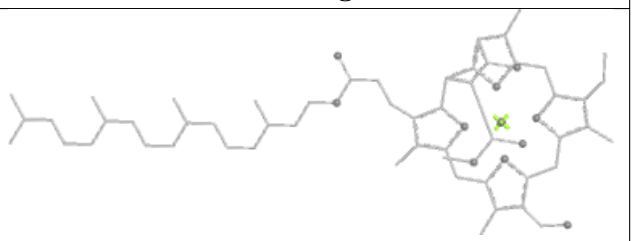
Bond lengths



Bond angles

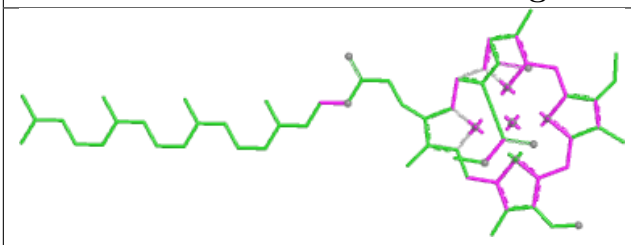


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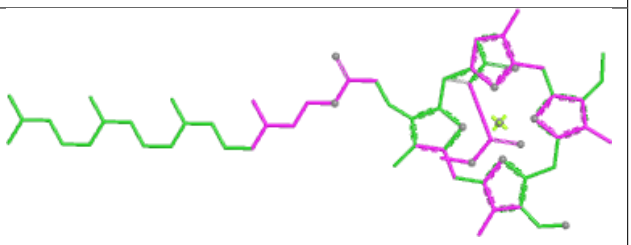


Rings

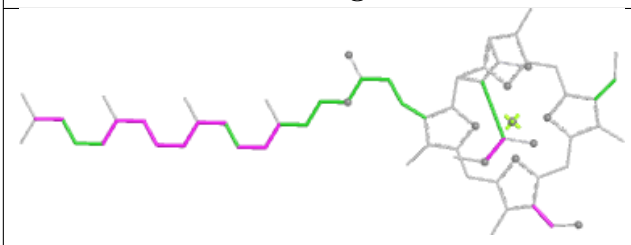
Ligand CL7 B 825



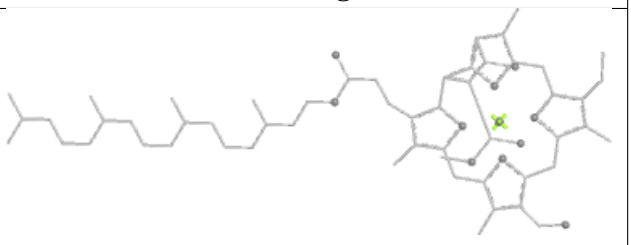
Bond lengths



Bond angles

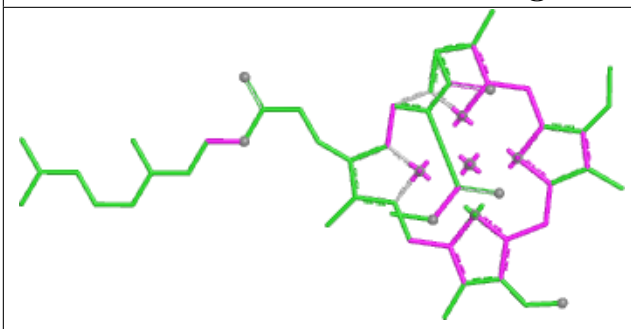


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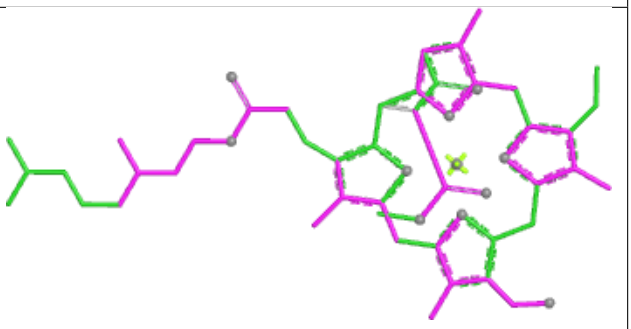


Rings

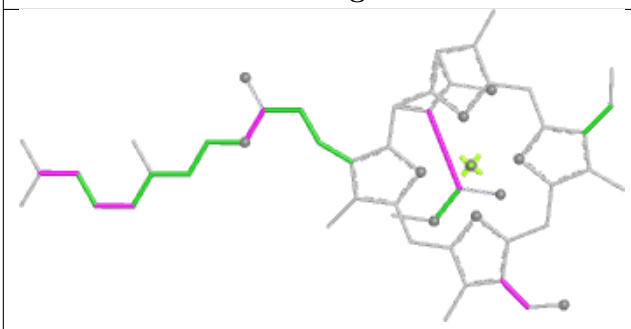
Ligand CL7 A 804



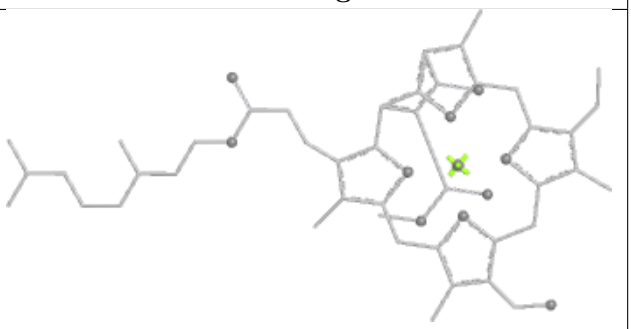
Bond lengths



Bond angles

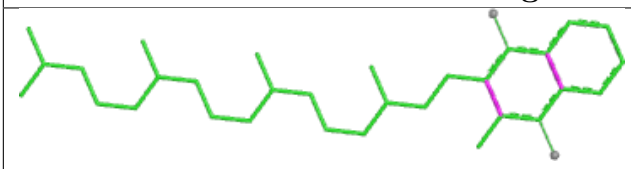


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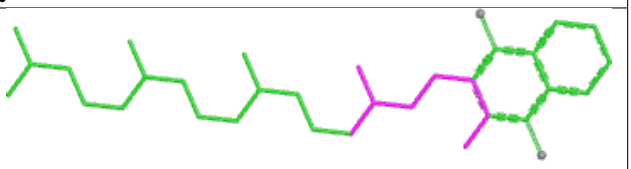


Rings

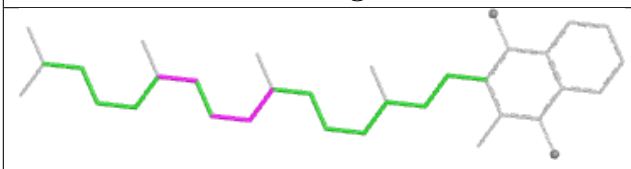
Ligand PQN A 826



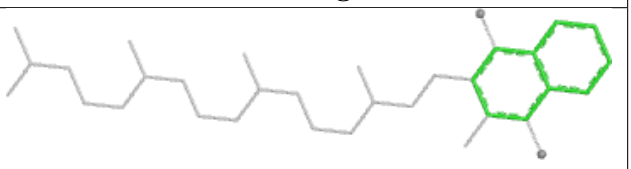
Bond lengths



Bond angles

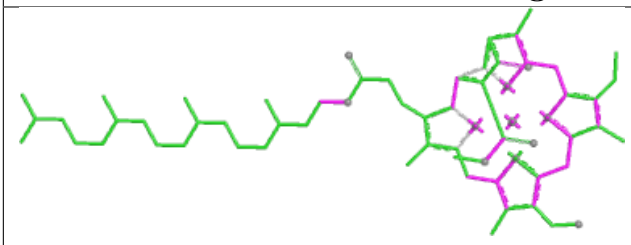


Torsions

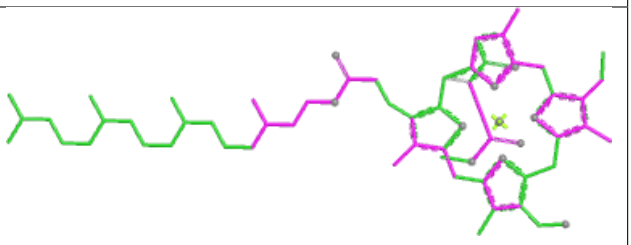


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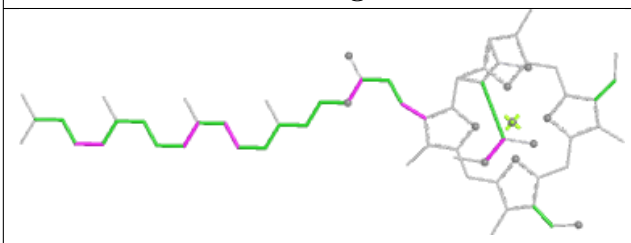
Ligand CL7 A 824



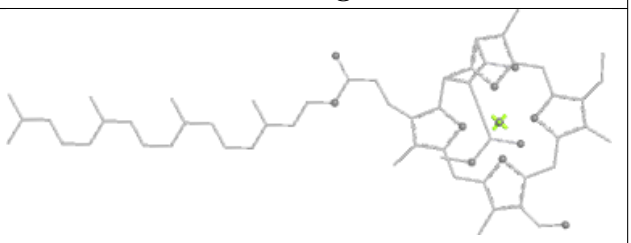
Bond lengths



Bond angles

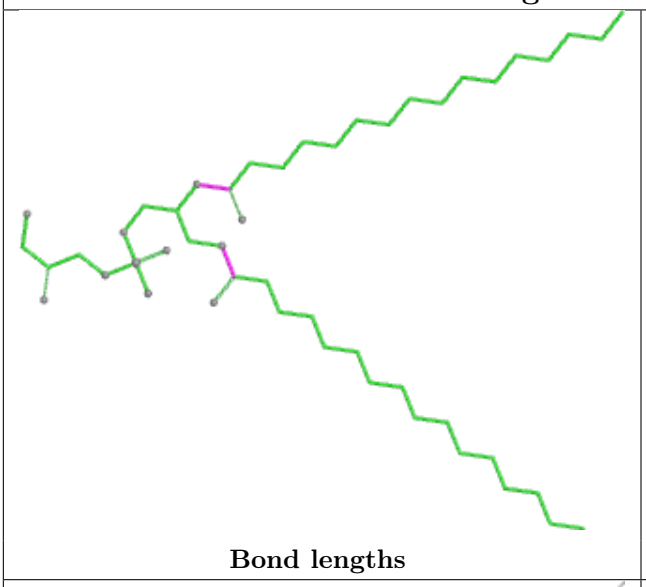


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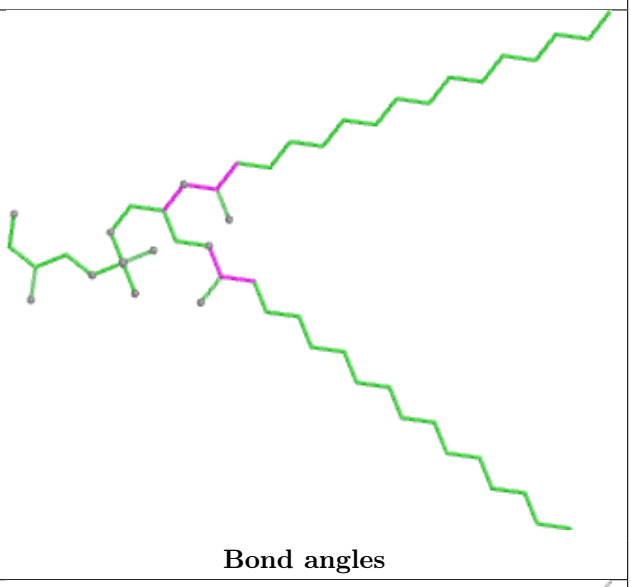


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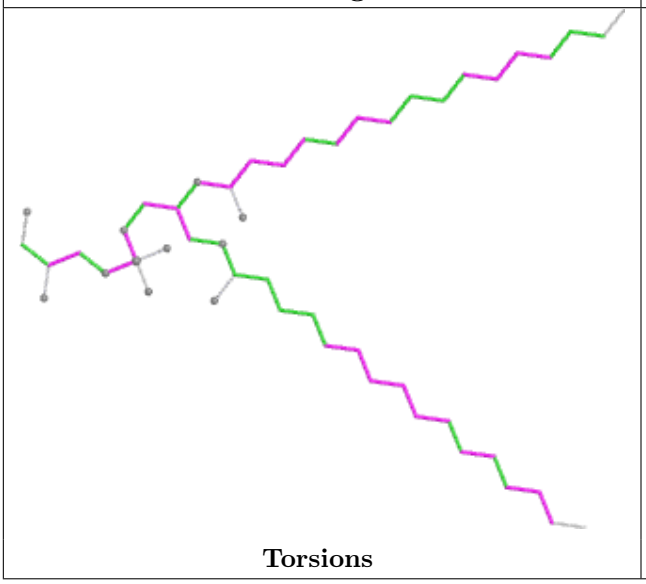
Ligand LHG A 820



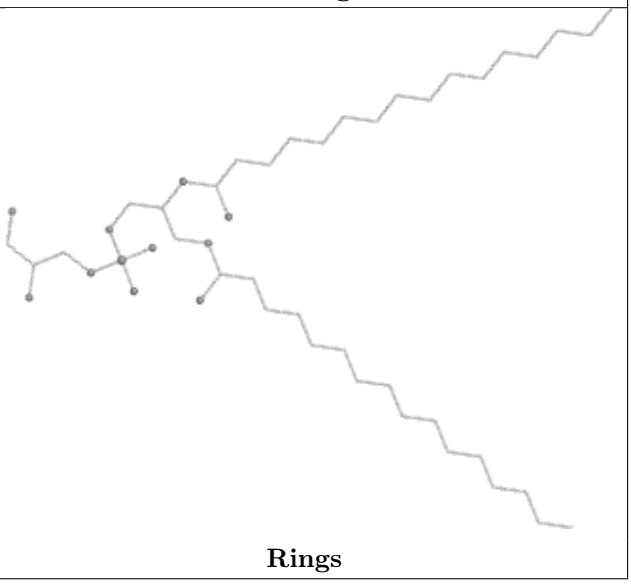
Bond lengths



Bond angles

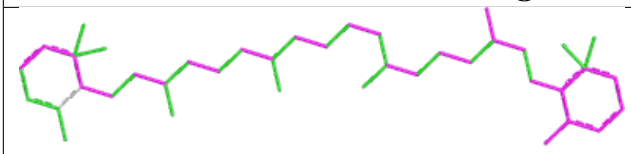


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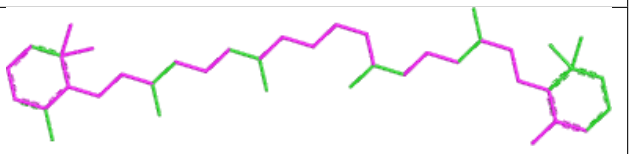


Rings

Ligand WVN B 848



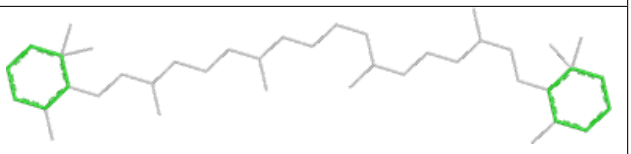
Bond lengths



Bond angles

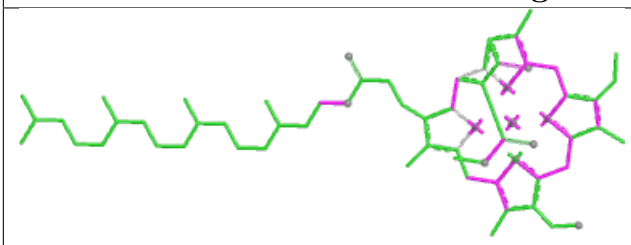


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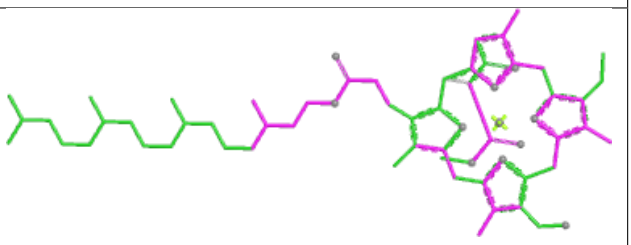


Rings

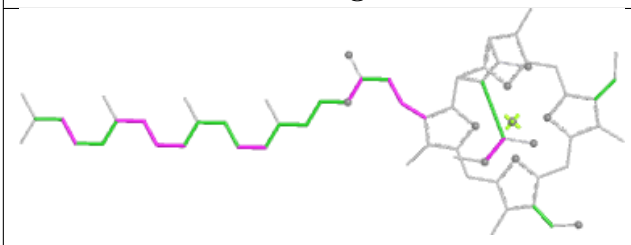
Ligand CL7 L 207



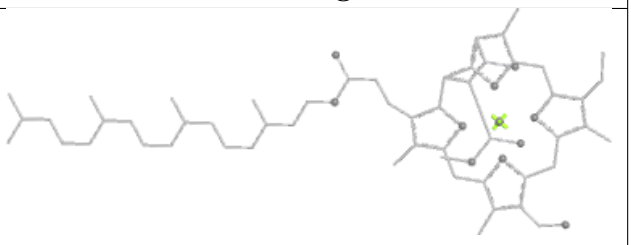
Bond lengths



Bond angles

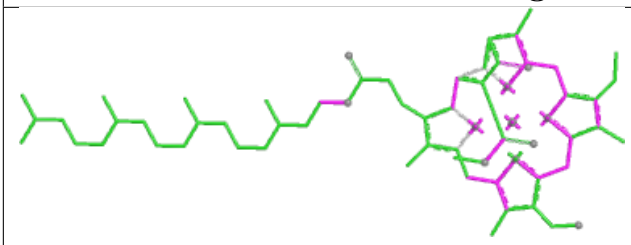


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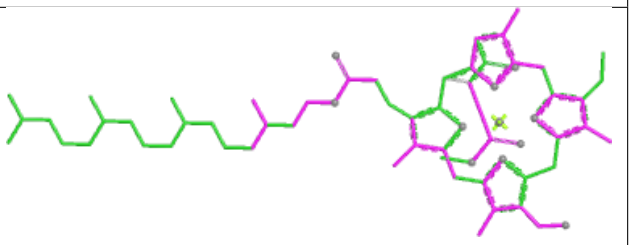


Rings

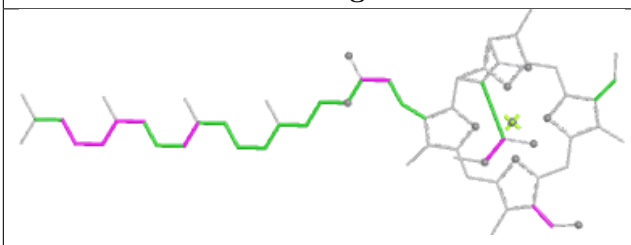
Ligand CL7 A 825



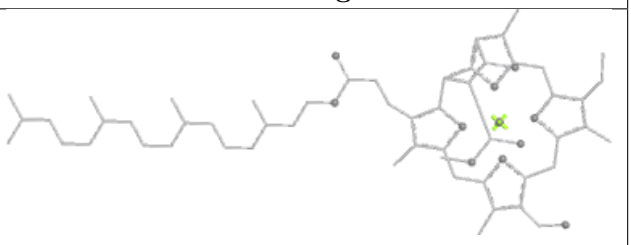
Bond lengths



Bond angles

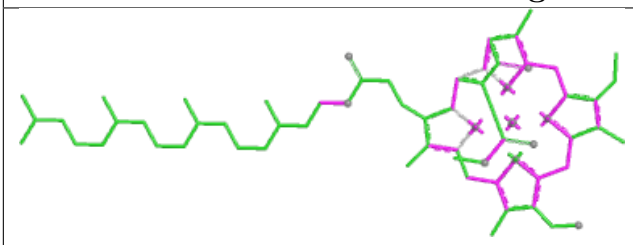


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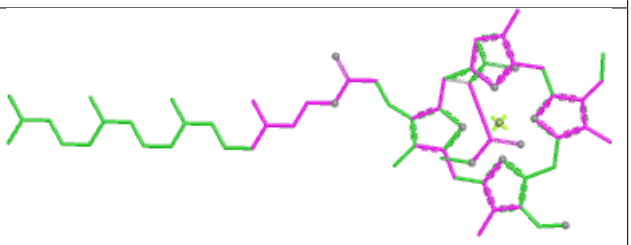


Rings

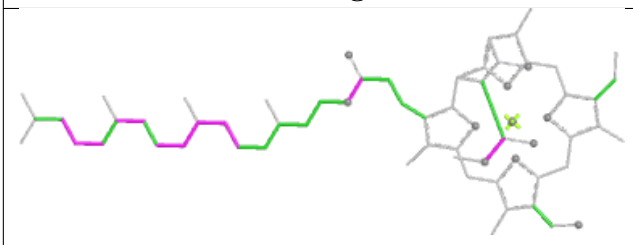
Ligand CL7 A 832



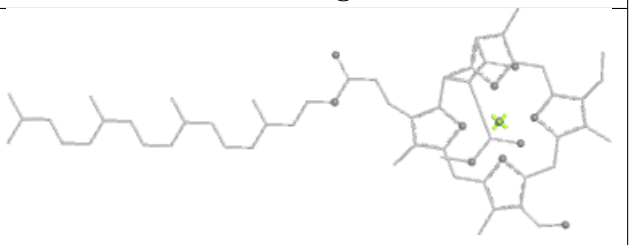
Bond lengths



Bond angles

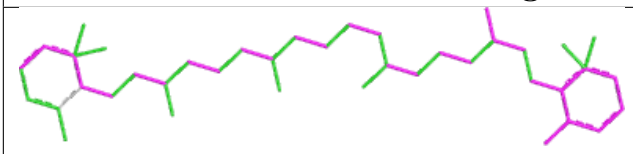


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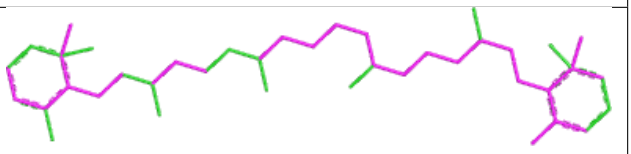


Rings

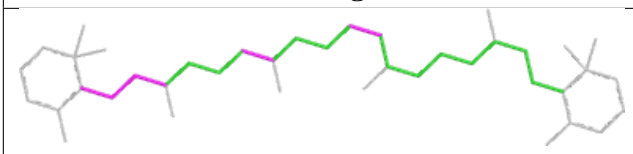
Ligand WVN I 101



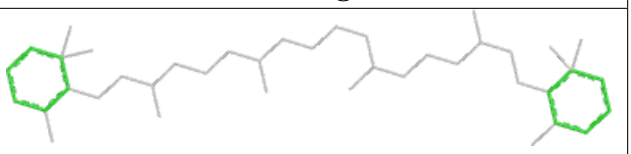
Bond lengths



Bond angles

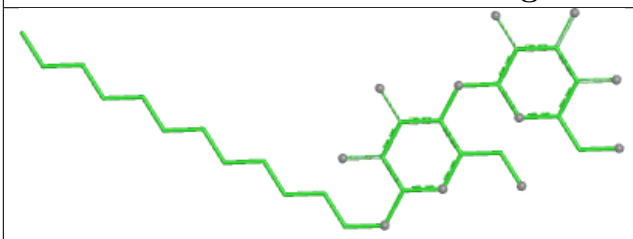


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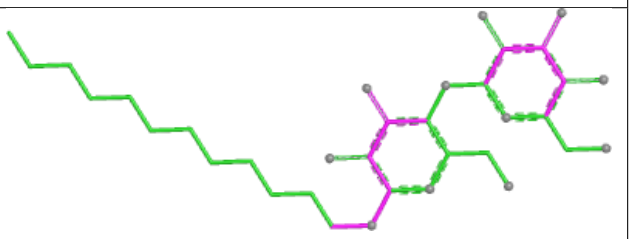


Rings

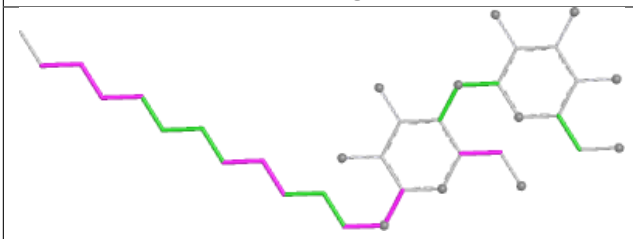
Ligand LMT A 833



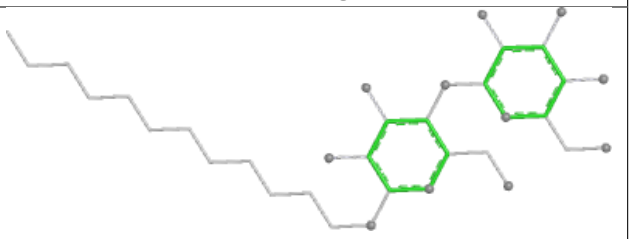
Bond lengths



Bond angles

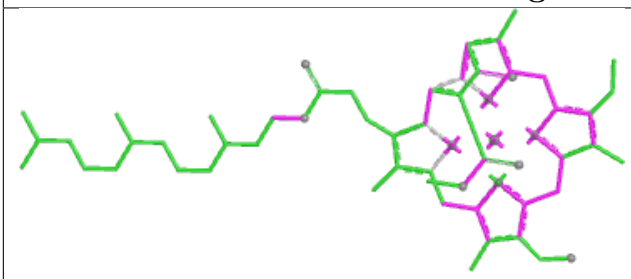


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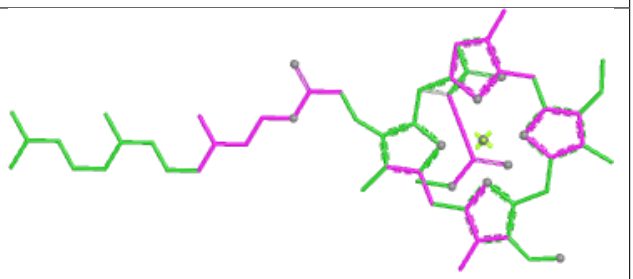


Rings

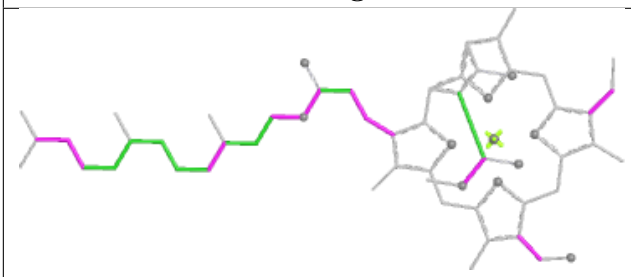
Ligand CL7 A 838



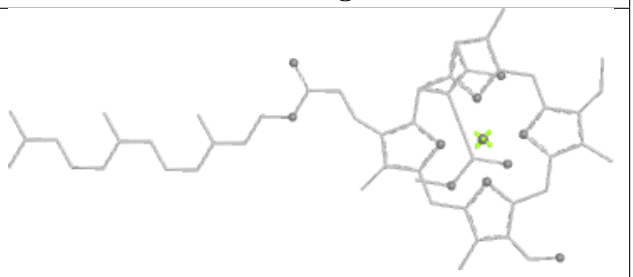
Bond lengths



Bond angles

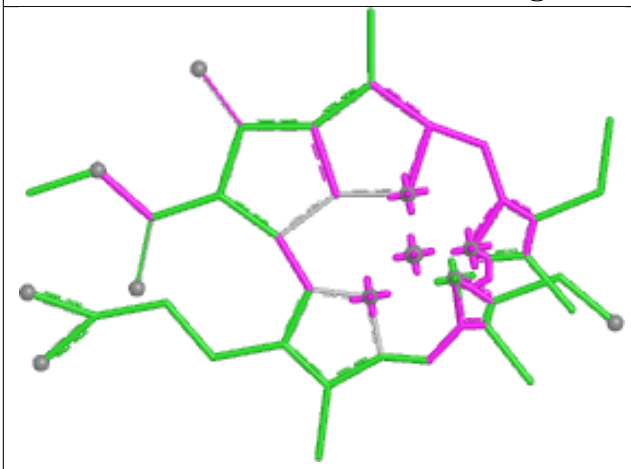


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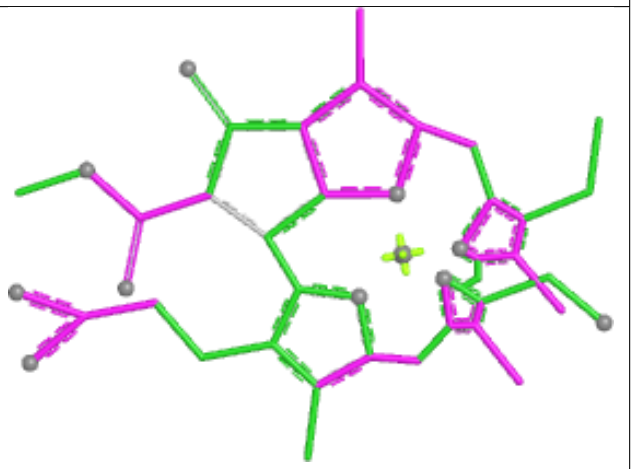


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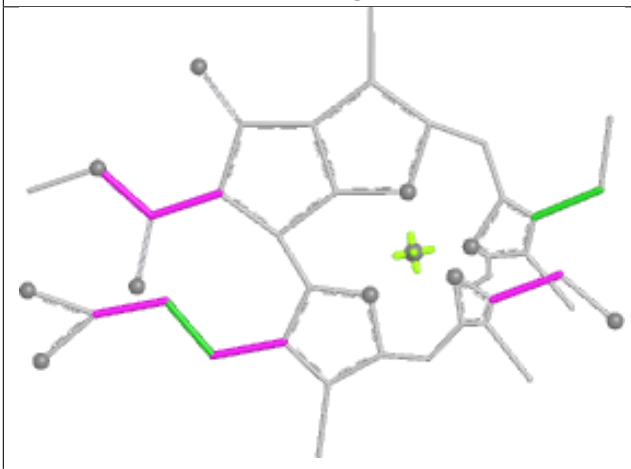
Ligand CL7 A 848



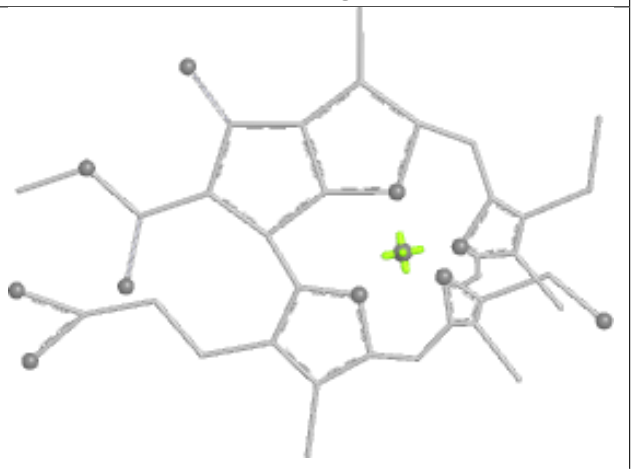
Bond lengths



Bond angles

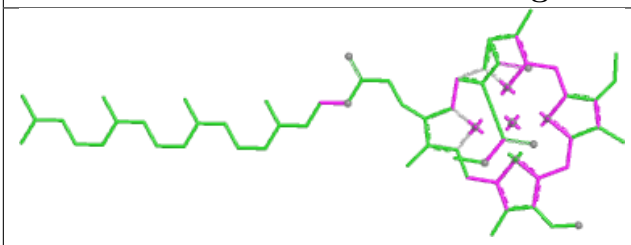


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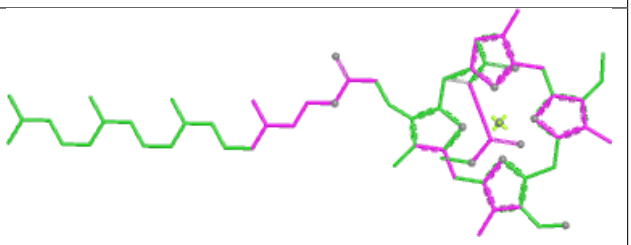


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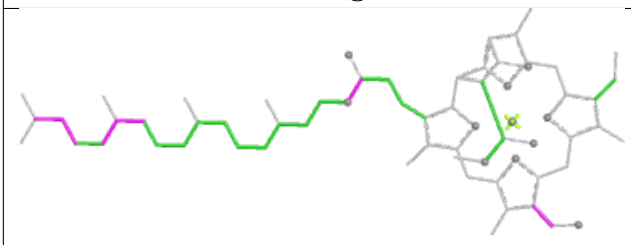
Ligand CL7 L 205



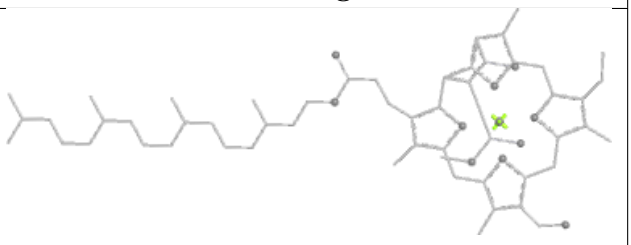
Bond lengths



Bond angles

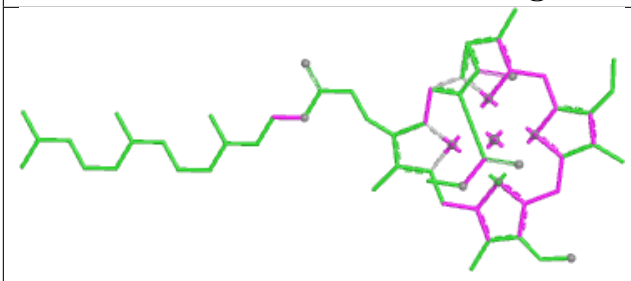


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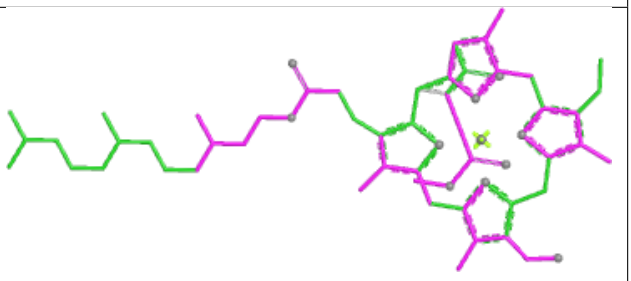


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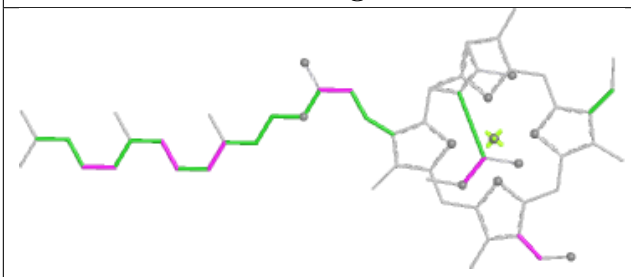
Ligand CL7 A 842



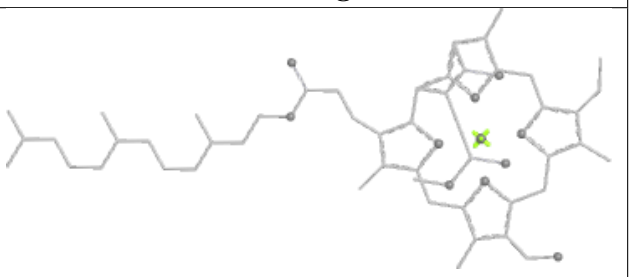
Bond lengths



Bond angles

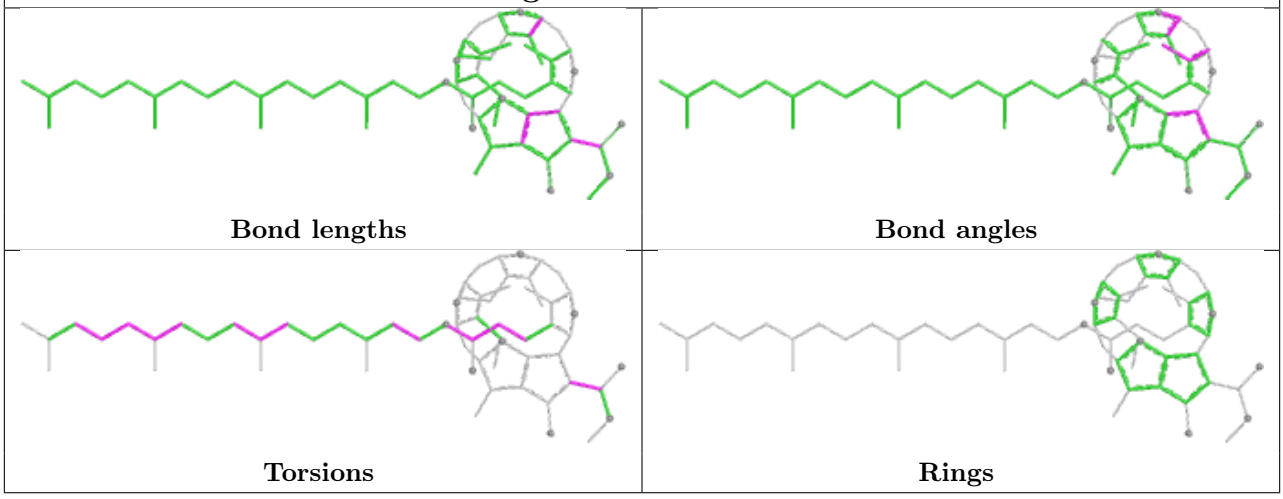


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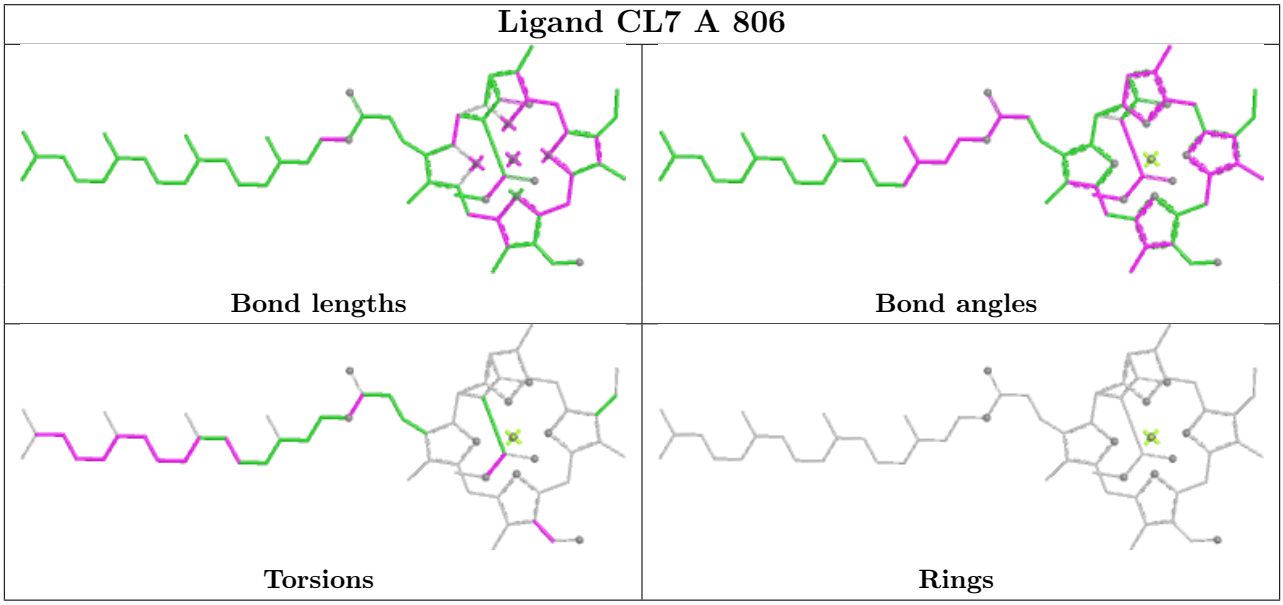


Rings

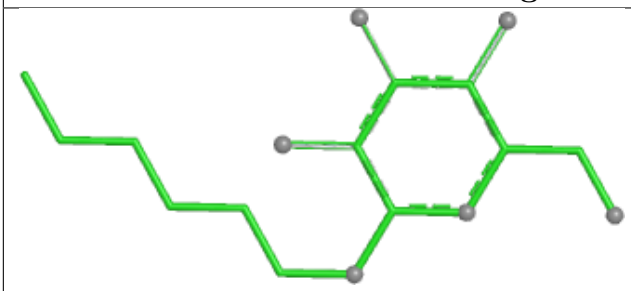
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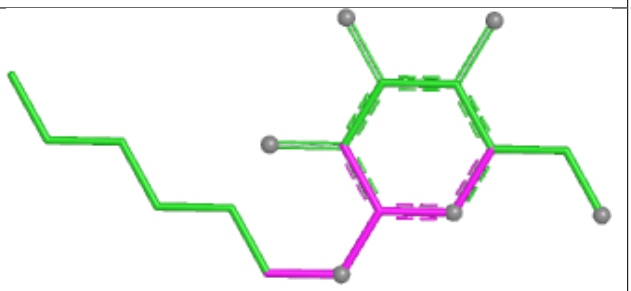
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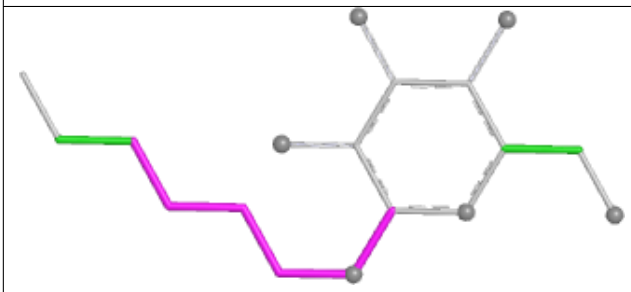
Ligand LMT K 104



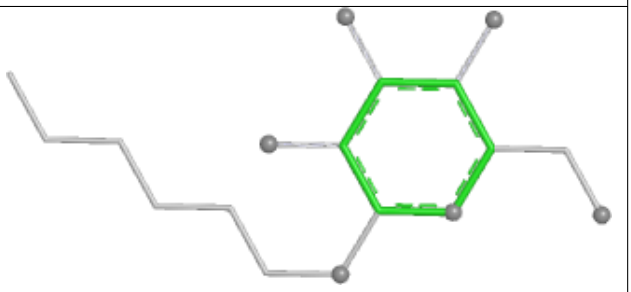
Bond lengths



Bond angles

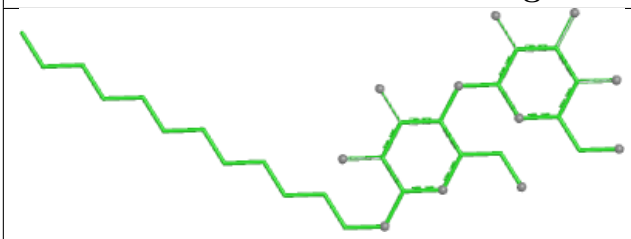


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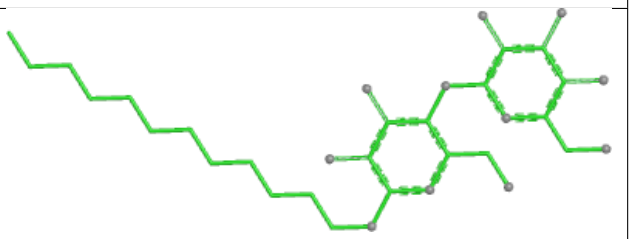


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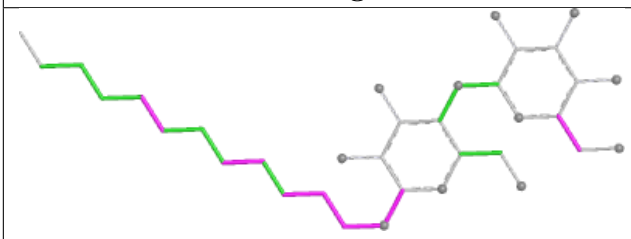
Ligand LMT L 206



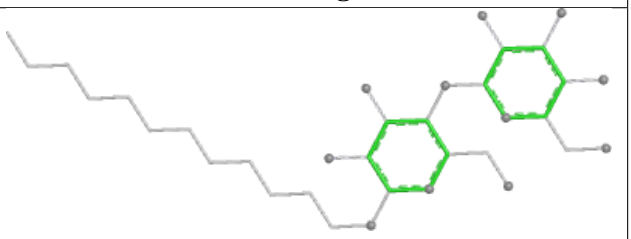
Bond lengths



Bond angles

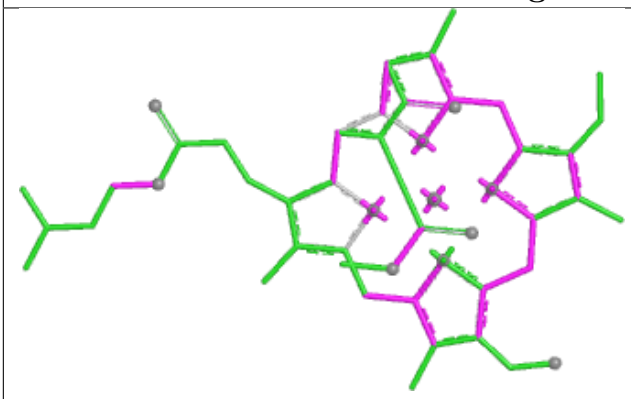


Torsions

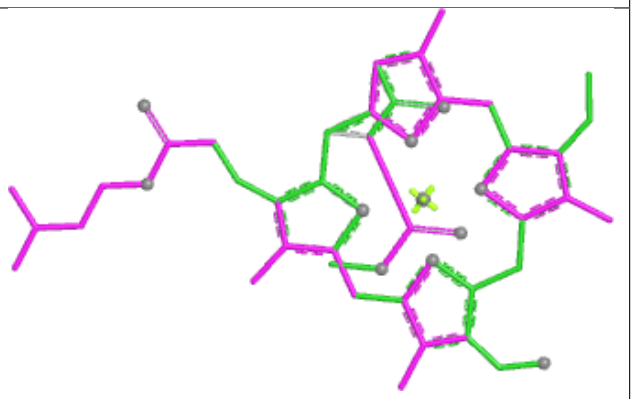


Rings

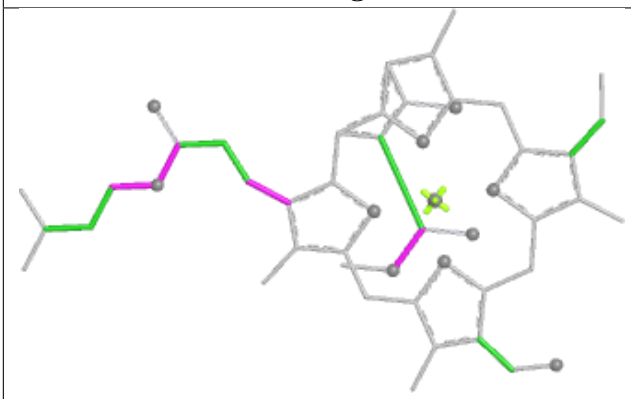
Ligand CL7 A 845



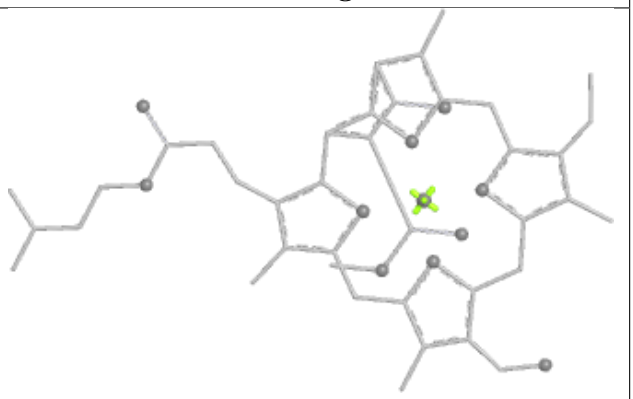
Bond lengths



Bond angles

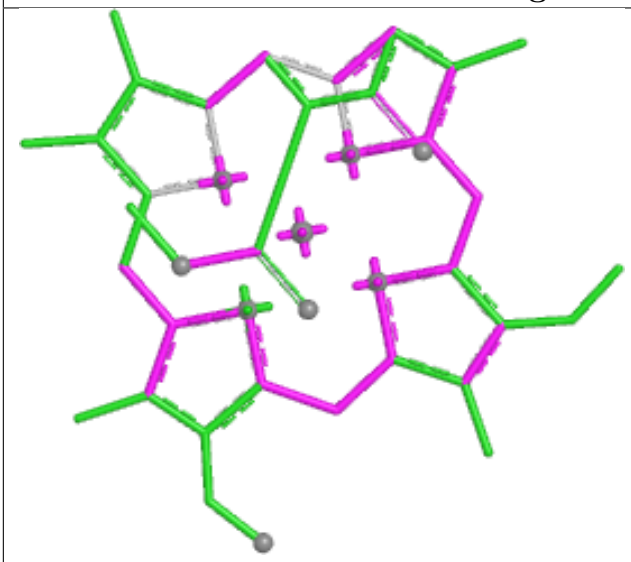


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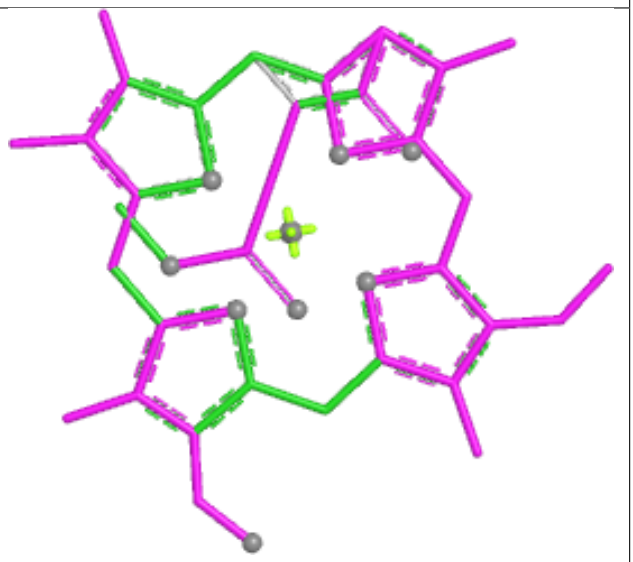


Rings

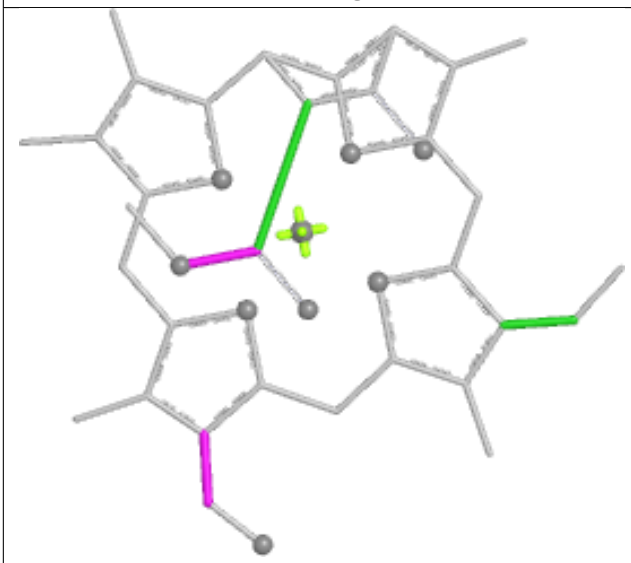
Ligand CL7 B 846



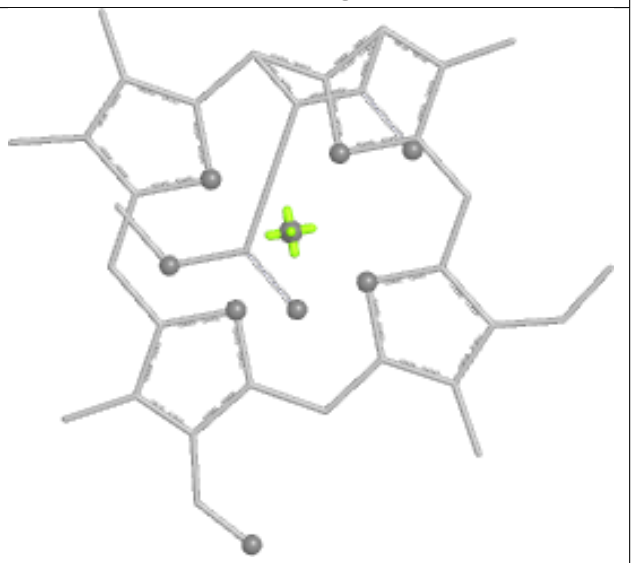
Bond lengths



Bond angles

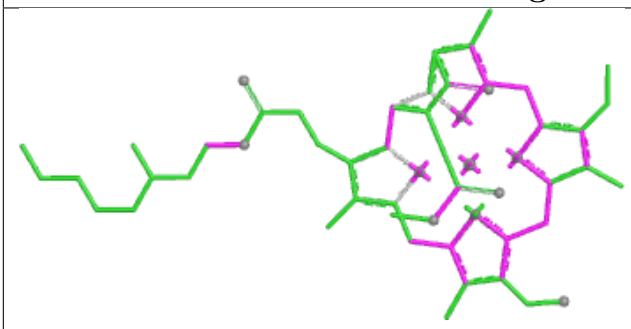


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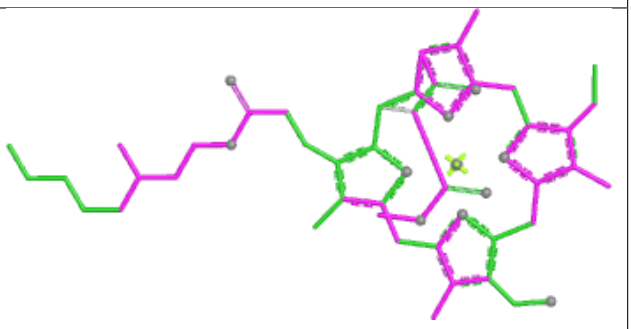


Rings

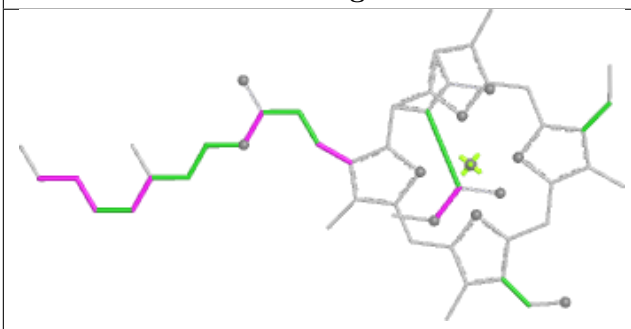
Ligand CL7 B 821



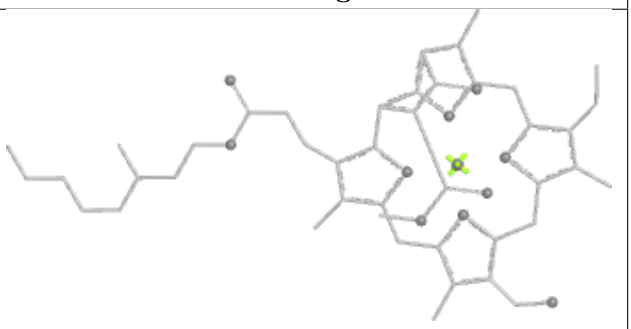
Bond lengths



Bond angles

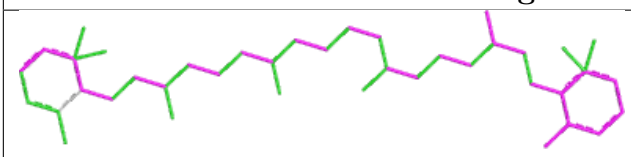


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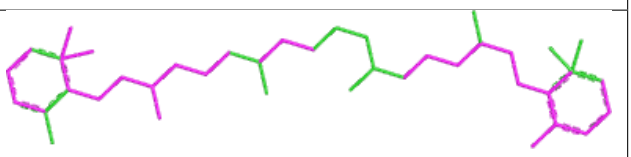


Rings

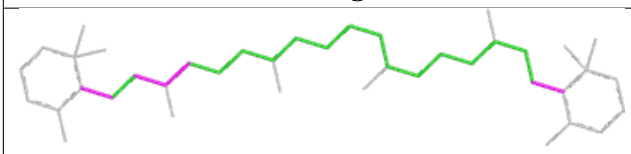
Ligand WVN L 202



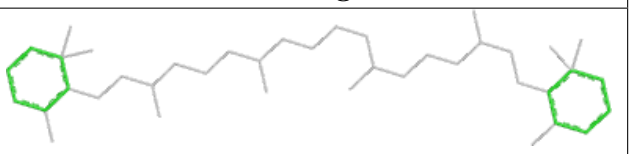
Bond lengths



Bond angles

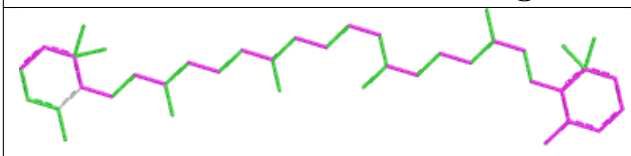


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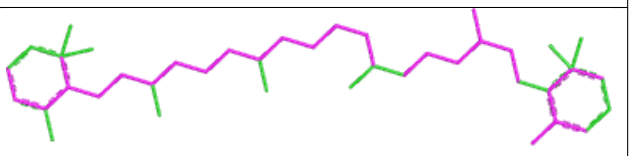


Rings

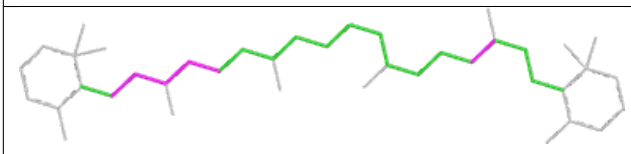
Ligand WVN B 847



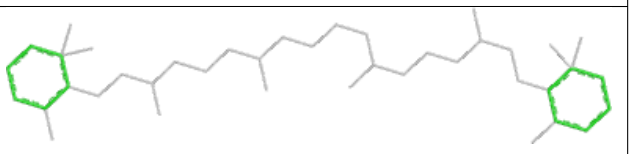
Bond lengths



Bond angles

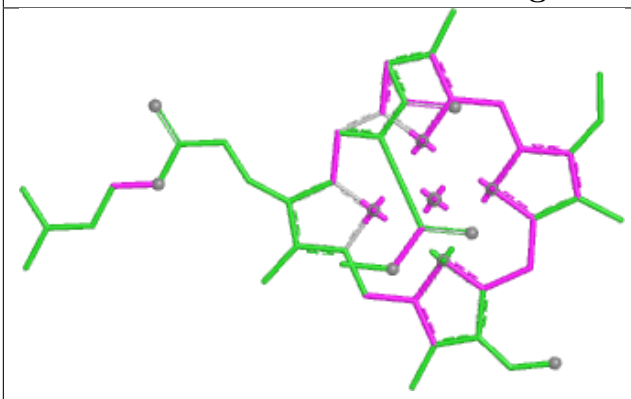


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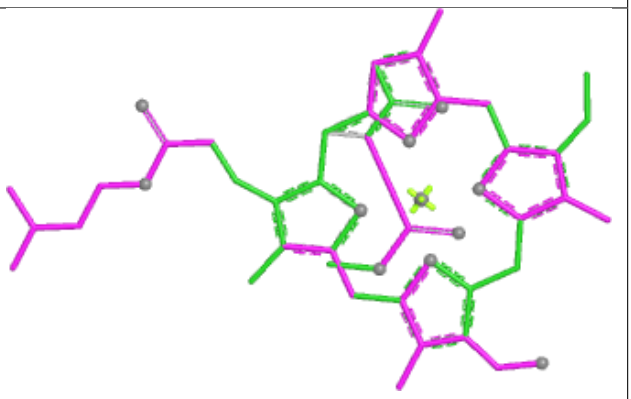


Rings

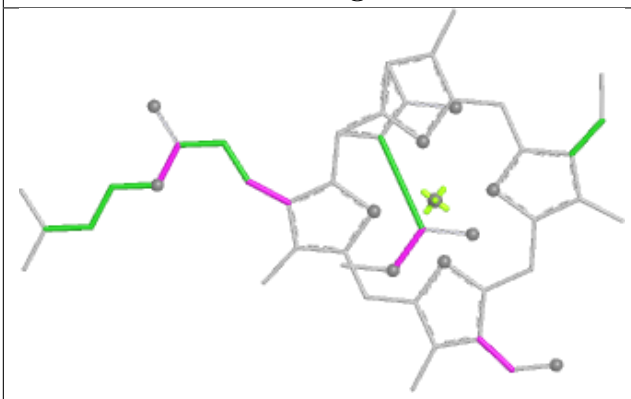
Ligand CL7 B 816



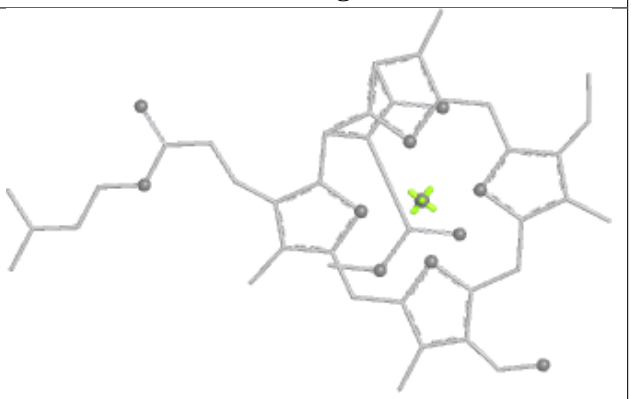
Bond lengths



Bond angles

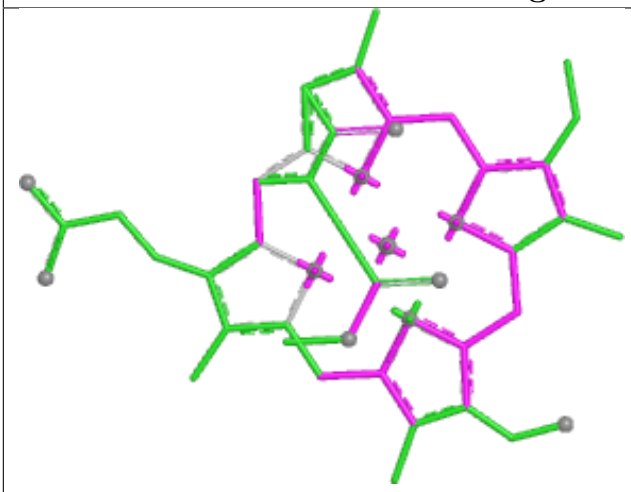


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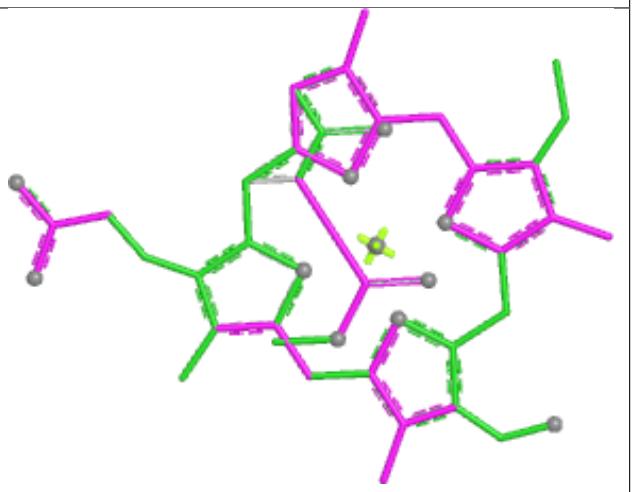


Rings

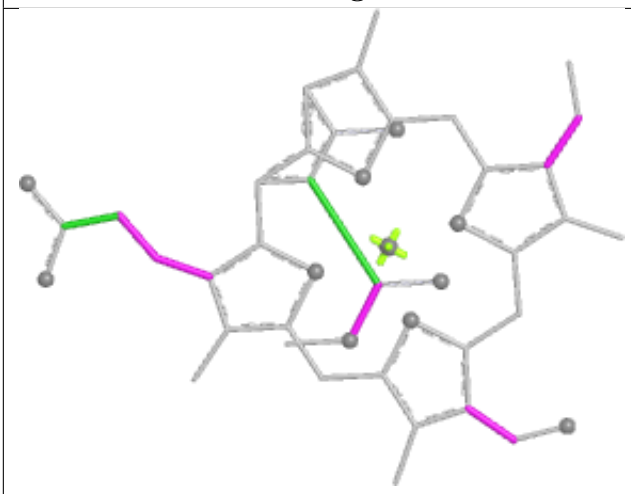
Ligand CL7 B 834



Bond lengths



Bond angles

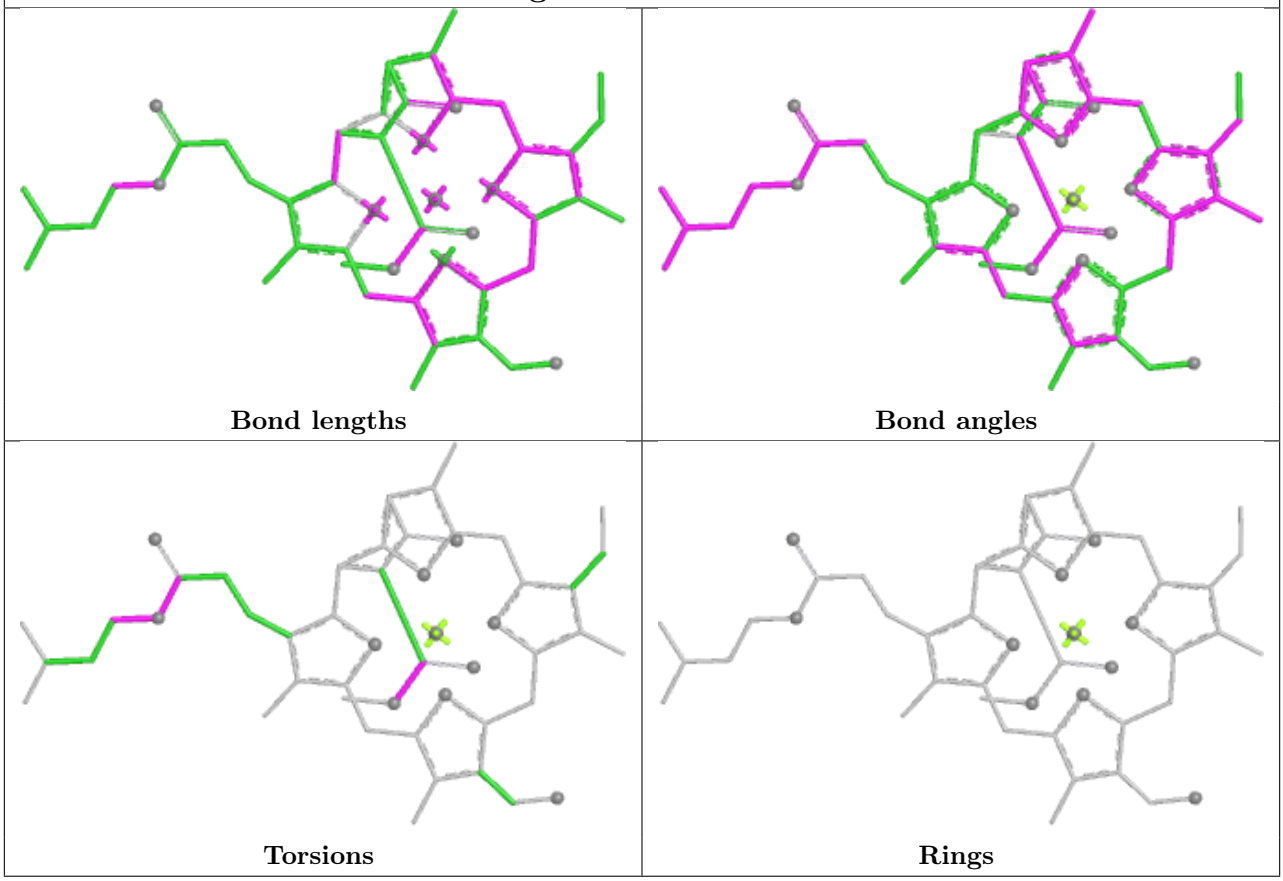


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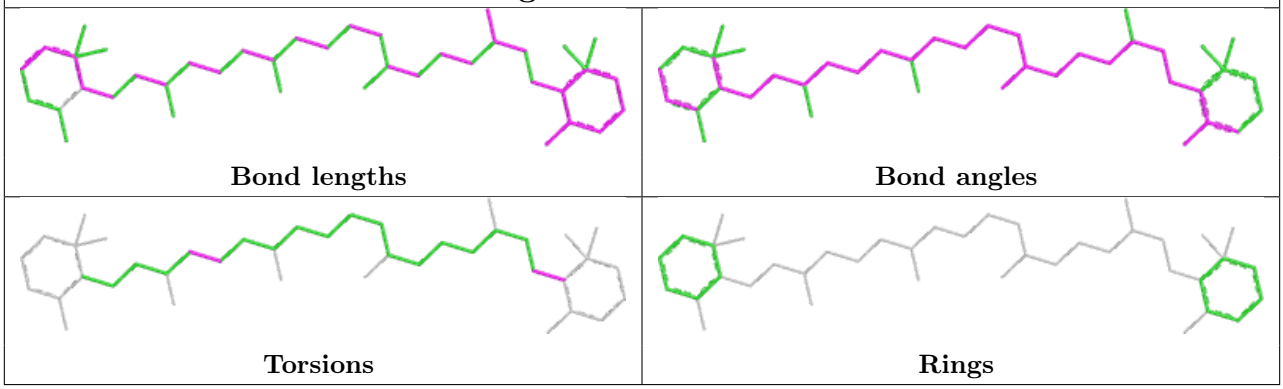


Rings

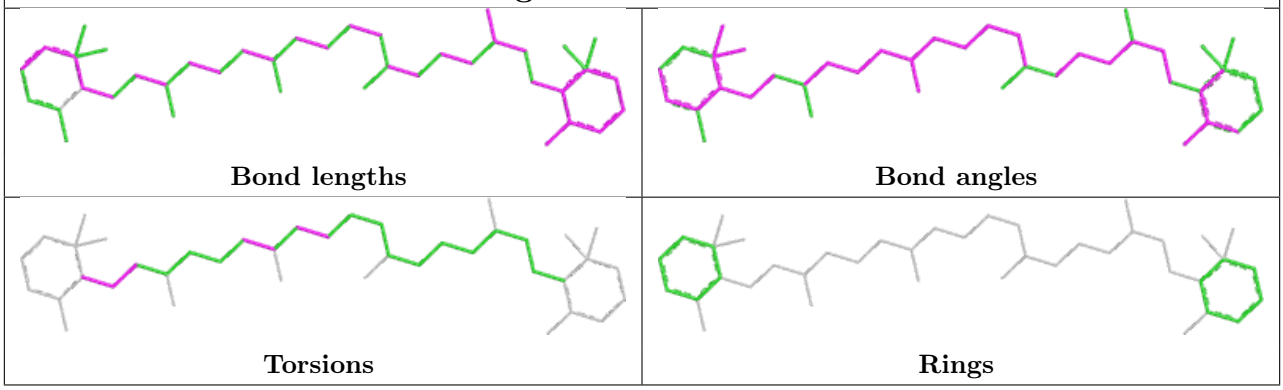
Ligand CL7 A 816



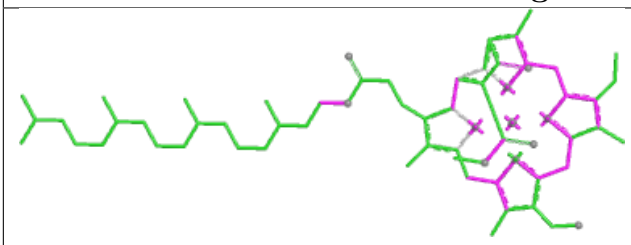
Ligand WVN L 209



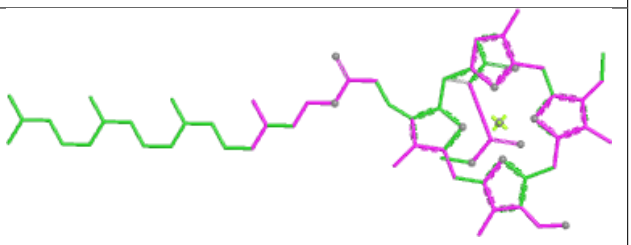
Ligand WVN K 101



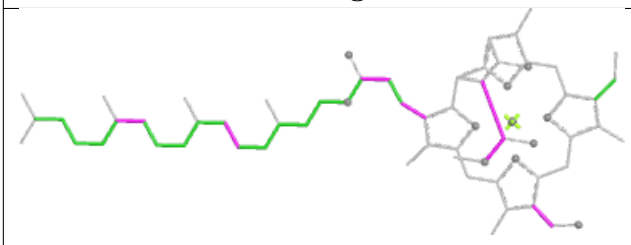
Ligand CL7 L 201



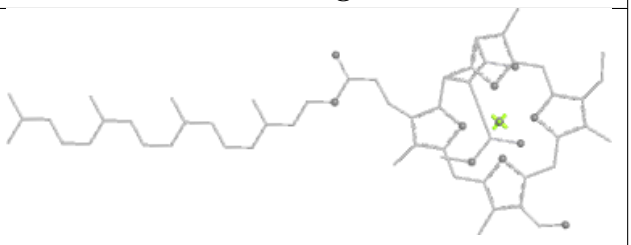
Bond lengths



Bond angles

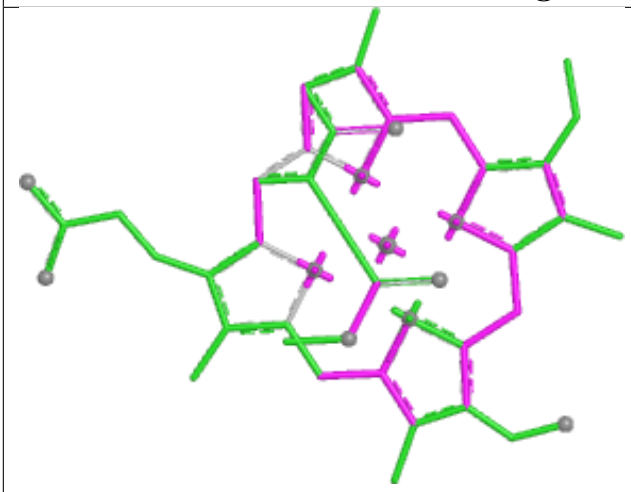


Torsions

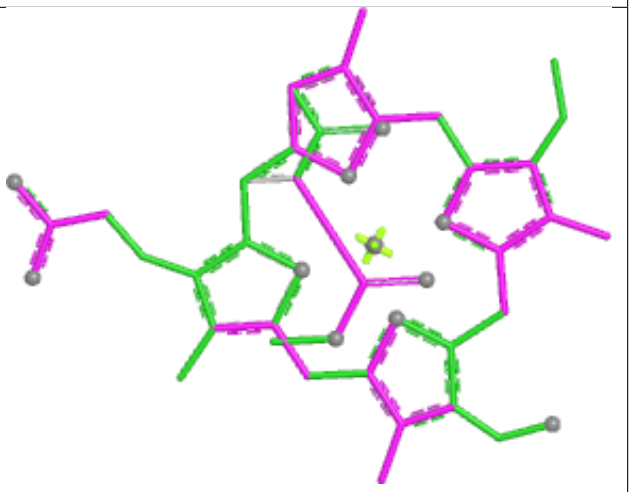


Rings

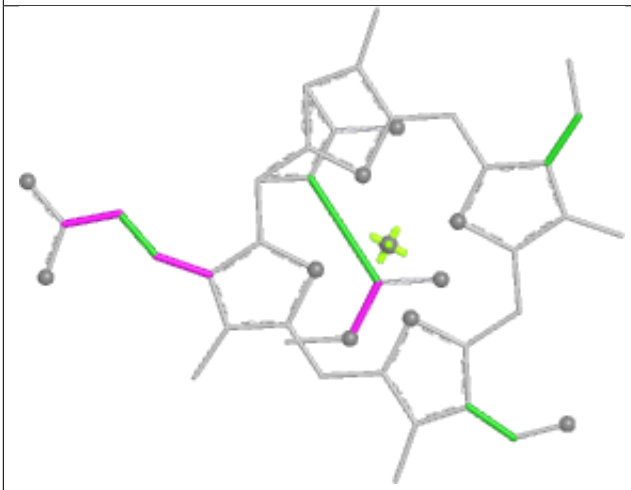
Ligand CL7 I 102



Bond lengths



Bond angles

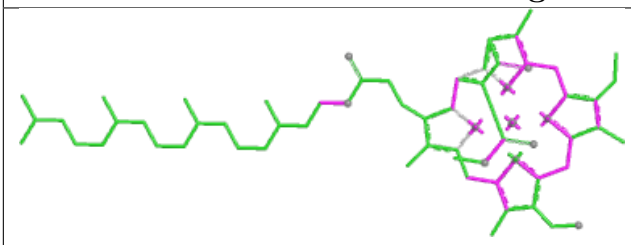


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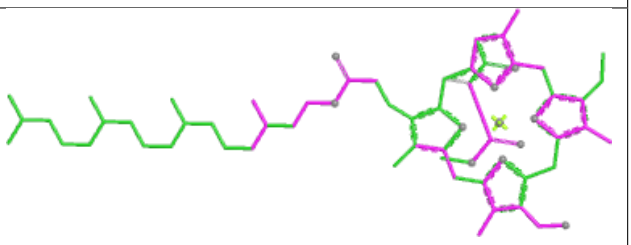


Rings

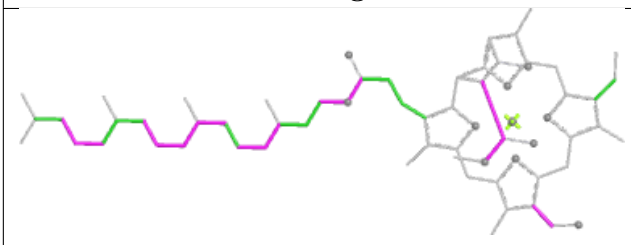
Ligand CL7 A 830



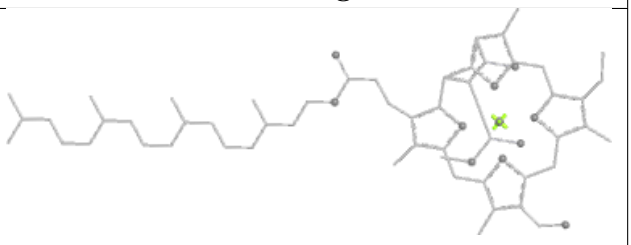
Bond lengths



Bond angles

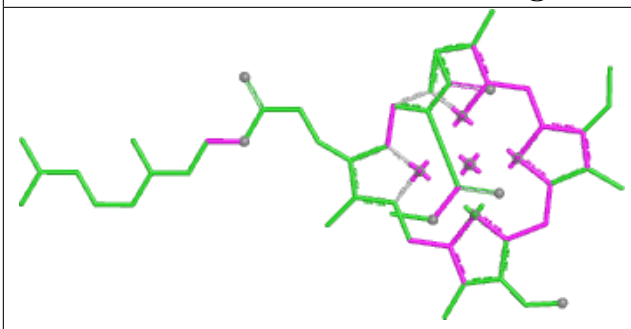


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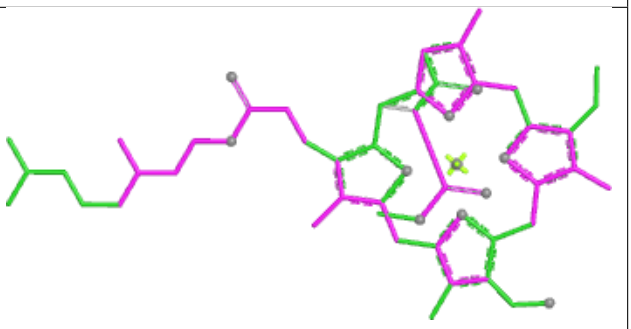


Rings

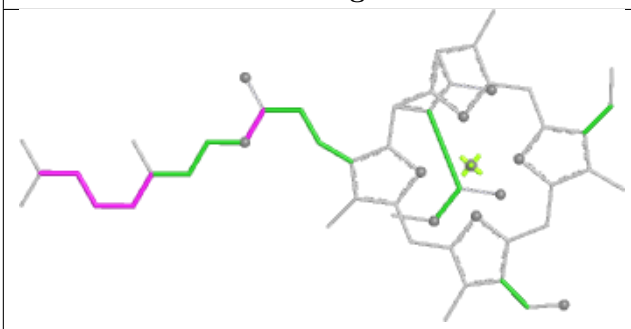
Ligand CL7 A 818



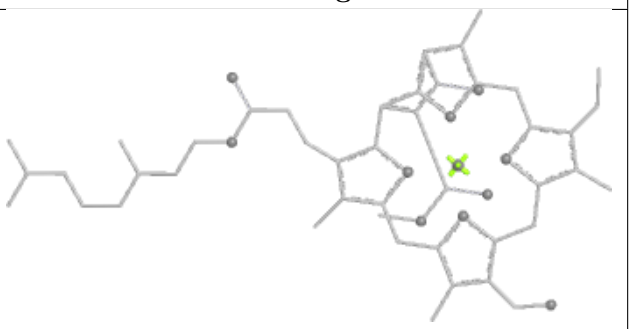
Bond lengths



Bond angles

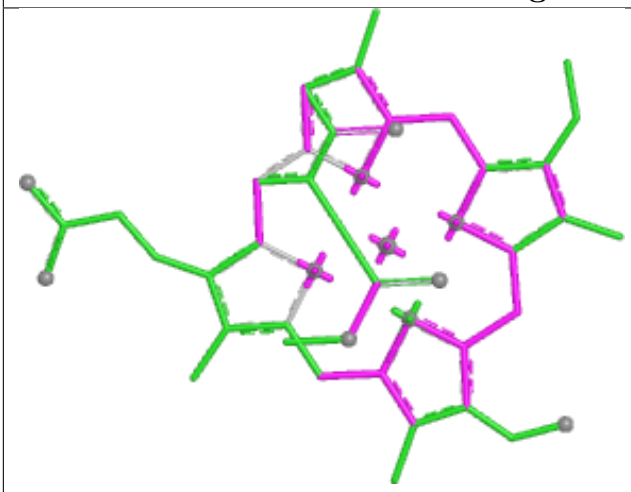


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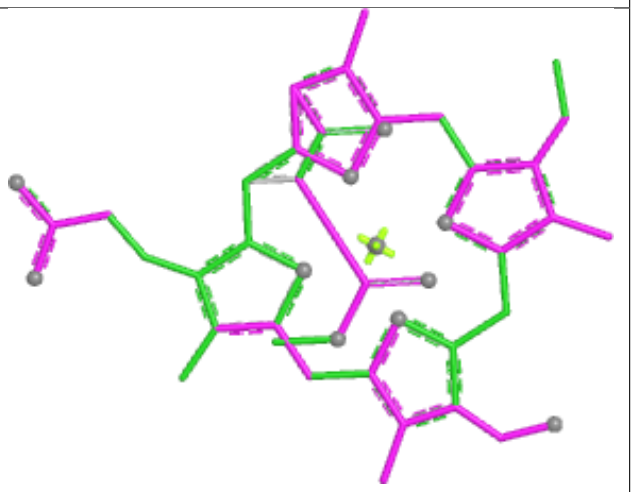


Rings

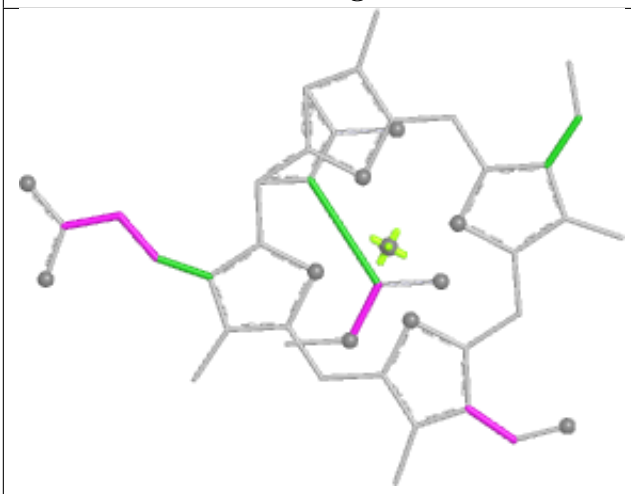
Ligand CL7 B 843



Bond lengths



Bond angles

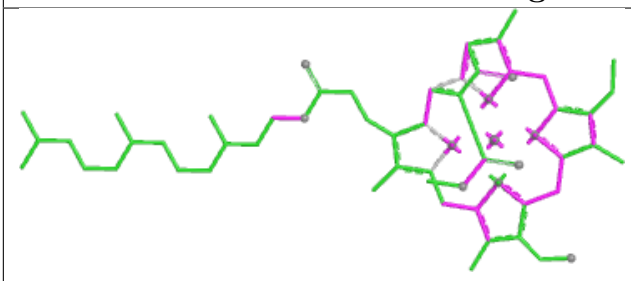


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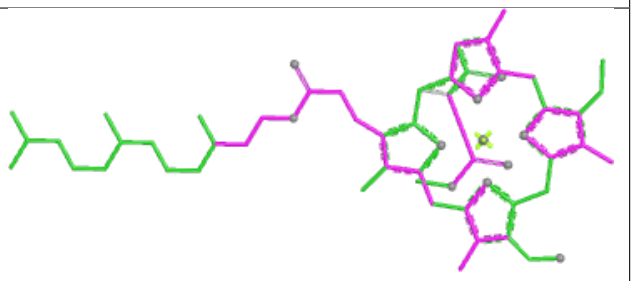


Rings

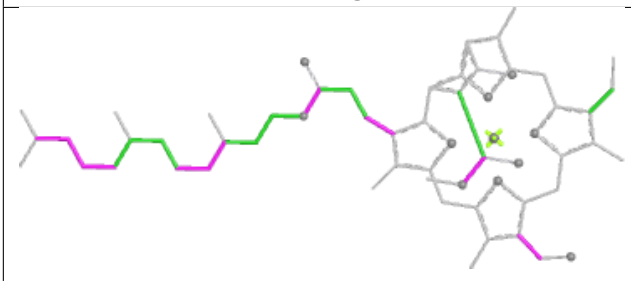
Ligand CL7 A 841



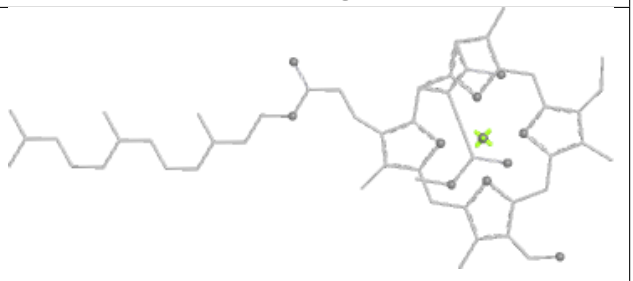
Bond lengths



Bond angles

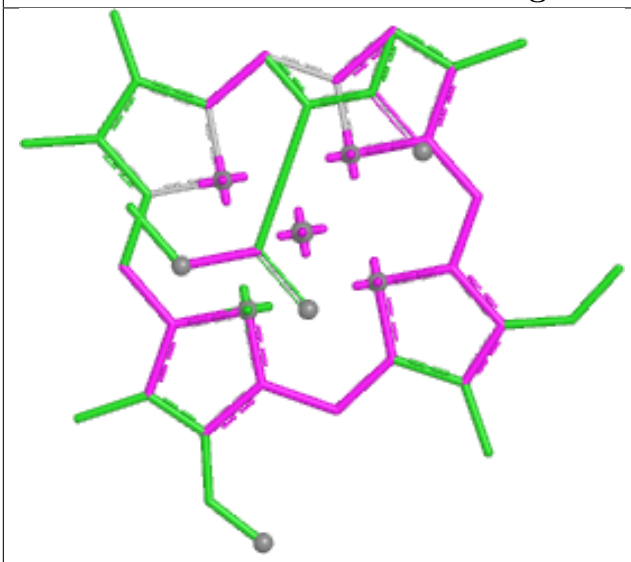


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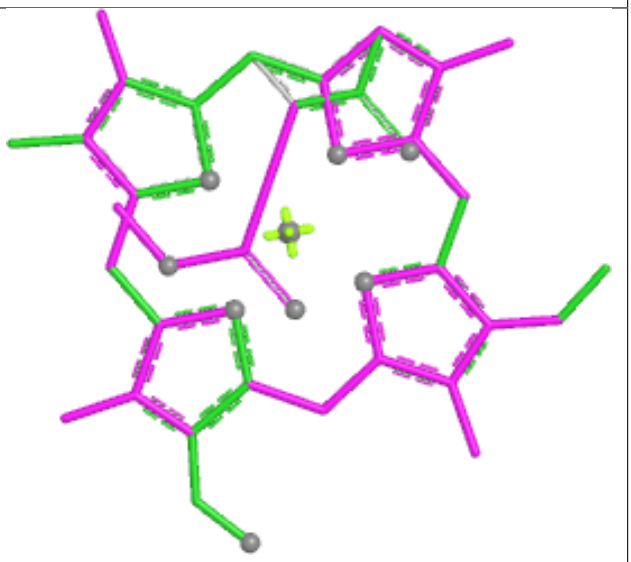


Rings

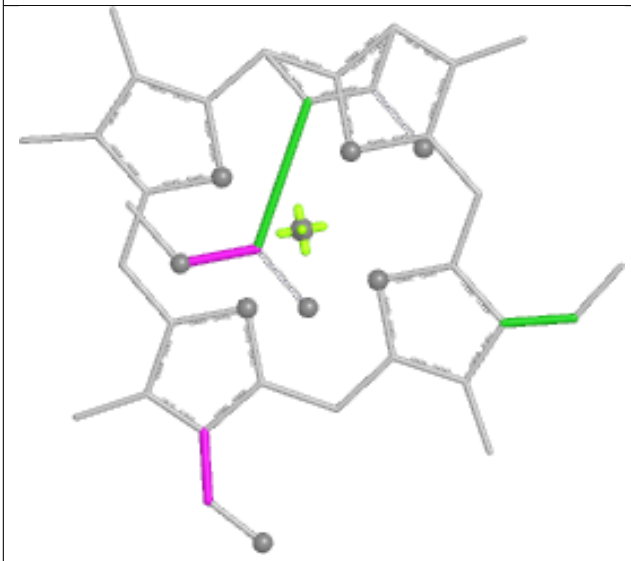
Ligand CL7 B 811



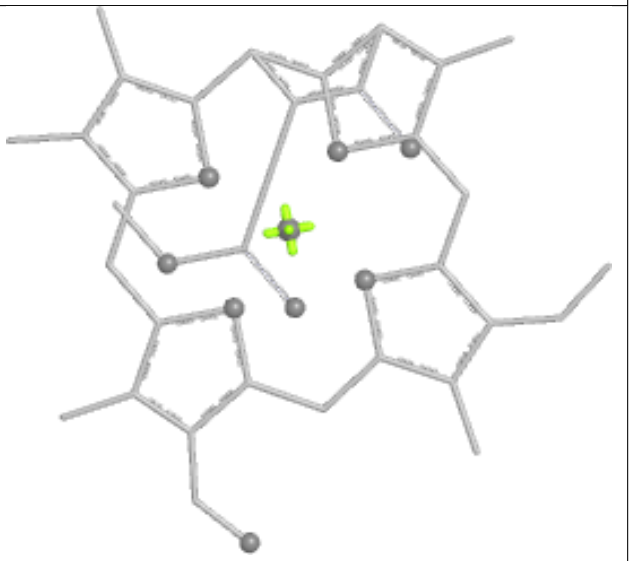
Bond lengths



Bond angles

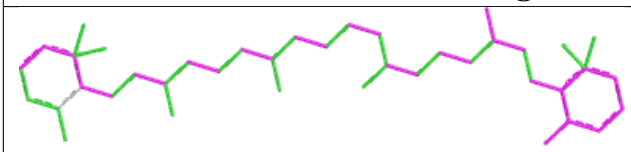


Torsions

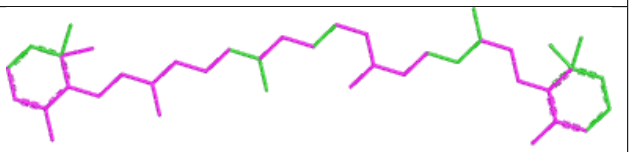


Rings

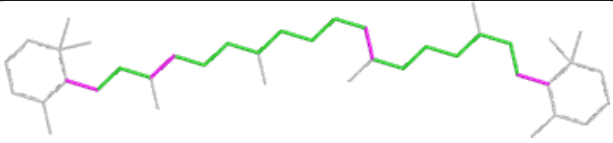
Ligand WVN A 851



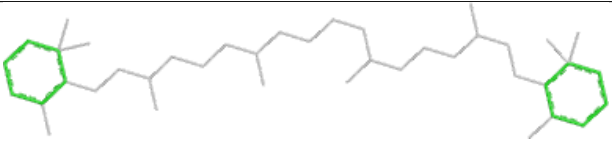
Bond lengths



Bond angles

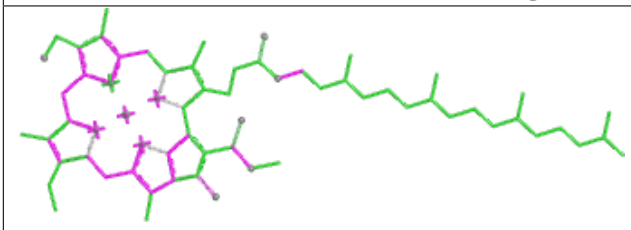


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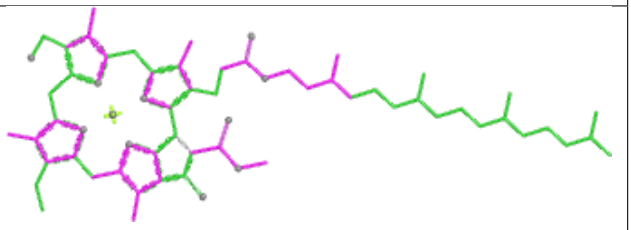


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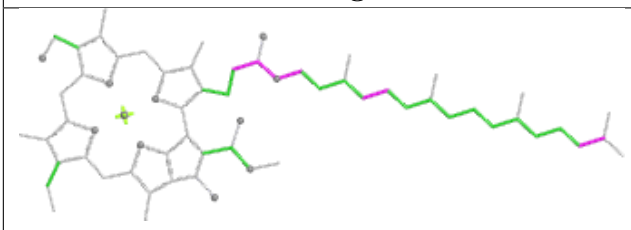
Ligand G9R A 801



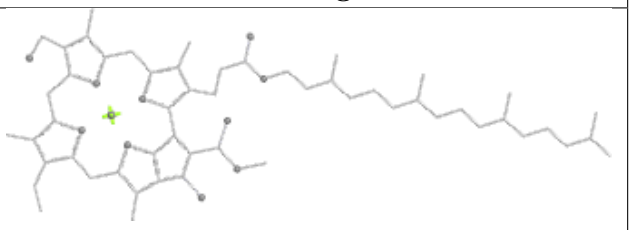
Bond lengths



Bond angles



Torsions



Rings

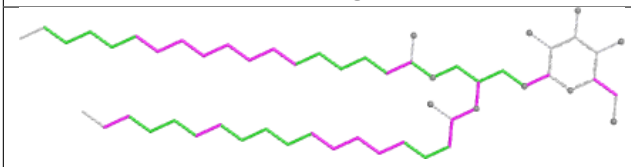
Ligand LMG B 827



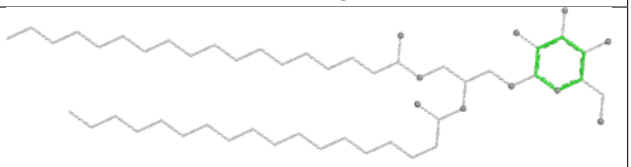
Bond lengths



Bond angles

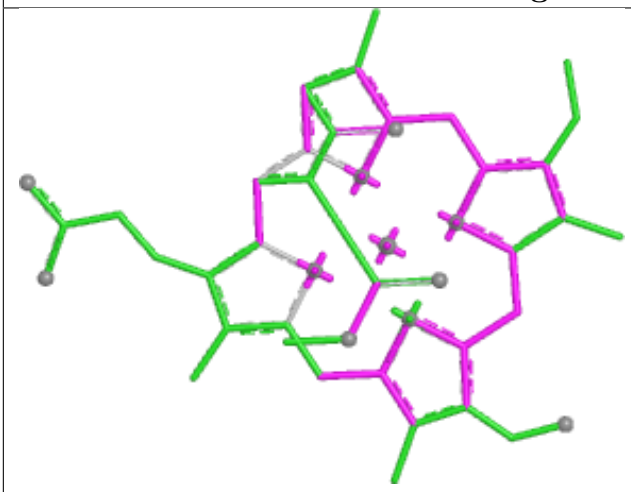


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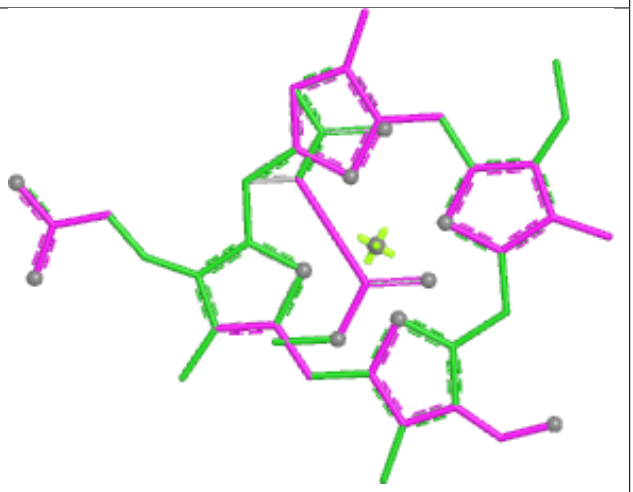


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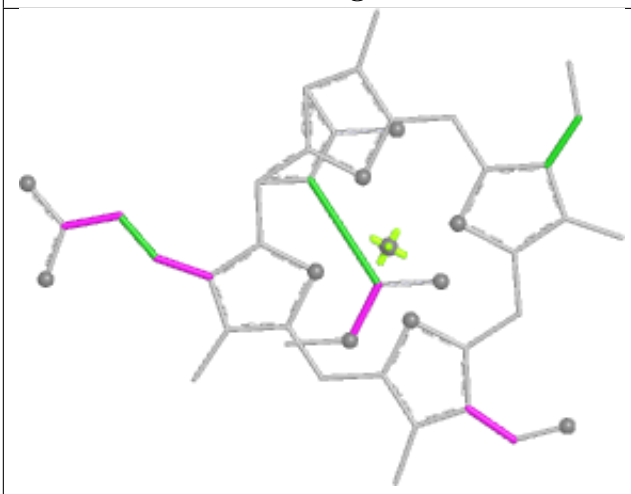
Ligand CL7 F 202



Bond lengths



Bond angles

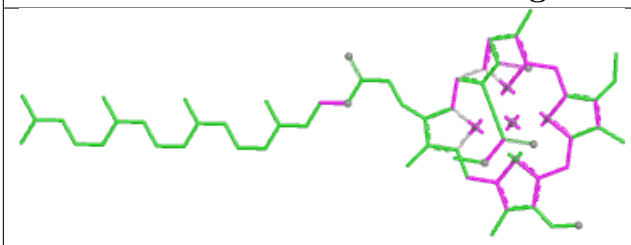


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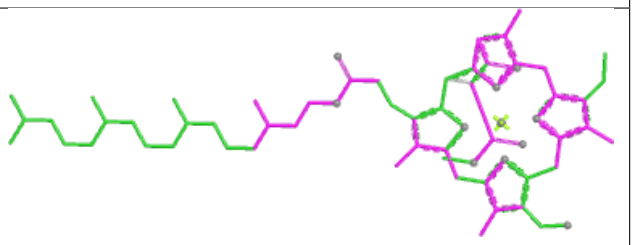


Rings

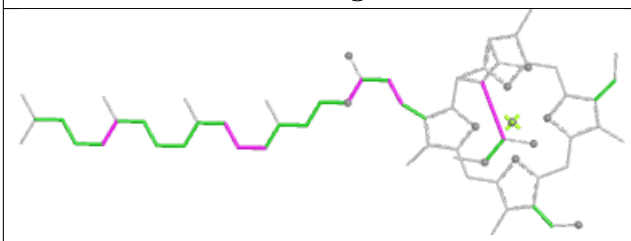
Ligand CL7 B 822



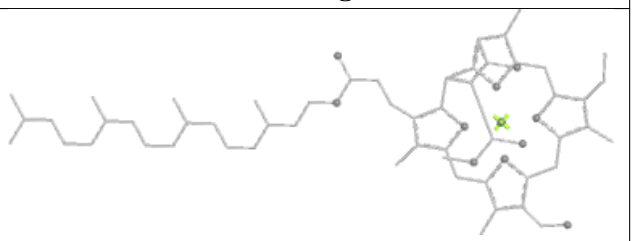
Bond lengths



Bond angles

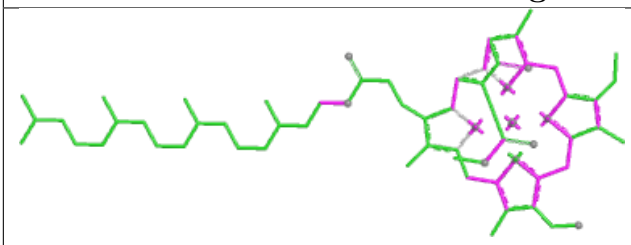


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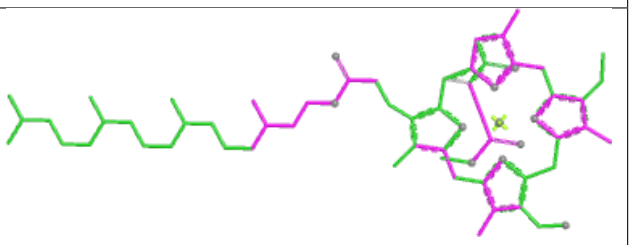


Rings

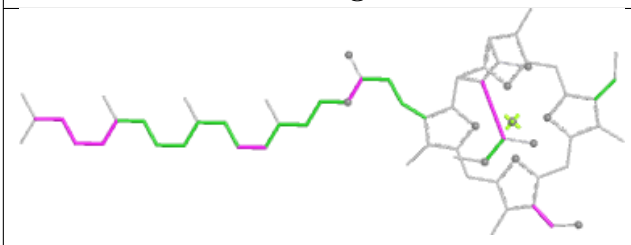
Ligand CL7 B 808



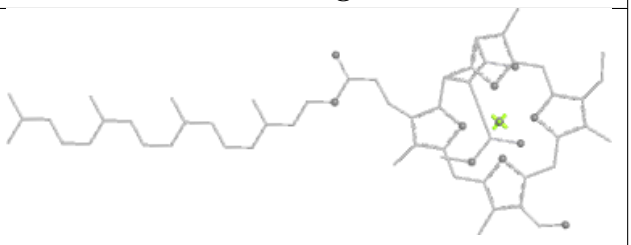
Bond lengths



Bond angles

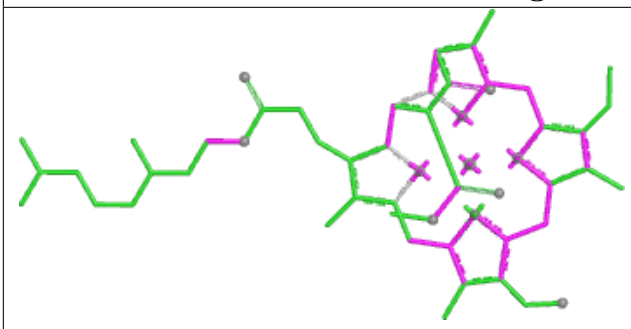


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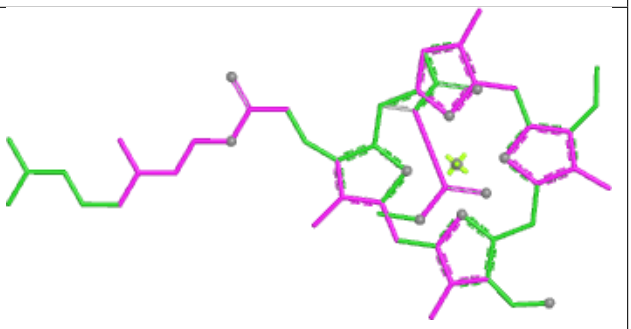


Rings

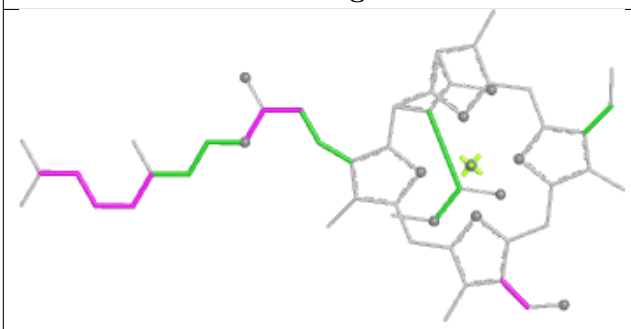
Ligand CL7 A 835



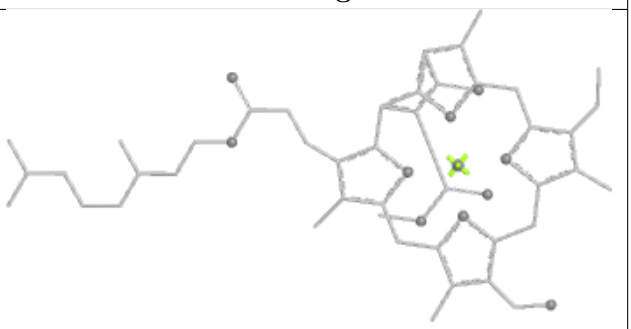
Bond lengths



Bond angles

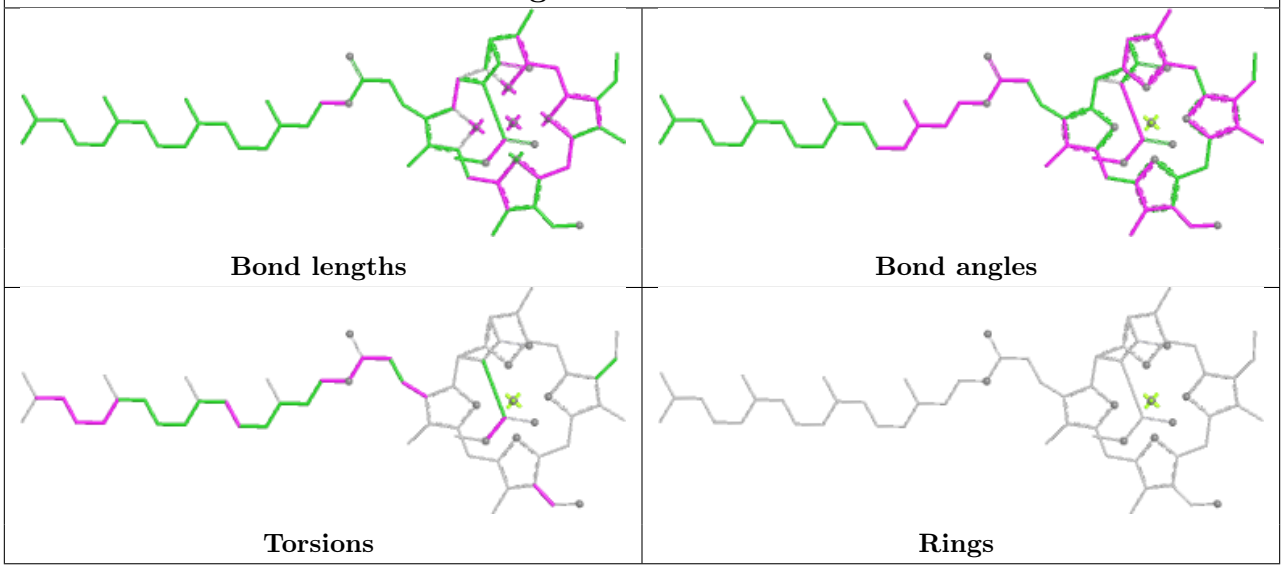


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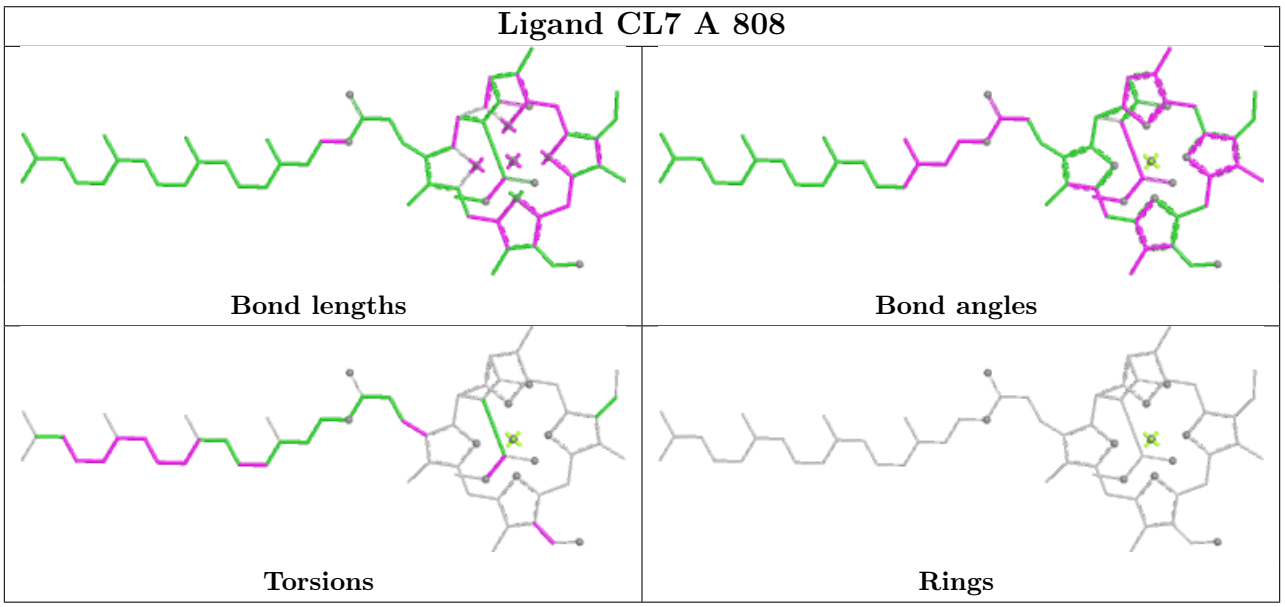


Rings

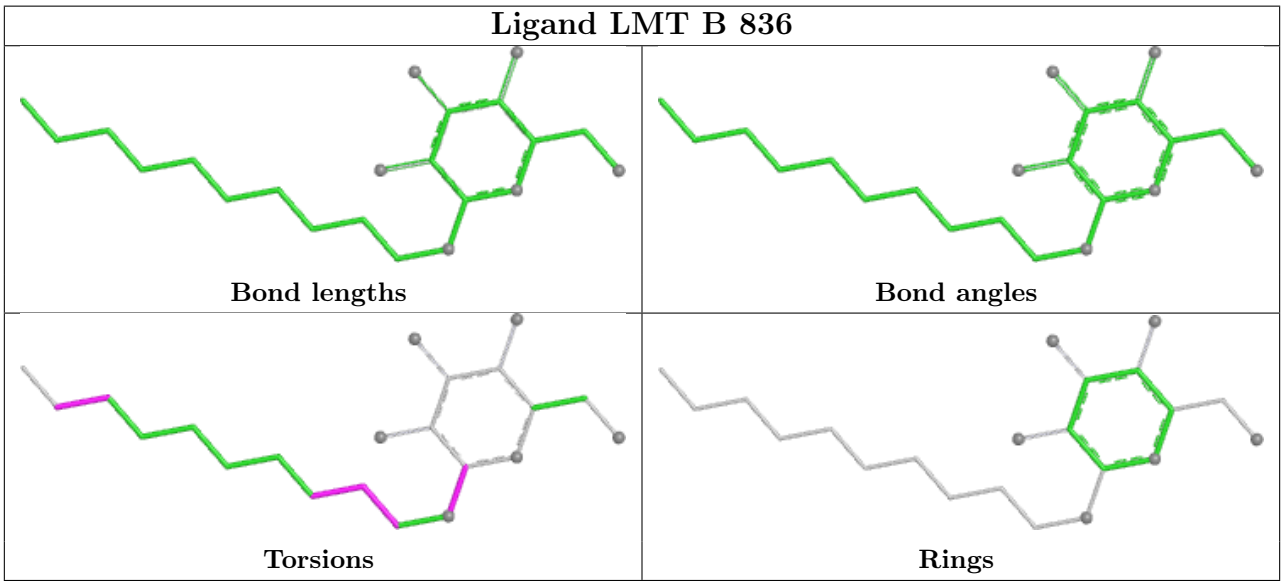
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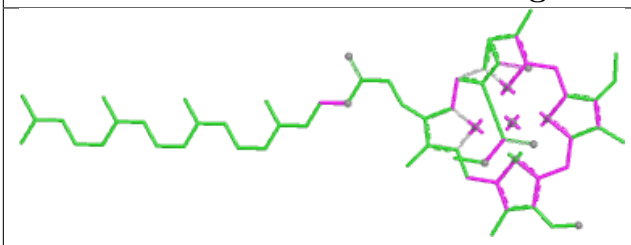
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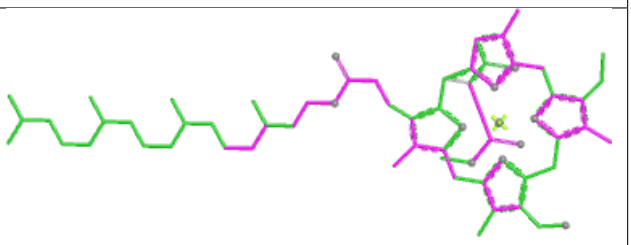
Ligand LMT B 836



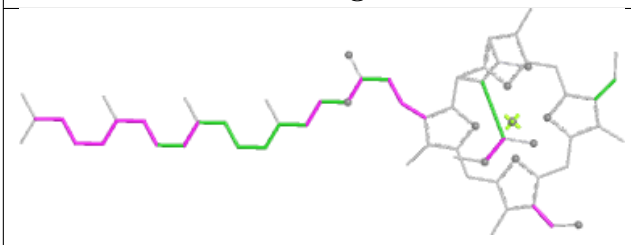
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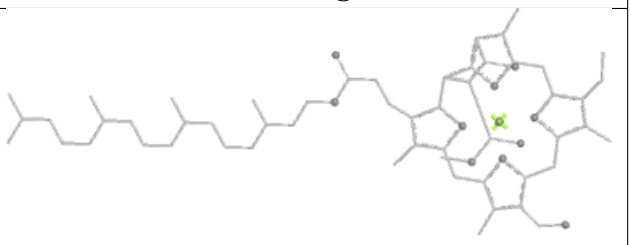
Bond lengths



Bond angles



Torsions

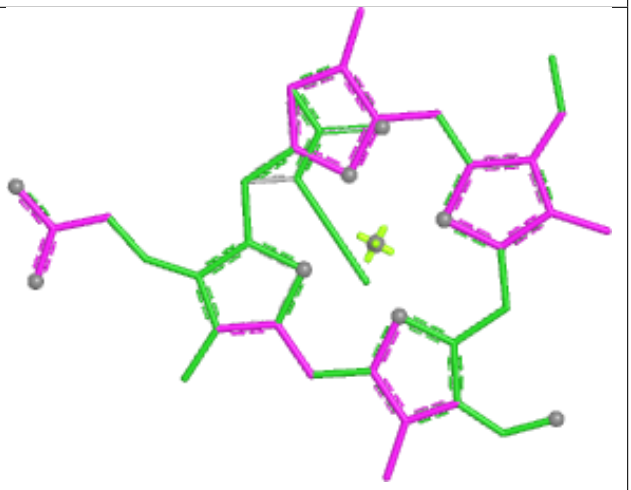


Rings

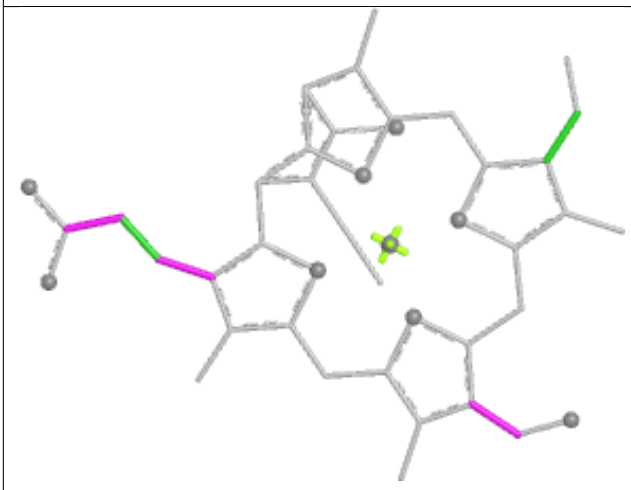
Ligand CL7 J 103



Bond lengths



Bond angles

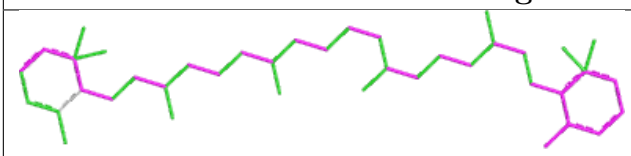


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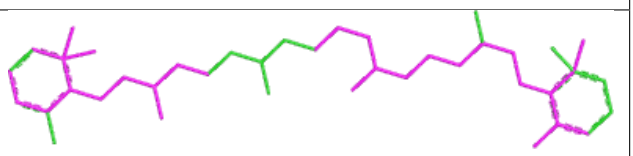


Rings

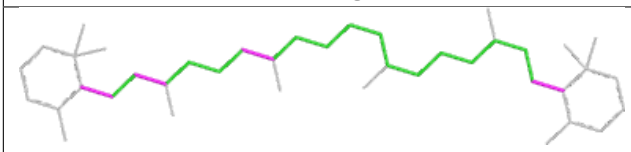
Ligand WVN A 850



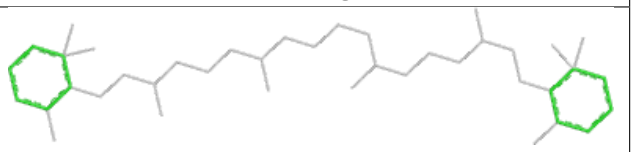
Bond lengths



Bond angles

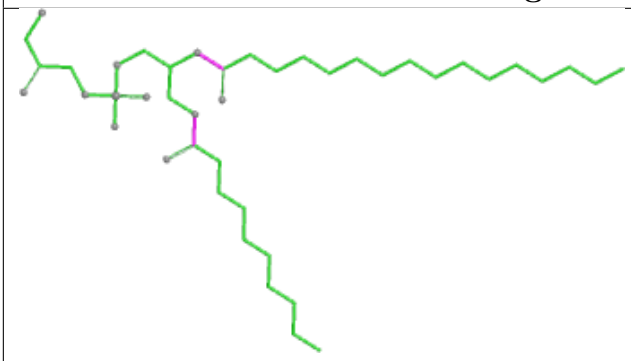


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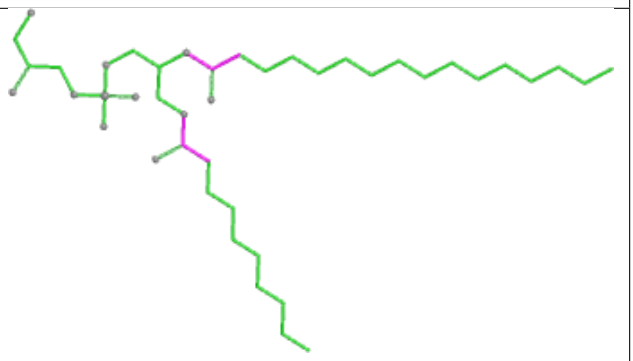


Rings

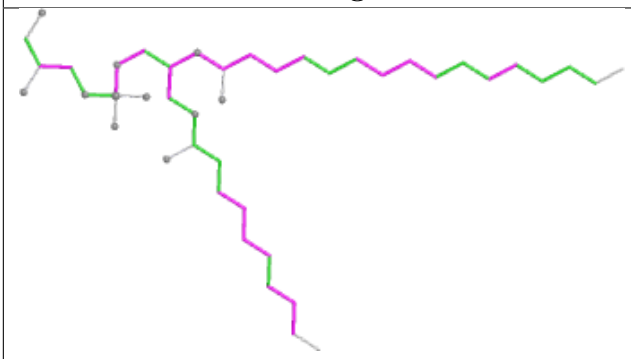
Ligand LHG L 208



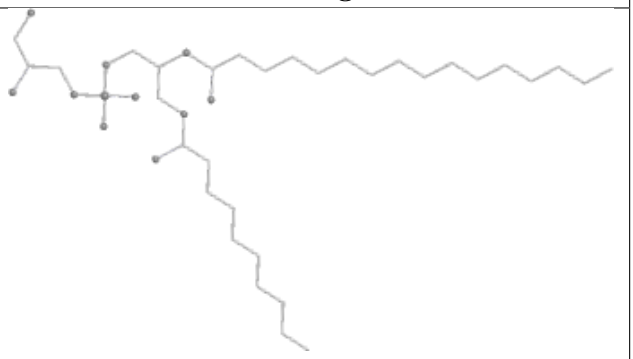
Bond lengths



Bond angles

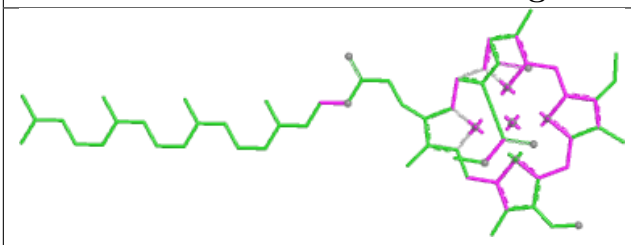


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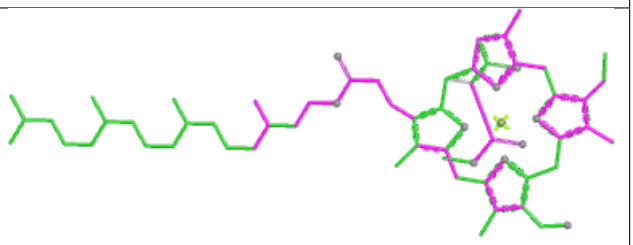


Rings

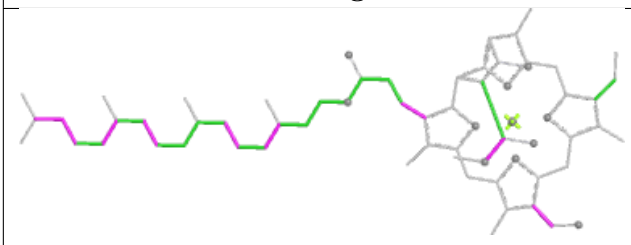
Ligand CL7 A 811



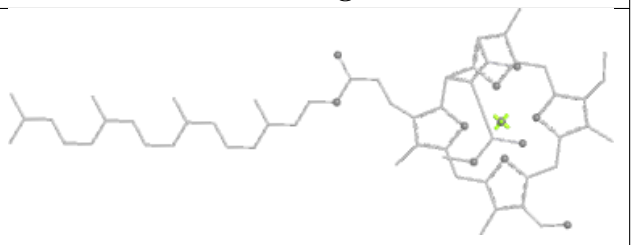
Bond lengths



Bond angles

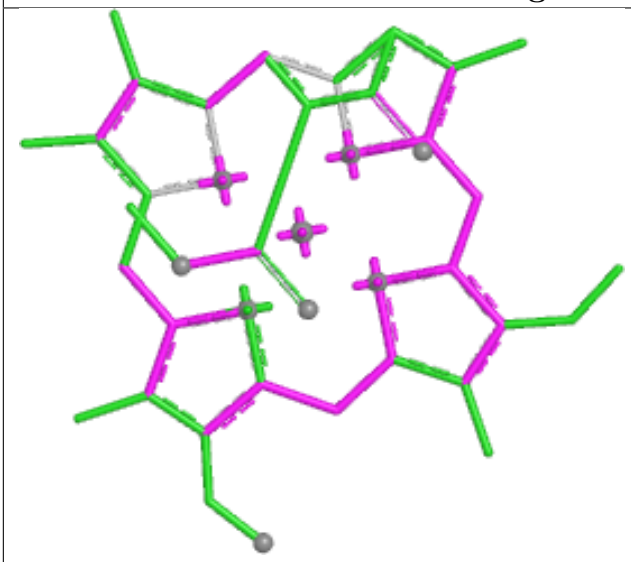


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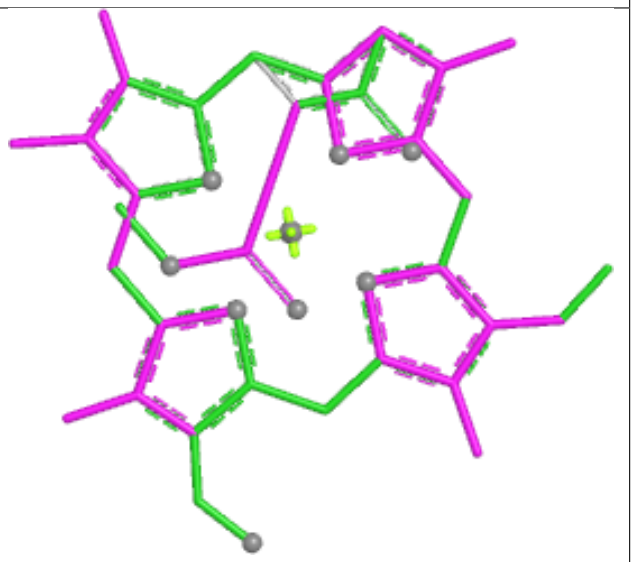


Rings

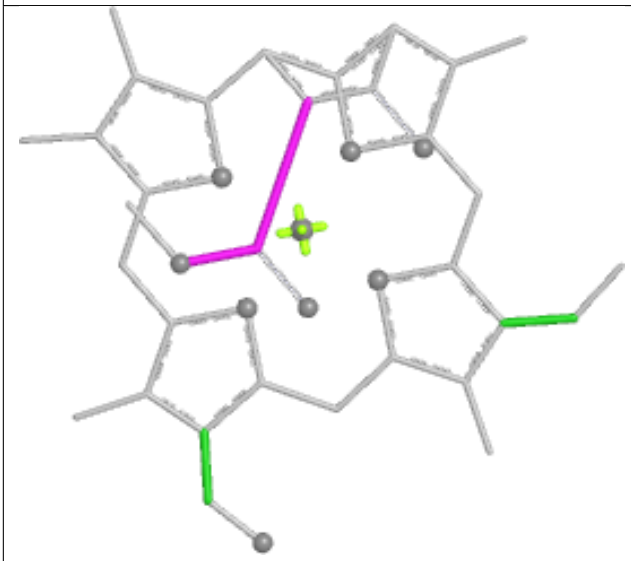
Ligand CL7 A 855



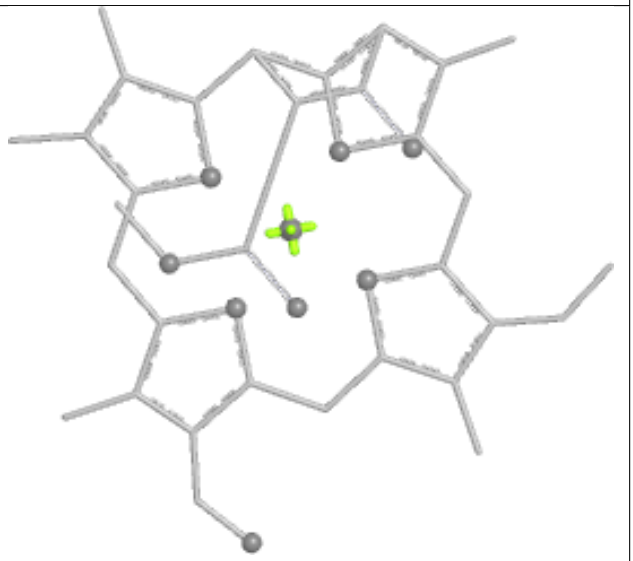
Bond lengths



Bond angles

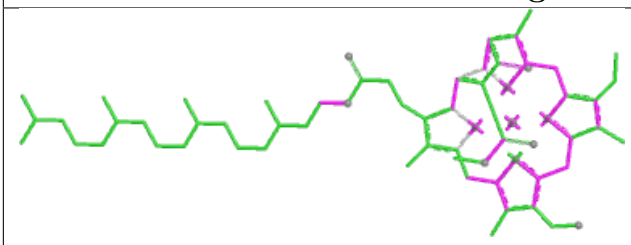


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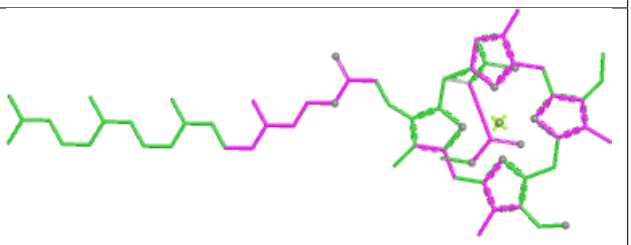


Rings

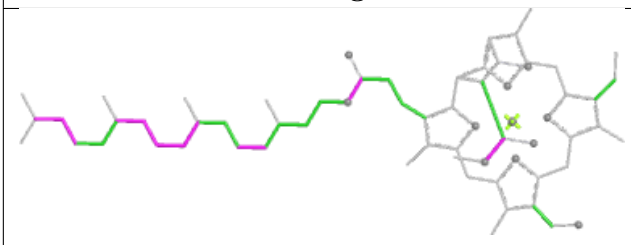
Ligand CL7 A 803



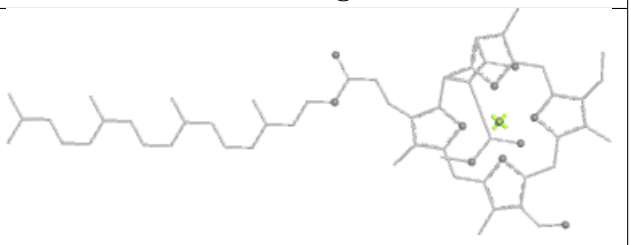
Bond lengths



Bond angles

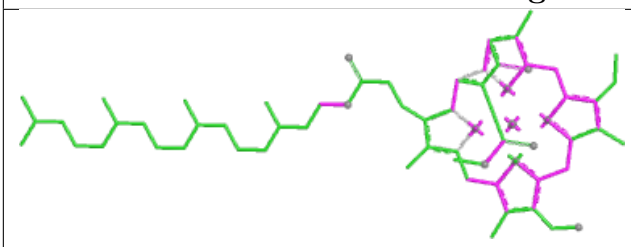


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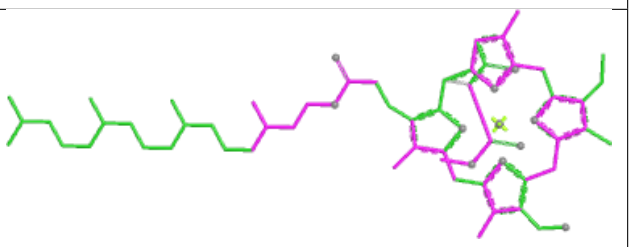


Rings

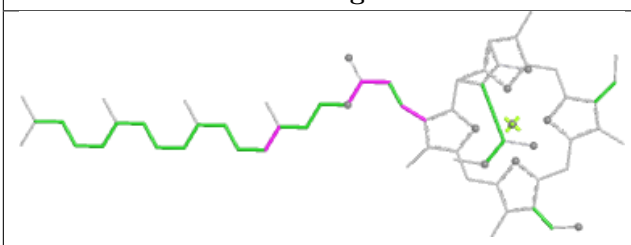
Ligand CL7 A 822



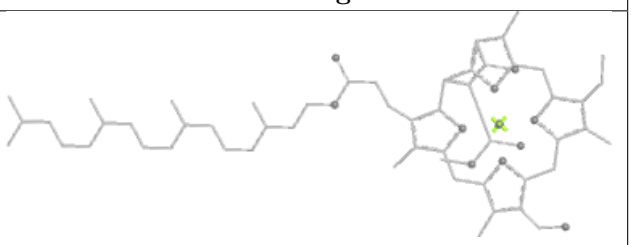
Bond lengths



Bond angles

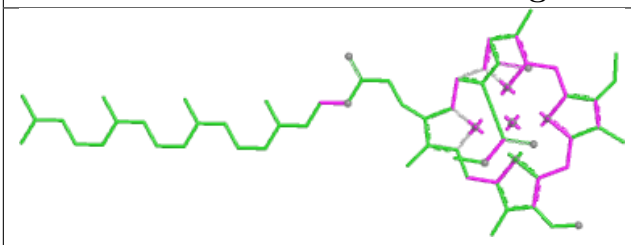


Torsions

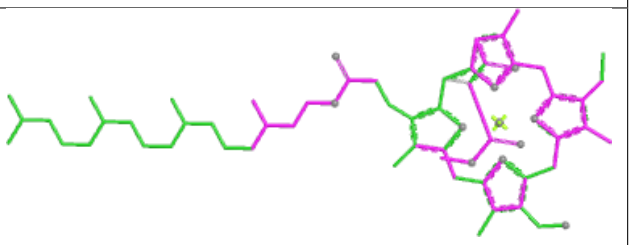


Rings

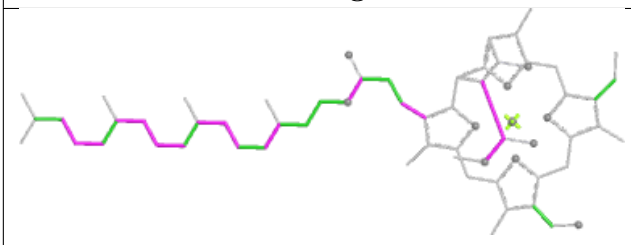
Ligand CL7 B 815



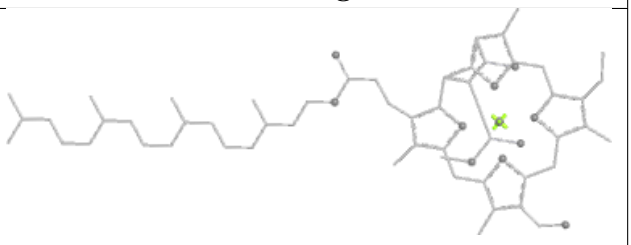
Bond lengths



Bond angles

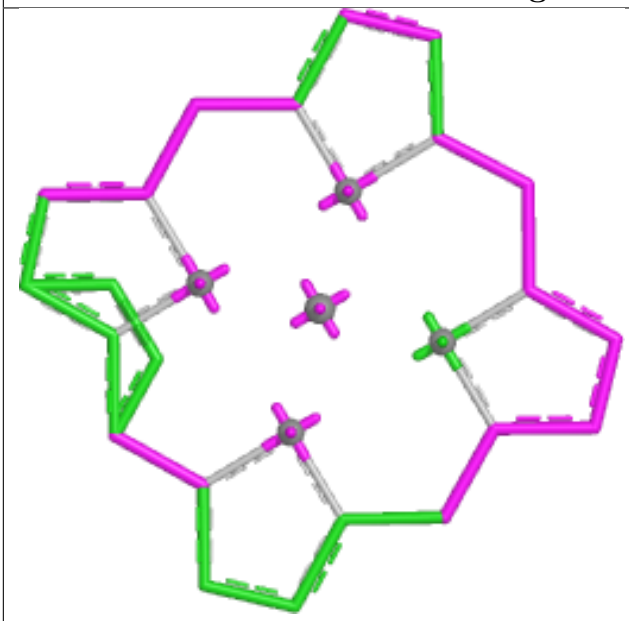


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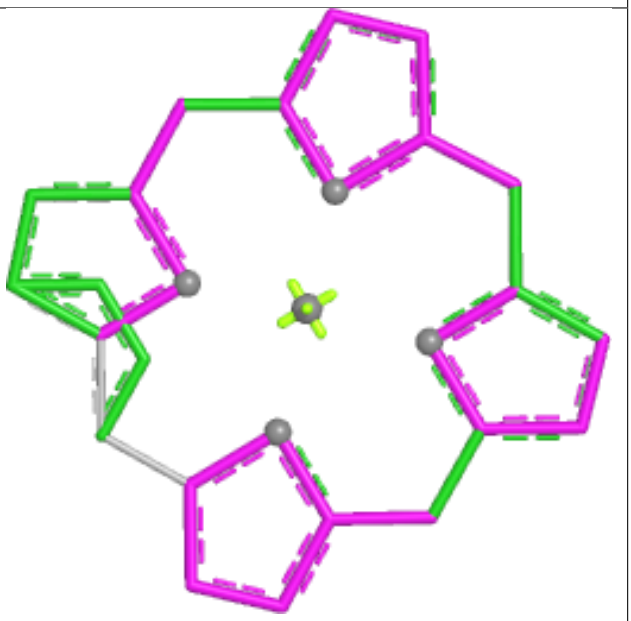


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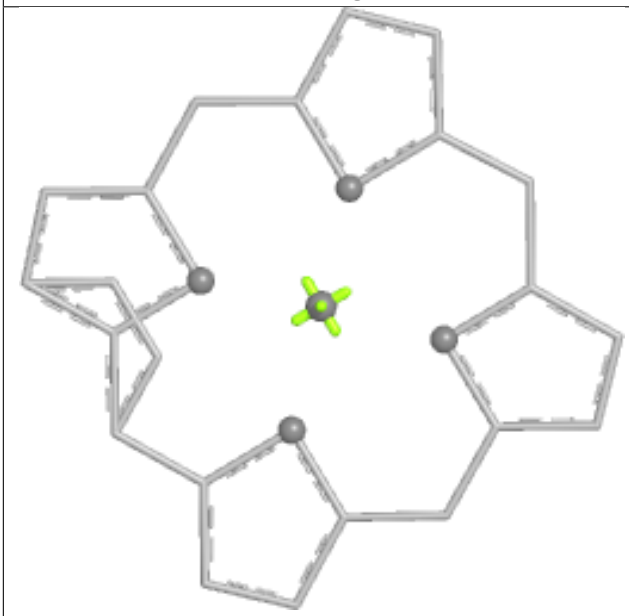
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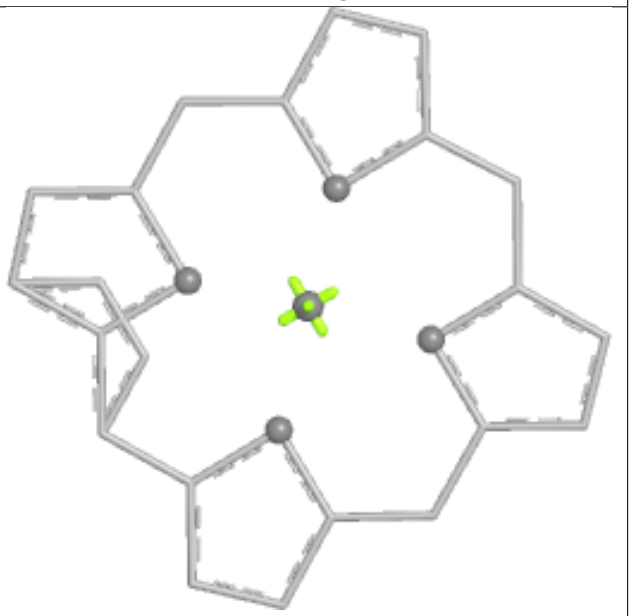
Bond lengths



Bond angles

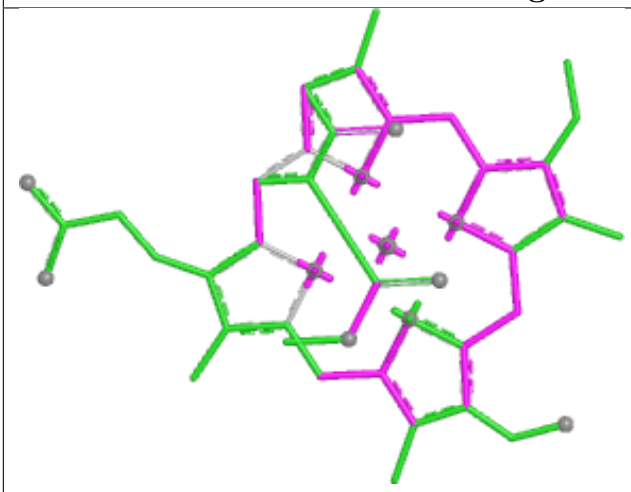


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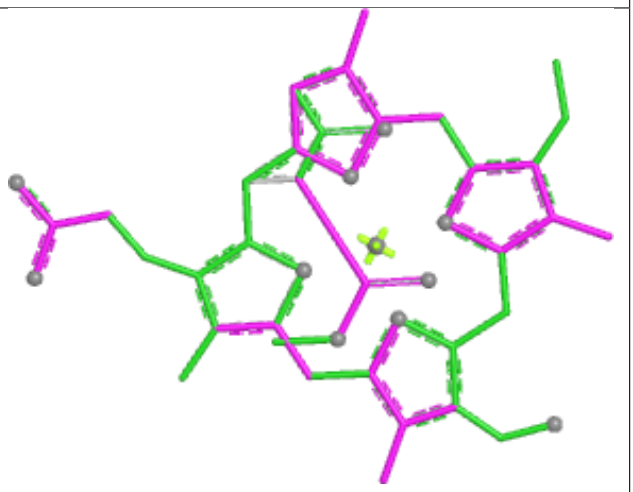


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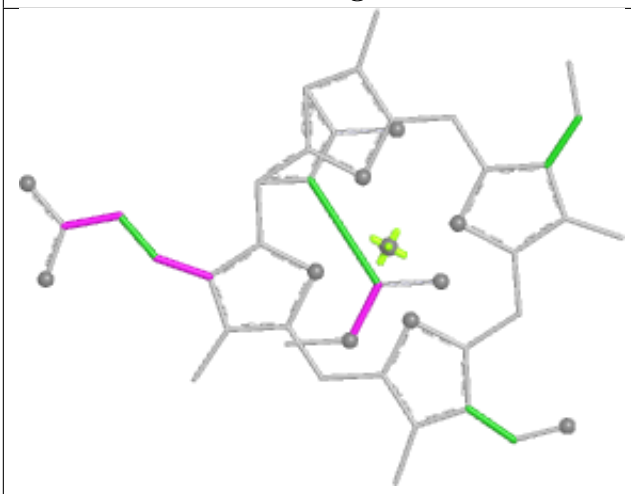
Ligand CL7 A 831



Bond lengths



Bond angles

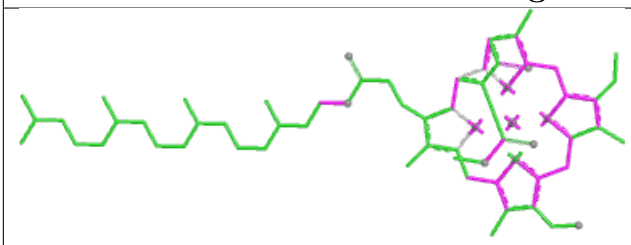


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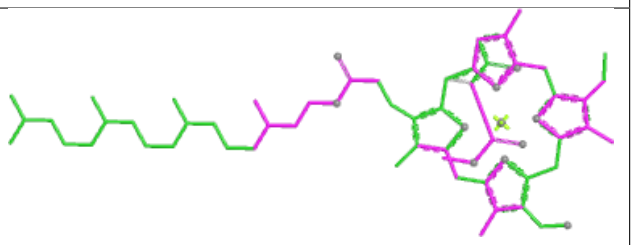


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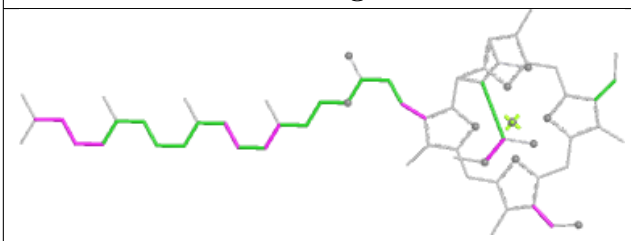
Ligand CL7 A 840



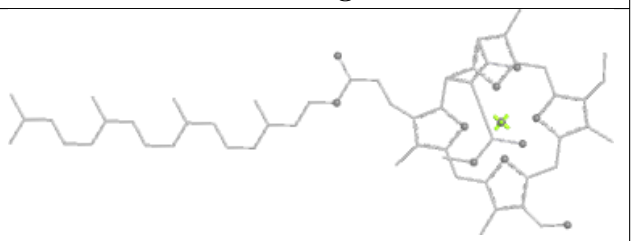
Bond lengths



Bond angles

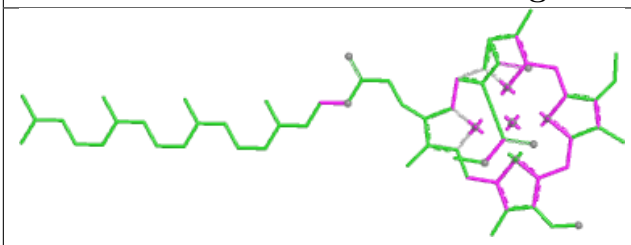


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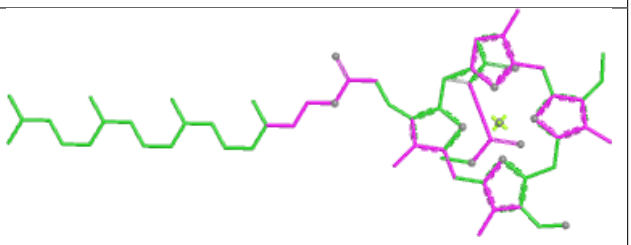


Rings

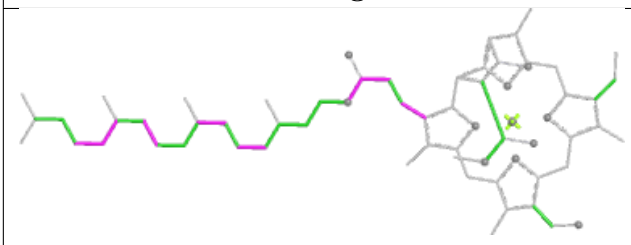
Ligand CL7 B 828



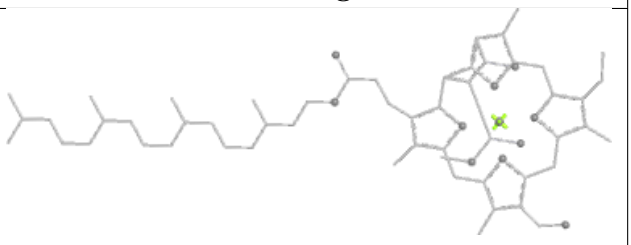
Bond lengths



Bond angles

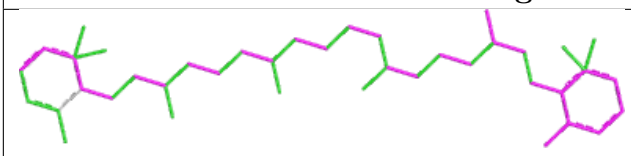


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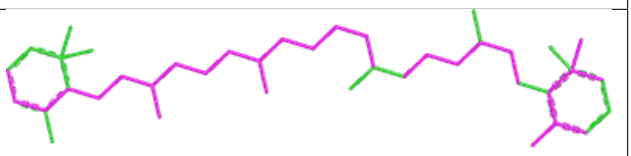


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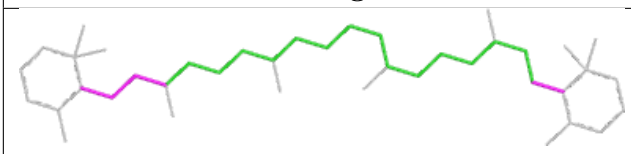
Ligand WVN A 853



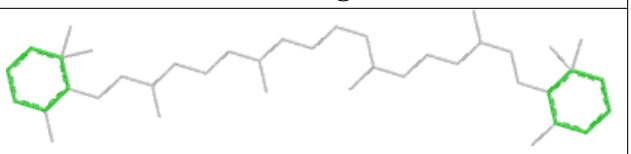
Bond lengths



Bond angles

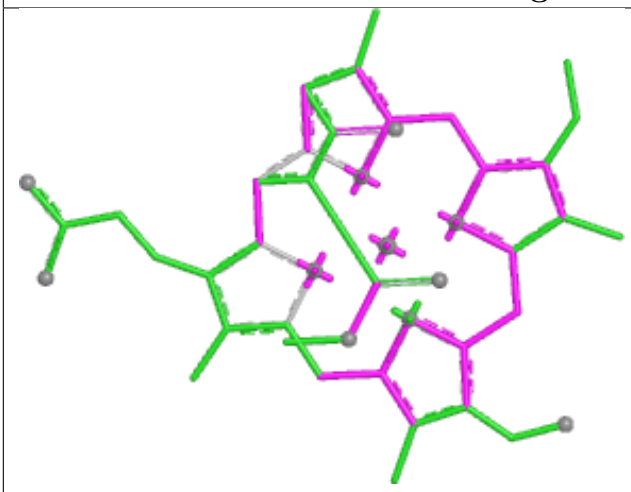


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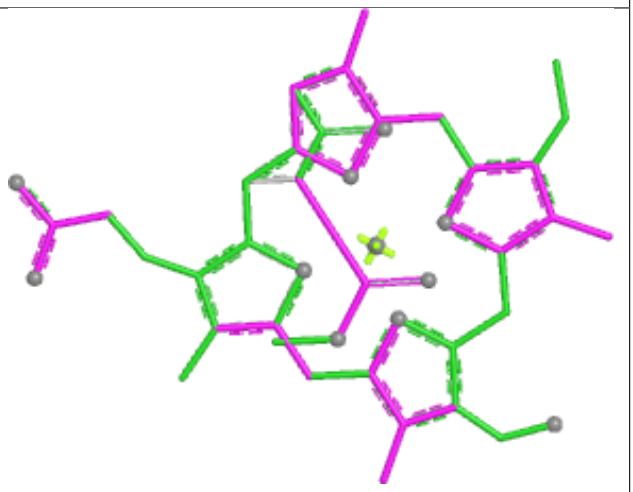


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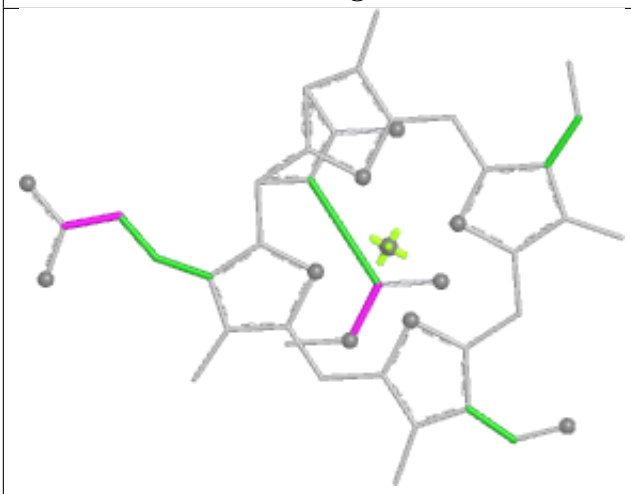
Ligand CL7 F 206



Bond lengths



Bond angles

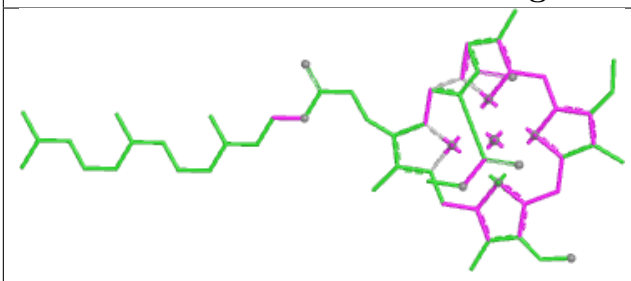


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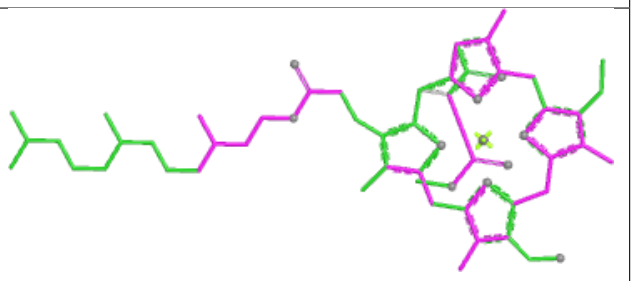


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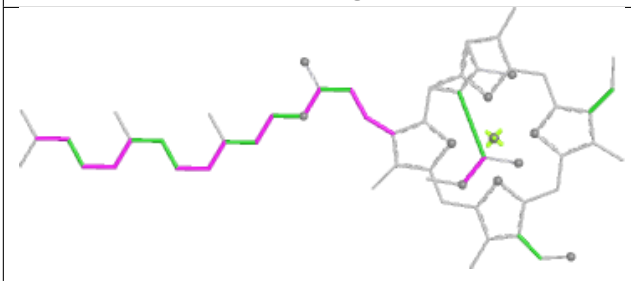
Ligand CL7 B 812



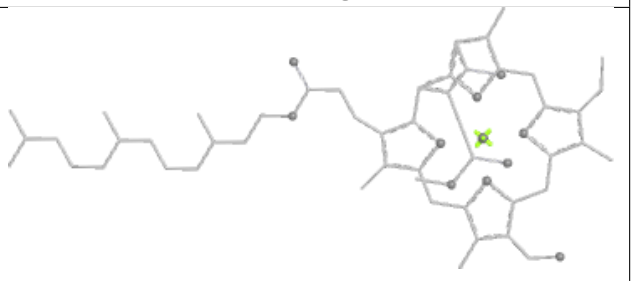
Bond lengths



Bond angles

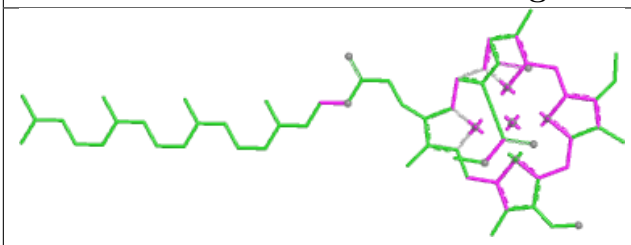


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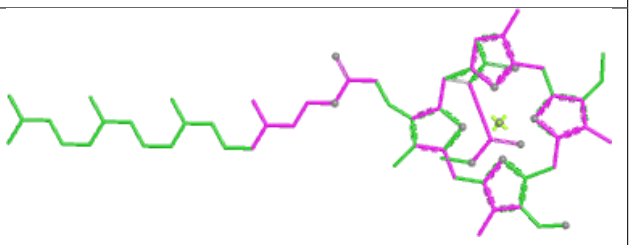


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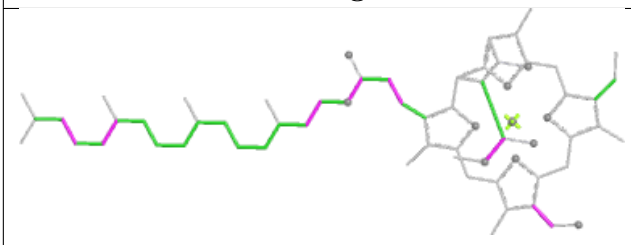
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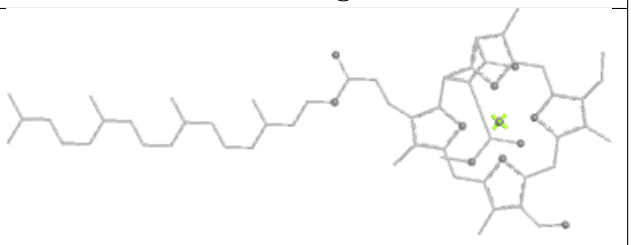
Bond lengths



Bond angles

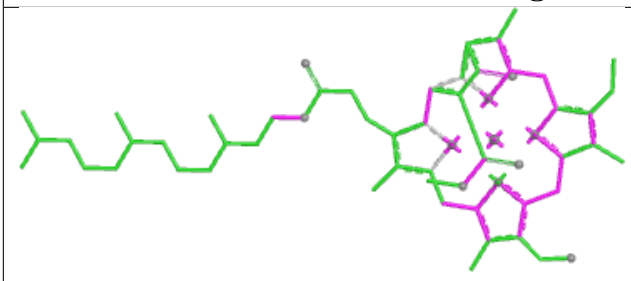


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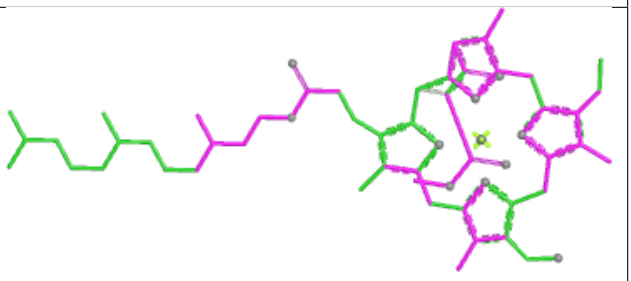


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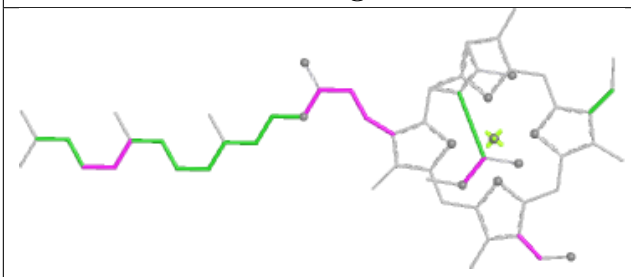
Ligand CL7 A 836



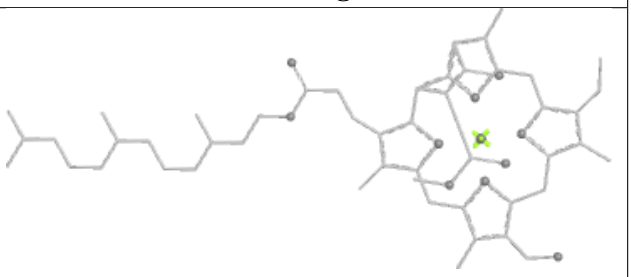
Bond lengths



Bond angles

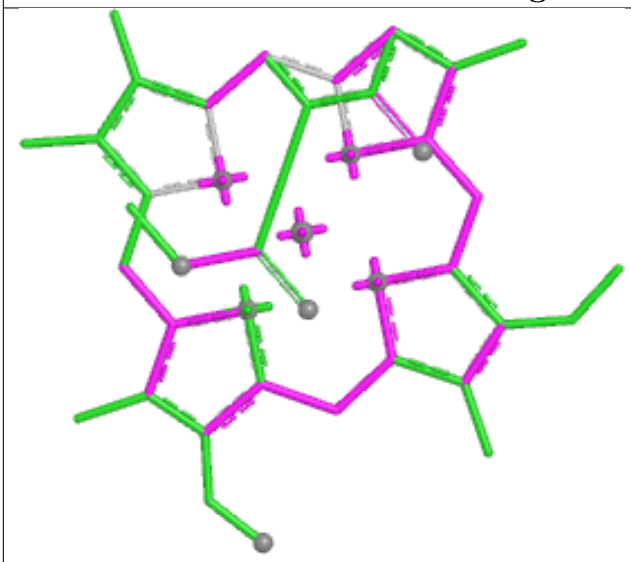


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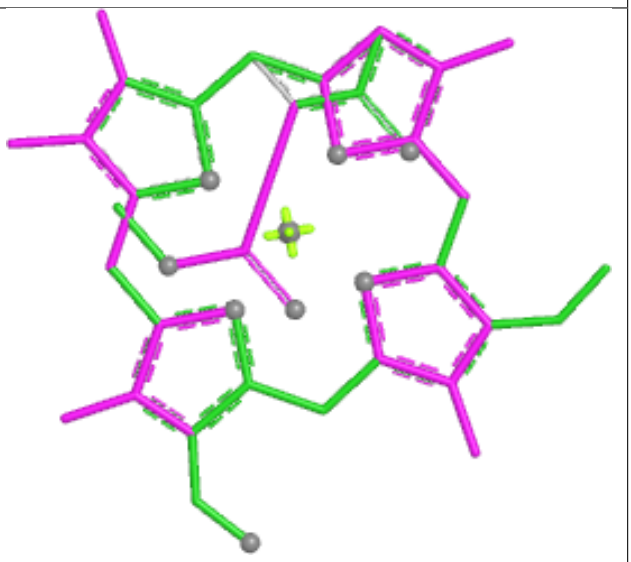


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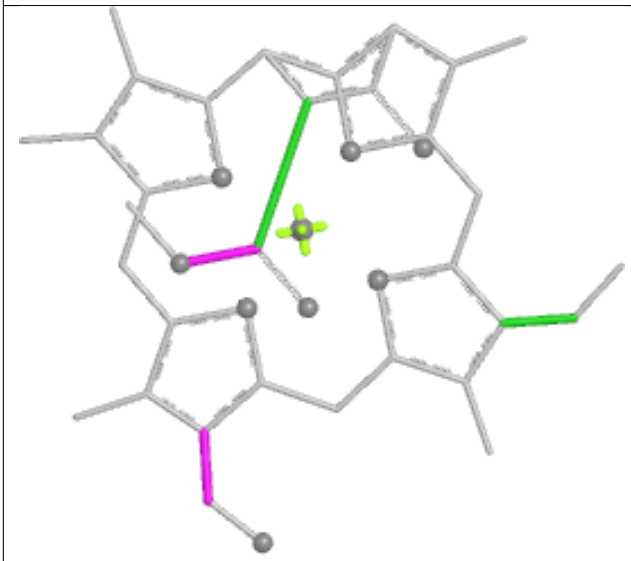
Ligand CL7 B 813



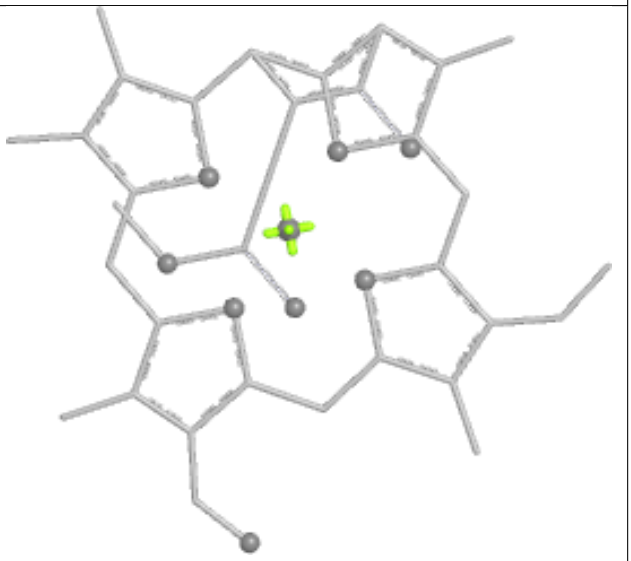
Bond lengths



Bond angles

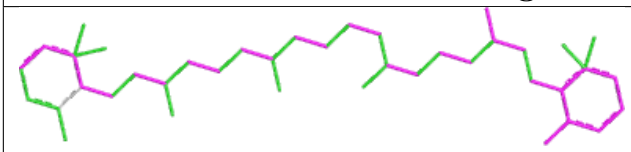


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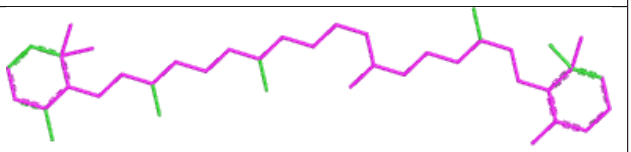


Rings

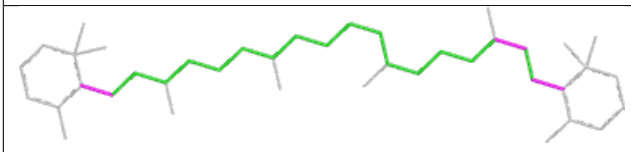
Ligand WVN L 210



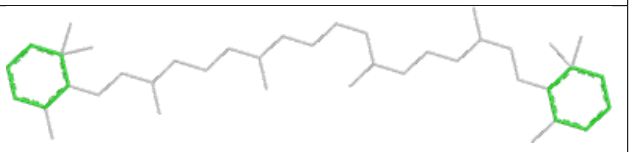
Bond lengths



Bond angles

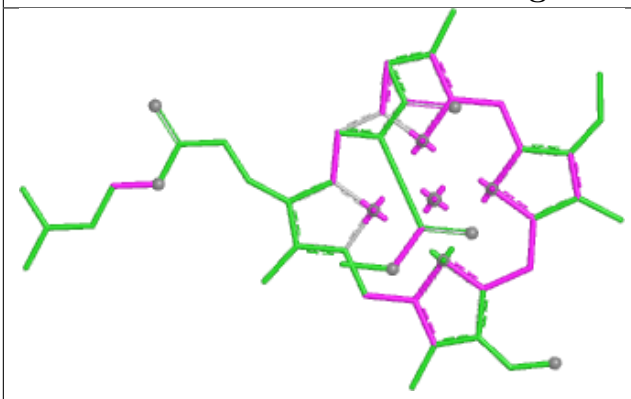


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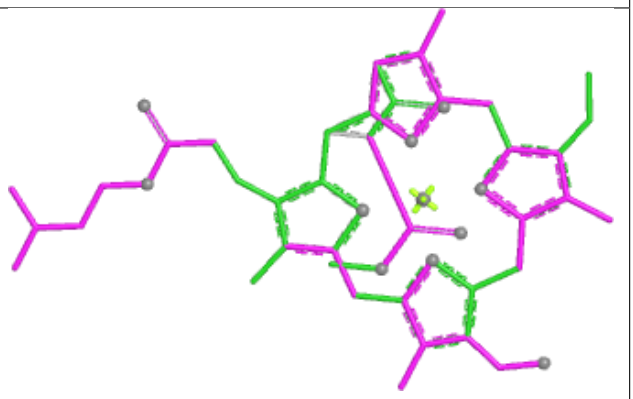


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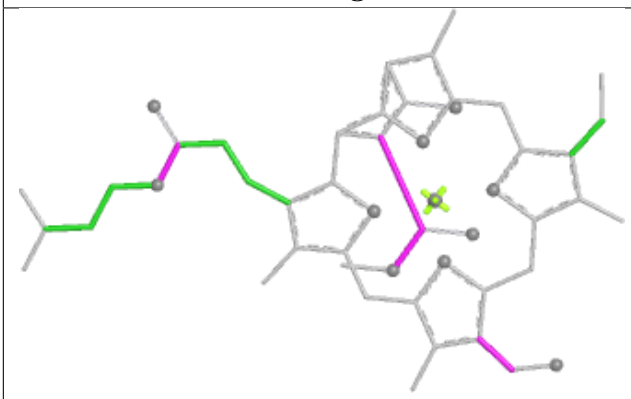
Ligand CL7 B 831



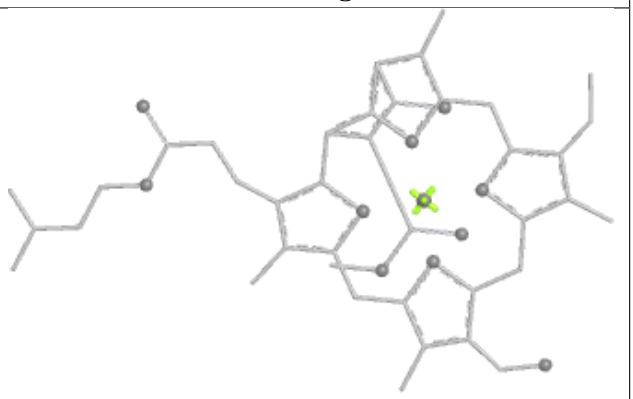
Bond lengths



Bond angles

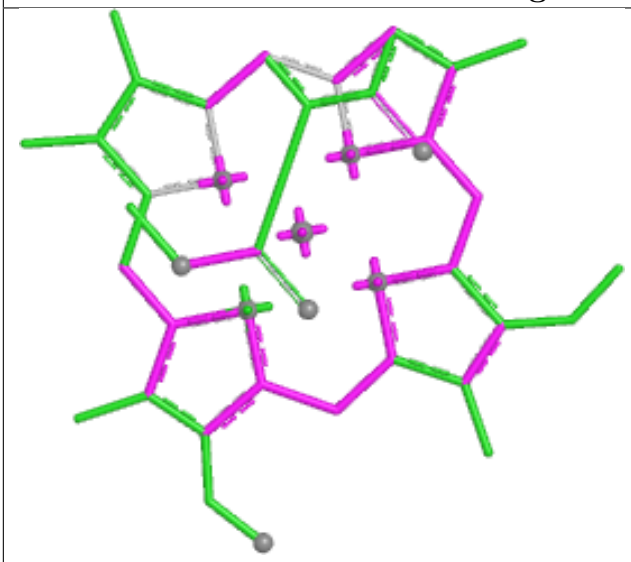


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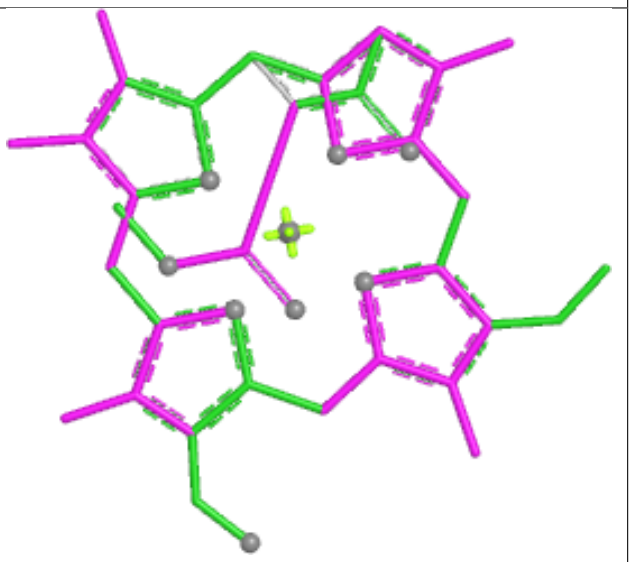


Rings

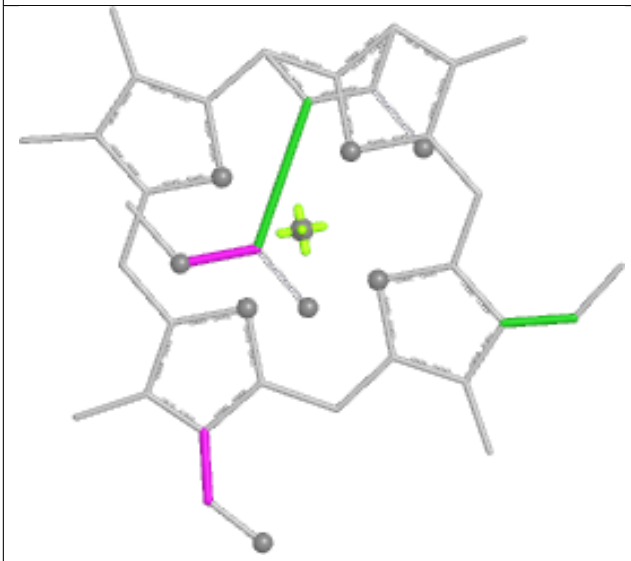
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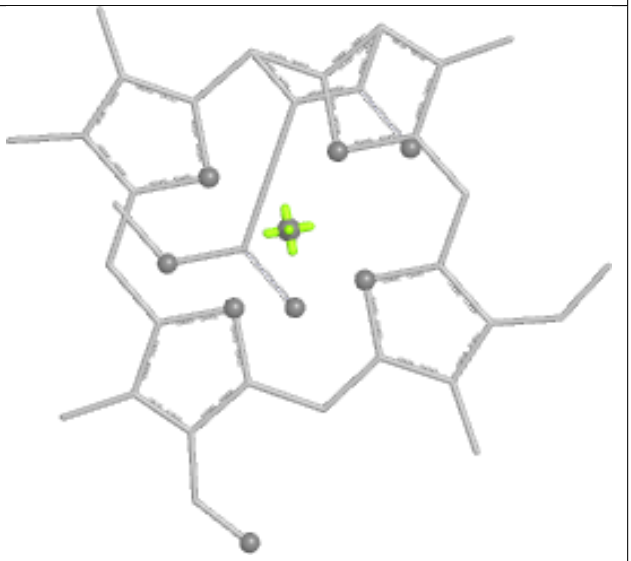
Bond lengths



Bond angles

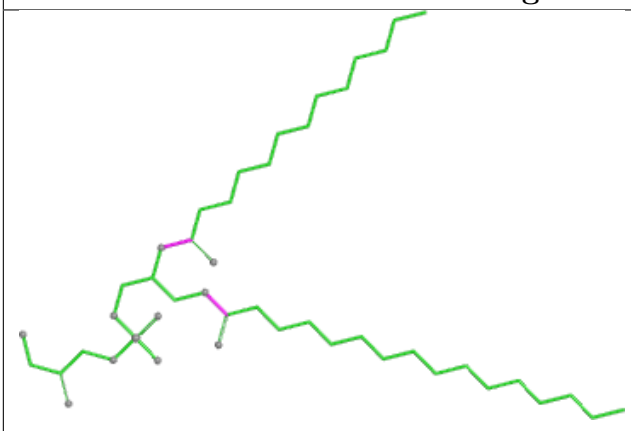


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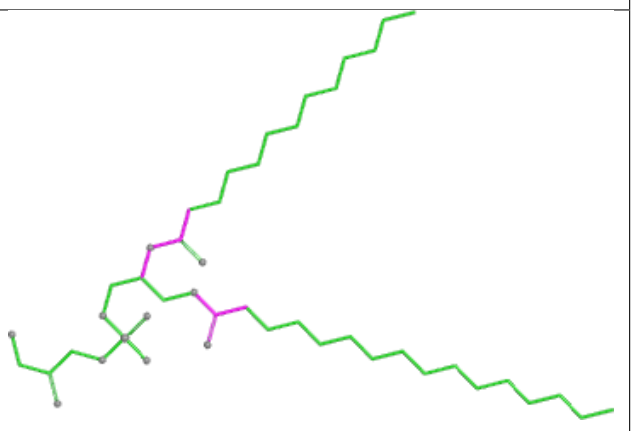


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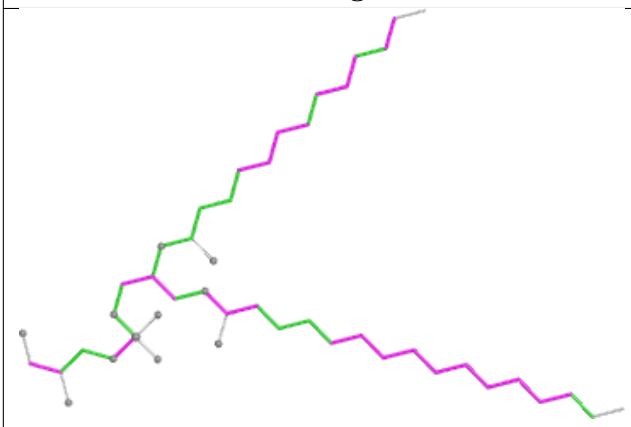
Ligand LHG A 821



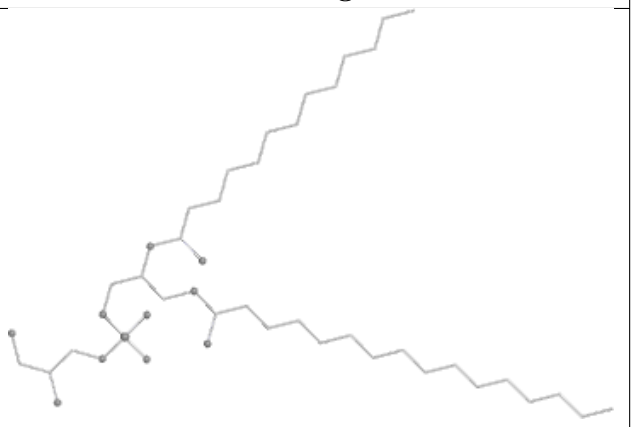
Bond lengths



Bond angles

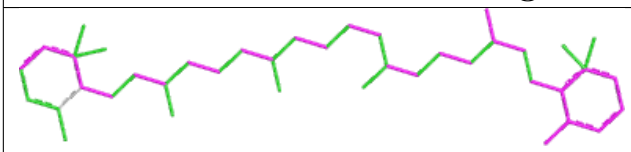


Torsions

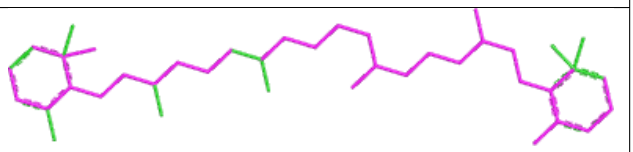


Rings

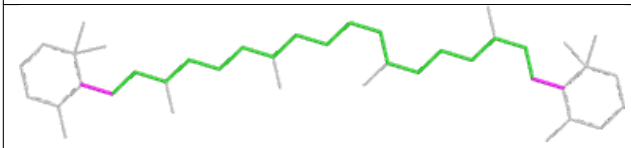
Ligand WVN J 101



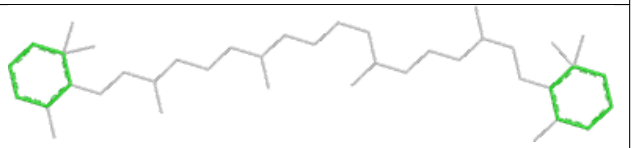
Bond lengths



Bond angles

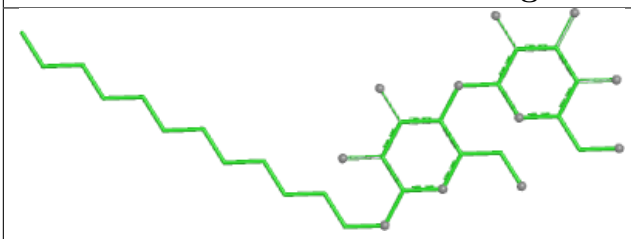


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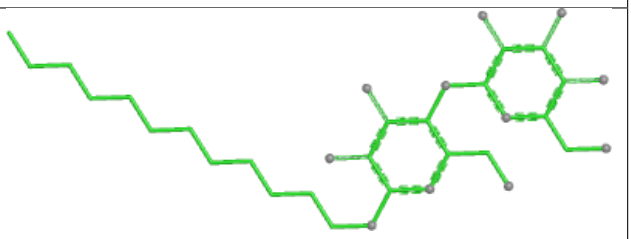


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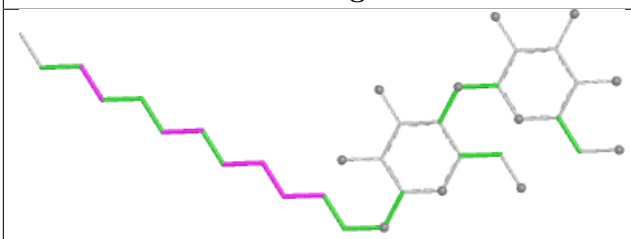
Ligand LMT A 834



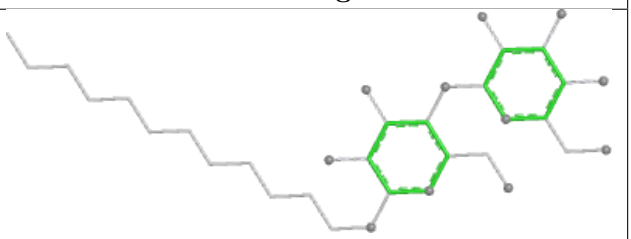
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Bond angles

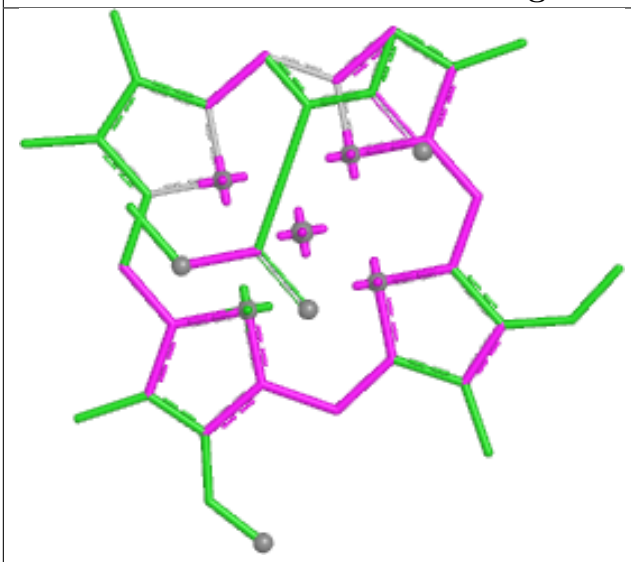


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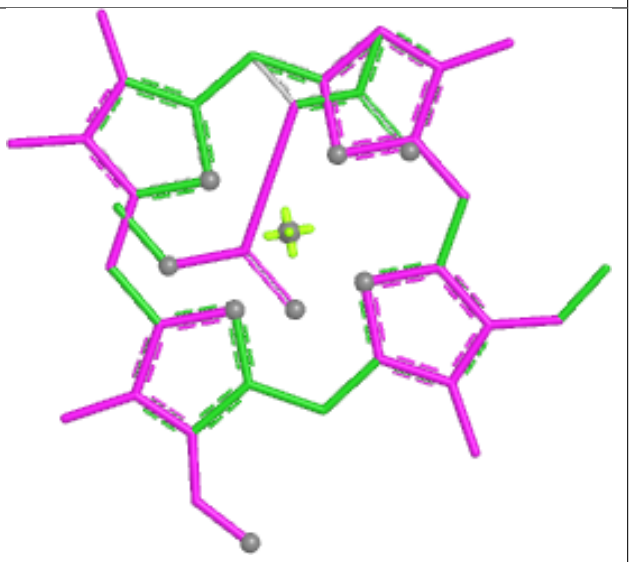


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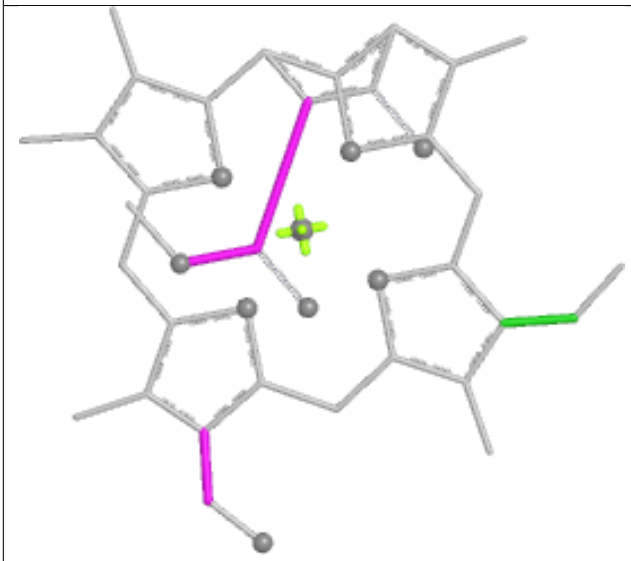
Ligand CL7 A 810



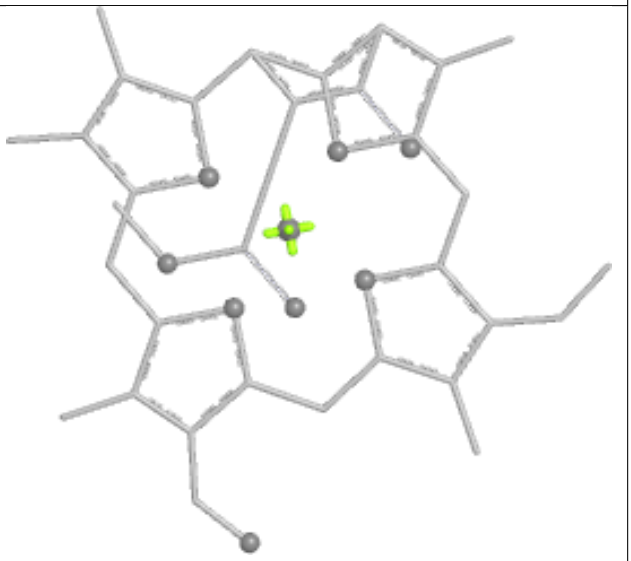
Bond lengths



Bond angles

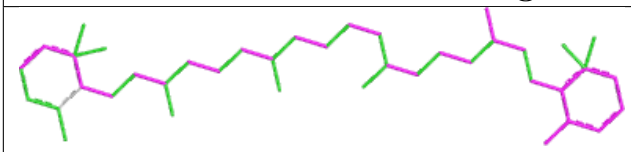


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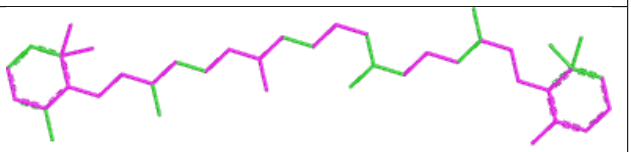


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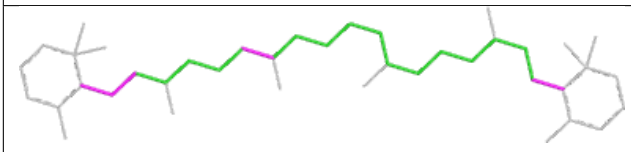
Ligand WVN F 204



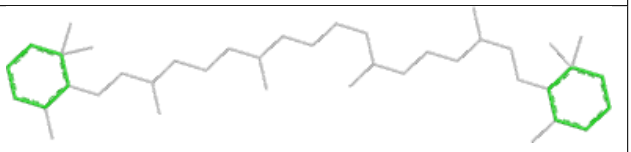
Bond lengths



Bond angles

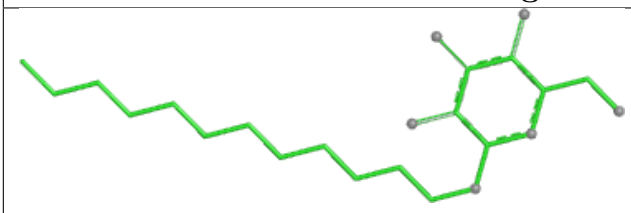


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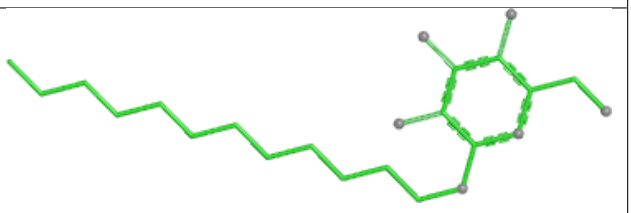


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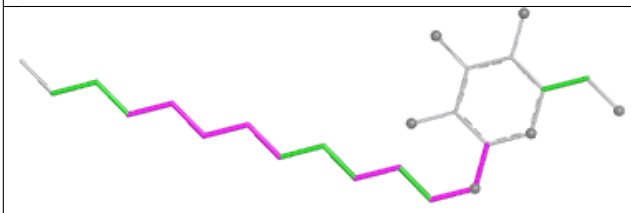
Ligand LMT B 835



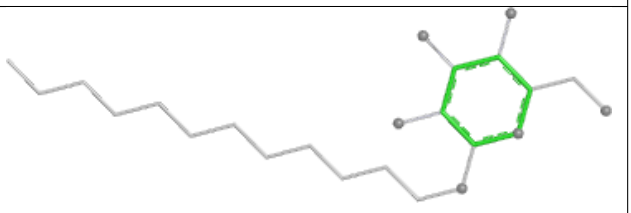
Bond lengths



Bond angles

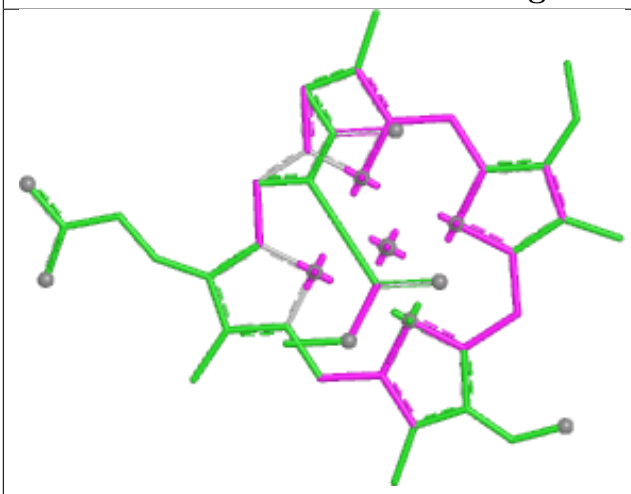


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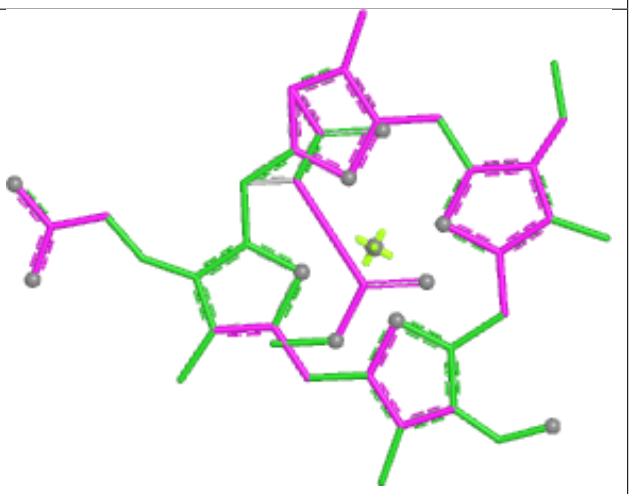


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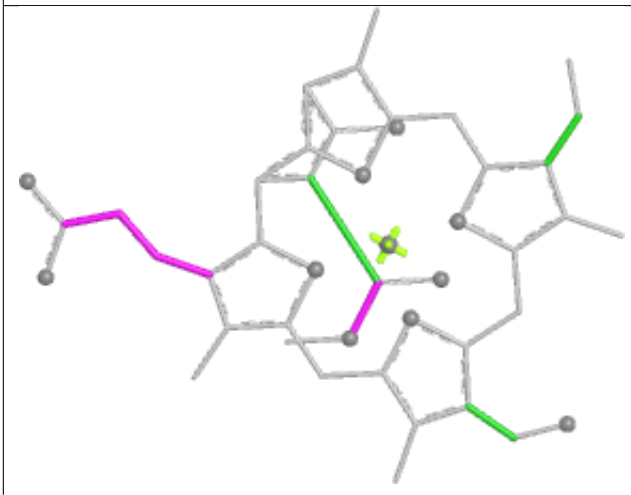
Ligand CL7 A 846



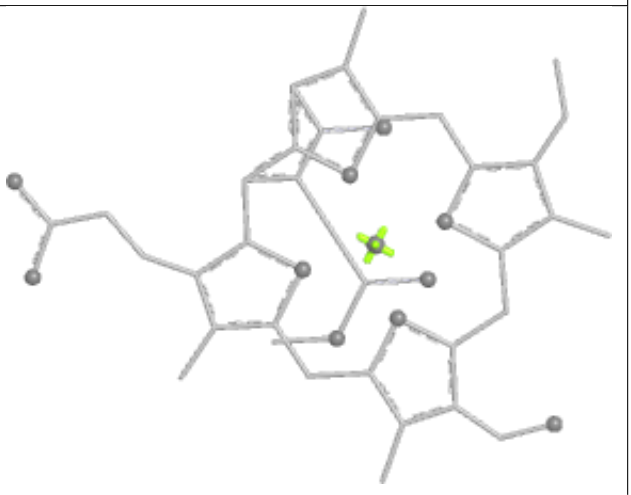
Bond lengths



Bond angles

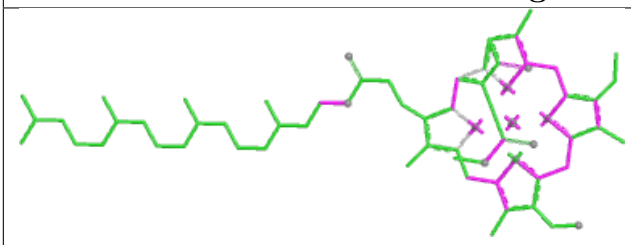


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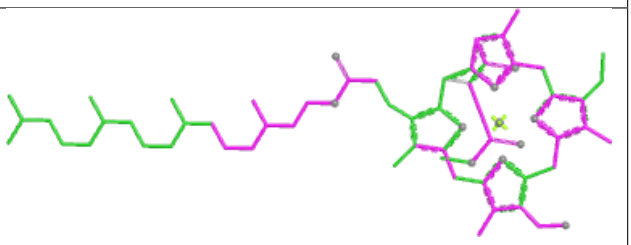


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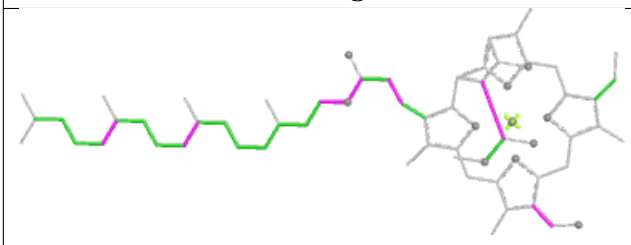
Ligand CL7 B 802



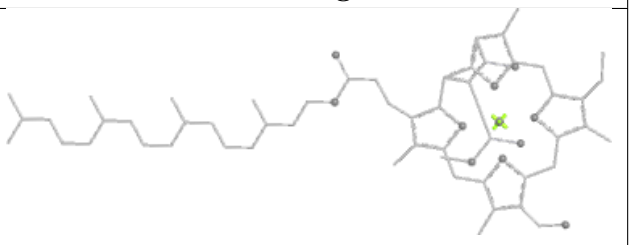
Bond lengths



Bond angles

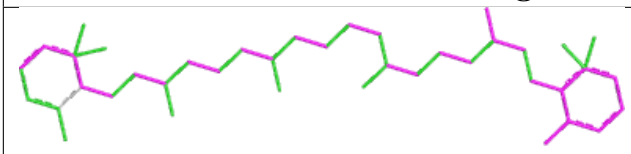


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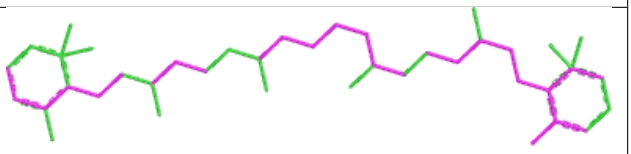


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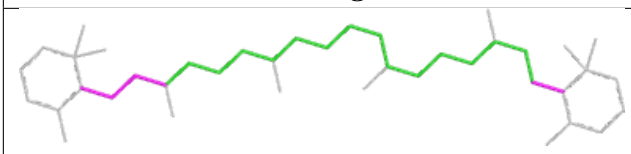
Ligand WVN A 854



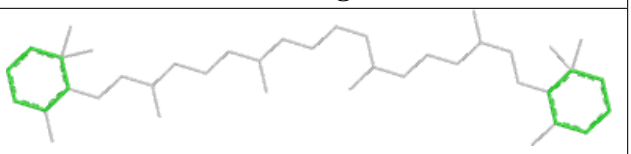
Bond lengths



Bond angles

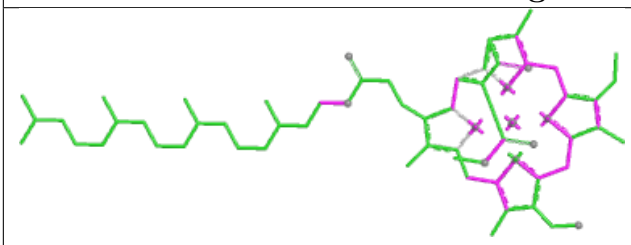


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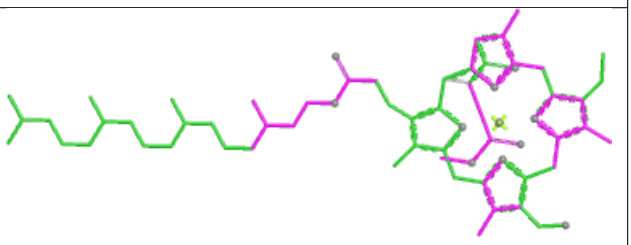


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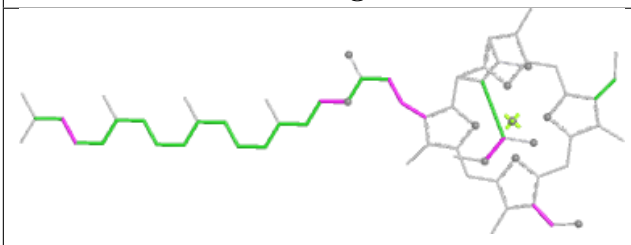
Ligand CL7 A 802



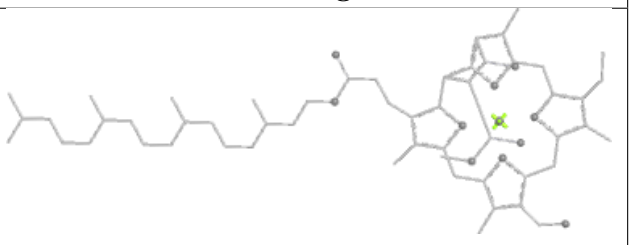
Bond lengths



Bond angles

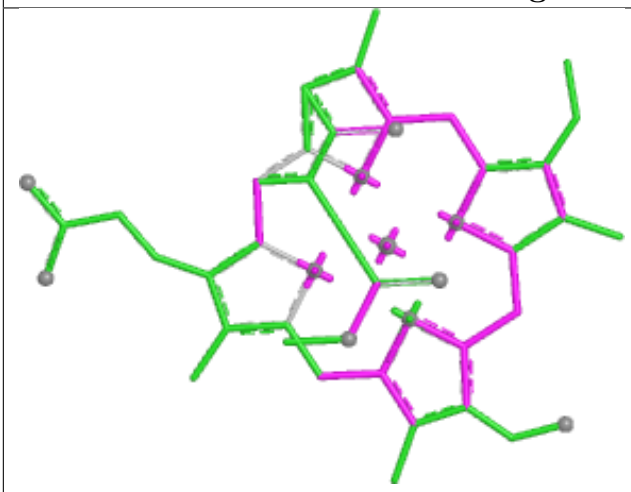


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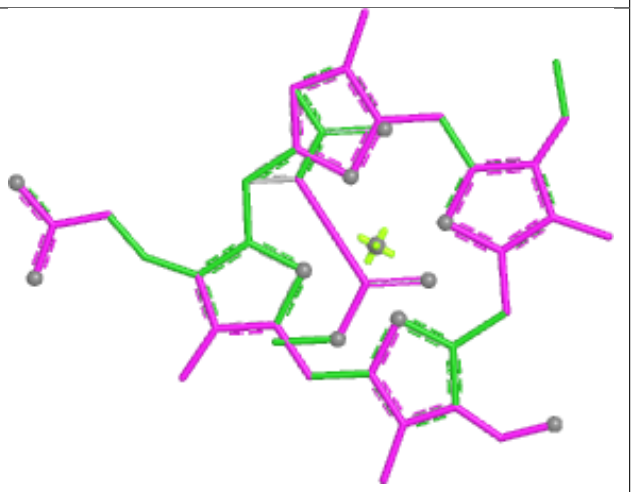


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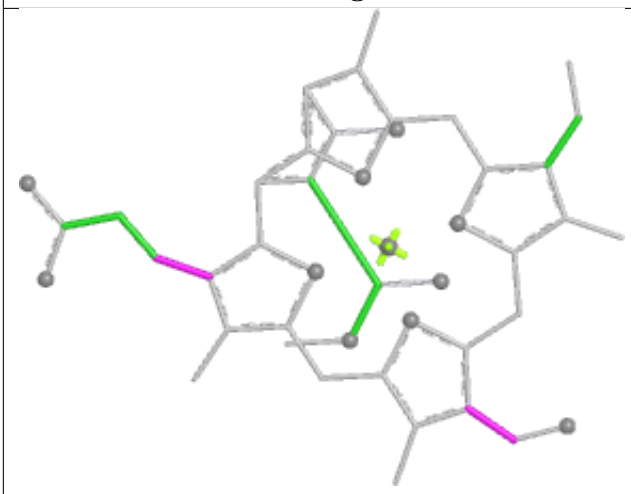
Ligand CL7 B 841



Bond lengths



Bond angles

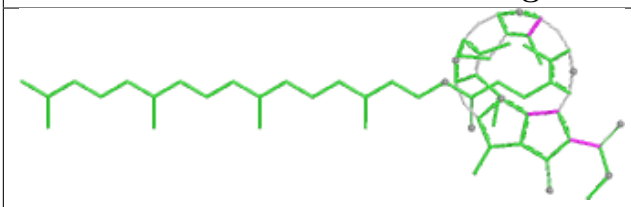


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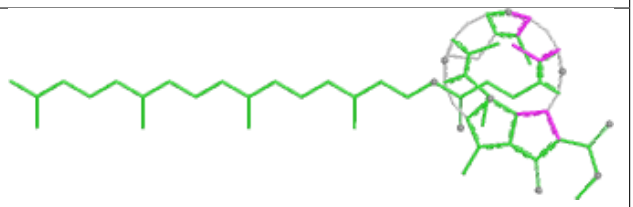


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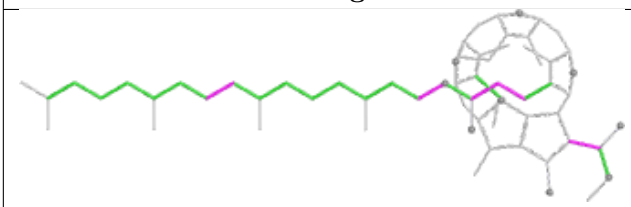
Ligand PHO B 801



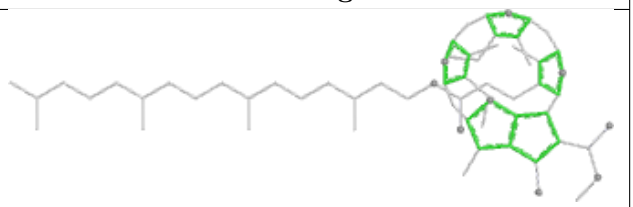
Bond lengths



Bond angles

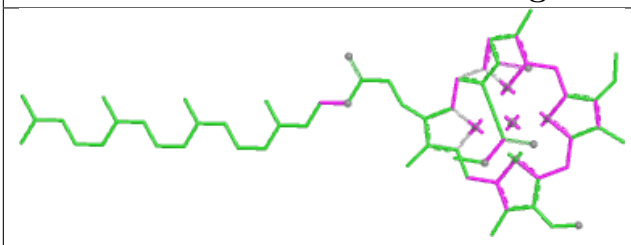


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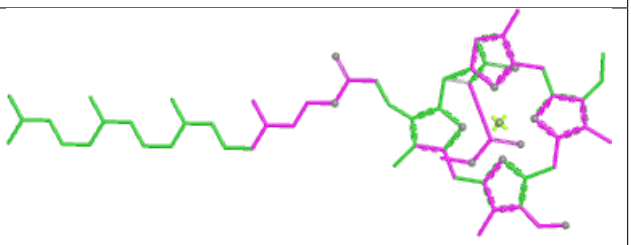


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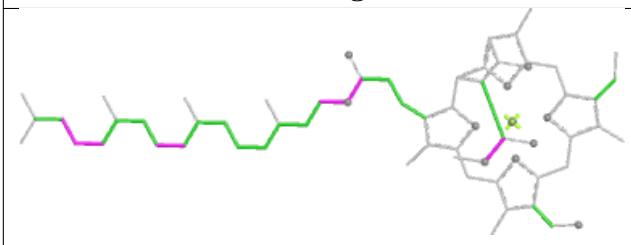
Ligand CL7 B 804



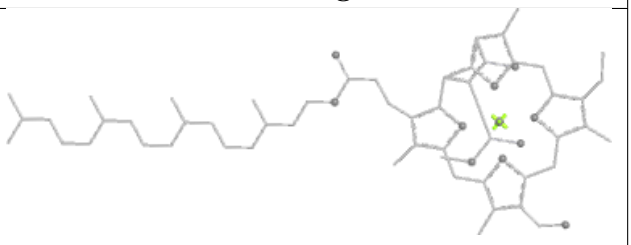
Bond lengths



Bond angles

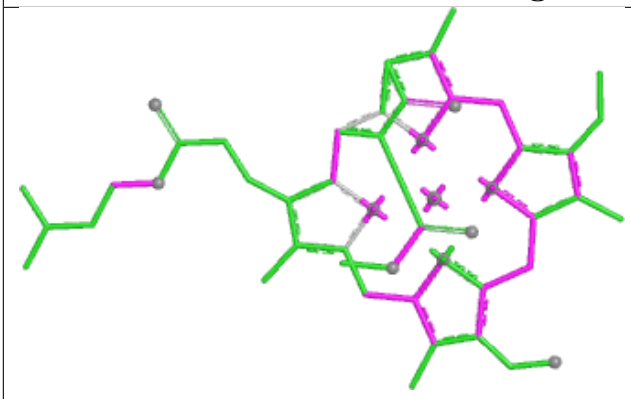


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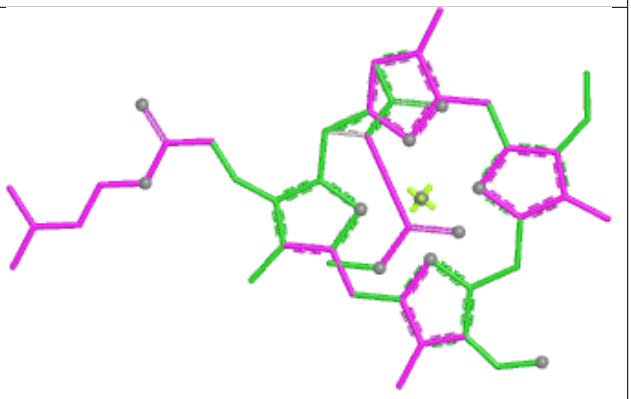


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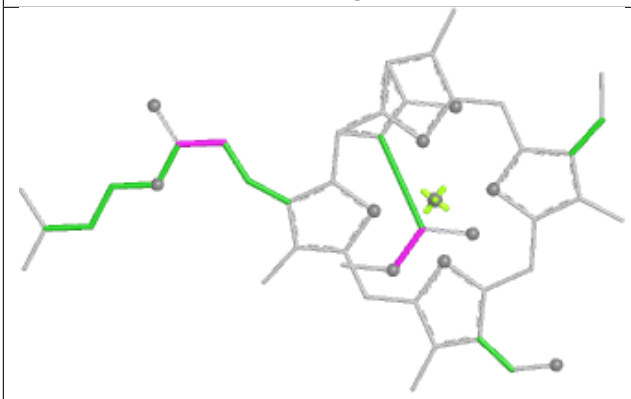
Ligand CL7 B 807



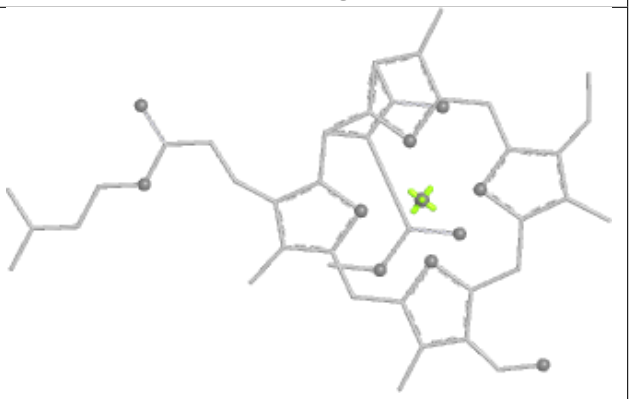
Bond lengths



Bond angles

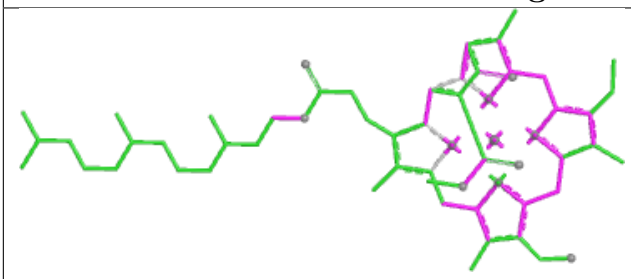


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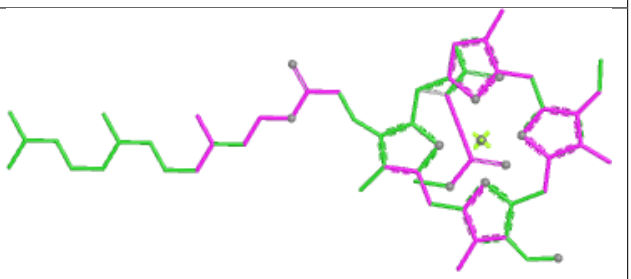


Rings

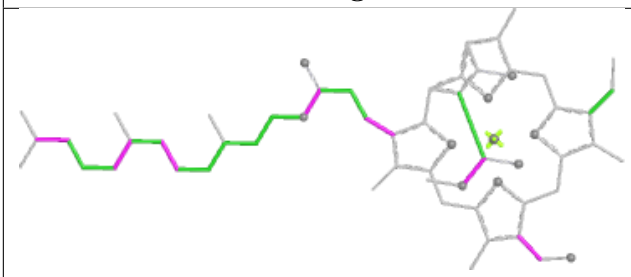
Ligand CL7 A 827



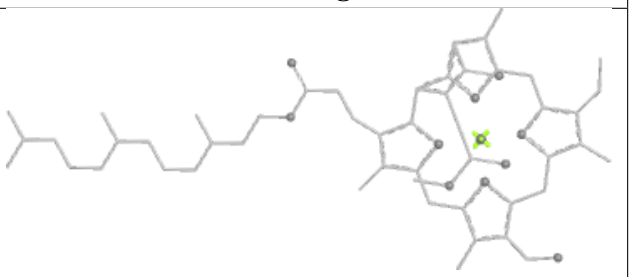
Bond lengths



Bond angles

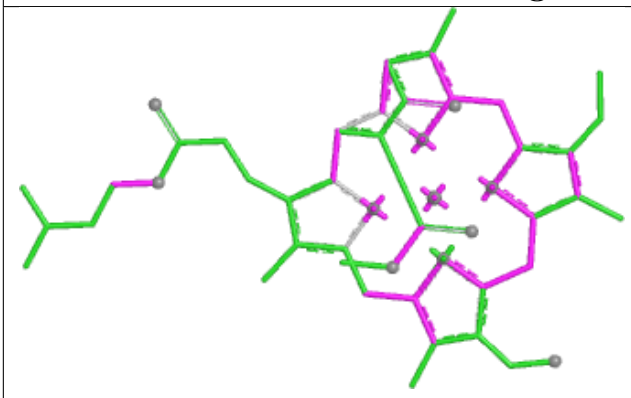


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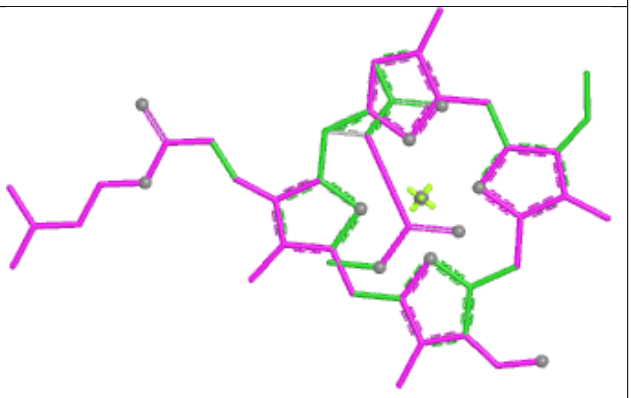


Rings

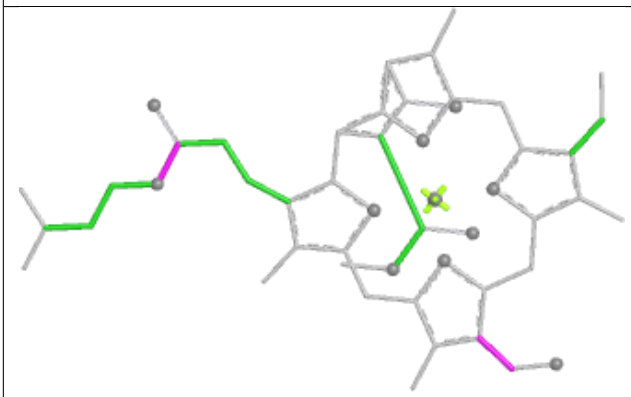
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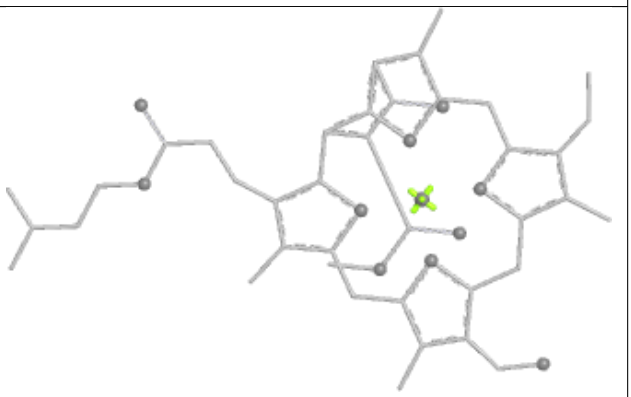
Bond lengths



Bond angles

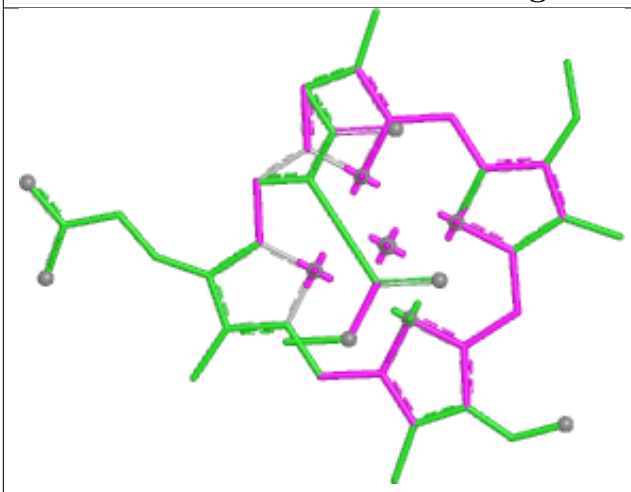


Torsions

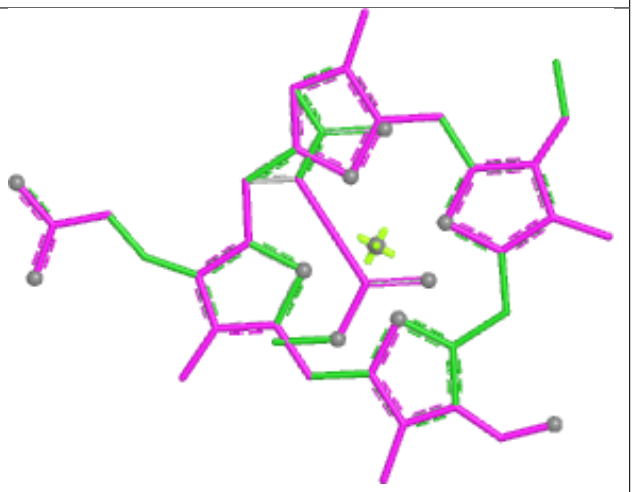


Rings

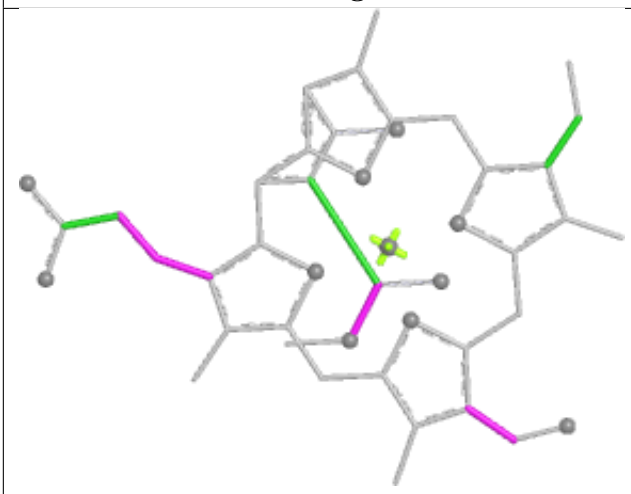
Ligand CL7 B 840



Bond lengths



Bond angles

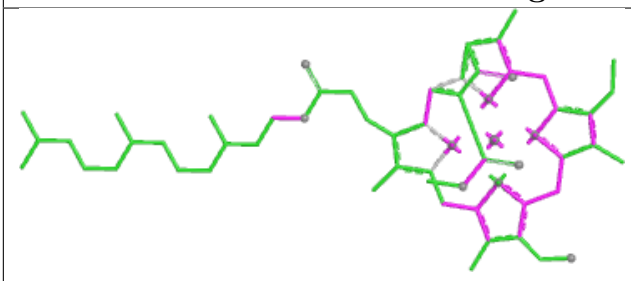


Torsions

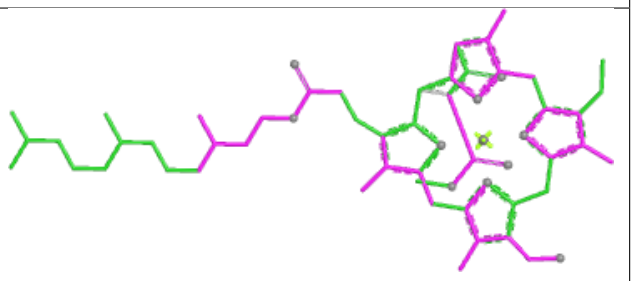


Rings

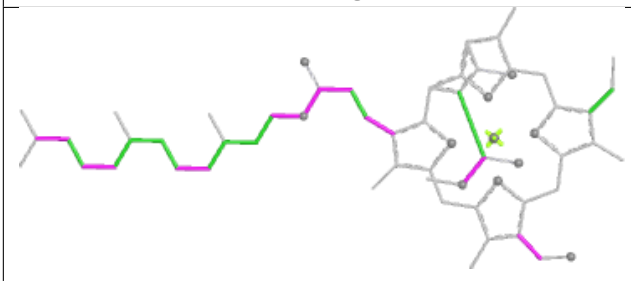
Ligand CL7 A 828



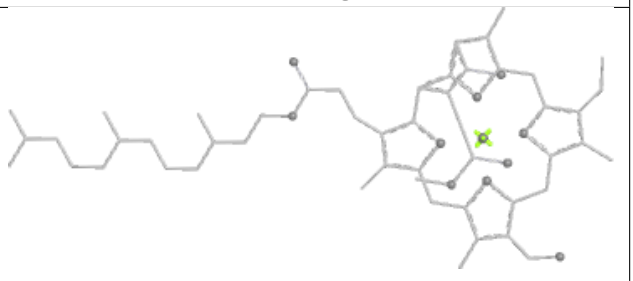
Bond lengths



Bond angles

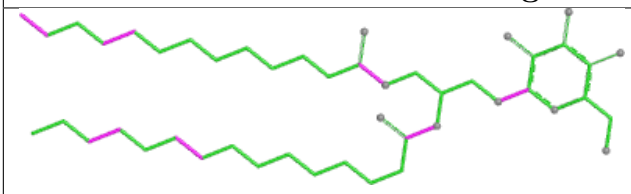


Torsions

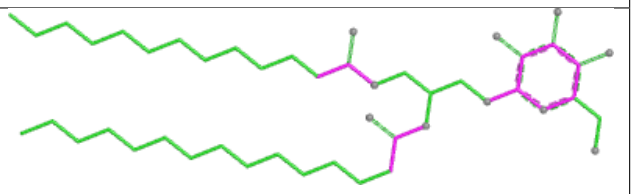


Rings

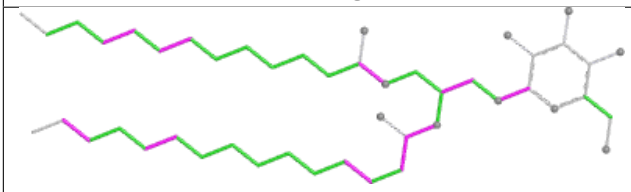
Ligand LMG L 203



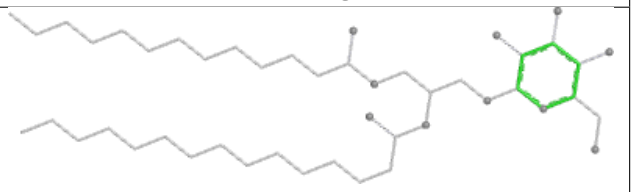
Bond lengths



Bond angles

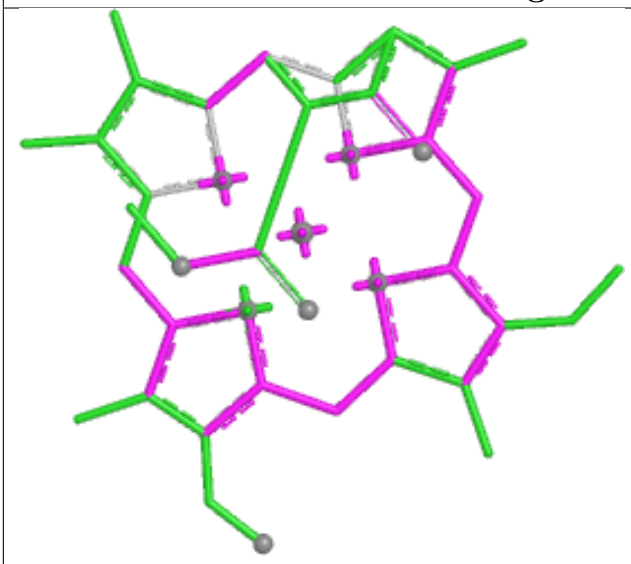


Torsions

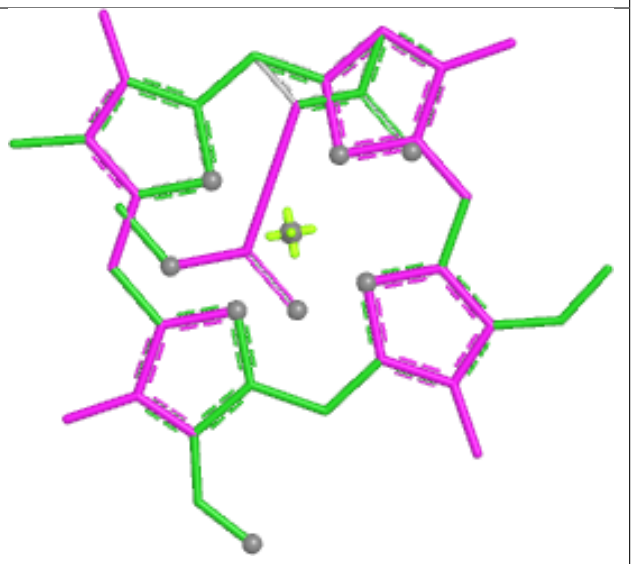


Rings

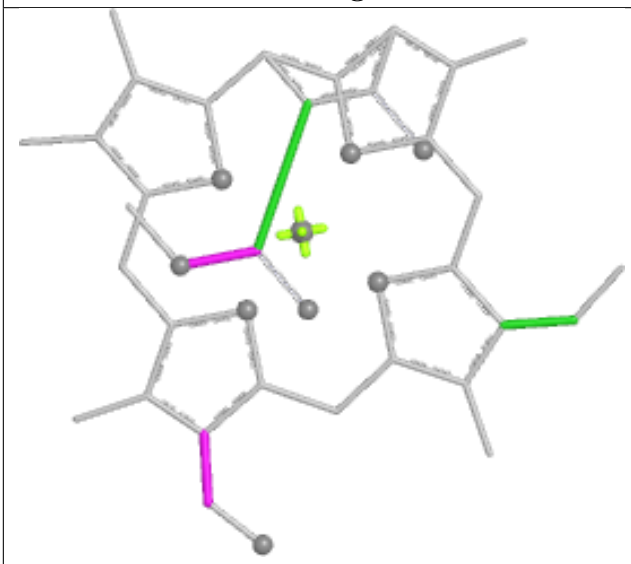
Ligand CL7 K 102



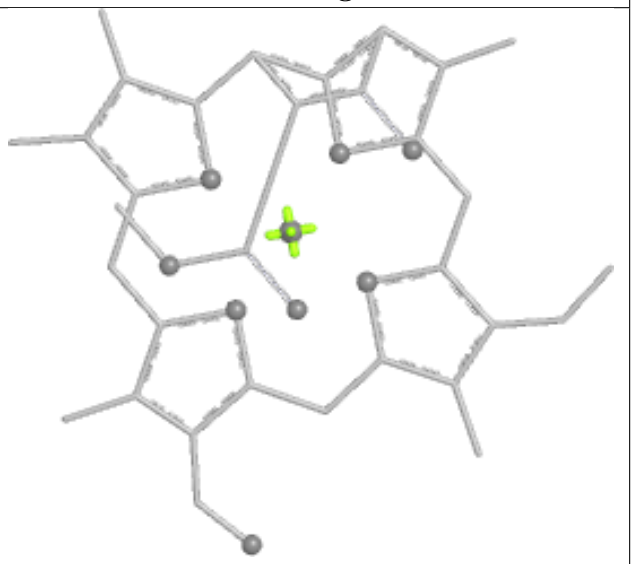
Bond lengths



Bond angles

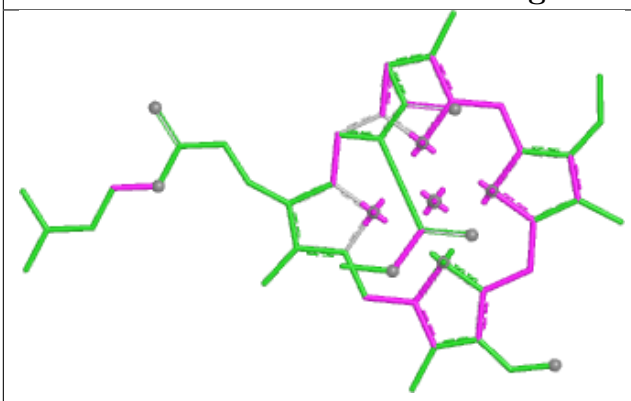


Torsions

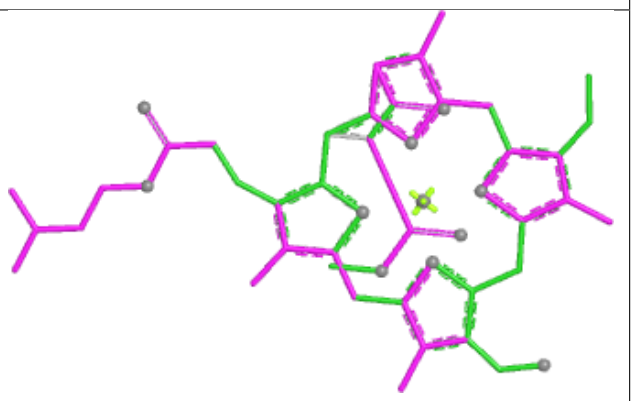


Rings

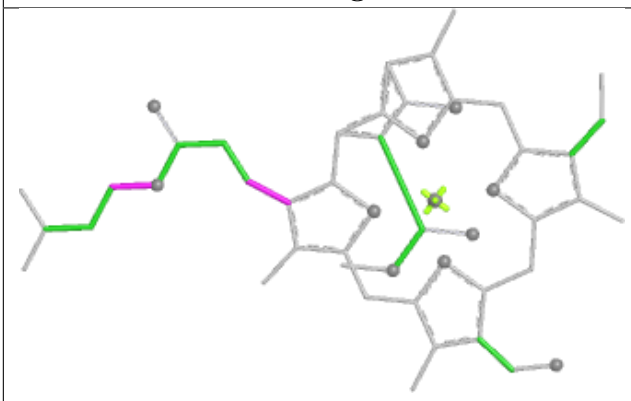
Ligand CL7 A 813



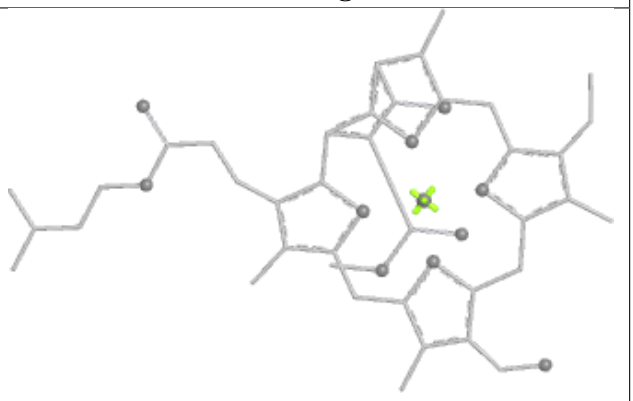
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

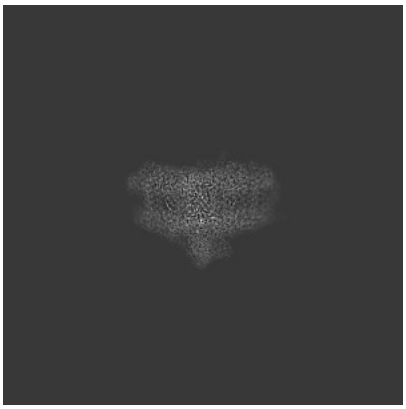
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-77301. These allow visual inspection of the internal detail of the map and identification of artifacts.

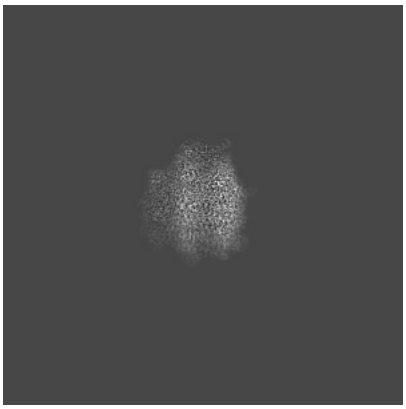
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

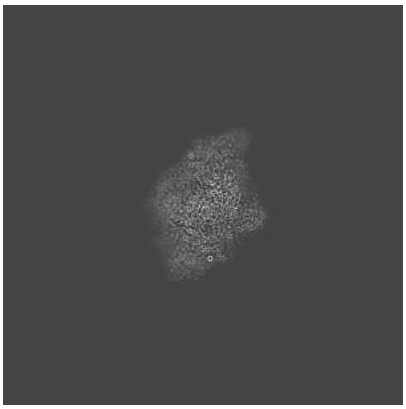
6.1.1 Primary map



X

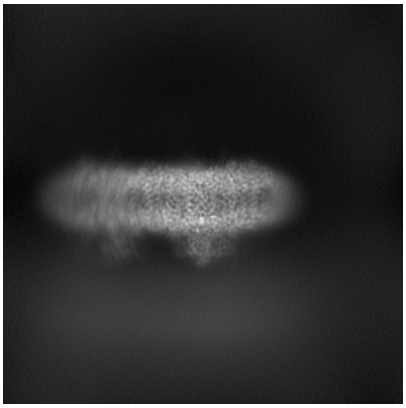


Y

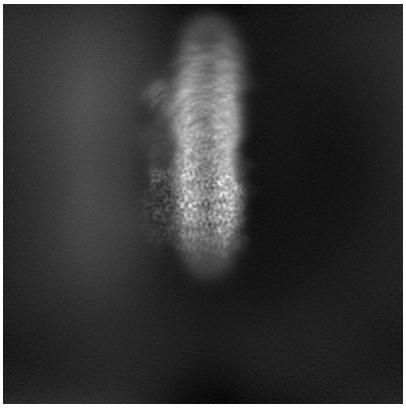


Z

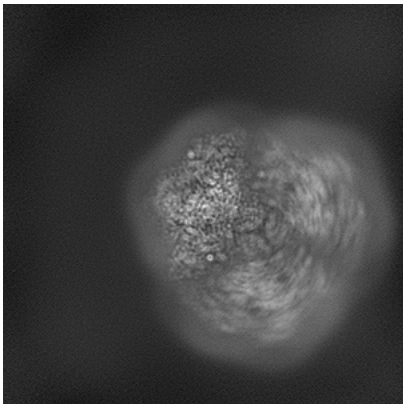
6.1.2 Raw map



X



Y



Z

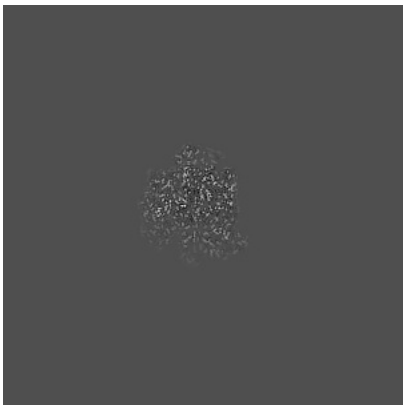
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

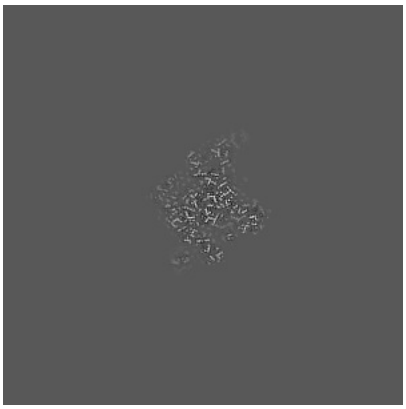
6.2.1 Primary map



X Index: 250

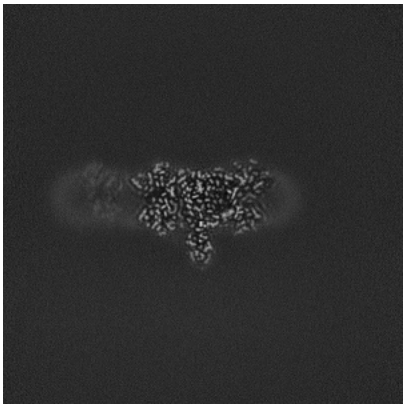


Y Index: 250

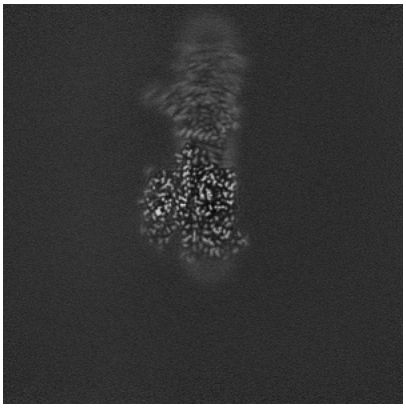


Z Index: 250

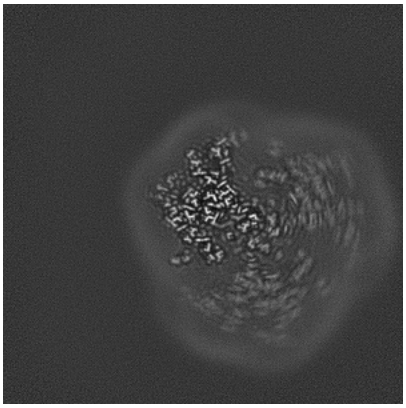
6.2.2 Raw map



X Index: 250



Y Index: 250



Z Index: 250

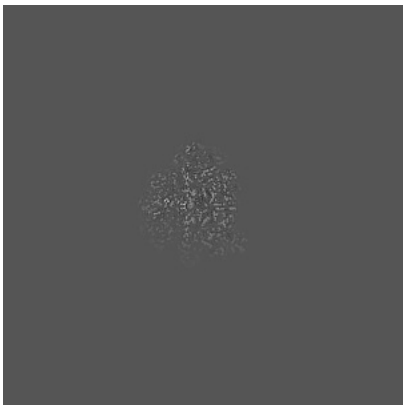
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map



X Index: 257

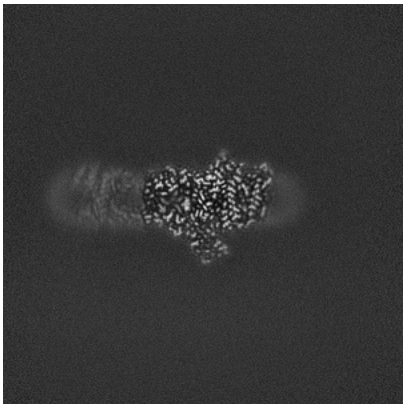


Y Index: 247

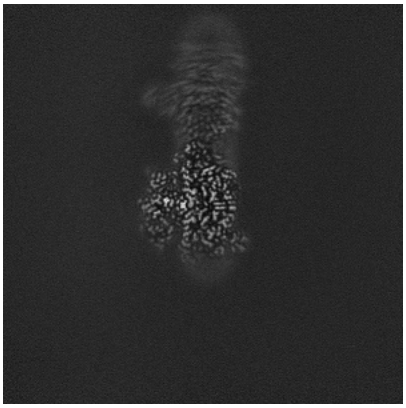


Z Index: 271

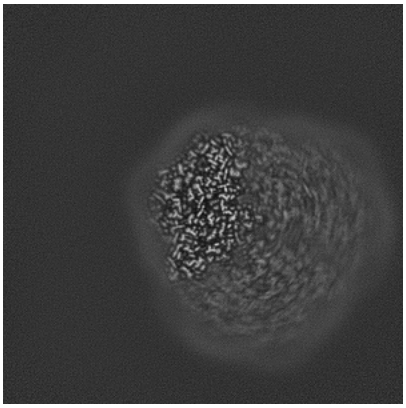
6.3.2 Raw map



X Index: 264



Y Index: 247

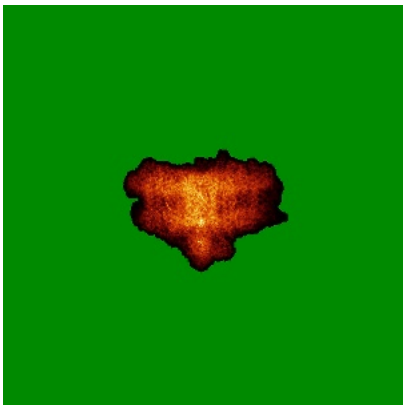


Z Index: 271

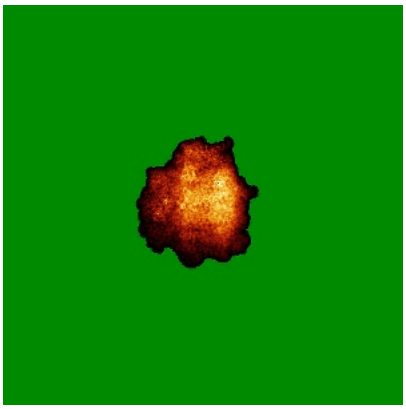
The images above show the largest variance slices of the map in three orthogonal directions.

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

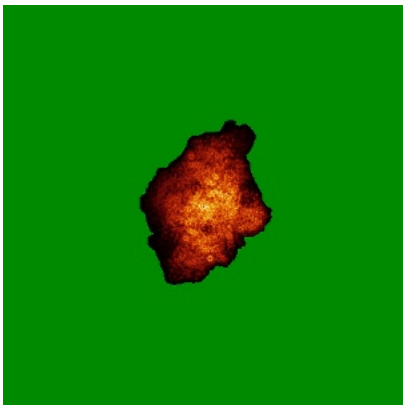
6.4.1 Primary map



X

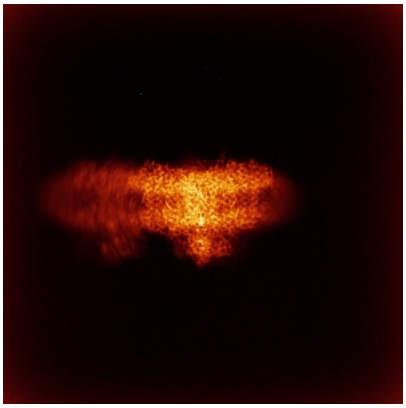


Y

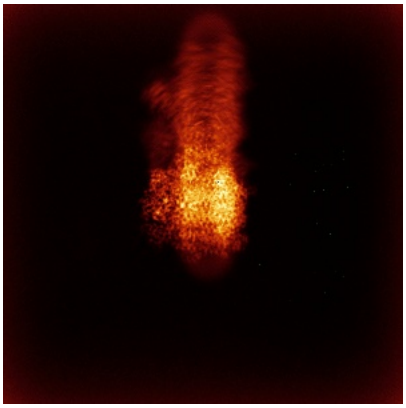


Z

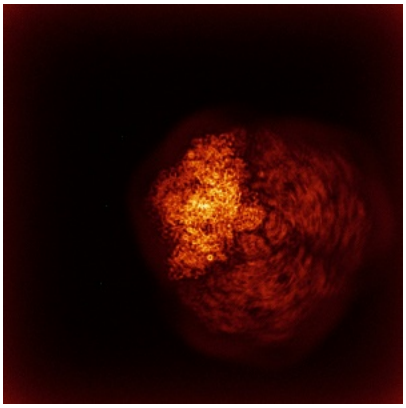
6.4.2 Raw map



X



Y

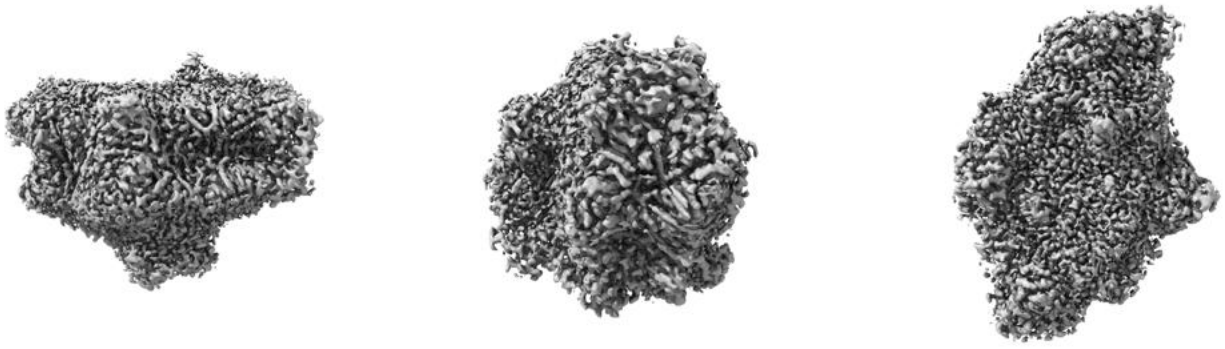


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.043. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

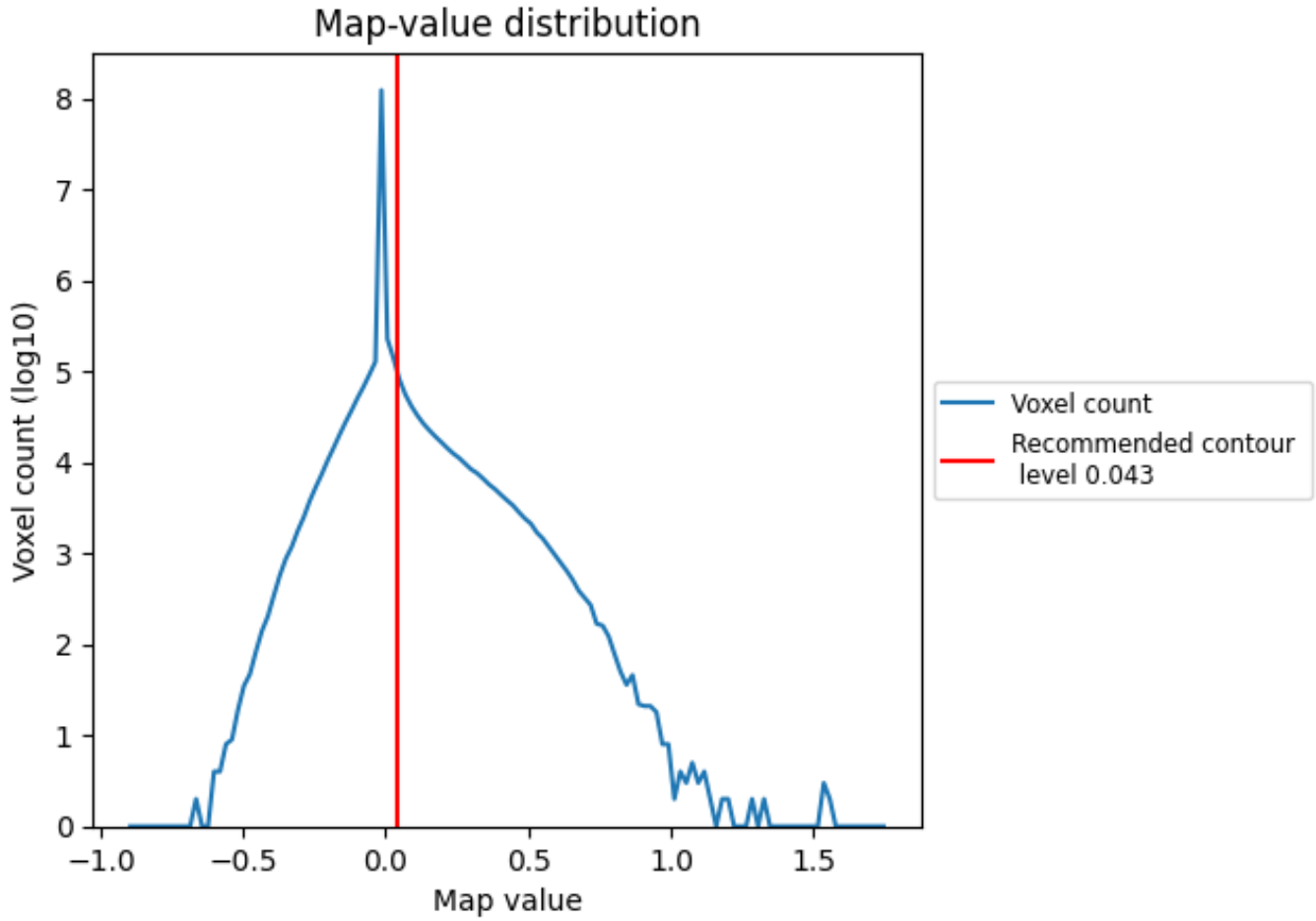
6.6 Mask visualisation (i)

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

7 Map analysis

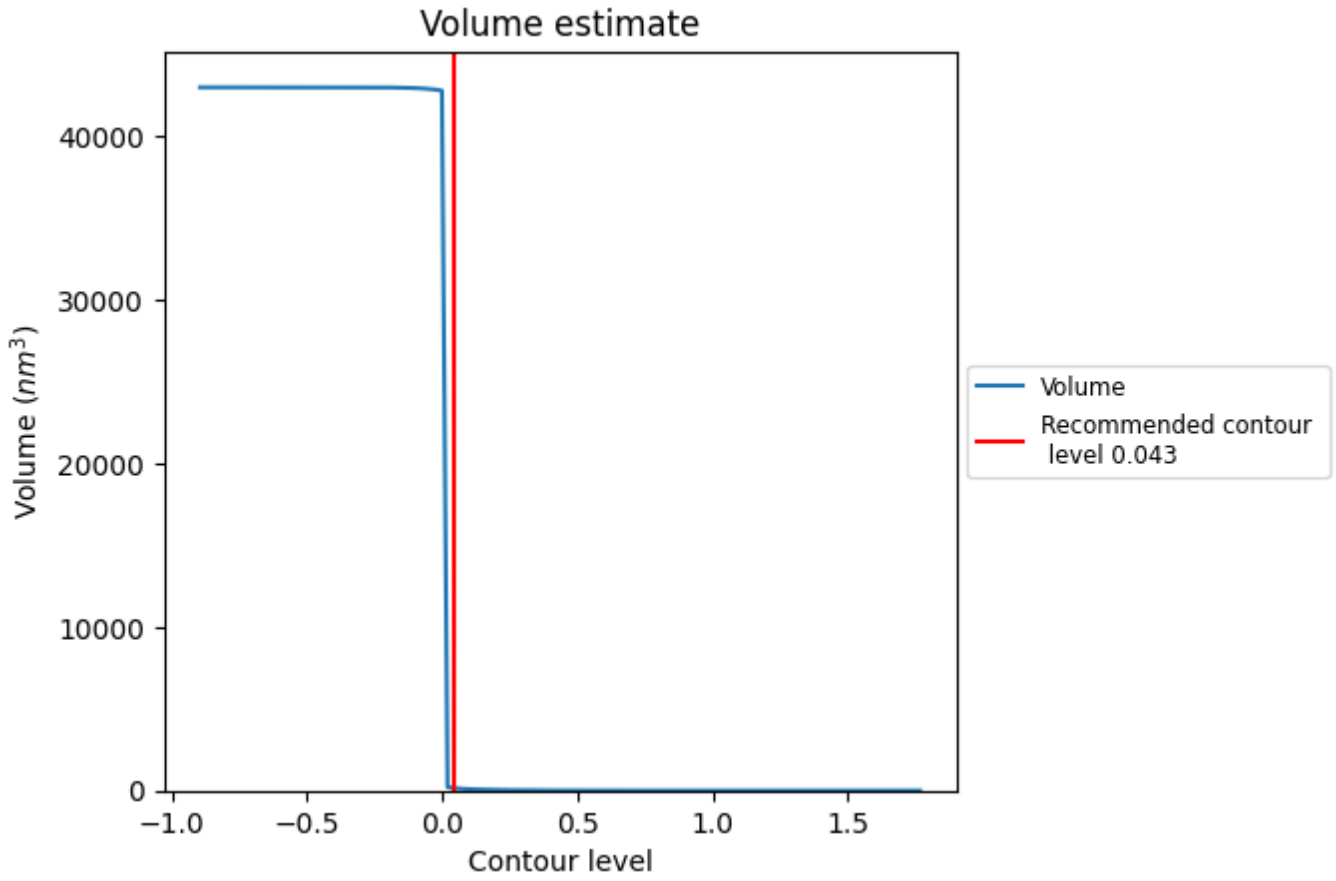
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

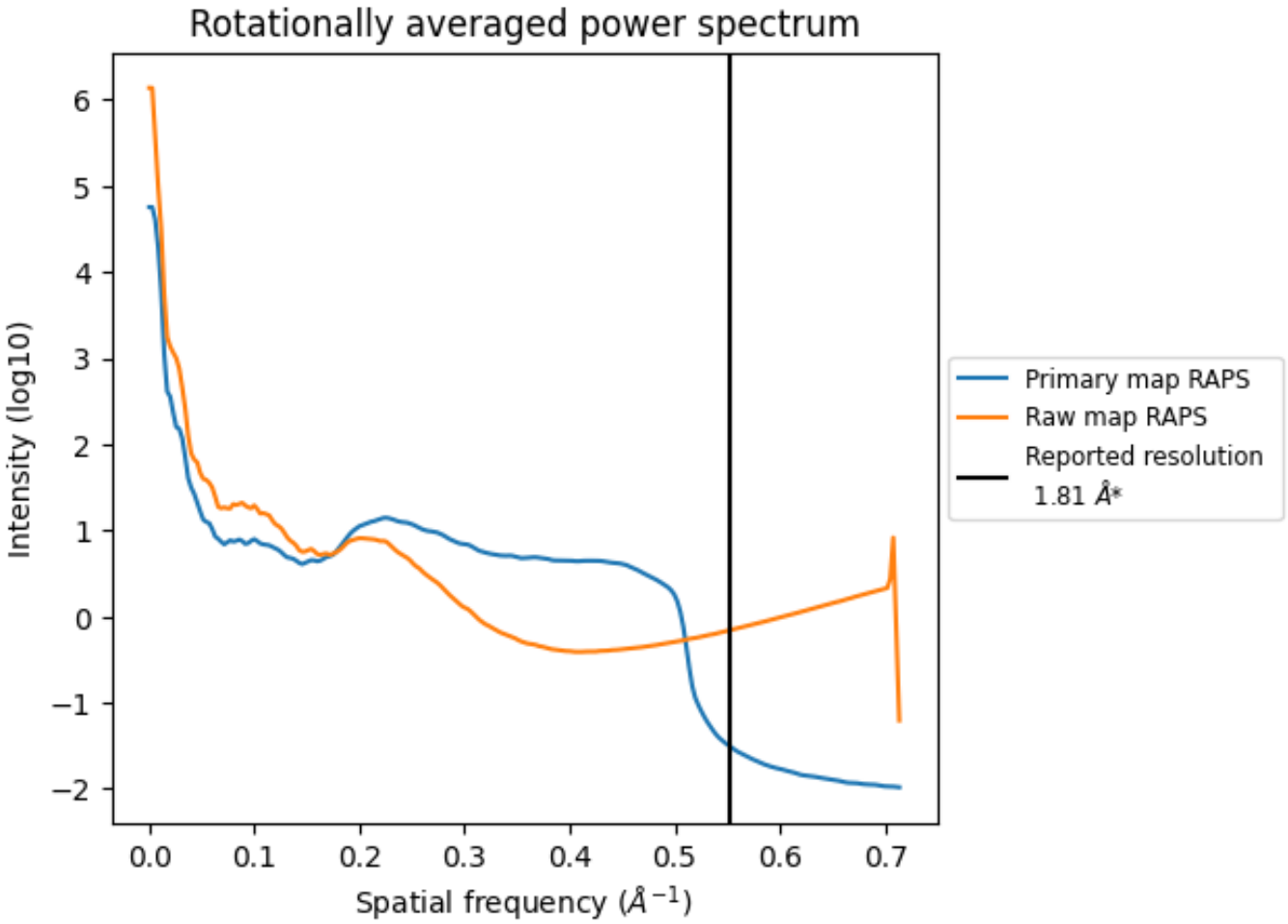
7.2 Volume estimate



The volume at the recommended contour level is 150 nm^3; this corresponds to an approximate mass of 136 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)

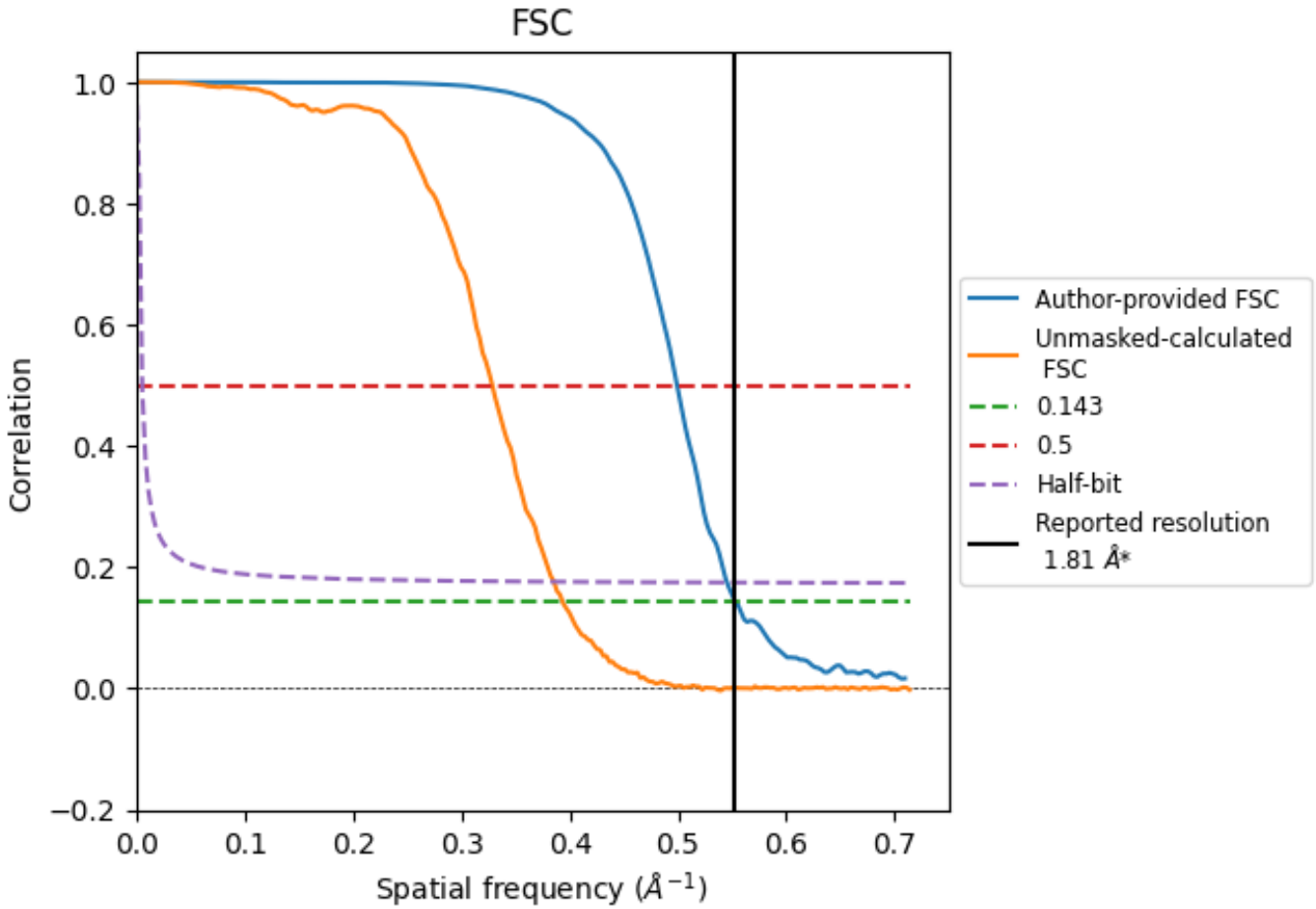


*Reported resolution corresponds to spatial frequency of 0.552 Å^{-1}

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 0.552 Å^{-1}

8.2 Resolution estimates (i)

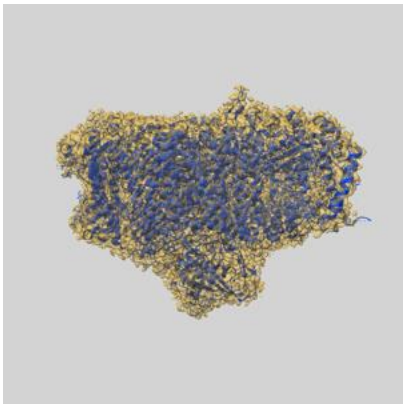
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	1.81	-	-
Author-provided FSC curve	1.81	2.00	1.83
Unmasked-calculated*	2.54	3.04	2.59

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.54 differs from the reported value 1.81 by more than 10 %

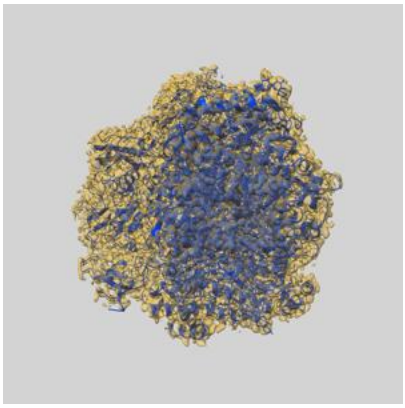
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-77301 and PDB model 35ZQ. Per-residue inclusion information can be found in section 3 on page 20.

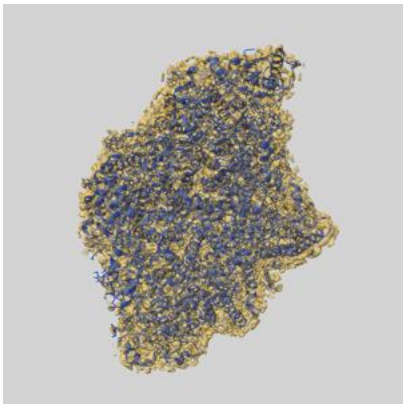
9.1 Map-model overlay



X



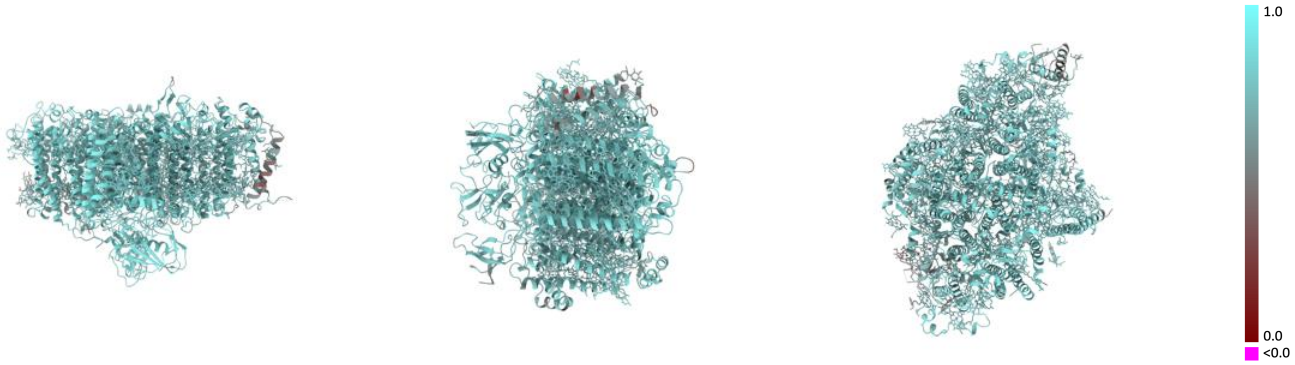
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.043 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.

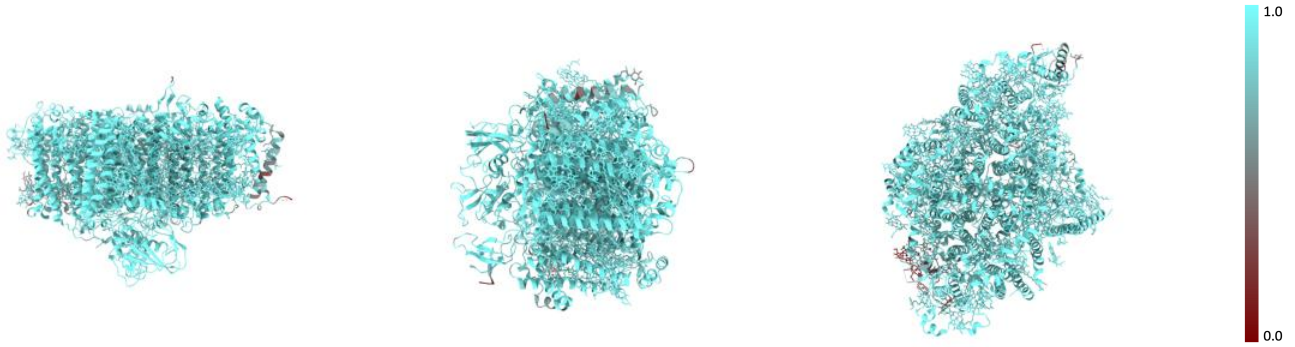
9.2 Q-score mapped to coordinate model (i)



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.

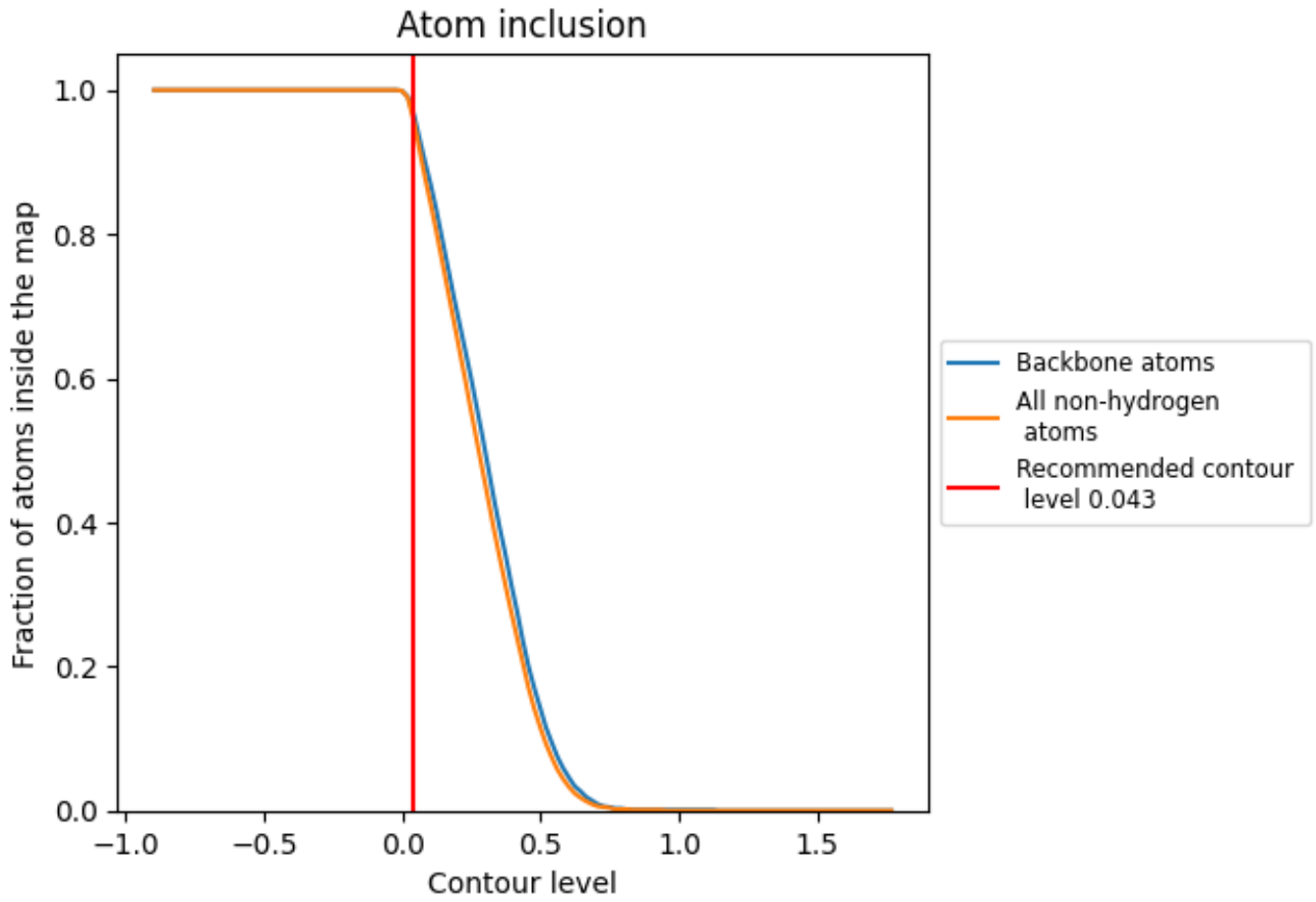
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.043).

9.4 Atom inclusion (i)



At the recommended contour level, 96% of all backbone atoms, 96% 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 (0.043) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9550	0.7610
A	0.9810	0.7830
B	0.9350	0.7560
C	0.9920	0.7990
D	0.9780	0.7700
E	0.9180	0.7240
F	0.9290	0.7100
I	0.9880	0.7800
J	0.9810	0.7590
K	0.7650	0.5780
L	0.9690	0.7680
M	0.9730	0.7690

