Full wwPDB EM Validation Report

Mar 9, 2026 – 06:30 PM UTC

PDB ID	:	8ZOE / pdb_00008zoe
EMDB ID	:	EMD-60290
Title	:	Structure of the canthaxanthin mutant PSI-4VCPI supercomplex in Nannochloropsis oceanica
Authors	:	Shen, L.L.; Li, Z.H.; Shen, J.R.; Wang, W.D.
Deposited on	:	2024-05-28
Resolution	:	3.02 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:

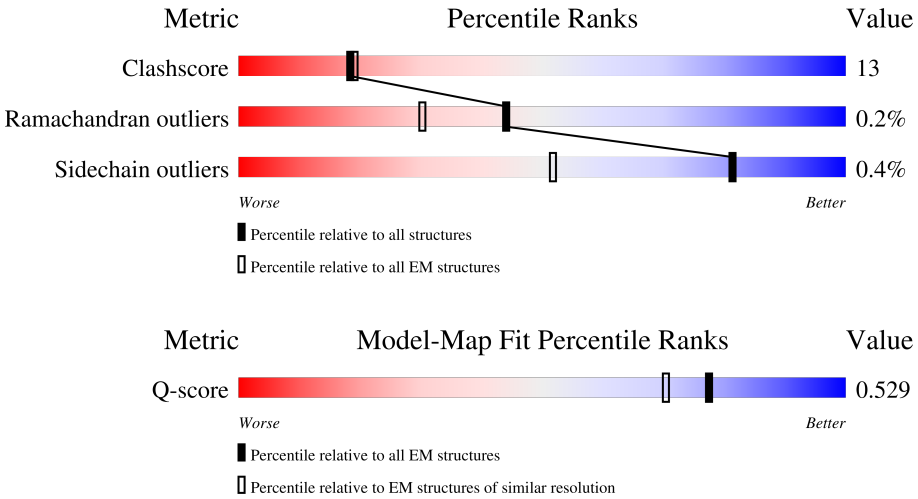
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data 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)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 3.02 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	13913 (2.52 - 3.52)

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	9	232	26% 65% 21% • 13%
2	8	200	29% 62% 19% • 18%
3	7	202	56% 59% 23% 18%
4	1	208	15% 51% 26% 22%

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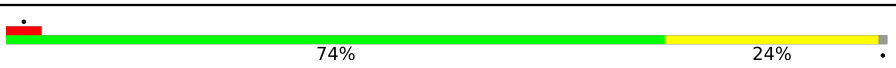
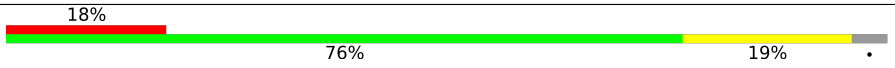
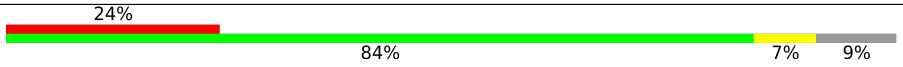
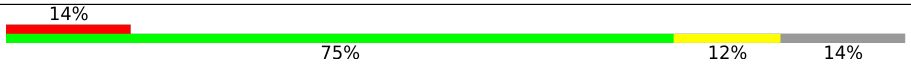
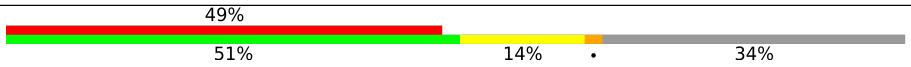
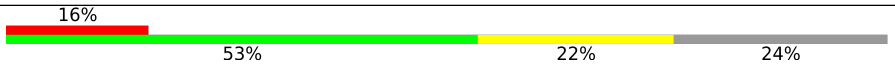
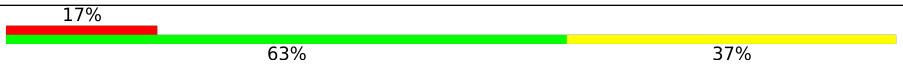
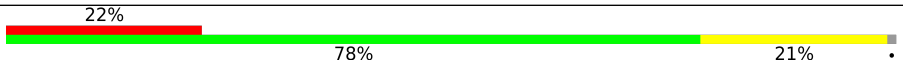
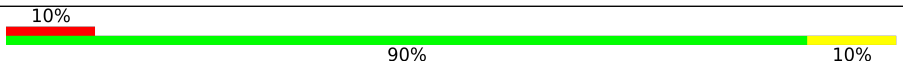
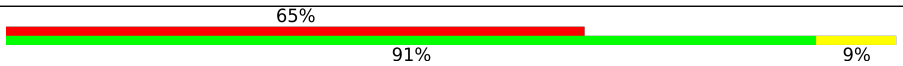
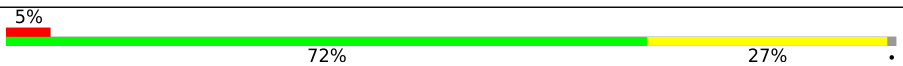
Mol	Chain	Length	Quality of chain
5	a	745	
6	b	737	
7	d	136	
8	e	67	
9	f	185	
10	h	128	
11	i	45	
12	j	41	
13	l	172	
14	m	30	
15	g	55	
16	c	81	

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
22	CLA	1	305	X	-	-	-
22	CLA	1	306	X	-	-	-
22	CLA	1	307	X	-	-	-
22	CLA	1	308	X	-	-	-
22	CLA	1	309	X	-	-	-
22	CLA	1	310	X	-	-	-
22	CLA	1	311	X	-	-	-
22	CLA	1	312	X	-	-	-
22	CLA	1	313	X	-	-	-
22	CLA	1	314	X	-	-	-
22	CLA	7	306	X	-	-	-
22	CLA	7	307	X	-	-	-
22	CLA	7	308	X	-	-	-
22	CLA	7	309	X	-	-	-
22	CLA	7	310	X	-	-	-
22	CLA	7	311	X	-	-	-
22	CLA	7	312	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	7	313	X	-	-	-
22	CLA	7	314	X	-	-	-
22	CLA	7	315	X	-	-	-
22	CLA	7	316	X	-	-	-
22	CLA	7	317	X	-	-	-
22	CLA	8	305	X	-	-	-
22	CLA	8	306	X	-	-	-
22	CLA	8	307	X	-	-	-
22	CLA	8	308	X	-	-	-
22	CLA	8	309	X	-	-	-
22	CLA	8	310	X	-	-	-
22	CLA	8	311	X	-	-	-
22	CLA	8	312	X	-	-	-
22	CLA	8	313	X	-	-	-
22	CLA	8	314	X	-	-	-
22	CLA	9	308	X	-	-	-
22	CLA	9	309	X	-	-	-
22	CLA	9	310	X	-	-	-
22	CLA	9	311	X	-	-	-
22	CLA	9	312	X	-	-	-
22	CLA	9	313	X	-	-	-
22	CLA	9	314	X	-	-	-
22	CLA	9	315	X	-	-	-
22	CLA	9	316	X	-	-	-
22	CLA	9	318	X	-	-	-
22	CLA	a	801	X	-	-	-
22	CLA	a	802	X	-	-	-
22	CLA	a	803	X	-	-	-
22	CLA	a	804	X	-	-	-
22	CLA	a	805	X	-	-	-
22	CLA	a	806	X	-	-	-
22	CLA	a	807	X	-	-	-
22	CLA	a	808	X	-	-	-
22	CLA	a	809	X	-	-	-
22	CLA	a	810	X	-	-	-
22	CLA	a	811	X	-	-	-
22	CLA	a	812	X	-	-	-
22	CLA	a	813	X	-	-	-
22	CLA	a	814	X	-	-	-
22	CLA	a	815	X	-	-	-
22	CLA	a	816	X	-	-	-
22	CLA	a	817	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	a	818	X	-	-	-
22	CLA	a	819	X	-	-	-
22	CLA	a	820	X	-	-	-
22	CLA	a	821	X	-	-	-
22	CLA	a	822	X	-	-	-
22	CLA	a	823	X	-	-	-
22	CLA	a	824	X	-	-	-
22	CLA	a	825	X	-	-	-
22	CLA	a	826	X	-	-	-
22	CLA	a	827	X	-	-	-
22	CLA	a	828	X	-	-	-
22	CLA	a	829	X	-	-	-
22	CLA	a	830	X	-	-	-
22	CLA	a	831	X	-	-	-
22	CLA	a	832	X	-	-	-
22	CLA	a	833	X	-	-	-
22	CLA	a	834	X	-	-	-
22	CLA	a	835	X	-	-	-
22	CLA	a	836	X	-	-	-
22	CLA	a	837	X	-	-	-
22	CLA	a	838	X	-	-	-
22	CLA	a	839	X	-	-	-
22	CLA	a	840	X	-	-	-
22	CLA	a	841	X	-	-	-
22	CLA	a	842	X	-	-	-
22	CLA	a	844	X	-	-	-
22	CLA	a	854	X	-	-	-
22	CLA	b	801	X	-	-	-
22	CLA	b	802	X	-	-	-
22	CLA	b	803	X	-	-	-
22	CLA	b	804	X	-	-	-
22	CLA	b	805	X	-	-	-
22	CLA	b	806	X	-	-	-
22	CLA	b	807	X	-	-	-
22	CLA	b	808	X	-	-	-
22	CLA	b	809	X	-	-	-
22	CLA	b	810	X	-	-	-
22	CLA	b	811	X	-	-	-
22	CLA	b	812	X	-	-	-
22	CLA	b	813	X	-	-	-
22	CLA	b	814	X	-	-	-
22	CLA	b	815	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	b	816	X	-	-	-
22	CLA	b	817	X	-	-	-
22	CLA	b	818	X	-	-	-
22	CLA	b	819	X	-	-	-
22	CLA	b	820	X	-	-	-
22	CLA	b	821	X	-	-	-
22	CLA	b	822	X	-	-	-
22	CLA	b	823	X	-	-	-
22	CLA	b	824	X	-	-	-
22	CLA	b	825	X	-	-	-
22	CLA	b	826	X	-	-	-
22	CLA	b	827	X	-	-	-
22	CLA	b	828	X	-	-	-
22	CLA	b	829	X	-	-	-
22	CLA	b	830	X	-	-	-
22	CLA	b	831	X	-	-	-
22	CLA	b	832	X	-	-	-
22	CLA	b	833	X	-	-	-
22	CLA	b	834	X	-	-	-
22	CLA	b	835	X	-	-	-
22	CLA	b	836	X	-	-	-
22	CLA	b	837	X	-	-	-
22	CLA	b	838	X	-	-	-
22	CLA	b	839	X	-	-	-
22	CLA	b	840	X	-	-	-
22	CLA	f	802	X	-	-	-
22	CLA	f	803	X	-	-	-
22	CLA	h	203	X	-	-	-
22	CLA	h	205	X	-	-	-
22	CLA	j	102	X	-	-	-
22	CLA	j	103	X	-	-	-
22	CLA	l	202	X	-	-	-
22	CLA	l	203	X	-	-	-
22	CLA	l	204	X	-	-	-
27	SF4	c	102	-	-	X	-

2 Entry composition

There are 28 unique types of molecules in this entry. The entry contains 33183 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 VCPI-9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	9	201	1466	936	256	269	5	0	0

- Molecule 2 is a protein called VCPI-8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	8	164	1258	822	203	227	6	0	0

- Molecule 3 is a protein called VCPI-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	7	166	1220	791	202	222	5	0	0

- Molecule 4 is a protein called VCPI-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	1	162	1262	816	209	234	3	0	0

- Molecule 5 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	a	739	5827	3828	982	1000	17	0	0

- Molecule 6 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	b	735	5865	3874	985	989	17	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	d	130	Total	C	N	O	S	0	0
			1014	652	175	184	3		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
8	e	61	Total	C	N	O	0	0
			494	314	86	94		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
9	f	160	Total	C	N	O	S	0	0
			1266	815	213	235	3		

- Molecule 10 is a protein called PsaR.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	h	85	Total	C	N	O	S	0	0
			646	427	100	117	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
11	i	34	Total	C	N	O	S	0	0
			271	189	36	45	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
12	j	41	Total	C	N	O	S	0	0
			339	233	48	57	1		

- Molecule 13 is a protein called PSI subunit V.

Mol	Chain	Residues	Atoms				AltConf	Trace
13	l	171	Total	C	N	O	0	0
			1283	848	203	232		

- Molecule 14 is a protein called PsaM.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	m	30	Total	C	N	O	0	0
			210	137	35	38		

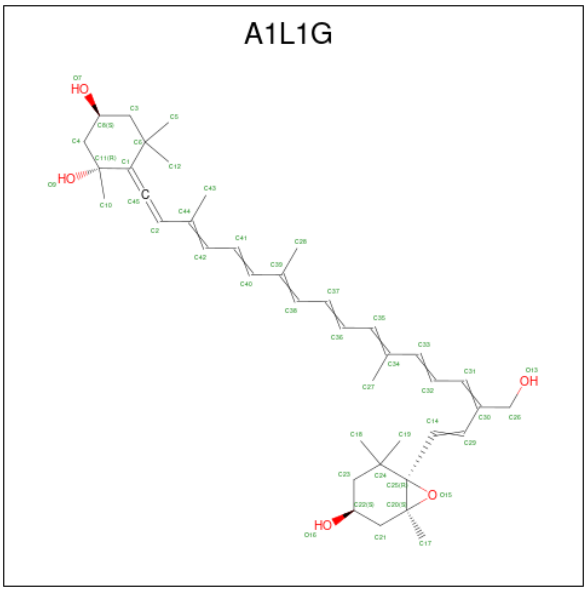
- Molecule 15 is a protein called PsaS.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	g	55	Total	C	N	O	0	0
			275	165	55	55		

- Molecule 16 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	c	80	Total	C	N	O	S	0	0
			596	366	103	117	10		

- Molecule 17 is (1 {R},3 {S})-6-[(3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {Z},17 {E})-16-(hydroxymethyl)-3,7,12-trimethyl-18-[(1 {S},4 {S},6 {R})-2,2,6-trimethyl-4-oxidanyl-7-oxabicyclo[4.1.0]heptan-1-yl]octadeca-1,3,5,7,9,11,13,15,17-nonaenylidene]-1,5,5-trimethyl-cyclohexane-1,3-diol (CCD ID: A1L1G) (formula: $C_{40}H_{56}O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
17	9	1	Total	C	O	0
			45	40	5	
17	9	1	Total	C	O	0
			45	40	5	

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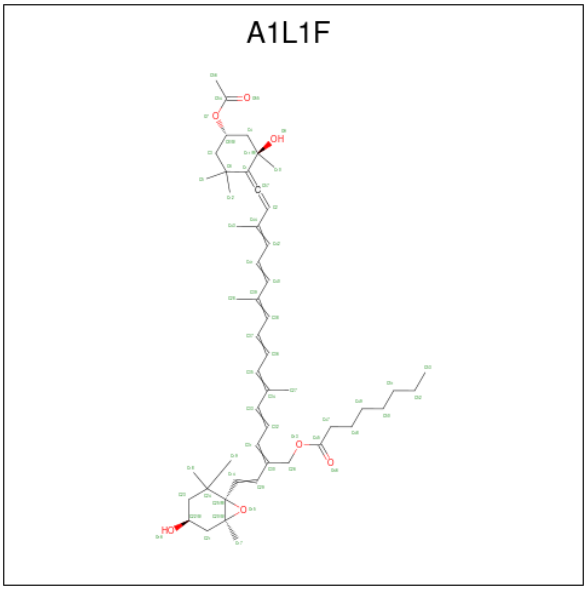
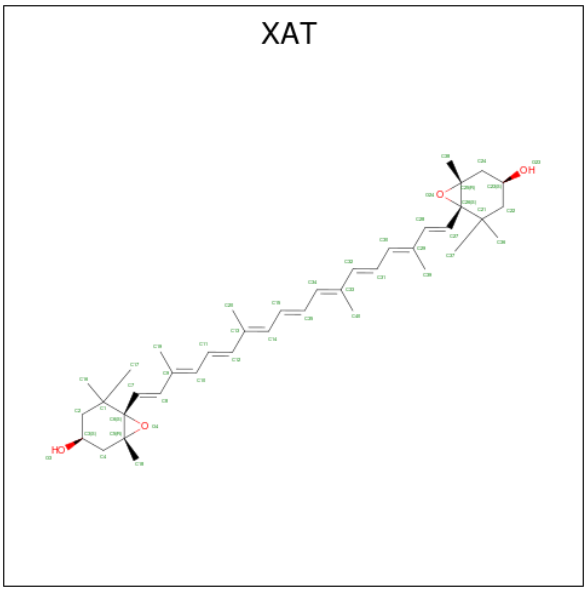
Mol	Chain	Residues	Atoms	AltConf
17	7	1	Total C O 45 40 5	0
17	1	1	Total C O 45 40 5	0

- Molecule 18 is [(2 {Z},4 {E},6 {E},8 {E},10 {E},12 {E},14 {E})-17-[(4 {S},6 {R})-4-acetyloxy-2,2,6-trimethyl-6-oxidanyl-cyclohexylidene]-6,11,15-trimethyl-2-[({E})-2-[(1 {S},4 {S},6 {R})-2,2,6-trimethyl-4-oxidanyl-7-oxabicyclo[4.1.0]heptan-1-yl]ethenyl]heptadeca-2,4,6,8,10,12,14,16-octaenyl] octanoate (CCD ID: A1L1F) (formula: $C_{50}H_{72}O_7$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
18	9	1	Total C O 57 50 7	0
18	8	1	Total C O 57 50 7	0
18	1	1	Total C O 57 50 7	0
18	h	1	Total C O 57 50 7	0

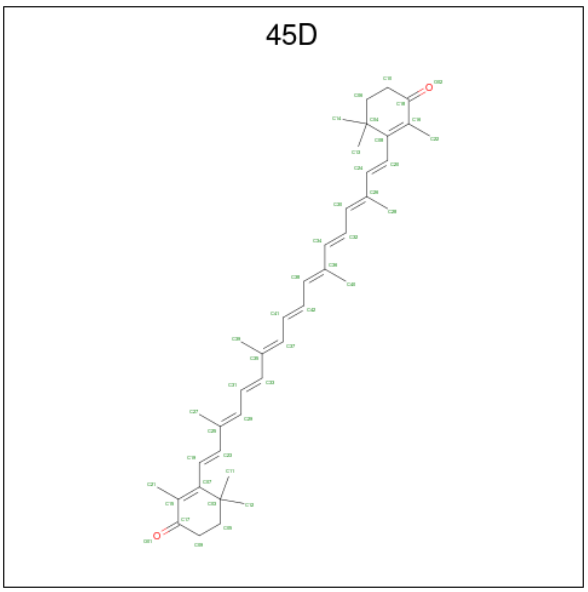
- Molecule 19 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'- TETRAHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (CCD ID: XAT) (formula: $C_{40}H_{56}O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
19	9	1	Total C O 44 40 4	0
19	9	1	Total C O 44 40 4	0
19	8	1	Total C O 44 40 4	0
19	8	1	Total C O 44 40 4	0
19	8	1	Total C O 44 40 4	0
19	7	1	Total C O 44 40 4	0
19	7	1	Total C O 44 40 4	0
19	7	1	Total C O 44 40 4	0
19	7	1	Total C O 44 40 4	0
19	1	1	Total C O 44 40 4	0
19	1	1	Total C O 44 40 4	0
19	a	1	Total C O 44 40 4	0
19	j	1	Total C O 44 40 4	0

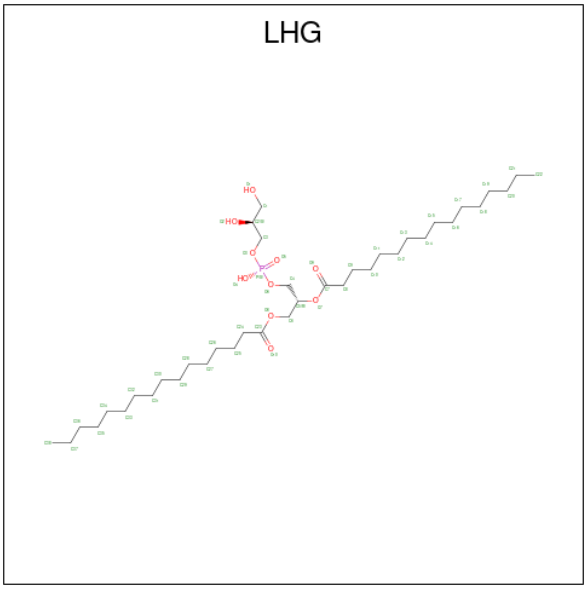
- Molecule 20 is beta,beta-carotene-4,4'-dione (CCD ID: 45D) (formula: $C_{40}H_{52}O_2$) (labeled

as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
20	9	1	Total	C	O	0
			42	40	2	

- Molecule 21 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
21	9	1	Total	C	O	P	0
			36	25	10	1	

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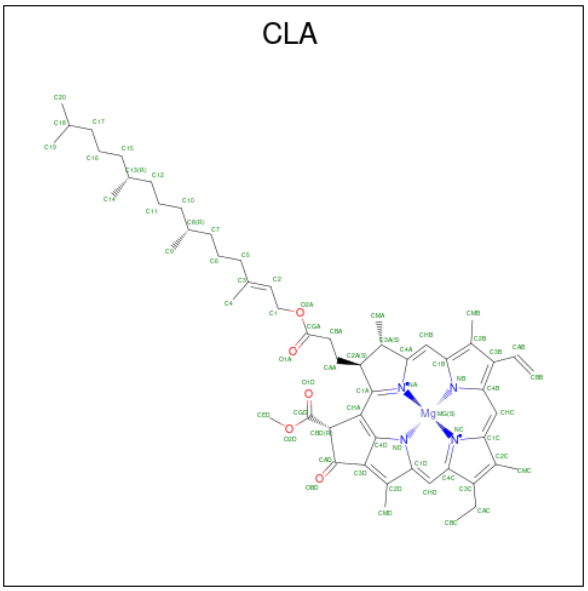
Mol	Chain	Residues	Atoms				AltConf
21	9	1	Total 46	C 35	O 10	P 1	0
21	a	1	Total 48	C 37	O 10	P 1	0
21	a	1	Total 27	C 16	O 10	P 1	0
21	b	1	Total 31	C 20	O 10	P 1	0

- Molecule 22 is CHLOROPHYLL A (CCD ID: CLA) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
22	9	1	Total 65	C 55	Mg 1	N 4	O 5	0
22	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
22	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
22	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
22	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
22	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
22	9	1	Total 55	C 45	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
22	9	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
22	9	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	9	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			43	35	1	4	3	
22	8	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	8	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
22	7	1	Total	C	Mg	N	O	0
			48	38	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			48	38	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			54	44	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
22	7	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
22	7	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
22	7	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			53	43	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
22	1	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
22	1	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
22	a	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms	AltConf
22	a	1	Total C Mg N O 62 52 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 50 40 1 4 5	0
22	a	1	Total C Mg N O 55 45 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 50 40 1 4 5	0
22	a	1	Total C Mg N O 45 35 1 4 5	0
22	a	1	Total C Mg N O 51 41 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	a	1	Total C Mg N O 65 55 1 4 5	0
22	b	1	Total C Mg N O 65 55 1 4 5	0
22	b	1	Total C Mg N O 65 55 1 4 5	0
22	b	1	Total C Mg N O 65 55 1 4 5	0
22	b	1	Total C Mg N O 65 55 1 4 5	0
22	b	1	Total C Mg N O 65 55 1 4 5	0

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Mol	Chain	Residues	Atoms					AltConf
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			53	43	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			53	43	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			64	54	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
22	b	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			53	43	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	f	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	f	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
22	h	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
22	h	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
22	j	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
22	j	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
22	l	1	Total	C	Mg	N	O	0
			42	34	1	4	3	

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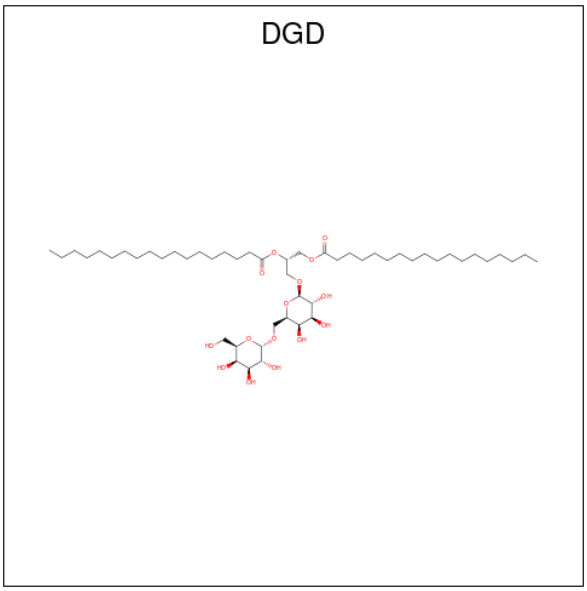
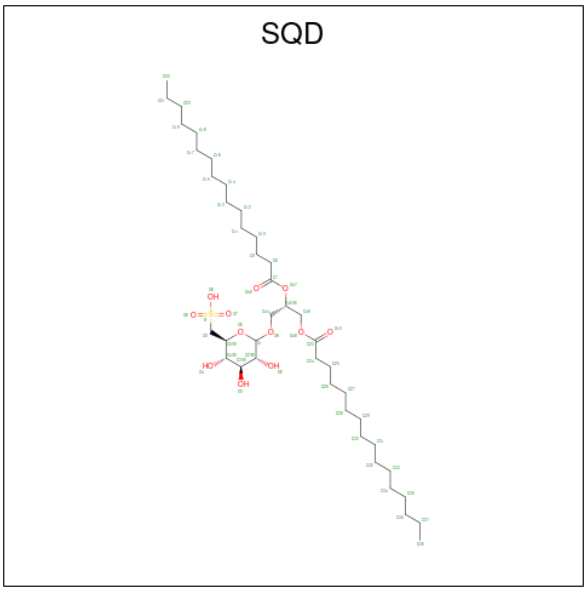
Mol	Chain	Residues	Atoms					AltConf
22	l	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
22	l	1	Total	C	Mg	N	O	0
			46	36	1	4	5	

- Molecule 23 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$) (labeled as "Ligand of Interest" by depositor).



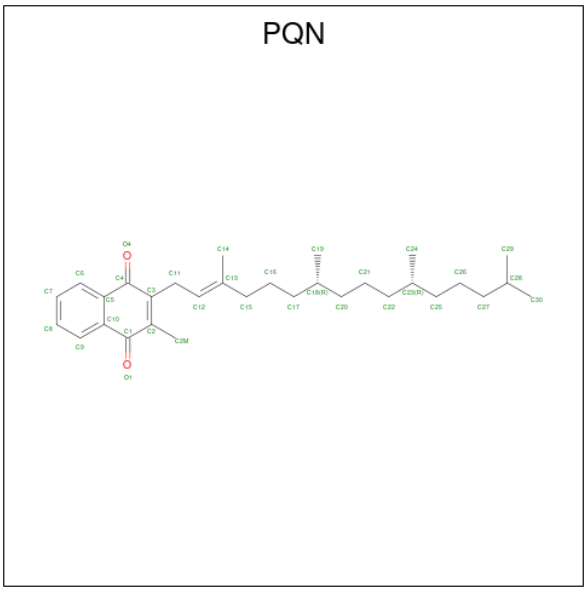
Mol	Chain	Residues	Atoms			AltConf
23	8	1	Total	C	O	0
			40	25	15	
23	b	1	Total	C	O	0
			57	42	15	

- Molecule 24 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: $C_{41}H_{78}O_{12}S$) (labeled as "Ligand of Interest" by depositor).



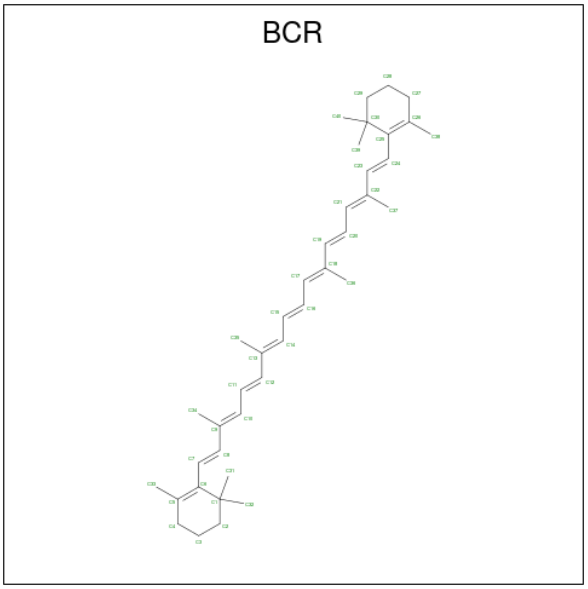
Mol	Chain	Residues	Atoms				AltConf
24	1	1	Total	C	O	S	0
			45	32	12	1	

- Molecule 25 is PHYLLOQUINONE (CCD ID: PQN) (formula: $C_{31}H_{46}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
25	a	1	Total	C	O	0
			33	31	2	
25	b	1	Total	C	O	0
			33	31	2	

- Molecule 26 is BETA-CAROTENE (CCD ID: BCR) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
26	a	1	Total C 40 40	0
26	a	1	Total C 40 40	0
26	a	1	Total C 40 40	0
26	a	1	Total C 40 40	0
26	b	1	Total C 40 40	0
26	b	1	Total C 40 40	0
26	b	1	Total C 40 40	0
26	b	1	Total C 40 40	0
26	b	1	Total C 40 40	0
26	b	1	Total C 40 40	0
26	f	1	Total C 40 40	0
26	f	1	Total C 40 40	0

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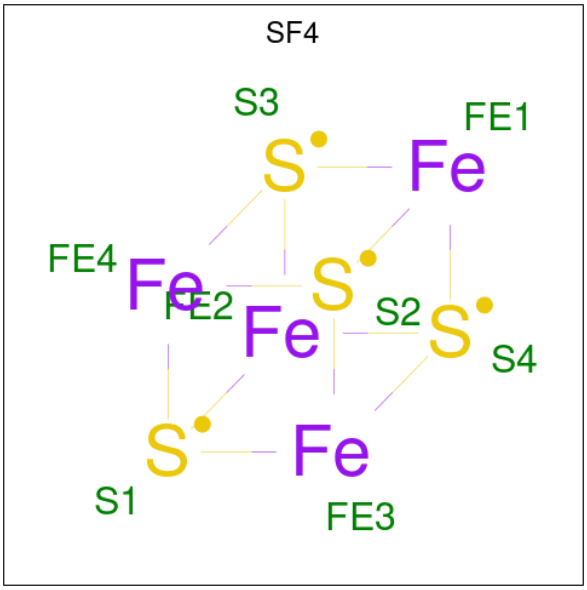
Mol	Chain	Residues	Atoms	AltConf
26	h	1	Total C 40 40	0
26	h	1	Total C 40 40	0
26	i	1	Total C 40 40	0
26	j	1	Total C 40 40	0
26	l	1	Total C 40 40	0
26	l	1	Total C 40 40	0
26	m	1	Total C 40 40	0

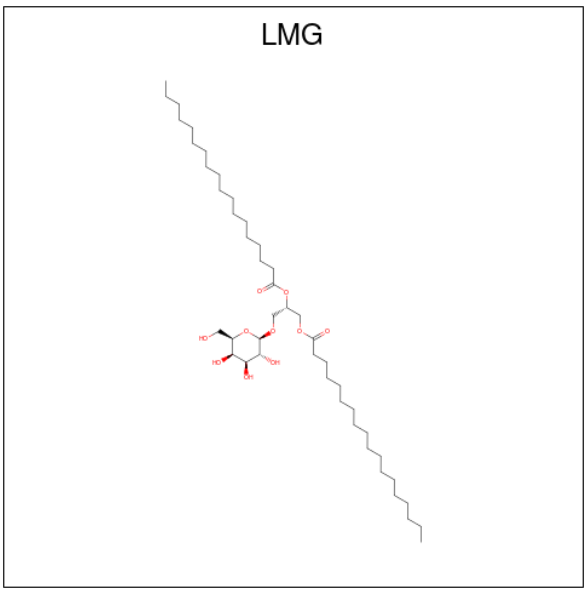
- Molecule 27 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
27	a	1	Total Fe S 8 4 4	0
27	c	1	Total Fe S 8 4 4	0
27	c	1	Total Fe S 8 4 4	0

- Molecule 28 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID:

LMG) (formula: $C_{45}H_{86}O_{10}$) (labeled as "Ligand of Interest" by depositor).



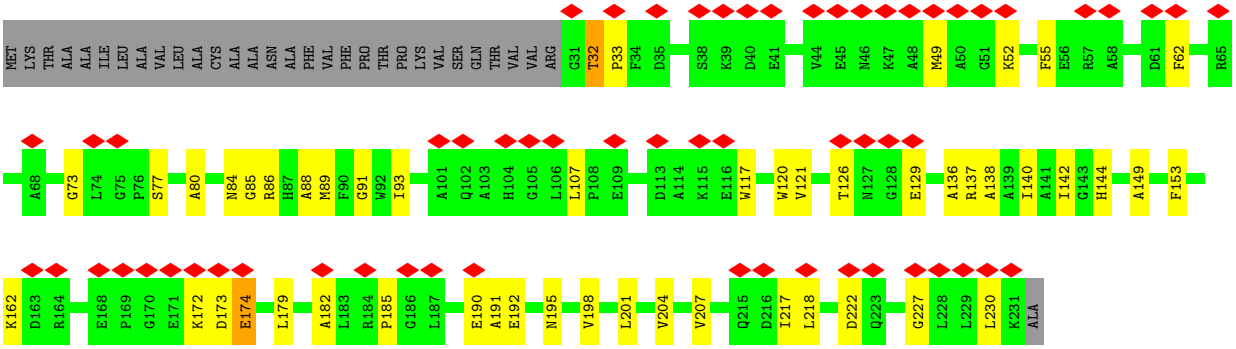
Mol	Chain	Residues	Atoms			AltConf
28	a	1	Total	C	O	0
			34	24	10	
28	j	1	Total	C	O	0
			32	22	10	

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.

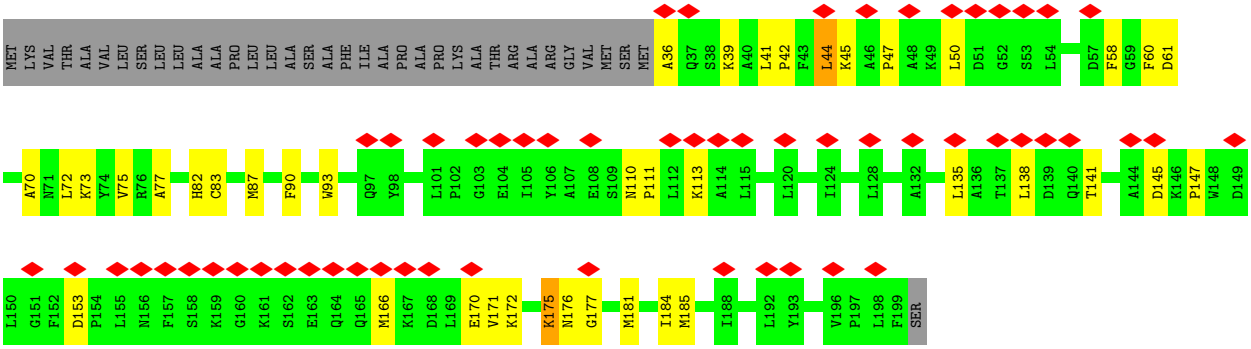
• Molecule 1: VCPI-9

Chain 9:



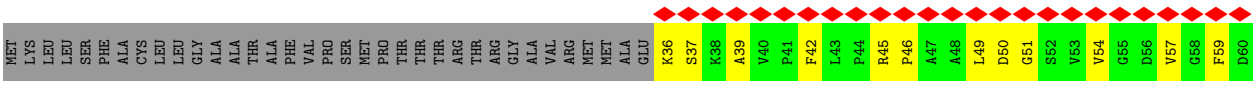
• Molecule 2: VCPI-8

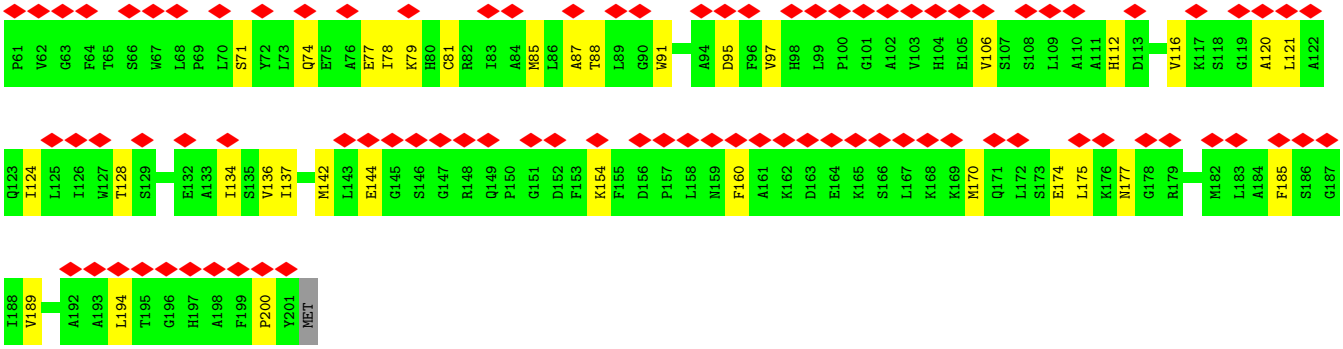
Chain 8:



• Molecule 3: VCPI-7

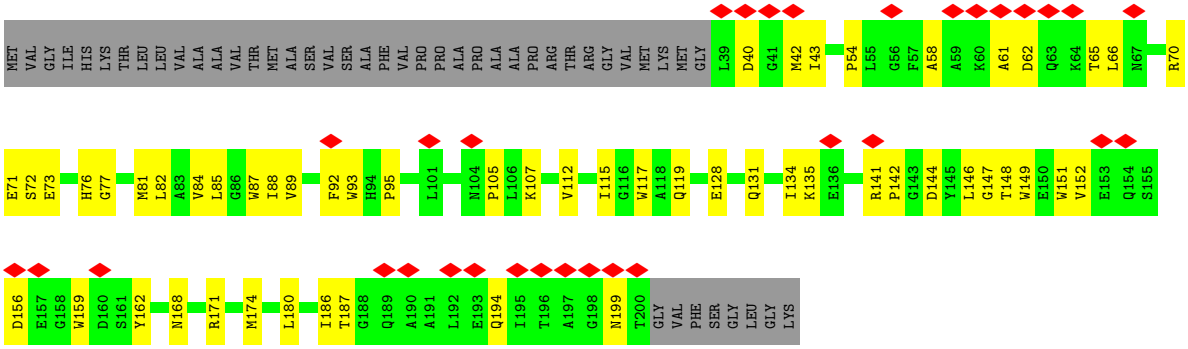
Chain 7:





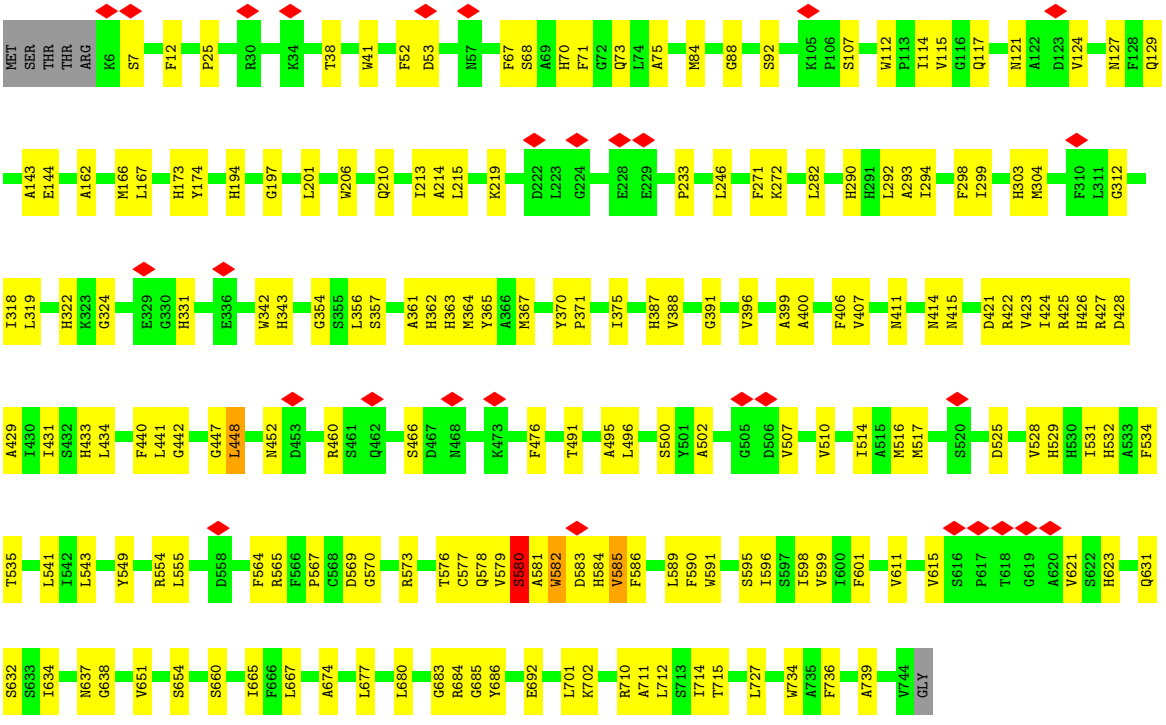
• Molecule 4: VCPI-1

Chain 1:



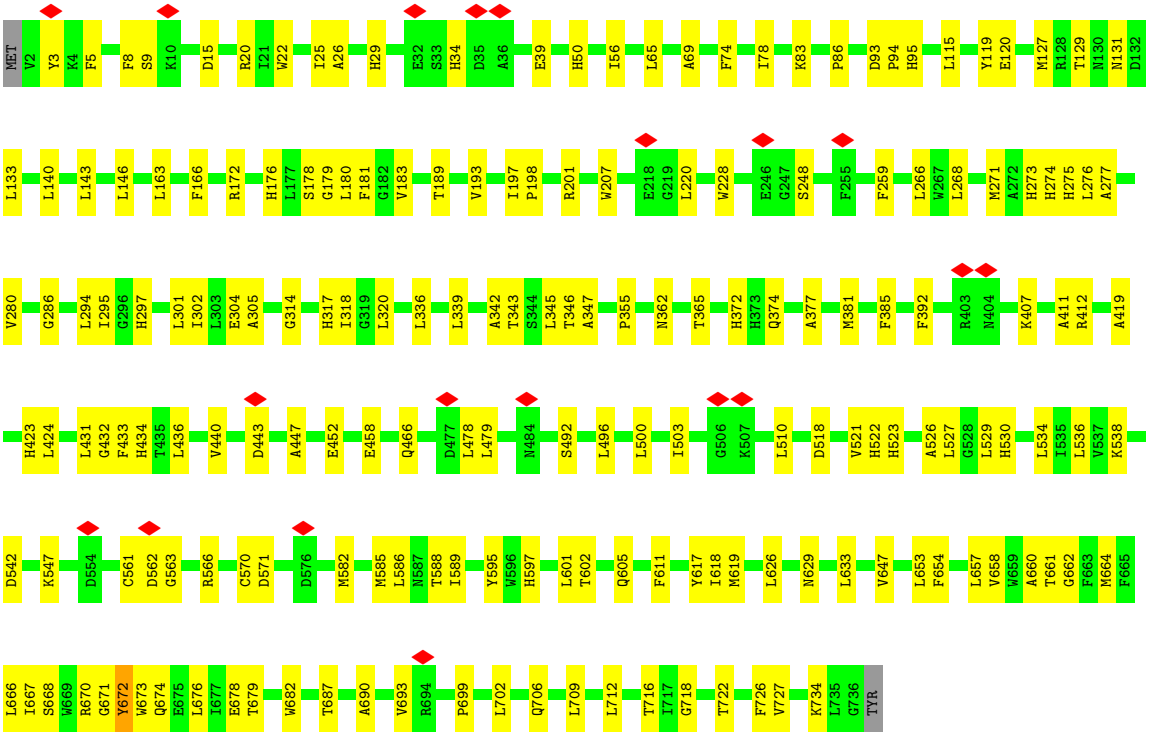
• Molecule 5: Photosystem I P700 chlorophyll a apoprotein A1

Chain a:



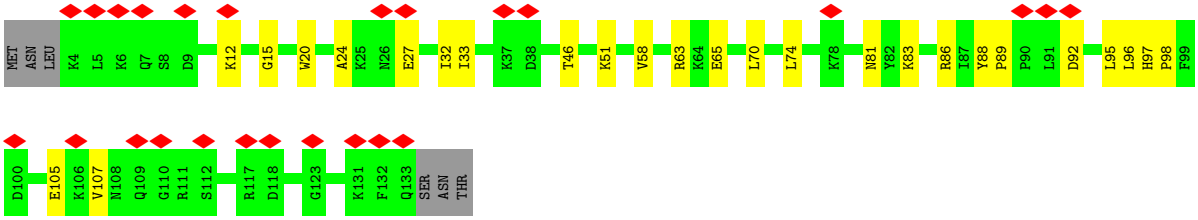
• Molecule 6: Photosystem I P700 chlorophyll a apoprotein A2

Chain b:



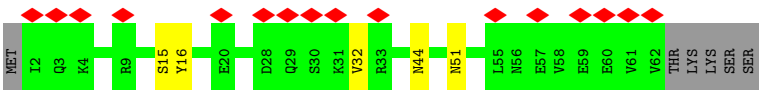
• Molecule 7: Photosystem I reaction center subunit II

Chain d:



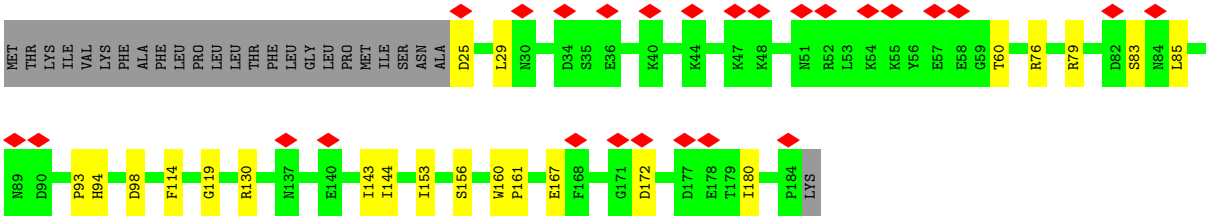
• Molecule 8: Photosystem I reaction center subunit IV

Chain e:

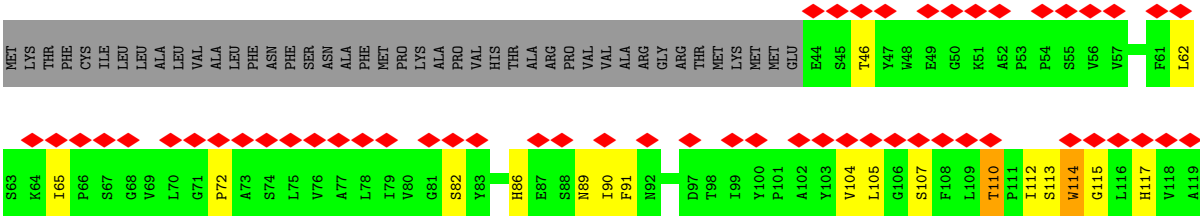


• Molecule 9: Photosystem I reaction center subunit III

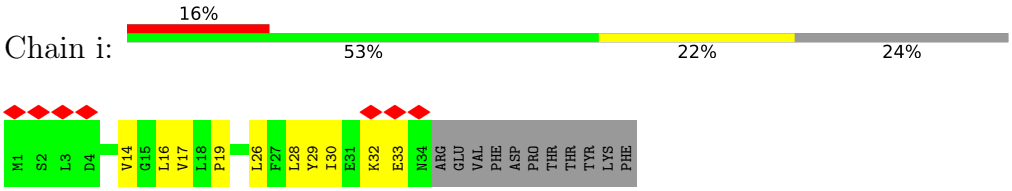
Chain f:



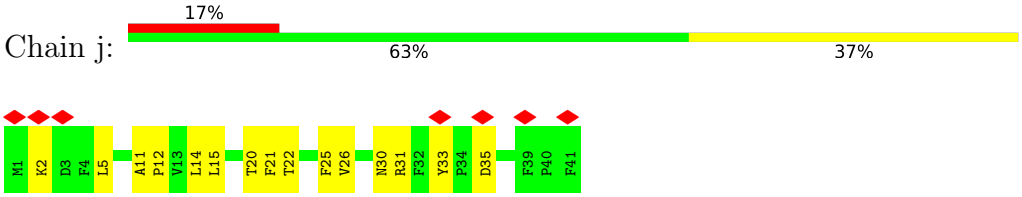
• Molecule 10: PsaR



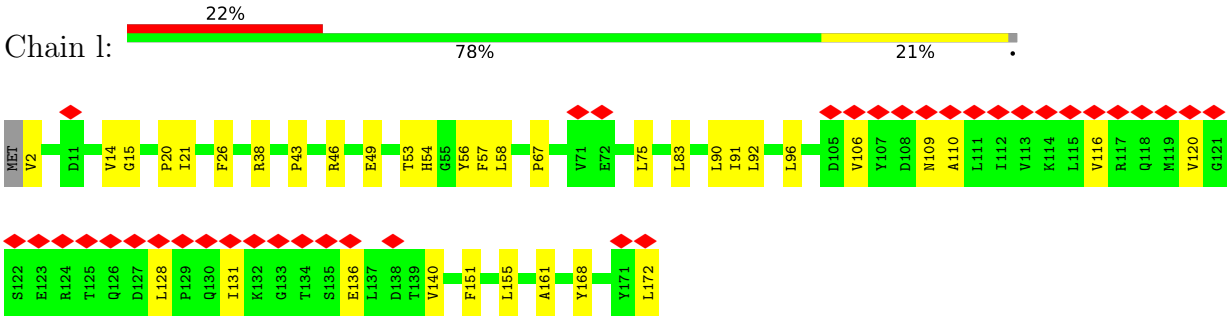
• Molecule 11: Photosystem I reaction center subunit VIII



• Molecule 12: Photosystem I reaction center subunit IX

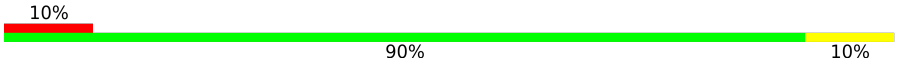


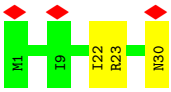
• Molecule 13: PSI subunit V



• Molecule 14: PsaM

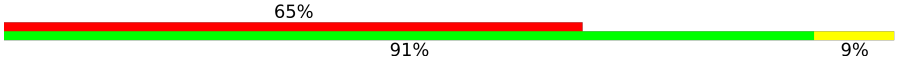
Chain m:

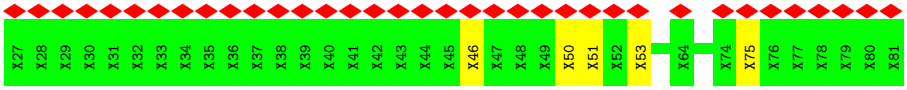




• Molecule 15: PsaS

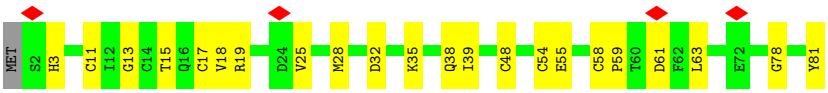
Chain g:





• Molecule 16: Photosystem I iron-sulfur center

Chain c:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	41262	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOCONTINUUM (6k x 4k)	Depositor
Maximum map value	1.615	Depositor
Minimum map value	-0.373	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.023	Depositor
Recommended contour level	0.343	Depositor
Map size (Å)	532.48, 532.48, 532.48	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.04, 1.04, 1.04	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SQD, A1L1F, PQN, A1L1G, BCR, 45D, DGD, XAT, LHG, LMG, CLA, SF4

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	9	0.35	0/1496	0.33	0/2032
2	8	0.47	1/1286 (0.1%)	0.44	3/1743 (0.2%)
3	7	0.18	0/1248	0.37	0/1700
4	1	0.14	0/1293	0.33	0/1759
5	a	0.28	3/6024 (0.0%)	0.33	4/8219 (0.0%)
6	b	0.20	0/6080	0.32	1/8302 (0.0%)
7	d	0.12	0/1040	0.32	0/1402
8	e	0.09	0/502	0.20	0/681
9	f	0.14	0/1297	0.31	0/1762
10	h	0.51	1/667 (0.1%)	0.52	0/915
11	i	0.14	0/278	0.33	0/378
12	j	0.16	0/351	0.36	0/478
13	l	0.14	0/1315	0.31	0/1796
14	m	0.09	0/210	0.28	0/288
16	c	0.13	0/606	0.34	0/822
All	All	0.25	5/23693 (0.0%)	0.34	8/32277 (0.0%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	a	580	SER	CA-C	-7.05	1.43	1.52
2	8	44	LEU	C-O	-6.16	1.15	1.23
5	a	581	ALA	CA-C	-5.45	1.45	1.52
10	h	114	TRP	C-O	-5.25	1.18	1.24
5	a	582	TRP	CA-C	-5.03	1.45	1.52

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	a	581	ALA	N-CA-C	-8.63	102.50	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	a	448	LEU	N-CA-C	-6.10	104.18	111.69
2	8	39	LYS	N-CA-C	-6.09	105.68	113.23
5	a	584	HIS	N-CA-C	-5.82	106.52	113.97
6	b	672	TYR	N-CA-C	-5.58	106.31	113.23
2	8	41	LEU	CA-C-N	5.13	124.84	119.82
2	8	41	LEU	C-N-CA	5.13	124.84	119.82
5	a	585	VAL	N-CA-C	-5.04	105.49	112.50

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	9	1466	0	1470	49	0
2	8	1258	0	1280	33	0
3	7	1220	0	1209	44	0
4	1	1262	0	1237	39	0
5	a	5827	0	5697	140	0
6	b	5865	0	5710	149	0
7	d	1014	0	1015	20	0
8	e	494	0	495	5	0
9	f	1266	0	1262	20	0
10	h	646	0	649	18	0
11	i	271	0	292	12	0
12	j	339	0	342	21	0
13	l	1283	0	1278	29	0
14	m	210	0	226	3	0
15	g	275	0	62	3	0
16	c	596	0	583	19	0
17	1	45	0	0	1	0
17	7	45	0	0	2	0
17	9	90	0	0	3	0
18	1	57	0	0	2	0
18	8	57	0	0	2	0
18	9	57	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	h	57	0	0	4	0
19	1	88	0	112	6	0
19	7	176	0	224	28	0
19	8	132	0	168	17	0
19	9	88	0	112	14	0
19	a	44	0	56	6	0
19	j	44	0	56	6	0
20	9	42	0	52	8	0
21	9	82	0	110	5	0
21	a	75	0	93	7	0
21	b	31	0	32	0	0
22	1	547	0	508	14	0
22	7	576	0	444	25	0
22	8	507	0	429	24	0
22	9	519	0	452	35	0
22	a	2579	0	2562	140	0
22	b	2410	0	2464	129	0
22	f	117	0	115	1	0
22	h	120	0	121	6	0
22	j	100	0	86	9	0
22	l	148	0	123	3	0
23	8	40	0	38	2	0
23	b	57	0	72	6	0
24	1	45	0	54	3	0
25	a	33	0	46	3	0
25	b	33	0	46	2	0
26	a	160	0	224	13	0
26	b	240	0	336	25	0
26	f	80	0	112	15	0
26	h	80	0	112	5	0
26	i	40	0	56	2	0
26	j	40	0	56	9	0
26	l	80	0	112	12	0
26	m	40	0	56	1	0
27	a	8	0	0	0	0
27	c	16	0	0	2	0
28	a	34	0	38	10	0
28	j	32	0	34	7	0
All	All	33183	0	32518	863	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 13.

All (863) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:806:CLA:O1A	22:a:814:CLA:HBA1	1.81	0.81
5:a:531:ILE:HD12	22:a:801:CLA:H172	1.63	0.80
19:8:303:XAT:H12	22:8:312:CLA:HAB	1.67	0.77
22:b:825:CLA:HMA1	26:b:845:BCR:H17C	1.66	0.77
22:1:312:CLA:HHC	22:1:312:CLA:HBB1	1.69	0.73
1:9:179:LEU:HD22	20:9:305:45D:H113	1.73	0.71
22:b:833:CLA:H72	26:b:845:BCR:H391	1.72	0.71
9:f:167:GLU:HG3	9:f:172:ASP:HB3	1.73	0.70
4:1:43:ILE:O	4:1:70:ARG:NH2	2.25	0.70
22:b:807:CLA:H151	22:b:828:CLA:HBB2	1.74	0.68
26:a:847:BCR:H362	26:a:848:BCR:H21C	1.73	0.68
5:a:569:ASP:OD2	5:a:573:ARG:NH2	2.27	0.68
12:j:22:THR:HA	12:j:25:PHE:CE1	2.28	0.68
5:a:363:HIS:ND1	22:a:819:CLA:OBD	2.26	0.68
22:a:804:CLA:HED1	12:j:15:LEU:HD22	1.76	0.67
6:b:273:HIS:HD1	22:b:817:CLA:HAB	1.58	0.67
4:1:194:GLN:HG3	4:1:199:ASN:HB3	1.77	0.67
5:a:112:TRP:HB3	19:j:101:XAT:H373	1.77	0.67
4:1:70:ARG:NH1	4:1:73:GLU:OE1	2.28	0.66
4:1:146:LEU:HD13	22:a:844:CLA:H91	1.77	0.66
6:b:336:LEU:HD21	22:b:829:CLA:HAB	1.78	0.66
6:b:9:SER:HB2	23:b:848:DGD:HE62	1.78	0.66
5:a:356:LEU:HD11	22:a:820:CLA:H71	1.78	0.66
6:b:295:ILE:HG13	22:b:820:CLA:HED1	1.77	0.65
6:b:304:GLU:HG2	6:b:318:ILE:HG13	1.78	0.65
12:j:31:ARG:HD3	19:j:101:XAT:H222	1.78	0.65
22:a:834:CLA:H142	26:b:846:BCR:H15C	1.79	0.65
10:h:114:TRP:HA	10:h:117:HIS:NE2	2.11	0.65
22:b:823:CLA:HBB1	22:b:837:CLA:H151	1.79	0.65
6:b:29:HIS:ND1	22:b:807:CLA:O1A	2.28	0.65
5:a:197:GLY:O	5:a:201:LEU:HB2	1.97	0.65
3:7:120:ALA:HB1	22:7:311:CLA:HMD1	1.79	0.65
9:f:79:ARG:NH1	12:j:35:ASP:O	2.30	0.64
1:9:191:ALA:O	1:9:195:ASN:ND2	2.30	0.64
9:f:25:ASP:N	9:f:29:LEU:O	2.30	0.64
22:a:808:CLA:HMB2	26:j:104:BCR:HC8	1.79	0.64
22:b:813:CLA:H121	22:b:818:CLA:H72	1.79	0.64
11:i:29:TYR:HA	11:i:32:LYS:HE2	1.78	0.64
6:b:115:LEU:HA	6:b:365:THR:HG22	1.80	0.64
3:7:136:VAL:HG22	22:7:312:CLA:HMA1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:j:26:VAL:HG11	26:j:104:BCR:H24C	1.81	0.63
5:a:362:HIS:HA	5:a:365:TYR:CE1	2.33	0.63
3:7:50:ASP:OD1	3:7:51:GLY:N	2.32	0.63
3:7:136:VAL:HG11	22:b:820:CLA:HBA1	1.81	0.62
5:a:684:ARG:H	6:b:570:CYS:HB2	1.63	0.62
5:a:298:PHE:HE1	22:a:822:CLA:HAB	1.64	0.62
6:b:561:CYS:SG	6:b:563:GLY:N	2.71	0.62
7:d:88:TYR:HB2	7:d:92:ASP:HB2	1.81	0.62
12:j:21:PHE:HA	22:j:103:CLA:HBB2	1.80	0.62
19:7:303:XAT:H362	22:7:308:CLA:H51	1.81	0.62
5:a:429:ALA:O	5:a:433:HIS:ND1	2.31	0.62
3:7:144:GLU:HB2	6:b:294:LEU:HD11	1.82	0.62
5:a:114:ILE:HB	19:j:101:XAT:H372	1.81	0.62
5:a:589:LEU:HD21	22:a:831:CLA:HBC1	1.81	0.62
7:d:86:ARG:HB2	7:d:96:LEU:HD11	1.82	0.62
5:a:70:HIS:ND1	22:a:814:CLA:OBD	2.31	0.61
22:a:818:CLA:C3D	28:a:853:LMG:HC91	2.30	0.61
22:8:305:CLA:CGA	23:8:315:DGD:HE5	2.29	0.61
5:a:298:PHE:CE1	22:a:822:CLA:HAB	2.35	0.61
22:8:305:CLA:HAA2	23:8:315:DGD:HE5	1.82	0.61
4:1:186:ILE:HG13	4:1:187:THR:HG23	1.83	0.61
6:b:129:THR:HG22	6:b:131:ASN:H	1.63	0.61
18:h:204:A1L1F:C12	18:h:204:A1L1F:C4	2.78	0.61
6:b:424:LEU:HD13	6:b:534:LEU:HA	1.81	0.61
5:a:167:LEU:HD11	22:a:810:CLA:H193	1.83	0.61
6:b:15:ASP:HB3	6:b:20:ARG:HB2	1.82	0.61
5:a:162:ALA:O	5:a:166:MET:HG2	2.00	0.61
22:a:833:CLA:HBC2	22:a:840:CLA:HMC2	1.83	0.61
5:a:121:ASN:HB3	5:a:129:GLN:HB3	1.82	0.61
6:b:660:ALA:HB3	22:b:804:CLA:HBB2	1.83	0.61
22:b:831:CLA:HBC3	26:f:804:BCR:H362	1.82	0.60
22:b:830:CLA:HAB	22:b:837:CLA:HBB2	1.82	0.60
1:9:182:ALA:HB3	1:9:190:GLU:HG2	1.82	0.60
5:a:53:ASP:OD2	5:a:343:HIS:NE2	2.35	0.60
18:1:304:A1L1F:C2	22:a:844:CLA:H11	2.31	0.60
22:a:820:CLA:H92	22:a:830:CLA:H91	1.84	0.60
7:d:12:LYS:HB2	7:d:51:LYS:HB3	1.82	0.60
2:8:185:MET:HE2	22:8:308:CLA:HBB2	1.83	0.59
6:b:412:ARG:NH2	22:b:830:CLA:O1D	2.35	0.59
13:l:38:ARG:O	13:l:46:ARG:NH2	2.35	0.59
5:a:507:VAL:HG22	5:a:517:MET:HG3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:8:302:XAT:H32	22:8:307:CLA:HAB	1.85	0.59
17:1:301:A1L1G:C18	22:1:306:CLA:HAC2	2.32	0.59
22:a:804:CLA:ND	12:j:12:PRO:HG3	2.17	0.58
1:9:62:PHE:HZ	20:9:305:45D:H062	1.68	0.58
3:7:88:THR:HG21	19:7:304:XAT:H12	1.85	0.58
26:b:842:BCR:H23C	26:h:202:BCR:H323	1.86	0.58
22:a:818:CLA:C1D	28:a:853:LMG:H291	2.34	0.58
6:b:74:PHE:O	6:b:78:ILE:HG12	2.04	0.58
19:9:303:XAT:H363	2:8:135:LEU:HD12	1.86	0.58
5:a:107:SER:HB2	5:a:124:VAL:HG11	1.85	0.58
22:b:804:CLA:CGA	22:b:804:CLA:H3A	2.34	0.58
10:h:121:TRP:CD1	22:h:203:CLA:HAA1	2.39	0.58
5:a:517:MET:HE1	5:a:623:HIS:NE2	2.19	0.58
1:9:185:PRO:HA	22:9:313:CLA:HBA2	1.85	0.57
5:a:292:LEU:HD21	22:a:818:CLA:CAB	2.34	0.57
5:a:598:ILE:HG13	22:a:801:CLA:H192	1.86	0.57
22:b:840:CLA:HBB2	22:h:203:CLA:C2	2.34	0.57
5:a:734:TRP:NE1	22:a:829:CLA:O1A	2.36	0.57
22:a:826:CLA:HBA1	22:a:830:CLA:H193	1.86	0.57
1:9:222:ASP:HB2	1:9:230:LEU:HD13	1.86	0.57
7:d:97:HIS:HB3	7:d:98:PRO:HD3	1.85	0.57
11:i:26:LEU:HD13	26:l:205:BCR:HC8	1.86	0.57
5:a:114:ILE:HG13	5:a:115:VAL:HG13	1.86	0.57
3:7:185:PHE:CD2	19:7:303:XAT:H12	2.40	0.57
6:b:69:ALA:HB2	6:b:133:LEU:HB2	1.86	0.57
5:a:7:SER:H	5:a:12:PHE:HE2	1.52	0.57
5:a:213:ILE:HG23	5:a:233:PRO:HB3	1.87	0.57
6:b:178:SER:HB3	6:b:286:GLY:HA3	1.86	0.57
5:a:324:GLY:HA3	21:a:846:LHG:HC32	1.87	0.56
22:a:802:CLA:CGA	22:a:802:CLA:H3A	2.35	0.56
6:b:582:MET:HG3	6:b:712:LEU:HD21	1.87	0.56
22:b:805:CLA:H18	11:i:14:VAL:HG22	1.86	0.56
1:9:107:LEU:HD11	1:9:140:ILE:HD11	1.87	0.56
4:1:72:SER:O	4:1:76:HIS:ND1	2.28	0.56
22:a:822:CLA:HBC3	22:a:828:CLA:H172	1.87	0.56
22:a:854:CLA:H112	12:j:14:LEU:HD22	1.88	0.56
6:b:39:GLU:HB3	6:b:163:LEU:HD11	1.87	0.56
4:1:88:ILE:HG22	4:1:92:PHE:HE1	1.71	0.56
5:a:441:LEU:HB3	5:a:534:PHE:HB2	1.88	0.56
5:a:660:SER:HB2	6:b:447:ALA:HB1	1.88	0.56
22:a:825:CLA:H12	26:a:849:BCR:H14C	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:a:853:LMG:H112	28:a:853:LMG:C9	2.35	0.56
2:8:60:PHE:HE1	22:8:305:CLA:HBC3	1.70	0.56
5:a:651:VAL:HG22	5:a:739:ALA:HB3	1.87	0.56
28:a:853:LMG:H112	28:a:853:LMG:O8	2.05	0.56
7:d:105:GLU:HG2	16:c:19:ARG:HB3	1.88	0.56
1:9:153:PHE:HA	13:l:151:PHE:HE2	1.71	0.55
22:a:818:CLA:CHD	28:a:853:LMG:H291	2.36	0.55
6:b:5:PHE:HB2	11:i:30:ILE:HA	1.88	0.55
13:l:92:LEU:HB3	26:l:205:BCR:H401	1.89	0.55
22:a:841:CLA:H72	26:f:801:BCR:H17C	1.88	0.55
22:b:806:CLA:HBA1	22:b:813:CLA:HBA1	1.87	0.55
22:b:821:CLA:HHB	22:b:822:CLA:H2	1.88	0.55
12:j:14:LEU:HD21	28:j:105:LMG:H141	1.89	0.55
13:l:54:HIS:HA	13:l:57:PHE:CE2	2.41	0.55
5:a:290:HIS:HB2	22:a:819:CLA:C1B	2.37	0.55
26:f:801:BCR:HC32	22:j:102:CLA:H43	1.87	0.55
16:c:15:THR:HG22	16:c:28:MET:HG3	1.89	0.55
1:9:85:GLY:O	1:9:89:MET:HG3	2.07	0.55
1:9:149:ALA:O	1:9:153:PHE:HD1	1.90	0.55
1:9:162:LYS:NZ	22:9:312:CLA:O1A	2.39	0.55
5:a:651:VAL:HG21	5:a:736:PHE:HA	1.88	0.55
5:a:686:TYR:OH	22:a:802:CLA:OBD	2.21	0.55
22:a:841:CLA:H92	26:f:801:BCR:H15C	1.88	0.55
1:9:93:ILE:HG13	19:9:304:XAT:H8	1.89	0.54
4:1:115:ILE:O	4:1:119:GLN:NE2	2.40	0.54
6:b:355:PRO:HG3	22:b:818:CLA:HBA1	1.90	0.54
22:b:823:CLA:HBB2	22:b:840:CLA:H52	1.90	0.54
8:e:32:VAL:HG11	16:c:35:LYS:HD3	1.89	0.54
1:9:117:TRP:O	1:9:120:TRP:CD1	2.60	0.54
6:b:693:VAL:HG11	22:b:801:CLA:HAB	1.87	0.54
22:9:312:CLA:HBA1	22:9:312:CLA:HBD	1.89	0.54
6:b:633:LEU:HD22	6:b:726:PHE:HA	1.89	0.54
4:1:61:ALA:HB1	4:1:65:THR:HB	1.90	0.54
5:a:210:GLN:HA	5:a:214:ALA:HB3	1.89	0.54
3:7:200:PRO:O	19:7:304:XAT:O3	2.26	0.54
6:b:443:ASP:OD1	6:b:617:TYR:HB2	2.08	0.54
2:8:75:VAL:HG23	22:8:307:CLA:HMA2	1.89	0.54
3:7:46:PRO:HG2	3:7:49:LEU:HD12	1.90	0.54
5:a:573:ARG:HG3	16:c:78:GLY:HA3	1.90	0.54
5:a:591:TRP:HE1	22:b:804:CLA:C1D	2.20	0.54
5:a:667:LEU:HD11	6:b:619:MET:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:829:CLA:H101	26:j:104:BCR:H341	1.89	0.54
6:b:661:THR:O	6:b:664:MET:HB3	2.08	0.54
5:a:396:VAL:HG11	5:a:589:LEU:HG	1.91	0.53
2:8:36:ALA:N	2:8:44:LEU:O	2.42	0.53
18:8:304:A1L1F:C2	14:m:23:ARG:HD3	2.38	0.53
5:a:197:GLY:HA3	22:a:814:CLA:HBB1	1.89	0.53
5:a:702:LYS:HB3	9:f:130:ARG:HD3	1.89	0.53
6:b:140:LEU:HG	26:b:844:BCR:H382	1.90	0.53
6:b:718:GLY:O	6:b:722:THR:HG22	2.09	0.53
5:a:388:VAL:HG12	5:a:596:ILE:HG23	1.89	0.53
22:a:835:CLA:O2D	22:a:835:CLA:H2A	2.09	0.53
6:b:521:VAL:HG21	6:b:595:TYR:HB2	1.89	0.53
22:b:836:CLA:HBC3	26:f:804:BCR:H292	1.91	0.53
6:b:317:HIS:HB3	6:b:320:LEU:HD12	1.89	0.53
6:b:709:LEU:HD11	23:b:848:DGD:HB41	1.90	0.53
7:d:63:ARG:NH2	7:d:65:GLU:OE1	2.41	0.53
6:b:22:TRP:CG	6:b:706:GLN:HE22	2.26	0.53
6:b:189:THR:HG21	6:b:276:LEU:HB2	1.91	0.53
4:1:77:GLY:O	4:1:81:MET:HG3	2.09	0.53
22:a:810:CLA:HAB	22:j:102:CLA:HMD2	1.91	0.53
22:a:825:CLA:HMA3	22:a:844:CLA:HAB	1.91	0.53
3:7:128:THR:HG23	17:7:302:A1L1G:C17	2.39	0.53
22:a:820:CLA:HAB	22:a:820:CLA:H8	1.90	0.53
2:8:177:GLY:O	2:8:181:MET:HG3	2.09	0.52
22:a:831:CLA:H42	21:a:845:LHG:H251	1.90	0.52
1:9:107:LEU:HG	1:9:136:ALA:HB1	1.90	0.52
22:a:834:CLA:H151	25:b:841:PQN:H202	1.91	0.52
22:b:829:CLA:H42	23:b:848:DGD:HB42	1.91	0.52
2:8:70:ALA:H	22:b:811:CLA:HED1	1.75	0.52
1:9:192:GLU:HB2	22:9:312:CLA:C1B	2.39	0.52
2:8:175:LYS:HB3	22:8:306:CLA:HMD2	1.90	0.52
5:a:219:LYS:HD3	5:a:246:LEU:HB3	1.90	0.52
7:d:95:LEU:HD22	15:g:75:UNK:HA	1.92	0.52
9:f:143:ILE:HG13	9:f:144:ILE:HG13	1.92	0.52
5:a:411:ASN:ND2	5:a:414:ASN:OD1	2.37	0.52
22:b:801:CLA:H101	22:b:801:CLA:HBB1	1.91	0.52
16:c:11:CYS:SG	16:c:39:ILE:HG13	2.50	0.52
22:8:305:CLA:HBC2	3:7:134:ILE:HG13	1.91	0.52
5:a:431:ILE:HG13	5:a:549:TYR:HE1	1.74	0.52
3:7:121:LEU:HD13	22:7:316:CLA:HBC3	1.92	0.52
22:a:809:CLA:CHC	22:a:810:CLA:HMD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:816:CLA:H91	10:h:105:LEU:HG	1.91	0.51
4:1:85:LEU:HB3	22:1:308:CLA:HMC2	1.92	0.51
22:b:807:CLA:H52	23:b:848:DGD:HB72	1.93	0.51
22:b:836:CLA:HBC3	26:f:804:BCR:H401	1.91	0.51
15:g:51:UNK:O	15:g:53:UNK:N	2.42	0.51
16:c:58:CYS:SG	16:c:63:LEU:HA	2.51	0.51
22:a:827:CLA:H93	22:a:840:CLA:H52	1.92	0.51
6:b:26:ALA:HA	22:b:829:CLA:H43	1.93	0.51
5:a:460:ARG:NH2	22:a:835:CLA:O1D	2.44	0.51
5:a:577:CYS:O	6:b:671:GLY:HA3	2.11	0.51
6:b:342:ALA:O	6:b:346:THR:HG23	2.11	0.51
22:b:823:CLA:HAB	22:b:830:CLA:HMD1	1.93	0.51
6:b:434:HIS:CD2	26:b:849:BCR:H333	2.46	0.51
6:b:662:GLY:O	6:b:666:LEU:HG	2.10	0.51
18:h:204:A1L1F:O46	22:h:205:CLA:H52	2.11	0.51
1:9:218:LEU:HG	22:9:314:CLA:HMA2	1.92	0.51
3:7:45:ARG:NH1	3:7:49:LEU:O	2.42	0.51
19:7:301:XAT:H10	22:7:315:CLA:HMD1	1.93	0.51
6:b:274:HIS:HB2	22:b:817:CLA:C1B	2.41	0.51
6:b:722:THR:HG23	22:b:803:CLA:O1D	2.11	0.51
28:a:853:LMG:HC92	28:a:853:LMG:C11	2.41	0.51
6:b:50:HIS:ND1	22:b:813:CLA:OBD	2.38	0.51
6:b:273:HIS:ND1	22:b:817:CLA:HAB	2.26	0.51
22:b:811:CLA:H72	22:b:812:CLA:HBC3	1.93	0.51
16:c:13:GLY:O	16:c:38:GLN:NE2	2.44	0.51
6:b:179:GLY:O	6:b:183:VAL:HB	2.10	0.50
13:l:38:ARG:NH1	13:l:49:GLU:OE1	2.40	0.50
1:9:137:ARG:NH1	22:9:318:CLA:OBD	2.41	0.50
18:1:304:A1L1F:C56	21:a:846:LHG:H241	2.41	0.50
9:f:160:TRP:CD1	9:f:161:PRO:HD3	2.46	0.50
6:b:93:ASP:OD1	6:b:95:HIS:ND1	2.33	0.50
6:b:452:GLU:OE2	9:f:76:ARG:NE	2.42	0.50
6:b:602:THR:HG21	6:b:611:PHE:HB2	1.93	0.50
7:d:33:ILE:HG22	7:d:58:VAL:HG22	1.92	0.50
16:c:17:CYS:SG	16:c:18:VAL:N	2.85	0.50
1:9:179:LEU:HD22	20:9:305:45D:C11	2.40	0.50
13:l:106:VAL:H	13:l:140:VAL:HG23	1.77	0.50
9:f:85:LEU:HD13	9:f:93:PRO:HB3	1.92	0.50
1:9:191:ALA:HB1	22:9:313:CLA:HAA1	1.93	0.50
3:7:54:VAL:HG21	3:7:74:GLN:HE21	1.77	0.50
17:9:301:A1L1G:C44	22:9:315:CLA:HBC3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:818:CLA:HHC	22:a:818:CLA:HBB1	1.93	0.50
16:c:17:CYS:HB3	27:c:102:SF4:S4	2.52	0.50
22:a:818:CLA:O1A	28:a:853:LMG:O10	2.30	0.49
6:b:478:LEU:HG	6:b:479:LEU:HG	1.93	0.49
3:7:42:PHE:HE2	22:7:306:CLA:HAB	1.77	0.49
26:b:849:BCR:H23C	12:j:33:TYR:CD2	2.47	0.49
11:i:26:LEU:HD22	26:l:205:BCR:H323	1.94	0.49
1:9:117:TRP:O	1:9:120:TRP:NE1	2.45	0.49
22:a:818:CLA:CHD	22:a:819:CLA:HBB2	2.43	0.49
6:b:492:SER:HA	6:b:496:LEU:HD12	1.94	0.49
2:8:50:LEU:HD11	2:8:61:ASP:HB2	1.93	0.49
5:a:423:VAL:HA	5:a:426:HIS:CE1	2.47	0.49
22:h:203:CLA:HBA1	22:h:203:CLA:HBD	1.93	0.49
6:b:25:ILE:HG12	26:l:205:BCR:H312	1.94	0.49
6:b:305:ALA:HB2	10:h:46:THR:HB	1.93	0.49
1:9:91:GLY:HA3	19:9:303:XAT:H173	1.94	0.49
1:9:179:LEU:HA	22:9:308:CLA:HMD1	1.93	0.49
2:8:172:LYS:O	2:8:176:ASN:ND2	2.39	0.49
3:7:97:VAL:O	3:7:97:VAL:HG13	2.12	0.49
5:a:440:PHE:HE2	22:a:839:CLA:HAB	1.76	0.49
22:a:803:CLA:H2	6:b:657:LEU:HD22	1.95	0.49
28:a:853:LMG:H131	28:a:853:LMG:H292	1.93	0.49
22:b:832:CLA:HBB2	26:f:801:BCR:HC41	1.94	0.49
5:a:674:ALA:HB3	22:a:802:CLA:HBB2	1.94	0.49
3:7:91:TRP:CE3	19:7:303:XAT:H22	2.48	0.49
22:7:316:CLA:HBA1	22:7:316:CLA:H3A	1.59	0.49
5:a:565:ARG:HG2	5:a:715:THR:HG21	1.93	0.49
6:b:443:ASP:OD1	6:b:618:ILE:N	2.46	0.49
15:g:46:UNK:O	15:g:50:UNK:N	2.45	0.49
4:1:112:VAL:HB	4:1:117:TRP:NE1	2.27	0.49
5:a:712:LEU:N	25:a:843:PQN:O4	2.45	0.49
6:b:407:LYS:HB3	6:b:411:ALA:HB3	1.95	0.49
7:d:95:LEU:HD11	7:d:98:PRO:HD2	1.95	0.49
13:l:43:PRO:HD3	13:l:136:GLU:CD	2.38	0.49
3:7:185:PHE:O	3:7:189:VAL:HG22	2.13	0.49
5:a:425:ARG:NH2	7:d:15:GLY:O	2.44	0.49
5:a:554:ARG:HB2	6:b:678:GLU:OE1	2.13	0.49
22:a:841:CLA:H61	22:b:832:CLA:H42	1.95	0.49
6:b:277:ALA:HA	22:b:816:CLA:HMC2	1.95	0.49
22:a:802:CLA:H41	6:b:436:LEU:HD22	1.95	0.48
22:b:824:CLA:H141	22:b:824:CLA:H193	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a:712:LEU:HD21	25:a:843:PQN:H151	1.95	0.48
6:b:466:GLN:NE2	22:b:835:CLA:OBD	2.34	0.48
13:l:109:ASN:OD1	13:l:110:ALA:N	2.36	0.48
5:a:292:LEU:HD12	22:a:816:CLA:HMC3	1.95	0.48
6:b:3:TYR:HB2	11:i:33:GLU:HA	1.95	0.48
6:b:181:PHE:HE2	22:b:819:CLA:HAB	1.78	0.48
22:b:801:CLA:H141	22:b:801:CLA:H161	1.63	0.48
5:a:290:HIS:HB2	22:a:819:CLA:CHB	2.44	0.48
6:b:266:LEU:HD22	22:b:817:CLA:HBA1	1.95	0.48
6:b:271:MET:O	6:b:275:HIS:ND1	2.47	0.48
22:b:839:CLA:H13	26:i:101:BCR:H19C	1.95	0.48
12:j:2:LYS:O	28:j:105:LMG:HC61	2.13	0.48
1:9:32:THR:H	1:9:33:PRO:HD2	1.77	0.48
6:b:65:LEU:HD11	26:b:844:BCR:H281	1.95	0.48
22:9:311:CLA:H2A	22:9:311:CLA:O2D	2.14	0.48
2:8:60:PHE:CE1	22:8:305:CLA:HBC3	2.48	0.48
22:a:825:CLA:H71	22:a:840:CLA:H62	1.96	0.48
22:b:823:CLA:H2A	22:b:823:CLA:HED3	1.95	0.48
10:h:72:PRO:HG3	18:h:204:A1L1F:C56	2.43	0.48
22:b:821:CLA:CHB	22:b:822:CLA:H2	2.44	0.48
2:8:36:ALA:HB3	2:8:45:LYS:HZ2	1.79	0.48
5:a:400:ALA:HB2	5:a:585:VAL:HG11	1.95	0.48
5:a:637:ASN:HB2	6:b:653:LEU:HD11	1.95	0.48
6:b:412:ARG:HH21	22:b:830:CLA:CGD	2.27	0.48
22:b:838:CLA:HAB	25:b:841:PQN:H172	1.96	0.48
19:8:303:XAT:H34	22:8:313:CLA:HBB1	1.96	0.48
18:8:304:A1L1F:C36	22:8:311:CLA:H51	2.43	0.48
4:1:88:ILE:HG22	4:1:92:PHE:CE1	2.49	0.48
5:a:476:PHE:HB3	22:a:838:CLA:H11	1.96	0.48
6:b:166:PHE:O	6:b:172:ARG:NH2	2.46	0.48
6:b:597:HIS:CE1	6:b:601:LEU:HD11	2.48	0.48
2:8:58:PHE:HZ	2:8:175:LYS:HZ1	1.62	0.48
3:7:81:CYS:O	3:7:85:MET:HG3	2.13	0.48
3:7:124:ILE:HA	22:7:311:CLA:HBC3	1.95	0.48
19:7:303:XAT:H31	19:7:303:XAT:H391	1.73	0.48
5:a:68:SER:OG	5:a:174:TYR:HB2	2.14	0.48
5:a:570:GLY:O	5:a:576:THR:OG1	2.32	0.48
6:b:518:ASP:OD2	6:b:595:TYR:OH	2.23	0.48
19:8:303:XAT:H15	19:8:303:XAT:H201	1.72	0.47
6:b:595:TYR:CZ	22:b:835:CLA:HBC3	2.49	0.47
8:e:51:ASN:CG	16:c:61:ASP:HB2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:88:ALA:HA	19:9:303:XAT:H8	1.95	0.47
5:a:615:VAL:HG22	5:a:621:VAL:HG22	1.95	0.47
6:b:8:PHE:HB2	6:b:34:HIS:CG	2.49	0.47
22:b:830:CLA:HAB	22:b:837:CLA:CBB	2.44	0.47
26:b:849:BCR:H23C	12:j:33:TYR:HD2	1.78	0.47
2:8:73:LYS:HD3	2:8:145:ASP:HA	1.95	0.47
3:7:185:PHE:HE1	19:7:303:XAT:H162	1.79	0.47
19:7:304:XAT:H35	19:7:304:XAT:H401	1.74	0.47
4:1:42:MET:HE1	4:1:66:LEU:HD22	1.95	0.47
6:b:538:LYS:O	6:b:542:ASP:HB2	2.15	0.47
10:h:114:TRP:HA	10:h:117:HIS:CD2	2.49	0.47
4:1:73:GLU:HB2	22:1:306:CLA:C1B	2.45	0.47
5:a:114:ILE:HG23	5:a:115:VAL:HG22	1.96	0.47
6:b:586:LEU:HD21	6:b:716:THR:HG23	1.96	0.47
6:b:670:ARG:C	6:b:672:TYR:H	2.22	0.47
22:9:314:CLA:CED	22:9:314:CLA:H2A	2.45	0.47
4:1:84:VAL:O	4:1:88:ILE:HG12	2.14	0.47
2:8:171:VAL:HG13	2:8:175:LYS:HE3	1.97	0.47
22:8:311:CLA:HBB1	22:8:311:CLA:HMB3	1.97	0.47
5:a:375:ILE:HG21	5:a:510:VAL:HB	1.97	0.47
6:b:297:HIS:HB3	6:b:302:ILE:HD11	1.97	0.47
22:b:805:CLA:H2	22:b:805:CLA:H61	1.62	0.47
22:b:822:CLA:H43	10:h:115:GLY:C	2.40	0.47
26:b:844:BCR:HC8	26:b:844:BCR:H311	1.97	0.47
7:d:20:TRP:CZ2	13:l:14:VAL:HG12	2.50	0.47
10:h:89:ASN:O	10:h:91:PHE:N	2.46	0.47
22:j:102:CLA:NB	26:j:104:BCR:H281	2.30	0.47
5:a:354:GLY:HA2	5:a:391:GLY:HA2	1.97	0.47
26:a:849:BCR:H15C	26:a:849:BCR:H351	1.79	0.47
6:b:176:HIS:O	6:b:180:LEU:HB3	2.14	0.47
22:b:811:CLA:H51	22:b:812:CLA:H43	1.97	0.47
12:j:5:LEU:HB3	28:j:105:LMG:HC72	1.96	0.47
22:9:316:CLA:HBC3	22:a:803:CLA:H151	1.97	0.47
22:a:832:CLA:HAB	22:a:840:CLA:HBB2	1.96	0.47
22:b:818:CLA:H3A	22:b:818:CLA:HBA2	1.37	0.47
9:f:143:ILE:O	12:j:11:ALA:N	2.48	0.47
4:1:40:ASP:HB2	4:1:42:MET:HG3	1.97	0.47
5:a:491:THR:OG1	22:a:836:CLA:OBD	2.32	0.47
22:a:827:CLA:H13	22:a:827:CLA:H172	1.77	0.47
10:h:82:SER:O	10:h:86:HIS:ND1	2.27	0.47
1:9:201:LEU:HD21	19:9:304:XAT:H371	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a:422:ARG:O	5:a:426:HIS:ND1	2.41	0.46
2:8:110:ASN:HB3	2:8:113:LYS:HB2	1.96	0.46
5:a:144:GLU:HG2	5:a:206:TRP:HH2	1.80	0.46
22:a:819:CLA:H3A	22:a:819:CLA:HBA2	1.53	0.46
26:a:850:BCR:H15C	26:a:850:BCR:H351	1.77	0.46
6:b:127:MET:HE1	26:b:844:BCR:H282	1.97	0.46
6:b:432:GLY:HA2	6:b:527:LEU:HD22	1.96	0.46
13:l:168:TYR:O	13:l:172:LEU:HB2	2.16	0.46
2:8:82:HIS:HB3	2:8:181:MET:SD	2.56	0.46
26:f:804:BCR:H11C	26:f:804:BCR:H341	1.73	0.46
24:1:315:SQD:H161	24:1:315:SQD:H132	1.72	0.46
5:a:677:LEU:HB2	22:a:802:CLA:HMC2	1.97	0.46
22:a:801:CLA:H61	22:a:803:CLA:O1D	2.15	0.46
11:i:28:LEU:O	11:i:32:LYS:HG3	2.16	0.46
19:7:304:XAT:H15	19:7:304:XAT:H201	1.73	0.46
19:7:304:XAT:H191	22:7:314:CLA:HAB	1.97	0.46
5:a:38:THR:HB	5:a:710:ARG:HG3	1.96	0.46
22:a:834:CLA:H201	26:l:205:BCR:H343	1.98	0.46
22:a:834:CLA:CAD	26:l:201:BCR:H10C	2.45	0.46
1:9:49:MET:HA	1:9:52:LYS:HD3	1.97	0.46
22:9:316:CLA:H202	13:l:90:LEU:HD22	1.96	0.46
2:8:166:MET:O	2:8:170:GLU:HG3	2.16	0.46
3:7:120:ALA:O	3:7:124:ILE:HG13	2.16	0.46
19:7:303:XAT:H32	22:7:308:CLA:HAB	1.96	0.46
5:a:514:ILE:HD11	5:a:621:VAL:HG13	1.96	0.46
22:a:818:CLA:NC	28:a:853:LMG:H302	2.31	0.46
21:9:307:LHG:H341	13:l:91:ILE:HD11	1.96	0.46
6:b:687:THR:HG23	6:b:690:ALA:HB3	1.97	0.46
22:9:316:CLA:HBA2	13:l:67:PRO:HG3	1.97	0.46
3:7:37:SER:HB2	3:7:45:ARG:HA	1.97	0.46
5:a:127:ASN:HD21	9:f:60:THR:HG21	1.79	0.46
22:a:820:CLA:H203	22:a:828:CLA:H3A	1.96	0.46
22:1:306:CLA:H202	22:1:306:CLA:H162	1.69	0.46
22:a:801:CLA:CED	22:a:801:CLA:HAA2	2.46	0.46
6:b:143:LEU:HD23	6:b:146:LEU:HD12	1.97	0.46
26:l:205:BCR:H15C	26:l:205:BCR:H351	1.74	0.46
22:a:820:CLA:H3A	22:a:820:CLA:HBA2	1.48	0.46
22:a:829:CLA:HBB1	22:a:829:CLA:HMB1	1.97	0.46
6:b:339:LEU:O	6:b:343:THR:HG22	2.16	0.46
6:b:385:PHE:HB3	6:b:536:LEU:HB3	1.97	0.46
6:b:433:PHE:HZ	26:f:801:BCR:H372	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:b:562:ASP:OD2	6:b:566:ARG:NH2	2.38	0.46
22:b:810:CLA:H142	22:b:810:CLA:H111	1.83	0.46
28:j:105:LMG:H292	28:j:105:LMG:H111	1.98	0.46
2:8:141:THR:HA	2:8:147:PRO:HB3	1.97	0.45
22:b:822:CLA:HHC	22:b:840:CLA:HED1	1.98	0.45
22:b:823:CLA:HHB	22:b:840:CLA:O1D	2.16	0.45
22:b:838:CLA:H12	26:l:205:BCR:H15C	1.97	0.45
16:c:3:HIS:HB2	16:c:48:CYS:SG	2.57	0.45
2:8:93:TRP:CE2	2:8:111:PRO:HG2	2.51	0.45
19:8:302:XAT:H15	19:8:302:XAT:H201	1.73	0.45
19:7:304:XAT:H32	22:7:313:CLA:HAB	1.98	0.45
5:a:370:TYR:OH	22:a:830:CLA:OBD	2.28	0.45
28:a:853:LMG:H112	28:a:853:LMG:HC92	1.98	0.45
6:b:678:GLU:HG2	16:c:81:TYR:HE1	1.81	0.45
22:b:812:CLA:H62	22:b:812:CLA:H41	1.62	0.45
22:b:825:CLA:HAA2	22:b:826:CLA:OBD	2.16	0.45
11:i:26:LEU:HB3	26:l:205:BCR:H323	1.96	0.45
17:9:301:A1L1G:O13	19:9:304:XAT:H28	2.16	0.45
17:9:306:A1L1G:C31	22:9:310:CLA:HBD	2.46	0.45
5:a:114:ILE:O	5:a:117:GLN:HG2	2.16	0.45
5:a:447:GLY:HA3	22:a:835:CLA:HAB	1.99	0.45
5:a:502:ALA:HB2	5:a:516:MET:HE2	1.97	0.45
5:a:665:ILE:HG23	22:a:809:CLA:H171	1.99	0.45
5:a:686:TYR:CE1	6:b:538:LYS:HD2	2.52	0.45
6:b:50:HIS:HE1	22:b:806:CLA:H171	1.80	0.45
6:b:372:HIS:HB2	22:b:827:CLA:C1B	2.45	0.45
22:b:822:CLA:H42	10:h:62:LEU:HD11	1.97	0.45
22:b:832:CLA:H18	26:f:804:BCR:H17C	1.98	0.45
7:d:83:LYS:HG2	7:d:98:PRO:HG2	1.97	0.45
10:h:112:ILE:O	10:h:115:GLY:N	2.49	0.45
22:h:205:CLA:HED3	22:h:205:CLA:H2A	1.97	0.45
2:8:83:CYS:HB3	2:8:177:GLY:HA3	1.97	0.45
3:7:160:PHE:HE2	19:7:304:XAT:H373	1.81	0.45
5:a:282:LEU:HD21	5:a:367:MET:HB3	1.98	0.45
5:a:342:TRP:CD1	22:a:826:CLA:H192	2.51	0.45
22:a:806:CLA:H72	26:a:848:BCR:HC8	1.98	0.45
6:b:392:PHE:CE2	26:b:845:BCR:HC42	2.51	0.45
22:b:817:CLA:H41	22:b:833:CLA:HAA2	1.98	0.45
22:b:823:CLA:HBA1	26:h:201:BCR:H16C	1.98	0.45
1:9:126:THR:OG1	1:9:129:GLU:OE2	2.34	0.45
19:7:304:XAT:H191	19:7:304:XAT:H11	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:7:308:CLA:H91	22:7:308:CLA:H112	1.67	0.45
22:1:306:CLA:H91	22:1:306:CLA:H112	1.69	0.45
5:a:71:PHE:HD1	5:a:166:MET:HE3	1.82	0.45
1:9:55:PHE:CZ	20:9:305:45D:C27	3.00	0.45
1:9:153:PHE:CG	13:l:151:PHE:HE2	2.34	0.45
19:1:302:XAT:H35	19:1:302:XAT:H401	1.72	0.45
5:a:312:GLY:HA2	22:a:823:CLA:HMD2	1.99	0.45
26:a:847:BCR:H11C	26:a:847:BCR:H341	1.84	0.45
6:b:228:TRP:HZ3	26:h:202:BCR:H363	1.81	0.45
6:b:268:LEU:HD23	6:b:271:MET:HE3	1.98	0.45
6:b:518:ASP:O	6:b:522:HIS:ND1	2.38	0.45
22:b:817:CLA:H3A	22:b:817:CLA:HBA2	1.26	0.45
3:7:78:ILE:HG12	3:7:175:LEU:HD21	1.99	0.45
6:b:26:ALA:HB1	23:b:848:DGD:O1B	2.17	0.45
6:b:419:ALA:O	6:b:423:HIS:ND1	2.40	0.45
9:f:119:GLY:HA3	9:f:160:TRP:CE2	2.51	0.45
9:f:160:TRP:CG	9:f:161:PRO:HD3	2.52	0.45
26:i:101:BCR:H15C	26:i:101:BCR:H351	1.85	0.45
12:j:30:ASN:ND2	22:j:102:CLA:O1A	2.47	0.45
5:a:25:PRO:HB2	5:a:41:TRP:HH2	1.81	0.45
22:a:854:CLA:H143	28:j:105:LMG:H142	1.97	0.45
6:b:654:PHE:O	6:b:658:VAL:HG23	2.17	0.45
10:h:107:SER:O	10:h:110:THR:OG1	2.32	0.45
1:9:80:ALA:O	1:9:84:ASN:ND2	2.49	0.45
19:7:301:XAT:H35	19:7:301:XAT:H401	1.71	0.45
19:7:303:XAT:H15	19:7:303:XAT:H201	1.78	0.45
19:7:304:XAT:H171	22:7:315:CLA:HBB1	1.99	0.45
5:a:727:LEU:HD22	22:a:842:CLA:HMA1	1.99	0.45
6:b:280:VAL:HG21	22:b:816:CLA:HAB	1.98	0.45
12:j:26:VAL:CG1	26:j:104:BCR:H403	2.47	0.45
22:9:316:CLA:H112	22:9:318:CLA:HAB	1.99	0.45
2:8:138:LEU:HB2	22:8:311:CLA:HMA1	1.99	0.45
3:7:85:MET:HE3	3:7:177:ASN:HB3	1.98	0.45
4:1:105:PRO:C	4:1:107:LYS:H	2.24	0.45
5:a:651:VAL:O	5:a:654:SER:OG	2.29	0.45
22:b:827:CLA:H143	22:b:827:CLA:H161	1.78	0.45
22:b:839:CLA:H92	22:b:839:CLA:H61	1.73	0.45
26:b:843:BCR:H15C	26:b:843:BCR:H351	1.78	0.45
22:9:316:CLA:HBB1	22:9:316:CLA:HMB3	1.99	0.44
3:7:170:MET:HE2	22:7:313:CLA:H12	1.99	0.44
4:1:89:VAL:O	4:1:93:TRP:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:818:CLA:HBA2	22:a:818:CLA:H3A	1.57	0.44
22:a:826:CLA:HMB3	22:a:826:CLA:HBB1	1.99	0.44
6:b:302:ILE:HD13	22:b:822:CLA:HMD2	1.99	0.44
6:b:605:GLN:HE21	6:b:734:LYS:HB3	1.82	0.44
10:h:112:ILE:O	10:h:113:SER:C	2.60	0.44
3:7:77:GLU:HB2	22:7:308:CLA:CHB	2.48	0.44
19:1:303:XAT:H183	22:1:308:CLA:C2B	2.47	0.44
5:a:407:VAL:HG11	5:a:564:PHE:N	2.32	0.44
22:a:833:CLA:H72	22:l:203:CLA:H12	2.00	0.44
9:f:79:ARG:O	9:f:83:SER:HB2	2.17	0.44
10:h:65:ILE:O	10:h:123:GLN:NE2	2.49	0.44
22:9:316:CLA:H71	13:l:83:LEU:HG	1.97	0.44
19:8:301:XAT:H15	19:8:301:XAT:H201	1.84	0.44
22:8:307:CLA:H122	22:8:307:CLA:H161	1.87	0.44
19:7:301:XAT:H31	19:7:301:XAT:H391	1.79	0.44
5:a:580:SER:HB2	5:a:582:TRP:H	1.82	0.44
10:h:72:PRO:CG	18:h:204:A1L1F:C56	2.95	0.44
11:i:14:VAL:O	11:i:19:PRO:HD2	2.17	0.44
3:7:112:HIS:O	3:7:116:VAL:HG13	2.18	0.44
19:7:305:XAT:H201	19:7:305:XAT:H15	1.70	0.44
5:a:304:MET:HG3	22:a:823:CLA:C3C	2.47	0.44
5:a:578:GLN:HA	5:a:583:ASP:OD2	2.18	0.44
22:b:807:CLA:H192	22:b:807:CLA:H161	1.73	0.44
1:9:93:ILE:CG1	19:9:304:XAT:H8	2.47	0.44
20:9:305:45D:H321	20:9:305:45D:H281	1.82	0.44
2:8:87:MET:SD	22:8:312:CLA:HMC3	2.57	0.44
2:8:153:ASP:OD1	19:8:303:XAT:O3	2.29	0.44
19:7:304:XAT:H31	19:7:304:XAT:H391	1.87	0.44
5:a:367:MET:HG2	5:a:500:SER:HB2	1.99	0.44
5:a:415:ASN:O	5:a:421:ASP:HB2	2.18	0.44
5:a:565:ARG:HD2	21:a:845:LHG:HC61	2.00	0.44
22:a:822:CLA:H12	22:a:825:CLA:HBA2	1.98	0.44
1:9:120:TRP:CD1	1:9:121:VAL:HG13	2.53	0.44
22:a:804:CLA:H41	22:a:841:CLA:HMC1	1.98	0.44
19:a:852:XAT:H15	19:a:852:XAT:H201	1.67	0.44
6:b:259:PHE:CZ	6:b:510:LEU:HD12	2.53	0.44
22:b:813:CLA:H143	22:b:824:CLA:H51	1.99	0.44
1:9:144:HIS:CD2	22:9:314:CLA:HBC3	2.53	0.44
2:8:47:PRO:HG2	2:8:50:LEU:HG	2.00	0.44
19:8:301:XAT:H382	22:8:312:CLA:HAC2	1.99	0.44
22:1:312:CLA:HMA2	24:1:315:SQD:H141	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a:683:GLY:HA3	6:b:571:ASP:HB2	1.99	0.44
22:a:835:CLA:H61	26:l:201:BCR:H363	1.99	0.44
6:b:172:ARG:HD2	22:b:824:CLA:OBD	2.18	0.44
22:b:805:CLA:H141	22:b:805:CLA:H162	1.67	0.44
1:9:153:PHE:CE2	13:l:155:LEU:HD22	2.53	0.44
18:9:302:A1L1F:C42	22:9:311:CLA:O1A	2.66	0.44
4:1:156:ASP:OD2	13:l:2:VAL:N	2.51	0.44
5:a:84:MET:SD	22:a:829:CLA:HED1	2.58	0.44
6:b:201:ARG:HG2	6:b:248:SER:HB2	1.99	0.44
6:b:343:THR:HG23	6:b:377:ALA:HB2	1.99	0.44
22:b:809:CLA:H142	22:b:809:CLA:H111	1.70	0.44
19:j:101:XAT:H15	19:j:101:XAT:H201	1.82	0.44
13:l:116:VAL:HG11	13:l:128:LEU:C	2.42	0.44
16:c:25:VAL:HG21	16:c:48:CYS:HA	1.99	0.44
1:9:207:VAL:HG21	22:9:308:CLA:H191	1.99	0.44
19:9:303:XAT:H15	19:9:303:XAT:H201	1.71	0.44
2:8:72:LEU:HD13	22:8:307:CLA:HED1	1.99	0.44
22:8:307:CLA:H203	22:8:307:CLA:H162	1.74	0.44
3:7:142:MET:C	3:7:144:GLU:H	2.26	0.44
22:a:820:CLA:CAD	22:a:830:CLA:H41	2.48	0.44
22:b:835:CLA:H12	22:b:836:CLA:O1A	2.18	0.44
20:9:305:45D:H411	20:9:305:45D:H393	1.81	0.43
4:1:141:ARG:HD3	4:1:149:TRP:HB3	1.99	0.43
5:a:532:HIS:CE1	5:a:599:VAL:HA	2.53	0.43
5:a:701:LEU:HD12	22:a:841:CLA:HMA2	2.00	0.43
6:b:424:LEU:HG	22:b:837:CLA:CBB	2.48	0.43
6:b:647:VAL:HG21	22:b:809:CLA:HAC1	2.00	0.43
12:j:14:LEU:HD23	12:j:14:LEU:HA	1.84	0.43
22:9:314:CLA:H2A	22:9:314:CLA:O2D	2.17	0.43
4:1:152:VAL:HG11	4:1:159:TRP:CD1	2.53	0.43
6:b:274:HIS:HB2	22:b:817:CLA:CHB	2.49	0.43
4:1:95:PRO:HD2	22:1:308:CLA:HMD3	1.99	0.43
5:a:517:MET:HE2	5:a:611:VAL:HA	2.00	0.43
22:a:807:CLA:H102	22:a:807:CLA:H161	2.00	0.43
22:a:828:CLA:H61	22:a:828:CLA:H2	1.79	0.43
22:a:829:CLA:H91	22:a:831:CLA:H192	2.00	0.43
6:b:547:LYS:NZ	8:e:15:SER:O	2.45	0.43
6:b:699:PRO:O	16:c:81:TYR:OH	2.34	0.43
22:j:103:CLA:O1D	22:j:103:CLA:H2A	2.18	0.43
5:a:73:GLN:HG2	22:a:806:CLA:H3A	2.00	0.43
22:a:832:CLA:HBA1	22:a:832:CLA:H3A	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:828:CLA:H3A	22:b:828:CLA:HBA2	1.76	0.43
21:9:307:LHG:H352	11:i:16:LEU:HD22	1.99	0.43
5:a:52:PHE:CD2	22:a:806:CLA:HMC2	2.53	0.43
5:a:364:MET:HE1	22:a:830:CLA:CAD	2.49	0.43
22:b:840:CLA:H141	22:b:840:CLA:H161	1.74	0.43
26:b:842:BCR:H11C	26:b:842:BCR:H341	1.74	0.43
16:c:59:PRO:HD2	27:c:102:SF4:S2	2.58	0.43
1:9:86:ARG:NE	1:9:192:GLU:OE2	2.36	0.43
5:a:75:ALA:HB2	5:a:166:MET:HB2	2.01	0.43
6:b:140:LEU:HD23	6:b:143:LEU:HD12	2.01	0.43
6:b:207:TRP:HE1	22:b:814:CLA:H11	1.84	0.43
22:b:837:CLA:H101	22:b:837:CLA:H13	1.78	0.43
26:b:844:BCR:H351	26:b:844:BCR:H15C	1.78	0.43
7:d:20:TRP:HB2	7:d:24:ALA:HB3	1.99	0.43
26:f:804:BCR:H24C	26:f:804:BCR:H371	1.83	0.43
19:9:304:XAT:H35	19:9:304:XAT:H401	1.86	0.43
3:7:185:PHE:CE1	19:7:303:XAT:H162	2.53	0.43
4:1:171:ARG:HA	4:1:174:MET:HE3	2.00	0.43
5:a:442:GLY:HA3	22:b:804:CLA:O1A	2.18	0.43
22:a:807:CLA:H43	21:a:845:LHG:H252	2.00	0.43
22:a:839:CLA:H161	22:a:839:CLA:H141	1.68	0.43
22:b:802:CLA:H122	22:b:802:CLA:H162	1.61	0.43
22:b:816:CLA:CHD	22:b:817:CLA:HBB2	2.49	0.43
22:b:838:CLA:H161	13:l:92:LEU:HD21	1.99	0.43
5:a:466:SER:HG	5:a:631:GLN:HE22	1.61	0.43
22:a:803:CLA:O1A	22:a:803:CLA:H3A	2.19	0.43
22:a:822:CLA:OBD	22:a:824:CLA:HMD3	2.19	0.43
22:a:840:CLA:H72	26:a:850:BCR:H373	2.01	0.43
6:b:220:LEU:HD21	26:b:842:BCR:H391	2.01	0.43
7:d:81:ASN:H	7:d:81:ASN:ND2	2.16	0.43
19:9:303:XAT:H7	22:9:309:CLA:HAB	2.01	0.43
3:7:36:LYS:HB2	3:7:45:ARG:H	1.83	0.43
4:1:128:GLU:HG3	19:1:302:XAT:H372	2.01	0.43
4:1:151:TRP:CH2	13:l:20:PRO:HA	2.54	0.43
5:a:88:GLY:O	5:a:92:SER:OG	2.27	0.43
5:a:357:SER:HB2	22:a:830:CLA:HMC2	2.01	0.43
22:a:835:CLA:H141	22:a:835:CLA:H161	1.84	0.43
22:b:813:CLA:H141	22:b:813:CLA:H161	1.77	0.43
22:b:814:CLA:H2	22:b:814:CLA:H61	1.77	0.43
22:b:816:CLA:C9	10:h:105:LEU:HG	2.49	0.43
7:d:32:ILE:HG21	7:d:70:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:j:104:BCR:H15C	26:j:104:BCR:H351	1.78	0.43
16:c:54:CYS:SG	16:c:55:GLU:N	2.91	0.43
4:1:144:ASP:OD2	4:1:148:THR:OG1	2.23	0.43
5:a:567:PRO:HB3	5:a:714:ILE:HB	2.00	0.43
5:a:684:ARG:NH1	5:a:711:ALA:O	2.52	0.43
22:a:810:CLA:HBB1	26:j:104:BCR:H23C	2.00	0.43
22:a:834:CLA:H142	26:b:846:BCR:H17C	2.01	0.43
22:a:844:CLA:C1C	21:a:846:LHG:HC31	2.48	0.43
6:b:345:LEU:CD1	22:b:826:CLA:HAA1	2.49	0.43
22:b:813:CLA:H161	22:b:813:CLA:H192	1.76	0.43
22:b:824:CLA:H52	22:b:824:CLA:H12	1.85	0.43
22:b:839:CLA:HBA1	22:b:839:CLA:H3A	1.59	0.43
7:d:107:VAL:HG21	16:c:38:GLN:HB3	2.01	0.43
22:9:318:CLA:HMC2	11:i:17:VAL:HG21	2.01	0.42
2:8:47:PRO:HG3	2:8:61:ASP:HB3	2.01	0.42
3:7:81:CYS:SG	3:7:175:LEU:HD23	2.59	0.42
5:a:271:PHE:HE2	5:a:495:ALA:HB2	1.84	0.42
5:a:692:GLU:CD	6:b:547:LYS:HB2	2.44	0.42
26:a:849:BCR:H24C	26:a:849:BCR:H371	1.86	0.42
6:b:440:VAL:HG12	22:j:102:CLA:HAC1	2.01	0.42
22:b:814:CLA:CHA	22:b:814:CLA:HBA1	2.49	0.42
19:8:303:XAT:C34	22:8:313:CLA:HBB1	2.49	0.42
9:f:114:PHE:HB2	26:f:801:BCR:C32	2.49	0.42
13:l:96:LEU:HG	26:l:205:BCR:H24C	2.01	0.42
1:9:217:ILE:HG21	22:9:314:CLA:HHB	2.01	0.42
1:9:222:ASP:OD1	1:9:227:GLY:HA2	2.19	0.42
3:7:71:SER:HB3	3:7:142:MET:CE	2.49	0.42
24:1:315:SQD:H311	24:1:315:SQD:H282	1.84	0.42
5:a:194:HIS:HE1	22:a:826:CLA:H72	1.83	0.42
5:a:194:HIS:ND1	22:a:826:CLA:OBD	2.48	0.42
5:a:361:ALA:HB2	5:a:387:HIS:HB2	2.01	0.42
22:a:806:CLA:H162	22:a:806:CLA:H141	1.59	0.42
6:b:172:ARG:HB2	22:b:813:CLA:HBC2	2.00	0.42
6:b:529:LEU:HD23	6:b:588:THR:HG21	2.00	0.42
8:e:16:TYR:CD2	8:e:44:ASN:HA	2.54	0.42
9:f:153:ILE:O	9:f:156:SER:OG	2.31	0.42
1:9:91:GLY:HA3	19:9:303:XAT:O4	2.19	0.42
19:7:304:XAT:H30	22:7:313:CLA:H71	2.01	0.42
22:a:816:CLA:C4B	19:a:852:XAT:H242	2.50	0.42
6:b:526:ALA:HB2	22:b:836:CLA:HMA1	2.00	0.42
6:b:597:HIS:CE1	6:b:727:VAL:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:j:104:BCR:H341	26:j:104:BCR:H11C	1.72	0.42
13:l:53:THR:HG22	22:l:202:CLA:C1B	2.49	0.42
22:9:318:CLA:H111	22:9:318:CLA:H142	1.61	0.42
2:8:184:ILE:HG21	19:8:302:XAT:H12	2.01	0.42
22:a:823:CLA:CHD	19:a:852:XAT:H183	2.49	0.42
6:b:702:LEU:HD22	6:b:706:GLN:NE2	2.35	0.42
26:b:849:BCR:H11C	26:b:849:BCR:H341	1.73	0.42
12:j:14:LEU:CD2	28:j:105:LMG:H141	2.49	0.42
13:l:75:LEU:HD23	13:l:75:LEU:HA	1.89	0.42
1:9:198:VAL:HG12	19:9:304:XAT:H34	2.01	0.42
2:8:172:LYS:HD3	22:8:313:CLA:HAA2	2.01	0.42
22:1:310:CLA:H92	22:1:310:CLA:H61	1.73	0.42
5:a:427:ARG:NH2	7:d:46:THR:O	2.53	0.42
22:a:806:CLA:H72	26:a:848:BCR:C8	2.50	0.42
26:l:201:BCR:H352	22:l:203:CLA:HAB	2.02	0.42
1:9:204:VAL:HG22	22:9:308:CLA:H203	2.01	0.42
19:8:302:XAT:H191	19:8:302:XAT:H11	1.71	0.42
3:7:174:GLU:HB2	22:7:313:CLA:C1B	2.50	0.42
5:a:290:HIS:O	5:a:294:ILE:HG12	2.20	0.42
5:a:399:ALA:HB1	5:a:543:LEU:HB3	2.02	0.42
5:a:555:LEU:HD11	6:b:674:GLN:HB3	2.01	0.42
22:a:805:CLA:HBA1	22:a:805:CLA:H3A	1.88	0.42
7:d:70:LEU:O	7:d:74:LEU:HG	2.19	0.42
7:d:88:TYR:HB3	7:d:89:PRO:HD2	2.01	0.42
1:9:217:ILE:HB	22:9:314:CLA:H3A	2.02	0.42
17:7:302:A1L1G:O9	22:7:311:CLA:O1A	2.37	0.42
5:a:680:LEU:HB3	6:b:667:ILE:HG12	2.02	0.42
22:a:840:CLA:H152	22:a:840:CLA:H112	1.80	0.42
6:b:56:ILE:HD11	26:m:101:BCR:HC7	2.02	0.42
6:b:347:ALA:HB3	6:b:374:GLN:HE21	1.85	0.42
6:b:676:LEU:O	6:b:679:THR:OG1	2.33	0.42
22:b:802:CLA:H93	22:b:802:CLA:H112	1.70	0.42
28:j:105:LMG:H122	28:j:105:LMG:H151	1.56	0.42
1:9:120:TRP:HB3	6:b:94:PRO:HA	2.02	0.42
1:9:173:ASP:O	1:9:174:GLU:C	2.63	0.42
19:9:303:XAT:H35	19:9:303:XAT:H401	1.85	0.42
21:9:317:LHG:H312	14:m:22:ILE:HD12	2.02	0.42
2:8:42:PRO:HB2	3:7:154:LYS:HB2	2.01	0.42
19:7:303:XAT:C36	22:7:308:CLA:H2	2.49	0.42
4:1:168:ASN:HA	4:1:171:ARG:HD2	2.01	0.42
4:1:171:ARG:HA	4:1:174:MET:CE	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a:342:TRP:HB3	22:a:806:CLA:HAC1	2.02	0.42
22:a:807:CLA:H92	22:a:807:CLA:H61	1.69	0.42
22:a:839:CLA:H143	22:a:839:CLA:H111	1.90	0.42
22:a:841:CLA:HED3	22:a:841:CLA:H2A	2.01	0.42
10:h:104:VAL:HG22	26:h:202:BCR:H383	2.02	0.42
11:i:29:TYR:HE1	14:m:30:ASN:HD21	1.68	0.42
26:j:104:BCR:H24C	26:j:104:BCR:H371	1.85	0.42
22:9:318:CLA:H91	22:9:318:CLA:H112	1.69	0.42
19:8:302:XAT:H31	19:8:302:XAT:H391	1.88	0.42
22:7:308:CLA:H111	22:7:308:CLA:H142	1.77	0.42
19:1:303:XAT:H31	19:1:303:XAT:H391	1.93	0.42
22:a:842:CLA:H12	25:a:843:PQN:H301	2.02	0.42
22:a:854:CLA:H111	22:a:854:CLA:H142	1.80	0.42
22:j:102:CLA:H91	22:j:102:CLA:H111	1.83	0.42
6:b:193:VAL:O	6:b:198:PRO:HD3	2.20	0.41
6:b:668:SER:OG	6:b:673:TRP:NE1	2.52	0.41
22:b:807:CLA:H62	22:b:807:CLA:H2	1.79	0.41
21:9:317:LHG:HC81	21:9:317:LHG:HC5	1.98	0.41
2:8:77:ALA:HB2	2:8:147:PRO:HB2	2.02	0.41
3:7:87:ALA:HB1	19:7:303:XAT:H161	2.01	0.41
4:1:54:PRO:HD2	19:1:303:XAT:H242	2.02	0.41
5:a:67:PHE:HE2	5:a:173:HIS:CG	2.38	0.41
5:a:299:ILE:O	5:a:303:HIS:ND1	2.53	0.41
5:a:685:GLY:N	6:b:570:CYS:O	2.48	0.41
6:b:458:GLU:OE1	9:f:94:HIS:ND1	2.46	0.41
22:b:816:CLA:CBB	26:h:202:BCR:H14C	2.50	0.41
22:b:839:CLA:H152	22:b:839:CLA:H111	1.87	0.41
1:9:153:PHE:HA	13:l:151:PHE:CE2	2.51	0.41
22:9:314:CLA:H51	22:9:314:CLA:C1C	2.50	0.41
19:8:302:XAT:H403	22:8:307:CLA:H202	2.02	0.41
22:7:307:CLA:C3D	22:7:314:CLA:HMA3	2.51	0.41
22:a:841:CLA:HAA2	22:b:831:CLA:HMB1	2.02	0.41
6:b:526:ALA:O	6:b:530:HIS:ND1	2.37	0.41
6:b:629:ASN:HA	6:b:734:LYS:HE2	2.02	0.41
6:b:682:TRP:NE1	13:l:15:GLY:O	2.43	0.41
22:b:812:CLA:H3A	22:b:812:CLA:HBA2	1.61	0.41
22:h:203:CLA:H162	22:h:203:CLA:H141	1.77	0.41
12:j:12:PRO:HB2	19:j:101:XAT:H21	2.01	0.41
1:9:73:GLY:O	1:9:77:SER:OG	2.23	0.41
4:1:58:ALA:HB1	4:1:66:LEU:HD21	2.00	0.41
22:a:801:CLA:HBD	22:a:801:CLA:HED2	1.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:826:CLA:H202	22:a:826:CLA:H162	1.79	0.41
22:a:831:CLA:H93	22:a:842:CLA:HED3	2.01	0.41
6:b:301:LEU:HB3	10:h:46:THR:HG21	2.02	0.41
6:b:431:LEU:HD11	22:b:836:CLA:HMB1	2.03	0.41
3:7:59:PHE:HE1	22:7:306:CLA:HBC3	1.85	0.41
3:7:194:LEU:HD23	3:7:194:LEU:HA	1.89	0.41
4:1:71:GLU:HG2	4:1:142:PRO:O	2.20	0.41
4:1:82:LEU:HD11	22:1:311:CLA:HBC1	2.01	0.41
4:1:147:GLY:HA2	4:1:149:TRP:CZ3	2.55	0.41
4:1:162:TYR:CE2	22:a:844:CLA:HBD	2.55	0.41
22:1:306:CLA:H3A	22:1:306:CLA:O2A	2.20	0.41
5:a:406:PHE:HE2	5:a:424:ILE:HD11	1.86	0.41
5:a:525:ASP:HA	5:a:528:VAL:HG12	2.01	0.41
19:a:852:XAT:H35	19:a:852:XAT:H401	1.85	0.41
6:b:83:LYS:HB3	6:b:83:LYS:HE3	1.85	0.41
6:b:585:MET:HE3	6:b:585:MET:HB3	1.83	0.41
6:b:626:LEU:HD22	22:b:803:CLA:HMD3	2.01	0.41
22:b:807:CLA:H161	22:b:807:CLA:H102	2.01	0.41
8:e:51:ASN:ND2	16:c:61:ASP:HB2	2.35	0.41
5:a:143:ALA:HB2	5:a:371:PRO:HD2	2.01	0.41
5:a:440:PHE:CE2	22:a:839:CLA:HAB	2.55	0.41
22:a:807:CLA:H161	22:a:807:CLA:H192	1.82	0.41
22:a:818:CLA:OBD	22:a:837:CLA:HED2	2.20	0.41
6:b:433:PHE:CZ	26:f:801:BCR:H372	2.56	0.41
22:b:837:CLA:H202	22:b:837:CLA:H162	1.88	0.41
26:b:843:BCR:H341	26:b:843:BCR:H11C	1.76	0.41
22:9:308:CLA:H61	22:9:308:CLA:H92	1.76	0.41
3:7:39:ALA:HB2	3:7:57:VAL:HG23	2.03	0.41
19:7:303:XAT:H362	22:7:308:CLA:H2	2.01	0.41
5:a:293:ALA:HB1	22:a:818:CLA:HBC2	2.03	0.41
22:a:804:CLA:C4D	12:j:12:PRO:HG3	2.50	0.41
19:a:852:XAT:H31	19:a:852:XAT:H391	1.82	0.41
19:a:852:XAT:H173	19:a:852:XAT:H3	1.83	0.41
6:b:342:ALA:HB2	22:b:824:CLA:H43	2.02	0.41
6:b:709:LEU:CD1	23:b:848:DGD:HB41	2.51	0.41
22:b:833:CLA:H122	22:b:833:CLA:H8	1.92	0.41
9:f:114:PHE:HB2	26:f:801:BCR:H321	2.02	0.41
3:7:160:PHE:CE2	19:7:304:XAT:H373	2.56	0.41
22:a:839:CLA:H62	22:a:839:CLA:H41	1.53	0.41
21:a:845:LHG:H311	21:a:845:LHG:H282	1.94	0.41
26:a:847:BCR:H15C	26:a:847:BCR:H351	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:b:381:MET:HE1	26:b:845:BCR:H352	2.01	0.41
22:b:801:CLA:H51	22:b:838:CLA:H102	2.01	0.41
22:b:824:CLA:H92	22:b:824:CLA:H61	1.72	0.41
22:b:839:CLA:H121	22:b:839:CLA:H8	1.92	0.41
26:b:842:BCR:H351	26:b:842:BCR:H15C	1.73	0.41
26:b:846:BCR:H15C	26:b:846:BCR:H351	1.85	0.41
1:9:138:ALA:O	1:9:142:ILE:HG12	2.20	0.41
20:9:305:45D:H092	20:9:305:45D:H121	1.85	0.41
22:7:307:CLA:CAD	22:7:314:CLA:HMA3	2.51	0.41
19:1:302:XAT:H11	19:1:302:XAT:H191	1.85	0.41
5:a:215:LEU:HD23	5:a:215:LEU:HA	1.88	0.41
5:a:272:LYS:HG2	5:a:496:LEU:HD12	2.02	0.41
5:a:356:LEU:HB2	22:a:828:CLA:H41	2.02	0.41
5:a:632:SER:O	5:a:638:GLY:HA3	2.21	0.41
22:a:803:CLA:H111	22:a:803:CLA:H72	1.96	0.41
22:a:809:CLA:H3A	22:a:809:CLA:HBA2	1.67	0.41
22:a:844:CLA:H162	22:a:844:CLA:H122	1.90	0.41
6:b:197:ILE:HB	6:b:198:PRO:HD3	2.02	0.41
6:b:314:GLY:HA3	6:b:412:ARG:HD2	2.02	0.41
6:b:500:LEU:HA	6:b:503:ILE:HG22	2.02	0.41
22:b:801:CLA:H52	22:b:801:CLA:H12	1.85	0.41
22:b:808:CLA:H162	22:b:808:CLA:H122	1.79	0.41
22:b:824:CLA:H62	22:b:824:CLA:H41	1.79	0.41
22:b:828:CLA:H61	22:b:828:CLA:H41	1.75	0.41
22:b:840:CLA:H161	22:b:840:CLA:H192	1.82	0.41
16:c:32:ASP:OD1	16:c:32:ASP:N	2.53	0.41
1:9:120:TRP:CH2	22:9:318:CLA:H43	2.56	0.41
1:9:201:LEU:HD13	22:9:308:CLA:HBC1	2.03	0.41
2:8:44:LEU:HD22	3:7:137:ILE:HG22	2.03	0.41
4:1:87:TRP:CG	4:1:180:LEU:HD13	2.56	0.41
4:1:131:GLN:O	4:1:135:LYS:HG3	2.21	0.41
22:1:311:CLA:H72	13:l:21:ILE:HG12	2.02	0.41
5:a:452:ASN:HD22	5:a:634:ILE:HB	1.85	0.41
5:a:701:LEU:HD23	5:a:701:LEU:HA	1.94	0.41
22:a:806:CLA:H161	22:a:806:CLA:H202	1.70	0.41
22:a:806:CLA:H52	26:a:848:BCR:HC8	2.03	0.41
6:b:585:MET:O	6:b:589:ILE:HG12	2.20	0.41
22:b:802:CLA:HMA1	22:b:803:CLA:H161	2.02	0.41
22:b:809:CLA:H143	22:b:809:CLA:H161	1.84	0.41
26:b:849:BCR:H15C	26:b:849:BCR:H351	1.91	0.41
7:d:27:GLU:O	7:d:89:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:f:801:BCR:H11C	26:f:801:BCR:H341	1.95	0.41
5:a:318:ILE:O	5:a:322:HIS:ND1	2.54	0.40
5:a:586:PHE:CE1	5:a:590:PHE:HE2	2.39	0.40
22:a:801:CLA:H193	22:a:801:CLA:H162	1.85	0.40
22:a:829:CLA:O1D	22:a:830:CLA:HMA1	2.21	0.40
6:b:547:LYS:HE2	9:f:180:ILE:HD11	2.03	0.40
22:b:805:CLA:HHC	22:b:807:CLA:OBD	2.22	0.40
22:b:808:CLA:H93	22:b:808:CLA:H61	1.71	0.40
18:9:302:A1L1F:C28	22:9:310:CLA:HMC1	2.51	0.40
20:9:305:45D:H403	22:9:308:CLA:HBB1	2.03	0.40
21:9:317:LHG:H291	21:9:317:LHG:H321	1.65	0.40
3:7:79:LYS:HE3	3:7:79:LYS:HB2	1.79	0.40
4:1:62:ASP:N	4:1:62:ASP:OD1	2.49	0.40
22:1:310:CLA:H62	22:1:310:CLA:H41	1.80	0.40
5:a:601:PHE:CZ	22:a:801:CLA:HED3	2.55	0.40
6:b:523:HIS:CE1	26:b:849:BCR:H322	2.56	0.40
22:b:827:CLA:H13	22:b:829:CLA:H141	2.02	0.40
22:b:835:CLA:HBB1	22:b:835:CLA:HMB1	2.02	0.40
22:f:802:CLA:H11	22:j:102:CLA:H122	2.03	0.40
2:8:90:PHE:CE1	19:8:303:XAT:H30	2.57	0.40
3:7:106:VAL:HG23	22:7:310:CLA:HED2	2.03	0.40
4:1:134:ILE:HD11	13:l:26:PHE:HA	2.03	0.40
5:a:535:THR:HB	5:a:595:SER:HB2	2.04	0.40
26:a:847:BCR:H361	26:a:847:BCR:H20C	1.80	0.40
6:b:86:PRO:HB3	6:b:119:TYR:CD2	2.57	0.40
22:b:824:CLA:H141	22:b:824:CLA:H161	1.83	0.40
19:9:303:XAT:H11	19:9:303:XAT:H191	1.84	0.40
19:8:302:XAT:H35	19:8:302:XAT:H401	1.76	0.40
19:8:302:XAT:H8	22:8:309:CLA:HBB1	2.04	0.40
19:8:303:XAT:H383	22:8:314:CLA:C3B	2.51	0.40
19:7:305:XAT:H31	19:7:305:XAT:H391	1.94	0.40
5:a:319:LEU:O	5:a:331:HIS:HB2	2.21	0.40
5:a:529:HIS:CG	22:a:839:CLA:HED2	2.56	0.40
6:b:120:GLU:OE2	6:b:362:ASN:ND2	2.39	0.40
22:b:826:CLA:HED1	26:b:845:BCR:H21C	2.02	0.40
12:j:20:THR:HG23	19:j:101:XAT:H35	2.04	0.40
13:l:54:HIS:O	13:l:58:LEU:HB2	2.22	0.40
13:l:56:TYR:CD2	13:l:161:ALA:HB2	2.56	0.40
5:a:434:LEU:HG	5:a:541:LEU:HB2	2.03	0.40
22:a:827:CLA:H193	22:a:827:CLA:H161	1.94	0.40
26:a:848:BCR:H371	26:a:848:BCR:H24C	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:802:CLA:H61	22:b:802:CLA:H41	1.78	0.40
9:f:98:ASP:OD1	9:f:98:ASP:N	2.54	0.40
9:f:167:GLU:CG	9:f:172:ASP:HB3	2.49	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	9	199/232 (86%)	182 (92%)	16 (8%)	1 (0%)	24 59
2	8	162/200 (81%)	157 (97%)	5 (3%)	0	100 100
3	7	164/202 (81%)	144 (88%)	20 (12%)	0	100 100
4	1	160/208 (77%)	149 (93%)	11 (7%)	0	100 100
5	a	737/745 (99%)	713 (97%)	23 (3%)	1 (0%)	48 79
6	b	733/737 (100%)	702 (96%)	31 (4%)	0	100 100
7	d	128/136 (94%)	113 (88%)	15 (12%)	0	100 100
8	e	59/67 (88%)	54 (92%)	5 (8%)	0	100 100
9	f	158/185 (85%)	151 (96%)	7 (4%)	0	100 100
10	h	83/128 (65%)	76 (92%)	6 (7%)	1 (1%)	10 38
11	i	32/45 (71%)	30 (94%)	2 (6%)	0	100 100
12	j	39/41 (95%)	39 (100%)	0	0	100 100
13	l	169/172 (98%)	154 (91%)	13 (8%)	2 (1%)	10 38
14	m	28/30 (93%)	27 (96%)	1 (4%)	0	100 100
16	c	78/81 (96%)	74 (95%)	4 (5%)	0	100 100
All	All	2929/3209 (91%)	2765 (94%)	159 (5%)	5 (0%)	44 75

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	9	32	THR
13	l	120	VAL
5	a	580	SER
13	l	131	ILE
10	h	90	ILE

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	9	141/167 (84%)	139 (99%)	2 (1%)	59 79
2	8	132/160 (82%)	131 (99%)	1 (1%)	73 85
3	7	122/159 (77%)	121 (99%)	1 (1%)	73 85
4	1	128/165 (78%)	128 (100%)	0	100 100
5	a	607/613 (99%)	603 (99%)	4 (1%)	76 85
6	b	599/602 (100%)	599 (100%)	0	100 100
7	d	107/113 (95%)	107 (100%)	0	100 100
8	e	56/62 (90%)	56 (100%)	0	100 100
9	f	138/162 (85%)	138 (100%)	0	100 100
10	h	71/107 (66%)	70 (99%)	1 (1%)	59 79
11	i	32/43 (74%)	32 (100%)	0	100 100
12	j	36/36 (100%)	36 (100%)	0	100 100
13	l	130/141 (92%)	130 (100%)	0	100 100
14	m	21/24 (88%)	21 (100%)	0	100 100
16	c	67/68 (98%)	67 (100%)	0	100 100
All	All	2387/2622 (91%)	2378 (100%)	9 (0%)	81 89

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	9	172	LYS
1	9	174	GLU

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Mol	Chain	Res	Type
2	8	175	LYS
3	7	95	ASP
5	a	428	ASP
5	a	448	LEU
5	a	579	VAL
5	a	580	SER
10	h	110	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	9	159	ASN
2	8	156	ASN
4	1	63	GLN
4	1	119	GLN
4	1	132	ASN
4	1	194	GLN
5	a	127	ASN
5	a	186	ASN
5	a	239	ASN
5	a	435	ASN
6	b	80	ASN
6	b	112	ASN
6	b	169	ASN
6	b	326	ASN
6	b	605	GLN
6	b	629	ASN
7	d	7	GLN
9	f	166	GLN
13	l	144	GLN

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 (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

191 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
22	CLA	8	308	-	59,63,73	1.27	8 (13%)	70,101,113	1.35	8 (11%)
22	CLA	b	833	-	69,73,73	1.18	8 (11%)	82,113,113	1.24	4 (4%)
19	XAT	9	304	-	41,47,47	0.96	2 (4%)	54,74,74	2.43	18 (33%)
20	45D	9	305	-	43,43,43	1.06	4 (9%)	54,60,60	2.18	19 (35%)
22	CLA	j	103	12	46,50,73	1.40	6 (13%)	53,85,113	1.49	4 (7%)
17	A1L1G	9	306	-	40,47,47	1.14	4 (10%)	49,71,71	1.44	7 (14%)
22	CLA	7	309	-	50,55,73	1.36	6 (12%)	58,91,113	1.37	5 (8%)
26	BCR	b	845	-	41,41,41	0.66	0	56,56,56	2.22	22 (39%)
22	CLA	a	804	-	59,63,73	1.27	7 (11%)	70,101,113	1.40	8 (11%)
22	CLA	a	828	-	69,73,73	1.16	7 (10%)	82,113,113	1.28	5 (6%)
22	CLA	b	812	-	57,61,73	1.29	8 (14%)	67,98,113	1.36	5 (7%)
18	A1L1F	9	302	-	52,59,59	1.49	6 (11%)	63,85,85	2.55	19 (30%)
22	CLA	b	830	-	45,49,73	1.41	8 (17%)	54,84,113	1.47	6 (11%)
26	BCR	i	101	-	41,41,41	0.72	0	56,56,56	2.14	13 (23%)
22	CLA	b	809	-	69,73,73	1.16	9 (13%)	82,113,113	1.33	7 (8%)
26	BCR	a	849	-	41,41,41	0.67	0	56,56,56	2.19	22 (39%)
26	BCR	a	850	-	41,41,41	0.69	0	56,56,56	2.18	14 (25%)
26	BCR	f	804	-	41,41,41	0.69	0	56,56,56	2.05	14 (25%)
22	CLA	b	817	-	63,67,73	1.23	8 (12%)	74,105,113	1.37	10 (13%)
22	CLA	a	829	-	66,70,73	1.20	7 (10%)	78,109,113	1.24	7 (8%)
26	BCR	b	849	-	41,41,41	0.70	0	56,56,56	2.05	13 (23%)
22	CLA	b	810	-	69,73,73	1.17	7 (10%)	82,113,113	1.28	7 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	CLA	a	832	-	54,58,73	1.32	8 (14%)	64,95,113	1.40	6 (9%)
22	CLA	a	812	22	66,70,73	1.19	6 (9%)	78,109,113	1.30	5 (6%)
19	XAT	9	303	-	41,47,47	0.95	2 (4%)	54,74,74	2.62	20 (37%)
22	CLA	1	307	-	58,62,73	1.28	8 (13%)	68,99,113	1.35	6 (8%)
22	CLA	b	804	-	69,73,73	1.14	8 (11%)	82,113,113	1.42	7 (8%)
22	CLA	8	312	2	56,60,73	1.29	7 (12%)	65,97,113	1.38	5 (7%)
22	CLA	b	839	-	69,73,73	1.18	6 (8%)	82,113,113	1.31	6 (7%)
22	CLA	a	825	-	59,63,73	1.26	6 (10%)	70,101,113	1.33	5 (7%)
22	CLA	b	805	-	69,73,73	1.17	6 (8%)	82,113,113	1.27	6 (7%)
22	CLA	b	814	-	59,63,73	1.27	6 (10%)	70,101,113	1.41	7 (10%)
22	CLA	8	307	2	69,73,73	1.17	6 (8%)	82,113,113	1.25	6 (7%)
22	CLA	a	834	-	69,73,73	1.18	6 (8%)	82,113,113	1.26	6 (7%)
22	CLA	h	203	-	69,73,73	1.18	7 (10%)	82,113,113	1.33	6 (7%)
21	LHG	a	846	22	26,26,48	1.30	5 (19%)	29,32,54	1.18	2 (6%)
22	CLA	a	815	-	49,53,73	1.39	8 (16%)	58,89,113	1.41	4 (6%)
28	LMG	a	853	-	34,34,55	1.15	2 (5%)	42,42,63	1.17	3 (7%)
19	XAT	a	852	-	41,47,47	0.92	2 (4%)	54,74,74	2.71	18 (33%)
22	CLA	b	815	-	49,53,73	1.38	8 (16%)	58,89,113	1.42	4 (6%)
22	CLA	8	314	-	45,49,73	1.43	8 (17%)	54,84,113	1.48	5 (9%)
26	BCR	j	104	-	41,41,41	0.67	0	56,56,56	2.09	17 (30%)
22	CLA	7	310	-	50,54,73	1.37	7 (14%)	59,90,113	1.40	4 (6%)
22	CLA	a	823	-	53,57,73	1.32	7 (13%)	61,93,113	1.42	6 (9%)
22	CLA	a	841	-	69,73,73	1.16	8 (11%)	82,113,113	1.31	6 (7%)
22	CLA	7	306	3	52,56,73	1.35	7 (13%)	61,92,113	1.38	5 (8%)
22	CLA	a	839	-	69,73,73	1.17	7 (10%)	82,113,113	1.30	6 (7%)
19	XAT	8	303	-	41,47,47	0.87	2 (4%)	54,74,74	2.66	18 (33%)
22	CLA	b	818	-	64,68,73	1.22	8 (12%)	76,107,113	1.27	5 (6%)
26	BCR	h	201	-	41,41,41	0.66	0	56,56,56	2.00	21 (37%)
22	CLA	a	822	-	69,73,73	1.18	8 (11%)	82,113,113	1.27	5 (6%)
22	CLA	a	838	-	55,59,73	1.30	7 (12%)	64,96,113	1.41	6 (9%)
22	CLA	a	816	-	54,58,73	1.32	7 (12%)	64,95,113	1.41	7 (10%)
22	CLA	a	827	-	69,73,73	1.17	7 (10%)	82,113,113	1.33	7 (8%)
22	CLA	1	306	-	69,73,73	1.17	7 (10%)	82,113,113	1.29	7 (8%)
22	CLA	a	801	-	69,73,73	1.19	9 (13%)	82,113,113	1.28	5 (6%)
22	CLA	7	307	-	49,53,73	1.39	8 (16%)	58,89,113	1.41	4 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	CLA	8	305	2	47,51,73	1.38	7 (14%)	55,86,113	1.44	6 (10%)
22	CLA	a	807	-	69,73,73	1.16	7 (10%)	82,113,113	1.27	6 (7%)
22	CLA	a	814	-	69,73,73	1.18	7 (10%)	82,113,113	1.27	6 (7%)
22	CLA	9	311	-	50,54,73	1.36	6 (12%)	59,90,113	1.46	5 (8%)
22	CLA	a	819	-	58,62,73	1.27	8 (13%)	68,99,113	1.33	5 (7%)
22	CLA	a	831	-	69,73,73	1.18	8 (11%)	82,113,113	1.33	8 (9%)
22	CLA	1	313	-	45,49,73	1.41	8 (17%)	54,84,113	1.48	5 (9%)
22	CLA	9	314	-	59,63,73	1.27	8 (13%)	70,101,113	1.34	6 (8%)
22	CLA	7	316	-	55,59,73	1.31	7 (12%)	64,96,113	1.44	7 (10%)
22	CLA	b	831	-	53,57,73	1.33	6 (11%)	61,93,113	1.39	5 (8%)
22	CLA	b	834	-	57,61,73	1.31	8 (14%)	67,98,113	1.37	6 (8%)
22	CLA	a	803	-	69,73,73	1.16	8 (11%)	82,113,113	1.21	5 (6%)
22	CLA	j	102	-	62,66,73	1.24	7 (11%)	73,104,113	1.29	5 (6%)
26	BCR	l	205	-	41,41,41	0.66	0	56,56,56	2.04	15 (26%)
22	CLA	a	820	-	69,73,73	1.18	7 (10%)	82,113,113	1.31	7 (8%)
22	CLA	b	803	-	69,73,73	1.16	7 (10%)	82,113,113	1.25	6 (7%)
22	CLA	a	805	22	59,63,73	1.26	6 (10%)	70,101,113	1.36	6 (8%)
22	CLA	1	308	4	69,73,73	1.16	6 (8%)	82,113,113	1.29	6 (7%)
22	CLA	b	813	-	69,73,73	1.18	8 (11%)	82,113,113	1.26	6 (7%)
19	XAT	8	302	-	41,47,47	0.95	2 (4%)	54,74,74	2.67	18 (33%)
22	CLA	a	809	5	69,73,73	1.15	7 (10%)	82,113,113	1.30	8 (9%)
27	SF4	c	102	-	0,12,12	-	-	-		
22	CLA	f	803	9	56,60,73	1.30	6 (10%)	65,97,113	1.38	5 (7%)
22	CLA	8	310	-	50,54,73	1.38	8 (16%)	59,90,113	1.38	4 (6%)
18	A1L1F	h	204	-	52,59,59	1.47	6 (11%)	63,85,85	2.59	22 (34%)
19	XAT	j	101	-	41,47,47	0.87	2 (4%)	54,74,74	2.74	19 (35%)
22	CLA	a	830	-	69,73,73	1.18	8 (11%)	82,113,113	1.26	6 (7%)
22	CLA	b	825	-	68,72,73	1.17	8 (11%)	80,111,113	1.30	7 (8%)
22	CLA	a	810	5	69,73,73	1.19	8 (11%)	82,113,113	1.32	6 (7%)
26	BCR	b	843	-	41,41,41	0.68	0	56,56,56	1.93	16 (28%)
22	CLA	b	835	-	62,66,73	1.25	7 (11%)	73,104,113	1.38	8 (10%)
22	CLA	b	808	-	69,73,73	1.16	7 (10%)	82,113,113	1.24	6 (7%)
22	CLA	l	204	-	50,54,73	1.36	9 (18%)	59,90,113	1.40	4 (6%)
22	CLA	7	314	-	49,53,73	1.41	8 (16%)	58,89,113	1.50	5 (8%)
22	CLA	a	802	-	62,66,73	1.22	9 (14%)	73,104,113	1.34	7 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	CLA	a	817	-	49,53,73	1.39	8 (16%)	58,89,113	1.43	4 (6%)
17	A1L1G	1	301	-	40,47,47	1.15	5 (12%)	49,71,71	1.46	10 (20%)
22	CLA	b	824	-	69,73,73	1.19	8 (11%)	82,113,113	1.28	5 (6%)
22	CLA	b	816	-	59,63,73	1.26	7 (11%)	70,101,113	1.32	6 (8%)
22	CLA	b	838	-	69,73,73	1.18	8 (11%)	82,113,113	1.27	6 (7%)
26	BCR	l	201	-	41,41,41	0.68	0	56,56,56	1.97	17 (30%)
22	CLA	8	311	-	60,64,73	1.25	7 (11%)	71,102,113	1.35	7 (9%)
22	CLA	b	801	-	69,73,73	1.18	8 (11%)	82,113,113	1.26	5 (6%)
22	CLA	9	312	-	50,54,73	1.37	7 (14%)	59,90,113	1.50	5 (8%)
19	XAT	8	301	-	41,47,47	0.91	2 (4%)	54,74,74	2.55	18 (33%)
22	CLA	b	829	-	69,73,73	1.20	9 (13%)	82,113,113	1.30	9 (10%)
17	A1L1G	9	301	-	40,47,47	1.16	5 (12%)	49,71,71	1.48	9 (18%)
26	BCR	b	844	-	41,41,41	0.66	0	56,56,56	2.10	15 (26%)
22	CLA	a	844	21	69,73,73	1.17	6 (8%)	82,113,113	1.26	8 (9%)
21	LHG	9	317	-	45,45,48	1.19	6 (13%)	48,51,54	0.96	2 (4%)
22	CLA	8	309	-	61,65,73	1.25	7 (11%)	72,103,113	1.33	6 (8%)
22	CLA	1	309	4	50,54,73	1.37	8 (16%)	59,90,113	1.33	4 (6%)
22	CLA	b	822	-	64,68,73	1.20	7 (10%)	76,107,113	1.25	5 (6%)
22	CLA	9	309	1	50,54,73	1.36	9 (18%)	59,90,113	1.36	5 (8%)
19	XAT	7	305	-	41,47,47	0.86	2 (4%)	54,74,74	2.65	19 (35%)
22	CLA	7	312	-	52,56,73	1.34	7 (13%)	61,92,113	1.40	5 (8%)
28	LMG	j	105	-	32,32,55	1.13	2 (6%)	40,40,63	1.15	4 (10%)
22	CLA	1	305	-	65,69,73	1.21	7 (10%)	77,108,113	1.28	4 (5%)
22	CLA	9	308	1	69,73,73	1.17	9 (13%)	82,113,113	1.30	6 (7%)
22	CLA	a	836	-	54,58,73	1.32	7 (12%)	64,95,113	1.37	6 (9%)
22	CLA	a	818	-	60,64,73	1.27	7 (11%)	71,102,113	1.32	7 (9%)
26	BCR	b	842	-	41,41,41	0.64	0	56,56,56	2.31	21 (37%)
22	CLA	b	836	-	69,73,73	1.16	7 (10%)	82,113,113	1.29	6 (7%)
22	CLA	a	840	-	69,73,73	1.19	8 (11%)	82,113,113	1.26	6 (7%)
22	CLA	b	807	-	69,73,73	1.17	7 (10%)	82,113,113	1.28	7 (8%)
22	CLA	b	802	-	69,73,73	1.17	6 (8%)	82,113,113	1.18	4 (4%)
19	XAT	7	303	-	41,47,47	1.00	2 (4%)	54,74,74	2.60	18 (33%)
22	CLA	b	840	21	69,73,73	1.19	7 (10%)	82,113,113	1.26	6 (7%)
22	CLA	a	811	-	60,64,73	1.26	7 (11%)	71,102,113	1.34	6 (8%)
22	CLA	b	811	-	58,62,73	1.35	9 (15%)	71,100,113	1.34	6 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
19	XAT	1	303	-	41,47,47	0.90	2 (4%)	54,74,74	2.54	19 (35%)
22	CLA	b	828	-	69,73,73	1.18	8 (11%)	82,113,113	1.20	5 (6%)
22	CLA	8	313	-	50,54,73	1.37	8 (16%)	59,90,113	1.39	4 (6%)
22	CLA	b	820	-	54,58,73	1.31	8 (14%)	64,95,113	1.43	7 (10%)
24	SQD	1	315	-	43,45,54	1.22	3 (6%)	53,56,65	1.13	2 (3%)
22	CLA	h	205	-	59,63,73	1.28	9 (15%)	70,101,113	1.35	7 (10%)
26	BCR	a	848	-	41,41,41	0.68	0	56,56,56	1.95	18 (32%)
22	CLA	7	308	-	64,68,73	1.21	7 (10%)	76,107,113	1.29	6 (7%)
22	CLA	7	317	-	49,53,73	1.39	6 (12%)	58,89,113	1.44	4 (6%)
22	CLA	a	824	-	50,54,73	1.37	8 (16%)	59,90,113	1.36	4 (6%)
22	CLA	l	202	-	46,50,73	1.41	8 (17%)	53,85,113	1.45	4 (7%)
22	CLA	a	813	-	58,62,73	1.28	8 (13%)	68,99,113	1.31	4 (5%)
22	CLA	a	842	-	69,73,73	1.18	8 (11%)	82,113,113	1.26	6 (7%)
22	CLA	7	311	-	50,54,73	1.38	8 (16%)	59,90,113	1.40	5 (8%)
22	CLA	9	316	-	69,73,73	1.16	7 (10%)	82,113,113	1.30	7 (8%)
22	CLA	b	827	-	69,73,73	1.17	8 (11%)	82,113,113	1.26	6 (7%)
21	LHG	b	847	22	30,30,48	1.38	6 (20%)	33,36,54	1.16	2 (6%)
22	CLA	1	311	-	57,61,73	1.29	8 (14%)	67,98,113	1.36	7 (10%)
22	CLA	b	832	-	69,73,73	1.17	7 (10%)	82,113,113	1.27	6 (7%)
22	CLA	9	313	1	50,54,73	1.37	5 (10%)	59,90,113	1.47	4 (6%)
26	BCR	f	801	-	41,41,41	0.65	0	56,56,56	2.16	16 (28%)
21	LHG	a	845	-	47,47,48	1.16	6 (12%)	50,53,54	0.98	2 (4%)
17	A1L1G	7	302	-	40,47,47	1.15	3 (7%)	49,71,71	1.40	8 (16%)
22	CLA	a	854	-	69,73,73	1.17	7 (10%)	82,113,113	1.25	6 (7%)
22	CLA	b	823	-	57,61,73	1.29	8 (14%)	67,98,113	1.34	6 (8%)
21	LHG	9	307	-	35,35,48	1.27	6 (17%)	38,41,54	0.91	2 (5%)
22	CLA	9	315	1	46,50,73	1.39	6 (13%)	53,85,113	1.41	4 (7%)
22	CLA	9	310	-	50,54,73	1.37	7 (14%)	59,90,113	1.49	4 (6%)
19	XAT	1	302	-	41,47,47	0.91	2 (4%)	54,74,74	2.61	18 (33%)
18	A1L1F	1	304	-	52,59,59	1.41	6 (11%)	63,85,85	2.26	18 (28%)
22	CLA	f	802	-	69,73,73	1.18	7 (10%)	82,113,113	1.27	6 (7%)
22	CLA	a	826	-	69,73,73	1.17	7 (10%)	82,113,113	1.31	7 (8%)
23	DGD	b	848	-	58,58,67	1.13	5 (8%)	72,72,81	1.50	10 (13%)
27	SF4	c	101	-	0,12,12	-	-	-		
22	CLA	b	826	-	69,73,73	1.17	7 (10%)	82,113,113	1.24	5 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	CLA	8	306	23	50,54,73	1.36	7 (14%)	59,90,113	1.39	4 (6%)
22	CLA	1	312	4	56,60,73	1.32	7 (12%)	65,97,113	1.36	5 (7%)
22	CLA	b	806	-	69,73,73	1.17	5 (7%)	82,113,113	1.29	6 (7%)
22	CLA	a	808	-	55,59,73	1.33	8 (14%)	64,96,113	1.38	5 (7%)
22	CLA	a	837	5	49,53,73	1.39	8 (16%)	58,89,113	1.42	4 (6%)
22	CLA	7	313	-	58,62,73	1.30	7 (12%)	68,99,113	1.35	6 (8%)
22	CLA	b	819	-	59,63,73	1.27	8 (13%)	70,101,113	1.32	6 (8%)
19	XAT	7	304	-	41,47,47	0.94	2 (4%)	54,74,74	2.67	17 (31%)
22	CLA	b	837	-	69,73,73	1.17	7 (10%)	82,113,113	1.22	6 (7%)
22	CLA	7	315	3	45,49,73	1.42	8 (17%)	54,84,113	1.48	5 (9%)
22	CLA	a	835	-	69,73,73	1.16	8 (11%)	82,113,113	1.30	6 (7%)
22	CLA	1	314	-	49,53,73	1.39	7 (14%)	58,89,113	1.41	4 (6%)
22	CLA	b	821	-	55,59,73	1.30	7 (12%)	64,96,113	1.41	7 (10%)
23	DGD	8	315	22	41,41,67	1.06	2 (4%)	55,55,81	1.12	5 (9%)
27	SF4	a	851	-	0,12,12	-	-	-		
22	CLA	9	318	-	66,70,73	1.21	8 (12%)	78,109,113	1.27	6 (7%)
25	PQN	a	843	-	34,34,34	1.62	2 (5%)	43,45,45	1.16	4 (9%)
25	PQN	b	841	-	34,34,34	1.58	2 (5%)	43,45,45	1.23	5 (11%)
22	CLA	l	203	-	64,68,73	1.21	9 (14%)	76,107,113	1.34	5 (6%)
22	CLA	a	821	-	49,53,73	1.40	9 (18%)	58,89,113	1.47	4 (6%)
18	A1L1F	8	304	-	52,59,59	1.40	5 (9%)	63,85,85	2.75	23 (36%)
19	XAT	7	301	-	41,47,47	0.93	2 (4%)	54,74,74	2.63	19 (35%)
26	BCR	a	847	-	41,41,41	0.68	0	56,56,56	1.95	17 (30%)
26	BCR	b	846	-	41,41,41	0.69	0	56,56,56	1.81	14 (25%)
22	CLA	a	833	-	59,63,73	1.24	6 (10%)	70,101,113	1.40	8 (11%)
26	BCR	h	202	-	41,41,41	0.67	0	56,56,56	1.90	17 (30%)
22	CLA	a	806	-	69,73,73	1.21	11 (15%)	82,113,113	1.55	12 (14%)
22	CLA	1	310	4	69,73,73	1.18	8 (11%)	82,113,113	1.22	5 (6%)
26	BCR	m	101	-	41,41,41	1.19	2 (4%)	56,56,56	1.25	6 (10%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	8	308	-	1/1/13/20	7/27/103/115	-
22	CLA	b	833	-	1/1/15/20	13/39/115/115	-
19	XAT	9	304	-	-	1/31/93/93	0/4/4/4
20	45D	9	305	-	-	7/29/69/69	0/2/2/2
22	CLA	j	103	12	1/1/10/20	7/12/88/115	-
22	CLA	7	309	-	1/1/11/20	5/17/93/115	-
17	A1L1G	9	306	-	-	18/29/85/85	0/3/3/3
26	BCR	b	845	-	-	0/29/63/63	0/2/2/2
22	CLA	a	804	-	1/1/13/20	9/27/103/115	-
22	CLA	a	828	-	1/1/15/20	8/39/115/115	-
22	CLA	b	812	-	1/1/12/20	5/25/101/115	-
18	A1L1F	9	302	-	-	13/43/99/99	0/3/3/3
22	CLA	b	830	-	1/1/10/20	2/10/86/115	-
26	BCR	i	101	-	-	3/29/63/63	0/2/2/2
22	CLA	b	809	-	1/1/15/20	13/39/115/115	-
26	BCR	a	849	-	-	0/29/63/63	0/2/2/2
26	BCR	a	850	-	-	4/29/63/63	0/2/2/2
26	BCR	f	804	-	-	4/29/63/63	0/2/2/2
22	CLA	b	817	-	1/1/13/20	11/32/108/115	-
22	CLA	a	829	-	1/1/14/20	13/36/112/115	-
26	BCR	b	849	-	-	4/29/63/63	0/2/2/2
22	CLA	b	810	-	1/1/15/20	14/39/115/115	-
22	CLA	a	832	-	1/1/12/20	7/21/97/115	-
22	CLA	a	812	22	1/1/14/20	9/36/112/115	-
22	CLA	1	307	-	1/1/12/20	5/26/102/115	-
22	CLA	b	804	-	1/1/15/20	7/39/115/115	-
19	XAT	9	303	-	-	4/31/93/93	0/4/4/4
22	CLA	8	312	2	1/1/12/20	2/24/100/115	-
22	CLA	b	839	-	1/1/15/20	15/39/115/115	-
22	CLA	a	825	-	1/1/13/20	8/27/103/115	-
22	CLA	b	805	-	1/1/15/20	11/39/115/115	-
22	CLA	b	814	-	1/1/13/20	10/27/103/115	-
22	CLA	8	307	2	1/1/15/20	11/39/115/115	-
22	CLA	a	834	-	1/1/15/20	9/39/115/115	-
22	CLA	h	203	-	1/1/15/20	9/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	LHG	a	846	22	-	15/31/31/53	-
22	CLA	a	815	-	1/1/11/20	0/15/91/115	-
28	LMG	a	853	-	-	13/29/49/70	0/1/1/1
19	XAT	a	852	-	-	7/31/93/93	0/4/4/4
22	CLA	b	815	-	1/1/11/20	3/15/91/115	-
22	CLA	8	314	-	1/1/10/20	6/10/86/115	-
26	BCR	j	104	-	-	2/29/63/63	0/2/2/2
22	CLA	7	310	-	1/1/11/20	5/17/93/115	-
22	CLA	a	823	-	1/1/11/20	7/20/96/115	-
22	CLA	a	841	-	1/1/15/20	15/39/115/115	-
22	CLA	7	306	3	1/1/11/20	10/19/95/115	-
22	CLA	a	839	-	1/1/15/20	14/39/115/115	-
22	CLA	b	818	-	1/1/14/20	15/33/109/115	-
19	XAT	8	303	-	-	0/31/93/93	0/4/4/4
26	BCR	h	201	-	-	0/29/63/63	0/2/2/2
22	CLA	a	822	-	1/1/15/20	5/39/115/115	-
22	CLA	a	838	-	1/1/12/20	6/23/99/115	-
22	CLA	a	816	-	1/1/12/20	4/21/97/115	-
22	CLA	a	827	-	1/1/15/20	6/39/115/115	-
22	CLA	1	306	-	1/1/15/20	15/39/115/115	-
22	CLA	a	801	-	1/1/15/20	22/39/115/115	-
22	CLA	7	307	-	1/1/11/20	6/15/91/115	-
22	CLA	8	305	2	1/1/10/20	2/13/89/115	-
22	CLA	a	807	-	1/1/15/20	18/39/115/115	-
22	CLA	a	814	-	1/1/15/20	19/39/115/115	-
22	CLA	9	311	-	1/1/11/20	6/17/93/115	-
22	CLA	a	819	-	1/1/12/20	6/26/102/115	-
22	CLA	a	831	-	1/1/15/20	11/39/115/115	-
22	CLA	1	313	-	1/1/10/20	6/10/86/115	-
22	CLA	9	314	-	1/1/13/20	10/27/103/115	-
22	CLA	7	316	-	1/1/12/20	10/23/99/115	-
22	CLA	b	831	-	1/1/11/20	5/20/96/115	-
22	CLA	b	834	-	1/1/12/20	9/25/101/115	-
22	CLA	a	803	-	1/1/15/20	3/39/115/115	-
22	CLA	j	102	-	1/1/13/20	18/31/107/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	BCR	l	205	-	-	8/29/63/63	0/2/2/2
22	CLA	a	820	-	1/1/15/20	13/39/115/115	-
22	CLA	b	803	-	1/1/15/20	17/39/115/115	-
22	CLA	a	805	22	1/1/13/20	6/27/103/115	-
22	CLA	1	308	4	1/1/15/20	13/39/115/115	-
22	CLA	b	813	-	1/1/15/20	13/39/115/115	-
19	XAT	8	302	-	-	4/31/93/93	0/4/4/4
22	CLA	a	809	5	1/1/15/20	15/39/115/115	-
27	SF4	c	102	-	-	-	0/6/5/5
22	CLA	f	803	9	1/1/12/20	5/24/100/115	-
22	CLA	8	310	-	1/1/11/20	6/17/93/115	-
18	A1L1F	h	204	-	-	11/43/99/99	1/3/3/3
22	CLA	b	825	-	1/1/14/20	4/38/114/115	-
22	CLA	a	830	-	1/1/15/20	13/39/115/115	-
19	XAT	j	101	-	-	5/31/93/93	0/4/4/4
22	CLA	a	810	5	1/1/15/20	15/39/115/115	-
26	BCR	b	843	-	-	2/29/63/63	0/2/2/2
22	CLA	b	835	-	1/1/13/20	10/31/107/115	-
22	CLA	b	808	-	1/1/15/20	11/39/115/115	-
22	CLA	l	204	-	1/1/11/20	3/17/93/115	-
22	CLA	7	314	-	1/1/11/20	6/15/91/115	-
22	CLA	a	802	-	1/1/13/20	5/31/107/115	-
22	CLA	a	817	-	1/1/11/20	8/15/91/115	-
22	CLA	b	824	-	1/1/15/20	15/39/115/115	-
17	A1L1G	1	301	-	-	11/29/85/85	0/3/3/3
22	CLA	b	816	-	1/1/13/20	3/27/103/115	-
22	CLA	b	838	-	1/1/15/20	15/39/115/115	-
26	BCR	l	201	-	-	4/29/63/63	0/2/2/2
22	CLA	8	311	-	1/1/13/20	7/29/105/115	-
22	CLA	b	801	-	1/1/15/20	20/39/115/115	-
22	CLA	9	312	-	1/1/11/20	7/17/93/115	-
19	XAT	8	301	-	-	3/31/93/93	0/4/4/4
22	CLA	b	829	-	1/1/15/20	11/39/115/115	-
17	A1L1G	9	301	-	-	16/29/85/85	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	BCR	b	844	-	-	6/29/63/63	0/2/2/2
22	CLA	a	844	21	1/1/15/20	15/39/115/115	-
21	LHG	9	317	-	-	28/50/50/53	-
22	CLA	8	309	-	1/1/13/20	7/30/106/115	-
22	CLA	1	309	4	1/1/11/20	7/17/93/115	-
22	CLA	b	822	-	1/1/14/20	7/33/109/115	-
22	CLA	9	309	1	1/1/11/20	5/17/93/115	-
22	CLA	7	312	-	1/1/11/20	3/19/95/115	-
19	XAT	7	305	-	-	2/31/93/93	0/4/4/4
28	LMG	j	105	-	-	11/27/47/70	0/1/1/1
22	CLA	1	305	-	1/1/14/20	9/35/111/115	-
22	CLA	9	308	1	1/1/15/20	14/39/115/115	-
22	CLA	a	836	-	1/1/12/20	8/21/97/115	-
22	CLA	a	818	-	1/1/13/20	11/29/105/115	-
26	BCR	b	842	-	-	2/29/63/63	0/2/2/2
22	CLA	b	836	-	1/1/15/20	7/39/115/115	-
22	CLA	a	840	-	1/1/15/20	7/39/115/115	-
22	CLA	b	807	-	1/1/15/20	18/39/115/115	-
22	CLA	b	802	-	1/1/15/20	15/39/115/115	-
19	XAT	7	303	-	-	7/31/93/93	0/4/4/4
22	CLA	b	840	21	1/1/15/20	11/39/115/115	-
22	CLA	a	811	-	1/1/13/20	6/29/105/115	-
22	CLA	b	811	-	1/1/13/20	4/25/101/115	-
19	XAT	1	303	-	-	0/31/93/93	0/4/4/4
22	CLA	b	828	-	1/1/15/20	13/39/115/115	-
22	CLA	8	313	-	1/1/11/20	5/17/93/115	-
22	CLA	b	820	-	1/1/12/20	5/21/97/115	-
24	SQD	1	315	-	-	19/40/60/69	0/1/1/1
22	CLA	h	205	-	1/1/13/20	9/27/103/115	-
26	BCR	a	848	-	-	0/29/63/63	0/2/2/2
22	CLA	7	308	-	1/1/14/20	12/33/109/115	-
22	CLA	7	317	-	1/1/11/20	7/15/91/115	-
22	CLA	a	824	-	1/1/11/20	5/17/93/115	-
22	CLA	l	202	-	1/1/10/20	0/12/88/115	-
22	CLA	a	813	-	1/1/12/20	9/26/102/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	a	842	-	1/1/15/20	8/39/115/115	-
22	CLA	7	311	-	1/1/11/20	4/17/93/115	-
22	CLA	9	316	-	1/1/15/20	16/39/115/115	-
22	CLA	b	827	-	1/1/15/20	14/39/115/115	-
22	CLA	b	832	-	1/1/15/20	13/39/115/115	-
22	CLA	1	311	-	1/1/12/20	4/25/101/115	-
21	LHG	b	847	22	-	20/35/35/53	-
22	CLA	9	313	1	1/1/11/20	12/17/93/115	-
26	BCR	f	801	-	-	3/29/63/63	0/2/2/2
21	LHG	a	845	-	-	26/52/52/53	-
22	CLA	a	854	-	1/1/15/20	14/39/115/115	-
22	CLA	b	823	-	1/1/12/20	6/25/101/115	-
17	A1L1G	7	302	-	-	15/29/85/85	0/3/3/3
22	CLA	9	315	1	1/1/10/20	5/12/88/115	-
21	LHG	9	307	-	-	20/40/40/53	-
22	CLA	9	310	-	1/1/11/20	6/17/93/115	-
22	CLA	f	802	-	1/1/15/20	13/39/115/115	-
18	A1L1F	1	304	-	-	12/43/99/99	0/3/3/3
19	XAT	1	302	-	-	0/31/93/93	0/4/4/4
22	CLA	a	826	-	1/1/15/20	8/39/115/115	-
23	DGD	b	848	-	-	20/46/86/95	0/2/2/2
27	SF4	c	101	-	-	-	0/6/5/5
22	CLA	b	826	-	1/1/15/20	3/39/115/115	-
22	CLA	8	306	23	1/1/11/20	4/17/93/115	-
22	CLA	1	312	4	1/1/12/20	3/24/100/115	-
22	CLA	b	806	-	1/1/15/20	13/39/115/115	-
22	CLA	a	808	-	1/1/12/20	4/23/99/115	-
22	CLA	a	837	5	1/1/11/20	4/15/91/115	-
22	CLA	7	313	-	1/1/12/20	5/26/102/115	-
22	CLA	b	819	-	1/1/13/20	5/27/103/115	-
19	XAT	7	304	-	-	6/31/93/93	0/4/4/4
22	CLA	b	837	-	1/1/15/20	9/39/115/115	-
22	CLA	7	315	3	1/1/10/20	4/10/86/115	-
22	CLA	a	835	-	1/1/15/20	11/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	1	314	-	1/1/11/20	7/15/91/115	-
22	CLA	b	821	-	1/1/12/20	4/23/99/115	-
23	DGD	8	315	22	-	10/29/69/95	0/2/2/2
27	SF4	a	851	-	-	-	0/6/5/5
22	CLA	9	318	-	1/1/14/20	11/36/112/115	-
25	PQN	a	843	-	-	5/23/43/43	0/2/2/2
25	PQN	b	841	-	-	1/23/43/43	0/2/2/2
22	CLA	l	203	-	1/1/14/20	4/33/109/115	-
22	CLA	a	821	-	1/1/11/20	1/15/91/115	-
18	A1L1F	8	304	-	-	12/43/99/99	0/3/3/3
19	XAT	7	301	-	-	6/31/93/93	0/4/4/4
26	BCR	a	847	-	-	0/29/63/63	0/2/2/2
26	BCR	b	846	-	-	2/29/63/63	0/2/2/2
22	CLA	a	833	-	1/1/13/20	2/27/103/115	-
26	BCR	h	202	-	-	0/29/63/63	0/2/2/2
22	CLA	a	806	-	1/1/15/20	11/39/115/115	-
22	CLA	1	310	4	1/1/15/20	17/39/115/115	-
26	BCR	m	101	-	-	8/29/63/63	0/2/2/2

All (1118) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	a	843	PQN	C3-C2	7.72	1.49	1.35
25	b	841	PQN	C3-C2	7.47	1.48	1.35
25	a	843	PQN	C10-C5	4.96	1.48	1.40
25	b	841	PQN	C10-C5	4.92	1.48	1.40
18	9	302	A1L1F	O7-C54	4.72	1.45	1.35
18	h	204	A1L1F	O7-C54	4.72	1.45	1.35
18	8	304	A1L1F	O7-C54	4.65	1.45	1.35
18	1	304	A1L1F	O7-C54	4.62	1.45	1.35
18	9	302	A1L1F	C57-C1	-4.50	1.25	1.30
24	1	315	SQD	O8-S	4.42	1.63	1.47
18	h	204	A1L1F	C57-C1	-4.38	1.25	1.30
24	1	315	SQD	O48-C23	4.31	1.45	1.33
23	8	315	DGD	O1G-C1A	4.29	1.45	1.33
28	a	853	LMG	O8-C28	4.24	1.45	1.33
18	8	304	A1L1F	C57-C1	-4.23	1.25	1.30
18	1	304	A1L1F	O13-C45	4.20	1.45	1.33
24	1	315	SQD	O47-C7	4.19	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	1	304	A1L1F	C57-C1	-4.17	1.25	1.30
18	h	204	A1L1F	O13-C45	4.16	1.45	1.33
28	a	853	LMG	O7-C10	4.16	1.46	1.34
18	8	304	A1L1F	O13-C45	4.09	1.45	1.33
28	j	105	LMG	O8-C28	4.08	1.45	1.33
26	m	101	BCR	C1-C6	-4.01	1.48	1.53
23	b	848	DGD	O2G-C1B	4.00	1.45	1.34
23	b	848	DGD	O1G-C1A	3.96	1.44	1.33
18	8	304	A1L1F	C57-C2	-3.96	1.25	1.31
18	9	302	A1L1F	O13-C45	3.95	1.44	1.33
28	j	105	LMG	O7-C10	3.87	1.45	1.34
18	9	302	A1L1F	C57-C2	-3.85	1.25	1.31
18	h	204	A1L1F	C57-C2	-3.84	1.25	1.31
23	8	315	DGD	O2G-C1B	3.75	1.44	1.34
22	h	203	CLA	C1D-ND	3.68	1.42	1.37
22	b	840	CLA	C1D-ND	3.66	1.42	1.37
22	a	804	CLA	C1D-ND	3.66	1.42	1.37
22	9	313	CLA	C1D-ND	3.65	1.42	1.37
22	9	310	CLA	C1D-ND	3.65	1.42	1.37
22	9	312	CLA	C1D-ND	3.65	1.42	1.37
22	b	824	CLA	C1D-ND	3.64	1.42	1.37
22	b	807	CLA	C1D-ND	3.63	1.42	1.37
22	7	307	CLA	C1D-ND	3.62	1.42	1.37
22	8	308	CLA	C1D-ND	3.61	1.42	1.37
22	a	840	CLA	C1D-ND	3.61	1.42	1.37
22	8	310	CLA	C1D-ND	3.61	1.42	1.37
22	b	826	CLA	C1D-ND	3.61	1.42	1.37
22	1	312	CLA	C1D-ND	3.61	1.42	1.37
18	1	304	A1L1F	C57-C2	-3.61	1.26	1.31
22	7	317	CLA	C1D-ND	3.60	1.42	1.37
22	a	811	CLA	C1D-ND	3.60	1.42	1.37
22	7	315	CLA	C1D-ND	3.60	1.42	1.37
22	a	814	CLA	C1D-ND	3.59	1.42	1.37
22	7	313	CLA	C1D-ND	3.59	1.42	1.37
22	8	305	CLA	C1D-ND	3.59	1.42	1.37
22	b	812	CLA	C1D-ND	3.59	1.42	1.37
22	b	817	CLA	C1D-ND	3.58	1.42	1.37
22	f	802	CLA	C1D-ND	3.58	1.42	1.37
22	1	314	CLA	C1D-ND	3.58	1.42	1.37
22	7	306	CLA	C1D-ND	3.57	1.42	1.37
22	9	314	CLA	C1D-ND	3.57	1.42	1.37
22	8	314	CLA	C1D-ND	3.56	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	7	311	CLA	C1D-ND	3.56	1.42	1.37
22	b	831	CLA	C1D-ND	3.55	1.42	1.37
22	b	834	CLA	C1D-ND	3.55	1.42	1.37
22	a	837	CLA	C1D-ND	3.55	1.42	1.37
22	8	309	CLA	C1D-ND	3.55	1.42	1.37
22	7	310	CLA	C1D-ND	3.54	1.42	1.37
22	8	313	CLA	C1D-ND	3.54	1.42	1.37
22	a	829	CLA	C1D-ND	3.54	1.42	1.37
22	b	828	CLA	C1D-ND	3.54	1.42	1.37
22	1	309	CLA	C1D-ND	3.54	1.42	1.37
22	a	822	CLA	C1D-ND	3.54	1.42	1.37
22	b	833	CLA	C1D-ND	3.54	1.42	1.37
22	1	310	CLA	C1D-ND	3.54	1.42	1.37
22	a	821	CLA	C1D-ND	3.53	1.42	1.37
22	a	844	CLA	C1D-ND	3.53	1.42	1.37
22	a	807	CLA	C1D-ND	3.53	1.42	1.37
22	a	835	CLA	C1D-ND	3.53	1.42	1.37
22	a	828	CLA	C1D-ND	3.52	1.42	1.37
22	b	820	CLA	C1D-ND	3.52	1.42	1.37
22	b	818	CLA	C1D-ND	3.52	1.42	1.37
22	b	813	CLA	C1D-ND	3.51	1.42	1.37
22	b	839	CLA	C1D-ND	3.51	1.42	1.37
22	a	842	CLA	C1D-ND	3.51	1.42	1.37
22	j	103	CLA	C1D-ND	3.51	1.42	1.37
22	a	825	CLA	C1D-ND	3.51	1.42	1.37
22	7	314	CLA	C1D-ND	3.51	1.42	1.37
22	a	839	CLA	C1D-ND	3.50	1.42	1.37
22	h	205	CLA	C1D-ND	3.50	1.42	1.37
22	a	808	CLA	C1D-ND	3.50	1.42	1.37
22	a	818	CLA	C1D-ND	3.50	1.42	1.37
22	a	809	CLA	C1D-ND	3.50	1.42	1.37
22	8	307	CLA	C1D-ND	3.49	1.42	1.37
22	a	838	CLA	C1D-ND	3.49	1.42	1.37
22	b	814	CLA	C1D-ND	3.49	1.42	1.37
22	7	316	CLA	C1D-ND	3.49	1.42	1.37
22	b	816	CLA	C1D-ND	3.49	1.42	1.37
22	1	311	CLA	C1D-ND	3.49	1.42	1.37
22	a	836	CLA	C1D-ND	3.49	1.42	1.37
22	a	854	CLA	C1D-ND	3.48	1.42	1.37
22	b	835	CLA	C1D-ND	3.48	1.42	1.37
22	b	821	CLA	C1D-ND	3.48	1.42	1.37
22	a	813	CLA	C1D-ND	3.48	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	805	CLA	C1D-ND	3.48	1.42	1.37
22	b	819	CLA	C1D-ND	3.48	1.42	1.37
22	1	306	CLA	C1D-ND	3.47	1.42	1.37
22	a	816	CLA	C1D-ND	3.47	1.42	1.37
22	a	819	CLA	C1D-ND	3.47	1.42	1.37
22	b	827	CLA	C1D-ND	3.47	1.42	1.37
22	f	803	CLA	C1D-ND	3.46	1.42	1.37
22	j	102	CLA	C1D-ND	3.46	1.42	1.37
22	a	815	CLA	C1D-ND	3.46	1.42	1.37
22	a	834	CLA	C1D-ND	3.46	1.42	1.37
22	b	815	CLA	C1D-ND	3.46	1.42	1.37
22	7	309	CLA	C1D-ND	3.46	1.42	1.37
22	l	204	CLA	C1D-ND	3.45	1.42	1.37
22	1	313	CLA	C1D-ND	3.45	1.42	1.37
22	a	805	CLA	C1D-ND	3.45	1.42	1.37
22	a	826	CLA	C1D-ND	3.45	1.42	1.37
22	a	823	CLA	C1D-ND	3.45	1.42	1.37
22	a	832	CLA	C1D-ND	3.45	1.42	1.37
22	b	808	CLA	C1D-ND	3.45	1.42	1.37
22	8	311	CLA	C1D-ND	3.45	1.42	1.37
22	9	315	CLA	C1D-ND	3.45	1.42	1.37
22	1	307	CLA	C1D-ND	3.44	1.42	1.37
22	l	202	CLA	C1D-ND	3.44	1.42	1.37
22	9	316	CLA	C1D-ND	3.44	1.42	1.37
22	a	841	CLA	C1D-ND	3.44	1.42	1.37
22	1	308	CLA	C1D-ND	3.44	1.42	1.37
22	a	817	CLA	C1D-ND	3.44	1.42	1.37
22	b	829	CLA	C1D-ND	3.44	1.42	1.37
22	9	318	CLA	C1D-ND	3.44	1.42	1.37
22	a	820	CLA	C1D-ND	3.43	1.42	1.37
22	b	809	CLA	C1D-ND	3.43	1.42	1.37
22	b	838	CLA	C1D-ND	3.43	1.42	1.37
22	9	308	CLA	C1D-ND	3.43	1.42	1.37
22	1	305	CLA	C1D-ND	3.43	1.42	1.37
22	7	308	CLA	C1D-ND	3.43	1.42	1.37
22	a	827	CLA	C1D-ND	3.43	1.42	1.37
22	b	801	CLA	C1D-ND	3.42	1.42	1.37
22	b	825	CLA	C1D-ND	3.42	1.42	1.37
22	9	311	CLA	C1D-ND	3.41	1.42	1.37
22	b	810	CLA	C1D-ND	3.41	1.42	1.37
22	8	306	CLA	C1D-ND	3.41	1.42	1.37
22	7	312	CLA	C1D-ND	3.40	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	832	CLA	C1D-ND	3.40	1.42	1.37
22	a	824	CLA	C1D-ND	3.40	1.42	1.37
22	b	823	CLA	C1D-ND	3.40	1.42	1.37
22	a	803	CLA	C1D-ND	3.39	1.42	1.37
22	b	836	CLA	C1D-ND	3.39	1.42	1.37
22	b	837	CLA	C1D-ND	3.39	1.42	1.37
22	a	830	CLA	C1D-ND	3.39	1.42	1.37
22	b	822	CLA	C1D-ND	3.39	1.42	1.37
22	a	831	CLA	C1D-ND	3.38	1.42	1.37
26	m	101	BCR	C30-C25	-3.37	1.49	1.53
22	a	810	CLA	C1D-ND	3.36	1.42	1.37
22	a	812	CLA	C1D-ND	3.35	1.42	1.37
22	9	309	CLA	C1D-ND	3.35	1.42	1.37
22	b	806	CLA	C1D-ND	3.35	1.42	1.37
22	1	312	CLA	C4B-NB	3.35	1.42	1.37
22	b	802	CLA	C1D-ND	3.35	1.42	1.37
22	l	203	CLA	C1D-ND	3.35	1.42	1.37
22	8	312	CLA	C1D-ND	3.34	1.42	1.37
22	a	802	CLA	C1D-ND	3.32	1.42	1.37
22	b	811	CLA	C1D-ND	3.32	1.42	1.37
22	b	803	CLA	C1D-ND	3.31	1.42	1.37
22	a	801	CLA	C1D-ND	3.31	1.42	1.37
22	a	818	CLA	C4B-NB	3.29	1.42	1.37
21	a	845	LHG	C26-C25	-3.27	1.35	1.51
22	a	840	CLA	C4B-NB	3.26	1.42	1.37
22	a	842	CLA	C4B-NB	3.26	1.42	1.37
22	b	830	CLA	C1D-ND	3.26	1.42	1.37
21	9	317	LHG	C26-C25	-3.24	1.35	1.51
22	b	834	CLA	C4B-NB	3.22	1.42	1.37
22	8	313	CLA	C4B-NB	3.20	1.42	1.37
21	b	847	LHG	C26-C25	-3.19	1.35	1.51
22	7	313	CLA	C4B-NB	3.19	1.42	1.37
21	9	307	LHG	C26-C25	-3.19	1.35	1.51
22	a	808	CLA	C4B-NB	3.18	1.42	1.37
22	j	102	CLA	C4B-NB	3.18	1.42	1.37
22	b	829	CLA	C4B-NB	3.18	1.42	1.37
22	1	309	CLA	C4B-NB	3.17	1.42	1.37
22	b	837	CLA	C4B-NB	3.16	1.42	1.37
22	b	820	CLA	C4B-NB	3.16	1.42	1.37
22	a	817	CLA	C4B-NB	3.15	1.42	1.37
22	9	318	CLA	C4B-NB	3.15	1.42	1.37
22	8	314	CLA	C4B-NB	3.15	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	h	203	CLA	C4B-NB	3.15	1.42	1.37
22	7	311	CLA	C4B-NB	3.14	1.42	1.37
22	1	310	CLA	C4B-NB	3.14	1.42	1.37
22	b	818	CLA	C4B-NB	3.14	1.42	1.37
22	9	314	CLA	C4B-NB	3.14	1.42	1.37
22	b	828	CLA	C4B-NB	3.14	1.42	1.37
22	a	833	CLA	C1D-ND	3.13	1.42	1.37
22	b	811	CLA	CAB-C3B	-3.13	1.44	1.50
22	a	824	CLA	C4B-NB	3.13	1.42	1.37
22	b	826	CLA	C4B-NB	3.11	1.41	1.37
22	b	801	CLA	C4B-NB	3.11	1.41	1.37
22	1	305	CLA	C4B-NB	3.11	1.41	1.37
22	a	804	CLA	C4B-NB	3.10	1.41	1.37
22	a	810	CLA	C4B-NB	3.10	1.41	1.37
22	7	310	CLA	C4B-NB	3.10	1.41	1.37
22	a	805	CLA	C4B-NB	3.10	1.41	1.37
22	7	315	CLA	C4B-NB	3.09	1.41	1.37
20	9	305	45D	C04-C08	-3.09	1.49	1.53
22	a	813	CLA	C4B-NB	3.08	1.41	1.37
22	8	306	CLA	C4B-NB	3.08	1.41	1.37
22	b	839	CLA	C4B-NB	3.08	1.41	1.37
22	a	831	CLA	C4B-NB	3.08	1.41	1.37
22	8	309	CLA	C4B-NB	3.08	1.41	1.37
22	a	822	CLA	C4B-NB	3.07	1.41	1.37
22	b	802	CLA	C4B-NB	3.07	1.41	1.37
22	1	314	CLA	C4B-NB	3.07	1.41	1.37
22	a	841	CLA	C4B-NB	3.07	1.41	1.37
22	f	803	CLA	C4B-NB	3.07	1.41	1.37
22	l	202	CLA	C4B-NB	3.07	1.41	1.37
22	a	816	CLA	C4B-NB	3.06	1.41	1.37
22	b	805	CLA	C4B-NB	3.06	1.41	1.37
22	a	829	CLA	C4B-NB	3.06	1.41	1.37
22	b	816	CLA	C4B-NB	3.06	1.41	1.37
22	b	840	CLA	C4B-NB	3.06	1.41	1.37
22	8	310	CLA	C4B-NB	3.06	1.41	1.37
22	b	827	CLA	C4B-NB	3.06	1.41	1.37
22	7	309	CLA	C4B-NB	3.06	1.41	1.37
22	b	814	CLA	C4B-NB	3.06	1.41	1.37
22	7	306	CLA	C4B-NB	3.04	1.41	1.37
22	8	308	CLA	C4B-NB	3.04	1.41	1.37
22	8	312	CLA	C4B-NB	3.04	1.41	1.37
22	b	811	CLA	C4B-NB	3.03	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	9	308	CLA	C4B-NB	3.03	1.41	1.37
22	7	314	CLA	C4B-NB	3.03	1.41	1.37
22	b	822	CLA	C4B-NB	3.03	1.41	1.37
22	9	315	CLA	C4B-NB	3.03	1.41	1.37
22	a	812	CLA	C4B-NB	3.03	1.41	1.37
22	1	307	CLA	C4B-NB	3.03	1.41	1.37
22	a	821	CLA	C4B-NB	3.03	1.41	1.37
22	b	838	CLA	C4B-NB	3.03	1.41	1.37
22	a	820	CLA	C4B-NB	3.03	1.41	1.37
22	b	824	CLA	C4B-NB	3.03	1.41	1.37
22	1	313	CLA	C4B-NB	3.02	1.41	1.37
22	9	309	CLA	C4B-NB	3.02	1.41	1.37
22	7	317	CLA	C4B-NB	3.02	1.41	1.37
22	b	831	CLA	C4B-NB	3.02	1.41	1.37
22	a	854	CLA	C4B-NB	3.02	1.41	1.37
22	j	103	CLA	C4B-NB	3.02	1.41	1.37
22	7	307	CLA	C4B-NB	3.01	1.41	1.37
22	b	804	CLA	C1D-ND	3.01	1.41	1.37
22	1	308	CLA	C4B-NB	3.01	1.41	1.37
22	a	825	CLA	C4B-NB	3.01	1.41	1.37
22	a	837	CLA	C4B-NB	3.01	1.41	1.37
22	a	823	CLA	C4B-NB	3.01	1.41	1.37
22	b	819	CLA	C4B-NB	3.01	1.41	1.37
22	l	203	CLA	C4B-NB	3.01	1.41	1.37
22	a	830	CLA	C4B-NB	3.00	1.41	1.37
22	h	205	CLA	C4B-NB	2.99	1.41	1.37
22	9	310	CLA	C4B-NB	2.98	1.41	1.37
22	7	312	CLA	C4B-NB	2.98	1.41	1.37
22	9	316	CLA	C4B-NB	2.98	1.41	1.37
22	b	803	CLA	C4B-NB	2.98	1.41	1.37
22	a	839	CLA	C4B-NB	2.98	1.41	1.37
22	l	204	CLA	C4B-NB	2.98	1.41	1.37
22	1	306	CLA	C4B-NB	2.97	1.41	1.37
22	a	827	CLA	C4B-NB	2.97	1.41	1.37
22	b	810	CLA	C4B-NB	2.97	1.41	1.37
22	b	833	CLA	C4B-NB	2.97	1.41	1.37
22	9	313	CLA	C4B-NB	2.97	1.41	1.37
22	b	803	CLA	C1B-C2B	2.97	1.50	1.43
22	a	826	CLA	C4B-NB	2.97	1.41	1.37
22	a	832	CLA	C4B-NB	2.97	1.41	1.37
22	a	811	CLA	C4B-NB	2.96	1.41	1.37
22	a	833	CLA	C4B-NB	2.96	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	836	CLA	C4B-NB	2.96	1.41	1.37
22	b	815	CLA	C4B-NB	2.96	1.41	1.37
22	b	835	CLA	C4B-NB	2.96	1.41	1.37
22	b	809	CLA	C4B-NB	2.96	1.41	1.37
22	7	308	CLA	C4B-NB	2.95	1.41	1.37
22	1	311	CLA	C4B-NB	2.94	1.41	1.37
22	9	311	CLA	C4B-NB	2.94	1.41	1.37
22	f	802	CLA	C4B-NB	2.94	1.41	1.37
22	8	311	CLA	C4B-NB	2.94	1.41	1.37
22	9	312	CLA	C4B-NB	2.94	1.41	1.37
22	a	835	CLA	C4B-NB	2.94	1.41	1.37
22	b	836	CLA	C4B-NB	2.93	1.41	1.37
22	a	844	CLA	C4B-NB	2.93	1.41	1.37
22	b	832	CLA	C4B-NB	2.93	1.41	1.37
22	b	804	CLA	C4B-NB	2.93	1.41	1.37
18	h	204	A1L1F	O15-C20	-2.93	1.42	1.46
22	a	814	CLA	C4B-NB	2.93	1.41	1.37
22	b	808	CLA	C4B-NB	2.92	1.41	1.37
22	b	817	CLA	C4B-NB	2.92	1.41	1.37
22	a	815	CLA	C4B-NB	2.92	1.41	1.37
18	9	302	A1L1F	C6-C1	-2.92	1.49	1.54
22	b	823	CLA	C4B-NB	2.91	1.41	1.37
22	b	806	CLA	C4B-NB	2.91	1.41	1.37
22	b	825	CLA	C4B-NB	2.91	1.41	1.37
22	a	819	CLA	C4B-NB	2.90	1.41	1.37
22	a	834	CLA	C4B-NB	2.90	1.41	1.37
22	a	803	CLA	C4B-NB	2.90	1.41	1.37
22	b	830	CLA	C4B-NB	2.89	1.41	1.37
22	7	316	CLA	C4B-NB	2.89	1.41	1.37
22	a	838	CLA	C4B-NB	2.89	1.41	1.37
22	8	305	CLA	C4B-NB	2.89	1.41	1.37
22	b	813	CLA	C4B-NB	2.87	1.41	1.37
22	b	821	CLA	C4B-NB	2.86	1.41	1.37
22	8	307	CLA	C4B-NB	2.86	1.41	1.37
22	b	807	CLA	C4B-NB	2.85	1.41	1.37
22	a	802	CLA	C4B-NB	2.85	1.41	1.37
22	b	812	CLA	C4B-NB	2.85	1.41	1.37
22	b	839	CLA	C1B-C2B	2.84	1.49	1.43
22	a	801	CLA	C4B-NB	2.84	1.41	1.37
22	a	823	CLA	C1B-C2B	2.83	1.49	1.43
22	a	807	CLA	C4B-NB	2.83	1.41	1.37
22	1	305	CLA	C1B-C2B	2.82	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	9	301	A1L1G	C33-C34	-2.82	1.39	1.46
22	b	823	CLA	C1B-C2B	2.81	1.49	1.43
19	9	303	XAT	O4-C5	-2.80	1.42	1.46
22	b	807	CLA	C1B-C2B	2.80	1.49	1.43
22	7	308	CLA	C1B-C2B	2.80	1.49	1.43
22	7	316	CLA	C1B-C2B	2.80	1.49	1.43
22	9	316	CLA	C1B-C2B	2.80	1.49	1.43
22	8	307	CLA	C1B-C2B	2.80	1.49	1.43
22	b	832	CLA	C1B-C2B	2.79	1.49	1.43
22	a	844	CLA	C1B-C2B	2.79	1.49	1.43
22	a	821	CLA	C1B-C2B	2.79	1.49	1.43
22	1	311	CLA	C1B-C2B	2.79	1.49	1.43
22	b	821	CLA	C1B-C2B	2.78	1.49	1.43
22	a	810	CLA	C1B-C2B	2.78	1.49	1.43
22	b	820	CLA	C1B-C2B	2.78	1.49	1.43
22	7	309	CLA	C1B-C2B	2.78	1.49	1.43
22	7	312	CLA	C1B-C2B	2.78	1.49	1.43
22	b	827	CLA	C1B-C2B	2.78	1.49	1.43
22	a	830	CLA	C1B-C2B	2.78	1.49	1.43
22	1	308	CLA	C1B-C2B	2.78	1.49	1.43
22	a	826	CLA	C1B-C2B	2.77	1.49	1.43
22	7	315	CLA	C1B-C2B	2.77	1.49	1.43
22	b	808	CLA	C1B-C2B	2.77	1.49	1.43
22	a	829	CLA	C1B-C2B	2.77	1.49	1.43
22	a	817	CLA	C1B-C2B	2.76	1.49	1.43
22	a	812	CLA	C1B-C2B	2.76	1.49	1.43
22	7	310	CLA	C1B-C2B	2.76	1.49	1.43
22	a	806	CLA	MG-NB	-2.76	2.00	2.05
22	8	314	CLA	C1B-C2B	2.75	1.49	1.43
22	l	204	CLA	C1B-C2B	2.75	1.49	1.43
22	1	306	CLA	C1B-C2B	2.75	1.49	1.43
22	h	205	CLA	C1B-C2B	2.75	1.49	1.43
22	j	103	CLA	C1B-C2B	2.75	1.49	1.43
22	9	318	CLA	C1B-C2B	2.75	1.49	1.43
22	a	835	CLA	C1B-C2B	2.74	1.49	1.43
22	a	838	CLA	C1B-C2B	2.74	1.49	1.43
22	7	306	CLA	C1B-C2B	2.74	1.49	1.43
22	7	317	CLA	C1B-C2B	2.74	1.49	1.43
22	9	313	CLA	C1B-C2B	2.74	1.49	1.43
22	1	309	CLA	C1B-C2B	2.74	1.49	1.43
22	j	102	CLA	C1B-C2B	2.74	1.49	1.43
22	8	311	CLA	C1B-C2B	2.73	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	f	802	CLA	C1B-C2B	2.73	1.49	1.43
22	a	809	CLA	C4B-NB	2.73	1.41	1.37
22	9	311	CLA	C1B-C2B	2.73	1.49	1.43
22	8	305	CLA	C1B-C2B	2.73	1.49	1.43
22	1	313	CLA	C1B-C2B	2.73	1.49	1.43
22	a	828	CLA	C1B-C2B	2.73	1.49	1.43
22	a	834	CLA	C1B-C2B	2.73	1.49	1.43
22	b	833	CLA	C1B-C2B	2.73	1.49	1.43
22	a	818	CLA	C3B-C4B	2.73	1.50	1.42
22	8	309	CLA	C1B-C2B	2.73	1.49	1.43
22	9	315	CLA	C1B-C2B	2.72	1.49	1.43
22	b	811	CLA	C4B-C3B	2.72	1.49	1.43
22	b	836	CLA	C1B-C2B	2.72	1.49	1.43
22	b	840	CLA	C1B-C2B	2.72	1.49	1.43
22	a	814	CLA	C1B-C2B	2.72	1.49	1.43
22	a	828	CLA	C4B-NB	2.72	1.41	1.37
22	a	809	CLA	C1B-C2B	2.72	1.49	1.43
22	a	825	CLA	C1B-C2B	2.71	1.49	1.43
22	8	306	CLA	C1B-C2B	2.71	1.49	1.43
22	b	805	CLA	C1B-C2B	2.71	1.49	1.43
22	7	314	CLA	C1B-C2B	2.71	1.49	1.43
22	l	202	CLA	C1B-C2B	2.71	1.49	1.43
22	b	812	CLA	C1B-C2B	2.71	1.49	1.43
22	9	310	CLA	C1B-C2B	2.71	1.49	1.43
22	a	813	CLA	C1B-C2B	2.71	1.49	1.43
22	a	839	CLA	C1B-C2B	2.71	1.49	1.43
22	9	308	CLA	C1B-C2B	2.71	1.49	1.43
22	1	312	CLA	C3B-C4B	2.71	1.50	1.42
22	a	811	CLA	C1B-C2B	2.70	1.49	1.43
22	9	312	CLA	C1B-C2B	2.70	1.49	1.43
22	b	806	CLA	C1B-C2B	2.70	1.49	1.43
22	b	831	CLA	C1B-C2B	2.70	1.49	1.43
22	a	854	CLA	C1B-C2B	2.69	1.49	1.43
22	1	307	CLA	C1B-C2B	2.69	1.49	1.43
22	b	802	CLA	C1B-C2B	2.69	1.49	1.43
22	b	837	CLA	C1B-C2B	2.69	1.49	1.43
22	b	815	CLA	C1B-C2B	2.69	1.49	1.43
22	b	810	CLA	C1B-C2B	2.69	1.49	1.43
22	b	801	CLA	C1B-C2B	2.69	1.49	1.43
22	h	203	CLA	C1B-C2B	2.69	1.49	1.43
22	f	803	CLA	C1B-C2B	2.68	1.49	1.43
22	7	307	CLA	C1B-C2B	2.68	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1	314	CLA	C1B-C2B	2.68	1.49	1.43
22	a	815	CLA	C1B-C2B	2.68	1.49	1.43
22	a	842	CLA	C1B-C2B	2.68	1.49	1.43
22	a	840	CLA	C1B-C2B	2.68	1.49	1.43
22	b	811	CLA	C1B-C2B	2.68	1.49	1.43
22	a	804	CLA	C1B-C2B	2.68	1.49	1.43
22	b	822	CLA	C1B-C2B	2.68	1.49	1.43
22	a	816	CLA	C1B-C2B	2.68	1.49	1.43
22	a	837	CLA	C1B-C2B	2.68	1.49	1.43
22	a	808	CLA	C1B-C2B	2.68	1.49	1.43
22	b	809	CLA	C1B-C2B	2.68	1.49	1.43
22	b	813	CLA	C1B-C2B	2.67	1.49	1.43
22	b	829	CLA	CMB-C2B	-2.67	1.45	1.50
22	a	832	CLA	C1B-C2B	2.67	1.49	1.43
22	a	824	CLA	C1B-C2B	2.67	1.49	1.43
22	a	807	CLA	C1B-C2B	2.66	1.49	1.43
22	b	826	CLA	C1B-C2B	2.66	1.49	1.43
22	b	824	CLA	C1B-C2B	2.66	1.49	1.43
22	a	805	CLA	C1B-C2B	2.66	1.49	1.43
22	8	308	CLA	C1B-C2B	2.65	1.49	1.43
22	b	838	CLA	C1B-C2B	2.65	1.49	1.43
22	l	203	CLA	C1B-C2B	2.65	1.49	1.43
22	b	835	CLA	C1B-C2B	2.65	1.49	1.43
22	a	831	CLA	CMB-C2B	-2.65	1.45	1.50
22	a	836	CLA	C1B-C2B	2.65	1.49	1.43
18	h	204	A1L1F	C6-C1	-2.64	1.50	1.54
22	8	313	CLA	C1B-C2B	2.64	1.49	1.43
22	8	312	CLA	C1B-C2B	2.64	1.49	1.43
22	a	819	CLA	C1B-C2B	2.64	1.49	1.43
22	b	816	CLA	C1B-C2B	2.64	1.49	1.43
22	b	814	CLA	C1B-C2B	2.64	1.49	1.43
22	9	314	CLA	C1B-C2B	2.62	1.49	1.43
22	1	310	CLA	C1B-C2B	2.62	1.49	1.43
22	a	801	CLA	C1B-C2B	2.62	1.49	1.43
22	a	822	CLA	C1B-C2B	2.62	1.49	1.43
22	b	828	CLA	C1B-C2B	2.61	1.49	1.43
22	9	309	CLA	C1B-C2B	2.61	1.49	1.43
22	a	827	CLA	C1B-C2B	2.61	1.49	1.43
22	b	818	CLA	C1B-C2B	2.61	1.49	1.43
22	8	310	CLA	C1B-C2B	2.60	1.49	1.43
18	9	302	A1L1F	O15-C20	-2.60	1.42	1.46
22	1	312	CLA	C1B-C2B	2.60	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	833	CLA	C1B-C2B	2.60	1.49	1.43
22	b	825	CLA	C1B-C2B	2.59	1.49	1.43
22	7	311	CLA	C1B-C2B	2.59	1.49	1.43
22	a	841	CLA	C1B-C2B	2.58	1.49	1.43
22	7	313	CLA	C1B-C2B	2.57	1.49	1.43
22	b	819	CLA	C1B-C2B	2.57	1.49	1.43
22	b	834	CLA	C1B-C2B	2.56	1.49	1.43
22	b	830	CLA	C1B-C2B	2.56	1.49	1.43
17	7	302	A1L1G	C33-C34	-2.56	1.40	1.46
17	9	306	A1L1G	C33-C34	-2.55	1.40	1.46
18	1	304	A1L1F	O15-C20	-2.54	1.42	1.46
22	b	829	CLA	CMD-C2D	-2.54	1.45	1.50
22	a	806	CLA	CMD-C2D	-2.53	1.45	1.50
22	9	314	CLA	C3B-C4B	2.53	1.50	1.42
22	a	818	CLA	C1B-C2B	2.51	1.49	1.43
22	a	831	CLA	C1B-C2B	2.50	1.49	1.43
22	b	814	CLA	C3B-C4B	2.48	1.50	1.42
22	a	801	CLA	CMD-C2D	-2.48	1.45	1.50
17	1	301	A1L1G	C33-C34	-2.48	1.40	1.46
22	7	313	CLA	C3B-C4B	2.47	1.49	1.42
22	a	830	CLA	CMC-C2C	-2.47	1.45	1.50
22	a	820	CLA	C1B-C2B	2.47	1.48	1.43
22	a	803	CLA	C1B-C2B	2.46	1.48	1.43
22	a	842	CLA	C3B-C4B	2.46	1.49	1.42
22	a	841	CLA	C3B-C4B	2.46	1.49	1.42
21	a	846	LHG	O7-C5	-2.46	1.40	1.46
22	a	814	CLA	C3B-C4B	2.46	1.49	1.42
22	a	806	CLA	CMB-C2B	-2.45	1.45	1.50
17	7	302	A1L1G	C40-C39	-2.45	1.40	1.46
22	a	806	CLA	CMC-C2C	-2.45	1.45	1.50
22	a	802	CLA	CHC-C1C	2.45	1.43	1.38
22	a	813	CLA	C3B-C4B	2.44	1.49	1.42
22	b	829	CLA	C1B-C2B	2.44	1.48	1.43
17	9	306	A1L1G	C40-C39	-2.44	1.40	1.46
22	b	804	CLA	C3B-C4B	2.44	1.49	1.42
22	b	816	CLA	C3B-C4B	2.43	1.49	1.42
22	a	827	CLA	C3B-C4B	2.43	1.49	1.42
22	b	835	CLA	C3B-C4B	2.43	1.49	1.42
19	1	302	XAT	O4-C5	-2.42	1.43	1.46
22	b	806	CLA	C3B-C4B	2.42	1.49	1.42
21	b	847	LHG	O8-C6	-2.42	1.39	1.45
21	a	845	LHG	O8-C6	-2.42	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	837	CLA	C3B-C4B	2.42	1.49	1.42
22	b	809	CLA	C3B-C4B	2.42	1.49	1.42
22	7	307	CLA	C3B-C4B	2.42	1.49	1.42
22	7	313	CLA	CHC-C1C	2.41	1.43	1.38
22	b	813	CLA	C3B-C4B	2.41	1.49	1.42
22	1	314	CLA	C3B-C4B	2.41	1.49	1.42
22	a	819	CLA	C3B-C4B	2.41	1.49	1.42
22	f	803	CLA	C3B-C4B	2.41	1.49	1.42
22	a	829	CLA	C3B-C4B	2.41	1.49	1.42
22	a	816	CLA	C3B-C4B	2.41	1.49	1.42
22	b	828	CLA	C3B-C4B	2.41	1.49	1.42
22	a	817	CLA	C3B-C4B	2.41	1.49	1.42
22	a	804	CLA	C3B-C4B	2.41	1.49	1.42
22	b	836	CLA	C3B-C4B	2.41	1.49	1.42
22	a	802	CLA	C1B-C2B	2.41	1.48	1.43
22	b	834	CLA	C3B-C4B	2.41	1.49	1.42
22	a	808	CLA	C3B-C4B	2.41	1.49	1.42
22	a	840	CLA	C3B-C4B	2.41	1.49	1.42
22	b	811	CLA	CHC-C1C	2.40	1.43	1.38
22	a	819	CLA	CHC-C1C	2.40	1.43	1.38
22	a	822	CLA	C3B-C4B	2.40	1.49	1.42
22	a	815	CLA	C3B-C4B	2.40	1.49	1.42
22	8	312	CLA	C3B-C4B	2.40	1.49	1.42
22	1	313	CLA	C3B-C4B	2.40	1.49	1.42
22	a	802	CLA	C3B-C4B	2.40	1.49	1.42
22	a	822	CLA	CHC-C1C	2.39	1.43	1.38
22	a	854	CLA	CHC-C1C	2.39	1.43	1.38
22	a	818	CLA	CHC-C1C	2.39	1.43	1.38
22	9	311	CLA	C3B-C4B	2.39	1.49	1.42
22	1	309	CLA	C3B-C4B	2.39	1.49	1.42
21	b	847	LHG	O7-C5	-2.39	1.41	1.46
22	a	829	CLA	CHC-C1C	2.39	1.43	1.38
22	9	308	CLA	CMC-C2C	-2.39	1.45	1.50
21	a	846	LHG	O8-C6	-2.39	1.39	1.45
22	a	834	CLA	C3B-C4B	2.39	1.49	1.42
22	9	318	CLA	CHC-C1C	2.39	1.43	1.38
22	b	821	CLA	C3B-C4B	2.39	1.49	1.42
22	9	318	CLA	C3B-C4B	2.38	1.49	1.42
22	b	805	CLA	C3B-C4B	2.38	1.49	1.42
22	b	836	CLA	CHC-C1C	2.38	1.43	1.38
22	8	313	CLA	C3B-C4B	2.38	1.49	1.42
22	l	203	CLA	C3B-C4B	2.38	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	9	310	CLA	C3B-C4B	2.38	1.49	1.42
22	a	809	CLA	C3B-C4B	2.38	1.49	1.42
22	a	828	CLA	C3B-C4B	2.38	1.49	1.42
22	9	309	CLA	C3B-C4B	2.38	1.49	1.42
19	a	852	XAT	O4-C5	-2.38	1.43	1.46
22	a	820	CLA	C3B-C4B	2.38	1.49	1.42
22	b	802	CLA	C3B-C4B	2.38	1.49	1.42
22	b	815	CLA	C3B-C4B	2.38	1.49	1.42
21	a	845	LHG	O7-C5	-2.38	1.41	1.46
22	b	838	CLA	C3B-C4B	2.37	1.49	1.42
22	7	317	CLA	C3B-C4B	2.37	1.49	1.42
22	h	205	CLA	C3B-C4B	2.37	1.49	1.42
22	a	805	CLA	C3B-C4B	2.37	1.49	1.42
22	a	839	CLA	C3B-C4B	2.37	1.49	1.42
21	9	317	LHG	O8-C23	2.37	1.40	1.33
22	b	816	CLA	CHC-C1C	2.37	1.43	1.38
22	b	833	CLA	CHC-C1C	2.37	1.43	1.38
22	8	311	CLA	C3B-C4B	2.37	1.49	1.42
22	b	806	CLA	CHC-C1C	2.37	1.43	1.38
22	8	307	CLA	C3B-C4B	2.37	1.49	1.42
22	b	838	CLA	CHC-C1C	2.37	1.43	1.38
22	8	309	CLA	C3B-C4B	2.37	1.49	1.42
22	7	312	CLA	C3B-C4B	2.37	1.49	1.42
18	8	304	A1L1F	O15-C20	-2.37	1.43	1.46
22	7	306	CLA	C3B-C4B	2.37	1.49	1.42
22	8	305	CLA	C3B-C4B	2.36	1.49	1.42
22	a	837	CLA	C3B-C4B	2.36	1.49	1.42
22	8	311	CLA	CHC-C1C	2.36	1.43	1.38
22	7	311	CLA	CHC-C1C	2.36	1.43	1.38
22	a	825	CLA	C3B-C4B	2.36	1.49	1.42
22	b	815	CLA	CHC-C1C	2.36	1.43	1.38
22	b	825	CLA	C3B-C4B	2.36	1.49	1.42
22	1	310	CLA	C3B-C4B	2.36	1.49	1.42
22	j	102	CLA	C3B-C4B	2.36	1.49	1.42
22	9	308	CLA	C3B-C4B	2.36	1.49	1.42
22	7	311	CLA	C3B-C4B	2.36	1.49	1.42
22	b	831	CLA	C3B-C4B	2.36	1.49	1.42
21	9	317	LHG	O8-C6	-2.36	1.39	1.45
22	b	817	CLA	C1B-C2B	2.36	1.48	1.43
22	h	205	CLA	CHC-C1C	2.36	1.43	1.38
22	a	811	CLA	C3B-C4B	2.36	1.49	1.42
22	8	314	CLA	CHC-C1C	2.36	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	841	CLA	CHC-C1C	2.35	1.43	1.38
22	b	802	CLA	CHC-C1C	2.35	1.43	1.38
22	b	804	CLA	C1B-C2B	2.35	1.48	1.43
22	j	103	CLA	C3B-C4B	2.35	1.49	1.42
22	a	826	CLA	C3B-C4B	2.35	1.49	1.42
22	a	820	CLA	CHC-C1C	2.35	1.43	1.38
20	9	305	45D	C08-C16	-2.35	1.32	1.35
22	9	313	CLA	C3B-C4B	2.35	1.49	1.42
22	a	824	CLA	C3B-C4B	2.35	1.49	1.42
22	9	308	CLA	CHC-C1C	2.35	1.43	1.38
20	9	305	45D	C03-C07	-2.35	1.50	1.53
21	9	307	LHG	O8-C6	-2.35	1.39	1.45
22	a	844	CLA	C3B-C4B	2.35	1.49	1.42
17	1	301	A1L1G	C40-C39	-2.35	1.40	1.46
22	b	814	CLA	CHC-C1C	2.35	1.43	1.38
21	9	307	LHG	O7-C7	2.35	1.40	1.34
22	l	202	CLA	C3B-C4B	2.34	1.49	1.42
22	f	802	CLA	C3B-C4B	2.34	1.49	1.42
22	b	835	CLA	CHC-C1C	2.34	1.43	1.38
22	l	204	CLA	C3B-C4B	2.34	1.49	1.42
22	b	824	CLA	C3B-C4B	2.34	1.49	1.42
22	1	314	CLA	CHC-C1C	2.34	1.43	1.38
22	b	833	CLA	C3B-C4B	2.34	1.49	1.42
21	b	847	LHG	O8-C23	2.34	1.40	1.33
22	1	310	CLA	CHC-C1C	2.34	1.43	1.38
22	7	314	CLA	CHC-C1C	2.34	1.43	1.38
22	b	832	CLA	C3B-C4B	2.34	1.49	1.42
22	b	819	CLA	CMB-C2B	-2.34	1.46	1.50
22	8	312	CLA	CHC-C1C	2.34	1.43	1.38
22	8	310	CLA	C3B-C4B	2.34	1.49	1.42
22	7	314	CLA	C3B-C4B	2.34	1.49	1.42
22	9	311	CLA	CHC-C1C	2.33	1.43	1.38
22	9	312	CLA	C3B-C4B	2.33	1.49	1.42
21	a	845	LHG	O7-C7	2.33	1.40	1.34
22	a	812	CLA	C3B-C4B	2.33	1.49	1.42
22	7	310	CLA	C3B-C4B	2.33	1.49	1.42
22	a	824	CLA	CHC-C1C	2.33	1.43	1.38
22	b	817	CLA	C3B-C4B	2.33	1.49	1.42
22	a	833	CLA	C3B-C4B	2.33	1.49	1.42
21	9	317	LHG	O7-C5	-2.33	1.41	1.46
22	8	306	CLA	CHC-C1C	2.33	1.43	1.38
22	7	306	CLA	CHC-C1C	2.33	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	807	CLA	C3B-C4B	2.33	1.49	1.42
22	b	822	CLA	C3B-C4B	2.33	1.49	1.42
22	a	801	CLA	CMB-C2B	-2.33	1.46	1.50
22	8	314	CLA	C3B-C4B	2.33	1.49	1.42
22	1	308	CLA	C3B-C4B	2.33	1.49	1.42
19	7	301	XAT	O24-C25	-2.33	1.43	1.46
22	a	821	CLA	C3B-C4B	2.32	1.49	1.42
22	a	854	CLA	C3B-C4B	2.32	1.49	1.42
22	a	833	CLA	CHC-C1C	2.32	1.43	1.38
18	1	304	A1L1F	C6-C1	-2.32	1.50	1.54
22	a	808	CLA	CHC-C1C	2.32	1.43	1.38
22	8	308	CLA	C3B-C4B	2.32	1.49	1.42
22	a	827	CLA	CHC-C1C	2.32	1.43	1.38
22	a	828	CLA	CHC-C1C	2.32	1.43	1.38
22	l	204	CLA	CHC-C1C	2.32	1.43	1.38
22	8	309	CLA	CHC-C1C	2.32	1.43	1.38
22	a	823	CLA	C3B-C4B	2.32	1.49	1.42
22	1	306	CLA	C3B-C4B	2.32	1.49	1.42
22	b	825	CLA	CHC-C1C	2.32	1.43	1.38
22	7	308	CLA	C3B-C4B	2.31	1.49	1.42
22	b	831	CLA	CHC-C1C	2.31	1.43	1.38
22	a	830	CLA	C3B-C4B	2.31	1.49	1.42
22	l	203	CLA	CHC-C1C	2.31	1.43	1.38
22	1	311	CLA	C3B-C4B	2.31	1.49	1.42
22	b	830	CLA	CHC-C1C	2.31	1.43	1.38
19	8	302	XAT	O4-C5	-2.31	1.43	1.46
22	a	837	CLA	CHC-C1C	2.31	1.43	1.38
22	b	801	CLA	C3B-C4B	2.31	1.49	1.42
22	b	812	CLA	CHC-C1C	2.31	1.43	1.38
22	a	809	CLA	CHC-C1C	2.31	1.43	1.38
22	a	836	CLA	CHC-C1C	2.31	1.43	1.38
22	b	822	CLA	CMD-C2D	-2.31	1.46	1.50
22	a	832	CLA	CHC-C1C	2.30	1.43	1.38
22	b	837	CLA	CHC-C1C	2.30	1.43	1.38
22	b	839	CLA	C3B-C4B	2.30	1.49	1.42
22	b	817	CLA	MG-NB	-2.30	2.01	2.05
22	h	203	CLA	C3B-C4B	2.30	1.49	1.42
22	a	835	CLA	C3B-C4B	2.30	1.49	1.42
19	7	304	XAT	O24-C25	-2.30	1.43	1.46
22	a	836	CLA	C3B-C4B	2.30	1.49	1.42
22	b	827	CLA	C3B-C4B	2.30	1.49	1.42
21	9	317	LHG	O7-C7	2.30	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	8	313	CLA	CHC-C1C	2.30	1.43	1.38
22	1	312	CLA	CHC-C1C	2.30	1.43	1.38
22	b	820	CLA	C3B-C4B	2.30	1.49	1.42
22	a	806	CLA	C1D-ND	2.30	1.40	1.37
22	7	308	CLA	CHC-C1C	2.30	1.43	1.38
22	f	803	CLA	CHC-C1C	2.29	1.43	1.38
22	b	834	CLA	CHC-C1C	2.29	1.43	1.38
22	a	834	CLA	CHC-C1C	2.29	1.43	1.38
22	b	805	CLA	CHC-C1C	2.29	1.43	1.38
22	7	312	CLA	CHC-C1C	2.29	1.43	1.38
17	9	301	A1L1G	C29-C30	-2.29	1.40	1.45
22	a	844	CLA	CHC-C1C	2.29	1.43	1.38
22	b	823	CLA	CHC-C1C	2.29	1.43	1.38
22	9	315	CLA	C3B-C4B	2.29	1.49	1.42
22	b	812	CLA	C3B-C4B	2.29	1.49	1.42
22	b	826	CLA	C3B-C4B	2.29	1.49	1.42
19	a	852	XAT	O24-C25	-2.29	1.43	1.46
21	a	845	LHG	O8-C23	2.29	1.40	1.33
22	a	805	CLA	CHC-C1C	2.29	1.43	1.38
22	a	826	CLA	CHC-C1C	2.29	1.43	1.38
22	b	813	CLA	CHC-C1C	2.29	1.43	1.38
22	a	813	CLA	CHC-C1C	2.28	1.43	1.38
22	a	824	CLA	CMD-C2D	-2.28	1.46	1.50
22	b	801	CLA	CMB-C2B	-2.28	1.46	1.50
22	a	804	CLA	CHC-C1C	2.28	1.43	1.38
22	b	827	CLA	CHC-C1C	2.28	1.43	1.38
22	b	832	CLA	CHC-C1C	2.28	1.43	1.38
22	9	316	CLA	C3B-C4B	2.28	1.49	1.42
22	8	306	CLA	C3B-C4B	2.28	1.49	1.42
22	b	818	CLA	C3B-C4B	2.28	1.49	1.42
21	9	307	LHG	O8-C23	2.28	1.40	1.33
22	a	803	CLA	CHC-C1C	2.28	1.43	1.38
22	7	315	CLA	C3B-C4B	2.28	1.49	1.42
22	9	312	CLA	CHC-C1C	2.27	1.43	1.38
22	1	311	CLA	CHC-C1C	2.27	1.43	1.38
22	l	202	CLA	CHC-C1C	2.27	1.43	1.38
22	b	819	CLA	C3B-C4B	2.27	1.49	1.42
22	a	810	CLA	CMD-C2D	-2.27	1.46	1.50
22	b	810	CLA	CMB-C2B	-2.27	1.46	1.50
22	b	830	CLA	C3B-C4B	2.27	1.49	1.42
21	9	307	LHG	O7-C5	-2.27	1.41	1.46
22	b	808	CLA	C3B-C4B	2.27	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1	307	CLA	C3B-C4B	2.27	1.49	1.42
22	b	809	CLA	CMD-C2D	-2.27	1.46	1.50
22	9	313	CLA	CHC-C1C	2.27	1.43	1.38
22	1	307	CLA	CHC-C1C	2.27	1.43	1.38
22	b	828	CLA	CHC-C1C	2.27	1.43	1.38
22	b	840	CLA	CHC-C1C	2.27	1.43	1.38
22	1	308	CLA	CHC-C1C	2.27	1.43	1.38
22	b	830	CLA	CMD-C2D	-2.27	1.46	1.50
22	a	812	CLA	CHC-C1C	2.27	1.43	1.38
22	b	839	CLA	CMB-C2B	-2.27	1.46	1.50
22	8	305	CLA	CHC-C1C	2.27	1.43	1.38
22	a	838	CLA	C3B-C4B	2.27	1.49	1.42
22	b	817	CLA	CHC-C1C	2.27	1.43	1.38
22	9	309	CLA	CHC-C1C	2.27	1.43	1.38
22	1	309	CLA	CHC-C1C	2.27	1.43	1.38
22	a	815	CLA	CHC-C1C	2.27	1.43	1.38
22	b	809	CLA	CHC-C1C	2.27	1.43	1.38
22	9	314	CLA	CHC-C1C	2.27	1.43	1.38
19	9	304	XAT	O4-C5	-2.26	1.43	1.46
22	b	803	CLA	C3B-C4B	2.26	1.49	1.42
19	8	303	XAT	O4-C5	-2.26	1.43	1.46
22	a	832	CLA	C3B-C4B	2.26	1.49	1.42
22	a	839	CLA	CHC-C1C	2.26	1.43	1.38
21	a	846	LHG	O8-C23	2.26	1.39	1.33
22	7	309	CLA	C3B-C4B	2.26	1.49	1.42
21	a	846	LHG	O7-C7	2.26	1.40	1.34
22	b	823	CLA	C3B-C4B	2.26	1.49	1.42
22	1	313	CLA	CHC-C1C	2.26	1.43	1.38
22	7	310	CLA	CHC-C1C	2.26	1.43	1.38
22	a	810	CLA	C3B-C4B	2.26	1.49	1.42
22	b	824	CLA	CHC-C1C	2.25	1.43	1.38
22	a	814	CLA	CHC-C1C	2.25	1.43	1.38
22	7	309	CLA	CHC-C1C	2.25	1.43	1.38
22	a	817	CLA	CHC-C1C	2.25	1.43	1.38
21	b	847	LHG	O7-C7	2.25	1.40	1.34
22	1	305	CLA	CHC-C1C	2.25	1.43	1.38
22	a	842	CLA	CHC-C1C	2.25	1.43	1.38
19	8	301	XAT	O4-C5	-2.25	1.43	1.46
22	f	802	CLA	CHC-C1C	2.25	1.43	1.38
22	b	819	CLA	CHC-C1C	2.25	1.43	1.38
22	7	307	CLA	CHC-C1C	2.25	1.43	1.38
22	9	310	CLA	CHC-C1C	2.24	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	820	CLA	CHC-C1C	2.24	1.43	1.38
22	7	315	CLA	CHC-C1C	2.24	1.43	1.38
22	a	816	CLA	CHC-C1C	2.24	1.43	1.38
22	b	807	CLA	CHC-C1C	2.24	1.43	1.38
22	1	305	CLA	C3B-C4B	2.24	1.49	1.42
22	b	830	CLA	MG-NB	-2.24	2.01	2.05
22	a	833	CLA	MG-NB	-2.24	2.01	2.05
22	a	825	CLA	CHC-C1C	2.24	1.43	1.38
22	b	829	CLA	MG-NB	-2.24	2.01	2.05
22	b	803	CLA	CHC-C1C	2.23	1.43	1.38
22	7	317	CLA	CHC-C1C	2.23	1.43	1.38
22	8	310	CLA	CHC-C1C	2.23	1.43	1.38
22	b	840	CLA	C3B-C4B	2.23	1.49	1.42
22	b	804	CLA	CHC-C1C	2.23	1.43	1.38
22	a	823	CLA	CHC-C1C	2.23	1.43	1.38
22	b	823	CLA	CMD-C2D	-2.23	1.46	1.50
22	8	308	CLA	CHC-C1C	2.23	1.43	1.38
22	a	807	CLA	C3B-C4B	2.23	1.49	1.42
22	a	830	CLA	CHC-C1C	2.23	1.42	1.38
22	7	316	CLA	C3B-C4B	2.23	1.49	1.42
22	8	310	CLA	CMB-C2B	-2.22	1.46	1.50
19	7	303	XAT	O4-C5	-2.22	1.43	1.46
22	a	803	CLA	C3B-C4B	2.22	1.49	1.42
22	8	307	CLA	CHC-C1C	2.22	1.42	1.38
22	a	830	CLA	CMD-C2D	-2.22	1.46	1.50
22	a	838	CLA	CHC-C1C	2.22	1.42	1.38
19	j	101	XAT	O24-C25	-2.22	1.43	1.46
22	j	102	CLA	CHC-C1C	2.22	1.42	1.38
17	9	301	A1L1G	C40-C39	-2.22	1.41	1.46
17	1	301	A1L1G	C38-C39	2.21	1.40	1.35
22	a	811	CLA	CHC-C1C	2.21	1.42	1.38
22	9	309	CLA	MG-NB	-2.21	2.01	2.05
22	b	828	CLA	CMD-C2D	-2.21	1.46	1.50
22	b	822	CLA	CHC-C1C	2.21	1.42	1.38
22	1	306	CLA	CHC-C1C	2.21	1.42	1.38
22	a	820	CLA	CMB-C2B	-2.21	1.46	1.50
22	b	810	CLA	C3B-C4B	2.21	1.49	1.42
22	a	835	CLA	CHC-C1C	2.21	1.42	1.38
22	a	810	CLA	CHC-C1C	2.20	1.42	1.38
22	a	832	CLA	CMB-C2B	-2.20	1.46	1.50
22	b	819	CLA	MG-NB	-2.20	2.01	2.05
22	b	821	CLA	CHC-C1C	2.20	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	832	CLA	MG-NB	-2.20	2.01	2.05
22	h	203	CLA	CHC-C1C	2.20	1.42	1.38
22	b	801	CLA	CHC-C1C	2.20	1.42	1.38
22	9	309	CLA	CMD-C2D	-2.20	1.46	1.50
22	a	806	CLA	CAA-C2A	-2.20	1.50	1.54
22	a	804	CLA	CMC-C2C	-2.19	1.46	1.50
22	a	828	CLA	CMC-C2C	-2.19	1.46	1.50
22	a	821	CLA	CHC-C1C	2.19	1.42	1.38
22	7	316	CLA	CMD-C2D	-2.19	1.46	1.50
22	9	316	CLA	CHC-C1C	2.19	1.42	1.38
22	a	831	CLA	C3B-C4B	2.19	1.49	1.42
19	1	303	XAT	O4-C5	-2.18	1.43	1.46
22	9	315	CLA	CHC-C1C	2.18	1.42	1.38
22	a	801	CLA	CMC-C2C	-2.18	1.46	1.50
22	a	840	CLA	CHC-C1C	2.18	1.42	1.38
22	8	310	CLA	MG-NB	-2.18	2.01	2.05
19	j	101	XAT	O4-C5	-2.18	1.43	1.46
22	8	312	CLA	MG-NB	-2.18	2.01	2.05
22	a	801	CLA	C3B-C4B	2.18	1.49	1.42
17	1	301	A1L1G	C35-C34	2.18	1.40	1.35
22	b	826	CLA	CHC-C1C	2.18	1.42	1.38
22	b	808	CLA	CHC-C1C	2.18	1.42	1.38
22	b	829	CLA	C3B-C4B	2.17	1.49	1.42
17	1	301	A1L1G	C29-C30	-2.17	1.40	1.45
22	a	836	CLA	CMB-C2B	-2.17	1.46	1.50
22	7	314	CLA	CMD-C2D	-2.17	1.46	1.50
20	9	305	45D	C07-C15	-2.17	1.32	1.35
22	a	807	CLA	CHC-C1C	2.17	1.42	1.38
22	b	837	CLA	CMD-C2D	-2.17	1.46	1.50
19	9	303	XAT	O24-C25	-2.17	1.43	1.46
19	7	305	XAT	O4-C5	-2.17	1.43	1.46
22	a	810	CLA	MG-NB	-2.17	2.01	2.05
22	a	807	CLA	MG-NB	-2.16	2.01	2.05
22	9	315	CLA	MG-NB	-2.16	2.01	2.05
22	b	817	CLA	CMB-C2B	-2.16	1.46	1.50
22	b	804	CLA	MG-NB	-2.16	2.01	2.05
22	b	803	CLA	CMD-C2D	-2.16	1.46	1.50
22	j	103	CLA	CHC-C1C	2.16	1.42	1.38
22	9	309	CLA	CMB-C2B	-2.16	1.46	1.50
22	a	801	CLA	CHC-C1C	2.16	1.42	1.38
22	b	818	CLA	CHC-C1C	2.16	1.42	1.38
22	b	830	CLA	CMB-C2B	-2.15	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	l	202	CLA	MG-NB	-2.15	2.01	2.05
19	7	303	XAT	O24-C25	-2.15	1.43	1.46
22	a	828	CLA	MG-NB	-2.15	2.01	2.05
22	a	820	CLA	MG-NB	-2.15	2.01	2.05
22	b	826	CLA	MG-NB	-2.15	2.01	2.05
19	8	302	XAT	O24-C25	-2.15	1.43	1.46
19	8	303	XAT	O24-C25	-2.15	1.43	1.46
17	7	302	A1L1G	C38-C39	2.15	1.40	1.35
22	1	307	CLA	MG-NB	-2.15	2.01	2.05
22	b	834	CLA	CMB-C2B	-2.15	1.46	1.50
22	7	316	CLA	MG-NB	-2.14	2.01	2.05
19	7	304	XAT	O4-C5	-2.14	1.43	1.46
22	a	842	CLA	CMD-C2D	-2.14	1.46	1.50
22	b	811	CLA	CMD-C2D	-2.14	1.46	1.50
22	a	821	CLA	CMD-C2D	-2.14	1.46	1.50
22	a	832	CLA	CMD-C2D	-2.14	1.46	1.50
22	1	310	CLA	MG-NB	-2.14	2.01	2.05
22	a	806	CLA	C4B-NB	2.14	1.40	1.37
22	b	814	CLA	CMD-C2D	-2.13	1.46	1.50
22	a	803	CLA	MG-NB	-2.13	2.01	2.05
22	a	808	CLA	CMB-C2B	-2.13	1.46	1.50
19	1	302	XAT	O24-C25	-2.13	1.43	1.46
22	b	832	CLA	MG-NB	-2.13	2.01	2.05
22	b	801	CLA	CMD-C2D	-2.13	1.46	1.50
22	a	831	CLA	MG-NB	-2.13	2.01	2.05
22	b	809	CLA	CMC-C2C	-2.13	1.46	1.50
22	b	824	CLA	MG-NB	-2.13	2.01	2.05
22	a	826	CLA	CMD-C2D	-2.13	1.46	1.50
22	7	316	CLA	CHC-C1C	2.13	1.42	1.38
22	a	801	CLA	MG-NB	-2.13	2.01	2.05
22	9	318	CLA	CMD-C2D	-2.12	1.46	1.50
22	a	812	CLA	CMD-C2D	-2.12	1.46	1.50
22	a	816	CLA	MG-NB	-2.12	2.01	2.05
21	9	317	LHG	P-O6	2.12	1.67	1.59
22	7	311	CLA	CMB-C2B	-2.12	1.46	1.50
22	a	834	CLA	CMD-C2D	-2.12	1.46	1.50
22	b	810	CLA	MG-NB	-2.12	2.01	2.05
22	b	838	CLA	CMD-C2D	-2.12	1.46	1.50
22	a	806	CLA	MG-ND	-2.12	2.01	2.05
22	a	802	CLA	CMB-C2B	-2.12	1.46	1.50
22	b	818	CLA	CMB-C2B	-2.12	1.46	1.50
22	7	310	CLA	MG-NB	-2.12	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	837	CLA	CMB-C2B	-2.11	1.46	1.50
22	b	813	CLA	MG-NB	-2.11	2.01	2.05
22	b	822	CLA	MG-NB	-2.11	2.01	2.05
22	b	823	CLA	MG-NB	-2.11	2.01	2.05
22	b	835	CLA	MG-NB	-2.11	2.01	2.05
22	b	834	CLA	CMD-C2D	-2.11	1.46	1.50
22	b	825	CLA	MG-NB	-2.11	2.01	2.05
22	b	828	CLA	CMB-C2B	-2.11	1.46	1.50
22	b	803	CLA	CMC-C2C	-2.11	1.46	1.50
19	1	303	XAT	O24-C25	-2.11	1.43	1.46
22	a	803	CLA	CMB-C2B	-2.11	1.46	1.50
22	b	804	CLA	CMD-C2D	-2.11	1.46	1.50
22	b	840	CLA	MG-NB	-2.11	2.01	2.05
22	b	828	CLA	MG-NB	-2.11	2.01	2.05
22	a	824	CLA	CMB-C2B	-2.11	1.46	1.50
17	9	301	A1L1G	C38-C39	2.11	1.40	1.35
22	l	202	CLA	CMD-C2D	-2.11	1.46	1.50
19	9	304	XAT	O24-C25	-2.11	1.43	1.46
22	j	102	CLA	CMD-C2D	-2.10	1.46	1.50
22	8	308	CLA	MG-NB	-2.10	2.01	2.05
22	a	822	CLA	CMB-C2B	-2.10	1.46	1.50
22	b	833	CLA	CMD-C2D	-2.10	1.46	1.50
22	b	837	CLA	MG-NB	-2.10	2.01	2.05
22	l	203	CLA	CMB-C2B	-2.10	1.46	1.50
22	a	806	CLA	C1B-NB	-2.10	1.35	1.37
21	b	847	LHG	P-O6	2.10	1.67	1.59
22	9	312	CLA	CMD-C2D	-2.10	1.46	1.50
22	a	816	CLA	CMD-C2D	-2.10	1.46	1.50
19	8	301	XAT	O24-C25	-2.10	1.43	1.46
17	9	306	A1L1G	C35-C34	2.10	1.40	1.35
22	b	834	CLA	MG-NB	-2.10	2.01	2.05
22	b	816	CLA	MG-NB	-2.10	2.01	2.05
22	b	838	CLA	MG-NB	-2.10	2.01	2.05
22	b	810	CLA	CHC-C1C	2.10	1.42	1.38
22	7	313	CLA	MG-NB	-2.10	2.01	2.05
22	b	819	CLA	CMD-C2D	-2.09	1.46	1.50
22	a	822	CLA	MG-NB	-2.09	2.01	2.05
22	a	839	CLA	CMD-C2D	-2.09	1.46	1.50
22	b	825	CLA	CMD-C2D	-2.09	1.46	1.50
21	a	845	LHG	P-O6	2.09	1.67	1.59
22	l	203	CLA	MG-NB	-2.09	2.01	2.05
22	a	830	CLA	MG-NB	-2.09	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	8	310	CLA	CMD-C2D	-2.09	1.46	1.50
17	9	301	A1L1G	C35-C34	2.09	1.40	1.35
22	b	826	CLA	CMD-C2D	-2.09	1.46	1.50
22	a	810	CLA	CMB-C2B	-2.09	1.46	1.50
22	a	802	CLA	MG-NB	-2.09	2.01	2.05
22	b	808	CLA	MG-NB	-2.09	2.01	2.05
22	a	808	CLA	MG-NB	-2.09	2.01	2.05
22	l	203	CLA	CMC-C2C	-2.09	1.46	1.50
22	l	204	CLA	CMC-C2C	-2.09	1.46	1.50
22	b	820	CLA	CMD-C2D	-2.09	1.46	1.50
22	a	826	CLA	MG-NB	-2.09	2.01	2.05
22	b	838	CLA	CMB-C2B	-2.09	1.46	1.50
21	9	307	LHG	P-O6	2.09	1.67	1.59
22	a	838	CLA	MG-NB	-2.09	2.01	2.05
22	l	202	CLA	CMB-C2B	-2.09	1.46	1.50
22	1	309	CLA	CMD-C2D	-2.08	1.46	1.50
22	a	854	CLA	MG-NB	-2.08	2.01	2.05
22	b	807	CLA	CMD-C2D	-2.08	1.46	1.50
22	h	205	CLA	CMC-C2C	-2.08	1.46	1.50
22	b	836	CLA	MG-NB	-2.08	2.01	2.05
22	a	831	CLA	CHC-C1C	2.08	1.42	1.38
22	b	818	CLA	MG-NB	-2.08	2.01	2.05
22	b	801	CLA	MG-NB	-2.08	2.01	2.05
17	9	306	A1L1G	C29-C30	-2.08	1.40	1.45
22	8	313	CLA	CMD-C2D	-2.08	1.46	1.50
22	a	823	CLA	CMD-C2D	-2.08	1.46	1.50
22	b	802	CLA	CMD-C2D	-2.08	1.46	1.50
22	7	309	CLA	MG-NB	-2.08	2.01	2.05
22	b	807	CLA	MG-NB	-2.07	2.01	2.05
22	7	308	CLA	CMD-C2D	-2.07	1.46	1.50
22	a	840	CLA	CMD-C2D	-2.07	1.46	1.50
22	1	309	CLA	MG-NB	-2.07	2.01	2.05
22	b	817	CLA	CMD-C2D	-2.07	1.46	1.50
22	7	311	CLA	CMD-C2D	-2.07	1.46	1.50
19	7	301	XAT	O4-C5	-2.07	1.43	1.46
22	a	825	CLA	MG-NB	-2.07	2.01	2.05
22	8	313	CLA	CMB-C2B	-2.07	1.46	1.50
22	a	813	CLA	CMD-C2D	-2.07	1.46	1.50
22	a	854	CLA	CMB-C2B	-2.07	1.46	1.50
21	a	846	LHG	P-O6	2.07	1.67	1.59
22	b	820	CLA	MG-NB	-2.07	2.01	2.05
22	a	808	CLA	CMD-C2D	-2.07	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	814	CLA	MG-NB	-2.07	2.01	2.05
22	a	817	CLA	CMB-C2B	-2.07	1.46	1.50
22	a	803	CLA	CMD-C2D	-2.07	1.46	1.50
22	9	308	CLA	MG-NB	-2.07	2.01	2.05
22	b	813	CLA	CMD-C2D	-2.07	1.46	1.50
22	1	313	CLA	CMD-C2D	-2.07	1.46	1.50
22	9	312	CLA	MG-NB	-2.07	2.01	2.05
22	b	811	CLA	MG-NB	-2.06	2.01	2.05
22	a	824	CLA	MG-NB	-2.06	2.01	2.05
22	a	811	CLA	CMD-C2D	-2.06	1.46	1.50
22	1	309	CLA	CMB-C2B	-2.06	1.46	1.50
22	a	837	CLA	CMD-C2D	-2.06	1.46	1.50
22	b	808	CLA	CMD-C2D	-2.06	1.46	1.50
22	7	310	CLA	CMD-C2D	-2.06	1.46	1.50
22	b	832	CLA	CMD-C2D	-2.06	1.46	1.50
22	1	306	CLA	MG-NB	-2.06	2.01	2.05
22	7	315	CLA	CMD-C2D	-2.06	1.46	1.50
22	8	306	CLA	MG-NB	-2.06	2.01	2.05
22	1	313	CLA	MG-NB	-2.06	2.01	2.05
22	7	312	CLA	CMD-C2D	-2.06	1.46	1.50
22	b	831	CLA	MG-NB	-2.06	2.01	2.05
22	8	305	CLA	MG-NB	-2.06	2.01	2.05
22	9	308	CLA	CMD-C2D	-2.06	1.46	1.50
22	7	314	CLA	MG-NB	-2.06	2.01	2.05
22	a	818	CLA	CMB-C2B	-2.06	1.46	1.50
22	7	314	CLA	CMB-C2B	-2.06	1.46	1.50
22	1	312	CLA	CMD-C2D	-2.06	1.46	1.50
22	j	103	CLA	CMB-C2B	-2.06	1.46	1.50
22	a	835	CLA	MG-NB	-2.06	2.01	2.05
22	9	314	CLA	CMD-C2D	-2.06	1.46	1.50
22	7	307	CLA	MG-NB	-2.06	2.01	2.05
22	a	827	CLA	MG-NB	-2.06	2.01	2.05
22	a	819	CLA	CMC-C2C	-2.06	1.46	1.50
22	8	307	CLA	MG-NB	-2.06	2.01	2.05
22	f	802	CLA	MG-NB	-2.06	2.01	2.05
22	7	313	CLA	CMD-C2D	-2.06	1.46	1.50
23	b	848	DGD	C1E-C2E	2.05	1.58	1.52
22	a	802	CLA	CMD-C2D	-2.05	1.46	1.50
22	l	204	CLA	MG-NB	-2.05	2.01	2.05
22	b	821	CLA	CMD-C2D	-2.05	1.46	1.50
22	7	306	CLA	CMD-C2D	-2.05	1.46	1.50
22	a	815	CLA	CMB-C2B	-2.05	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	7	311	CLA	MG-NB	-2.05	2.01	2.05
22	1	311	CLA	CMD-C2D	-2.05	1.46	1.50
22	a	819	CLA	CMD-C2D	-2.05	1.46	1.50
22	a	842	CLA	MG-NB	-2.05	2.01	2.05
22	f	802	CLA	CMD-C2D	-2.05	1.46	1.50
22	9	316	CLA	MG-NB	-2.05	2.01	2.05
22	a	841	CLA	MG-NB	-2.05	2.01	2.05
22	b	812	CLA	MG-NB	-2.05	2.01	2.05
22	9	316	CLA	CMD-C2D	-2.05	1.46	1.50
22	l	204	CLA	CMB-C2B	-2.05	1.46	1.50
22	a	838	CLA	CMD-C2D	-2.05	1.46	1.50
22	a	817	CLA	CMD-C2D	-2.04	1.46	1.50
22	a	842	CLA	CMB-C2B	-2.04	1.46	1.50
22	b	813	CLA	CMB-C2B	-2.04	1.46	1.50
22	a	817	CLA	MG-NB	-2.04	2.01	2.05
22	7	306	CLA	MG-NB	-2.04	2.01	2.05
22	7	315	CLA	CMB-C2B	-2.04	1.46	1.50
22	b	824	CLA	CMB-C2B	-2.04	1.46	1.50
22	a	844	CLA	MG-NB	-2.04	2.01	2.05
22	a	823	CLA	MG-NB	-2.04	2.01	2.05
22	1	307	CLA	CMB-C2B	-2.04	1.46	1.50
22	a	806	CLA	CHC-C1C	2.04	1.42	1.38
22	a	818	CLA	CMC-C2C	-2.04	1.46	1.50
22	a	841	CLA	CMC-C2C	-2.04	1.46	1.50
22	b	840	CLA	CMB-C2B	-2.04	1.46	1.50
22	1	307	CLA	CMD-C2D	-2.04	1.46	1.50
22	b	809	CLA	CMB-C2B	-2.04	1.46	1.50
22	7	315	CLA	MG-NB	-2.04	2.01	2.05
22	1	310	CLA	CMB-C2B	-2.04	1.46	1.50
22	8	305	CLA	CMD-C2D	-2.04	1.46	1.50
22	b	824	CLA	CMD-C2D	-2.04	1.46	1.50
22	a	807	CLA	CMD-C2D	-2.04	1.46	1.50
22	b	835	CLA	CMD-C2D	-2.04	1.46	1.50
22	h	205	CLA	CMB-C2B	-2.04	1.46	1.50
22	b	815	CLA	MG-NB	-2.04	2.01	2.05
22	a	840	CLA	MG-NB	-2.04	2.01	2.05
22	9	310	CLA	CMD-C2D	-2.04	1.46	1.50
22	8	308	CLA	CMB-C2B	-2.04	1.46	1.50
22	8	309	CLA	CMD-C2D	-2.04	1.46	1.50
22	a	827	CLA	CMD-C2D	-2.04	1.46	1.50
22	a	839	CLA	MG-NB	-2.04	2.01	2.05
22	b	833	CLA	MG-NB	-2.04	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1	310	CLA	CMD-C2D	-2.03	1.46	1.50
22	1	311	CLA	MG-NB	-2.03	2.01	2.05
22	a	821	CLA	MG-NB	-2.03	2.01	2.05
22	1	311	CLA	CMB-C2B	-2.03	1.46	1.50
22	b	818	CLA	CMD-C2D	-2.03	1.46	1.50
22	a	837	CLA	MG-NB	-2.03	2.01	2.05
19	7	305	XAT	O24-C25	-2.03	1.43	1.46
22	a	806	CLA	C1B-C2B	2.03	1.47	1.43
22	h	205	CLA	MG-NB	-2.03	2.01	2.05
22	9	310	CLA	MG-NB	-2.03	2.01	2.05
22	9	311	CLA	CMB-C2B	-2.03	1.46	1.50
22	a	811	CLA	MG-NB	-2.03	2.01	2.05
22	a	813	CLA	MG-NB	-2.03	2.01	2.05
22	b	811	CLA	CMB-C2B	-2.03	1.46	1.50
22	8	309	CLA	MG-NB	-2.03	2.01	2.05
22	a	815	CLA	MG-NB	-2.03	2.01	2.05
22	b	804	CLA	CMC-C2C	-2.03	1.46	1.50
22	b	825	CLA	CMB-C2B	-2.03	1.46	1.50
22	h	203	CLA	CMD-C2D	-2.03	1.46	1.50
22	1	308	CLA	MG-NB	-2.03	2.01	2.05
22	1	314	CLA	CMD-C2D	-2.03	1.46	1.50
22	b	812	CLA	CMD-C2D	-2.03	1.46	1.50
22	8	308	CLA	CMD-C2D	-2.03	1.46	1.50
22	a	805	CLA	CMD-C2D	-2.03	1.46	1.50
22	7	312	CLA	MG-NB	-2.03	2.01	2.05
22	a	814	CLA	CMD-C2D	-2.03	1.46	1.50
22	a	831	CLA	CMD-C2D	-2.03	1.46	1.50
22	h	205	CLA	CMD-C2D	-2.03	1.46	1.50
22	b	829	CLA	CHC-C1C	2.03	1.42	1.38
22	a	804	CLA	MG-NB	-2.03	2.01	2.05
22	1	314	CLA	CMB-C2B	-2.03	1.46	1.50
22	l	203	CLA	CMD-C2D	-2.02	1.46	1.50
22	j	102	CLA	CMB-C2B	-2.02	1.46	1.50
22	8	312	CLA	CMC-C2C	-2.02	1.46	1.50
22	8	313	CLA	MG-NB	-2.02	2.01	2.05
22	8	311	CLA	CMD-C2D	-2.02	1.46	1.50
22	b	827	CLA	MG-NB	-2.02	2.01	2.05
22	a	813	CLA	CMB-C2B	-2.02	1.46	1.50
22	b	827	CLA	CMD-C2D	-2.02	1.46	1.50
22	8	311	CLA	MG-NB	-2.02	2.01	2.05
22	a	829	CLA	MG-NB	-2.02	2.01	2.05
22	a	840	CLA	CMB-C2B	-2.02	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	l	204	CLA	CMD-C2D	-2.02	1.46	1.50
23	b	848	DGD	O4D-C4D	-2.02	1.38	1.43
22	b	815	CLA	CMB-C2B	-2.02	1.46	1.50
23	b	848	DGD	O3D-C3D	-2.02	1.38	1.43
22	9	318	CLA	CMB-C2B	-2.02	1.46	1.50
22	7	307	CLA	CMD-C2D	-2.02	1.46	1.50
22	b	829	CLA	CMC-C2C	-2.02	1.46	1.50
22	1	306	CLA	CMC-C2C	-2.02	1.46	1.50
22	7	307	CLA	CMB-C2B	-2.02	1.46	1.50
22	7	317	CLA	CMD-C2D	-2.02	1.46	1.50
22	a	822	CLA	CMD-C2D	-2.02	1.46	1.50
22	a	802	CLA	CMC-C2C	-2.01	1.46	1.50
22	a	821	CLA	CMB-C2B	-2.01	1.46	1.50
22	a	835	CLA	CMD-C2D	-2.01	1.46	1.50
22	b	836	CLA	CMD-C2D	-2.01	1.46	1.50
22	b	821	CLA	MG-NB	-2.01	2.01	2.05
22	b	812	CLA	CMB-C2B	-2.01	1.46	1.50
22	8	314	CLA	MG-NB	-2.01	2.01	2.05
22	a	815	CLA	CMC-C2C	-2.01	1.46	1.50
22	b	823	CLA	CMC-C2C	-2.01	1.46	1.50
22	9	314	CLA	MG-NB	-2.01	2.01	2.05
22	b	805	CLA	CMD-C2D	-2.01	1.46	1.50
22	9	308	CLA	CMB-C2B	-2.01	1.46	1.50
22	1	312	CLA	CMB-C2B	-2.01	1.46	1.50
22	9	309	CLA	CMC-C2C	-2.01	1.46	1.50
22	a	809	CLA	CMD-C2D	-2.01	1.46	1.50
22	a	821	CLA	CMC-C2C	-2.01	1.46	1.50
22	a	841	CLA	CMD-C2D	-2.01	1.46	1.50
22	b	820	CLA	CMB-C2B	-2.01	1.46	1.50
22	a	829	CLA	CMD-C2D	-2.01	1.46	1.50
22	b	815	CLA	CMD-C2D	-2.01	1.46	1.50
22	1	305	CLA	CMB-C2B	-2.01	1.46	1.50
22	b	839	CLA	CMD-C2D	-2.01	1.46	1.50
22	1	313	CLA	CMB-C2B	-2.01	1.46	1.50
22	a	836	CLA	MG-NB	-2.01	2.01	2.05
22	f	803	CLA	CMB-C2B	-2.01	1.46	1.50
22	b	816	CLA	CMD-C2D	-2.01	1.46	1.50
22	h	203	CLA	CMB-C2B	-2.01	1.46	1.50
22	a	819	CLA	CMB-C2B	-2.01	1.46	1.50
22	b	827	CLA	CMB-C2B	-2.01	1.46	1.50
22	b	809	CLA	MG-NB	-2.01	2.01	2.05
22	a	835	CLA	CMB-C2B	-2.01	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1	305	CLA	MG-NB	-2.01	2.01	2.05
22	9	314	CLA	CMC-C2C	-2.01	1.46	1.50
22	8	314	CLA	CMB-C2B	-2.01	1.46	1.50
22	8	306	CLA	CMD-C2D	-2.00	1.46	1.50
22	a	809	CLA	MG-NB	-2.00	2.01	2.05
22	8	314	CLA	CMD-C2D	-2.00	1.46	1.50
22	b	833	CLA	CMC-C2C	-2.00	1.46	1.50
22	7	308	CLA	MG-NB	-2.00	2.01	2.05
22	9	318	CLA	MG-NB	-2.00	2.01	2.05

All (1502) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	9	302	A1L1F	O15-C20-C21	10.47	123.30	113.49
18	9	302	A1L1F	C17-C20-C25	-8.64	108.08	122.30
18	h	204	A1L1F	C17-C20-C25	-8.55	108.23	122.30
18	8	304	A1L1F	C17-C20-C25	-8.39	108.49	122.30
18	1	304	A1L1F	C17-C20-C25	-8.26	108.70	122.30
18	8	304	A1L1F	C37-C38-C39	-7.95	116.13	127.28
22	7	314	CLA	C4A-NA-C1A	7.39	110.05	106.68
19	9	303	XAT	C38-C25-C24	7.33	122.48	114.24
22	9	310	CLA	C4A-NA-C1A	7.28	110.00	106.68
22	b	839	CLA	C4A-NA-C1A	7.26	109.99	106.68
19	1	303	XAT	C38-C25-C24	7.24	122.37	114.24
19	7	304	XAT	C38-C25-C24	7.20	122.33	114.24
22	9	313	CLA	C4A-NA-C1A	7.19	109.96	106.68
19	a	852	XAT	C15-C14-C13	-7.19	117.19	127.28
22	a	806	CLA	C4A-NA-C1A	7.17	109.95	106.68
26	f	801	BCR	C24-C23-C22	-7.17	115.63	126.23
19	7	305	XAT	C38-C25-C24	7.14	122.26	114.24
22	a	833	CLA	C4A-NA-C1A	7.13	109.93	106.68
22	l	203	CLA	C4A-NA-C1A	7.12	109.93	106.68
22	a	810	CLA	C4A-NA-C1A	7.11	109.92	106.68
22	b	803	CLA	C4A-NA-C1A	7.10	109.92	106.68
19	j	101	XAT	C38-C25-C24	7.09	122.21	114.24
22	j	103	CLA	C4A-NA-C1A	7.08	109.91	106.68
22	b	809	CLA	C4A-NA-C1A	7.08	109.91	106.68
19	9	304	XAT	C38-C25-C24	7.08	122.19	114.24
22	a	821	CLA	C4A-NA-C1A	7.07	109.91	106.68
22	9	308	CLA	C4A-NA-C1A	6.99	109.87	106.68
22	a	823	CLA	C4A-NA-C1A	6.98	109.86	106.68
22	a	835	CLA	C4A-NA-C1A	6.95	109.85	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	1	302	XAT	C38-C25-C24	6.94	122.04	114.24
22	a	826	CLA	C4A-NA-C1A	6.94	109.85	106.68
22	b	820	CLA	C4A-NA-C1A	6.94	109.84	106.68
22	7	317	CLA	C4A-NA-C1A	6.93	109.84	106.68
19	9	303	XAT	C38-C25-C26	-6.93	110.90	122.30
19	8	301	XAT	C38-C25-C26	-6.93	110.90	122.30
19	8	301	XAT	C38-C25-C24	6.89	121.98	114.24
22	b	814	CLA	C4A-NA-C1A	6.88	109.82	106.68
19	8	303	XAT	C18-C5-C6	-6.86	111.02	122.30
19	8	303	XAT	C38-C25-C24	6.85	121.94	114.24
22	b	827	CLA	C4A-NA-C1A	6.85	109.80	106.68
22	a	828	CLA	C4A-NA-C1A	6.84	109.80	106.68
19	9	304	XAT	C38-C25-C26	-6.83	111.06	122.30
19	7	304	XAT	C18-C5-C6	-6.83	111.07	122.30
22	a	801	CLA	C4A-NA-C1A	6.82	109.79	106.68
19	a	852	XAT	C38-C25-C24	6.80	121.88	114.24
22	b	805	CLA	C4A-NA-C1A	6.80	109.78	106.68
22	b	812	CLA	C4A-NA-C1A	6.79	109.78	106.68
19	7	301	XAT	C18-C5-C6	-6.79	111.13	122.30
19	j	101	XAT	C38-C25-C26	-6.78	111.15	122.30
19	7	303	XAT	C38-C25-C26	-6.76	111.17	122.30
19	8	302	XAT	C38-C25-C24	6.75	121.83	114.24
22	a	841	CLA	C4A-NA-C1A	6.75	109.76	106.68
19	8	302	XAT	C38-C25-C26	-6.75	111.20	122.30
22	a	839	CLA	C4A-NA-C1A	6.74	109.75	106.68
22	a	817	CLA	C4A-NA-C1A	6.74	109.75	106.68
22	b	806	CLA	C4A-NA-C1A	6.73	109.75	106.68
22	b	821	CLA	C4A-NA-C1A	6.73	109.75	106.68
22	1	306	CLA	C4A-NA-C1A	6.72	109.75	106.68
18	8	304	A1L1F	O15-C20-C21	6.72	119.79	113.49
22	a	805	CLA	C4A-NA-C1A	6.72	109.75	106.68
19	7	304	XAT	C38-C25-C26	-6.72	111.24	122.30
22	b	801	CLA	C4A-NA-C1A	6.72	109.74	106.68
22	9	316	CLA	C4A-NA-C1A	6.71	109.74	106.68
26	i	101	BCR	C24-C23-C22	-6.71	116.30	126.23
22	a	809	CLA	C4A-NA-C1A	6.71	109.74	106.68
19	8	302	XAT	C18-C5-C6	-6.71	111.26	122.30
22	a	834	CLA	C4A-NA-C1A	6.71	109.74	106.68
22	a	825	CLA	C4A-NA-C1A	6.69	109.73	106.68
22	b	832	CLA	C4A-NA-C1A	6.69	109.73	106.68
22	7	316	CLA	C4A-NA-C1A	6.68	109.73	106.68
22	l	202	CLA	C4A-NA-C1A	6.68	109.73	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	7	301	XAT	C18-C5-C4	6.68	121.75	114.24
22	b	810	CLA	C4A-NA-C1A	6.68	109.73	106.68
22	8	312	CLA	C4A-NA-C1A	6.67	109.72	106.68
22	a	811	CLA	C4A-NA-C1A	6.67	109.72	106.68
22	a	807	CLA	C4A-NA-C1A	6.67	109.72	106.68
22	h	203	CLA	C4A-NA-C1A	6.67	109.72	106.68
19	7	303	XAT	C18-C5-C6	-6.67	111.32	122.30
19	7	305	XAT	C38-C25-C26	-6.67	111.32	122.30
22	1	308	CLA	C4A-NA-C1A	6.67	109.72	106.68
22	a	854	CLA	C4A-NA-C1A	6.67	109.72	106.68
22	b	824	CLA	C4A-NA-C1A	6.66	109.72	106.68
22	f	803	CLA	C4A-NA-C1A	6.66	109.72	106.68
22	a	838	CLA	C4A-NA-C1A	6.66	109.72	106.68
26	a	850	BCR	C24-C23-C22	-6.66	116.39	126.23
22	f	802	CLA	C4A-NA-C1A	6.66	109.72	106.68
22	8	311	CLA	C4A-NA-C1A	6.65	109.71	106.68
22	a	842	CLA	C4A-NA-C1A	6.65	109.71	106.68
18	h	204	A1L1F	O15-C20-C21	6.64	119.72	113.49
22	l	204	CLA	C4A-NA-C1A	6.64	109.71	106.68
22	a	831	CLA	C4A-NA-C1A	6.63	109.70	106.68
22	b	836	CLA	C4A-NA-C1A	6.63	109.70	106.68
22	b	807	CLA	C4A-NA-C1A	6.61	109.69	106.68
22	a	837	CLA	C4A-NA-C1A	6.60	109.69	106.68
22	1	305	CLA	C4A-NA-C1A	6.60	109.69	106.68
19	7	303	XAT	C38-C25-C24	6.59	121.64	114.24
22	a	827	CLA	C4A-NA-C1A	6.59	109.68	106.68
22	7	312	CLA	C4A-NA-C1A	6.58	109.68	106.68
22	9	314	CLA	C4A-NA-C1A	6.58	109.68	106.68
19	j	101	XAT	C18-C5-C6	-6.58	111.48	122.30
22	8	314	CLA	C4A-NA-C1A	6.57	109.68	106.68
22	a	804	CLA	C4A-NA-C1A	6.56	109.67	106.68
22	a	840	CLA	C4A-NA-C1A	6.56	109.67	106.68
22	a	812	CLA	C4A-NA-C1A	6.56	109.67	106.68
22	7	308	CLA	C4A-NA-C1A	6.55	109.67	106.68
22	8	305	CLA	C4A-NA-C1A	6.55	109.67	106.68
22	a	844	CLA	C4A-NA-C1A	6.55	109.67	106.68
19	1	302	XAT	C38-C25-C26	-6.54	111.54	122.30
22	7	315	CLA	C4A-NA-C1A	6.53	109.66	106.68
22	a	808	CLA	C4A-NA-C1A	6.53	109.66	106.68
22	b	818	CLA	C4A-NA-C1A	6.52	109.65	106.68
19	7	305	XAT	C18-C5-C6	-6.52	111.58	122.30
22	b	826	CLA	C4A-NA-C1A	6.51	109.65	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	815	CLA	C4A-NA-C1A	6.51	109.65	106.68
22	b	831	CLA	C4A-NA-C1A	6.50	109.65	106.68
22	9	311	CLA	C4A-NA-C1A	6.50	109.64	106.68
22	b	835	CLA	C4A-NA-C1A	6.49	109.64	106.68
22	a	830	CLA	C4A-NA-C1A	6.49	109.64	106.68
22	8	313	CLA	C4A-NA-C1A	6.49	109.64	106.68
22	b	808	CLA	C4A-NA-C1A	6.49	109.64	106.68
19	8	303	XAT	C18-C5-C4	6.49	121.53	114.24
22	a	832	CLA	C4A-NA-C1A	6.49	109.64	106.68
22	9	312	CLA	C4A-NA-C1A	6.48	109.64	106.68
22	8	309	CLA	C4A-NA-C1A	6.48	109.64	106.68
19	9	303	XAT	C18-C5-C6	-6.48	111.64	122.30
22	j	102	CLA	C4A-NA-C1A	6.48	109.63	106.68
22	a	829	CLA	C4A-NA-C1A	6.47	109.63	106.68
22	7	310	CLA	C4A-NA-C1A	6.46	109.63	106.68
22	a	822	CLA	C4A-NA-C1A	6.45	109.62	106.68
22	h	205	CLA	C4A-NA-C1A	6.45	109.62	106.68
22	7	306	CLA	C4A-NA-C1A	6.44	109.62	106.68
22	b	833	CLA	C4A-NA-C1A	6.44	109.62	106.68
22	1	312	CLA	C4A-NA-C1A	6.44	109.62	106.68
22	a	816	CLA	C4A-NA-C1A	6.43	109.61	106.68
22	a	836	CLA	C4A-NA-C1A	6.42	109.61	106.68
19	8	301	XAT	C18-C5-C6	-6.42	111.73	122.30
22	8	307	CLA	C4A-NA-C1A	6.42	109.61	106.68
19	1	302	XAT	C18-C5-C6	-6.42	111.74	122.30
22	a	824	CLA	C4A-NA-C1A	6.41	109.61	106.68
19	7	305	XAT	C18-C5-C4	6.41	121.44	114.24
22	b	822	CLA	C4A-NA-C1A	6.41	109.60	106.68
19	1	303	XAT	C18-C5-C6	-6.41	111.75	122.30
22	b	838	CLA	C4A-NA-C1A	6.41	109.60	106.68
22	8	306	CLA	C4A-NA-C1A	6.40	109.60	106.68
22	7	307	CLA	C4A-NA-C1A	6.40	109.60	106.68
22	b	823	CLA	C4A-NA-C1A	6.40	109.60	106.68
19	1	303	XAT	C38-C25-C26	-6.40	111.77	122.30
22	a	819	CLA	C4A-NA-C1A	6.40	109.60	106.68
19	j	101	XAT	C18-C5-C4	6.39	121.42	114.24
19	8	302	XAT	C11-C10-C9	-6.39	118.32	127.28
22	1	307	CLA	C4A-NA-C1A	6.39	109.59	106.68
19	8	303	XAT	C38-C25-C26	-6.38	111.80	122.30
19	a	852	XAT	C38-C25-C26	-6.38	111.80	122.30
26	i	101	BCR	C20-C21-C22	-6.38	118.33	127.28
22	9	318	CLA	C4A-NA-C1A	6.37	109.59	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	7	313	CLA	C4A-NA-C1A	6.35	109.58	106.68
22	b	819	CLA	C4A-NA-C1A	6.35	109.58	106.68
22	7	309	CLA	C4A-NA-C1A	6.35	109.58	106.68
22	1	313	CLA	C4A-NA-C1A	6.35	109.58	106.68
22	a	818	CLA	C4A-NA-C1A	6.35	109.58	106.68
22	b	834	CLA	C4A-NA-C1A	6.34	109.57	106.68
22	b	813	CLA	C4A-NA-C1A	6.34	109.57	106.68
22	a	815	CLA	C4A-NA-C1A	6.34	109.57	106.68
19	1	302	XAT	C18-C5-C4	6.31	121.33	114.24
18	8	304	A1L1F	O15-C20-C17	6.31	122.10	115.05
22	1	311	CLA	C4A-NA-C1A	6.31	109.56	106.68
22	a	814	CLA	C4A-NA-C1A	6.31	109.56	106.68
22	1	314	CLA	C4A-NA-C1A	6.28	109.54	106.68
22	b	825	CLA	C4A-NA-C1A	6.28	109.54	106.68
22	8	308	CLA	C4A-NA-C1A	6.26	109.53	106.68
22	a	813	CLA	C4A-NA-C1A	6.25	109.53	106.68
22	a	820	CLA	C4A-NA-C1A	6.25	109.53	106.68
22	7	311	CLA	C4A-NA-C1A	6.24	109.53	106.68
20	9	305	45D	C31-C29-C25	-6.21	118.57	127.28
22	1	310	CLA	C4A-NA-C1A	6.21	109.51	106.68
22	a	802	CLA	C4A-NA-C1A	6.21	109.51	106.68
19	1	303	XAT	C18-C5-C4	6.20	121.20	114.24
22	1	309	CLA	C4A-NA-C1A	6.19	109.50	106.68
19	7	304	XAT	C18-C5-C4	6.16	121.16	114.24
22	b	840	CLA	C4A-NA-C1A	6.16	109.49	106.68
22	b	829	CLA	C4A-NA-C1A	6.15	109.48	106.68
22	b	811	CLA	C4A-NA-C1A	6.12	109.47	106.68
22	9	315	CLA	C4A-NA-C1A	6.09	109.46	106.68
19	a	852	XAT	C26-C27-C28	-6.08	113.13	125.99
22	b	837	CLA	C4A-NA-C1A	6.07	109.45	106.68
22	9	309	CLA	C4A-NA-C1A	6.07	109.45	106.68
22	b	816	CLA	C4A-NA-C1A	6.05	109.44	106.68
22	b	828	CLA	C4A-NA-C1A	6.05	109.44	106.68
26	b	842	BCR	C7-C8-C9	-6.04	117.30	126.23
22	b	817	CLA	C4A-NA-C1A	6.03	109.43	106.68
18	1	304	A1L1F	O15-C20-C17	6.03	121.78	115.05
22	b	804	CLA	C4A-NA-C1A	6.02	109.42	106.68
22	b	802	CLA	C4A-NA-C1A	6.00	109.42	106.68
19	8	301	XAT	C18-C5-C4	5.98	120.96	114.24
19	7	303	XAT	C18-C5-C4	5.96	120.94	114.24
19	7	301	XAT	C38-C25-C24	5.95	120.93	114.24
19	7	301	XAT	C38-C25-C26	-5.94	112.53	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	h	204	A1L1F	C37-C38-C39	-5.93	118.96	127.28
19	8	302	XAT	C18-C5-C4	5.91	120.88	114.24
22	8	310	CLA	C4A-NA-C1A	5.89	109.37	106.68
26	b	849	BCR	C16-C17-C18	-5.88	119.04	127.28
19	7	301	XAT	C31-C30-C29	-5.87	119.04	127.28
18	h	204	A1L1F	O15-C20-C17	5.86	121.60	115.05
19	j	101	XAT	C6-C7-C8	-5.86	113.60	125.99
26	a	850	BCR	C20-C21-C22	-5.83	119.10	127.28
22	b	830	CLA	C4A-NA-C1A	5.82	109.33	106.68
19	9	303	XAT	C18-C5-C4	5.78	120.74	114.24
18	1	304	A1L1F	O15-C20-C21	5.77	118.90	113.49
26	b	844	BCR	C24-C23-C22	-5.76	117.71	126.23
26	b	842	BCR	C11-C10-C9	-5.74	119.23	127.28
26	f	801	BCR	C16-C17-C18	-5.72	119.26	127.28
26	b	844	BCR	C7-C8-C9	-5.67	117.85	126.23
19	9	304	XAT	C26-C27-C28	-5.64	114.07	125.99
19	7	305	XAT	C15-C14-C13	-5.56	119.47	127.28
26	b	845	BCR	C16-C17-C18	-5.54	119.51	127.28
19	9	303	XAT	C15-C14-C13	-5.52	119.54	127.28
26	j	104	BCR	C28-C27-C26	-5.49	104.27	114.06
19	8	303	XAT	C26-C27-C28	-5.48	114.40	125.99
26	f	801	BCR	C20-C21-C22	-5.45	119.63	127.28
26	f	804	BCR	C15-C14-C13	-5.45	119.64	127.28
19	a	852	XAT	C18-C5-C6	-5.45	113.34	122.30
26	b	844	BCR	C33-C5-C6	-5.43	118.56	124.48
22	a	803	CLA	C4A-NA-C1A	5.39	109.14	106.68
26	b	842	BCR	C15-C14-C13	-5.36	119.77	127.28
26	l	201	BCR	C7-C8-C9	-5.34	118.33	126.23
26	a	849	BCR	C3-C4-C5	-5.32	104.58	114.06
18	8	304	A1L1F	O7-C54-C56	5.31	120.55	111.09
19	7	301	XAT	C35-C34-C33	-5.31	119.84	127.28
18	8	304	A1L1F	C41-C42-C44	-5.30	119.84	127.28
19	7	304	XAT	C11-C10-C9	-5.30	119.85	127.28
23	b	848	DGD	O2G-C1B-C2B	5.28	122.91	111.48
26	b	842	BCR	C3-C4-C5	-5.27	104.67	114.06
26	l	205	BCR	C24-C23-C22	-5.26	118.46	126.23
19	a	852	XAT	C6-C7-C8	-5.25	114.89	125.99
19	a	852	XAT	C18-C5-C4	5.24	120.13	114.24
19	8	303	XAT	C15-C14-C13	-5.21	119.98	127.28
19	9	303	XAT	C26-C27-C28	-5.20	115.00	125.99
19	j	101	XAT	C26-C27-C28	-5.18	115.05	125.99
19	1	302	XAT	C35-C34-C33	-5.15	120.06	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	h	201	BCR	C3-C4-C5	-5.10	104.96	114.06
26	a	847	BCR	C16-C17-C18	-5.09	120.14	127.28
19	8	303	XAT	C6-C7-C8	-5.05	115.32	125.99
20	9	305	45D	C20-C24-C26	-5.05	118.77	126.23
19	7	305	XAT	C26-C27-C28	-5.04	115.33	125.99
26	b	849	BCR	C11-C10-C9	-5.04	120.21	127.28
26	b	849	BCR	C20-C21-C22	-5.01	120.25	127.28
26	a	850	BCR	C16-C17-C18	-5.00	120.27	127.28
26	f	804	BCR	C11-C10-C9	-4.96	120.33	127.28
19	1	302	XAT	C26-C27-C28	-4.95	115.53	125.99
19	1	303	XAT	C6-C7-C8	-4.93	115.58	125.99
26	b	849	BCR	C38-C26-C25	-4.92	119.11	124.48
26	j	104	BCR	C11-C10-C9	-4.91	120.39	127.28
26	a	849	BCR	C16-C17-C18	-4.91	120.39	127.28
19	j	101	XAT	C11-C10-C9	-4.91	120.39	127.28
19	7	303	XAT	C31-C30-C29	-4.90	120.41	127.28
19	7	304	XAT	C26-C27-C28	-4.88	115.67	125.99
26	l	205	BCR	C15-C14-C13	-4.87	120.45	127.28
26	i	101	BCR	C16-C17-C18	-4.87	120.45	127.28
19	1	302	XAT	C6-C7-C8	-4.81	115.82	125.99
26	h	202	BCR	C16-C17-C18	-4.80	120.55	127.28
19	7	304	XAT	C35-C34-C33	-4.79	120.56	127.28
19	7	301	XAT	C6-C7-C8	-4.75	115.94	125.99
26	b	849	BCR	C7-C8-C9	-4.74	119.22	126.23
19	7	304	XAT	C15-C14-C13	-4.72	120.66	127.28
19	9	304	XAT	C15-C14-C13	-4.71	120.67	127.28
18	9	302	A1L1F	O7-C54-C56	4.70	119.46	111.09
19	8	301	XAT	C26-C27-C28	-4.69	116.07	125.99
19	7	305	XAT	C6-C7-C8	-4.68	116.11	125.99
26	b	843	BCR	C11-C10-C9	-4.66	120.75	127.28
19	7	303	XAT	C11-C10-C9	-4.65	120.76	127.28
19	8	302	XAT	C15-C14-C13	-4.64	120.77	127.28
26	b	843	BCR	C7-C8-C9	-4.64	119.38	126.23
26	b	846	BCR	C16-C17-C18	-4.63	120.78	127.28
18	h	204	A1L1F	O7-C54-C56	4.61	119.31	111.09
19	8	302	XAT	C26-C27-C28	-4.55	116.37	125.99
19	7	301	XAT	C27-C28-C29	-4.55	118.47	125.53
19	7	303	XAT	C35-C34-C33	-4.54	120.91	127.28
19	8	302	XAT	C35-C34-C33	-4.52	120.94	127.28
26	a	848	BCR	C16-C17-C18	-4.50	120.97	127.28
18	h	204	A1L1F	O15-C25-C14	-4.47	104.06	116.88
18	9	302	A1L1F	C36-C35-C34	-4.47	121.01	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	a	848	BCR	C15-C14-C13	-4.47	121.02	127.28
26	a	849	BCR	C15-C14-C13	-4.46	121.02	127.28
26	a	850	BCR	C15-C14-C13	-4.46	121.02	127.28
19	7	303	XAT	C26-C27-C28	-4.46	116.57	125.99
26	j	104	BCR	C15-C14-C13	-4.43	121.06	127.28
26	b	844	BCR	C16-C17-C18	-4.43	121.07	127.28
26	b	842	BCR	C16-C17-C18	-4.43	121.07	127.28
19	8	301	XAT	C35-C34-C33	-4.39	121.12	127.28
26	b	846	BCR	C33-C5-C6	-4.38	119.70	124.48
19	j	101	XAT	C35-C34-C33	-4.38	121.13	127.28
18	9	302	A1L1F	C14-C29-C30	-4.38	118.02	125.47
18	h	204	A1L1F	C25-C14-C29	-4.35	116.80	125.99
26	j	104	BCR	C16-C17-C18	-4.34	121.20	127.28
20	9	305	45D	C42-C38-C36	-4.32	121.22	127.28
26	f	804	BCR	C24-C23-C22	-4.31	119.85	126.23
18	1	304	A1L1F	O7-C54-C56	4.31	118.78	111.09
18	h	204	A1L1F	C41-C42-C44	-4.28	121.28	127.28
19	9	304	XAT	C18-C5-C4	4.27	119.04	114.24
26	a	850	BCR	C38-C26-C25	-4.27	119.83	124.48
26	j	104	BCR	C7-C8-C9	-4.26	119.93	126.23
26	b	843	BCR	C15-C14-C13	-4.26	121.30	127.28
19	7	303	XAT	C15-C14-C13	-4.26	121.31	127.28
18	1	304	A1L1F	C37-C38-C39	-4.25	121.31	127.28
26	l	205	BCR	C20-C21-C22	-4.25	121.31	127.28
26	b	845	BCR	C24-C23-C22	-4.25	119.95	126.23
26	l	201	BCR	C15-C14-C13	-4.25	121.32	127.28
26	b	844	BCR	C15-C14-C13	-4.25	121.32	127.28
26	h	202	BCR	C33-C5-C6	-4.25	119.85	124.48
26	h	201	BCR	C16-C17-C18	-4.23	121.34	127.28
17	9	301	A1L1G	C37-C36-C35	4.22	132.15	123.52
18	8	304	A1L1F	C41-C40-C39	-4.21	114.81	126.36
26	f	804	BCR	C7-C8-C9	-4.21	120.00	126.23
21	a	845	LHG	O7-C7-C8	4.20	120.56	111.48
26	l	201	BCR	C33-C5-C6	-4.20	119.90	124.48
26	b	845	BCR	C20-C21-C22	-4.20	121.39	127.28
18	8	304	A1L1F	C32-C31-C30	-4.19	121.40	127.23
19	7	305	XAT	C11-C10-C9	-4.16	121.45	127.28
18	1	304	A1L1F	C17-C20-C21	4.15	118.91	114.24
26	b	845	BCR	C7-C8-C9	-4.15	120.09	126.23
26	a	848	BCR	C11-C10-C9	-4.14	121.48	127.28
26	a	847	BCR	C38-C26-C25	-4.13	119.98	124.48
26	b	845	BCR	C16-C15-C14	-4.11	115.10	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	b	841	PQN	C11-C12-C13	-4.11	119.75	126.83
21	b	847	LHG	O7-C7-C8	4.09	120.33	111.48
28	a	853	LMG	O7-C10-C11	4.09	120.33	111.48
26	f	804	BCR	C33-C5-C6	-4.08	120.03	124.48
26	l	205	BCR	C38-C26-C25	-4.07	120.04	124.48
26	b	845	BCR	C15-C14-C13	-4.05	121.60	127.28
20	9	305	45D	C32-C30-C26	-4.05	121.60	127.28
26	f	801	BCR	C3-C4-C5	-4.05	106.84	114.06
19	9	304	XAT	C18-C5-C6	-4.04	115.65	122.30
26	b	842	BCR	C28-C27-C26	-4.03	106.87	114.06
18	9	302	A1L1F	O15-C20-C17	4.02	119.54	115.05
18	8	304	A1L1F	C37-C36-C35	-4.00	115.33	123.52
19	7	303	XAT	C6-C7-C8	-4.00	117.54	125.99
19	a	852	XAT	C31-C30-C29	-3.99	121.68	127.28
21	a	846	LHG	O7-C7-C8	3.98	120.09	111.48
26	l	201	BCR	C11-C10-C9	-3.97	121.71	127.28
28	j	105	LMG	O7-C10-C11	3.97	120.07	111.48
26	f	804	BCR	C38-C26-C25	-3.97	120.15	124.48
26	i	101	BCR	C7-C8-C9	-3.97	120.37	126.23
21	9	317	LHG	O7-C7-C8	3.96	120.06	111.48
26	b	845	BCR	C28-C27-C26	-3.96	106.99	114.06
19	j	101	XAT	C15-C14-C13	-3.93	121.76	127.28
19	1	303	XAT	C26-C27-C28	-3.92	117.70	125.99
22	b	804	CLA	O2D-CGD-O1D	-3.91	116.23	123.85
26	a	847	BCR	C20-C21-C22	-3.90	121.81	127.28
26	l	205	BCR	C33-C5-C6	-3.89	120.23	124.48
26	f	804	BCR	C20-C21-C22	-3.89	121.82	127.28
26	l	201	BCR	C16-C17-C18	-3.88	121.84	127.28
19	7	301	XAT	C15-C14-C13	-3.86	121.86	127.28
26	b	846	BCR	C15-C14-C13	-3.85	121.88	127.28
23	8	315	DGD	O2G-C1B-C2B	3.83	119.78	111.48
26	l	205	BCR	C16-C17-C18	-3.82	121.92	127.28
26	a	850	BCR	C33-C5-C6	-3.82	120.31	124.48
18	h	204	A1L1F	C36-C35-C34	-3.82	121.92	127.28
19	8	301	XAT	C15-C14-C13	-3.81	121.93	127.28
20	9	305	45D	C41-C37-C35	-3.81	121.94	127.28
26	f	804	BCR	C16-C17-C18	-3.80	121.94	127.28
26	f	801	BCR	C16-C15-C14	-3.80	115.75	123.52
26	a	849	BCR	C28-C27-C26	-3.79	107.30	114.06
22	a	806	CLA	O2D-CGD-O1D	-3.79	116.47	123.85
23	b	848	DGD	O5D-C6D-C5D	-3.79	100.88	109.42
17	1	301	A1L1G	C37-C36-C35	3.78	131.26	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	j	104	BCR	C20-C21-C22	-3.78	121.97	127.28
19	1	303	XAT	C35-C34-C33	-3.77	121.99	127.28
26	h	201	BCR	C15-C14-C13	-3.77	121.99	127.28
24	1	315	SQD	O47-C7-C8	3.75	119.60	111.48
19	a	852	XAT	C35-C34-C33	-3.74	122.03	127.28
18	9	302	A1L1F	C32-C31-C30	-3.73	122.03	127.23
26	a	849	BCR	C4-C5-C6	-3.73	117.66	122.70
26	a	849	BCR	C20-C21-C22	-3.72	122.06	127.28
26	b	843	BCR	C3-C4-C5	-3.69	107.48	114.06
26	h	202	BCR	C7-C8-C9	-3.68	120.78	126.23
26	a	847	BCR	C33-C5-C6	-3.68	120.47	124.48
19	8	301	XAT	C11-C10-C9	-3.68	122.12	127.28
17	9	306	A1L1G	C37-C36-C35	3.67	131.04	123.52
19	7	304	XAT	C6-C7-C8	-3.67	118.23	125.99
26	b	843	BCR	C33-C5-C6	-3.65	120.50	124.48
26	b	845	BCR	C3-C4-C5	-3.65	107.56	114.06
19	8	303	XAT	C30-C31-C32	-3.62	112.70	123.20
19	1	302	XAT	C11-C10-C9	-3.62	122.20	127.28
17	7	302	A1L1G	C37-C36-C35	3.62	130.93	123.52
26	i	101	BCR	C33-C5-C6	-3.61	120.55	124.48
22	a	806	CLA	CAA-CBA-CGA	-3.60	102.98	113.21
18	8	304	A1L1F	C31-C32-C33	-3.60	112.77	123.20
19	j	101	XAT	C10-C11-C12	-3.60	112.78	123.20
26	b	845	BCR	C10-C11-C12	-3.59	112.79	123.20
26	h	201	BCR	C24-C23-C22	-3.59	120.92	126.23
19	8	301	XAT	C6-C7-C8	-3.59	118.41	125.99
26	a	847	BCR	C7-C8-C9	-3.59	120.93	126.23
26	h	202	BCR	C38-C26-C25	-3.57	120.58	124.48
26	l	205	BCR	C11-C10-C9	-3.57	122.27	127.28
26	a	849	BCR	C11-C10-C9	-3.57	122.27	127.28
26	l	205	BCR	C3-C4-C5	-3.57	107.70	114.06
19	8	303	XAT	C15-C35-C34	-3.56	116.23	123.52
19	9	303	XAT	C11-C10-C9	-3.56	122.28	127.28
26	a	847	BCR	C15-C14-C13	-3.56	122.29	127.28
26	a	848	BCR	C24-C23-C22	-3.56	120.97	126.23
18	1	304	A1L1F	C8-O7-C54	-3.55	111.58	117.85
19	1	303	XAT	C15-C14-C13	-3.54	122.32	127.28
22	9	312	CLA	CAA-C2A-C3A	-3.54	103.44	113.00
19	9	303	XAT	C35-C34-C33	-3.53	122.32	127.28
19	8	302	XAT	C31-C30-C29	-3.53	122.32	127.28
26	a	849	BCR	C7-C8-C9	-3.52	121.03	126.23
17	9	301	A1L1G	C36-C37-C38	3.51	130.71	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	9	306	A1L1G	C36-C37-C38	3.51	130.70	123.52
20	9	305	45D	C09-C05-C03	-3.51	108.08	113.21
19	7	304	XAT	C31-C30-C29	-3.49	122.38	127.28
18	h	204	A1L1F	C31-C32-C33	-3.49	113.10	123.20
26	a	847	BCR	C24-C23-C22	-3.48	121.09	126.23
19	1	303	XAT	C24-C23-C22	-3.48	104.29	110.79
26	a	848	BCR	C20-C21-C22	-3.47	122.41	127.28
19	9	304	XAT	C35-C34-C33	-3.47	122.42	127.28
26	a	847	BCR	C11-C10-C9	-3.47	122.42	127.28
22	9	314	CLA	O2D-CGD-O1D	-3.46	117.12	123.85
17	7	302	A1L1G	C36-C37-C38	3.45	130.58	123.52
26	i	101	BCR	C28-C27-C26	-3.45	107.90	114.06
19	a	852	XAT	C10-C11-C12	-3.45	113.20	123.20
26	a	849	BCR	C24-C23-C22	-3.45	121.14	126.23
22	a	806	CLA	C3B-C4B-NB	-3.43	107.46	110.53
22	b	804	CLA	CHB-C4A-NA	3.42	129.34	124.40
26	b	846	BCR	C10-C11-C12	-3.39	113.37	123.20
18	9	302	A1L1F	C37-C38-C39	-3.39	122.53	127.28
23	b	848	DGD	C2G-O2G-C1B	-3.39	109.69	117.80
18	8	304	A1L1F	C14-C29-C30	-3.38	119.72	125.47
19	1	303	XAT	C31-C30-C29	-3.38	122.54	127.28
20	9	305	45D	C05-C09-C17	-3.36	106.56	112.71
26	i	101	BCR	C15-C14-C13	-3.35	122.57	127.28
26	h	202	BCR	C11-C10-C9	-3.35	122.58	127.28
18	8	304	A1L1F	C26-C30-C31	-3.35	120.72	124.97
26	a	847	BCR	C3-C4-C5	-3.34	108.09	114.06
18	1	304	A1L1F	C14-C29-C30	-3.34	119.79	125.47
22	9	311	CLA	O2D-CGD-O1D	-3.33	117.36	123.85
26	j	104	BCR	C24-C23-C22	-3.32	121.33	126.23
18	9	302	A1L1F	C25-C14-C29	-3.31	118.99	125.99
26	a	850	BCR	C7-C8-C9	-3.30	121.36	126.23
18	h	204	A1L1F	C17-C20-C21	3.29	117.94	114.24
26	h	201	BCR	C20-C21-C22	-3.28	122.68	127.28
18	9	302	A1L1F	C42-C41-C40	-3.27	113.71	123.20
19	9	304	XAT	C24-C23-C22	-3.27	104.67	110.79
22	b	809	CLA	O2A-CGA-O1A	-3.27	115.45	123.63
17	1	301	A1L1G	C36-C37-C38	3.27	130.21	123.52
26	a	848	BCR	C33-C5-C6	-3.27	120.92	124.48
22	j	103	CLA	O2D-CGD-O1D	-3.26	117.49	123.85
26	i	101	BCR	C11-C10-C9	-3.26	122.71	127.28
22	b	804	CLA	C3B-C4B-NB	-3.26	107.62	110.53
26	l	201	BCR	C38-C26-C25	-3.25	120.94	124.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	9	304	XAT	C11-C10-C9	-3.24	122.73	127.28
17	9	301	A1L1G	C33-C34-C35	3.24	124.11	119.01
19	9	303	XAT	C24-C23-C22	-3.24	104.72	110.79
19	1	302	XAT	C15-C14-C13	-3.24	122.73	127.28
26	b	849	BCR	C24-C23-C22	-3.24	121.44	126.23
19	a	852	XAT	C11-C10-C9	-3.24	122.73	127.28
22	b	830	CLA	C3B-C4B-NB	-3.24	107.64	110.53
25	a	843	PQN	C14-C13-C15	3.23	120.84	115.23
18	9	302	A1L1F	O15-C25-C14	-3.23	107.62	116.88
26	a	848	BCR	C38-C26-C25	-3.23	120.96	124.48
19	8	301	XAT	C24-C23-C22	-3.22	104.76	110.79
18	h	204	A1L1F	C37-C36-C35	-3.22	116.93	123.52
22	a	835	CLA	O2D-CGD-O1D	-3.22	117.58	123.85
26	l	201	BCR	C24-C23-C22	-3.22	121.48	126.23
22	b	820	CLA	O2D-CGD-O1D	-3.21	117.59	123.85
26	a	850	BCR	C11-C10-C9	-3.20	122.79	127.28
22	b	817	CLA	C3B-C4B-NB	-3.19	107.68	110.53
22	1	313	CLA	O2D-CGD-O1D	-3.19	117.64	123.85
22	a	804	CLA	O2D-CGD-O1D	-3.19	117.65	123.85
23	8	315	DGD	O1G-C1A-C2A	3.17	121.50	111.83
19	7	304	XAT	C24-C23-C22	-3.17	104.87	110.79
22	a	818	CLA	O2D-CGD-O1D	-3.17	117.68	123.85
19	7	305	XAT	C35-C34-C33	-3.16	122.84	127.28
22	7	316	CLA	O2D-CGD-O1D	-3.16	117.69	123.85
26	a	849	BCR	C38-C26-C25	-3.16	121.04	124.48
26	a	848	BCR	C3-C4-C5	-3.16	108.42	114.06
26	h	201	BCR	C38-C26-C25	-3.15	121.05	124.48
26	b	843	BCR	C16-C17-C18	-3.15	122.86	127.28
19	9	303	XAT	C6-C7-C8	-3.15	119.34	125.99
26	l	205	BCR	C8-C7-C6	-3.13	118.63	127.00
26	b	849	BCR	C33-C5-C6	-3.13	121.07	124.48
17	9	306	A1L1G	C33-C34-C35	3.12	123.91	119.01
26	b	842	BCR	C20-C21-C22	-3.11	122.91	127.28
20	9	305	45D	C22-C16-C18	3.11	120.20	115.49
19	8	303	XAT	C24-C23-C22	-3.11	104.98	110.79
26	a	848	BCR	C8-C7-C6	-3.11	118.70	127.00
19	a	852	XAT	C35-C15-C14	-3.11	117.16	123.52
18	8	304	A1L1F	O15-C25-C14	-3.10	107.98	116.88
22	b	832	CLA	O2D-CGD-O1D	-3.10	117.81	123.85
18	8	304	A1L1F	C36-C35-C34	-3.10	122.92	127.28
22	a	819	CLA	C3B-C4B-NB	-3.10	107.76	110.53
19	8	302	XAT	C24-C23-C22	-3.10	104.99	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	f	801	BCR	C8-C7-C6	-3.10	118.73	127.00
19	a	852	XAT	C31-C32-C33	-3.09	117.88	126.36
26	b	845	BCR	C11-C10-C9	-3.09	122.94	127.28
18	h	204	A1L1F	C12-C6-C1	-3.09	107.70	110.47
22	b	809	CLA	O2D-CGD-O1D	-3.08	117.85	123.85
19	7	305	XAT	C4-C3-C2	-3.08	105.03	110.79
17	1	301	A1L1G	C33-C34-C35	3.07	123.84	119.01
22	9	318	CLA	C3B-C4B-NB	-3.07	107.79	110.53
22	a	807	CLA	C3B-C4B-NB	-3.07	107.79	110.53
19	1	302	XAT	C31-C30-C29	-3.06	122.98	127.28
22	9	311	CLA	C3B-C4B-NB	-3.05	107.81	110.53
22	8	308	CLA	O2D-CGD-O1D	-3.05	117.91	123.85
22	a	809	CLA	O2D-CGD-O1D	-3.05	117.92	123.85
17	1	301	A1L1G	C40-C39-C38	3.04	123.80	119.01
26	h	201	BCR	C4-C5-C6	-3.04	118.59	122.70
22	a	802	CLA	C3B-C4B-NB	-3.04	107.81	110.53
22	9	313	CLA	O2D-CGD-O1D	-3.04	117.93	123.85
19	8	303	XAT	C4-C3-C2	-3.04	105.11	110.79
22	7	314	CLA	C3B-C4B-NB	-3.04	107.82	110.53
26	b	846	BCR	C8-C7-C6	-3.04	118.89	127.00
19	7	305	XAT	C24-C23-C22	-3.04	105.11	110.79
22	a	832	CLA	C3B-C4B-NB	-3.03	107.82	110.53
17	9	306	A1L1G	C40-C39-C38	3.03	123.78	119.01
26	h	201	BCR	C8-C7-C6	-3.03	118.90	127.00
18	9	302	A1L1F	C26-C30-C31	-3.03	121.12	124.97
22	a	831	CLA	O2D-CGD-O1D	-3.03	117.95	123.85
26	h	202	BCR	C15-C14-C13	-3.03	123.03	127.28
21	a	846	LHG	O8-C23-C24	3.03	120.34	111.15
22	a	813	CLA	C3B-C4B-NB	-3.03	107.83	110.53
18	8	304	A1L1F	C25-C14-C29	-3.02	119.60	125.99
26	b	846	BCR	C21-C20-C19	-3.02	114.44	123.20
26	h	202	BCR	C16-C15-C14	-3.02	117.34	123.52
22	a	818	CLA	C3B-C4B-NB	-3.02	107.83	110.53
22	b	816	CLA	O2D-CGD-O1D	-3.02	117.98	123.85
22	b	834	CLA	O2D-CGD-O1D	-3.01	117.99	123.85
22	9	310	CLA	O2D-CGD-O1D	-3.01	117.99	123.85
22	b	836	CLA	O2D-CGD-O1D	-3.01	117.99	123.85
17	9	301	A1L1G	C27-C34-C35	-3.01	117.94	122.82
22	9	314	CLA	O2D-CGD-CBD	3.01	116.49	111.23
22	a	830	CLA	O2D-CGD-O1D	-3.00	118.01	123.85
22	f	803	CLA	C3B-C4B-NB	-3.00	107.85	110.53
19	9	304	XAT	C30-C31-C32	-3.00	114.51	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	811	CLA	O2D-CGD-O1D	-3.00	118.01	123.85
19	1	302	XAT	C4-C3-C2	-3.00	105.18	110.79
22	a	822	CLA	C3B-C4B-NB	-3.00	107.86	110.53
19	7	301	XAT	C4-C3-C2	-3.00	105.19	110.79
22	a	839	CLA	O2D-CGD-O1D	-2.99	118.03	123.85
22	1	314	CLA	O2D-CGD-O1D	-2.99	118.03	123.85
22	b	808	CLA	O2D-CGD-O1D	-2.98	118.04	123.85
22	b	829	CLA	O2D-CGD-O1D	-2.98	118.04	123.85
22	b	809	CLA	C3B-C4B-NB	-2.98	107.87	110.53
22	a	812	CLA	O2D-CGD-O1D	-2.98	118.04	123.85
26	f	801	BCR	C33-C5-C6	-2.98	121.23	124.48
26	b	843	BCR	C21-C20-C19	-2.98	114.56	123.20
22	7	313	CLA	O2D-CGD-O1D	-2.98	118.05	123.85
19	8	302	XAT	C6-C7-C8	-2.98	119.69	125.99
22	7	314	CLA	CHB-C4A-NA	2.98	128.70	124.40
22	a	841	CLA	C3B-C4B-NB	-2.97	107.88	110.53
25	b	841	PQN	C16-C15-C13	-2.97	106.22	113.47
22	b	839	CLA	O2D-CGD-O1D	-2.97	118.06	123.85
22	b	814	CLA	CHB-C4A-NA	2.97	128.69	124.40
22	a	820	CLA	C1-C2-C3	-2.97	121.33	126.20
22	a	854	CLA	C3B-C4B-NB	-2.97	107.88	110.53
26	b	845	BCR	C33-C5-C6	-2.97	121.25	124.48
26	b	844	BCR	C38-C26-C25	-2.96	121.25	124.48
22	h	203	CLA	O2D-CGD-O1D	-2.96	118.08	123.85
26	a	849	BCR	C2-C1-C6	2.96	114.74	110.44
22	b	824	CLA	O2D-CGD-O1D	-2.96	118.09	123.85
22	b	817	CLA	O2D-CGD-O1D	-2.96	118.09	123.85
17	9	301	A1L1G	C40-C39-C38	2.95	123.66	119.01
22	1	310	CLA	C3B-C4B-NB	-2.95	107.89	110.53
22	b	838	CLA	C3B-C4B-NB	-2.95	107.89	110.53
18	8	304	A1L1F	C11-C1-C6	2.95	122.62	119.70
22	b	814	CLA	O2D-CGD-O1D	-2.95	118.10	123.85
22	1	314	CLA	C3B-C4B-NB	-2.95	107.90	110.53
22	a	840	CLA	O2D-CGD-O1D	-2.95	118.11	123.85
19	1	302	XAT	C24-C23-C22	-2.95	105.27	110.79
26	b	843	BCR	C38-C26-C25	-2.95	121.27	124.48
17	7	302	A1L1G	C33-C34-C35	2.95	123.64	119.01
22	j	102	CLA	O2D-CGD-O1D	-2.95	118.11	123.85
22	1	311	CLA	O2D-CGD-O1D	-2.95	118.11	123.85
19	1	302	XAT	C35-C15-C14	-2.94	117.50	123.52
19	a	852	XAT	C24-C23-C22	-2.94	105.29	110.79
22	7	308	CLA	O2D-CGD-O1D	-2.94	118.12	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	a	850	BCR	C28-C27-C26	-2.94	108.81	114.06
23	b	848	DGD	O3E-C3E-C2E	-2.94	103.44	110.38
19	j	101	XAT	C4-C3-C2	-2.94	105.29	110.79
22	b	818	CLA	O2D-CGD-O1D	-2.94	118.13	123.85
17	7	302	A1L1G	C40-C39-C38	2.94	123.63	119.01
26	h	202	BCR	C23-C24-C25	-2.94	119.15	127.00
26	b	849	BCR	C16-C15-C14	-2.94	117.51	123.52
22	a	817	CLA	O2D-CGD-O1D	-2.94	118.13	123.85
22	8	314	CLA	C3B-C4B-NB	-2.94	107.91	110.53
26	f	801	BCR	C20-C19-C18	-2.94	118.31	126.36
22	a	808	CLA	C3B-C4B-NB	-2.93	107.91	110.53
17	7	302	A1L1G	C27-C34-C35	-2.93	118.07	122.82
26	b	842	BCR	C4-C5-C6	-2.93	118.75	122.70
22	h	203	CLA	C1-C2-C3	-2.93	121.40	126.20
17	9	306	A1L1G	C28-C39-C38	-2.93	118.08	122.82
19	1	303	XAT	C4-C3-C2	-2.92	105.32	110.79
22	a	820	CLA	O2D-CGD-O1D	-2.92	118.16	123.85
22	8	313	CLA	C3B-C4B-NB	-2.92	107.92	110.53
19	1	303	XAT	C10-C11-C12	-2.92	114.75	123.20
22	a	842	CLA	C3B-C4B-NB	-2.92	107.93	110.53
18	1	304	A1L1F	C26-O13-C45	2.92	121.75	115.64
17	9	306	A1L1G	C27-C34-C35	-2.92	118.09	122.82
26	a	848	BCR	C7-C8-C9	-2.91	121.92	126.23
22	8	310	CLA	C3B-C4B-NB	-2.91	107.93	110.53
22	b	819	CLA	C3B-C4B-NB	-2.91	107.93	110.53
19	9	304	XAT	C4-C3-C2	-2.91	105.34	110.79
22	8	306	CLA	O2D-CGD-O1D	-2.91	118.18	123.85
22	b	805	CLA	O2D-CGD-O1D	-2.91	118.19	123.85
22	l	202	CLA	O2D-CGD-O1D	-2.91	118.19	123.85
22	7	312	CLA	O2D-CGD-O1D	-2.91	118.19	123.85
22	1	312	CLA	C3B-C4B-NB	-2.90	107.94	110.53
22	a	804	CLA	C1-C2-C3	-2.90	121.44	126.20
17	1	301	A1L1G	C28-C39-C38	-2.90	118.11	122.82
22	1	307	CLA	O2D-CGD-O1D	-2.90	118.20	123.85
22	b	837	CLA	O2D-CGD-O1D	-2.90	118.20	123.85
19	9	304	XAT	C15-C35-C34	-2.90	117.58	123.52
22	b	816	CLA	C3B-C4B-NB	-2.90	107.94	110.53
22	b	806	CLA	O2D-CGD-O1D	-2.90	118.21	123.85
22	b	826	CLA	O2D-CGD-O1D	-2.89	118.21	123.85
22	9	313	CLA	C3B-C4B-NB	-2.89	107.95	110.53
22	a	813	CLA	O2D-CGD-O1D	-2.89	118.22	123.85
17	1	301	A1L1G	C27-C34-C35	-2.89	118.14	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	8	311	CLA	O2D-CGD-O1D	-2.88	118.23	123.85
17	7	302	A1L1G	C28-C39-C38	-2.88	118.14	122.82
26	b	846	BCR	C15-C16-C17	-2.88	117.62	123.52
22	a	837	CLA	O2D-CGD-O1D	-2.88	118.24	123.85
18	h	204	A1L1F	C26-C30-C31	-2.88	121.31	124.97
22	a	828	CLA	C3B-C4B-NB	-2.88	107.96	110.53
22	8	309	CLA	C3B-C4B-NB	-2.88	107.96	110.53
22	a	816	CLA	O2D-CGD-O1D	-2.88	118.25	123.85
17	9	301	A1L1G	C28-C39-C38	-2.88	118.16	122.82
26	h	201	BCR	C10-C11-C12	-2.87	114.87	123.20
22	b	838	CLA	O2D-CGD-O1D	-2.87	118.26	123.85
22	7	317	CLA	C3B-C4B-NB	-2.87	107.97	110.53
26	i	101	BCR	C29-C30-C25	2.87	114.61	110.44
22	1	312	CLA	O2D-CGD-O1D	-2.87	118.26	123.85
22	a	825	CLA	C3B-C4B-NB	-2.87	107.97	110.53
22	a	823	CLA	O2D-CGD-O1D	-2.87	118.26	123.85
22	7	315	CLA	O2D-CGD-O1D	-2.87	118.27	123.85
22	b	834	CLA	C3B-C4B-NB	-2.87	107.97	110.53
26	b	842	BCR	C2-C1-C6	2.86	114.60	110.44
23	b	848	DGD	O1G-C1A-C2A	2.86	120.56	111.83
26	b	844	BCR	C20-C21-C22	-2.86	123.26	127.28
22	7	307	CLA	C3B-C4B-NB	-2.86	107.97	110.53
22	a	827	CLA	O2D-CGD-O1D	-2.86	118.28	123.85
22	a	811	CLA	O2D-CGD-O1D	-2.86	118.28	123.85
22	a	825	CLA	O2D-CGD-O1D	-2.86	118.28	123.85
22	a	817	CLA	C3B-C4B-NB	-2.85	107.98	110.53
22	8	312	CLA	O2D-CGD-O1D	-2.85	118.30	123.85
22	a	836	CLA	C3B-C4B-NB	-2.85	107.98	110.53
22	1	305	CLA	C3B-C4B-NB	-2.85	107.99	110.53
22	j	102	CLA	C3B-C4B-NB	-2.85	107.99	110.53
22	8	310	CLA	O2D-CGD-O1D	-2.85	118.30	123.85
18	8	304	A1L1F	C17-C20-C21	2.85	117.44	114.24
22	7	311	CLA	C3B-C4B-NB	-2.84	107.99	110.53
22	7	315	CLA	C3B-C4B-NB	-2.84	107.99	110.53
22	a	805	CLA	O2D-CGD-O1D	-2.84	118.31	123.85
19	8	303	XAT	C11-C10-C9	-2.84	123.29	127.28
22	8	312	CLA	C3B-C4B-NB	-2.84	107.99	110.53
22	9	315	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
22	7	306	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
22	b	831	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
22	7	312	CLA	C3B-C4B-NB	-2.84	107.99	110.53
22	a	815	CLA	O2D-CGD-O1D	-2.84	118.32	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	826	CLA	O2D-CGD-O1D	-2.84	118.33	123.85
22	b	821	CLA	O2D-CGD-O1D	-2.84	118.33	123.85
26	f	801	BCR	C10-C11-C12	-2.83	114.99	123.20
22	b	823	CLA	C3B-C4B-NB	-2.83	108.00	110.53
22	7	307	CLA	O2D-CGD-O1D	-2.83	118.33	123.85
22	a	833	CLA	O2D-CGD-O1D	-2.83	118.33	123.85
22	7	310	CLA	O2D-CGD-O1D	-2.83	118.34	123.85
28	a	853	LMG	O8-C28-C29	2.83	120.47	111.83
22	7	315	CLA	CAA-C2A-C3A	-2.83	109.74	116.23
22	a	834	CLA	C3B-C4B-NB	-2.83	108.00	110.53
22	8	313	CLA	O2D-CGD-O1D	-2.83	118.34	123.85
22	b	827	CLA	O2D-CGD-O1D	-2.83	118.34	123.85
22	9	309	CLA	C3B-C4B-NB	-2.83	108.01	110.53
22	a	832	CLA	O2D-CGD-O1D	-2.83	118.35	123.85
22	1	313	CLA	C3B-C4B-NB	-2.82	108.01	110.53
19	7	305	XAT	C15-C35-C34	-2.82	117.74	123.52
18	8	304	A1L1F	O13-C45-C47	2.82	120.44	111.83
22	1	305	CLA	O2D-CGD-O1D	-2.82	118.36	123.85
22	8	305	CLA	O2D-CGD-O1D	-2.82	118.36	123.85
22	1	308	CLA	C1-C2-C3	-2.82	121.58	126.20
25	a	843	PQN	C11-C3-C2	-2.82	120.05	124.89
19	9	303	XAT	C15-C35-C34	-2.82	117.75	123.52
22	8	307	CLA	O2D-CGD-O1D	-2.82	118.36	123.85
22	9	312	CLA	CHB-C4A-NA	2.82	128.47	124.40
26	a	849	BCR	C33-C5-C4	2.82	119.61	113.60
22	1	310	CLA	O2D-CGD-O1D	-2.82	118.36	123.85
19	8	303	XAT	C39-C29-C28	2.82	122.39	118.09
22	b	828	CLA	O2D-CGD-O1D	-2.82	118.37	123.85
22	a	816	CLA	C3B-C4B-NB	-2.82	108.02	110.53
22	a	824	CLA	C3B-C4B-NB	-2.82	108.02	110.53
22	a	833	CLA	C3B-C4B-NB	-2.82	108.02	110.53
26	h	201	BCR	C33-C5-C4	2.81	119.59	113.60
22	h	205	CLA	O2D-CGD-O1D	-2.81	118.38	123.85
22	8	306	CLA	C3B-C4B-NB	-2.81	108.02	110.53
22	a	836	CLA	O2D-CGD-O1D	-2.81	118.38	123.85
22	9	308	CLA	C3B-C4B-NB	-2.81	108.02	110.53
22	l	203	CLA	O2D-CGD-O1D	-2.81	118.39	123.85
22	b	815	CLA	C3B-C4B-NB	-2.81	108.03	110.53
22	7	317	CLA	O2D-CGD-O1D	-2.81	118.39	123.85
18	8	304	A1L1F	O7-C54-O55	-2.81	117.58	122.99
18	1	304	A1L1F	C36-C35-C34	-2.80	123.34	127.28
18	h	204	A1L1F	O13-C45-C47	2.80	120.38	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	1	306	CLA	O2D-CGD-O1D	-2.80	118.39	123.85
18	h	204	A1L1F	C8-O7-C54	-2.80	112.90	117.85
26	h	202	BCR	C21-C20-C19	-2.80	115.08	123.20
19	9	303	XAT	C30-C31-C32	-2.80	115.08	123.20
22	a	820	CLA	C3B-C4B-NB	-2.80	108.03	110.53
22	9	316	CLA	O2D-CGD-O1D	-2.80	118.40	123.85
24	1	315	SQD	O48-C23-C24	2.80	120.37	111.83
19	j	101	XAT	C24-C23-C22	-2.80	105.55	110.79
22	b	828	CLA	C3B-C4B-NB	-2.80	108.03	110.53
18	9	302	A1L1F	O13-C45-C47	2.80	120.37	111.83
22	a	802	CLA	O2D-CGD-O1D	-2.80	118.41	123.85
22	b	840	CLA	O2D-CGD-O1D	-2.80	118.41	123.85
22	b	805	CLA	C3B-C4B-NB	-2.79	108.03	110.53
22	9	311	CLA	CHB-C4A-NA	2.79	128.43	124.40
22	a	828	CLA	O2D-CGD-O1D	-2.79	118.41	123.85
22	b	801	CLA	O2D-CGD-O1D	-2.79	118.41	123.85
22	b	812	CLA	C3B-C4B-NB	-2.79	108.04	110.53
22	a	811	CLA	C3B-C4B-NB	-2.79	108.04	110.53
22	8	309	CLA	O2D-CGD-O1D	-2.79	118.42	123.85
22	a	831	CLA	CMB-C2B-C1B	-2.79	121.17	125.42
22	b	813	CLA	C3B-C4B-NB	-2.79	108.04	110.53
22	9	312	CLA	O2D-CGD-O1D	-2.79	118.43	123.85
22	a	821	CLA	O2D-CGD-O1D	-2.79	118.43	123.85
22	9	308	CLA	O2D-CGD-O1D	-2.78	118.43	123.85
26	b	842	BCR	C38-C26-C25	-2.78	121.45	124.48
22	a	841	CLA	CHB-C4A-NA	2.78	128.42	124.40
22	j	103	CLA	C3B-C4B-NB	-2.78	108.05	110.53
26	b	842	BCR	C24-C23-C22	-2.78	122.12	126.23
22	1	308	CLA	O2D-CGD-O1D	-2.78	118.44	123.85
22	f	802	CLA	O2D-CGD-O1D	-2.78	118.44	123.85
19	7	301	XAT	C11-C10-C9	-2.78	123.38	127.28
22	9	310	CLA	C3B-C4B-NB	-2.78	108.05	110.53
22	b	830	CLA	O2D-CGD-O1D	-2.78	118.44	123.85
22	b	815	CLA	O2D-CGD-O1D	-2.77	118.45	123.85
22	a	839	CLA	C3B-C4B-NB	-2.77	108.05	110.53
22	b	823	CLA	O2D-CGD-O1D	-2.77	118.45	123.85
26	j	104	BCR	C23-C24-C25	-2.77	119.59	127.00
22	7	306	CLA	C3B-C4B-NB	-2.77	108.06	110.53
22	b	829	CLA	CMB-C2B-C1B	-2.77	121.20	125.42
26	i	101	BCR	C20-C19-C18	-2.77	118.77	126.36
22	9	310	CLA	CHB-C4A-NA	2.77	128.40	124.40
22	a	844	CLA	O2D-CGD-O1D	-2.77	118.46	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	7	309	CLA	C3B-C4B-NB	-2.77	108.06	110.53
22	l	203	CLA	C3B-C4B-NB	-2.77	108.06	110.53
22	a	824	CLA	O2D-CGD-O1D	-2.76	118.47	123.85
20	9	305	45D	C23-C19-C07	-2.76	119.61	127.00
22	a	815	CLA	C3B-C4B-NB	-2.76	108.06	110.53
22	b	832	CLA	C3B-C4B-NB	-2.76	108.06	110.53
26	h	202	BCR	C24-C23-C22	-2.76	122.15	126.23
22	b	819	CLA	O2D-CGD-O1D	-2.76	118.47	123.85
26	b	842	BCR	C23-C24-C25	-2.76	119.62	127.00
20	9	305	45D	C24-C20-C08	-2.76	119.62	127.00
21	9	317	LHG	O8-C23-C24	2.76	120.25	111.83
22	a	803	CLA	O2D-CGD-O1D	-2.76	118.47	123.85
22	a	841	CLA	O2D-CGD-O1D	-2.76	118.48	123.85
22	b	822	CLA	O2D-CGD-O1D	-2.76	118.48	123.85
26	h	201	BCR	C7-C8-C9	-2.76	122.16	126.23
26	h	201	BCR	C2-C1-C6	2.75	114.44	110.44
26	m	101	BCR	C27-C26-C25	2.75	126.42	122.70
22	b	801	CLA	C3B-C4B-NB	-2.75	108.08	110.53
22	b	836	CLA	C3B-C4B-NB	-2.75	108.08	110.53
22	a	807	CLA	O2D-CGD-O1D	-2.75	118.50	123.85
22	a	838	CLA	O2D-CGD-O1D	-2.75	118.50	123.85
17	1	301	A1L1G	C43-C44-C42	-2.75	118.37	122.82
26	b	849	BCR	C20-C19-C18	-2.75	118.83	126.36
22	b	812	CLA	O2D-CGD-O1D	-2.74	118.50	123.85
22	f	803	CLA	O2D-CGD-O1D	-2.74	118.51	123.85
22	a	819	CLA	O2D-CGD-O1D	-2.74	118.51	123.85
22	a	827	CLA	C3B-C4B-NB	-2.74	108.08	110.53
22	b	835	CLA	O2D-CGD-O1D	-2.74	118.51	123.85
22	a	814	CLA	C3B-C4B-NB	-2.74	108.08	110.53
22	l	204	CLA	O2D-CGD-O1D	-2.74	118.51	123.85
22	h	205	CLA	C3B-C4B-NB	-2.74	108.08	110.53
22	7	311	CLA	O2D-CGD-O1D	-2.74	118.52	123.85
26	h	202	BCR	C20-C21-C22	-2.74	123.44	127.28
22	8	314	CLA	O2D-CGD-O1D	-2.74	118.52	123.85
22	b	825	CLA	O2D-CGD-O1D	-2.73	118.54	123.85
22	a	837	CLA	C3B-C4B-NB	-2.73	108.09	110.53
22	b	840	CLA	C3B-C4B-NB	-2.73	108.09	110.53
22	b	810	CLA	O2D-CGD-O1D	-2.73	118.54	123.85
19	8	302	XAT	C4-C3-C2	-2.73	105.69	110.79
22	a	814	CLA	O2D-CGD-O1D	-2.73	118.54	123.85
19	j	101	XAT	C15-C35-C34	-2.73	117.94	123.52
22	a	805	CLA	CHB-C4A-NA	2.72	128.33	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	7	304	XAT	C4-C3-C2	-2.72	105.70	110.79
22	7	310	CLA	C3B-C4B-NB	-2.72	108.10	110.53
19	7	303	XAT	C24-C23-C22	-2.72	105.71	110.79
22	9	309	CLA	O2D-CGD-O1D	-2.71	118.57	123.85
22	b	803	CLA	C3B-C4B-NB	-2.71	108.11	110.53
19	j	101	XAT	C31-C30-C29	-2.71	123.47	127.28
22	b	807	CLA	O2D-CGD-O1D	-2.71	118.58	123.85
22	a	841	CLA	C1-C2-C3	-2.71	121.76	126.20
19	j	101	XAT	C31-C32-C33	-2.70	118.95	126.36
26	b	845	BCR	C35-C13-C12	2.70	122.22	118.09
22	a	808	CLA	O2D-CGD-O1D	-2.70	118.59	123.85
22	7	313	CLA	C3B-C4B-NB	-2.70	108.12	110.53
22	a	810	CLA	C3B-C4B-NB	-2.70	108.12	110.53
19	9	304	XAT	C7-C8-C9	-2.70	121.34	125.53
19	8	301	XAT	C4-C3-C2	-2.70	105.75	110.79
22	b	806	CLA	C3B-C4B-NB	-2.69	108.12	110.53
22	a	812	CLA	C3B-C4B-NB	-2.69	108.13	110.53
22	b	817	CLA	CMB-C2B-C1B	-2.69	121.32	125.42
21	b	847	LHG	O8-C23-C24	2.69	120.04	111.83
22	b	830	CLA	CAA-C2A-C3A	-2.69	110.06	116.23
28	j	105	LMG	O8-C28-C29	2.69	120.03	111.83
18	1	304	A1L1F	O15-C25-C14	-2.69	109.18	116.88
19	8	303	XAT	C35-C34-C33	-2.69	123.51	127.28
21	9	307	LHG	O8-C23-C24	2.69	120.03	111.83
22	b	831	CLA	C3B-C4B-NB	-2.69	108.13	110.53
22	a	802	CLA	C1-C2-C3	-2.68	121.81	126.20
19	9	303	XAT	C4-C3-C2	-2.68	105.79	110.79
18	1	304	A1L1F	C26-C30-C31	-2.67	121.58	124.97
22	b	814	CLA	C3B-C4B-NB	-2.67	108.14	110.53
22	l	203	CLA	CHB-C4A-NA	2.67	128.26	124.40
26	f	801	BCR	C2-C1-C6	2.67	114.32	110.44
20	9	305	45D	C10-C06-C04	-2.67	109.30	113.21
19	8	301	XAT	C7-C8-C9	-2.67	121.38	125.53
19	7	303	XAT	C4-C3-C2	-2.67	105.79	110.79
22	a	810	CLA	O2D-CGD-O1D	-2.67	118.65	123.85
22	1	309	CLA	C3B-C4B-NB	-2.67	108.15	110.53
22	b	837	CLA	C3B-C4B-NB	-2.67	108.15	110.53
22	a	821	CLA	CHB-C4A-NA	2.67	128.25	124.40
18	1	304	A1L1F	O13-C45-C47	2.67	119.96	111.83
22	a	822	CLA	O2D-CGD-O1D	-2.67	118.66	123.85
26	m	101	BCR	C33-C5-C6	-2.66	121.58	124.48
22	a	810	CLA	C1-C2-C3	-2.66	121.83	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	b	841	PQN	C2M-C2-C3	-2.66	120.07	124.45
22	b	824	CLA	C3B-C4B-NB	-2.66	108.15	110.53
22	l	202	CLA	C3B-C4B-NB	-2.66	108.15	110.53
22	a	834	CLA	O2D-CGD-O1D	-2.66	118.67	123.85
26	b	844	BCR	C11-C10-C9	-2.66	123.55	127.28
22	a	842	CLA	O2D-CGD-O1D	-2.66	118.67	123.85
21	a	845	LHG	O8-C23-C24	2.66	119.94	111.83
22	8	311	CLA	C3B-C4B-NB	-2.66	108.16	110.53
20	9	305	45D	C41-C42-C38	-2.66	118.08	123.52
22	a	826	CLA	CHB-C4A-NA	2.66	128.23	124.40
26	b	846	BCR	C24-C23-C22	-2.66	122.31	126.23
22	b	825	CLA	C3B-C4B-NB	-2.65	108.16	110.53
26	a	847	BCR	C16-C15-C14	-2.65	118.09	123.52
22	1	308	CLA	C3B-C4B-NB	-2.65	108.16	110.53
22	a	821	CLA	C3B-C4B-NB	-2.65	108.16	110.53
22	a	801	CLA	C3B-C4B-NB	-2.65	108.17	110.53
22	a	833	CLA	CHB-C4A-NA	2.65	128.22	124.40
26	h	201	BCR	C21-C20-C19	-2.65	115.54	123.20
22	a	835	CLA	CHB-C4A-NA	2.64	128.22	124.40
22	9	315	CLA	C3B-C4B-NB	-2.64	108.17	110.53
22	a	838	CLA	C3B-C4B-NB	-2.64	108.17	110.53
22	a	829	CLA	O2D-CGD-O1D	-2.64	118.70	123.85
22	8	307	CLA	C3B-C4B-NB	-2.64	108.17	110.53
22	7	317	CLA	CHB-C4A-NA	2.63	128.20	124.40
23	b	848	DGD	C1E-O6E-C5E	2.63	118.86	113.72
22	b	822	CLA	C3B-C4B-NB	-2.63	108.18	110.53
22	b	833	CLA	C3B-C4B-NB	-2.63	108.18	110.53
22	9	316	CLA	CHB-C4A-NA	2.63	128.20	124.40
22	9	318	CLA	O2D-CGD-O1D	-2.63	118.73	123.85
26	a	849	BCR	C16-C15-C14	-2.63	118.14	123.52
22	b	833	CLA	O2D-CGD-O1D	-2.63	118.74	123.85
22	8	314	CLA	CAA-C2A-C3A	-2.62	110.22	116.23
22	a	804	CLA	C3B-C4B-NB	-2.61	108.20	110.53
22	j	103	CLA	CHB-C4A-NA	2.61	128.17	124.40
22	1	311	CLA	C3B-C4B-NB	-2.61	108.20	110.53
26	b	845	BCR	C8-C7-C6	-2.61	120.03	127.00
28	a	853	LMG	C8-O7-C10	-2.61	111.56	117.80
26	l	201	BCR	C21-C20-C19	-2.61	115.65	123.20
22	b	835	CLA	C3B-C4B-NB	-2.61	108.20	110.53
22	7	309	CLA	O2D-CGD-O1D	-2.60	118.17	124.08
26	l	201	BCR	C20-C21-C22	-2.60	123.63	127.28
26	b	846	BCR	C34-C9-C8	2.60	122.06	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	j	104	BCR	C27-C26-C25	-2.60	119.19	122.70
26	m	101	BCR	C15-C16-C17	-2.60	118.20	123.52
22	h	203	CLA	CHB-C4A-NA	2.60	128.15	124.40
17	9	306	A1L1G	C43-C44-C42	-2.60	118.60	122.82
22	b	824	CLA	CHB-C4A-NA	2.60	128.15	124.40
26	j	104	BCR	C33-C5-C6	-2.60	121.65	124.48
26	l	205	BCR	C28-C27-C26	-2.60	109.42	114.06
22	a	840	CLA	C3B-C4B-NB	-2.60	108.21	110.53
18	h	204	A1L1F	C27-C34-C33	2.60	122.06	118.09
22	b	808	CLA	C3B-C4B-NB	-2.60	108.21	110.53
26	a	849	BCR	C23-C24-C25	-2.60	120.06	127.00
22	1	307	CLA	C3B-C4B-NB	-2.59	108.22	110.53
19	8	301	XAT	C31-C30-C29	-2.59	123.64	127.28
22	b	802	CLA	O2D-CGD-O1D	-2.59	118.81	123.85
22	a	819	CLA	CHB-C4A-NA	2.59	128.14	124.40
22	b	801	CLA	CHB-C4A-NA	2.59	128.13	124.40
17	7	302	A1L1G	C43-C44-C42	-2.59	118.63	122.82
22	b	806	CLA	CHB-C4A-NA	2.58	128.13	124.40
22	b	817	CLA	CHB-C4A-NA	2.58	128.13	124.40
23	b	848	DGD	O2G-C1B-O1B	-2.58	117.67	123.70
22	b	821	CLA	C3B-C4B-NB	-2.58	108.22	110.53
22	b	820	CLA	C1-C2-C3	-2.58	122.59	126.76
26	b	842	BCR	C21-C20-C19	-2.58	115.72	123.20
19	8	302	XAT	C11-C12-C13	-2.58	119.29	126.36
22	a	810	CLA	CHB-C4A-NA	2.58	128.12	124.40
22	1	312	CLA	CHB-C4A-NA	2.58	128.12	124.40
26	h	202	BCR	C28-C27-C26	-2.57	109.47	114.06
22	1	306	CLA	CHB-C4A-NA	2.57	128.11	124.40
22	1	309	CLA	O2D-CGD-O1D	-2.57	118.84	123.85
22	a	809	CLA	CHB-C4A-NA	2.57	128.11	124.40
22	b	809	CLA	CHB-C4A-NA	2.57	128.11	124.40
22	a	805	CLA	C3B-C4B-NB	-2.57	108.24	110.53
18	h	204	A1L1F	C29-C30-C31	-2.57	115.00	119.00
22	a	807	CLA	CHB-C4A-NA	2.56	128.10	124.40
22	a	835	CLA	C3B-C4B-NB	-2.56	108.24	110.53
22	a	806	CLA	O1D-CGD-CBD	2.56	129.57	124.52
22	a	814	CLA	CHB-C4A-NA	2.56	128.10	124.40
22	a	801	CLA	O2A-CGA-O1A	-2.56	117.23	123.63
26	b	845	BCR	C38-C26-C25	-2.56	121.69	124.48
22	b	803	CLA	O2D-CGD-O1D	-2.56	118.87	123.85
22	a	832	CLA	C1-C2-C3	-2.56	122.63	126.76
22	8	311	CLA	CHB-C4A-NA	2.56	128.09	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	813	CLA	O2D-CGD-O1D	-2.56	118.87	123.85
22	b	835	CLA	CHB-C4A-NA	2.55	128.09	124.40
19	8	301	XAT	C35-C15-C14	-2.55	118.30	123.52
19	1	303	XAT	C35-C15-C14	-2.55	118.30	123.52
22	a	830	CLA	C1-C2-C3	-2.55	122.02	126.20
22	a	832	CLA	CHB-C4A-NA	2.55	128.08	124.40
22	l	204	CLA	C3B-C4B-NB	-2.55	108.26	110.53
22	b	812	CLA	CHB-C4A-NA	2.55	128.08	124.40
26	b	843	BCR	C24-C23-C22	-2.55	122.47	126.23
22	a	854	CLA	O2D-CGD-O1D	-2.55	118.89	123.85
22	1	314	CLA	CHB-C4A-NA	2.54	128.07	124.40
26	a	850	BCR	C10-C11-C12	-2.54	115.83	123.20
22	b	807	CLA	C1-C2-C3	-2.54	122.03	126.20
22	7	316	CLA	CHB-C4A-NA	2.54	128.06	124.40
22	a	804	CLA	CHB-C4A-NA	2.54	128.06	124.40
26	b	842	BCR	C29-C30-C25	2.54	114.12	110.44
22	1	308	CLA	CHB-C4A-NA	2.53	128.06	124.40
22	a	838	CLA	CHB-C4A-NA	2.53	128.06	124.40
18	8	304	A1L1F	C12-C6-C1	-2.53	108.21	110.47
22	a	844	CLA	C3B-C4B-NB	-2.53	108.27	110.53
22	f	802	CLA	CHB-C4A-NA	2.53	128.05	124.40
26	b	846	BCR	C20-C21-C22	-2.53	123.73	127.28
26	b	849	BCR	C15-C14-C13	-2.53	123.73	127.28
22	a	825	CLA	CHB-C4A-NA	2.53	128.05	124.40
26	b	842	BCR	C33-C5-C4	2.53	118.98	113.60
22	9	312	CLA	C3B-C4B-NB	-2.52	108.28	110.53
22	a	828	CLA	C1-C2-C3	-2.52	122.06	126.20
21	9	307	LHG	O7-C7-C8	2.52	120.19	110.93
19	9	304	XAT	C39-C29-C28	2.52	121.94	118.09
22	b	820	CLA	C3B-C4B-NB	-2.52	108.28	110.53
26	h	202	BCR	C10-C11-C12	-2.52	115.90	123.20
19	9	303	XAT	C7-C8-C9	-2.52	121.62	125.53
26	l	205	BCR	C15-C16-C17	-2.52	118.37	123.52
22	9	313	CLA	CHB-C4A-NA	2.51	128.03	124.40
22	b	833	CLA	CHB-C4A-NA	2.51	128.03	124.40
19	7	304	XAT	C11-C12-C13	-2.51	119.48	126.36
22	a	808	CLA	CHB-C4A-NA	2.51	128.02	124.40
22	b	813	CLA	CHB-C4A-NA	2.51	128.02	124.40
22	b	827	CLA	C3B-C4B-NB	-2.51	108.29	110.53
22	a	802	CLA	CHB-C4A-NA	2.51	128.02	124.40
22	f	803	CLA	CHB-C4A-NA	2.51	128.02	124.40
22	l	204	CLA	CHB-C4A-NA	2.51	128.02	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	820	CLA	CHB-C4A-NA	2.51	128.02	124.40
23	b	848	DGD	C6D-O5D-C1E	2.50	119.17	113.80
22	1	306	CLA	C3B-C4B-NB	-2.50	108.30	110.53
26	f	804	BCR	C15-C16-C17	-2.50	118.40	123.52
22	b	820	CLA	O2D-CGD-CBD	2.50	115.61	111.23
26	l	201	BCR	C28-C27-C26	-2.50	109.59	114.06
22	a	827	CLA	CHB-C4A-NA	2.50	128.01	124.40
22	b	831	CLA	CHB-C4A-NA	2.50	128.01	124.40
26	a	850	BCR	C38-C26-C27	2.50	118.93	113.60
22	b	807	CLA	C3B-C4B-NB	-2.50	108.30	110.53
22	a	830	CLA	C3B-C4B-NB	-2.50	108.30	110.53
18	1	304	A1L1F	C31-C32-C33	-2.50	115.97	123.20
22	a	822	CLA	CHB-C4A-NA	2.50	128.00	124.40
22	a	804	CLA	O2D-CGD-CBD	2.50	115.59	111.23
22	a	817	CLA	CHB-C4A-NA	2.49	128.00	124.40
18	1	304	A1L1F	C27-C34-C33	2.49	121.90	118.09
22	8	312	CLA	CHB-C4A-NA	2.49	128.00	124.40
18	h	204	A1L1F	C23-C22-C21	-2.49	106.13	110.79
22	b	836	CLA	CHB-C4A-NA	2.49	128.00	124.40
22	a	809	CLA	C3B-C4B-NB	-2.49	108.31	110.53
26	j	104	BCR	C38-C26-C27	2.49	118.90	113.60
22	8	308	CLA	CHB-C4A-NA	2.49	127.99	124.40
22	a	806	CLA	CHB-C4A-NA	2.49	127.99	124.40
22	a	806	CLA	C6-C5-C3	-2.49	107.41	113.47
22	b	807	CLA	CHB-C4A-NA	2.49	127.99	124.40
22	b	805	CLA	CHB-C4A-NA	2.48	127.99	124.40
18	h	204	A1L1F	C41-C40-C39	-2.48	119.55	126.36
26	a	848	BCR	C10-C11-C12	-2.48	116.00	123.20
26	b	842	BCR	C15-C16-C17	-2.48	118.44	123.52
22	8	314	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	h	205	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	a	816	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	a	836	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	a	840	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	b	819	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	7	308	CLA	CHB-C4A-NA	2.48	127.97	124.40
22	f	802	CLA	C3B-C4B-NB	-2.47	108.32	110.53
22	a	835	CLA	O2D-CGD-CBD	2.47	115.55	111.23
22	9	314	CLA	C3B-C4B-NB	-2.47	108.32	110.53
22	a	826	CLA	C3B-C4B-NB	-2.47	108.32	110.53
22	a	837	CLA	CHB-C4A-NA	2.47	127.96	124.40
22	8	309	CLA	C1-C2-C3	-2.47	122.15	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	b	843	BCR	C15-C16-C17	-2.47	118.47	123.52
22	b	811	CLA	CMB-C2B-C3B	2.47	130.08	123.53
22	a	815	CLA	CHB-C4A-NA	2.46	127.96	124.40
22	8	313	CLA	CHB-C4A-NA	2.46	127.95	124.40
22	7	313	CLA	CHB-C4A-NA	2.46	127.95	124.40
18	9	302	A1L1F	C36-C37-C38	-2.46	118.48	123.52
18	h	204	A1L1F	O7-C54-O55	-2.46	118.24	122.99
19	7	303	XAT	C19-C9-C10	-2.46	118.83	122.82
22	7	306	CLA	CHB-C4A-NA	2.46	127.95	124.40
22	l	202	CLA	CHB-C4A-NA	2.46	127.95	124.40
22	b	839	CLA	CHB-C4A-NA	2.46	127.95	124.40
22	a	802	CLA	CMB-C2B-C1B	-2.46	121.67	125.42
22	1	313	CLA	CAA-C2A-C3A	-2.46	110.59	116.23
26	b	845	BCR	C39-C30-C25	-2.46	106.38	110.24
22	8	309	CLA	CHB-C4A-NA	2.46	127.95	124.40
22	b	834	CLA	CHB-C4A-NA	2.46	127.95	124.40
22	b	810	CLA	C1-C2-C3	-2.46	122.17	126.20
22	a	803	CLA	C3B-C4B-NB	-2.46	108.34	110.53
26	h	201	BCR	C33-C5-C6	-2.46	121.80	124.48
22	8	307	CLA	CHB-C4A-NA	2.45	127.94	124.40
26	b	846	BCR	C38-C26-C25	-2.45	121.81	124.48
22	a	811	CLA	CHB-C4A-NA	2.45	127.94	124.40
19	7	301	XAT	C35-C15-C14	-2.45	118.50	123.52
18	8	304	A1L1F	C23-C22-C21	-2.45	106.21	110.79
28	j	105	LMG	C8-O7-C10	-2.45	111.93	117.80
22	b	838	CLA	CHB-C4A-NA	2.45	127.93	124.40
22	b	827	CLA	CHB-C4A-NA	2.45	127.93	124.40
22	7	307	CLA	CHB-C4A-NA	2.44	127.93	124.40
22	1	310	CLA	CHB-C4A-NA	2.44	127.93	124.40
26	a	850	BCR	C8-C7-C6	-2.44	120.47	127.00
22	a	854	CLA	CHB-C4A-NA	2.44	127.93	124.40
26	b	845	BCR	C21-C20-C19	-2.44	116.12	123.20
22	7	315	CLA	CHB-C4A-NA	2.44	127.92	124.40
22	a	818	CLA	CHB-C4A-NA	2.44	127.92	124.40
17	9	301	A1L1G	C43-C44-C42	-2.44	118.86	122.82
22	b	821	CLA	C1-C2-C3	-2.44	122.20	126.20
22	7	311	CLA	CHB-C4A-NA	2.44	127.92	124.40
26	j	104	BCR	C15-C16-C17	-2.44	118.53	123.52
22	8	305	CLA	CHB-C4A-NA	2.44	127.92	124.40
22	a	812	CLA	CHB-C4A-NA	2.44	127.92	124.40
22	1	307	CLA	CHB-C4A-NA	2.44	127.91	124.40
19	8	303	XAT	C28-C29-C30	-2.43	115.18	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	823	CLA	CHB-C4A-NA	2.43	127.91	124.40
22	b	821	CLA	CHB-C4A-NA	2.43	127.91	124.40
22	8	308	CLA	C1-C2-C3	-2.43	122.21	126.20
19	7	305	XAT	C31-C30-C29	-2.43	123.87	127.28
22	9	311	CLA	O2D-CGD-CBD	2.43	115.47	111.23
22	9	308	CLA	CHB-C4A-NA	2.43	127.90	124.40
22	8	305	CLA	C3B-C4B-NB	-2.43	108.36	110.53
18	9	302	A1L1F	O7-C54-O55	-2.43	118.31	122.99
22	b	811	CLA	CAB-C3B-C2B	2.43	129.98	123.53
22	b	839	CLA	C3B-C4B-NB	-2.42	108.37	110.53
22	7	310	CLA	CHB-C4A-NA	2.42	127.89	124.40
25	b	841	PQN	C14-C13-C15	2.42	119.43	115.23
25	b	841	PQN	C11-C3-C2	-2.42	120.74	124.89
26	a	848	BCR	C15-C16-C17	-2.42	118.57	123.52
26	h	202	BCR	C8-C7-C6	-2.42	120.54	127.00
22	a	839	CLA	CHB-C4A-NA	2.42	127.89	124.40
22	7	312	CLA	CHB-C4A-NA	2.42	127.89	124.40
26	f	804	BCR	C28-C27-C26	-2.42	109.75	114.06
19	9	303	XAT	O24-C25-C38	2.42	117.75	115.05
22	9	309	CLA	CHB-C4A-NA	2.42	127.89	124.40
22	a	820	CLA	CHB-C4A-NA	2.42	127.89	124.40
23	8	315	DGD	C2G-O2G-C1B	-2.41	112.02	117.80
26	f	801	BCR	C33-C5-C4	2.41	118.74	113.60
26	a	848	BCR	C21-C20-C19	-2.41	116.20	123.20
22	b	808	CLA	CHB-C4A-NA	2.41	127.88	124.40
22	a	829	CLA	C3B-C4B-NB	-2.41	108.38	110.53
22	7	308	CLA	C3B-C4B-NB	-2.41	108.38	110.53
22	b	815	CLA	CHB-C4A-NA	2.41	127.87	124.40
19	8	303	XAT	C40-C33-C32	2.41	121.77	118.09
22	a	828	CLA	CHB-C4A-NA	2.40	127.87	124.40
22	b	825	CLA	CHB-C4A-NA	2.40	127.87	124.40
22	7	314	CLA	O2D-CGD-O1D	-2.40	119.17	123.85
22	7	314	CLA	C2A-C1A-CHA	2.40	128.03	123.87
26	j	104	BCR	C38-C26-C25	-2.40	121.87	124.48
22	8	310	CLA	CHB-C4A-NA	2.40	127.86	124.40
22	a	823	CLA	C3B-C4B-NB	-2.40	108.39	110.53
22	1	311	CLA	CHB-C4A-NA	2.39	127.86	124.40
22	9	314	CLA	CHB-C4A-NA	2.39	127.85	124.40
19	7	304	XAT	O24-C25-C38	2.39	117.72	115.05
22	b	832	CLA	CHB-C4A-NA	2.39	127.85	124.40
19	8	301	XAT	C30-C31-C32	-2.39	116.28	123.20
22	a	841	CLA	O2A-CGA-O1A	-2.39	117.66	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	813	CLA	C1-C2-C3	-2.39	122.29	126.20
22	9	315	CLA	CHB-C4A-NA	2.39	127.84	124.40
20	9	305	45D	C19-C23-C25	-2.38	122.71	126.23
22	a	833	CLA	C1-C2-C3	-2.38	122.29	126.20
22	b	816	CLA	CHB-C4A-NA	2.38	127.84	124.40
26	a	849	BCR	C21-C20-C19	-2.38	116.30	123.20
26	h	201	BCR	C16-C15-C14	-2.38	118.65	123.52
22	9	316	CLA	C3B-C4B-NB	-2.38	108.41	110.53
19	9	303	XAT	C39-C29-C28	2.38	121.72	118.09
26	a	850	BCR	C16-C15-C14	-2.38	118.66	123.52
18	1	304	A1L1F	O7-C54-O55	-2.37	118.41	122.99
19	8	301	XAT	O24-C25-C38	2.37	117.70	115.05
19	8	302	XAT	C7-C8-C9	-2.37	121.85	125.53
26	b	843	BCR	C23-C24-C25	-2.37	120.66	127.00
22	1	313	CLA	CHB-C4A-NA	2.37	127.82	124.40
26	l	201	BCR	C29-C30-C25	2.37	113.88	110.44
17	7	302	A1L1G	C17-C20-C21	2.37	116.90	114.24
22	b	822	CLA	CHB-C4A-NA	2.37	127.82	124.40
26	b	844	BCR	C28-C27-C26	-2.37	109.83	114.06
22	7	316	CLA	C3B-C4B-NB	-2.37	108.42	110.53
26	b	842	BCR	C11-C12-C13	-2.37	119.87	126.36
22	b	835	CLA	C1-C2-C3	-2.37	122.32	126.20
22	a	834	CLA	CHB-C4A-NA	2.37	127.82	124.40
22	j	102	CLA	CHB-C4A-NA	2.37	127.81	124.40
22	b	835	CLA	CMB-C2B-C1B	-2.37	121.82	125.42
22	1	305	CLA	CHB-C4A-NA	2.37	127.81	124.40
26	a	847	BCR	C23-C24-C25	-2.36	120.68	127.00
22	a	834	CLA	C1-C2-C3	-2.36	122.33	126.20
22	7	309	CLA	CHB-C4A-NA	2.36	127.81	124.40
22	a	842	CLA	CHB-C4A-NA	2.36	127.81	124.40
22	8	306	CLA	CHB-C4A-NA	2.36	127.81	124.40
26	l	201	BCR	C15-C16-C17	-2.36	118.69	123.52
22	b	810	CLA	C3B-C4B-NB	-2.36	108.42	110.53
19	j	101	XAT	C39-C29-C28	2.36	121.69	118.09
20	9	305	45D	C21-C15-C17	2.36	119.06	115.49
22	9	318	CLA	CHB-C4A-NA	2.36	127.80	124.40
22	b	823	CLA	CHB-C4A-NA	2.36	127.80	124.40
19	7	301	XAT	C31-C32-C33	-2.36	119.90	126.36
19	a	852	XAT	C19-C9-C8	2.36	121.69	118.09
26	b	844	BCR	C7-C6-C5	-2.35	116.13	121.56
26	b	843	BCR	C28-C27-C26	-2.35	109.86	114.06
22	b	818	CLA	CHB-C4A-NA	2.35	127.80	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	824	CLA	CHB-C4A-NA	2.35	127.79	124.40
22	7	316	CLA	O2D-CGD-CBD	2.35	115.34	111.23
19	8	303	XAT	O4-C5-C18	2.35	117.67	115.05
22	a	831	CLA	CHB-C4A-NA	2.35	127.79	124.40
26	b	849	BCR	C23-C24-C25	-2.35	120.73	127.00
18	9	302	A1L1F	C26-O13-C45	2.35	120.56	115.64
22	b	811	CLA	CHB-C4A-NA	2.35	127.79	124.40
22	a	810	CLA	O2A-CGA-O1A	-2.35	117.76	123.63
26	f	804	BCR	C11-C12-C13	-2.35	119.93	126.36
22	b	837	CLA	C1-C2-C3	-2.34	122.36	126.20
22	a	813	CLA	CHB-C4A-NA	2.34	127.78	124.40
18	9	302	A1L1F	C31-C32-C33	-2.34	116.41	123.20
22	b	830	CLA	CHB-C4A-NA	2.34	127.78	124.40
26	m	101	BCR	C8-C7-C6	-2.34	120.75	127.00
19	7	305	XAT	C30-C31-C32	-2.34	116.42	123.20
22	1	309	CLA	CHB-C4A-NA	2.34	127.77	124.40
26	i	101	BCR	C16-C15-C14	-2.33	118.74	123.52
22	b	810	CLA	CHB-C4A-NA	2.33	127.77	124.40
26	b	844	BCR	C34-C9-C10	-2.33	119.04	122.82
22	a	805	CLA	O2A-CGA-O1A	-2.33	117.79	123.63
26	b	844	BCR	C37-C22-C21	-2.33	119.04	122.82
22	h	203	CLA	C3B-C4B-NB	-2.33	108.45	110.53
17	1	301	A1L1G	C14-C29-C30	-2.33	121.50	125.47
22	8	308	CLA	O2A-CGA-O1A	-2.33	117.81	123.63
22	b	811	CLA	C3B-C4B-NB	-2.32	107.92	110.33
22	a	836	CLA	C1-C2-C3	-2.32	123.00	126.76
26	b	845	BCR	C34-C9-C8	2.32	121.63	118.09
26	l	201	BCR	C23-C24-C25	-2.32	120.80	127.00
17	9	301	A1L1G	C14-C29-C30	-2.32	121.53	125.47
26	a	848	BCR	C16-C15-C14	-2.32	118.78	123.52
26	h	202	BCR	C37-C22-C23	2.31	121.62	118.09
22	b	839	CLA	C1-C2-C3	-2.31	122.41	126.20
22	b	823	CLA	C1-C2-C3	-2.31	122.41	126.20
22	b	829	CLA	C1-C2-C3	-2.31	122.41	126.20
19	7	303	XAT	O24-C25-C38	2.31	117.63	115.05
22	a	818	CLA	O2D-CGD-CBD	2.31	115.27	111.23
22	7	313	CLA	O2A-CGA-O1A	-2.31	117.85	123.63
22	b	834	CLA	C1-C2-C3	-2.30	122.42	126.20
19	8	302	XAT	O24-C25-C38	2.30	117.62	115.05
19	7	303	XAT	C8-C9-C10	2.30	122.63	119.01
22	a	844	CLA	CMB-C2B-C1B	-2.30	121.91	125.42
22	a	844	CLA	CHB-C4A-NA	2.30	127.72	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	818	CLA	C3B-C4B-NB	-2.30	108.47	110.53
19	7	305	XAT	O24-C25-C38	2.30	117.62	115.05
22	b	821	CLA	O2A-CGA-O1A	-2.30	117.88	123.63
19	9	304	XAT	O24-C25-C38	2.30	117.62	115.05
19	j	101	XAT	O24-C25-C38	2.30	117.62	115.05
18	1	304	A1L1F	C37-C36-C35	-2.30	118.82	123.52
22	a	826	CLA	CMB-C2B-C1B	-2.29	121.93	125.42
22	a	833	CLA	CMB-C2B-C1B	-2.29	121.93	125.42
26	b	846	BCR	C35-C13-C12	2.29	121.59	118.09
26	m	101	BCR	C24-C23-C22	-2.29	122.85	126.23
22	7	308	CLA	CMB-C2B-C1B	-2.29	121.93	125.42
22	1	306	CLA	C1-C2-C3	-2.29	122.45	126.20
26	b	845	BCR	C29-C30-C25	2.29	113.76	110.44
22	f	803	CLA	C1-C2-C3	-2.29	122.45	126.20
22	b	840	CLA	CHB-C4A-NA	2.29	127.70	124.40
22	a	844	CLA	C1-C2-C3	-2.29	122.45	126.20
26	i	101	BCR	C10-C11-C12	-2.28	116.59	123.20
22	9	308	CLA	C1-C2-C3	-2.28	122.46	126.20
22	b	837	CLA	CHB-C4A-NA	2.28	127.69	124.40
22	a	816	CLA	C1-C2-C3	-2.28	123.08	126.76
19	1	303	XAT	C27-C28-C29	-2.28	122.00	125.53
26	b	845	BCR	C33-C5-C4	2.27	118.44	113.60
19	7	301	XAT	C24-C23-C22	-2.27	106.54	110.79
17	1	301	A1L1G	C17-C20-C21	2.27	116.80	114.24
22	7	313	CLA	C1-C2-C3	-2.27	122.47	126.20
26	a	849	BCR	C10-C11-C12	-2.27	116.62	123.20
22	b	816	CLA	C1-C2-C3	-2.27	122.48	126.20
26	f	804	BCR	C3-C4-C5	-2.27	110.01	114.06
22	b	809	CLA	O2D-CGD-CBD	2.27	115.19	111.23
22	b	836	CLA	O2A-CGA-O1A	-2.27	117.95	123.63
19	9	304	XAT	C10-C11-C12	-2.27	116.63	123.20
19	7	301	XAT	C10-C11-C12	-2.27	116.64	123.20
22	b	825	CLA	CMB-C2B-C1B	-2.26	121.97	125.42
26	f	801	BCR	C35-C13-C12	2.26	121.54	118.09
26	f	801	BCR	C34-C9-C8	2.26	121.54	118.09
19	7	305	XAT	C39-C29-C28	2.26	121.54	118.09
19	a	852	XAT	O24-C25-C38	2.26	117.57	115.05
22	b	804	CLA	O2A-CGA-O1A	-2.26	117.98	123.63
18	h	204	A1L1F	C26-O13-C45	2.26	120.37	115.64
22	a	827	CLA	CAA-C2A-C1A	-2.26	104.58	111.97
22	b	814	CLA	C1-C2-C3	-2.26	122.50	126.20
22	a	840	CLA	C1-C2-C3	-2.25	122.50	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	817	CLA	CMB-C2B-C3B	2.25	131.85	126.55
22	9	316	CLA	C1-C2-C3	-2.25	122.51	126.20
19	7	301	XAT	C26-C27-C28	-2.25	121.23	125.99
26	l	205	BCR	C38-C26-C27	2.25	118.39	113.60
22	a	806	CLA	O2A-CGA-O1A	-2.25	118.00	123.63
26	a	850	BCR	C20-C19-C18	-2.25	120.20	126.36
22	8	308	CLA	C3B-C4B-NB	-2.25	108.52	110.53
22	f	802	CLA	C1-C2-C3	-2.25	122.51	126.20
22	b	817	CLA	C1-C2-C3	-2.25	122.52	126.20
25	a	843	PQN	C11-C12-C13	-2.24	122.97	126.83
26	h	201	BCR	C11-C10-C9	-2.24	124.13	127.28
19	8	303	XAT	O24-C25-C38	2.24	117.55	115.05
26	f	801	BCR	C15-C14-C13	-2.24	124.14	127.28
19	7	305	XAT	O4-C5-C18	2.24	117.55	115.05
22	a	829	CLA	CMB-C2B-C1B	-2.24	122.01	125.42
22	8	311	CLA	CMB-C2B-C1B	-2.24	122.01	125.42
26	f	801	BCR	C28-C27-C26	-2.24	110.07	114.06
19	1	302	XAT	O4-C5-C18	2.24	117.55	115.05
22	a	809	CLA	CMB-C2B-C1B	-2.24	122.01	125.42
19	1	303	XAT	C19-C9-C8	2.24	121.50	118.09
22	a	811	CLA	C1-C2-C3	-2.24	122.53	126.20
22	b	803	CLA	CHB-C4A-NA	2.23	127.62	124.40
19	8	302	XAT	O4-C5-C18	2.23	117.54	115.05
26	h	202	BCR	C35-C13-C12	2.23	121.50	118.09
26	l	205	BCR	C33-C5-C4	2.23	118.35	113.60
22	a	819	CLA	O2A-CGA-O1A	-2.23	118.05	123.63
19	a	852	XAT	C40-C33-C32	2.23	121.49	118.09
22	b	804	CLA	O1D-CGD-CBD	2.23	128.91	124.52
26	h	201	BCR	C34-C9-C8	2.23	121.49	118.09
22	8	305	CLA	CMB-C2B-C1B	-2.22	122.03	125.42
22	1	312	CLA	O2A-CGA-O1A	-2.22	118.07	123.63
18	9	302	A1L1F	C23-C22-C21	-2.22	106.63	110.79
22	b	826	CLA	CHB-C4A-NA	2.22	127.61	124.40
22	a	838	CLA	C1-C2-C3	-2.22	122.56	126.20
19	8	301	XAT	O4-C5-C18	2.22	117.53	115.05
22	b	835	CLA	CAC-C3C-C4C	2.22	127.68	124.79
26	b	845	BCR	C23-C24-C25	-2.22	121.07	127.00
26	a	849	BCR	C8-C7-C6	-2.22	121.08	127.00
26	b	843	BCR	C36-C18-C19	2.22	121.47	118.09
22	a	831	CLA	O2D-CGD-CBD	2.22	115.10	111.23
22	b	829	CLA	CHB-C4A-NA	2.22	127.60	124.40
19	1	302	XAT	O24-C25-C38	2.21	117.52	115.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	l	201	BCR	C39-C30-C25	-2.21	106.78	110.24
22	a	823	CLA	CMB-C2B-C1B	-2.21	122.06	125.42
22	a	804	CLA	O2A-CGA-O1A	-2.20	118.11	123.63
22	8	312	CLA	O2A-CGA-O1A	-2.20	118.12	123.63
22	b	805	CLA	O2A-CGA-O1A	-2.20	118.12	123.63
26	a	848	BCR	C23-C24-C25	-2.20	121.13	127.00
22	b	814	CLA	CMB-C2B-C1B	-2.20	122.08	125.42
22	a	820	CLA	CMB-C2B-C1B	-2.19	122.08	125.42
22	8	308	CLA	O2D-CGD-CBD	2.19	115.06	111.23
26	h	202	BCR	C33-C5-C4	2.19	118.27	113.60
26	b	843	BCR	C37-C22-C23	2.19	121.43	118.09
19	7	301	XAT	O4-C5-C18	2.19	117.49	115.05
22	a	820	CLA	O2A-CGA-O1A	-2.18	118.17	123.63
26	h	201	BCR	C23-C24-C25	-2.18	121.17	127.00
22	a	831	CLA	O2A-CGA-O1A	-2.18	118.17	123.63
26	f	804	BCR	C21-C20-C19	-2.18	116.88	123.20
26	a	848	BCR	C33-C5-C4	2.18	118.24	113.60
22	8	308	CLA	CMB-C2B-C1B	-2.18	122.10	125.42
22	a	829	CLA	CHB-C4A-NA	2.18	127.54	124.40
22	a	801	CLA	CHB-C4A-NA	2.18	127.54	124.40
22	b	828	CLA	CHB-C4A-NA	2.18	127.54	124.40
22	1	308	CLA	O2A-CGA-O1A	-2.18	118.19	123.63
22	b	826	CLA	C1-C2-C3	-2.18	122.63	126.20
22	a	812	CLA	O2A-CGA-O1A	-2.17	118.19	123.63
26	b	843	BCR	C11-C12-C13	-2.17	120.41	126.36
22	b	830	CLA	CMA-C3A-C2A	-2.17	111.25	116.23
22	a	816	CLA	CMB-C2B-C1B	-2.17	122.11	125.42
22	b	827	CLA	C1-C2-C3	-2.17	122.64	126.20
20	9	305	45D	C23-C25-C29	2.17	122.42	119.01
22	f	802	CLA	O2A-CGA-O1A	-2.17	118.21	123.63
22	b	818	CLA	C1-C2-C3	-2.17	122.65	126.20
22	a	834	CLA	O2A-CGA-O1A	-2.17	118.21	123.63
19	7	304	XAT	O4-C5-C18	2.17	117.47	115.05
22	a	839	CLA	O2A-CGA-O1A	-2.17	118.21	123.63
25	a	843	PQN	C2M-C2-C3	-2.16	120.89	124.45
22	a	806	CLA	CMB-C2B-C1B	-2.16	122.12	125.42
22	h	205	CLA	C1-C2-C3	-2.16	122.65	126.20
26	b	845	BCR	C2-C1-C6	2.16	113.58	110.44
19	7	303	XAT	O4-C5-C18	2.16	117.47	115.05
22	b	840	CLA	C1-C2-C3	-2.16	122.65	126.20
22	b	802	CLA	O2A-CGA-O1A	-2.16	118.22	123.63
26	m	101	BCR	C15-C14-C13	-2.16	124.25	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	806	CLA	C5-C3-C2	-2.16	116.32	121.17
22	a	838	CLA	O2A-CGA-O1A	-2.16	118.22	123.63
22	b	832	CLA	CMB-C2B-C1B	-2.16	122.13	125.42
26	b	846	BCR	C37-C22-C23	2.16	121.38	118.09
23	8	315	DGD	O2G-C1B-O1B	-2.16	118.66	123.70
22	b	823	CLA	O2A-CGA-O1A	-2.15	118.24	123.63
26	a	847	BCR	C8-C7-C6	-2.15	121.25	127.00
22	1	307	CLA	CMB-C2B-C1B	-2.15	122.14	125.42
22	b	838	CLA	O2A-CGA-O1A	-2.15	118.24	123.63
26	b	846	BCR	C23-C24-C25	-2.15	121.25	127.00
22	a	826	CLA	CMB-C2B-C3B	2.15	131.61	126.55
22	9	318	CLA	C1-C2-C3	-2.15	122.67	126.20
26	j	104	BCR	C21-C20-C19	-2.15	116.97	123.20
26	l	201	BCR	C3-C4-C5	-2.15	110.22	114.06
22	8	309	CLA	O2A-CGA-O1A	-2.15	118.25	123.63
22	7	316	CLA	O2A-CGA-O1A	-2.15	118.25	123.63
26	j	104	BCR	C29-C30-C25	2.15	113.56	110.44
19	1	303	XAT	O24-C25-C38	2.15	117.45	115.05
22	a	803	CLA	CMB-C2B-C3B	2.15	131.60	126.55
19	9	304	XAT	C40-C33-C32	2.15	121.37	118.09
22	b	822	CLA	O2A-CGA-O1A	-2.15	118.26	123.63
26	a	848	BCR	C34-C9-C8	2.15	121.37	118.09
26	b	844	BCR	C1-C6-C7	2.15	121.47	115.65
17	9	301	A1L1G	C29-C30-C31	2.14	122.33	119.00
22	7	316	CLA	CMB-C2B-C1B	-2.14	122.16	125.42
22	a	830	CLA	CHB-C4A-NA	2.14	127.49	124.40
20	9	305	45D	C27-C25-C29	-2.14	119.35	122.82
22	a	829	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
19	a	852	XAT	C39-C29-C28	2.14	121.36	118.09
22	9	314	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
22	b	801	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
26	b	842	BCR	C37-C22-C23	2.14	121.35	118.09
26	h	201	BCR	C15-C16-C17	-2.14	119.14	123.52
22	8	311	CLA	C1-C2-C3	-2.14	122.69	126.20
26	a	849	BCR	C37-C22-C23	2.14	121.35	118.09
22	9	318	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
26	l	201	BCR	C37-C22-C23	2.14	121.35	118.09
22	b	807	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
22	a	807	CLA	O2A-CGA-O1A	-2.14	118.29	123.63
22	7	312	CLA	O2A-CGA-O1A	-2.13	118.29	123.63
19	1	302	XAT	C30-C31-C32	-2.13	117.03	123.20
19	8	302	XAT	C8-C9-C10	2.13	122.36	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	820	CLA	O2A-CGA-O1A	-2.13	118.30	123.63
26	b	849	BCR	C32-C1-C6	-2.13	106.90	110.24
19	1	302	XAT	C10-C11-C12	-2.13	117.03	123.20
26	b	843	BCR	C33-C5-C4	2.13	118.13	113.60
19	9	303	XAT	C11-C12-C13	-2.13	120.53	126.36
22	a	818	CLA	C1-C2-C3	-2.13	122.71	126.20
22	b	829	CLA	O2D-CGD-CBD	2.12	114.94	111.23
19	7	301	XAT	O24-C25-C38	2.12	117.42	115.05
22	a	809	CLA	O2D-CGD-CBD	2.12	114.94	111.23
22	a	836	CLA	O2A-CGA-O1A	-2.12	118.33	123.63
26	b	842	BCR	C38-C26-C27	2.12	118.11	113.60
22	b	829	CLA	O2A-CGA-O1A	-2.12	118.33	123.63
18	8	304	A1L1F	C27-C34-C33	2.12	121.32	118.09
26	j	104	BCR	C16-C15-C14	-2.12	119.19	123.52
22	a	826	CLA	C1-C2-C3	-2.11	122.73	126.20
22	1	310	CLA	O2A-CGA-O1A	-2.11	118.34	123.63
22	b	808	CLA	O2A-CGA-O1A	-2.11	118.34	123.63
19	1	303	XAT	O4-C5-C18	2.11	117.41	115.05
22	b	831	CLA	O2A-CGA-O1A	-2.11	118.35	123.63
22	b	835	CLA	CMB-C2B-C3B	2.11	131.51	126.55
22	9	308	CLA	O2A-CGA-O1A	-2.11	118.35	123.63
22	j	102	CLA	O2A-CGA-O1A	-2.11	118.35	123.63
26	a	849	BCR	C15-C16-C17	-2.11	119.20	123.52
22	9	316	CLA	CAA-C2A-C3A	-2.11	107.31	113.00
22	h	205	CLA	O2D-CGD-CBD	2.10	114.91	111.23
22	a	842	CLA	C1-C2-C3	-2.10	122.75	126.20
19	7	303	XAT	C15-C35-C34	-2.10	119.22	123.52
26	a	847	BCR	C33-C5-C4	2.10	118.08	113.60
23	b	848	DGD	O3D-C3D-C4D	-2.10	105.42	110.38
22	a	804	CLA	CMB-C2B-C1B	-2.10	122.22	125.42
19	1	303	XAT	C11-C10-C9	-2.10	124.33	127.28
22	a	802	CLA	CMB-C2B-C3B	2.10	131.48	126.55
22	b	819	CLA	O2A-CGA-O1A	-2.10	118.39	123.63
22	b	812	CLA	O2A-CGA-O1A	-2.09	118.39	123.63
22	9	309	CLA	CMB-C2B-C1B	-2.09	122.23	125.42
22	a	806	CLA	C6-C7-C8	-2.09	109.01	115.97
26	h	201	BCR	C35-C13-C12	2.09	121.28	118.09
26	b	844	BCR	C16-C15-C14	-2.09	119.24	123.52
18	9	302	A1L1F	C17-C20-C21	2.09	116.59	114.24
22	a	827	CLA	O2A-CGA-O1A	-2.09	118.40	123.63
22	b	829	CLA	CHB-C1B-NB	2.09	127.18	124.05
22	a	825	CLA	O2A-CGA-O1A	-2.09	118.40	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	844	CLA	O2A-CGA-O1A	-2.09	118.40	123.63
22	b	819	CLA	C1-C2-C3	-2.09	122.77	126.20
22	8	311	CLA	O2A-CGA-O1A	-2.09	118.40	123.63
26	a	847	BCR	C28-C27-C26	-2.09	110.33	114.06
22	b	805	CLA	C1-C2-C3	-2.09	122.78	126.20
22	b	837	CLA	O2A-CGA-O1A	-2.09	118.41	123.63
22	a	805	CLA	CMB-C2B-C1B	-2.09	122.24	125.42
22	b	825	CLA	C1-C2-C3	-2.08	122.78	126.20
22	b	839	CLA	O2A-CGA-O1A	-2.08	118.41	123.63
19	9	303	XAT	C19-C9-C8	2.08	121.27	118.09
22	b	827	CLA	O2A-CGA-O1A	-2.08	118.42	123.63
22	b	803	CLA	O2D-CGD-CBD	2.08	114.87	111.23
26	l	201	BCR	C34-C9-C10	-2.08	119.44	122.82
22	a	803	CLA	CMB-C2B-C1B	-2.08	122.25	125.42
19	7	305	XAT	C7-C8-C9	-2.08	122.30	125.53
22	a	801	CLA	O1D-CGD-CBD	2.08	128.62	124.52
19	8	302	XAT	C19-C9-C10	-2.08	119.44	122.82
22	a	829	CLA	CMB-C2B-C3B	2.08	131.45	126.55
20	9	305	45D	C31-C33-C35	-2.08	120.66	126.36
22	b	808	CLA	O2D-CGD-CBD	2.08	114.87	111.23
19	9	304	XAT	C31-C30-C29	-2.08	124.36	127.28
22	1	311	CLA	O2A-CGA-O1A	-2.08	118.43	123.63
22	a	854	CLA	O2A-CGA-O1A	-2.08	118.43	123.63
20	9	305	45D	C06-C10-C18	-2.08	108.91	112.71
22	b	804	CLA	O2D-CGD-CBD	2.08	114.86	111.23
19	1	303	XAT	C20-C13-C12	2.08	121.26	118.09
19	7	304	XAT	C19-C9-C10	-2.08	119.45	122.82
22	b	840	CLA	O2A-CGA-O1A	-2.07	118.44	123.63
19	7	301	XAT	C19-C9-C8	2.07	121.26	118.09
19	j	101	XAT	O4-C5-C18	2.07	117.37	115.05
26	j	104	BCR	C3-C4-C5	-2.07	110.36	114.06
26	b	844	BCR	C21-C20-C19	-2.07	117.19	123.20
22	b	802	CLA	C3B-C4B-NB	-2.07	108.68	110.53
22	1	306	CLA	CAC-C3C-C4C	2.07	127.49	124.79
23	b	848	DGD	O5E-C6E-C5E	-2.07	104.28	111.33
22	a	831	CLA	C3B-C4B-NB	-2.07	108.68	110.53
22	b	826	CLA	CMB-C2B-C1B	-2.07	122.27	125.42
22	b	838	CLA	C1-C2-C3	-2.07	122.81	126.20
19	9	303	XAT	O4-C5-C18	2.07	117.36	115.05
22	a	854	CLA	C1-C2-C3	-2.07	122.81	126.20
22	b	817	CLA	O2A-CGA-O1A	-2.07	118.45	123.63
26	a	847	BCR	C20-C19-C18	-2.07	120.69	126.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	808	CLA	O2A-CGA-O1A	-2.07	118.46	123.63
22	a	806	CLA	CAA-C2A-C3A	-2.07	107.41	113.00
22	a	822	CLA	O2A-CGA-O1A	-2.07	118.46	123.63
19	7	304	XAT	C31-C32-C33	-2.07	120.70	126.36
22	h	205	CLA	O2A-CGA-O1A	-2.06	118.46	123.63
22	1	311	CLA	O2D-CGD-CBD	2.06	114.84	111.23
22	a	823	CLA	O2A-CGA-O1A	-2.06	118.47	123.63
22	a	827	CLA	C1-C2-C3	-2.06	122.82	126.20
19	7	305	XAT	C11-C12-C13	-2.06	120.71	126.36
22	b	836	CLA	O2D-CGD-CBD	2.06	114.83	111.23
22	a	830	CLA	O2A-CGA-O1A	-2.06	118.48	123.63
22	a	844	CLA	CMB-C2B-C3B	2.06	131.38	126.55
22	1	307	CLA	O2A-CGA-O1A	-2.05	118.49	123.63
26	b	842	BCR	C33-C5-C6	-2.05	122.24	124.48
22	9	316	CLA	CMB-C2B-C1B	-2.05	122.29	125.42
22	1	306	CLA	O2A-CGA-O1A	-2.05	118.49	123.63
26	a	849	BCR	C38-C26-C27	2.05	117.97	113.60
19	1	302	XAT	C39-C29-C28	2.05	121.22	118.09
22	a	814	CLA	C1-C2-C3	-2.05	122.83	126.20
22	a	835	CLA	O2A-CGA-O1A	-2.05	118.50	123.63
22	b	814	CLA	O2A-CGA-O1A	-2.05	118.50	123.63
22	b	810	CLA	CMB-C2B-C1B	-2.05	122.30	125.42
22	8	307	CLA	O2A-CGA-O1A	-2.05	118.50	123.63
22	b	816	CLA	O2D-CGD-CBD	2.05	114.81	111.23
22	a	839	CLA	CMB-C2B-C1B	-2.05	122.30	125.42
22	a	818	CLA	O2A-CGA-O1A	-2.05	118.51	123.63
22	b	825	CLA	O2A-CGA-O1A	-2.05	118.51	123.63
19	7	303	XAT	C31-C32-C33	-2.04	120.76	126.36
19	8	301	XAT	C39-C29-C28	2.04	121.21	118.09
26	f	804	BCR	C8-C7-C6	-2.04	121.54	127.00
26	i	101	BCR	C23-C22-C21	2.04	122.22	119.01
22	a	832	CLA	O2A-CGA-O1A	-2.04	118.52	123.63
22	h	203	CLA	CAA-C2A-C3A	-2.04	107.48	113.00
26	b	842	BCR	C16-C15-C14	-2.04	119.34	123.52
22	b	829	CLA	C3B-C4B-NB	-2.04	108.71	110.53
26	h	201	BCR	C28-C27-C26	-2.04	110.42	114.06
22	a	842	CLA	O2A-CGA-O1A	-2.04	118.52	123.63
22	7	311	CLA	CMB-C2B-C1B	-2.04	122.31	125.42
22	a	833	CLA	O2A-CGA-O1A	-2.04	118.53	123.63
26	a	849	BCR	C29-C30-C25	2.04	113.40	110.44
22	1	311	CLA	C1-C2-C3	-2.04	122.86	126.20
22	b	817	CLA	CHB-C1B-NB	2.04	127.10	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	834	CLA	O2A-CGA-O1A	-2.04	118.53	123.63
18	8	304	A1L1F	C28-C39-C38	-2.04	119.52	122.82
26	b	845	BCR	C38-C26-C27	2.03	117.93	113.60
17	1	301	A1L1G	C29-C30-C31	2.03	122.16	119.00
22	a	809	CLA	CMB-C2B-C3B	2.03	131.33	126.55
26	a	847	BCR	C10-C11-C12	-2.03	117.31	123.20
26	l	205	BCR	C10-C11-C12	-2.03	117.31	123.20
22	a	809	CLA	O2A-CGA-O1A	-2.03	118.55	123.63
22	b	806	CLA	C1-C2-C3	-2.03	122.87	126.20
26	b	849	BCR	C38-C26-C27	2.03	117.92	113.60
22	7	308	CLA	CMB-C2B-C3B	2.03	131.32	126.55
22	b	803	CLA	C1-C2-C3	-2.03	122.87	126.20
22	b	809	CLA	C1-C2-C3	-2.03	122.88	126.20
22	b	832	CLA	CMB-C2B-C3B	2.03	131.32	126.55
22	b	810	CLA	O2A-CGA-O1A	-2.03	118.56	123.63
19	9	303	XAT	C40-C33-C32	2.03	121.18	118.09
22	8	307	CLA	CMB-C2B-C1B	-2.03	122.33	125.42
22	a	833	CLA	CMB-C2B-C3B	2.02	131.31	126.55
22	b	817	CLA	O2D-CGD-CBD	2.02	114.77	111.23
22	a	831	CLA	CHB-C1B-NB	2.02	127.08	124.05
22	a	814	CLA	O2A-CGA-O1A	-2.02	118.57	123.63
22	a	816	CLA	O2A-CGA-O1A	-2.02	118.57	123.63
23	8	315	DGD	C4D-C3D-C2D	-2.02	107.28	110.83
22	b	824	CLA	O2A-CGA-O1A	-2.02	118.58	123.63
26	a	848	BCR	C28-C27-C26	-2.02	110.45	114.06
28	j	105	LMG	O7-C10-O9	-2.02	118.99	123.70
26	a	847	BCR	C2-C1-C6	2.02	113.37	110.44
22	l	203	CLA	O2A-CGA-O1A	-2.02	118.58	123.63
22	b	807	CLA	CMB-C2B-C1B	-2.02	122.35	125.42
18	1	304	A1L1F	C25-C14-C29	-2.01	121.73	125.99
22	a	840	CLA	O2A-CGA-O1A	-2.01	118.59	123.63
22	b	828	CLA	O2A-CGA-O1A	-2.01	118.59	123.63
19	j	101	XAT	C20-C13-C12	2.01	121.16	118.09
22	7	309	CLA	O2A-CGA-O1A	-2.01	118.60	123.63
20	9	305	45D	C30-C32-C34	-2.01	117.37	123.20
22	a	811	CLA	O2A-CGA-O1A	-2.01	118.60	123.63
26	a	849	BCR	C35-C13-C12	2.01	121.16	118.09
22	b	821	CLA	CMB-C2B-C1B	-2.01	122.36	125.42
22	a	807	CLA	C1-C2-C3	-2.01	122.91	126.20
22	b	806	CLA	CMB-C2B-C1B	-2.01	122.36	125.42
26	f	801	BCR	C11-C10-C9	-2.01	124.46	127.28
26	l	205	BCR	C7-C8-C9	-2.00	123.27	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	7	306	CLA	O2A-CGA-O1A	-2.00	118.62	123.63
22	8	305	CLA	CMB-C2B-C3B	2.00	131.26	126.55
22	b	813	CLA	O2A-CGA-O1A	-2.00	118.62	123.63

All (135) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	9	308	CLA	ND
22	9	309	CLA	ND
22	9	310	CLA	ND
22	9	311	CLA	ND
22	9	312	CLA	ND
22	9	313	CLA	ND
22	9	314	CLA	ND
22	9	315	CLA	ND
22	9	316	CLA	ND
22	9	318	CLA	ND
22	8	305	CLA	ND
22	8	306	CLA	ND
22	8	307	CLA	ND
22	8	308	CLA	ND
22	8	309	CLA	ND
22	8	310	CLA	ND
22	8	311	CLA	ND
22	8	312	CLA	ND
22	8	313	CLA	ND
22	8	314	CLA	ND
22	7	306	CLA	ND
22	7	307	CLA	ND
22	7	308	CLA	ND
22	7	309	CLA	ND
22	7	310	CLA	ND
22	7	311	CLA	ND
22	7	312	CLA	ND
22	7	313	CLA	ND
22	7	314	CLA	ND
22	7	315	CLA	ND
22	7	316	CLA	ND
22	7	317	CLA	ND
22	1	305	CLA	ND
22	1	306	CLA	ND
22	1	307	CLA	ND

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Mol	Chain	Res	Type	Atom
22	1	308	CLA	ND
22	1	309	CLA	ND
22	1	310	CLA	ND
22	1	311	CLA	ND
22	1	312	CLA	ND
22	1	313	CLA	ND
22	1	314	CLA	ND
22	a	801	CLA	ND
22	a	802	CLA	ND
22	a	803	CLA	ND
22	a	804	CLA	ND
22	a	805	CLA	ND
22	a	806	CLA	ND
22	a	807	CLA	ND
22	a	808	CLA	ND
22	a	809	CLA	ND
22	a	810	CLA	ND
22	a	811	CLA	ND
22	a	812	CLA	ND
22	a	813	CLA	ND
22	a	814	CLA	ND
22	a	815	CLA	ND
22	a	816	CLA	ND
22	a	817	CLA	ND
22	a	818	CLA	ND
22	a	819	CLA	ND
22	a	820	CLA	ND
22	a	821	CLA	ND
22	a	822	CLA	ND
22	a	823	CLA	ND
22	a	824	CLA	ND
22	a	825	CLA	ND
22	a	826	CLA	ND
22	a	827	CLA	ND
22	a	828	CLA	ND
22	a	829	CLA	ND
22	a	830	CLA	ND
22	a	831	CLA	ND
22	a	832	CLA	ND
22	a	833	CLA	ND
22	a	834	CLA	ND
22	a	835	CLA	ND

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Mol	Chain	Res	Type	Atom
22	a	836	CLA	ND
22	a	837	CLA	ND
22	a	838	CLA	ND
22	a	839	CLA	ND
22	a	840	CLA	ND
22	a	841	CLA	ND
22	a	842	CLA	ND
22	a	844	CLA	ND
22	a	854	CLA	ND
22	b	801	CLA	ND
22	b	802	CLA	ND
22	b	803	CLA	ND
22	b	804	CLA	ND
22	b	805	CLA	ND
22	b	806	CLA	ND
22	b	807	CLA	ND
22	b	808	CLA	ND
22	b	809	CLA	ND
22	b	810	CLA	ND
22	b	811	CLA	ND
22	b	812	CLA	ND
22	b	813	CLA	ND
22	b	814	CLA	ND
22	b	815	CLA	ND
22	b	816	CLA	ND
22	b	817	CLA	ND
22	b	818	CLA	ND
22	b	819	CLA	ND
22	b	820	CLA	ND
22	b	821	CLA	ND
22	b	822	CLA	ND
22	b	823	CLA	ND
22	b	824	CLA	ND
22	b	825	CLA	ND
22	b	826	CLA	ND
22	b	827	CLA	ND
22	b	828	CLA	ND
22	b	829	CLA	ND
22	b	830	CLA	ND
22	b	831	CLA	ND
22	b	832	CLA	ND
22	b	833	CLA	ND

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Mol	Chain	Res	Type	Atom
22	b	834	CLA	ND
22	b	835	CLA	ND
22	b	836	CLA	ND
22	b	837	CLA	ND
22	b	838	CLA	ND
22	b	839	CLA	ND
22	b	840	CLA	ND
22	f	802	CLA	ND
22	f	803	CLA	ND
22	h	203	CLA	ND
22	h	205	CLA	ND
22	j	102	CLA	ND
22	j	103	CLA	ND
22	l	202	CLA	ND
22	l	203	CLA	ND
22	l	204	CLA	ND

All (1577) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
17	9	301	A1L1G	O13-C26-C30-C29
17	9	301	A1L1G	C26-C30-C31-C32
17	9	301	A1L1G	C31-C32-C33-C34
17	9	301	A1L1G	C38-C39-C40-C41
17	9	301	A1L1G	C39-C40-C41-C42
17	9	306	A1L1G	C45-C2-C44-C42
17	9	306	A1L1G	C45-C2-C44-C43
17	9	306	A1L1G	C29-C14-C25-C24
17	9	306	A1L1G	C25-C14-C29-C30
17	9	306	A1L1G	C35-C36-C37-C38
17	9	306	A1L1G	C37-C38-C39-C28
17	9	306	A1L1G	C37-C38-C39-C40
17	7	302	A1L1G	C45-C2-C44-C42
17	7	302	A1L1G	C29-C14-C25-C24
17	7	302	A1L1G	C35-C36-C37-C38
17	7	302	A1L1G	C37-C38-C39-C28
17	7	302	A1L1G	C37-C38-C39-C40
17	7	302	A1L1G	C39-C40-C41-C42
17	7	302	A1L1G	C41-C42-C44-C2
17	7	302	A1L1G	C41-C42-C44-C43
17	1	301	A1L1G	C45-C2-C44-C42
17	1	301	A1L1G	C45-C2-C44-C43

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Mol	Chain	Res	Type	Atoms
17	1	301	A1L1G	O13-C26-C30-C29
17	1	301	A1L1G	C27-C34-C35-C36
17	1	301	A1L1G	C33-C34-C35-C36
17	1	301	A1L1G	C35-C36-C37-C38
17	1	301	A1L1G	C38-C39-C40-C41
17	1	301	A1L1G	C39-C40-C41-C42
18	9	302	A1L1F	O13-C26-C30-C31
18	9	302	A1L1F	C56-C54-O7-C8
18	8	304	A1L1F	C32-C33-C34-C35
18	8	304	A1L1F	C56-C54-O7-C8
18	8	304	A1L1F	O55-C54-O7-C8
18	1	304	A1L1F	C29-C14-C25-C24
18	1	304	A1L1F	C32-C33-C34-C35
18	1	304	A1L1F	C38-C39-C40-C41
18	h	204	A1L1F	C56-C54-O7-C8
18	h	204	A1L1F	O55-C54-O7-C8
19	9	303	XAT	O4-C6-C7-C8
19	9	304	XAT	O24-C26-C27-C28
19	8	302	XAT	O4-C6-C7-C8
19	8	302	XAT	C7-C8-C9-C10
19	8	302	XAT	C7-C8-C9-C19
19	7	301	XAT	O4-C6-C7-C8
19	7	301	XAT	C27-C28-C29-C30
19	7	301	XAT	C27-C28-C29-C39
19	7	303	XAT	O4-C6-C7-C8
19	7	303	XAT	O24-C26-C27-C28
19	7	303	XAT	C27-C28-C29-C30
19	7	303	XAT	C27-C28-C29-C39
19	7	304	XAT	O4-C6-C7-C8
19	7	304	XAT	C11-C12-C13-C14
19	7	304	XAT	C11-C12-C13-C20
19	a	852	XAT	C7-C8-C9-C10
19	a	852	XAT	C7-C8-C9-C19
19	a	852	XAT	C11-C12-C13-C14
19	a	852	XAT	C27-C28-C29-C30
19	j	101	XAT	O4-C6-C7-C8
19	j	101	XAT	C7-C8-C9-C10
19	j	101	XAT	O24-C26-C27-C28
21	9	307	LHG	C3-O3-P-O4
21	9	307	LHG	C3-O3-P-O5
21	9	307	LHG	C3-O3-P-O6
21	9	307	LHG	O9-C7-O7-C5

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Mol	Chain	Res	Type	Atoms
21	9	307	LHG	C8-C7-O7-C5
21	9	317	LHG	C1-C2-C3-O3
21	9	317	LHG	C3-O3-P-O4
21	9	317	LHG	O9-C7-O7-C5
21	9	317	LHG	C8-C7-O7-C5
21	a	845	LHG	O1-C1-C2-C3
21	a	845	LHG	C3-O3-P-O4
21	a	845	LHG	C3-O3-P-O6
21	a	845	LHG	C4-O6-P-O3
21	a	845	LHG	C4-O6-P-O5
21	a	845	LHG	O6-C4-C5-O7
21	a	845	LHG	O7-C5-C6-O8
21	a	846	LHG	O1-C1-C2-C3
21	a	846	LHG	O6-C4-C5-O7
21	b	847	LHG	O1-C1-C2-C3
21	b	847	LHG	C1-C2-C3-O3
21	b	847	LHG	O2-C2-C3-O3
21	b	847	LHG	C3-O3-P-O5
21	b	847	LHG	C3-O3-P-O6
21	b	847	LHG	C4-O6-P-O3
21	b	847	LHG	C4-O6-P-O4
21	b	847	LHG	C4-O6-P-O5
22	9	308	CLA	CBD-CGD-O2D-CED
22	9	310	CLA	CHA-CBD-CGD-O1D
22	9	310	CLA	CHA-CBD-CGD-O2D
22	9	311	CLA	CBD-CGD-O2D-CED
22	9	311	CLA	O1D-CGD-O2D-CED
22	9	314	CLA	CHA-CBD-CGD-O1D
22	9	314	CLA	CHA-CBD-CGD-O2D
22	9	315	CLA	CAD-CBD-CGD-O2D
22	9	315	CLA	CBD-CGD-O2D-CED
22	9	316	CLA	C1A-C2A-CAA-CBA
22	9	316	CLA	CAD-CBD-CGD-O1D
22	9	316	CLA	CAD-CBD-CGD-O2D
22	8	308	CLA	CHA-CBD-CGD-O1D
22	8	308	CLA	CHA-CBD-CGD-O2D
22	7	306	CLA	C3A-C2A-CAA-CBA
22	7	306	CLA	CBD-CGD-O2D-CED
22	7	307	CLA	CBD-CGD-O2D-CED
22	7	310	CLA	CBA-CGA-O2A-C1
22	7	311	CLA	CBA-CGA-O2A-C1
22	7	314	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	7	315	CLA	C4B-C3B-CAB-CBB
22	7	315	CLA	CBD-CGD-O2D-CED
22	7	316	CLA	C1A-C2A-CAA-CBA
22	7	316	CLA	C3A-C2A-CAA-CBA
22	7	316	CLA	CHA-CBD-CGD-O1D
22	7	316	CLA	CHA-CBD-CGD-O2D
22	1	305	CLA	C11-C10-C8-C9
22	1	310	CLA	CBD-CGD-O2D-CED
22	1	313	CLA	CBD-CGD-O2D-CED
22	1	314	CLA	C1A-C2A-CAA-CBA
22	1	314	CLA	C3A-C2A-CAA-CBA
22	a	801	CLA	CBD-CGD-O2D-CED
22	a	804	CLA	CHA-CBD-CGD-O1D
22	a	804	CLA	CHA-CBD-CGD-O2D
22	a	805	CLA	C1A-C2A-CAA-CBA
22	a	805	CLA	C3A-C2A-CAA-CBA
22	a	806	CLA	CAD-CBD-CGD-O2D
22	a	809	CLA	C1A-C2A-CAA-CBA
22	a	809	CLA	C3A-C2A-CAA-CBA
22	a	809	CLA	CHA-CBD-CGD-O1D
22	a	809	CLA	CHA-CBD-CGD-O2D
22	a	811	CLA	CBD-CGD-O2D-CED
22	a	817	CLA	CHA-CBD-CGD-O1D
22	a	817	CLA	CHA-CBD-CGD-O2D
22	a	818	CLA	C1A-C2A-CAA-CBA
22	a	818	CLA	C3A-C2A-CAA-CBA
22	a	818	CLA	CHA-CBD-CGD-O1D
22	a	818	CLA	CHA-CBD-CGD-O2D
22	a	819	CLA	C3A-C2A-CAA-CBA
22	a	820	CLA	C1A-C2A-CAA-CBA
22	a	820	CLA	C3A-C2A-CAA-CBA
22	a	823	CLA	C1A-C2A-CAA-CBA
22	a	823	CLA	C3A-C2A-CAA-CBA
22	a	823	CLA	CHA-CBD-CGD-O1D
22	a	823	CLA	CHA-CBD-CGD-O2D
22	a	829	CLA	C1A-C2A-CAA-CBA
22	a	829	CLA	CBD-CGD-O2D-CED
22	a	831	CLA	CHA-CBD-CGD-O1D
22	a	831	CLA	CHA-CBD-CGD-O2D
22	a	832	CLA	C1A-C2A-CAA-CBA
22	a	832	CLA	C3A-C2A-CAA-CBA
22	a	834	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
22	a	834	CLA	C4B-C3B-CAB-CBB
22	a	838	CLA	C1A-C2A-CAA-CBA
22	a	838	CLA	C2-C3-C5-C6
22	a	838	CLA	C4-C3-C5-C6
22	a	854	CLA	C1A-C2A-CAA-CBA
22	a	854	CLA	C2B-C3B-CAB-CBB
22	a	854	CLA	C4B-C3B-CAB-CBB
22	b	803	CLA	CBD-CGD-O2D-CED
22	b	804	CLA	CBD-CGD-O2D-CED
22	b	805	CLA	CHA-CBD-CGD-O1D
22	b	805	CLA	CHA-CBD-CGD-O2D
22	b	806	CLA	C1A-C2A-CAA-CBA
22	b	806	CLA	C3A-C2A-CAA-CBA
22	b	806	CLA	CAD-CBD-CGD-O1D
22	b	806	CLA	CAD-CBD-CGD-O2D
22	b	809	CLA	CHA-CBD-CGD-O1D
22	b	809	CLA	CHA-CBD-CGD-O2D
22	b	810	CLA	C1A-C2A-CAA-CBA
22	b	812	CLA	C1A-C2A-CAA-CBA
22	b	812	CLA	C2-C3-C5-C6
22	b	812	CLA	C4-C3-C5-C6
22	b	814	CLA	C1A-C2A-CAA-CBA
22	b	814	CLA	CBD-CGD-O2D-CED
22	b	815	CLA	CHA-CBD-CGD-O1D
22	b	815	CLA	CHA-CBD-CGD-O2D
22	b	817	CLA	C3A-C2A-CAA-CBA
22	b	818	CLA	C1A-C2A-CAA-CBA
22	b	818	CLA	C3A-C2A-CAA-CBA
22	b	819	CLA	C4B-C3B-CAB-CBB
22	b	820	CLA	C1A-C2A-CAA-CBA
22	b	820	CLA	C3A-C2A-CAA-CBA
22	b	821	CLA	CHA-CBD-CGD-O2D
22	b	824	CLA	CHA-CBD-CGD-O1D
22	b	824	CLA	CHA-CBD-CGD-O2D
22	b	828	CLA	C1A-C2A-CAA-CBA
22	b	828	CLA	C3A-C2A-CAA-CBA
22	b	829	CLA	CHA-CBD-CGD-O1D
22	b	829	CLA	CHA-CBD-CGD-O2D
22	b	832	CLA	C1A-C2A-CAA-CBA
22	b	832	CLA	C3A-C2A-CAA-CBA
22	b	833	CLA	C1A-C2A-CAA-CBA
22	b	833	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	b	833	CLA	C11-C12-C13-C14
22	b	834	CLA	CHA-CBD-CGD-O1D
22	b	834	CLA	CHA-CBD-CGD-O2D
22	b	834	CLA	CBD-CGD-O2D-CED
22	b	838	CLA	C4B-C3B-CAB-CBB
22	b	839	CLA	C1A-C2A-CAA-CBA
22	b	839	CLA	C3A-C2A-CAA-CBA
22	b	839	CLA	CAD-CBD-CGD-O1D
22	b	839	CLA	CAD-CBD-CGD-O2D
22	b	839	CLA	CBD-CGD-O2D-CED
22	h	203	CLA	C1A-C2A-CAA-CBA
22	j	102	CLA	C1A-C2A-CAA-CBA
22	j	103	CLA	CAD-CBD-CGD-O1D
22	j	103	CLA	CAD-CBD-CGD-O2D
22	j	103	CLA	CBD-CGD-O2D-CED
22	l	203	CLA	C6-C7-C8-C9
23	8	315	DGD	C2B-C1B-O2G-C2G
24	1	315	SQD	O5-C5-C6-S
24	1	315	SQD	C5-C6-S-O7
24	1	315	SQD	C5-C6-S-O8
24	1	315	SQD	C5-C6-S-O9
26	a	850	BCR	C23-C24-C25-C26
26	b	842	BCR	C7-C8-C9-C10
26	b	842	BCR	C7-C8-C9-C34
26	b	844	BCR	C1-C6-C7-C8
26	b	844	BCR	C5-C6-C7-C8
26	i	101	BCR	C21-C22-C23-C24
26	i	101	BCR	C37-C22-C23-C24
26	j	104	BCR	C7-C8-C9-C10
26	j	104	BCR	C7-C8-C9-C34
26	m	101	BCR	C21-C22-C23-C24
26	m	101	BCR	C37-C22-C23-C24
28	a	853	LMG	C11-C10-O7-C8
28	j	105	LMG	O9-C10-O7-C8
28	j	105	LMG	C11-C10-O7-C8
22	9	315	CLA	O1D-CGD-O2D-CED
22	7	314	CLA	O1D-CGD-O2D-CED
18	9	302	A1L1F	O55-C54-O7-C8
22	9	308	CLA	O1D-CGD-O2D-CED
22	7	307	CLA	O1D-CGD-O2D-CED
22	1	313	CLA	O1D-CGD-O2D-CED
22	a	812	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	b	803	CLA	O1D-CGD-O2D-CED
22	b	834	CLA	O1D-CGD-O2D-CED
22	9	318	CLA	CBD-CGD-O2D-CED
22	8	306	CLA	CBD-CGD-O2D-CED
22	1	309	CLA	CBD-CGD-O2D-CED
22	a	812	CLA	CBD-CGD-O2D-CED
21	9	317	LHG	O10-C23-O8-C6
22	8	308	CLA	O1A-CGA-O2A-C1
22	1	307	CLA	O1A-CGA-O2A-C1
22	a	806	CLA	O1A-CGA-O2A-C1
22	b	814	CLA	O1A-CGA-O2A-C1
22	7	310	CLA	O1A-CGA-O2A-C1
22	7	315	CLA	O1D-CGD-O2D-CED
22	b	804	CLA	O1D-CGD-O2D-CED
18	9	302	A1L1F	C4-C8-O7-C54
22	a	801	CLA	O1D-CGD-O2D-CED
21	9	317	LHG	C24-C23-O8-C6
22	8	308	CLA	CBA-CGA-O2A-C1
22	1	307	CLA	CBA-CGA-O2A-C1
22	a	806	CLA	CBA-CGA-O2A-C1
22	b	814	CLA	CBA-CGA-O2A-C1
21	b	847	LHG	O10-C23-O8-C6
22	7	312	CLA	O1A-CGA-O2A-C1
22	a	805	CLA	O1A-CGA-O2A-C1
22	a	818	CLA	O1A-CGA-O2A-C1
22	b	821	CLA	O1A-CGA-O2A-C1
22	f	802	CLA	O1A-CGA-O2A-C1
23	8	315	DGD	O1A-C1A-O1G-C1G
28	a	853	LMG	O10-C28-O8-C9
22	7	311	CLA	O1A-CGA-O2A-C1
22	b	814	CLA	O1D-CGD-O2D-CED
22	7	306	CLA	O1D-CGD-O2D-CED
22	1	310	CLA	O1D-CGD-O2D-CED
22	a	811	CLA	O1D-CGD-O2D-CED
22	a	829	CLA	O1D-CGD-O2D-CED
22	b	839	CLA	O1D-CGD-O2D-CED
22	j	103	CLA	O1D-CGD-O2D-CED
23	8	315	DGD	O1B-C1B-O2G-C2G
28	a	853	LMG	O9-C10-O7-C8
22	1	309	CLA	CBA-CGA-O2A-C1
22	1	309	CLA	O1A-CGA-O2A-C1
22	l	204	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	7	308	CLA	C3-C5-C6-C7
22	a	810	CLA	C3-C5-C6-C7
22	b	802	CLA	C3-C5-C6-C7
22	b	805	CLA	C3-C5-C6-C7
22	b	807	CLA	C3-C5-C6-C7
22	b	809	CLA	C3-C5-C6-C7
22	7	312	CLA	CBA-CGA-O2A-C1
22	a	805	CLA	CBA-CGA-O2A-C1
22	a	818	CLA	CBA-CGA-O2A-C1
22	a	836	CLA	CBA-CGA-O2A-C1
22	b	821	CLA	CBA-CGA-O2A-C1
22	b	823	CLA	CBA-CGA-O2A-C1
22	f	802	CLA	CBA-CGA-O2A-C1
28	a	853	LMG	C29-C28-O8-C9
18	1	304	A1L1F	C56-C54-O7-C8
18	1	304	A1L1F	O55-C54-O7-C8
22	9	312	CLA	CBD-CGD-O2D-CED
22	9	314	CLA	CBD-CGD-O2D-CED
22	8	309	CLA	CBD-CGD-O2D-CED
22	7	310	CLA	CBD-CGD-O2D-CED
22	a	804	CLA	CBD-CGD-O2D-CED
22	a	814	CLA	CBD-CGD-O2D-CED
22	b	806	CLA	CBD-CGD-O2D-CED
22	b	819	CLA	CBD-CGD-O2D-CED
22	b	835	CLA	CBD-CGD-O2D-CED
22	h	205	CLA	CBD-CGD-O2D-CED
22	7	306	CLA	O1A-CGA-O2A-C1
22	1	309	CLA	O1D-CGD-O2D-CED
22	8	311	CLA	C4-C3-C5-C6
22	a	825	CLA	C4-C3-C5-C6
22	a	831	CLA	C4-C3-C5-C6
22	a	839	CLA	C4-C3-C5-C6
22	j	102	CLA	C4-C3-C5-C6
22	8	311	CLA	C2-C3-C5-C6
22	a	831	CLA	C2-C3-C5-C6
22	a	839	CLA	C2-C3-C5-C6
22	j	102	CLA	C2-C3-C5-C6
22	9	309	CLA	CBA-CGA-O2A-C1
22	l	204	CLA	CBA-CGA-O2A-C1
22	b	810	CLA	C2A-CAA-CBA-CGA
22	9	308	CLA	C3-C5-C6-C7
22	8	308	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
22	1	307	CLA	C3-C5-C6-C7
22	1	310	CLA	C3-C5-C6-C7
22	b	818	CLA	C3-C5-C6-C7
21	9	307	LHG	C24-C23-O8-C6
21	b	847	LHG	C24-C23-O8-C6
22	9	316	CLA	CBA-CGA-O2A-C1
22	1	305	CLA	CBA-CGA-O2A-C1
22	a	807	CLA	CBA-CGA-O2A-C1
22	a	811	CLA	CBA-CGA-O2A-C1
22	b	806	CLA	CBA-CGA-O2A-C1
22	b	818	CLA	CBA-CGA-O2A-C1
23	8	315	DGD	C2A-C1A-O1G-C1G
28	j	105	LMG	C29-C28-O8-C9
28	j	105	LMG	C4-C5-C6-O5
17	9	301	A1L1G	C30-C31-C32-C33
17	9	301	A1L1G	C40-C41-C42-C44
17	7	302	A1L1G	C30-C31-C32-C33
18	8	304	A1L1F	C30-C31-C32-C33
22	1	305	CLA	O1A-CGA-O2A-C1
22	a	811	CLA	O1A-CGA-O2A-C1
22	a	812	CLA	O1A-CGA-O2A-C1
22	a	820	CLA	O1A-CGA-O2A-C1
22	b	806	CLA	O1A-CGA-O2A-C1
22	b	818	CLA	O1A-CGA-O2A-C1
28	j	105	LMG	O10-C28-O8-C9
22	7	308	CLA	CBD-CGD-O2D-CED
22	a	818	CLA	CBD-CGD-O2D-CED
22	a	837	CLA	CBD-CGD-O2D-CED
28	j	105	LMG	C12-C13-C14-C15
21	9	307	LHG	O2-C2-C3-O3
21	9	317	LHG	O2-C2-C3-O3
21	a	845	LHG	O2-C2-C3-O3
22	7	306	CLA	CBA-CGA-O2A-C1
22	a	812	CLA	CBA-CGA-O2A-C1
22	b	839	CLA	CBA-CGA-O2A-C1
21	9	307	LHG	O10-C23-O8-C6
22	a	836	CLA	O1A-CGA-O2A-C1
22	b	823	CLA	O1A-CGA-O2A-C1
22	9	316	CLA	CBD-CGD-O2D-CED
22	9	312	CLA	CBA-CGA-O2A-C1
22	9	318	CLA	O1D-CGD-O2D-CED
22	b	839	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	8	306	CLA	O1D-CGD-O2D-CED
22	a	807	CLA	C3-C5-C6-C7
22	a	835	CLA	C3-C5-C6-C7
22	a	841	CLA	CBD-CGD-O2D-CED
22	b	823	CLA	CBD-CGD-O2D-CED
22	b	827	CLA	CBD-CGD-O2D-CED
23	b	848	DGD	O6E-C5E-C6E-O5E
22	a	820	CLA	CBA-CGA-O2A-C1
22	a	813	CLA	C4-C3-C5-C6
22	b	828	CLA	C4-C3-C5-C6
22	a	825	CLA	C2-C3-C5-C6
22	9	316	CLA	O1A-CGA-O2A-C1
22	a	807	CLA	O1A-CGA-O2A-C1
22	8	313	CLA	CBA-CGA-O2A-C1
22	7	317	CLA	CBD-CGD-O2D-CED
22	a	835	CLA	CBD-CGD-O2D-CED
22	1	312	CLA	C3-C5-C6-C7
22	a	817	CLA	C2A-CAA-CBA-CGA
23	8	315	DGD	O6E-C1E-O5D-C6D
22	7	316	CLA	CBA-CGA-O2A-C1
22	a	807	CLA	CBD-CGD-O2D-CED
22	a	810	CLA	CBD-CGD-O2D-CED
22	a	834	CLA	CBD-CGD-O2D-CED
22	b	840	CLA	CBD-CGD-O2D-CED
21	a	845	LHG	C23-C24-C25-C26
22	9	312	CLA	O1A-CGA-O2A-C1
28	a	853	LMG	O6-C5-C6-O5
28	j	105	LMG	O6-C5-C6-O5
21	a	845	LHG	C12-C13-C14-C15
22	9	309	CLA	O1A-CGA-O2A-C1
18	8	304	A1L1F	C40-C41-C42-C44
21	9	307	LHG	C1-C2-C3-O3
21	a	845	LHG	C1-C2-C3-O3
22	8	311	CLA	CBA-CGA-O2A-C1
22	a	809	CLA	CBA-CGA-O2A-C1
22	a	839	CLA	CBA-CGA-O2A-C1
22	a	854	CLA	CBA-CGA-O2A-C1
22	b	820	CLA	CBA-CGA-O2A-C1
22	b	826	CLA	CBA-CGA-O2A-C1
22	b	833	CLA	CBA-CGA-O2A-C1
22	h	203	CLA	CBA-CGA-O2A-C1
22	b	822	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
28	a	853	LMG	C4-C5-C6-O5
18	9	302	A1L1F	C47-C48-C49-C50
22	a	804	CLA	O1D-CGD-O2D-CED
22	b	806	CLA	O1D-CGD-O2D-CED
21	a	845	LHG	C28-C29-C30-C31
22	a	813	CLA	C2-C3-C5-C6
22	9	318	CLA	C11-C10-C8-C9
22	9	318	CLA	C11-C12-C13-C14
22	8	307	CLA	C11-C10-C8-C9
22	8	311	CLA	C6-C7-C8-C9
22	1	306	CLA	C6-C7-C8-C9
22	1	306	CLA	C11-C12-C13-C14
22	1	310	CLA	C14-C13-C15-C16
22	a	829	CLA	C11-C10-C8-C9
22	b	801	CLA	C11-C10-C8-C9
22	b	801	CLA	C14-C13-C15-C16
22	b	805	CLA	C11-C10-C8-C9
22	b	818	CLA	C11-C10-C8-C9
22	b	824	CLA	C6-C7-C8-C9
22	b	829	CLA	C14-C13-C15-C16
22	b	838	CLA	C6-C7-C8-C9
22	f	802	CLA	C11-C12-C13-C14
22	9	312	CLA	O1D-CGD-O2D-CED
22	9	314	CLA	O1D-CGD-O2D-CED
22	8	309	CLA	O1D-CGD-O2D-CED
22	7	310	CLA	O1D-CGD-O2D-CED
23	8	315	DGD	C2E-C1E-O5D-C6D
21	a	846	LHG	O2-C2-C3-O3
22	b	835	CLA	O1D-CGD-O2D-CED
22	8	311	CLA	O1A-CGA-O2A-C1
22	a	809	CLA	O1A-CGA-O2A-C1
22	a	854	CLA	O1A-CGA-O2A-C1
22	h	205	CLA	O1D-CGD-O2D-CED
17	9	301	A1L1G	C28-C39-C40-C41
17	1	301	A1L1G	C28-C39-C40-C41
18	8	304	A1L1F	C32-C33-C34-C27
18	8	304	A1L1F	C28-C39-C40-C41
18	1	304	A1L1F	C32-C33-C34-C27
18	1	304	A1L1F	C28-C39-C40-C41
19	8	301	XAT	C7-C8-C9-C19
19	a	852	XAT	C11-C12-C13-C20
19	a	852	XAT	C27-C28-C29-C39

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Mol	Chain	Res	Type	Atoms
19	j	101	XAT	C7-C8-C9-C19
26	b	849	BCR	C7-C8-C9-C34
26	l	205	BCR	C7-C8-C9-C34
26	l	205	BCR	C37-C22-C23-C24
26	m	101	BCR	C7-C8-C9-C34
26	b	849	BCR	C7-C8-C9-C10
26	l	205	BCR	C7-C8-C9-C10
26	l	205	BCR	C21-C22-C23-C24
22	9	313	CLA	C2A-CAA-CBA-CGA
22	b	805	CLA	C2A-CAA-CBA-CGA
22	b	826	CLA	C2A-CAA-CBA-CGA
28	a	853	LMG	C28-C29-C30-C31
22	b	820	CLA	O1A-CGA-O2A-C1
22	h	203	CLA	O1A-CGA-O2A-C1
22	9	313	CLA	CBA-CGA-O2A-C1
22	b	838	CLA	CBA-CGA-O2A-C1
22	a	810	CLA	C13-C15-C16-C17
22	b	826	CLA	O1A-CGA-O2A-C1
22	a	814	CLA	O1D-CGD-O2D-CED
22	9	318	CLA	C8-C10-C11-C12
22	8	307	CLA	C5-C6-C7-C8
22	a	807	CLA	C5-C6-C7-C8
22	b	809	CLA	C5-C6-C7-C8
22	b	823	CLA	C3-C5-C6-C7
22	b	807	CLA	CBD-CGD-O2D-CED
22	h	203	CLA	CBD-CGD-O2D-CED
22	1	310	CLA	C11-C10-C8-C7
22	a	801	CLA	C12-C13-C15-C16
22	a	809	CLA	C12-C13-C15-C16
22	a	828	CLA	C12-C13-C15-C16
22	a	844	CLA	C12-C13-C15-C16
22	b	808	CLA	C12-C13-C15-C16
22	7	308	CLA	C4-C3-C5-C6
22	b	807	CLA	C15-C16-C17-C18
22	b	833	CLA	C13-C15-C16-C17
23	b	848	DGD	C1A-C2A-C3A-C4A
21	b	847	LHG	C7-C8-C9-C10
22	a	839	CLA	O1A-CGA-O2A-C1
22	b	833	CLA	O1A-CGA-O2A-C1
22	a	834	CLA	C15-C16-C17-C18
22	b	801	CLA	C15-C16-C17-C18
22	9	311	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
22	9	312	CLA	C2A-CAA-CBA-CGA
22	7	317	CLA	C2A-CAA-CBA-CGA
22	a	825	CLA	C2A-CAA-CBA-CGA
22	a	830	CLA	C2A-CAA-CBA-CGA
22	a	842	CLA	C2A-CAA-CBA-CGA
22	b	820	CLA	C2A-CAA-CBA-CGA
22	b	833	CLA	C2A-CAA-CBA-CGA
22	b	838	CLA	C2A-CAA-CBA-CGA
17	9	306	A1L1G	C39-C40-C41-C42
22	9	318	CLA	C10-C11-C12-C13
22	a	802	CLA	C5-C6-C7-C8
22	a	809	CLA	C5-C6-C7-C8
22	a	814	CLA	C13-C15-C16-C17
22	b	832	CLA	C13-C15-C16-C17
22	b	840	CLA	C13-C15-C16-C17
18	1	304	A1L1F	C45-C47-C48-C49
21	a	846	LHG	C7-C8-C9-C10
28	a	853	LMG	C10-C11-C12-C13
22	a	801	CLA	C3-C5-C6-C7
22	b	819	CLA	O1D-CGD-O2D-CED
22	9	308	CLA	C5-C6-C7-C8
22	1	306	CLA	C5-C6-C7-C8
22	1	306	CLA	C8-C10-C11-C12
22	a	809	CLA	C8-C10-C11-C12
22	a	830	CLA	C13-C15-C16-C17
22	a	831	CLA	C5-C6-C7-C8
22	b	809	CLA	C8-C10-C11-C12
22	b	813	CLA	C15-C16-C17-C18
22	b	814	CLA	C5-C6-C7-C8
22	b	829	CLA	C8-C10-C11-C12
22	l	203	CLA	C10-C11-C12-C13
18	1	304	A1L1F	C49-C50-C51-C52
22	b	827	CLA	CBA-CGA-O2A-C1
22	8	310	CLA	CBD-CGD-O2D-CED
22	7	316	CLA	O1A-CGA-O2A-C1
22	a	807	CLA	C15-C16-C17-C18
22	a	841	CLA	C5-C6-C7-C8
22	b	836	CLA	C5-C6-C7-C8
22	a	837	CLA	O1D-CGD-O2D-CED
22	7	308	CLA	O1D-CGD-O2D-CED
22	9	308	CLA	C8-C10-C11-C12
22	f	802	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	b	848	DGD	C4E-C5E-C6E-O5E
22	1	306	CLA	C15-C16-C17-C18
22	a	841	CLA	C15-C16-C17-C18
22	b	840	CLA	C10-C11-C12-C13
22	a	816	CLA	CBA-CGA-O2A-C1
22	b	802	CLA	CBA-CGA-O2A-C1
22	b	831	CLA	CBA-CGA-O2A-C1
22	b	802	CLA	CBD-CGD-O2D-CED
22	a	818	CLA	O1D-CGD-O2D-CED
22	7	313	CLA	C3-C5-C6-C7
17	9	306	A1L1G	C40-C41-C42-C44
22	7	316	CLA	C2C-C3C-CAC-CBC
22	b	801	CLA	C2A-CAA-CBA-CGA
22	a	814	CLA	CBA-CGA-O2A-C1
22	a	838	CLA	CBA-CGA-O2A-C1
22	a	801	CLA	C8-C10-C11-C12
22	a	828	CLA	C13-C15-C16-C17
22	a	828	CLA	C15-C16-C17-C18
22	f	802	CLA	C13-C15-C16-C17
22	h	205	CLA	C5-C6-C7-C8
25	b	841	PQN	C23-C25-C26-C27
22	a	826	CLA	CBD-CGD-O2D-CED
22	7	308	CLA	C10-C11-C12-C13
22	a	831	CLA	C15-C16-C17-C18
22	b	836	CLA	C8-C10-C11-C12
22	f	802	CLA	C5-C6-C7-C8
22	8	313	CLA	O1A-CGA-O2A-C1
22	a	839	CLA	C13-C15-C16-C17
22	b	801	CLA	C13-C15-C16-C17
22	b	802	CLA	C8-C10-C11-C12
22	b	827	CLA	C13-C15-C16-C17
22	l	203	CLA	C8-C10-C11-C12
22	a	833	CLA	CBA-CGA-O2A-C1
22	a	844	CLA	CBA-CGA-O2A-C1
22	b	828	CLA	C2-C3-C5-C6
22	b	801	CLA	C8-C10-C11-C12
24	1	315	SQD	C8-C7-O47-C45
22	9	316	CLA	O1D-CGD-O2D-CED
24	1	315	SQD	O49-C7-O47-C45
22	7	306	CLA	O2A-C1-C2-C3
22	7	309	CLA	O2A-C1-C2-C3
22	9	310	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	a	824	CLA	CBA-CGA-O2A-C1
24	1	315	SQD	C24-C23-O48-C46
22	9	316	CLA	C16-C17-C18-C20
22	a	801	CLA	C16-C17-C18-C20
22	b	838	CLA	O1A-CGA-O2A-C1
17	9	306	A1L1G	C14-C29-C30-C31
17	9	301	A1L1G	C41-C42-C44-C43
17	9	306	A1L1G	C41-C42-C44-C43
17	9	301	A1L1G	C32-C33-C34-C27
17	7	302	A1L1G	C32-C33-C34-C27
19	9	303	XAT	C7-C8-C9-C19
26	a	850	BCR	C37-C22-C23-C24
26	f	801	BCR	C37-C22-C23-C24
17	9	301	A1L1G	C32-C33-C34-C35
18	8	304	A1L1F	C38-C39-C40-C41
19	9	303	XAT	C7-C8-C9-C10
19	8	301	XAT	C7-C8-C9-C10
19	7	304	XAT	C7-C8-C9-C10
26	a	850	BCR	C21-C22-C23-C24
26	f	801	BCR	C21-C22-C23-C24
22	a	816	CLA	O1A-CGA-O2A-C1
22	b	802	CLA	O1A-CGA-O2A-C1
22	7	310	CLA	C2A-CAA-CBA-CGA
22	b	831	CLA	C2A-CAA-CBA-CGA
22	h	205	CLA	C2A-CAA-CBA-CGA
22	b	829	CLA	C10-C11-C12-C13
22	b	839	CLA	C5-C6-C7-C8
22	a	806	CLA	O2A-C1-C2-C3
17	9	301	A1L1G	C29-C30-C31-C32
17	9	306	A1L1G	C29-C30-C31-C32
22	b	833	CLA	C16-C17-C18-C19
22	b	840	CLA	C16-C17-C18-C20
22	a	841	CLA	O1D-CGD-O2D-CED
22	b	823	CLA	O1D-CGD-O2D-CED
22	b	827	CLA	O1A-CGA-O2A-C1
17	9	301	A1L1G	C41-C42-C44-C2
17	9	306	A1L1G	C41-C42-C44-C2
22	a	814	CLA	O1A-CGA-O2A-C1
22	b	816	CLA	CBA-CGA-O2A-C1
22	b	824	CLA	C5-C6-C7-C8
22	7	317	CLA	O1D-CGD-O2D-CED
22	a	835	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	b	827	CLA	O1D-CGD-O2D-CED
22	a	818	CLA	C2-C1-O2A-CGA
22	9	316	CLA	C16-C17-C18-C19
22	b	811	CLA	C6-C7-C8-C9
22	a	854	CLA	C5-C6-C7-C8
23	b	848	DGD	C9B-CAB-CBB-CCB
22	a	836	CLA	CBD-CGD-O2D-CED
17	9	301	A1L1G	C35-C36-C37-C38
26	m	101	BCR	C14-C15-C16-C17
21	a	845	LHG	C11-C10-C9-C8
22	a	834	CLA	O1D-CGD-O2D-CED
22	b	827	CLA	C8-C10-C11-C12
25	a	843	PQN	C25-C26-C27-C28
22	b	831	CLA	O1A-CGA-O2A-C1
21	9	307	LHG	C31-C32-C33-C34
21	a	845	LHG	O1-C1-C2-O2
21	a	846	LHG	O1-C1-C2-O2
21	b	847	LHG	O1-C1-C2-O2
21	9	307	LHG	C34-C35-C36-C37
21	a	845	LHG	C27-C28-C29-C30
22	8	310	CLA	C4B-C3B-CAB-CBB
22	8	314	CLA	C4B-C3B-CAB-CBB
22	7	307	CLA	C4B-C3B-CAB-CBB
22	a	801	CLA	C4B-C3B-CAB-CBB
22	a	841	CLA	C4B-C3B-CAB-CBB
22	b	840	CLA	C4B-C3B-CAB-CBB
18	9	302	A1L1F	C45-C47-C48-C49
21	9	307	LHG	C28-C29-C30-C31
21	9	317	LHG	C9-C10-C11-C12
22	b	833	CLA	C16-C17-C18-C20
22	f	802	CLA	C16-C17-C18-C19
22	f	802	CLA	C16-C17-C18-C20
22	1	314	CLA	C2A-CAA-CBA-CGA
22	b	828	CLA	C2A-CAA-CBA-CGA
22	a	814	CLA	C10-C11-C12-C13
22	a	827	CLA	C8-C10-C11-C12
22	a	841	CLA	C8-C10-C11-C12
22	b	806	CLA	C15-C16-C17-C18
22	b	835	CLA	C5-C6-C7-C8
22	1	308	CLA	C11-C10-C8-C7
21	a	845	LHG	C13-C14-C15-C16
22	9	308	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	b	809	CLA	C10-C11-C12-C13
21	9	307	LHG	C27-C28-C29-C30
22	9	310	CLA	C3A-C2A-CAA-CBA
22	9	313	CLA	C3A-C2A-CAA-CBA
22	7	311	CLA	C3A-C2A-CAA-CBA
22	a	807	CLA	C3A-C2A-CAA-CBA
22	a	838	CLA	C3A-C2A-CAA-CBA
22	a	854	CLA	C3A-C2A-CAA-CBA
22	b	810	CLA	C3A-C2A-CAA-CBA
22	b	812	CLA	C3A-C2A-CAA-CBA
22	b	814	CLA	C3A-C2A-CAA-CBA
22	f	803	CLA	C3A-C2A-CAA-CBA
22	h	203	CLA	C3A-C2A-CAA-CBA
22	b	840	CLA	O1D-CGD-O2D-CED
22	a	814	CLA	C5-C6-C7-C8
22	h	203	CLA	C10-C11-C12-C13
22	b	811	CLA	C6-C7-C8-C10
22	a	833	CLA	O1A-CGA-O2A-C1
22	a	838	CLA	O1A-CGA-O2A-C1
22	a	844	CLA	O1A-CGA-O2A-C1
24	1	315	SQD	O10-C23-O48-C46
21	9	317	LHG	C28-C29-C30-C31
22	a	823	CLA	CBA-CGA-O2A-C1
22	b	807	CLA	CBA-CGA-O2A-C1
22	b	835	CLA	CBA-CGA-O2A-C1
18	8	304	A1L1F	C45-C47-C48-C49
21	9	317	LHG	C14-C15-C16-C17
24	1	315	SQD	C11-C10-C9-C8
22	a	807	CLA	O1D-CGD-O2D-CED
23	b	848	DGD	C4A-C5A-C6A-C7A
22	b	801	CLA	C16-C17-C18-C20
22	8	314	CLA	C2B-C3B-CAB-CBB
22	7	307	CLA	C2B-C3B-CAB-CBB
22	7	315	CLA	C2B-C3B-CAB-CBB
22	a	808	CLA	C2B-C3B-CAB-CBB
22	a	836	CLA	C2B-C3B-CAB-CBB
22	b	819	CLA	C2B-C3B-CAB-CBB
22	b	838	CLA	C2B-C3B-CAB-CBB
26	a	850	BCR	C23-C24-C25-C30
26	l	205	BCR	C23-C24-C25-C26
26	l	205	BCR	C23-C24-C25-C30
22	j	102	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	a	810	CLA	O1D-CGD-O2D-CED
22	b	824	CLA	CBA-CGA-O2A-C1
22	b	808	CLA	C5-C6-C7-C8
22	b	808	CLA	C3-C5-C6-C7
21	9	317	LHG	C11-C12-C13-C14
22	a	814	CLA	C2A-CAA-CBA-CGA
23	b	848	DGD	C4B-C5B-C6B-C7B
22	a	811	CLA	C11-C10-C8-C7
22	1	308	CLA	C4-C3-C5-C6
22	1	310	CLA	C4-C3-C5-C6
23	b	848	DGD	C2B-C3B-C4B-C5B
17	7	302	A1L1G	C31-C32-C33-C34
22	7	308	CLA	C2-C3-C5-C6
23	b	848	DGD	C3B-C4B-C5B-C6B
22	a	825	CLA	CBA-CGA-O2A-C1
22	9	308	CLA	O1A-CGA-O2A-C1
22	b	825	CLA	C11-C10-C8-C9
22	9	313	CLA	O1A-CGA-O2A-C1
22	a	840	CLA	C13-C15-C16-C17
22	b	816	CLA	O1A-CGA-O2A-C1
18	h	204	A1L1F	C40-C41-C42-C44
21	a	846	LHG	C8-C7-O7-C5
23	b	848	DGD	C2B-C1B-O2G-C2G
22	a	809	CLA	C13-C15-C16-C17
22	b	805	CLA	C13-C15-C16-C17
22	b	838	CLA	C15-C16-C17-C18
19	7	304	XAT	C7-C8-C9-C19
20	9	305	45D	C19-C23-C25-C27
22	b	804	CLA	C2C-C3C-CAC-CBC
20	9	305	45D	C19-C23-C25-C29
21	9	307	LHG	C30-C31-C32-C33
22	a	810	CLA	C2A-CAA-CBA-CGA
22	b	832	CLA	C2A-CAA-CBA-CGA
22	b	801	CLA	C16-C17-C18-C19
18	9	302	A1L1F	C48-C49-C50-C51
22	b	839	CLA	C4-C3-C5-C6
18	1	304	A1L1F	C47-C48-C49-C50
22	8	307	CLA	C15-C16-C17-C18
22	b	829	CLA	C15-C16-C17-C18
22	j	102	CLA	C8-C10-C11-C12
21	a	845	LHG	C26-C27-C28-C29
18	h	204	A1L1F	C47-C48-C49-C50

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Mol	Chain	Res	Type	Atoms
22	a	823	CLA	O1A-CGA-O2A-C1
22	b	807	CLA	O1A-CGA-O2A-C1
22	b	810	CLA	C5-C6-C7-C8
21	b	847	LHG	O6-C4-C5-O7
22	b	832	CLA	C15-C16-C17-C18
22	a	806	CLA	C16-C17-C18-C19
22	b	840	CLA	C16-C17-C18-C19
22	b	835	CLA	O1A-CGA-O2A-C1
24	1	315	SQD	C7-C8-C9-C10
22	a	806	CLA	C13-C15-C16-C17
22	8	310	CLA	CBA-CGA-O2A-C1
22	a	801	CLA	C16-C17-C18-C19
22	a	820	CLA	C16-C17-C18-C20
22	b	824	CLA	O1A-CGA-O2A-C1
22	b	834	CLA	C4-C3-C5-C6
22	1	308	CLA	C2-C3-C5-C6
22	b	839	CLA	C2-C3-C5-C6
21	a	846	LHG	O9-C7-O7-C5
22	b	810	CLA	C10-C11-C12-C13
22	a	822	CLA	C2A-CAA-CBA-CGA
22	9	313	CLA	CBD-CGD-O2D-CED
22	a	808	CLA	CBD-CGD-O2D-CED
22	1	305	CLA	C8-C10-C11-C12
22	a	844	CLA	C10-C11-C12-C13
22	b	813	CLA	C3-C5-C6-C7
22	9	310	CLA	C1A-C2A-CAA-CBA
22	9	313	CLA	C1A-C2A-CAA-CBA
22	7	306	CLA	C1A-C2A-CAA-CBA
22	7	311	CLA	C1A-C2A-CAA-CBA
22	7	313	CLA	C1A-C2A-CAA-CBA
22	1	306	CLA	C1A-C2A-CAA-CBA
22	a	807	CLA	C1A-C2A-CAA-CBA
22	a	817	CLA	C1A-C2A-CAA-CBA
22	a	819	CLA	C1A-C2A-CAA-CBA
22	a	825	CLA	C1A-C2A-CAA-CBA
22	b	816	CLA	C1A-C2A-CAA-CBA
22	b	817	CLA	C1A-C2A-CAA-CBA
22	b	837	CLA	C1A-C2A-CAA-CBA
22	f	803	CLA	C1A-C2A-CAA-CBA
22	b	809	CLA	C15-C16-C17-C18
21	a	845	LHG	O6-C4-C5-C6
22	a	839	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
22	b	801	CLA	C3-C5-C6-C7
22	9	316	CLA	C11-C12-C13-C15
22	a	807	CLA	C12-C13-C15-C16
22	a	810	CLA	C12-C13-C15-C16
22	a	822	CLA	C6-C7-C8-C10
22	a	830	CLA	C12-C13-C15-C16
22	a	841	CLA	C11-C10-C8-C7
22	a	844	CLA	C11-C12-C13-C15
22	b	807	CLA	C11-C10-C8-C7
22	b	807	CLA	C12-C13-C15-C16
22	b	818	CLA	C6-C7-C8-C10
22	b	822	CLA	C6-C7-C8-C10
22	b	824	CLA	C11-C10-C8-C7
22	b	825	CLA	C6-C7-C8-C10
22	b	827	CLA	C6-C7-C8-C10
22	b	833	CLA	C11-C12-C13-C15
22	b	838	CLA	C6-C7-C8-C10
22	f	802	CLA	C11-C12-C13-C15
22	b	814	CLA	C6-C7-C8-C10
18	h	204	A1L1F	C4-C8-O7-C54
22	9	316	CLA	C2-C3-C5-C6
22	7	316	CLA	C4C-C3C-CAC-CBC
23	b	848	DGD	CAB-CBB-CCB-CDB
22	a	812	CLA	C10-C11-C12-C13
22	b	829	CLA	C13-C15-C16-C17
22	b	835	CLA	C2C-C3C-CAC-CBC
21	b	847	LHG	C8-C7-O7-C5
22	8	308	CLA	C2A-CAA-CBA-CGA
22	a	806	CLA	C2A-CAA-CBA-CGA
22	1	308	CLA	C11-C10-C8-C9
22	a	807	CLA	C11-C12-C13-C14
22	a	809	CLA	C14-C13-C15-C16
22	a	814	CLA	C11-C10-C8-C9
22	a	822	CLA	C6-C7-C8-C9
22	a	827	CLA	C11-C10-C8-C9
22	a	842	CLA	C11-C12-C13-C14
22	a	844	CLA	C14-C13-C15-C16
22	b	801	CLA	C11-C12-C13-C14
22	b	803	CLA	C11-C10-C8-C9
22	b	807	CLA	C14-C13-C15-C16
22	b	808	CLA	C11-C10-C8-C9
22	b	822	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
22	b	824	CLA	C11-C10-C8-C9
22	b	825	CLA	C6-C7-C8-C9
22	b	836	CLA	C14-C13-C15-C16
23	b	848	DGD	CBB-CCB-CDB-CEB
22	8	307	CLA	CBA-CGA-O2A-C1
21	a	845	LHG	C4-C5-C6-O8
21	b	847	LHG	C4-C5-C6-O8
23	8	315	DGD	C2B-C3B-C4B-C5B
23	b	848	DGD	C6A-C7A-C8A-C9A
22	b	822	CLA	O1D-CGD-O2D-CED
21	9	317	LHG	C29-C30-C31-C32
22	b	807	CLA	O1D-CGD-O2D-CED
22	a	835	CLA	CBA-CGA-O2A-C1
22	a	844	CLA	C16-C17-C18-C19
22	a	825	CLA	O1A-CGA-O2A-C1
22	a	820	CLA	C8-C10-C11-C12
22	a	829	CLA	C10-C11-C12-C13
22	h	203	CLA	O1D-CGD-O2D-CED
22	b	838	CLA	C4-C3-C5-C6
22	a	854	CLA	C10-C11-C12-C13
19	7	303	XAT	C7-C8-C9-C19
22	b	818	CLA	C11-C12-C13-C14
21	9	317	LHG	C11-C10-C9-C8
22	1	308	CLA	C13-C15-C16-C17
22	b	839	CLA	C13-C15-C16-C17
25	a	843	PQN	C23-C25-C26-C27
22	a	841	CLA	CBA-CGA-O2A-C1
22	1	310	CLA	C5-C6-C7-C8
18	9	302	A1L1F	C49-C50-C51-C52
22	7	313	CLA	C5-C6-C7-C8
22	a	844	CLA	C16-C17-C18-C20
22	b	814	CLA	C6-C7-C8-C9
22	8	307	CLA	O1A-CGA-O2A-C1
22	9	314	CLA	C3-C5-C6-C7
22	b	836	CLA	C2C-C3C-CAC-CBC
22	b	804	CLA	C15-C16-C17-C18
22	8	310	CLA	O1D-CGD-O2D-CED
23	b	848	DGD	C2A-C1A-O1G-C1G
18	h	204	A1L1F	C48-C49-C50-C51
22	9	316	CLA	C4-C3-C5-C6
22	b	802	CLA	C4-C3-C5-C6
18	1	304	A1L1F	C50-C51-C52-C53

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Mol	Chain	Res	Type	Atoms
21	9	317	LHG	C12-C13-C14-C15
22	b	805	CLA	C16-C17-C18-C20
18	h	204	A1L1F	C3-C8-O7-C54
22	b	827	CLA	C15-C16-C17-C18
23	b	848	DGD	C3A-C4A-C5A-C6A
28	j	105	LMG	C13-C14-C15-C16
28	a	853	LMG	C14-C15-C16-C17
22	a	824	CLA	O1A-CGA-O2A-C1
22	f	802	CLA	O1D-CGD-O2D-CED
22	1	306	CLA	CBA-CGA-O2A-C1
22	1	310	CLA	CBA-CGA-O2A-C1
22	b	828	CLA	CBA-CGA-O2A-C1
22	1	311	CLA	CBD-CGD-O2D-CED
22	b	802	CLA	O1D-CGD-O2D-CED
22	a	810	CLA	C5-C6-C7-C8
22	a	829	CLA	C8-C10-C11-C12
22	a	811	CLA	C11-C10-C8-C9
22	a	805	CLA	C6-C7-C8-C9
22	8	314	CLA	CBD-CGD-O2D-CED
22	a	801	CLA	C4-C3-C5-C6
22	a	804	CLA	C2-C3-C5-C6
22	b	803	CLA	C2-C3-C5-C6
22	a	831	CLA	CBA-CGA-O2A-C1
22	b	811	CLA	CBA-CGA-O2A-C1
22	9	310	CLA	O1A-CGA-O2A-C1
22	9	316	CLA	C11-C12-C13-C14
22	7	308	CLA	C11-C10-C8-C9
22	a	810	CLA	C14-C13-C15-C16
22	a	814	CLA	C11-C12-C13-C14
22	a	830	CLA	C14-C13-C15-C16
22	a	835	CLA	C6-C7-C8-C9
22	a	841	CLA	C11-C10-C8-C9
22	a	844	CLA	C11-C10-C8-C9
22	a	844	CLA	C11-C12-C13-C14
22	b	803	CLA	C6-C7-C8-C9
22	b	810	CLA	C6-C7-C8-C9
22	b	818	CLA	C6-C7-C8-C9
22	b	828	CLA	C11-C12-C13-C14
22	b	837	CLA	C14-C13-C15-C16
22	j	102	CLA	C6-C7-C8-C9
22	a	826	CLA	C15-C16-C17-C18
21	9	317	LHG	C2-C3-O3-P

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Mol	Chain	Res	Type	Atoms
22	7	314	CLA	C4B-C3B-CAB-CBB
22	7	317	CLA	C4B-C3B-CAB-CBB
22	1	305	CLA	C4B-C3B-CAB-CBB
22	1	309	CLA	C4B-C3B-CAB-CBB
22	1	313	CLA	C4B-C3B-CAB-CBB
22	1	314	CLA	C4B-C3B-CAB-CBB
22	a	808	CLA	C4B-C3B-CAB-CBB
22	a	825	CLA	C4B-C3B-CAB-CBB
22	a	836	CLA	C4B-C3B-CAB-CBB
22	a	837	CLA	C4B-C3B-CAB-CBB
22	b	817	CLA	C4B-C3B-CAB-CBB
22	b	818	CLA	C4B-C3B-CAB-CBB
22	j	102	CLA	C4B-C3B-CAB-CBB
23	b	848	DGD	CCB-CDB-CEB-CFB
22	1	308	CLA	C15-C16-C17-C18
22	a	844	CLA	C15-C16-C17-C18
22	b	807	CLA	C10-C11-C12-C13
22	a	809	CLA	C2A-CAA-CBA-CGA
22	a	819	CLA	C2A-CAA-CBA-CGA
22	b	832	CLA	C3-C5-C6-C7
22	b	833	CLA	C3-C5-C6-C7
22	h	205	CLA	C3-C5-C6-C7
21	b	847	LHG	O6-C4-C5-C6
17	9	306	A1L1G	C26-C30-C31-C32
21	b	847	LHG	C9-C10-C11-C12
22	8	307	CLA	C11-C10-C8-C7
22	1	308	CLA	C11-C12-C13-C15
22	a	807	CLA	C11-C12-C13-C15
22	a	809	CLA	C6-C7-C8-C10
22	a	812	CLA	C6-C7-C8-C10
22	a	814	CLA	C11-C12-C13-C15
22	a	827	CLA	C11-C10-C8-C7
22	a	829	CLA	C6-C7-C8-C10
22	a	835	CLA	C6-C7-C8-C10
22	a	842	CLA	C11-C12-C13-C15
22	a	844	CLA	C11-C10-C8-C7
22	b	801	CLA	C11-C12-C13-C15
22	b	803	CLA	C6-C7-C8-C10
22	b	803	CLA	C11-C10-C8-C7
22	b	803	CLA	C12-C13-C15-C16
22	b	808	CLA	C11-C10-C8-C7
22	b	810	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
22	b	836	CLA	C12-C13-C15-C16
22	b	837	CLA	C12-C13-C15-C16
22	b	838	CLA	C12-C13-C15-C16
22	j	102	CLA	C6-C7-C8-C10
22	a	812	CLA	C8-C10-C11-C12
21	a	845	LHG	C7-C8-C9-C10
22	a	804	CLA	C4-C3-C5-C6
22	a	820	CLA	C4-C3-C5-C6
22	a	829	CLA	C3A-C2A-CAA-CBA
22	a	840	CLA	C4-C3-C5-C6
22	b	803	CLA	C4-C3-C5-C6
22	j	102	CLA	C3A-C2A-CAA-CBA
22	a	828	CLA	C2-C3-C5-C6
21	9	307	LHG	C25-C26-C27-C28
22	a	835	CLA	O1A-CGA-O2A-C1
22	b	801	CLA	C5-C6-C7-C8
28	j	105	LMG	C28-C29-C30-C31
22	a	836	CLA	O1D-CGD-O2D-CED
22	9	314	CLA	CBA-CGA-O2A-C1
17	9	306	A1L1G	C30-C31-C32-C33
17	7	302	A1L1G	C34-C35-C36-C37
17	9	306	A1L1G	C32-C33-C34-C27
18	h	204	A1L1F	C28-C39-C40-C41
22	a	826	CLA	O1D-CGD-O2D-CED
19	7	303	XAT	C7-C8-C9-C10
22	7	314	CLA	C2A-CAA-CBA-CGA
21	a	846	LHG	C4-C5-C6-O8
24	1	315	SQD	O6-C44-C45-C46
22	b	812	CLA	C5-C6-C7-C8
22	b	835	CLA	C3-C5-C6-C7
22	a	805	CLA	C6-C7-C8-C10
22	b	818	CLA	C11-C12-C13-C15
22	j	102	CLA	C5-C6-C7-C8
22	a	828	CLA	C4-C3-C5-C6
22	b	813	CLA	C4-C3-C5-C6
22	a	801	CLA	C2-C3-C5-C6
22	b	807	CLA	C2-C3-C5-C6
22	a	827	CLA	C3-C5-C6-C7
22	1	310	CLA	C16-C17-C18-C20
23	b	848	DGD	O1B-C1B-O2G-C2G
20	9	305	45D	C04-C08-C20-C24
22	7	317	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
22	1	309	CLA	C2B-C3B-CAB-CBB
22	a	825	CLA	C2B-C3B-CAB-CBB
22	a	837	CLA	C2B-C3B-CAB-CBB
22	a	841	CLA	C2B-C3B-CAB-CBB
22	b	817	CLA	C2B-C3B-CAB-CBB
22	j	102	CLA	C2B-C3B-CAB-CBB
26	b	843	BCR	C1-C6-C7-C8
26	m	101	BCR	C1-C6-C7-C8
22	a	830	CLA	C5-C6-C7-C8
22	b	822	CLA	C10-C11-C12-C13
21	9	307	LHG	C33-C34-C35-C36
22	a	806	CLA	C16-C17-C18-C20
21	a	845	LHG	C34-C35-C36-C37
22	b	807	CLA	C4-C3-C5-C6
17	9	306	A1L1G	C31-C32-C33-C34
22	a	820	CLA	C2-C3-C5-C6
22	b	813	CLA	C2-C3-C5-C6
22	a	820	CLA	C16-C17-C18-C19
22	a	803	CLA	C15-C16-C17-C18
22	a	806	CLA	CBD-CGD-O2D-CED
22	1	308	CLA	C11-C12-C13-C14
22	1	310	CLA	C6-C7-C8-C9
22	1	310	CLA	C11-C10-C8-C9
22	a	807	CLA	C14-C13-C15-C16
22	a	829	CLA	C6-C7-C8-C9
22	b	802	CLA	C11-C10-C8-C9
22	b	824	CLA	C11-C12-C13-C14
22	b	832	CLA	C14-C13-C15-C16
23	b	848	DGD	C7A-C8A-C9A-CAA
22	a	841	CLA	O1A-CGA-O2A-C1
22	9	308	CLA	C16-C17-C18-C19
22	j	103	CLA	C1A-C2A-CAA-CBA
22	b	803	CLA	C13-C15-C16-C17
22	b	806	CLA	C10-C11-C12-C13
18	1	304	A1L1F	C14-C29-C30-C31
17	1	301	A1L1G	C37-C38-C39-C28
22	b	811	CLA	O1A-CGA-O2A-C1
21	9	317	LHG	O6-C4-C5-C6
21	a	846	LHG	O6-C4-C5-C6
22	9	308	CLA	C11-C12-C13-C15
22	9	318	CLA	C11-C10-C8-C7
22	8	309	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
22	1	306	CLA	C6-C7-C8-C10
22	a	801	CLA	C6-C7-C8-C10
22	a	802	CLA	C6-C7-C8-C10
22	a	814	CLA	C6-C7-C8-C10
22	a	820	CLA	C11-C12-C13-C15
22	a	829	CLA	C11-C10-C8-C7
22	b	813	CLA	C11-C10-C8-C7
22	b	824	CLA	C6-C7-C8-C10
22	b	828	CLA	C12-C13-C15-C16
22	b	829	CLA	C12-C13-C15-C16
22	b	832	CLA	C12-C13-C15-C16
22	a	854	CLA	C8-C10-C11-C12
23	b	848	DGD	O1A-C1A-O1G-C1G
22	b	838	CLA	C13-C15-C16-C17
22	b	827	CLA	C16-C17-C18-C20
21	b	847	LHG	O9-C7-O7-C5
22	a	807	CLA	C4-C3-C5-C6
22	b	810	CLA	CAA-CBA-CGA-O2A
22	1	310	CLA	C2-C3-C5-C6
22	a	840	CLA	C2-C3-C5-C6
28	a	853	LMG	C12-C13-C14-C15
22	b	807	CLA	C5-C6-C7-C8
22	b	828	CLA	C5-C6-C7-C8
28	a	853	LMG	C9-C8-O7-C10
22	1	310	CLA	O1A-CGA-O2A-C1
22	a	831	CLA	O1A-CGA-O2A-C1
22	b	828	CLA	O1A-CGA-O2A-C1
22	1	310	CLA	C16-C17-C18-C19
21	9	307	LHG	C32-C33-C34-C35
22	9	313	CLA	O1D-CGD-O2D-CED
22	9	314	CLA	O1A-CGA-O2A-C1
22	1	306	CLA	O1A-CGA-O2A-C1
22	9	318	CLA	CBA-CGA-O2A-C1
22	a	842	CLA	C8-C10-C11-C12
24	1	315	SQD	C9-C10-C11-C12
23	8	315	DGD	C1G-C2G-C3G-O3G
22	a	827	CLA	C5-C6-C7-C8
22	9	308	CLA	C16-C17-C18-C20
22	1	306	CLA	C16-C17-C18-C20
22	b	805	CLA	C16-C17-C18-C19
22	b	834	CLA	C2-C3-C5-C6
17	7	302	A1L1G	C45-C2-C44-C43

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Mol	Chain	Res	Type	Atoms
18	8	304	A1L1F	C57-C2-C44-C43
22	1	306	CLA	C3-C5-C6-C7
23	8	315	DGD	O2G-C2G-C3G-O3G
22	9	308	CLA	C11-C10-C8-C9
22	9	308	CLA	C11-C12-C13-C14
22	8	309	CLA	C11-C10-C8-C9
22	1	306	CLA	C11-C10-C8-C9
22	a	801	CLA	C6-C7-C8-C9
22	a	802	CLA	C6-C7-C8-C9
22	a	820	CLA	C11-C12-C13-C14
22	a	840	CLA	C11-C10-C8-C9
22	b	802	CLA	C6-C7-C8-C9
22	b	802	CLA	C11-C12-C13-C14
22	b	804	CLA	C6-C7-C8-C9
22	b	806	CLA	C6-C7-C8-C9
22	b	813	CLA	C11-C10-C8-C9
22	b	838	CLA	C11-C12-C13-C14
22	b	838	CLA	C14-C13-C15-C16
21	a	845	LHG	C9-C10-C11-C12
22	a	841	CLA	C13-C15-C16-C17
22	b	808	CLA	C16-C17-C18-C20
22	a	808	CLA	O1D-CGD-O2D-CED
22	b	817	CLA	C10-C11-C12-C13
22	b	810	CLA	C16-C17-C18-C19
22	8	311	CLA	C3-C5-C6-C7
22	j	102	CLA	O1D-CGD-O2D-CED
20	9	305	45D	C31-C33-C35-C39
22	9	311	CLA	C4B-C3B-CAB-CBB
22	9	318	CLA	C4B-C3B-CAB-CBB
22	8	313	CLA	C4B-C3B-CAB-CBB
22	a	807	CLA	C4B-C3B-CAB-CBB
22	a	813	CLA	C4B-C3B-CAB-CBB
22	a	817	CLA	C4B-C3B-CAB-CBB
22	a	819	CLA	C4B-C3B-CAB-CBB
22	a	824	CLA	C1A-C2A-CAA-CBA
22	a	824	CLA	C4B-C3B-CAB-CBB
22	b	801	CLA	C4B-C3B-CAB-CBB
22	b	809	CLA	C4B-C3B-CAB-CBB
22	b	813	CLA	C1A-C2A-CAA-CBA
22	b	823	CLA	C1A-C2A-CAA-CBA
22	b	828	CLA	C4B-C3B-CAB-CBB
22	b	834	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
22	b	837	CLA	C4B-C3B-CAB-CBB
22	f	803	CLA	C4B-C3B-CAB-CBB
22	j	103	CLA	C4B-C3B-CAB-CBB
17	7	302	A1L1G	C32-C33-C34-C35
18	h	204	A1L1F	C38-C39-C40-C41
22	b	802	CLA	C2A-CAA-CBA-CGA
22	b	808	CLA	C2A-CAA-CBA-CGA
22	b	818	CLA	C8-C10-C11-C12
22	8	307	CLA	C6-C7-C8-C10
22	a	842	CLA	C12-C13-C15-C16
22	b	801	CLA	C11-C10-C8-C7
22	b	801	CLA	C12-C13-C15-C16
22	b	806	CLA	C11-C12-C13-C15
22	b	810	CLA	C11-C10-C8-C7
22	b	827	CLA	C11-C10-C8-C7
22	b	829	CLA	C11-C12-C13-C15
25	a	843	PQN	C22-C23-C25-C26
28	a	853	LMG	C31-C32-C33-C34
22	7	313	CLA	CBD-CGD-O2D-CED
22	1	307	CLA	C5-C6-C7-C8
22	9	316	CLA	C3A-C2A-CAA-CBA
21	9	317	LHG	O6-C4-C5-O7
24	1	315	SQD	C13-C14-C15-C16
22	a	809	CLA	C6-C7-C8-C9
22	a	814	CLA	C6-C7-C8-C9
22	a	830	CLA	C8-C10-C11-C12
26	m	101	BCR	C13-C14-C15-C16
22	8	314	CLA	O1D-CGD-O2D-CED
22	9	308	CLA	C10-C11-C12-C13
22	a	823	CLA	C1-C2-C3-C4
22	b	831	CLA	C1-C2-C3-C4
22	8	310	CLA	O1A-CGA-O2A-C1
22	a	806	CLA	O1D-CGD-O2D-CED
18	8	304	A1L1F	C47-C48-C49-C50
22	b	814	CLA	C3-C5-C6-C7
22	9	318	CLA	O1A-CGA-O2A-C1
21	a	846	LHG	O7-C5-C6-O8
21	b	847	LHG	O7-C5-C6-O8
24	1	315	SQD	O6-C44-C45-O47
22	7	312	CLA	O2A-C1-C2-C3
22	b	840	CLA	C15-C16-C17-C18
22	a	809	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
17	9	301	A1L1G	O13-C26-C30-C31
22	9	313	CLA	CAD-CBD-CGD-O2D
22	8	309	CLA	CAD-CBD-CGD-O2D
22	8	314	CLA	CAD-CBD-CGD-O2D
22	1	313	CLA	CAD-CBD-CGD-O2D
22	a	814	CLA	CAD-CBD-CGD-O2D
22	a	839	CLA	CAD-CBD-CGD-O2D
22	a	844	CLA	CAD-CBD-CGD-O2D
22	b	832	CLA	CAD-CBD-CGD-O2D
22	b	836	CLA	CAD-CBD-CGD-O2D
22	1	311	CLA	CBA-CGA-O2A-C1
22	8	309	CLA	C2A-CAA-CBA-CGA
22	b	824	CLA	C2A-CAA-CBA-CGA
21	a	846	LHG	C10-C11-C12-C13
19	7	301	XAT	C29-C30-C31-C32
19	j	101	XAT	C9-C10-C11-C12
21	9	317	LHG	C3-O3-P-O5
21	9	317	LHG	C3-O3-P-O6
21	9	317	LHG	C4-O6-P-O3
21	9	317	LHG	C4-O6-P-O5
21	a	845	LHG	C3-O3-P-O5
21	a	846	LHG	C3-O3-P-O5
21	a	846	LHG	C4-O6-P-O3
21	a	846	LHG	C4-O6-P-O5
22	9	313	CLA	CAD-CBD-CGD-O1D
22	9	315	CLA	CAD-CBD-CGD-O1D
22	8	309	CLA	CAD-CBD-CGD-O1D
22	8	314	CLA	CAD-CBD-CGD-O1D
22	7	309	CLA	CHA-CBD-CGD-O2D
22	7	309	CLA	CAD-CBD-CGD-O2D
22	1	313	CLA	CAD-CBD-CGD-O1D
22	a	806	CLA	CAD-CBD-CGD-O1D
22	a	814	CLA	CAD-CBD-CGD-O1D
22	a	828	CLA	CAD-CBD-CGD-O1D
22	a	839	CLA	CAD-CBD-CGD-O1D
22	a	844	CLA	CAD-CBD-CGD-O1D
22	b	821	CLA	CHA-CBD-CGD-O1D
22	b	832	CLA	CAD-CBD-CGD-O1D
22	b	835	CLA	CAD-CBD-CGD-O1D
22	b	836	CLA	CAD-CBD-CGD-O1D
22	f	802	CLA	CAD-CBD-CGD-O1D
22	f	803	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	j	102	CLA	CHA-CBD-CGD-O1D
22	j	102	CLA	CHA-CBD-CGD-O2D
22	b	822	CLA	C3-C5-C6-C7
22	a	841	CLA	C4-C3-C5-C6
22	h	205	CLA	C4-C3-C5-C6
22	9	318	CLA	C2B-C3B-CAB-CBB
22	8	310	CLA	C2B-C3B-CAB-CBB
22	8	313	CLA	C2B-C3B-CAB-CBB
22	1	314	CLA	C2B-C3B-CAB-CBB
22	a	819	CLA	C2B-C3B-CAB-CBB
22	b	801	CLA	C2B-C3B-CAB-CBB
22	b	834	CLA	C2B-C3B-CAB-CBB
22	b	837	CLA	C2B-C3B-CAB-CBB
22	b	840	CLA	C2B-C3B-CAB-CBB
22	f	803	CLA	C2B-C3B-CAB-CBB
26	l	201	BCR	C1-C6-C7-C8
22	a	807	CLA	C2-C3-C5-C6
22	b	838	CLA	C2-C3-C5-C6
22	a	834	CLA	C5-C6-C7-C8
22	b	824	CLA	C8-C10-C11-C12
21	9	307	LHG	C2-C3-O3-P
22	b	839	CLA	C2C-C3C-CAC-CBC
22	1	308	CLA	C16-C17-C18-C19
22	b	808	CLA	C16-C17-C18-C19
22	1	308	CLA	CBD-CGD-O2D-CED
22	b	803	CLA	C3-C5-C6-C7
21	9	317	LHG	C10-C11-C12-C13
24	1	315	SQD	C46-C45-O47-C7
22	1	311	CLA	O1A-CGA-O2A-C1
22	a	830	CLA	C16-C17-C18-C19
22	b	805	CLA	CBA-CGA-O2A-C1
22	a	839	CLA	C15-C16-C17-C18
22	a	807	CLA	C6-C7-C8-C9
22	a	812	CLA	C6-C7-C8-C9
22	b	803	CLA	C14-C13-C15-C16
22	b	804	CLA	C11-C12-C13-C14
22	b	807	CLA	C11-C12-C13-C14
22	b	810	CLA	C11-C10-C8-C9
22	b	828	CLA	C14-C13-C15-C16
22	b	802	CLA	C11-C12-C13-C15
22	b	807	CLA	C11-C12-C13-C15
21	9	317	LHG	C13-C14-C15-C16

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Mol	Chain	Res	Type	Atoms
22	b	805	CLA	O1A-CGA-O2A-C1
22	b	827	CLA	C10-C11-C12-C13
22	b	832	CLA	C2C-C3C-CAC-CBC
22	b	817	CLA	CBA-CGA-O2A-C1
22	8	307	CLA	C16-C17-C18-C20
22	b	817	CLA	O1A-CGA-O2A-C1
22	1	305	CLA	C2A-CAA-CBA-CGA
22	1	308	CLA	C2A-CAA-CBA-CGA
22	a	821	CLA	C2A-CAA-CBA-CGA
22	7	308	CLA	C8-C10-C11-C12
22	a	802	CLA	C4-C3-C5-C6
22	b	827	CLA	C16-C17-C18-C19
22	b	801	CLA	O1A-CGA-O2A-C1
22	a	801	CLA	CAA-CBA-CGA-O2A
22	a	854	CLA	CBD-CGD-O2D-CED
21	b	847	LHG	C25-C26-C27-C28
17	9	306	A1L1G	C32-C33-C34-C35
22	a	813	CLA	C2A-CAA-CBA-CGA
22	1	311	CLA	O1D-CGD-O2D-CED
17	1	301	A1L1G	C40-C41-C42-C44
22	b	801	CLA	CBA-CGA-O2A-C1
22	b	803	CLA	C16-C17-C18-C20
22	a	801	CLA	C14-C13-C15-C16
22	a	826	CLA	C11-C10-C8-C9
22	a	842	CLA	C14-C13-C15-C16
22	b	827	CLA	C11-C10-C8-C9
25	a	843	PQN	C24-C23-C25-C26
22	9	309	CLA	C4B-C3B-CAB-CBB
22	a	832	CLA	C4B-C3B-CAB-CBB
22	b	830	CLA	C4B-C3B-CAB-CBB
22	1	308	CLA	O1D-CGD-O2D-CED
22	a	813	CLA	CBA-CGA-O2A-C1
22	a	830	CLA	C15-C16-C17-C18
22	a	854	CLA	C15-C16-C17-C18
22	a	813	CLA	O1A-CGA-O2A-C1
22	b	827	CLA	C2A-CAA-CBA-CGA
22	a	802	CLA	C2-C3-C5-C6
22	a	841	CLA	C2-C3-C5-C6
22	b	802	CLA	C2-C3-C5-C6
17	9	301	A1L1G	C34-C35-C36-C37
17	7	302	A1L1G	C36-C37-C38-C39
22	a	830	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
22	a	826	CLA	C11-C10-C8-C7
22	a	831	CLA	C11-C10-C8-C7
22	b	802	CLA	C12-C13-C15-C16
22	f	802	CLA	C6-C7-C8-C10
22	h	203	CLA	C13-C15-C16-C17
22	8	307	CLA	C16-C17-C18-C19
22	1	308	CLA	C16-C17-C18-C20
23	b	848	DGD	O2G-C2G-C3G-O3G
22	a	830	CLA	C4-C3-C5-C6
22	b	813	CLA	C3A-C2A-CAA-CBA
22	b	831	CLA	C3A-C2A-CAA-CBA
26	b	844	BCR	C11-C10-C9-C34
26	b	844	BCR	C20-C21-C22-C37
26	f	804	BCR	C35-C13-C14-C15
26	l	201	BCR	C11-C10-C9-C34
22	a	812	CLA	C3-C5-C6-C7
18	9	302	A1L1F	C3-C8-O7-C54
18	h	204	A1L1F	C36-C37-C38-C39
20	9	305	45D	C36-C38-C42-C41
22	7	308	CLA	C2-C1-O2A-CGA
22	b	839	CLA	C16-C17-C18-C20
19	7	303	XAT	C11-C12-C13-C20
22	a	820	CLA	C13-C15-C16-C17
22	a	854	CLA	O1D-CGD-O2D-CED
22	b	813	CLA	C10-C11-C12-C13
21	a	846	LHG	C1-C2-C3-O3
22	8	307	CLA	C2A-CAA-CBA-CGA
22	1	310	CLA	C11-C12-C13-C14
22	a	822	CLA	C11-C10-C8-C9
22	a	829	CLA	C11-C12-C13-C14
22	a	831	CLA	C6-C7-C8-C9
22	a	831	CLA	C11-C10-C8-C9
22	a	844	CLA	C6-C7-C8-C9
22	a	854	CLA	C11-C10-C8-C9
22	b	808	CLA	C6-C7-C8-C9
21	a	845	LHG	C25-C26-C27-C28
22	a	839	CLA	C16-C17-C18-C20
22	8	312	CLA	CBD-CGD-O2D-CED
22	8	305	CLA	CBD-CGD-O2D-CED
22	a	832	CLA	CBD-CGD-O2D-CED
22	b	840	CLA	O1A-CGA-O2A-C1
22	9	314	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
22	9	316	CLA	C2A-CAA-CBA-CGA
22	a	803	CLA	C2A-CAA-CBA-CGA
22	b	815	CLA	C1A-C2A-CAA-CBA
22	b	822	CLA	C1A-C2A-CAA-CBA
22	b	834	CLA	C1A-C2A-CAA-CBA
26	b	844	BCR	C11-C10-C9-C8
26	b	844	BCR	C20-C21-C22-C23
26	f	804	BCR	C12-C13-C14-C15
26	l	201	BCR	C11-C10-C9-C8
20	9	305	45D	C16-C08-C20-C24
22	9	309	CLA	C2B-C3B-CAB-CBB
22	9	313	CLA	C2B-C3B-CAB-CBB
22	7	314	CLA	C2B-C3B-CAB-CBB
22	1	313	CLA	C2B-C3B-CAB-CBB
22	a	801	CLA	C2B-C3B-CAB-CBB
22	a	807	CLA	C2B-C3B-CAB-CBB
22	a	810	CLA	C2B-C3B-CAB-CBB
22	a	813	CLA	C2B-C3B-CAB-CBB
22	a	817	CLA	C2B-C3B-CAB-CBB
22	a	824	CLA	C2B-C3B-CAB-CBB
22	a	832	CLA	C2B-C3B-CAB-CBB
22	b	809	CLA	C2B-C3B-CAB-CBB
22	b	828	CLA	C2B-C3B-CAB-CBB
22	b	830	CLA	C2B-C3B-CAB-CBB
22	j	103	CLA	C2B-C3B-CAB-CBB
26	b	843	BCR	C5-C6-C7-C8
26	b	849	BCR	C23-C24-C25-C30
26	l	205	BCR	C1-C6-C7-C8
26	m	101	BCR	C5-C6-C7-C8
22	a	801	CLA	CBA-CGA-O2A-C1
22	b	840	CLA	CBA-CGA-O2A-C1
22	a	801	CLA	O1A-CGA-O2A-C1
22	b	808	CLA	C4-C3-C5-C6
22	a	830	CLA	C2-C3-C5-C6
22	8	312	CLA	O1D-CGD-O2D-CED
22	7	306	CLA	C2A-CAA-CBA-CGA
22	b	809	CLA	C2A-CAA-CBA-CGA
22	7	307	CLA	CAA-CBA-CGA-O2A
22	a	817	CLA	CAA-CBA-CGA-O1A
21	a	845	LHG	C14-C15-C16-C17
22	1	305	CLA	C3-C5-C6-C7
22	a	817	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
21	9	317	LHG	C15-C16-C17-C18
22	h	203	CLA	C8-C10-C11-C12
19	7	301	XAT	C7-C8-C9-C19
22	1	307	CLA	C6-C7-C8-C9
22	b	817	CLA	CBD-CGD-O2D-CED
22	b	808	CLA	C2-C3-C5-C6
22	7	313	CLA	O1D-CGD-O2D-CED
22	8	305	CLA	O1D-CGD-O2D-CED
22	a	832	CLA	O1D-CGD-O2D-CED
28	a	853	LMG	C11-C12-C13-C14
22	7	317	CLA	CAA-CBA-CGA-O2A
22	b	837	CLA	C11-C12-C13-C14
19	8	302	XAT	C9-C10-C11-C12
22	b	839	CLA	C4C-C3C-CAC-CBC
22	a	835	CLA	C4-C3-C5-C6
22	7	307	CLA	CAA-CBA-CGA-O1A
22	a	835	CLA	C2-C3-C5-C6
22	a	826	CLA	C13-C15-C16-C17
22	b	833	CLA	C4-C3-C5-C6
22	a	819	CLA	CAA-CBA-CGA-O2A
24	1	315	SQD	C15-C16-C17-C18
22	9	313	CLA	C4B-C3B-CAB-CBB
22	8	306	CLA	C4B-C3B-CAB-CBB
22	a	810	CLA	C4B-C3B-CAB-CBB
22	a	842	CLA	O1A-CGA-O2A-C1
22	9	312	CLA	CAA-CBA-CGA-O2A
22	a	830	CLA	O1A-CGA-O2A-C1
22	1	314	CLA	CAA-CBA-CGA-O2A
22	b	817	CLA	O1D-CGD-O2D-CED
22	1	306	CLA	C16-C17-C18-C19
22	b	813	CLA	C16-C17-C18-C19
22	8	311	CLA	C6-C7-C8-C10
22	1	314	CLA	CAA-CBA-CGA-O1A
22	b	802	CLA	C10-C11-C12-C13
22	7	317	CLA	CAA-CBA-CGA-O1A
22	a	828	CLA	C14-C13-C15-C16
22	a	839	CLA	C6-C7-C8-C9
22	a	840	CLA	C14-C13-C15-C16
22	b	806	CLA	C11-C12-C13-C14
22	b	829	CLA	C11-C12-C13-C14
22	a	804	CLA	O1A-CGA-O2A-C1
22	a	813	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
22	a	839	CLA	C2A-CAA-CBA-CGA
22	b	813	CLA	C5-C6-C7-C8
22	a	830	CLA	CBA-CGA-O2A-C1
22	a	842	CLA	CBA-CGA-O2A-C1
22	9	311	CLA	C3A-C2A-CAA-CBA
22	1	310	CLA	C3A-C2A-CAA-CBA
22	b	809	CLA	C3A-C2A-CAA-CBA
21	9	317	LHG	O1-C1-C2-C3
22	b	813	CLA	C13-C15-C16-C17
22	l	204	CLA	CAA-CBA-CGA-O2A
23	b	848	DGD	C1B-C2B-C3B-C4B
22	a	804	CLA	CBA-CGA-O2A-C1
25	a	843	PQN	C18-C20-C21-C22
19	9	303	XAT	O24-C26-C27-C28
19	8	301	XAT	O24-C26-C27-C28
19	7	305	XAT	O4-C6-C7-C8
19	7	305	XAT	O24-C26-C27-C28
22	9	316	CLA	C8-C10-C11-C12
22	b	833	CLA	C15-C16-C17-C18
28	j	105	LMG	C11-C12-C13-C14
22	9	313	CLA	CAA-CBA-CGA-O2A
22	h	205	CLA	C2-C3-C5-C6
19	7	304	XAT	C9-C10-C11-C12
22	a	804	CLA	C6-C7-C8-C9
21	9	317	LHG	C35-C36-C37-C38
22	b	803	CLA	C10-C11-C12-C13
21	9	307	LHG	O7-C5-C6-O8
22	8	307	CLA	C6-C7-C8-C9
22	b	803	CLA	CAA-CBA-CGA-O2A
19	a	852	XAT	C31-C32-C33-C34
20	9	305	45D	C31-C33-C35-C37
22	9	308	CLA	C2A-CAA-CBA-CGA
22	b	818	CLA	C2A-CAA-CBA-CGA
22	1	305	CLA	C11-C10-C8-C7
22	a	801	CLA	C11-C10-C8-C7
22	a	835	CLA	C11-C12-C13-C15
22	a	839	CLA	C6-C7-C8-C10
22	a	840	CLA	C12-C13-C15-C16
22	b	837	CLA	C11-C12-C13-C15
22	b	835	CLA	C4C-C3C-CAC-CBC
22	8	306	CLA	C2B-C3B-CAB-CBB
22	1	305	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
22	b	818	CLA	C2B-C3B-CAB-CBB
26	b	846	BCR	C1-C6-C7-C8
26	b	846	BCR	C5-C6-C7-C8
26	b	849	BCR	C23-C24-C25-C26
26	f	804	BCR	C23-C24-C25-C26
26	f	804	BCR	C23-C24-C25-C30
26	l	201	BCR	C5-C6-C7-C8
26	l	205	BCR	C5-C6-C7-C8
22	b	837	CLA	CAA-CBA-CGA-O2A
22	7	306	CLA	C2-C1-O2A-CGA
22	a	814	CLA	C2-C1-O2A-CGA
22	a	822	CLA	C2-C1-O2A-CGA
22	b	810	CLA	C2-C1-O2A-CGA
22	b	824	CLA	C10-C11-C12-C13
22	1	309	CLA	CAA-CBA-CGA-O2A
22	a	818	CLA	CAA-CBA-CGA-O2A
22	a	829	CLA	CAA-CBA-CGA-O2A
18	9	302	A1L1F	O13-C26-C30-C29
18	9	302	A1L1F	C50-C51-C52-C53
22	a	827	CLA	C10-C11-C12-C13
22	1	306	CLA	CAA-CBA-CGA-O2A
22	b	801	CLA	CAA-CBA-CGA-O2A
22	b	807	CLA	C16-C17-C18-C19
24	1	315	SQD	O47-C7-C8-C9
22	j	102	CLA	C3-C5-C6-C7
18	h	204	A1L1F	C14-C29-C30-C31
22	a	829	CLA	C2A-CAA-CBA-CGA
18	8	304	A1L1F	C3-C8-O7-C54
22	a	801	CLA	C11-C10-C8-C9
22	b	807	CLA	CAA-CBA-CGA-O2A
28	j	105	LMG	C7-C8-C9-O8
22	b	803	CLA	C5-C6-C7-C8
22	9	311	CLA	C1A-C2A-CAA-CBA
22	a	803	CLA	C1A-C2A-CAA-CBA
22	a	814	CLA	C1A-C2A-CAA-CBA
22	a	840	CLA	C4B-C3B-CAB-CBB
22	b	803	CLA	C4B-C3B-CAB-CBB
22	b	825	CLA	C1A-C2A-CAA-CBA
22	8	308	CLA	C4-C3-C5-C6
23	8	315	DGD	O6D-C1D-O3G-C3G
26	m	101	BCR	C22-C23-C24-C25
22	a	810	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
26	f	801	BCR	C17-C18-C19-C20
22	b	810	CLA	CAA-CBA-CGA-O1A
22	a	836	CLA	CAA-CBA-CGA-O2A
22	h	205	CLA	CAA-CBA-CGA-O2A
22	a	841	CLA	C2A-CAA-CBA-CGA
21	9	317	LHG	C27-C28-C29-C30
22	b	838	CLA	C3-C5-C6-C7
22	b	819	CLA	C6-C7-C8-C9
22	b	809	CLA	CAA-CBA-CGA-O2A
22	b	817	CLA	CAA-CBA-CGA-O2A
22	7	316	CLA	C2-C3-C5-C6
22	a	810	CLA	C2-C1-O2A-CGA
22	1	312	CLA	CAA-CBA-CGA-O2A
22	b	832	CLA	CAA-CBA-CGA-O2A
22	1	310	CLA	C12-C13-C15-C16
22	a	801	CLA	C11-C12-C13-C15
22	a	834	CLA	C11-C12-C13-C15
22	b	805	CLA	C11-C12-C13-C15
22	b	818	CLA	C11-C10-C8-C7
22	l	203	CLA	C6-C7-C8-C10
22	a	826	CLA	C10-C11-C12-C13
22	b	810	CLA	C16-C17-C18-C20
21	9	307	LHG	C6-C5-O7-C7
22	a	834	CLA	C10-C11-C12-C13
21	a	845	LHG	O8-C23-C24-C25
22	9	315	CLA	C2C-C3C-CAC-CBC
21	9	317	LHG	C30-C31-C32-C33
22	j	102	CLA	C10-C11-C12-C13
22	j	102	CLA	CAA-CBA-CGA-O2A
22	9	312	CLA	C3A-C2A-CAA-CBA
22	1	306	CLA	C3A-C2A-CAA-CBA
22	a	814	CLA	C3A-C2A-CAA-CBA
22	a	801	CLA	C5-C6-C7-C8
22	a	810	CLA	C16-C17-C18-C20
22	a	814	CLA	C16-C17-C18-C19
22	b	801	CLA	CAA-CBA-CGA-O1A
22	b	817	CLA	CAA-CBA-CGA-O1A
22	b	837	CLA	CAA-CBA-CGA-O1A
18	9	302	A1L1F	O46-C45-O13-C26
22	a	818	CLA	CAA-CBA-CGA-O1A
22	7	308	CLA	C2A-CAA-CBA-CGA
22	a	801	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
22	a	834	CLA	C11-C12-C13-C14
22	f	802	CLA	C6-C7-C8-C9
24	1	315	SQD	O49-C7-C8-C9
22	7	309	CLA	O1A-CGA-O2A-C1
22	9	314	CLA	C4-C3-C5-C6
19	7	301	XAT	C7-C8-C9-C10
26	i	101	BCR	C17-C18-C19-C20
22	b	807	CLA	CAA-CBA-CGA-O1A
22	b	824	CLA	C15-C16-C17-C18
22	b	832	CLA	CAA-CBA-CGA-O1A
22	b	813	CLA	CBD-CGD-O2D-CED
22	b	809	CLA	CAA-CBA-CGA-O1A
22	9	314	CLA	CAA-CBA-CGA-O2A
22	a	813	CLA	CAA-CBA-CGA-O2A
22	h	205	CLA	CAA-CBA-CGA-O1A
22	7	309	CLA	CBA-CGA-O2A-C1
22	9	309	CLA	CAD-CBD-CGD-O2D
22	8	313	CLA	CAD-CBD-CGD-O2D
22	7	306	CLA	CAD-CBD-CGD-O2D
22	a	810	CLA	CAD-CBD-CGD-O2D
22	a	816	CLA	CAD-CBD-CGD-O2D
22	a	828	CLA	CAD-CBD-CGD-O2D
22	a	832	CLA	CAD-CBD-CGD-O2D
22	a	854	CLA	CAD-CBD-CGD-O2D
22	b	835	CLA	CAD-CBD-CGD-O2D
22	1	312	CLA	CAA-CBA-CGA-O1A
22	a	836	CLA	CAA-CBA-CGA-O1A
22	a	816	CLA	C2-C1-O2A-CGA
22	a	839	CLA	C2-C1-O2A-CGA
22	7	316	CLA	CAA-CBA-CGA-O2A
22	a	826	CLA	C8-C10-C11-C12
22	b	829	CLA	O1A-CGA-O2A-C1
22	b	824	CLA	C4-C3-C5-C6
22	7	308	CLA	CAA-CBA-CGA-O2A
22	a	835	CLA	CAA-CBA-CGA-O2A
22	b	804	CLA	CAA-CBA-CGA-O2A
22	7	308	CLA	C5-C6-C7-C8
22	a	810	CLA	CAA-CBA-CGA-O1A
22	j	102	CLA	CAA-CBA-CGA-O1A
24	1	315	SQD	C12-C13-C14-C15
22	a	820	CLA	CBD-CGD-O2D-CED
18	9	302	A1L1F	C47-C45-O13-C26

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Mol	Chain	Res	Type	Atoms
22	7	314	CLA	CAA-CBA-CGA-O2A

All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
18	h	204	A1L1F	C1-C11-C3-C4-C6-C8

170 monomers are involved in 528 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	8	308	CLA	1	0
22	b	833	CLA	3	0
19	9	304	XAT	6	0
20	9	305	45D	8	0
22	j	103	CLA	2	0
17	9	306	A1L1G	1	0
26	b	845	BCR	5	0
22	a	804	CLA	4	0
22	a	828	CLA	4	0
22	b	812	CLA	4	0
18	9	302	A1L1F	2	0
22	b	830	CLA	5	0
26	i	101	BCR	2	0
22	b	809	CLA	3	0
26	a	849	BCR	3	0
26	a	850	BCR	2	0
26	f	804	BCR	6	0
22	b	817	CLA	8	0
22	a	829	CLA	6	0
26	b	849	BCR	6	0
22	b	810	CLA	1	0
22	a	832	CLA	2	0
19	9	303	XAT	8	0
22	b	804	CLA	4	0
22	8	312	CLA	3	0
22	b	839	CLA	5	0
22	a	825	CLA	4	0
22	b	805	CLA	4	0
22	b	814	CLA	3	0
22	8	307	CLA	6	0
22	a	834	CLA	5	0
22	h	203	CLA	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	a	846	LHG	3	0
28	a	853	LMG	10	0
19	a	852	XAT	6	0
22	8	314	CLA	1	0
26	j	104	BCR	9	0
22	7	310	CLA	1	0
22	a	823	CLA	3	0
22	a	841	CLA	7	0
22	7	306	CLA	2	0
22	a	839	CLA	6	0
19	8	303	XAT	7	0
22	b	818	CLA	3	0
26	h	201	BCR	1	0
22	a	822	CLA	5	0
22	a	838	CLA	1	0
22	a	816	CLA	2	0
22	a	827	CLA	3	0
22	1	306	CLA	5	0
22	a	801	CLA	7	0
22	7	307	CLA	2	0
22	8	305	CLA	5	0
22	a	807	CLA	4	0
22	a	814	CLA	3	0
22	9	311	CLA	2	0
22	a	819	CLA	5	0
22	a	831	CLA	4	0
22	9	314	CLA	7	0
22	7	316	CLA	2	0
22	b	831	CLA	2	0
22	a	803	CLA	5	0
22	j	102	CLA	7	0
26	l	205	BCR	9	0
22	a	820	CLA	6	0
22	b	803	CLA	3	0
22	a	805	CLA	1	0
22	1	308	CLA	3	0
22	b	813	CLA	7	0
19	8	302	XAT	8	0
22	a	809	CLA	3	0
27	c	102	SF4	2	0
18	h	204	A1L1F	4	0
19	j	101	XAT	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	a	830	CLA	7	0
22	b	825	CLA	2	0
22	a	810	CLA	4	0
26	b	843	BCR	2	0
22	b	835	CLA	4	0
22	b	808	CLA	2	0
22	7	314	CLA	3	0
22	a	802	CLA	5	0
17	1	301	A1L1G	1	0
22	b	824	CLA	8	0
22	b	816	CLA	6	0
22	b	838	CLA	4	0
26	l	201	BCR	3	0
22	8	311	CLA	3	0
22	b	801	CLA	5	0
22	9	312	CLA	3	0
19	8	301	XAT	2	0
22	b	829	CLA	4	0
17	9	301	A1L1G	2	0
26	b	844	BCR	5	0
22	a	844	CLA	6	0
21	9	317	LHG	3	0
22	8	309	CLA	1	0
22	b	822	CLA	6	0
22	9	309	CLA	1	0
19	7	305	XAT	2	0
22	7	312	CLA	1	0
28	j	105	LMG	7	0
22	9	308	CLA	6	0
22	a	836	CLA	1	0
22	a	818	CLA	11	0
26	b	842	BCR	4	0
22	b	836	CLA	5	0
22	a	840	CLA	6	0
22	b	807	CLA	7	0
22	b	802	CLA	4	0
19	7	303	XAT	11	0
22	b	840	CLA	6	0
22	b	811	CLA	3	0
19	1	303	XAT	3	0
22	b	828	CLA	3	0
22	8	313	CLA	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	b	820	CLA	2	0
24	1	315	SQD	3	0
22	h	205	CLA	2	0
26	a	848	BCR	5	0
22	7	308	CLA	7	0
22	a	824	CLA	1	0
22	l	202	CLA	1	0
22	a	842	CLA	3	0
22	7	311	CLA	3	0
22	9	316	CLA	6	0
22	b	827	CLA	3	0
22	1	311	CLA	2	0
22	b	832	CLA	3	0
22	9	313	CLA	2	0
26	f	801	BCR	9	0
21	a	845	LHG	4	0
17	7	302	A1L1G	2	0
22	a	854	CLA	3	0
22	b	823	CLA	6	0
21	9	307	LHG	2	0
22	9	315	CLA	1	0
22	9	310	CLA	2	0
19	1	302	XAT	3	0
18	1	304	A1L1F	2	0
22	f	802	CLA	1	0
22	a	826	CLA	6	0
23	b	848	DGD	6	0
22	b	826	CLA	3	0
22	8	306	CLA	1	0
22	1	312	CLA	2	0
22	b	806	CLA	2	0
22	a	808	CLA	1	0
22	a	837	CLA	1	0
22	7	313	CLA	4	0
22	b	819	CLA	1	0
19	7	304	XAT	12	0
22	b	837	CLA	6	0
22	7	315	CLA	2	0
22	a	835	CLA	5	0
22	b	821	CLA	2	0
23	8	315	DGD	2	0
22	9	318	CLA	6	0

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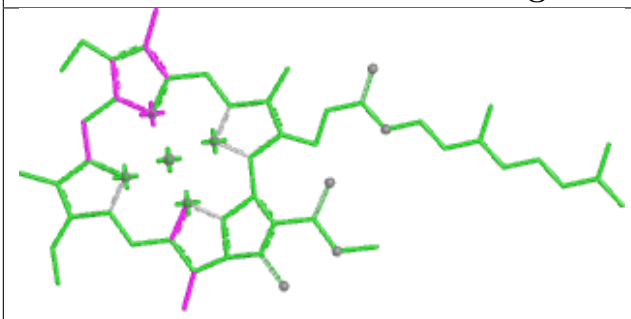
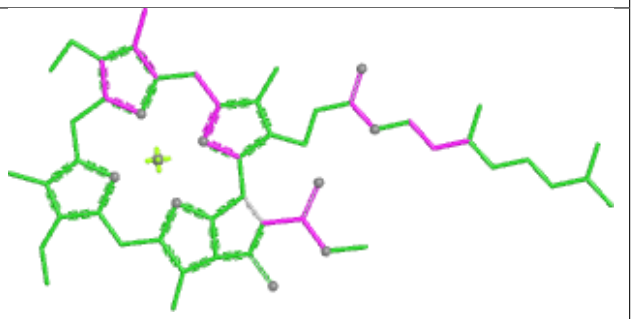
Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	a	843	PQN	3	0
25	b	841	PQN	2	0
22	l	203	CLA	2	0
18	8	304	A1L1F	2	0
19	7	301	XAT	3	0
26	a	847	BCR	4	0
26	b	846	BCR	3	0
22	a	833	CLA	2	0
26	h	202	BCR	4	0
22	a	806	CLA	9	0
22	1	310	CLA	2	0
26	m	101	BCR	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

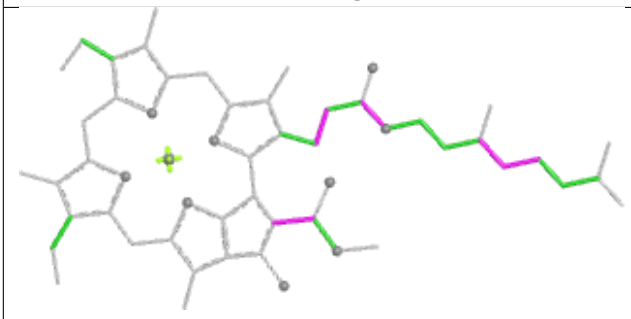
Ligand CLA 8 308



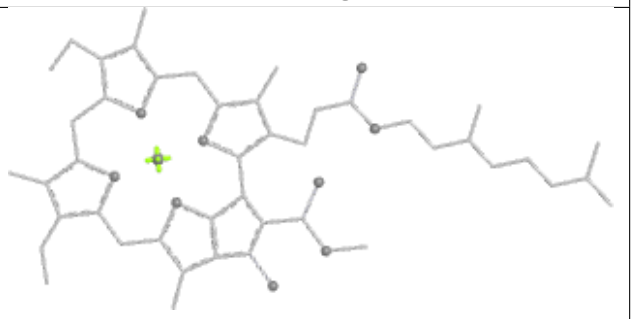
Bond lengths



Bond angles

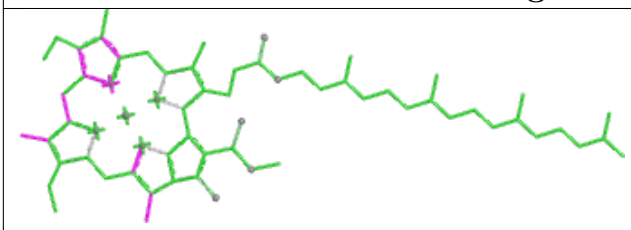


Torsions

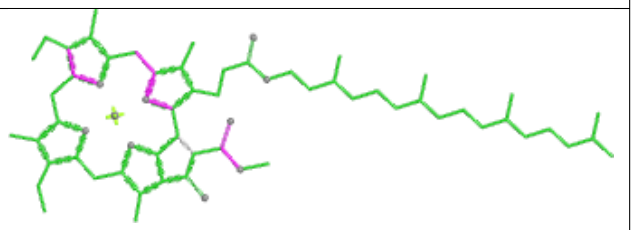


Rings

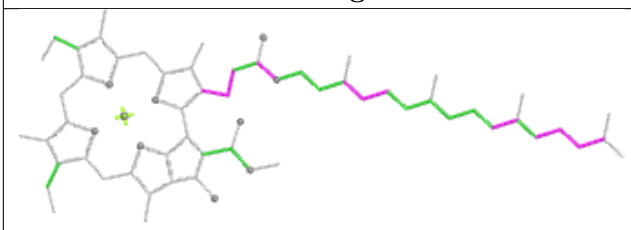
Ligand CLA b 833



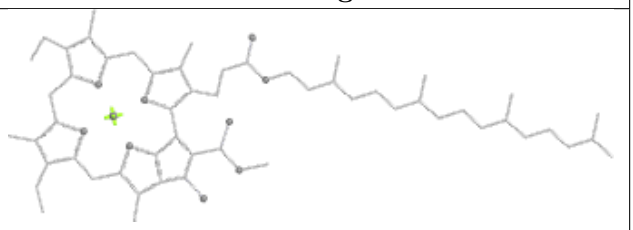
Bond lengths



Bond angles

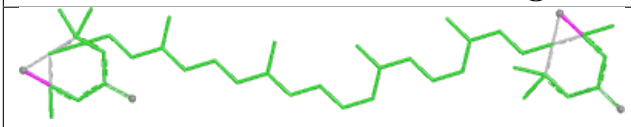


Torsions

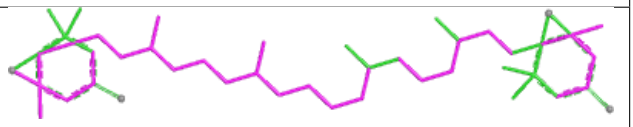


Rings

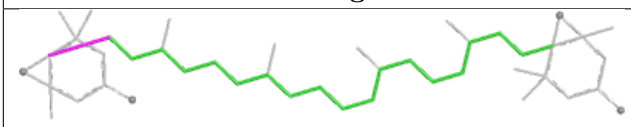
Ligand XAT 9 304



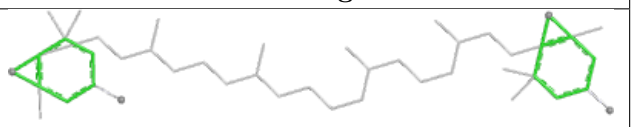
Bond lengths



Bond angles

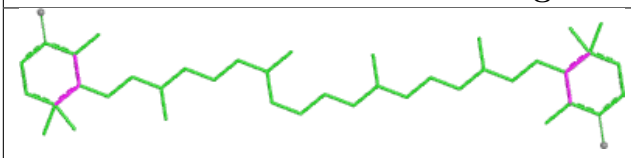


Torsions

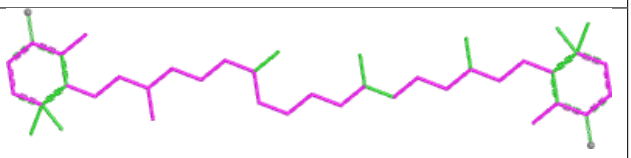


Rings

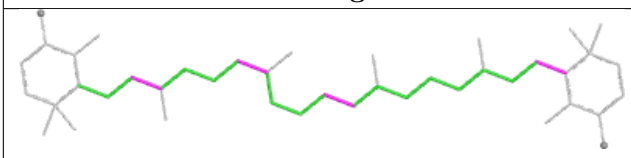
Ligand 45D 9 305



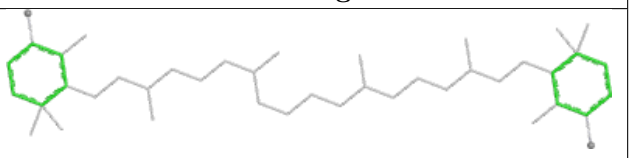
Bond lengths



Bond angles

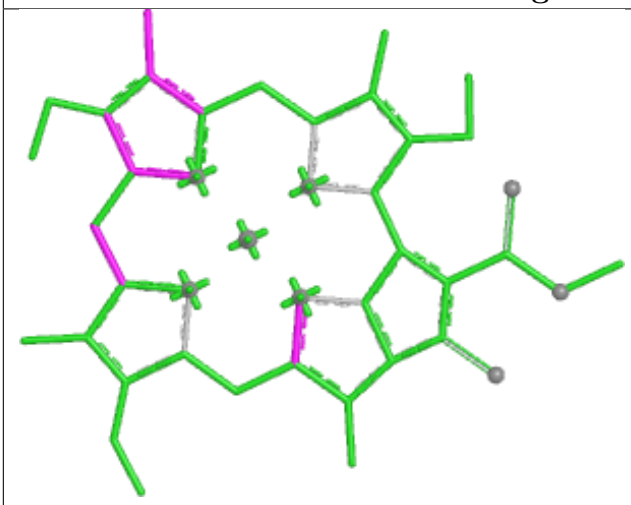


Torsions

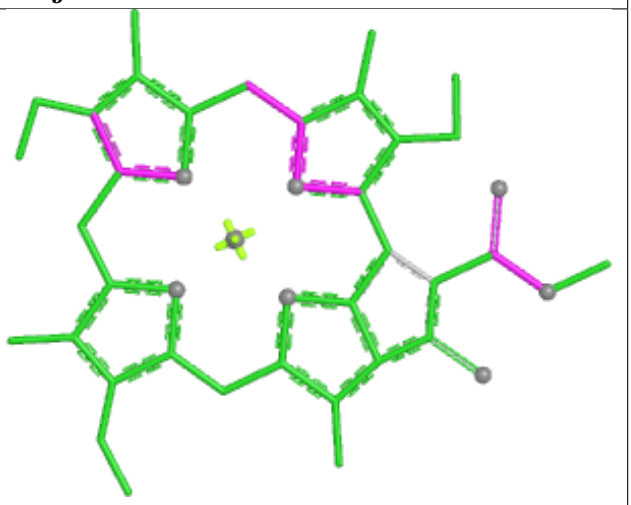


Rings

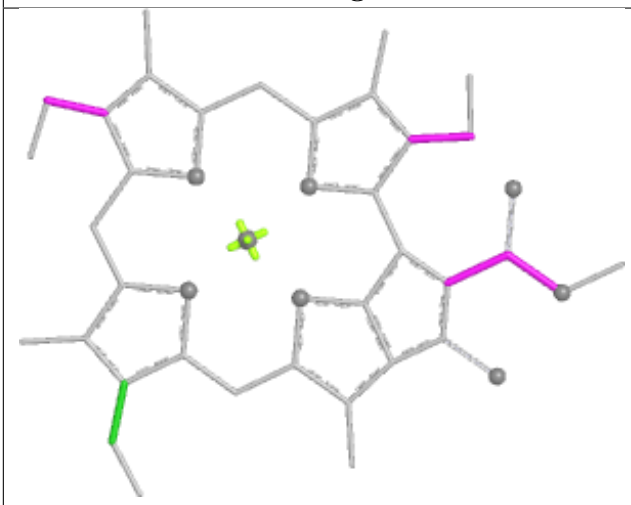
Ligand CLA j 103



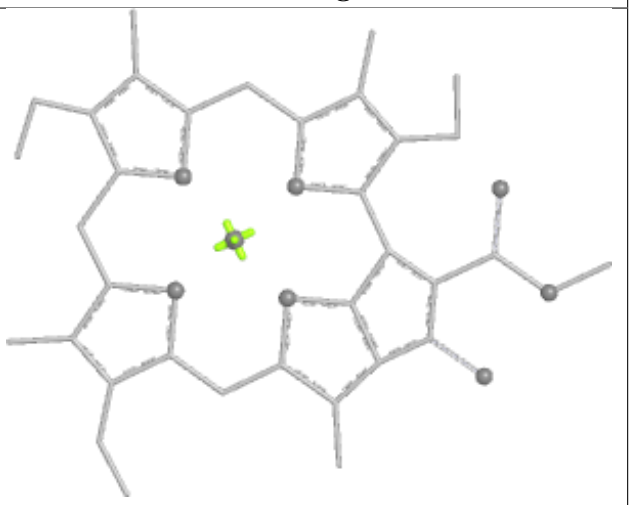
Bond lengths



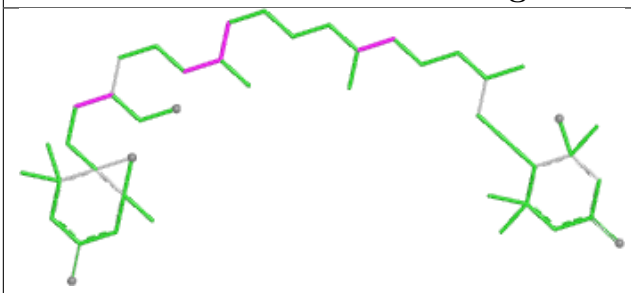
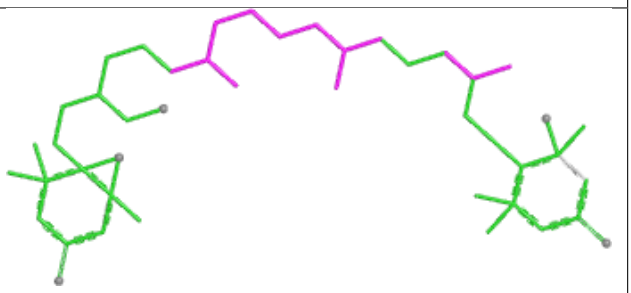
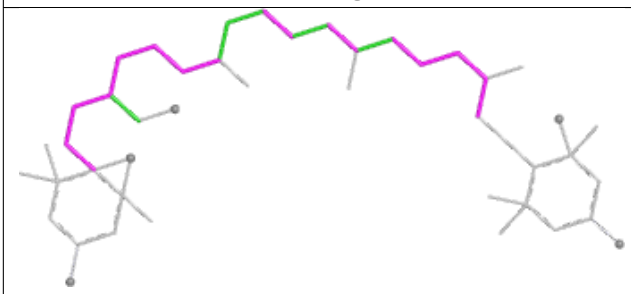
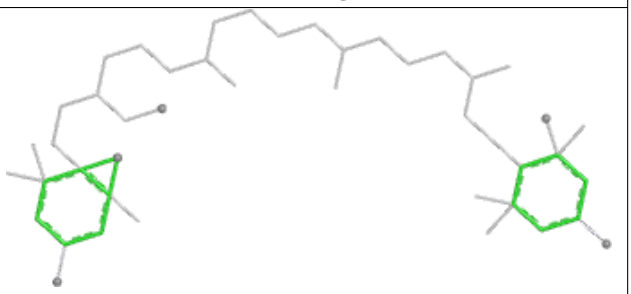
Bond angles

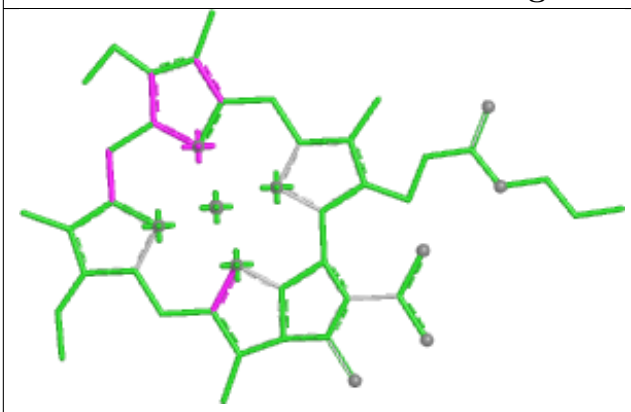
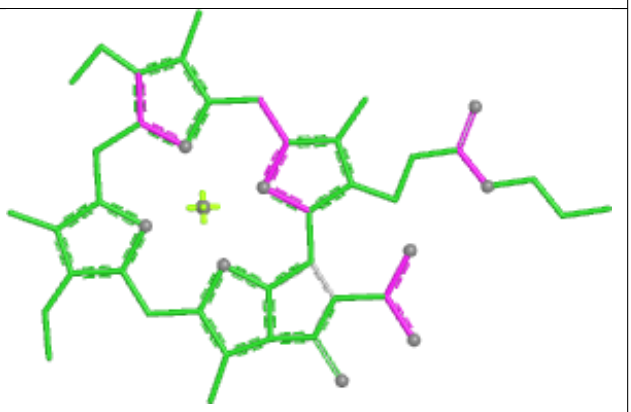
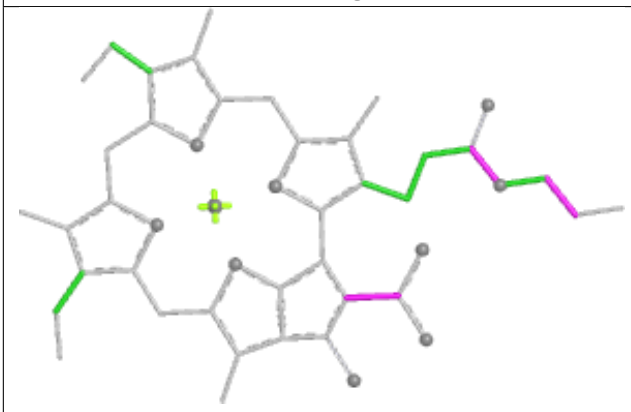
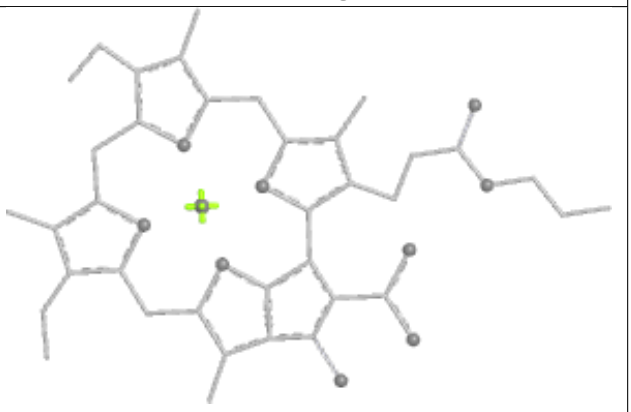


Torsions

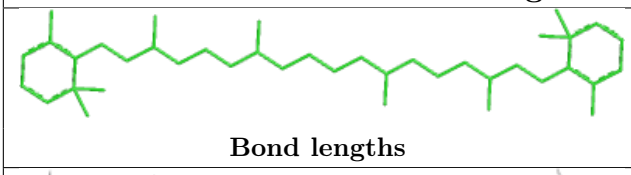


Rings

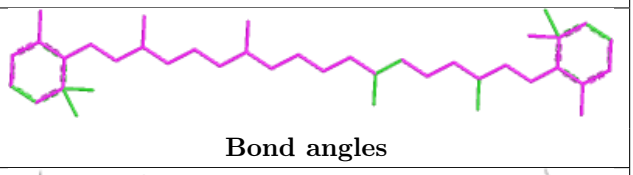
Ligand A1L1G 9 306	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 7 309	
 Bond lengths	 Bond angles
 Torsions	 Rings

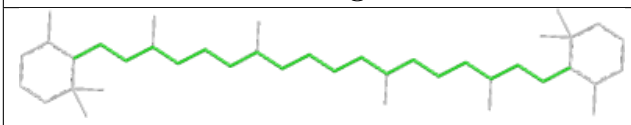
Ligand BCR b 845



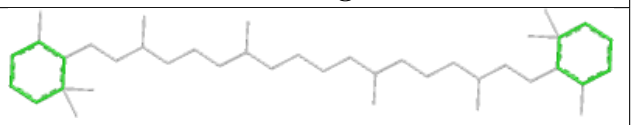
Bond lengths



Bond angles

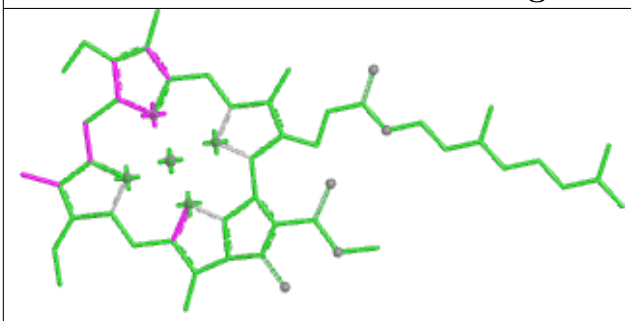


Torsions

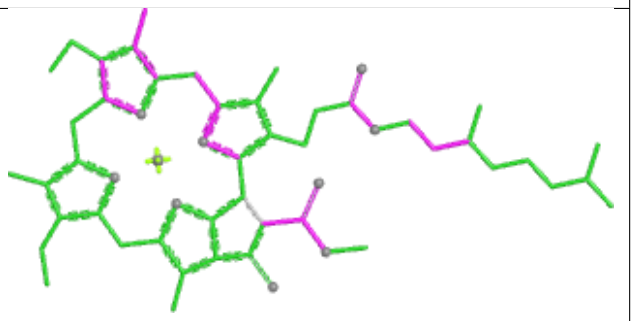


Rings

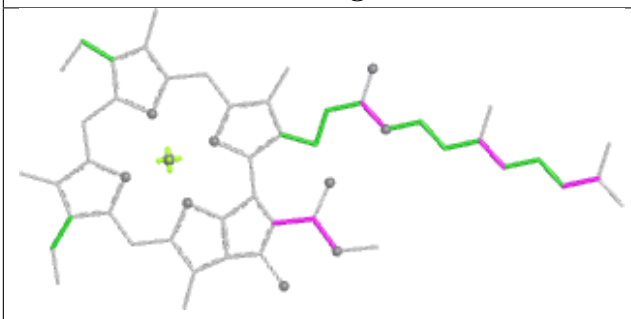
Ligand CLA a 804



Bond lengths



Bond angles



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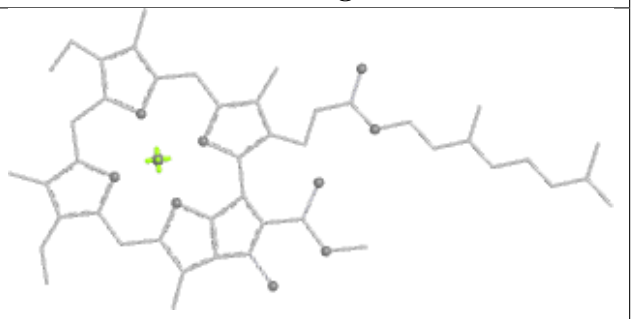
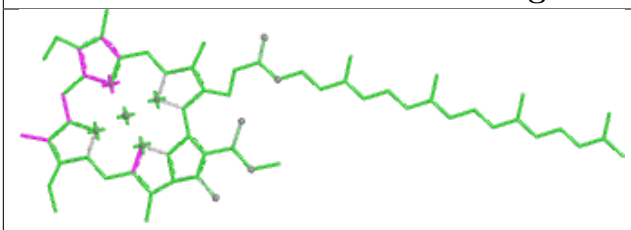
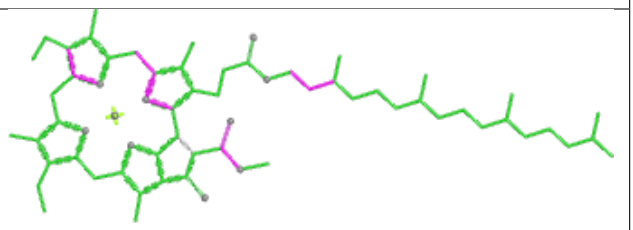


Rings

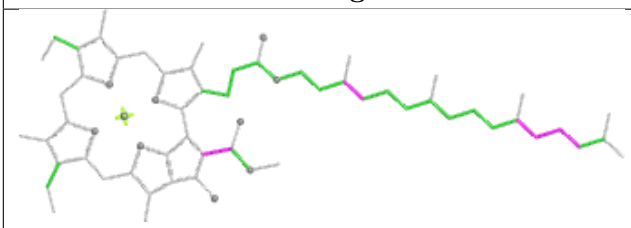
Ligand CLA a 828



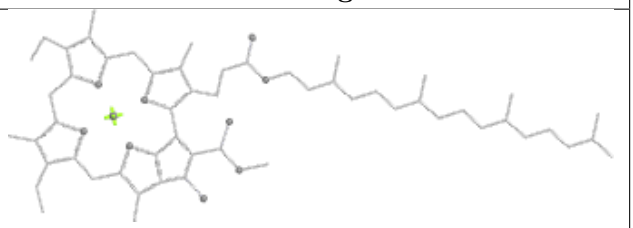
Bond lengths



Bond angles

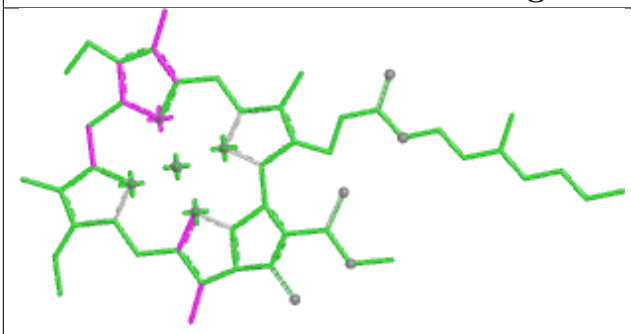


Torsions

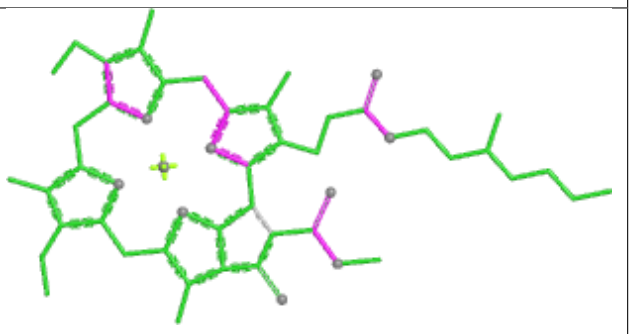


Rings

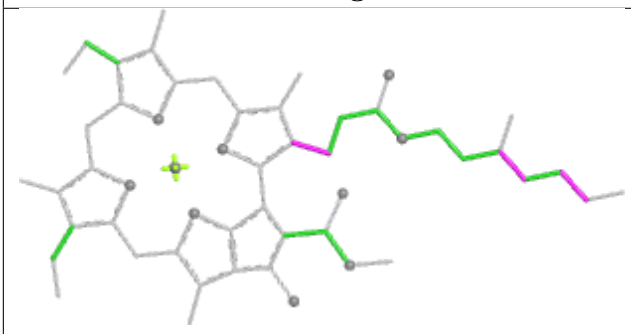
Ligand CLA b 812



Bond lengths



Bond angles



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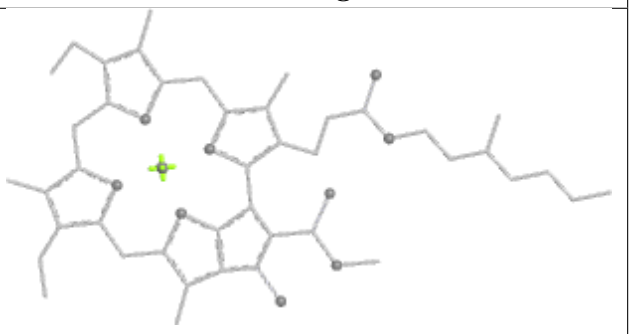
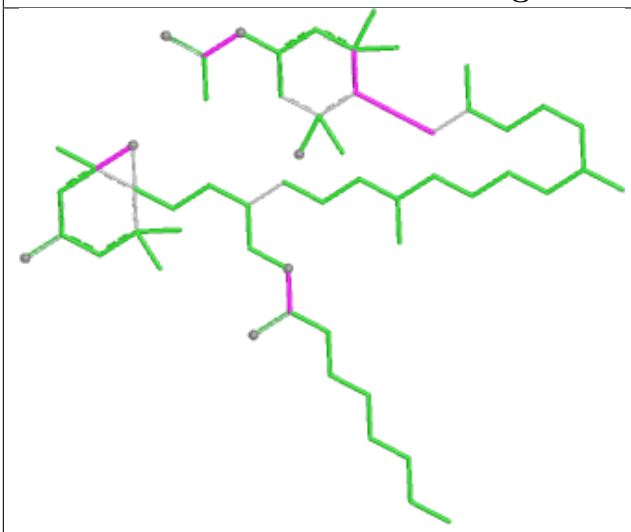
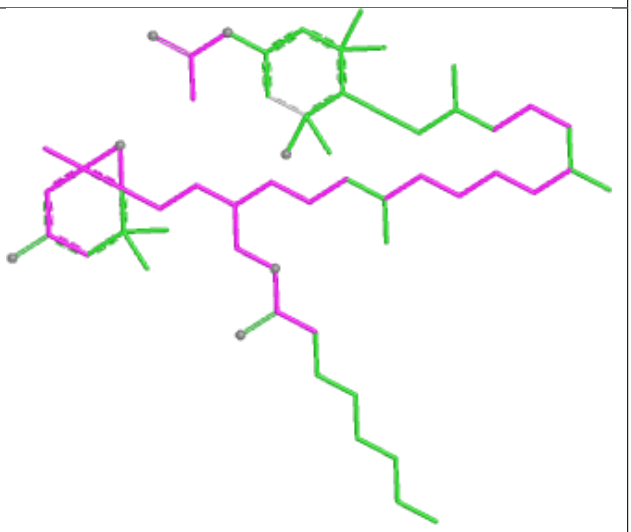


Rings

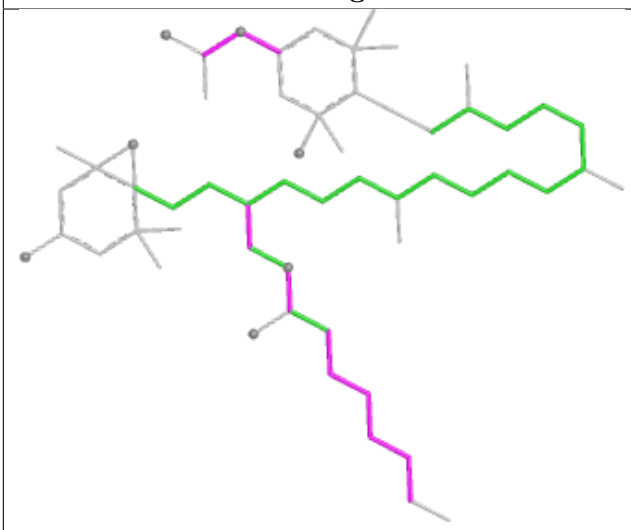
Ligand A1L1F 9 302



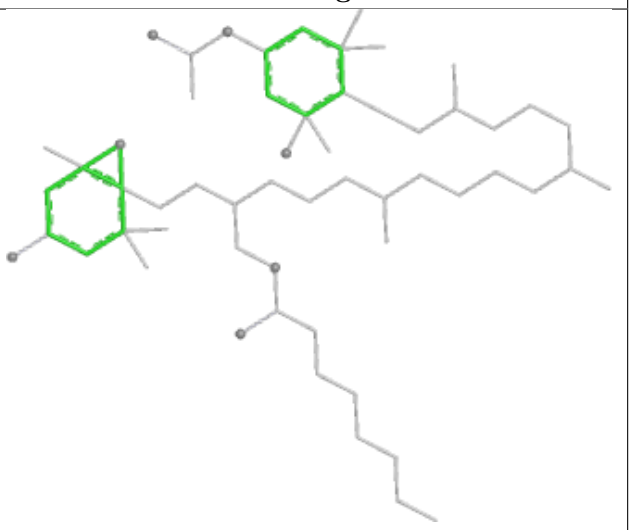
Bond lengths



Bond angles

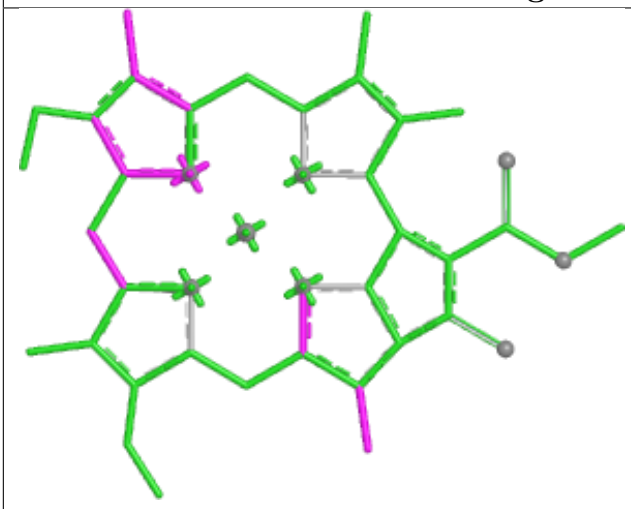


Torsions

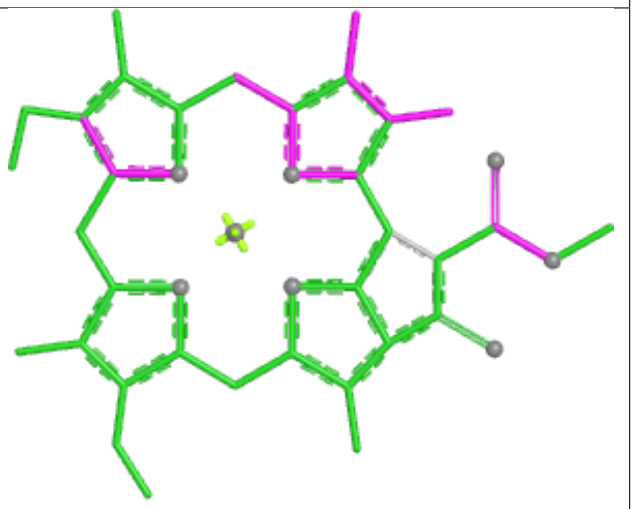


Rings

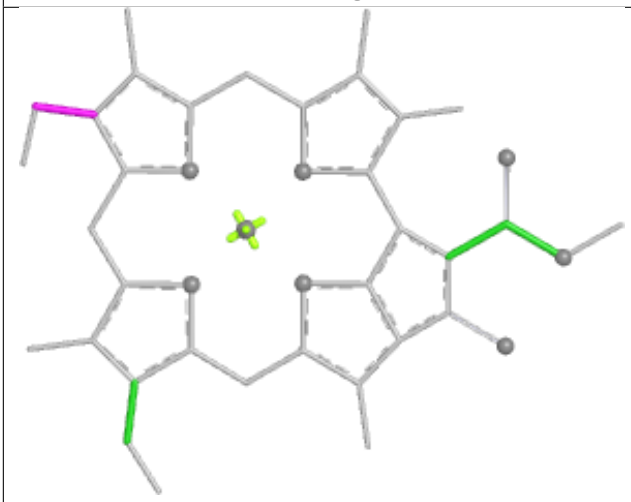
Ligand CLA b 830



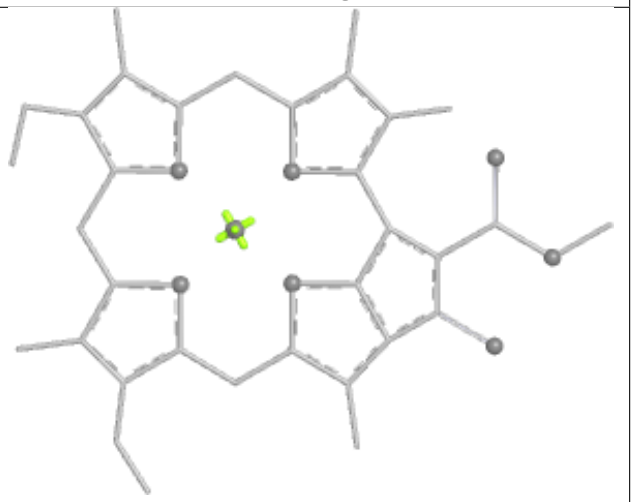
Bond lengths



Bond angles



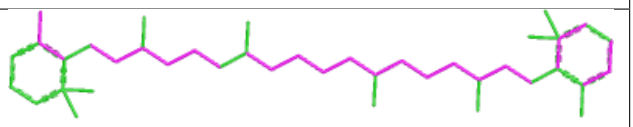
Torsions



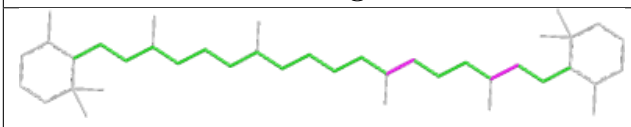
Rings

Ligand BCR i 101

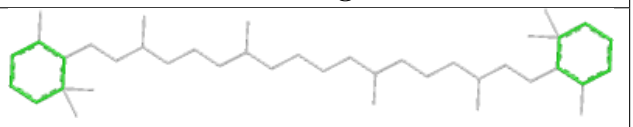
Bond lengths



Bond angles

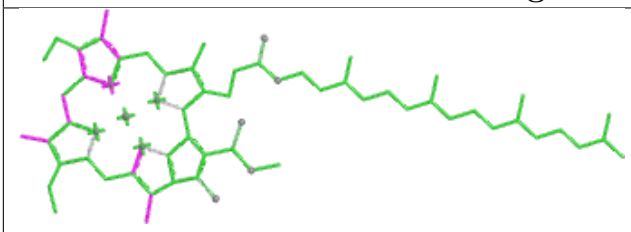


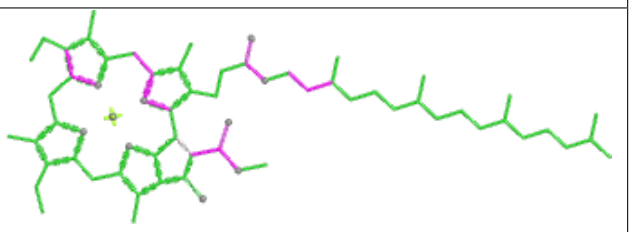
Torsions

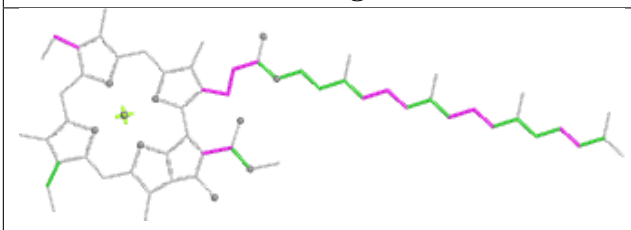


Rings

Ligand CLA b 809


Bond lengths


Bond angles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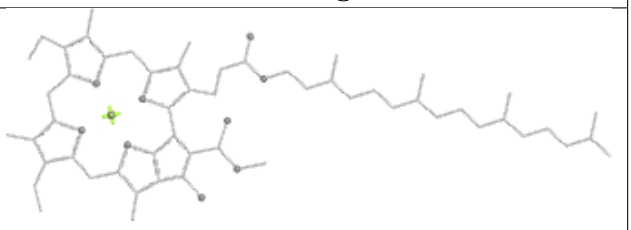
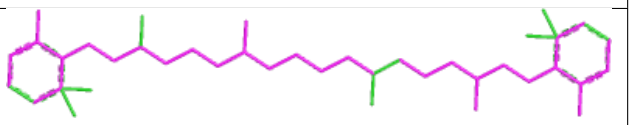

Rings

Ligand BCR a 849


Bond lengths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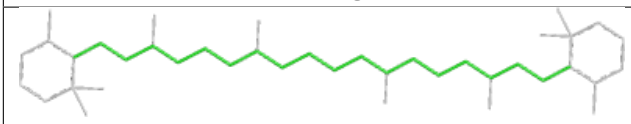
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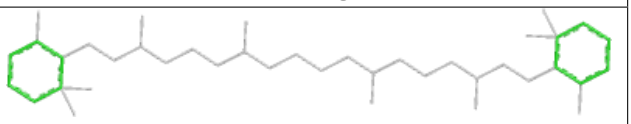
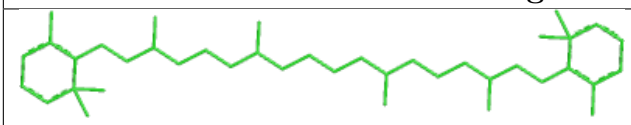

Rings

Ligand BCR a 850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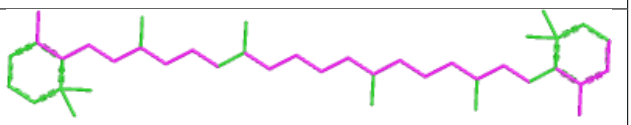
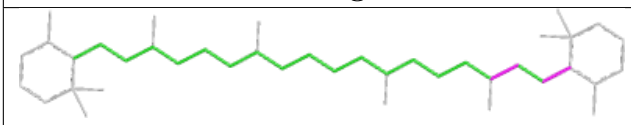

Bond angles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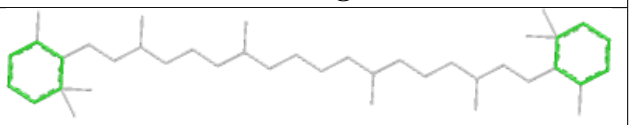
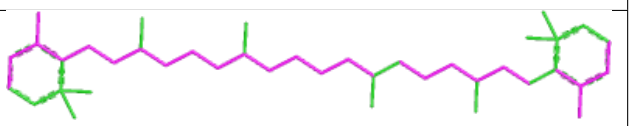
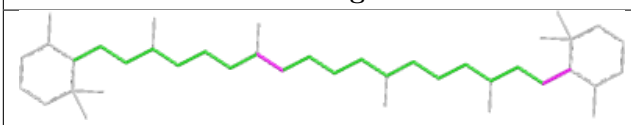

Rings

Ligand BCR f 804


Bond lengths


Bond angles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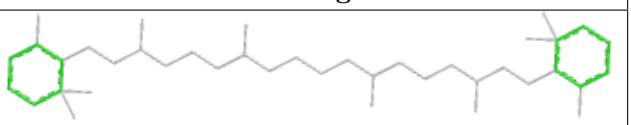
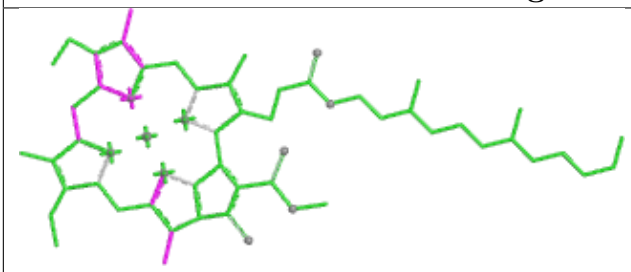

Rings

Ligand CLA b 817



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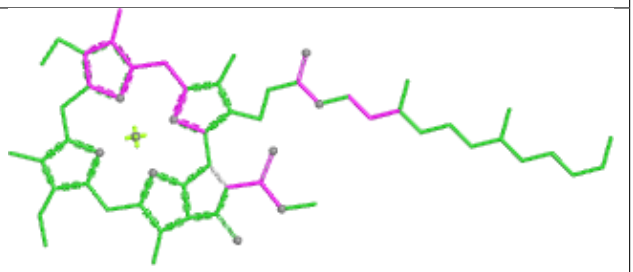
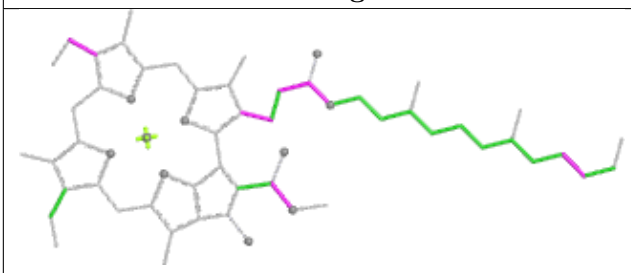


Bond angles



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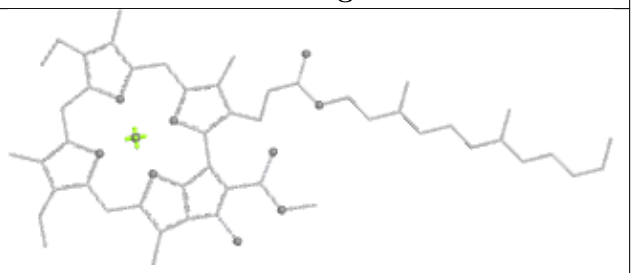
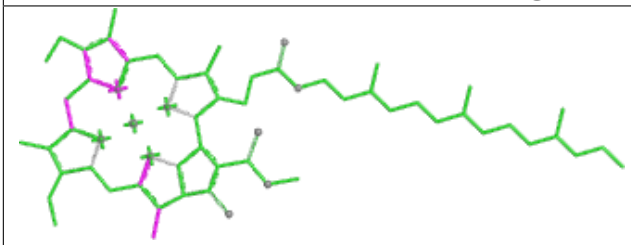
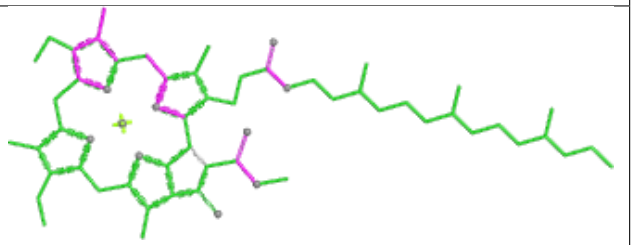


Rings

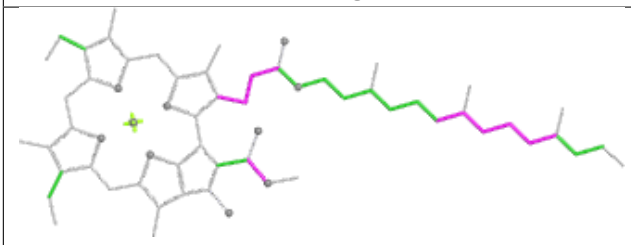
Ligand CLA a 829



Bond lengths



Bond angles



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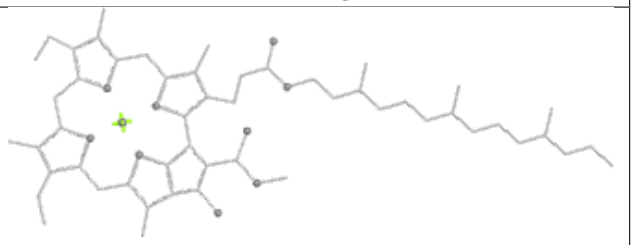
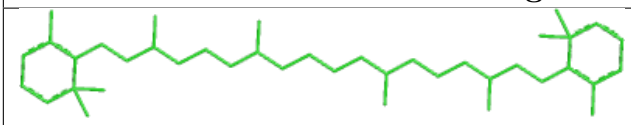


Rings

Ligand BCR b 849



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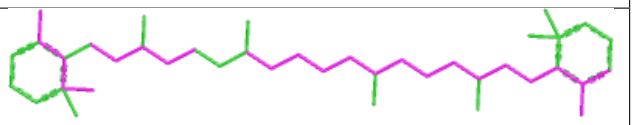
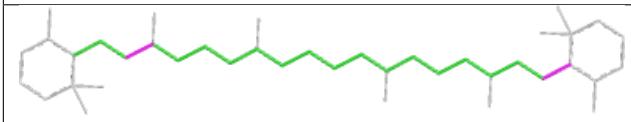


Bond angles



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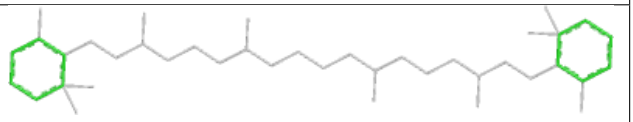
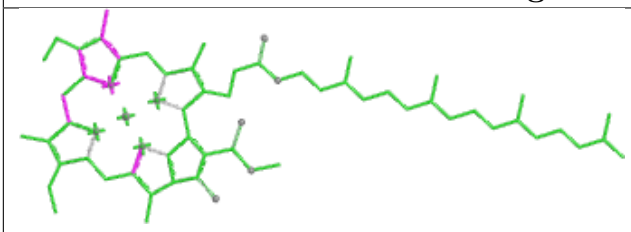
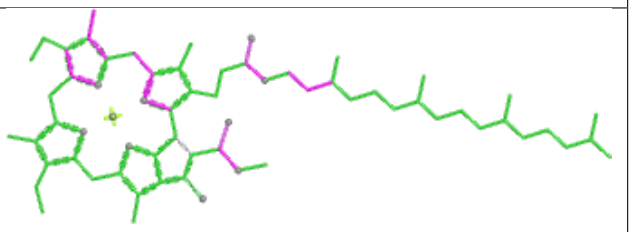


Rings

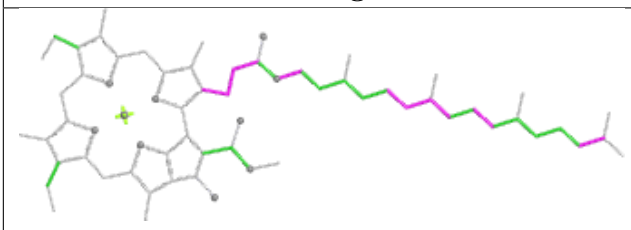
Ligand CLA b 810



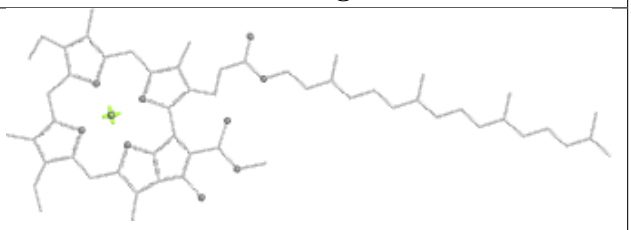
Bond lengths



Bond angles

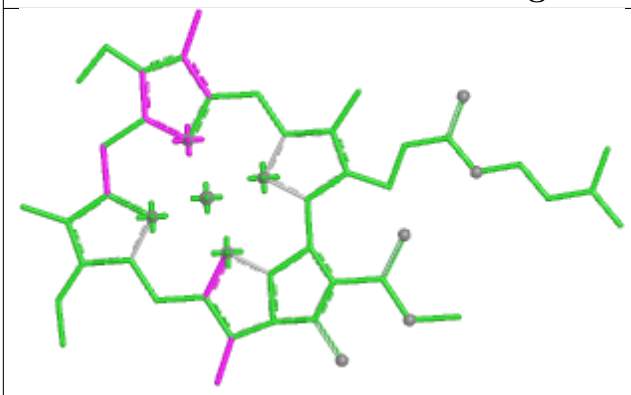


Torsions



Rings

Ligand CLA a 832



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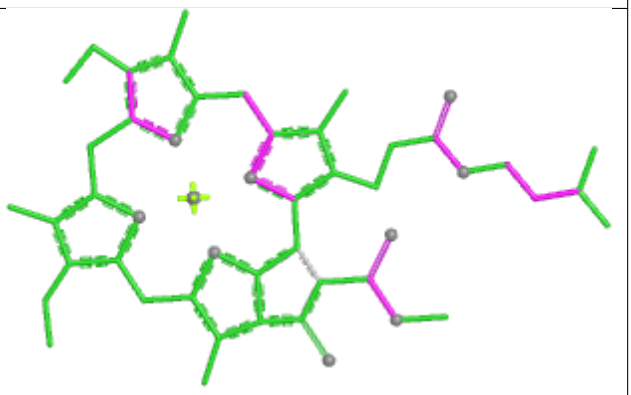
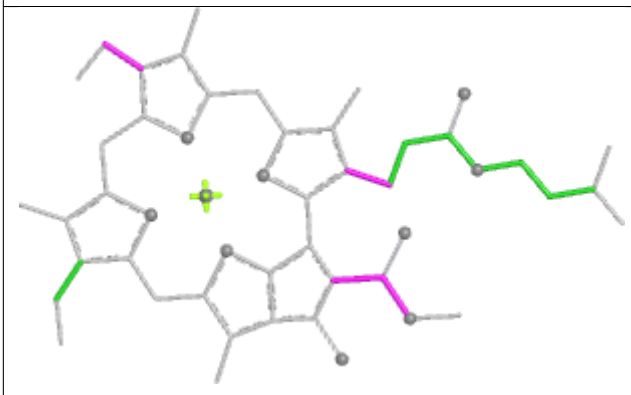


Bond angles



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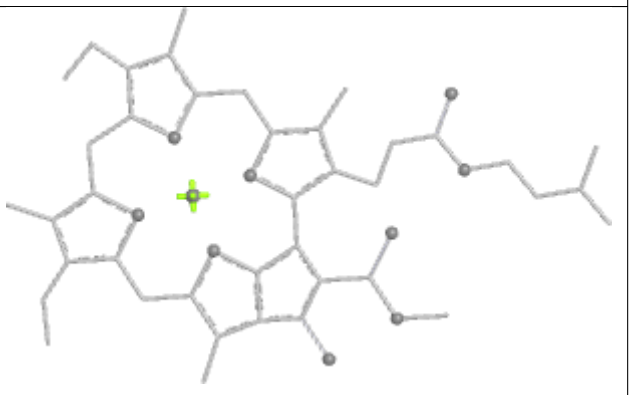
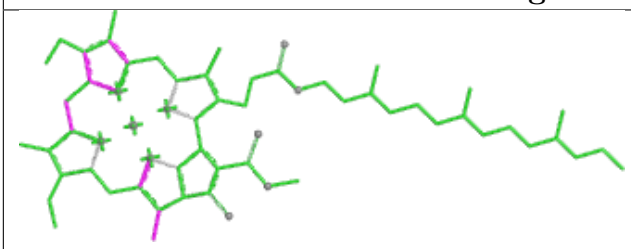


Rings

Ligand CLA a 812



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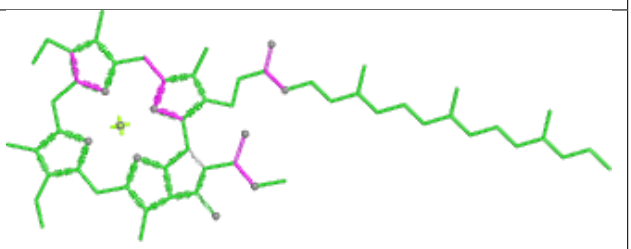
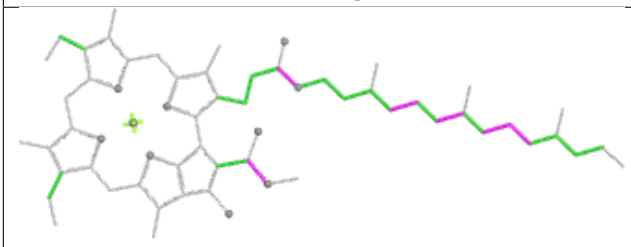


Bond angles



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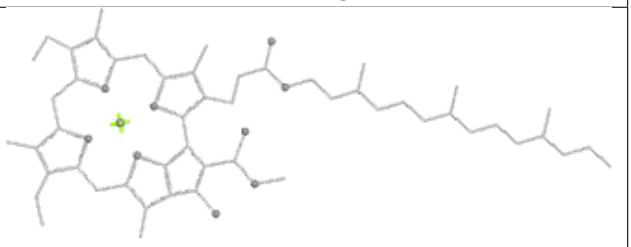
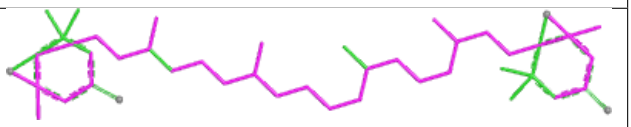


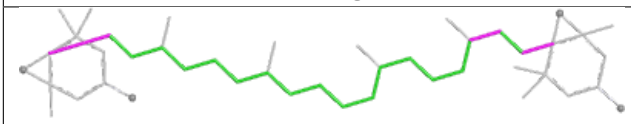
Rings

Ligand XAT 9 303

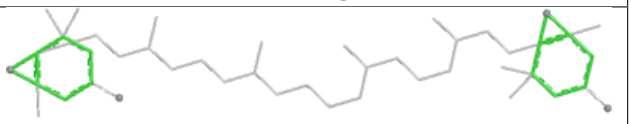
Bond lengths



Bond angles

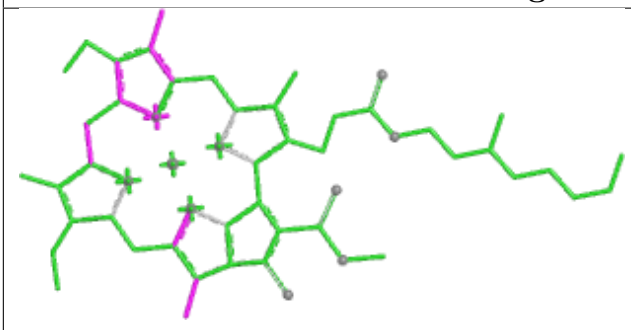


Torsions

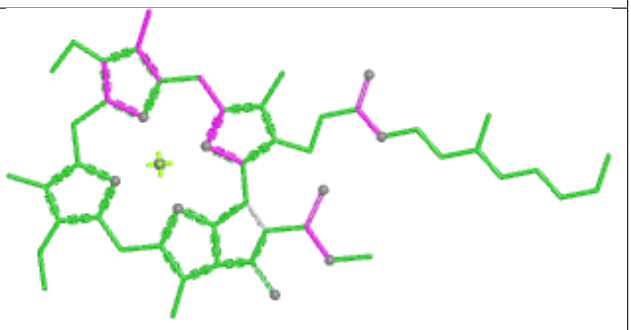


Rings

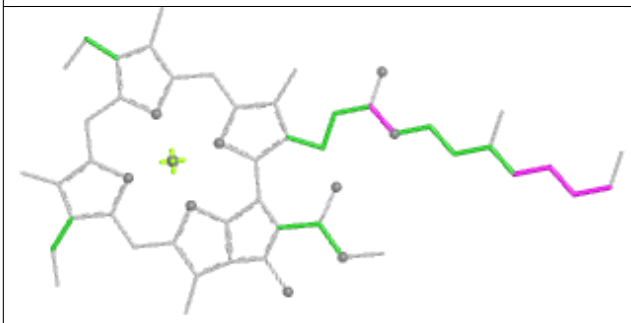
Ligand CLA 1 307



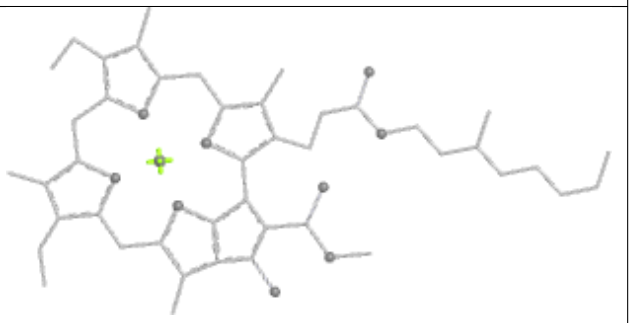
Bond lengths



Bond angles

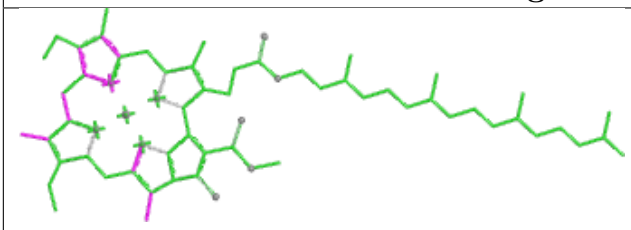


Torsions

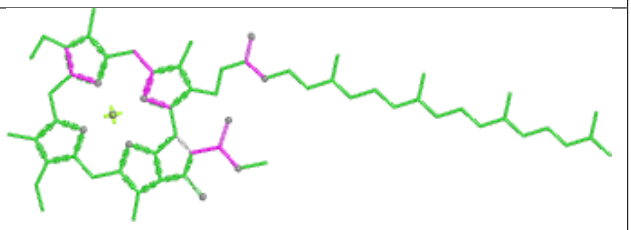


Rings

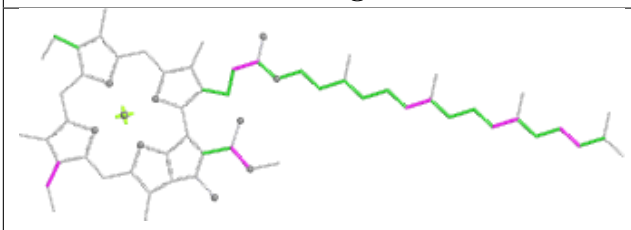
Ligand CLA b 804



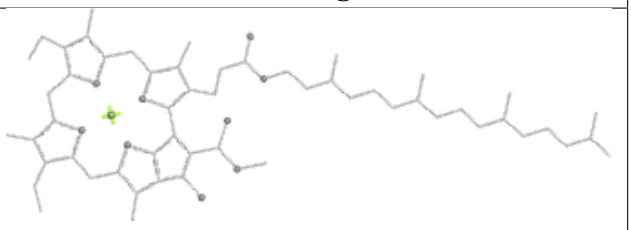
Bond lengths



Bond angles

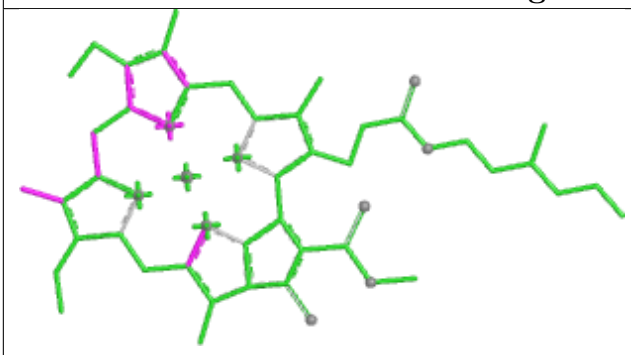


Torsions

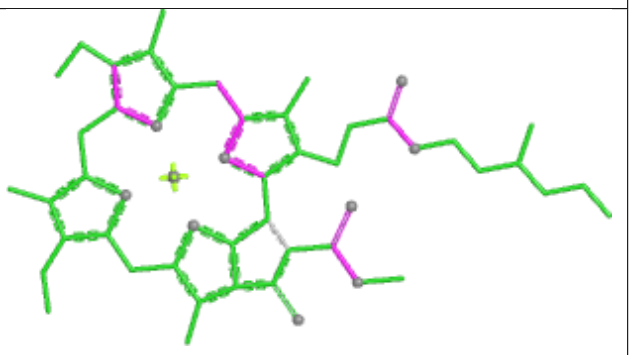


Rings

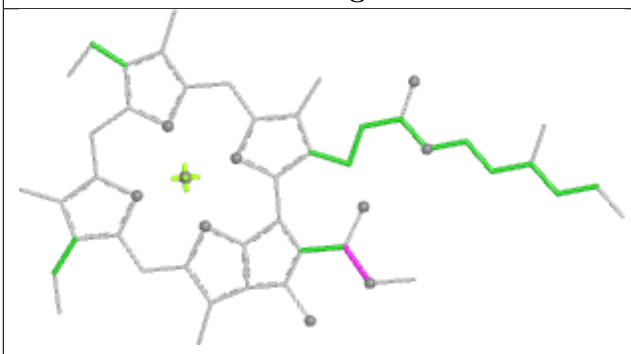
Ligand CLA 8 312



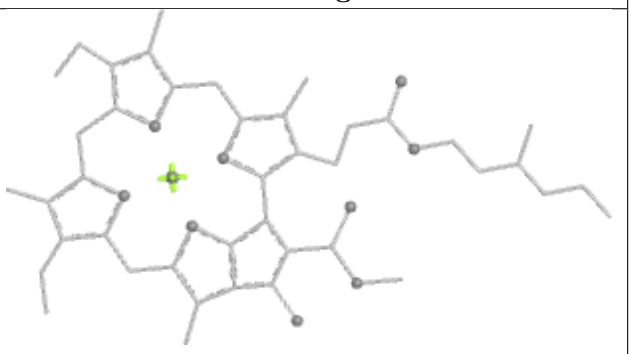
Bond lengths



Bond angles

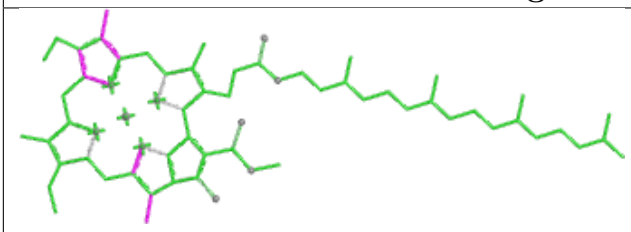


Torsions

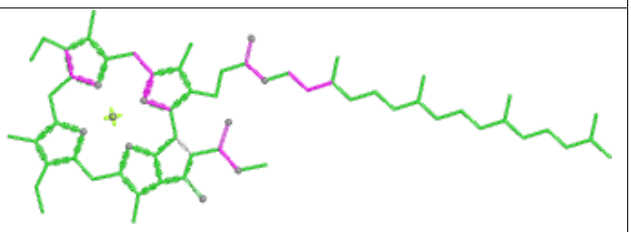


Rings

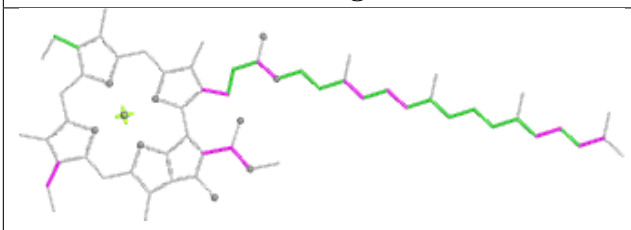
Ligand CLA b 839



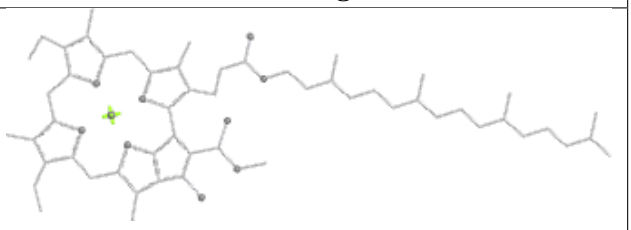
Bond lengths



Bond angles

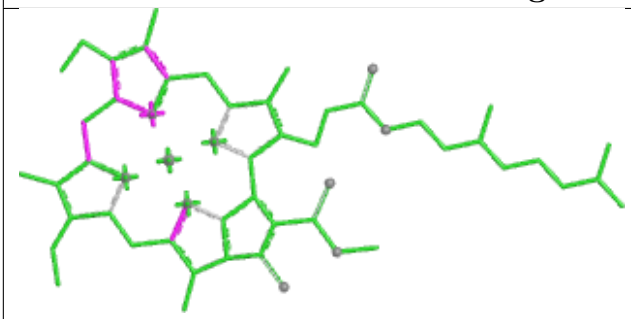


Torsions

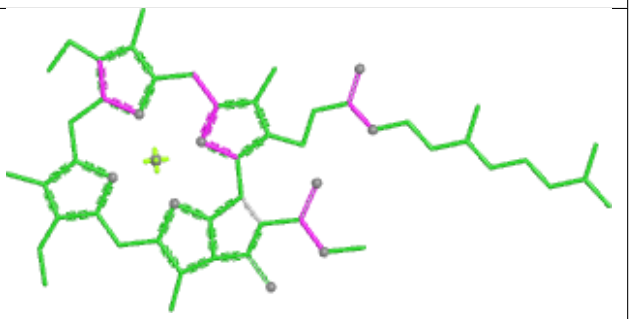


Rings

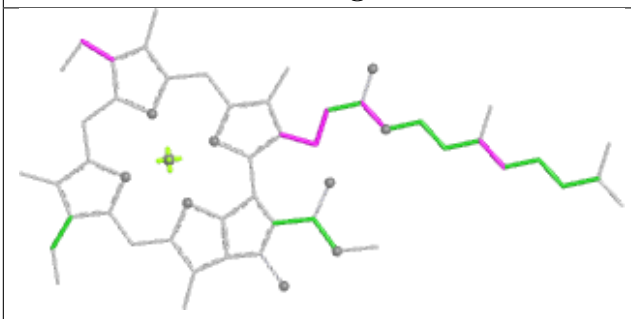
Ligand CLA a 825



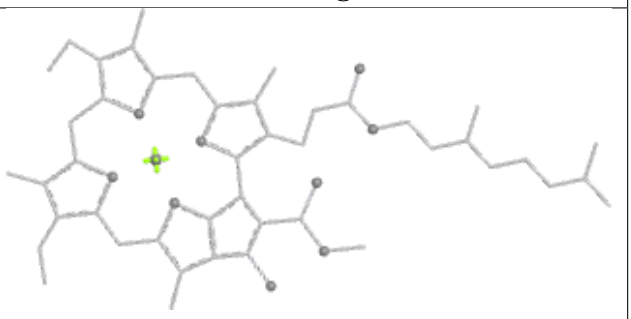
Bond lengths



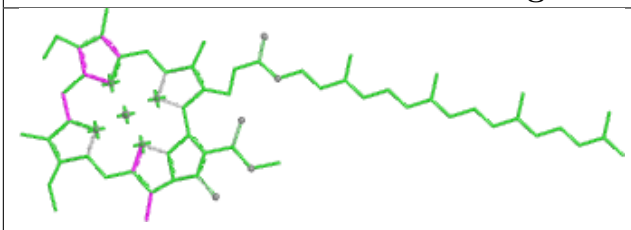
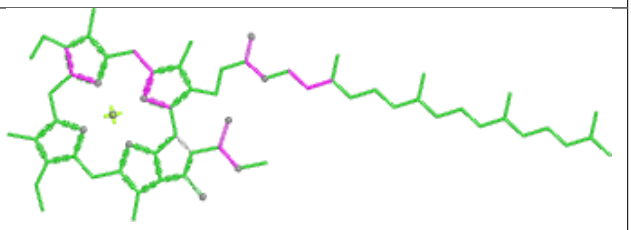
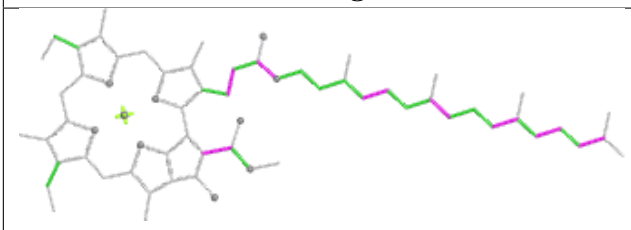
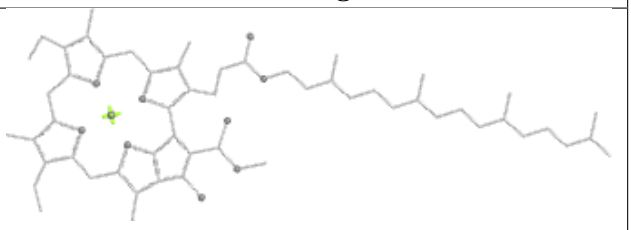
Bond angles

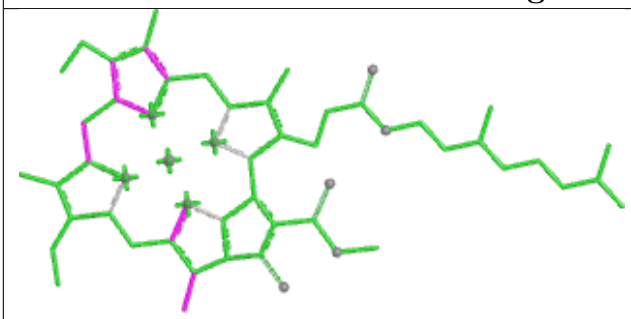
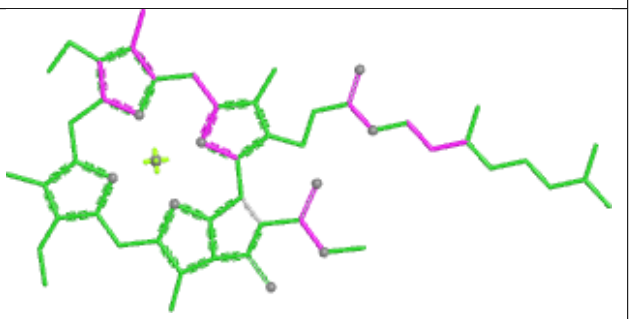
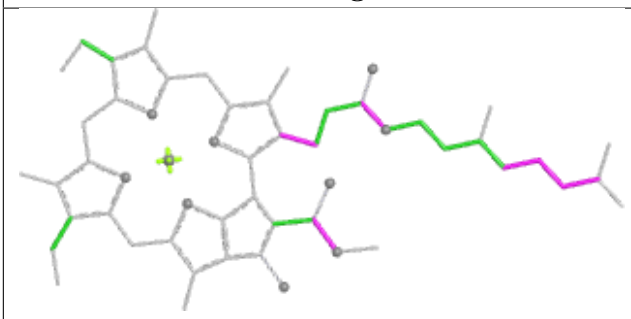
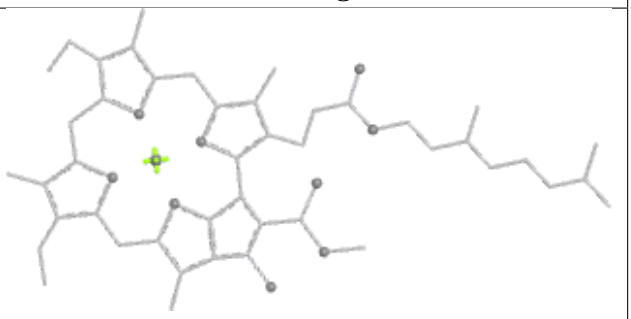


Torsions

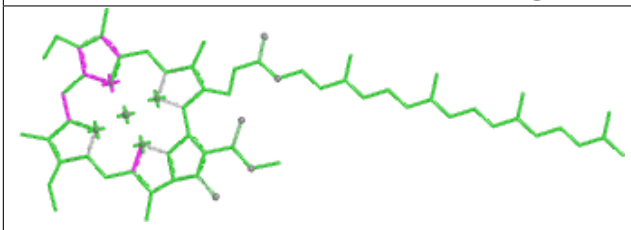


Rings

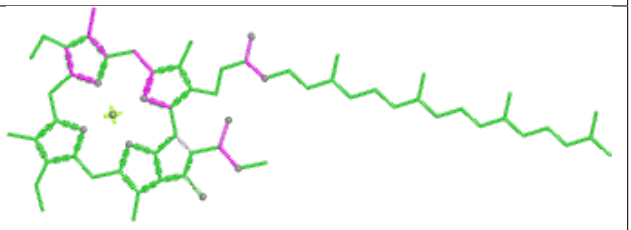
Ligand CLA b 805	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA b 814	
	
Bond lengths	Bond angles
	
Torsions	Rings

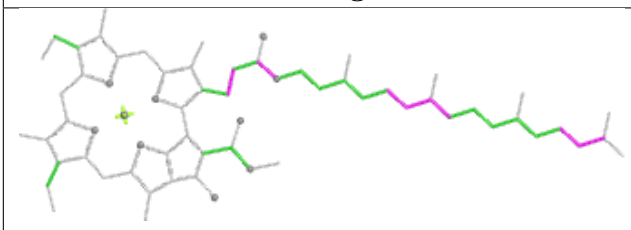
Ligand CLA 8 307



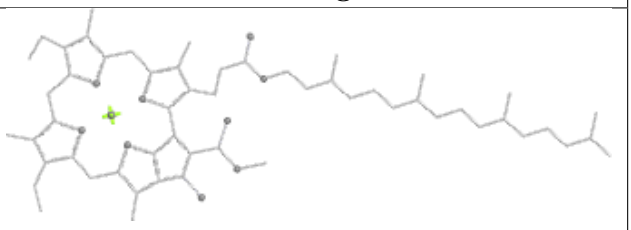
Bond lengths



Bond angles

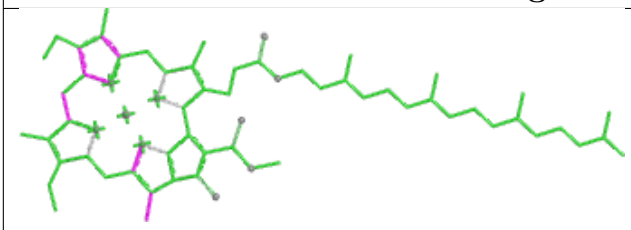


Torsions

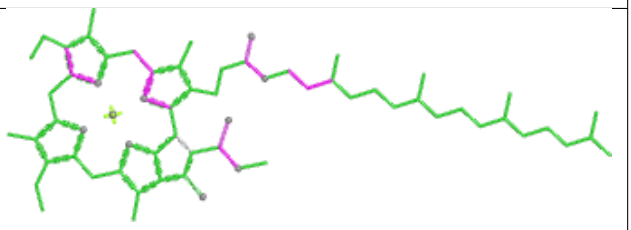


Rings

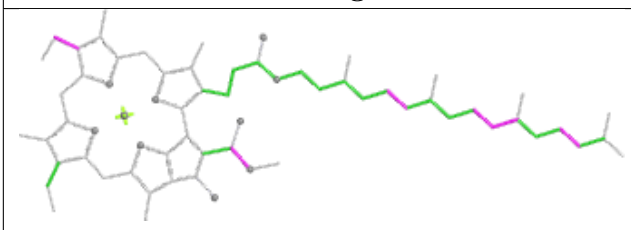
Ligand CLA a 834



Bond lengths



Bond angles



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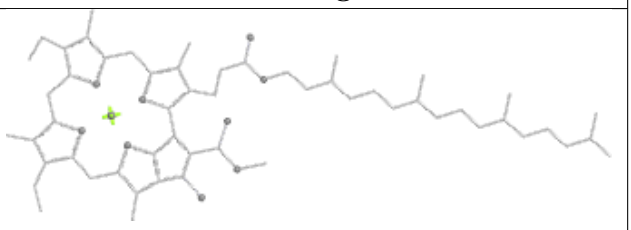
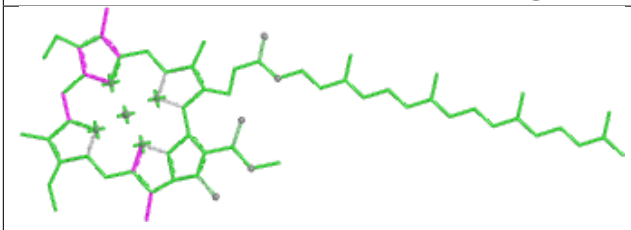
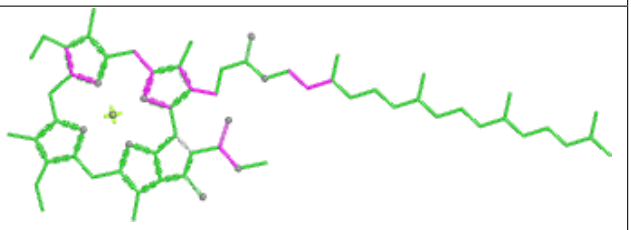


Rings

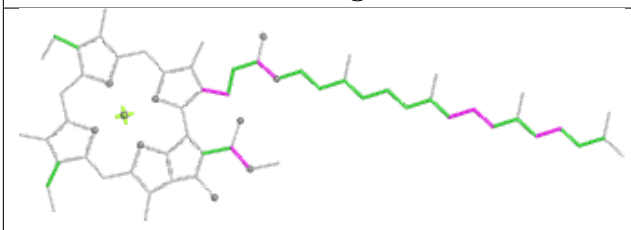
Ligand CLA h 203



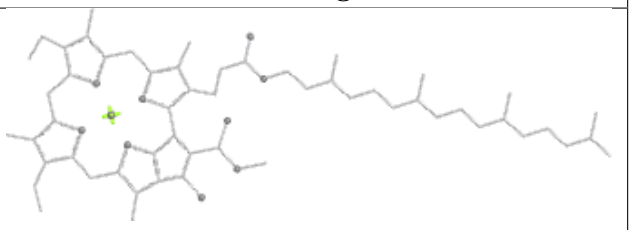
Bond lengths



Bond angles

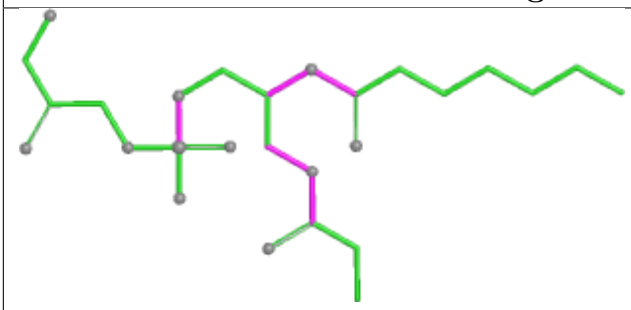


Torsions

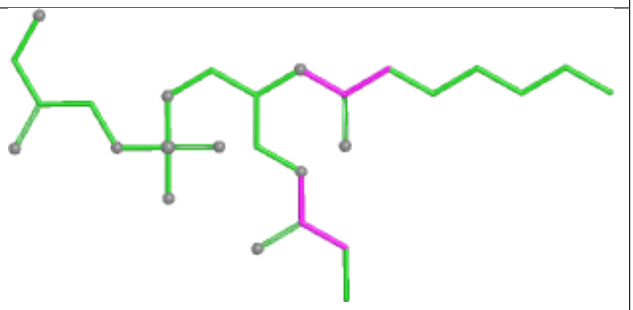


Rings

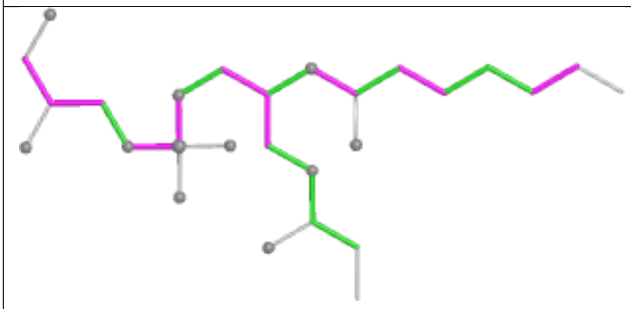
Ligand LHG a 846



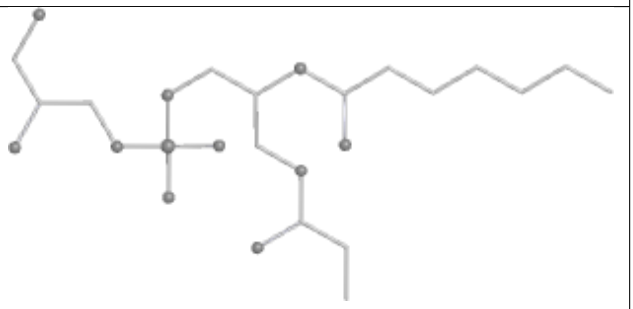
Bond lengths



Bond angles

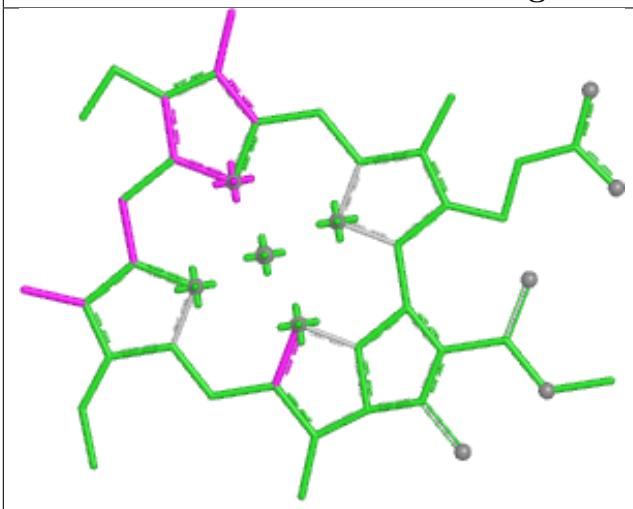


Torsions

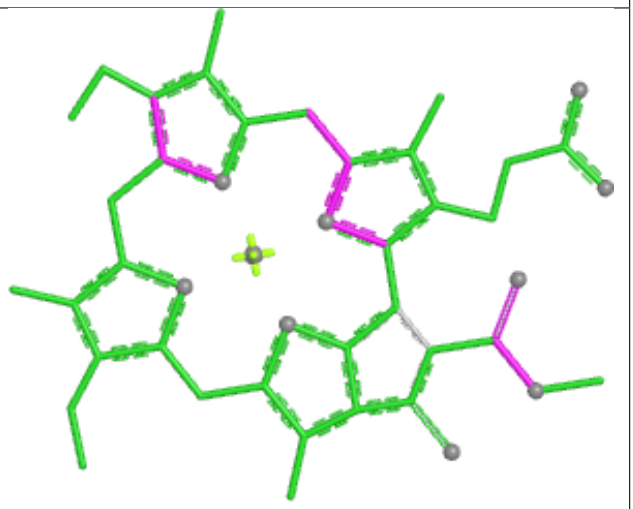


Rings

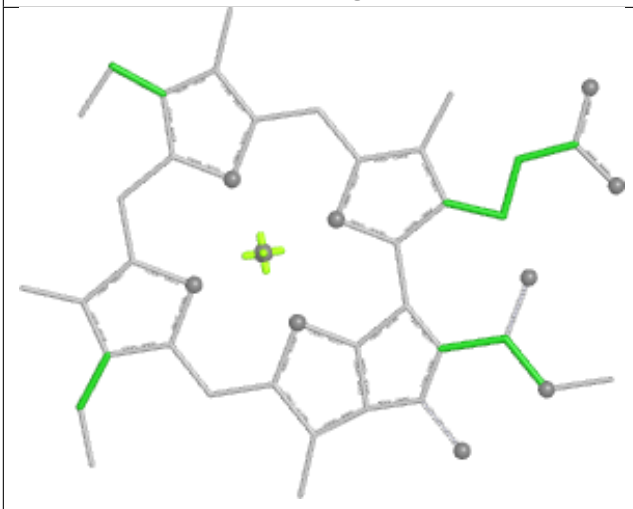
Ligand CLA a 815



Bond lengths



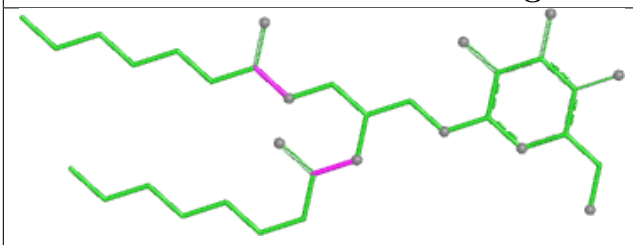
Bond angles



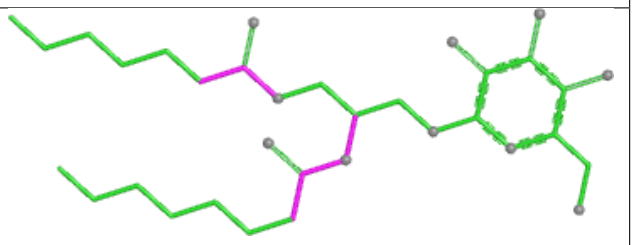
Torsions

Rings

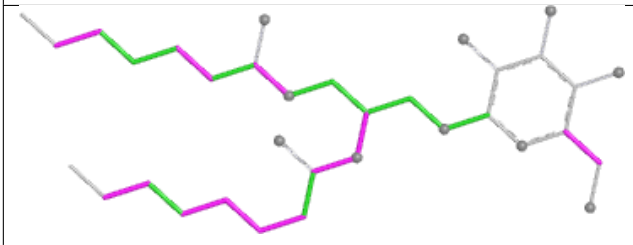
Ligand LMG a 853



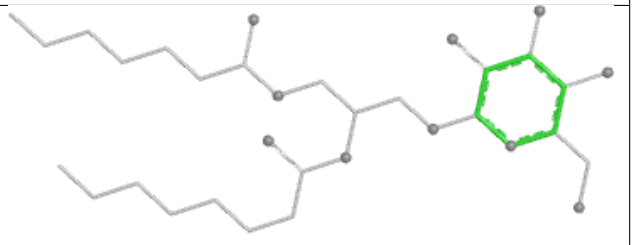
Bond lengths



Bond angles

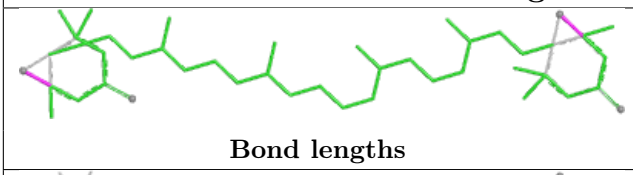


Torsions

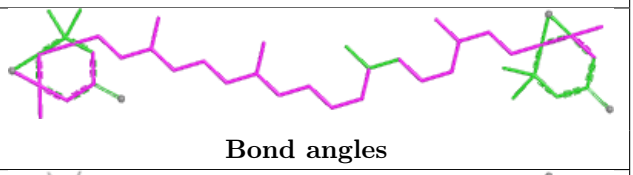


Rings

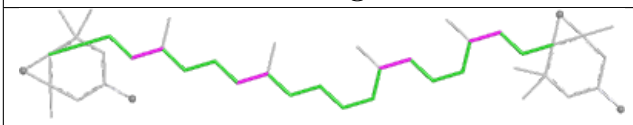
Ligand XAT a 852



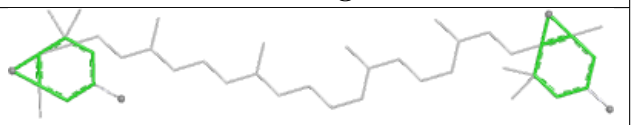
Bond lengths



Bond angles

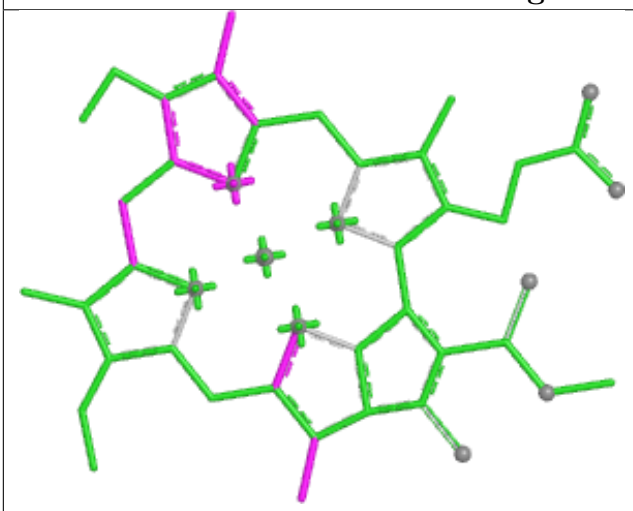


Torsions



Rings

Ligand CLA b 815



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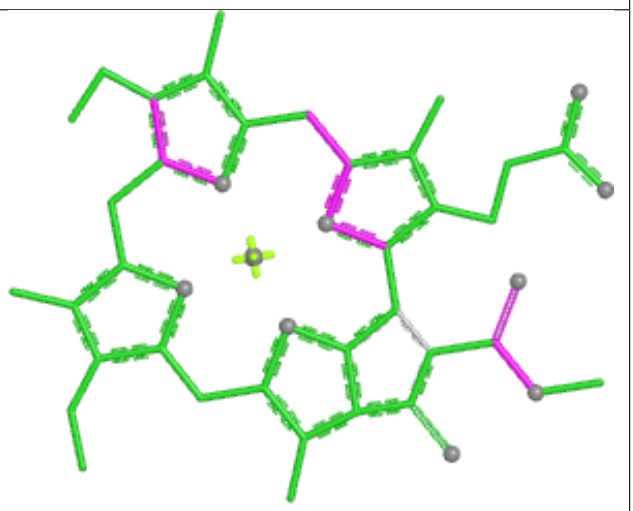
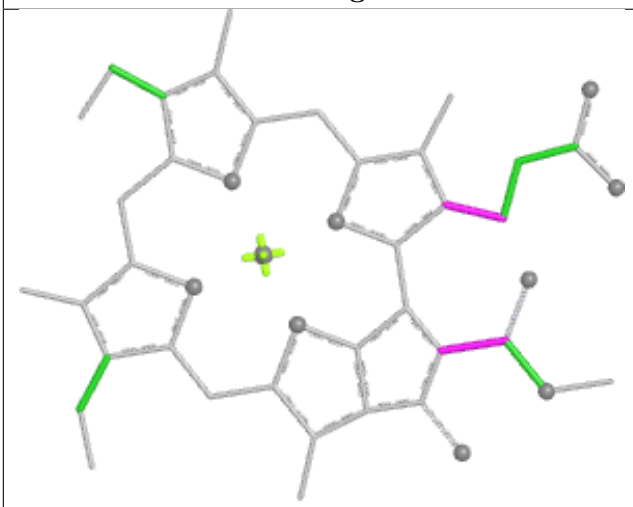


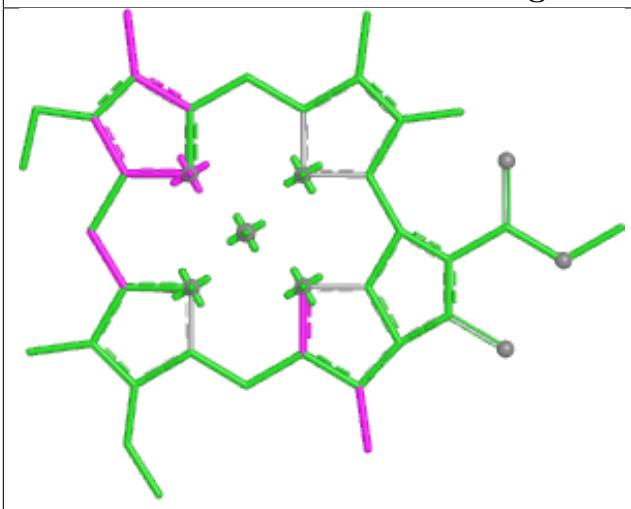
Bond angles



Torsions

Rings

Ligand CLA 8 314



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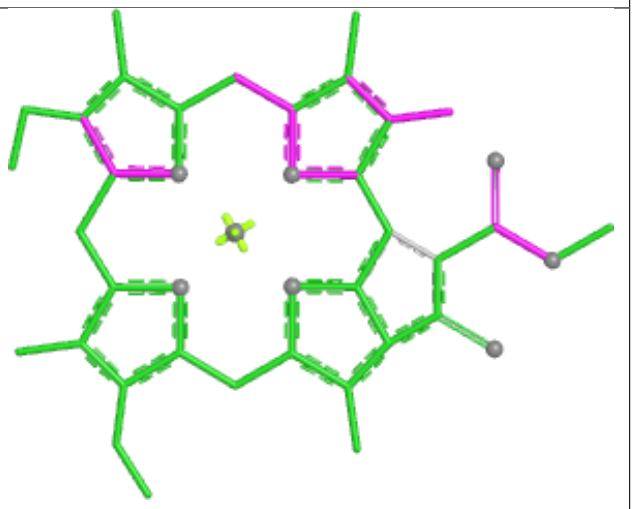
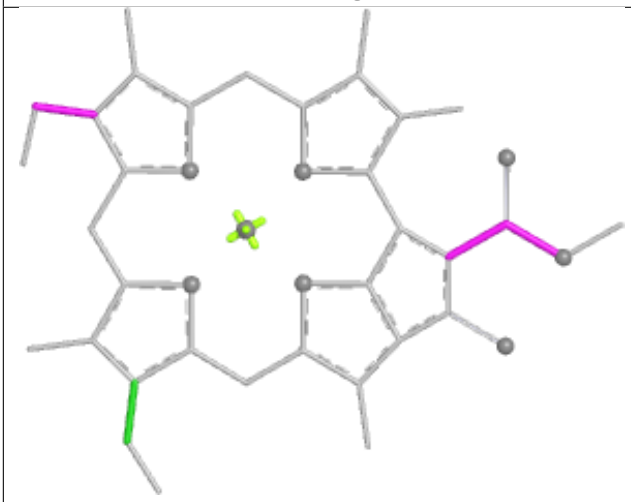
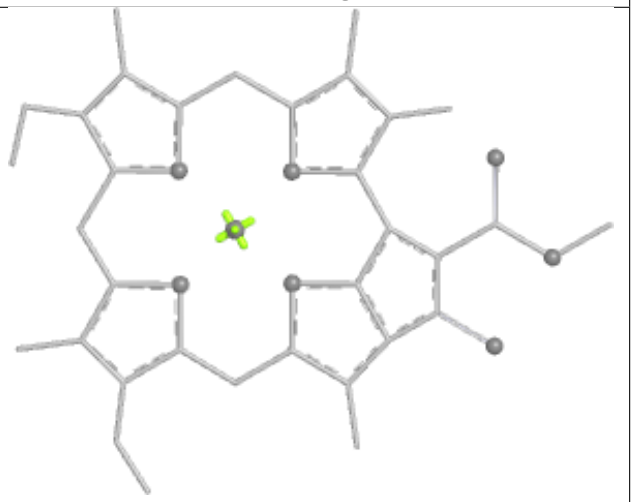


Bond angles



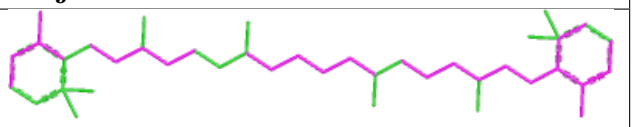
Torsions



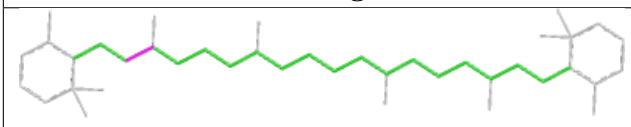
Rings

Ligand BCR j 104

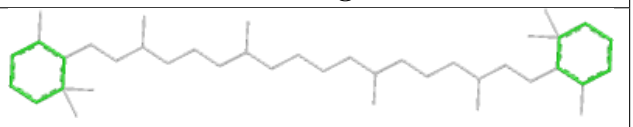
Bond lengths



Bond angles

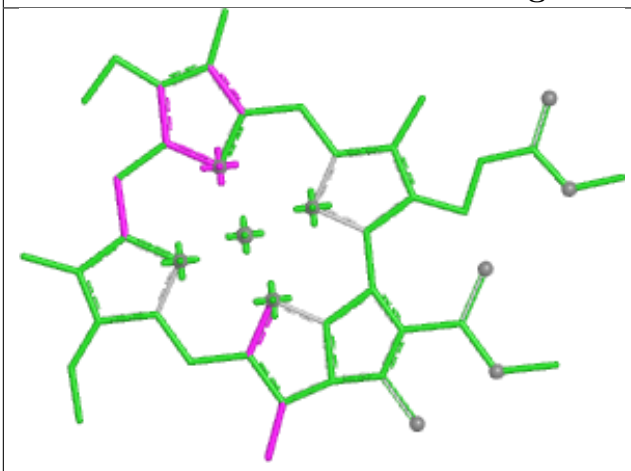


Torsions

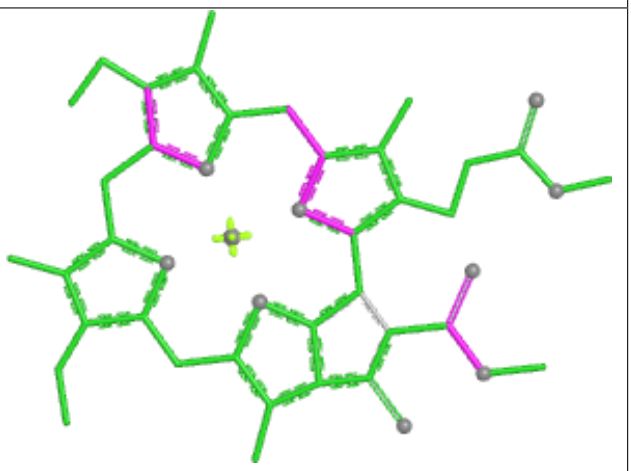


Rings

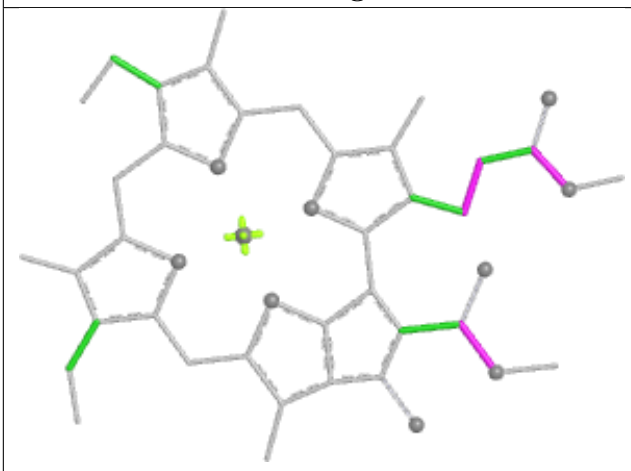
Ligand CLA 7 310



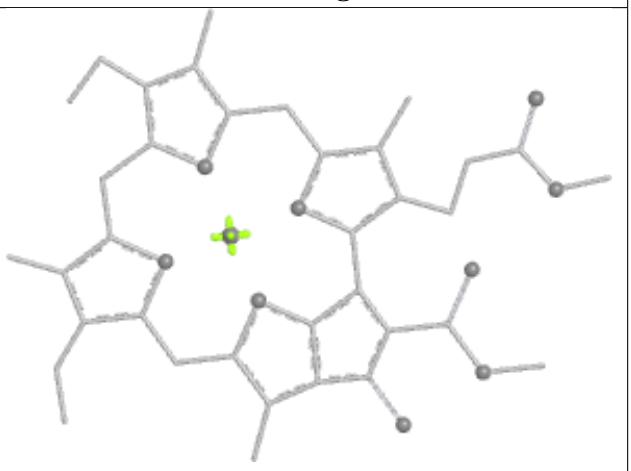
Bond lengths



Bond angles

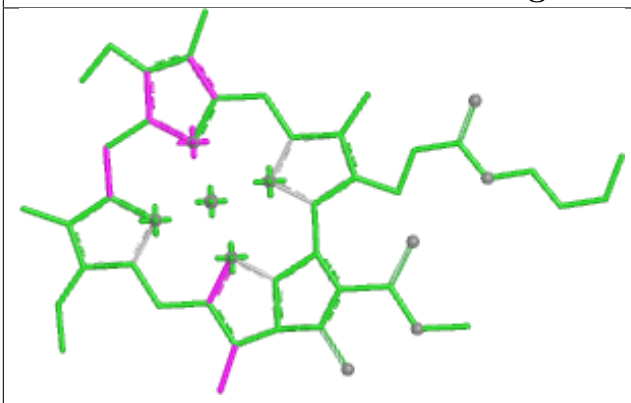


Torsions

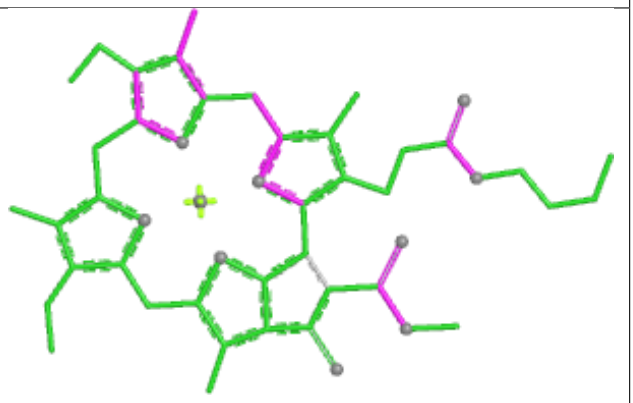


Rings

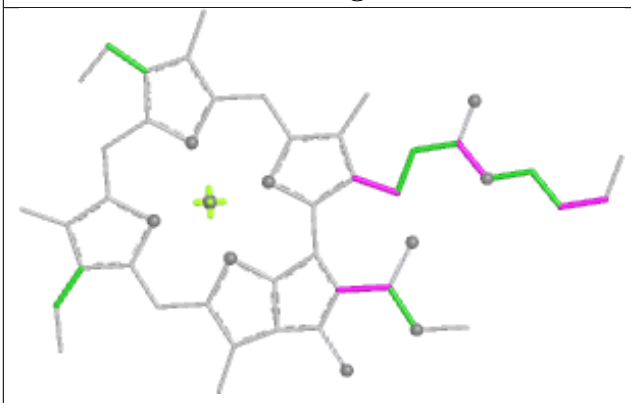
Ligand CLA a 823



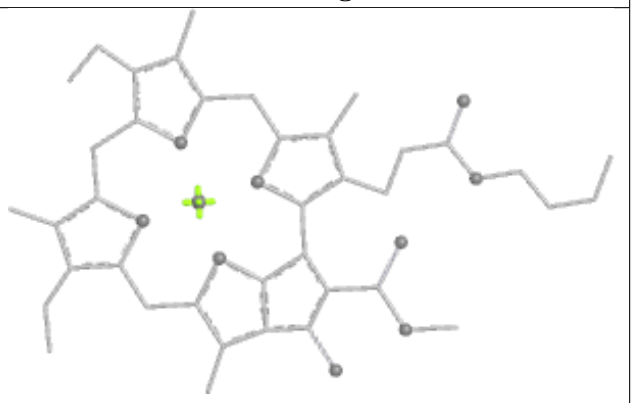
Bond lengths



Bond angles

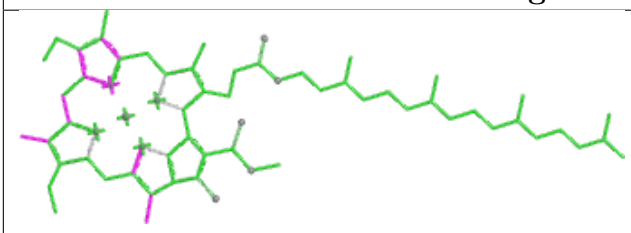


Torsions

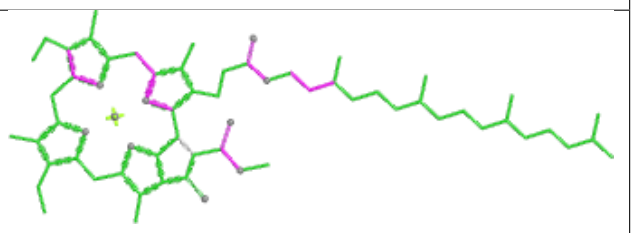


Rings

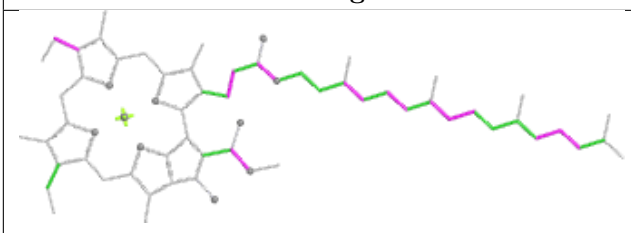
Ligand CLA a 841



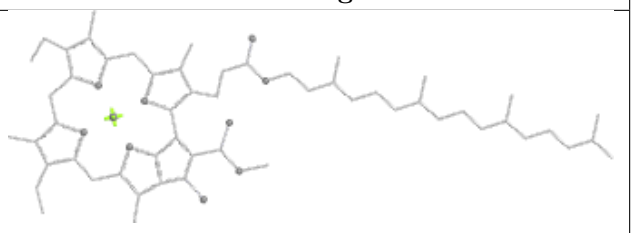
Bond lengths



Bond angles

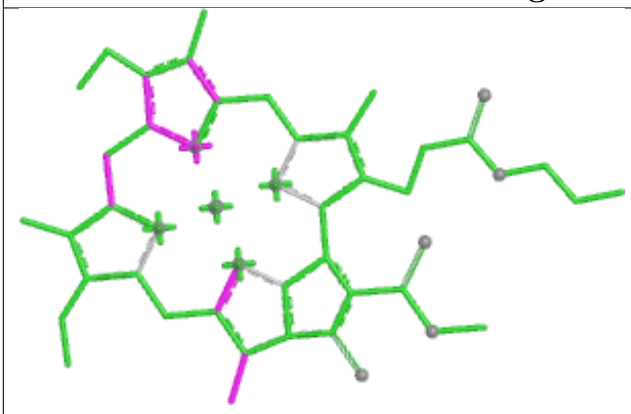


Torsions

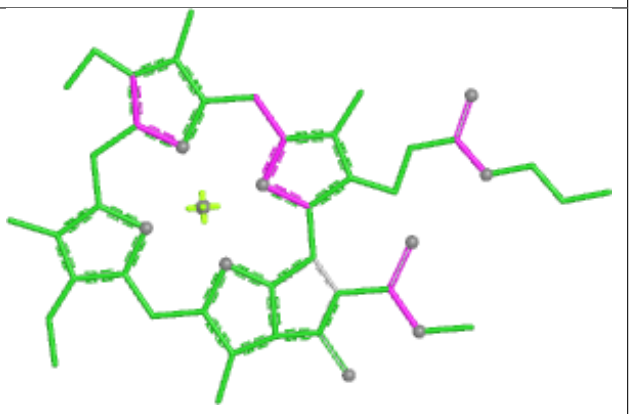


Rings

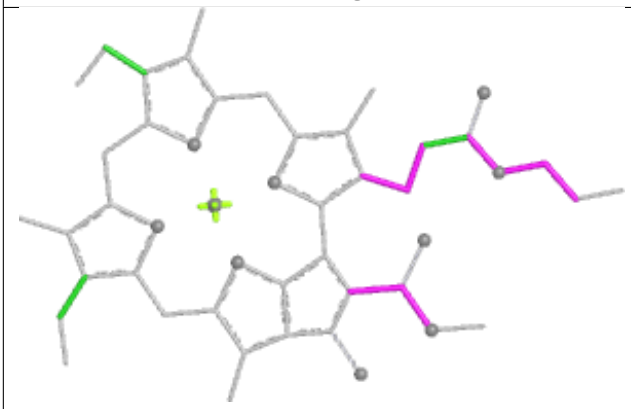
Ligand CLA 7 306



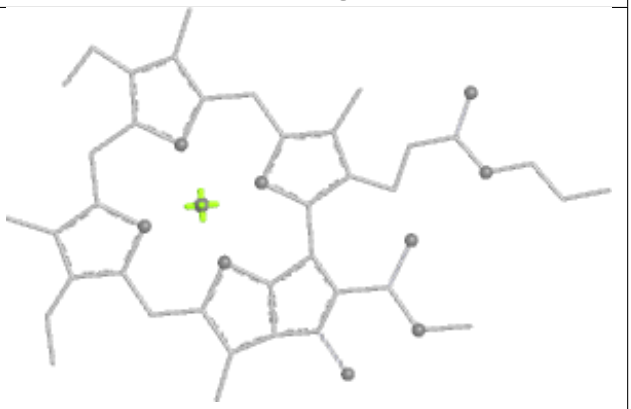
Bond lengths



Bond angles

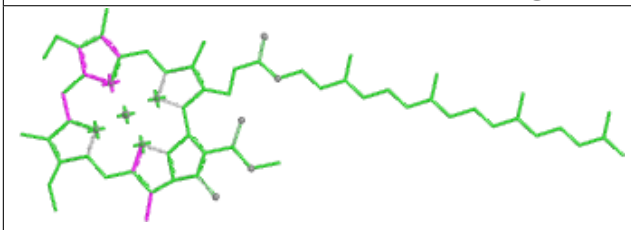


Torsions

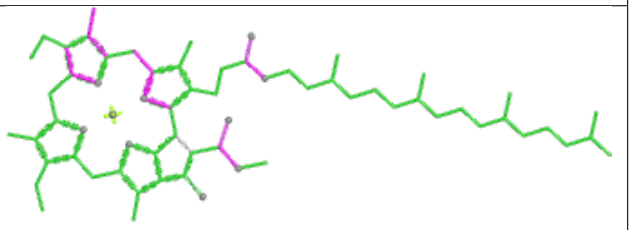


Rings

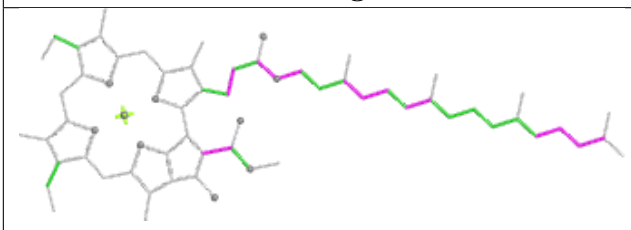
Ligand CLA a 839



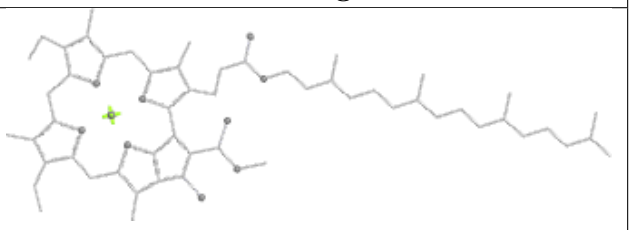
Bond lengths



Bond angles

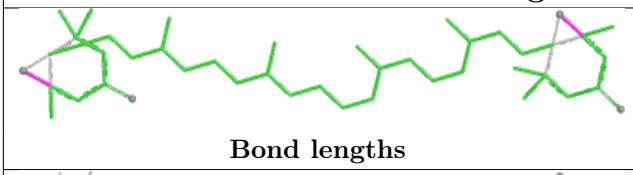


Torsions

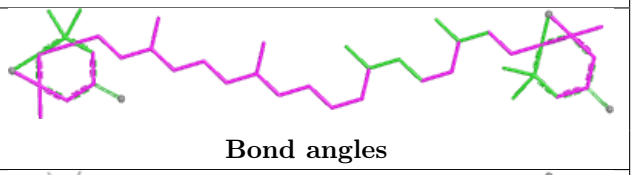


Rings

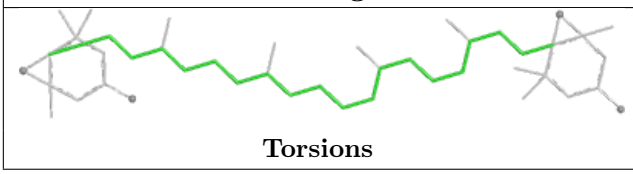
Ligand XAT 8 303



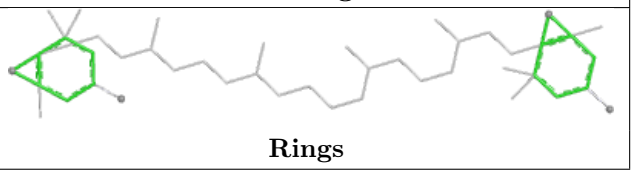
Bond lengths



Bond angles

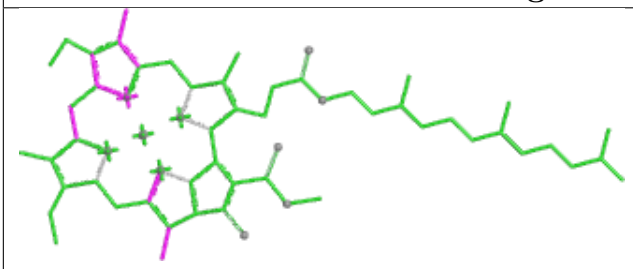


Torsions

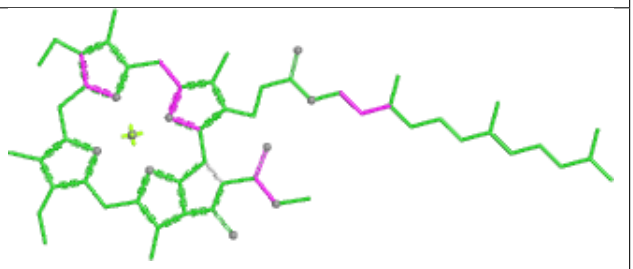


Rings

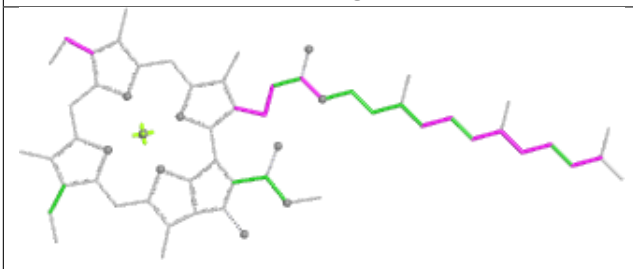
Ligand CLA b 818



Bond lengths



Bond angles



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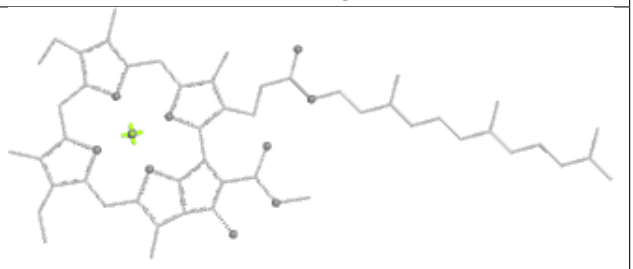
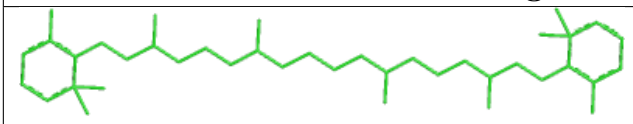


Rings

Ligand BCR h 201



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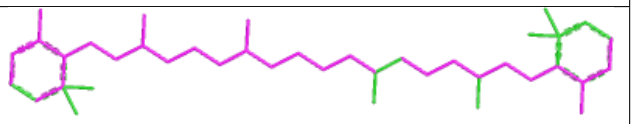
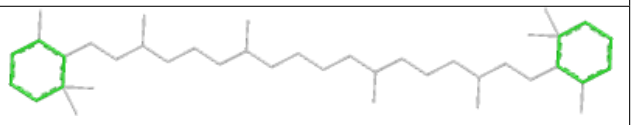


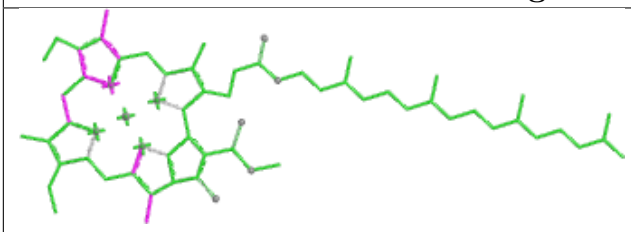
Bond angles

Torsions

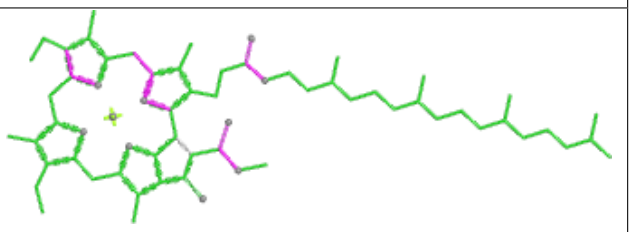


Rings

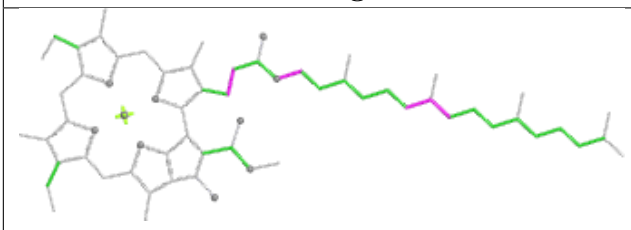
Ligand CLA a 822



Bond lengths



Bond angles



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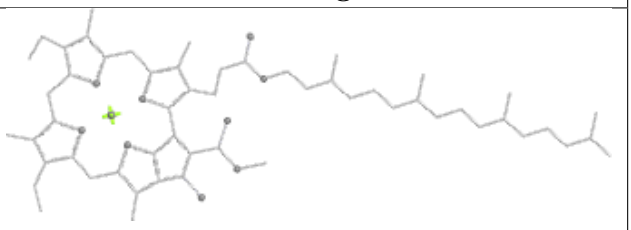
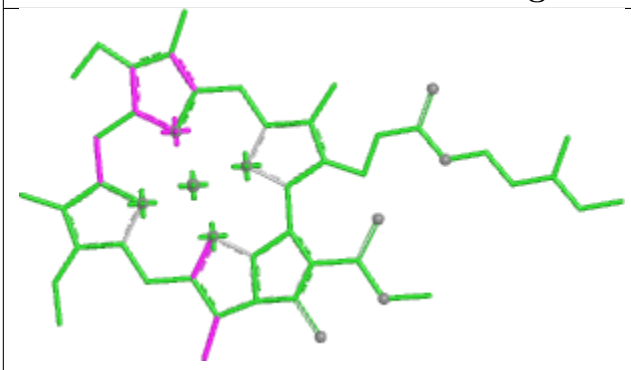


Rings

Ligand CLA a 838



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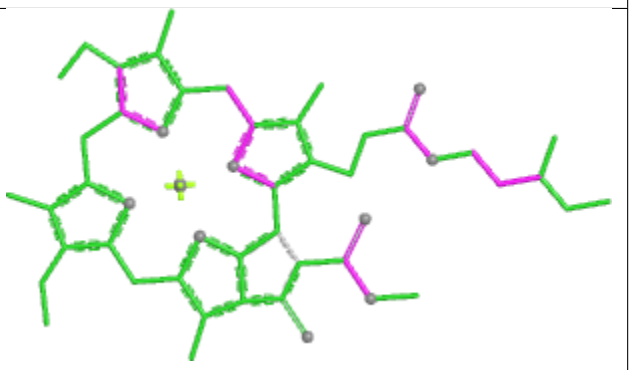
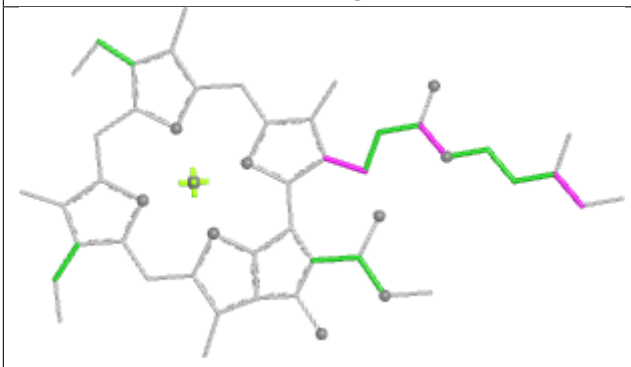


Bond angles



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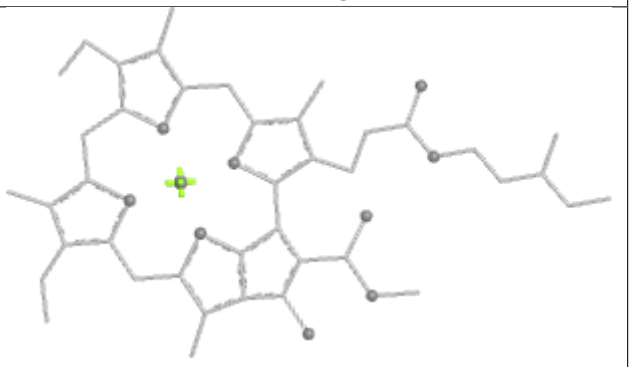
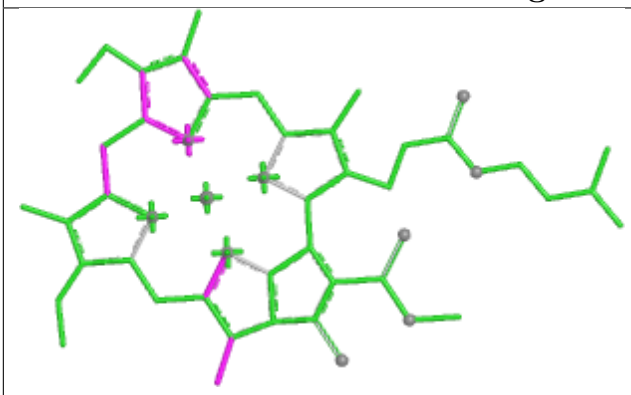
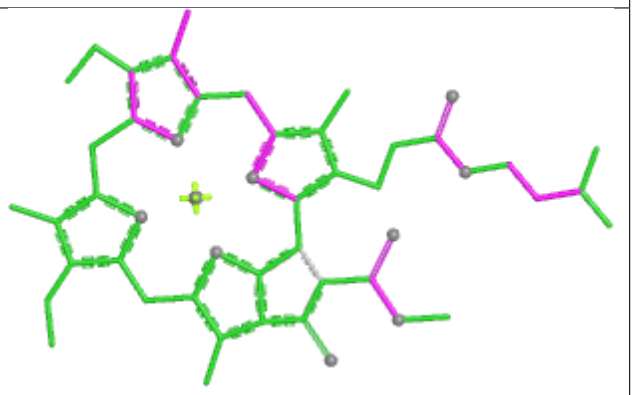


Rings

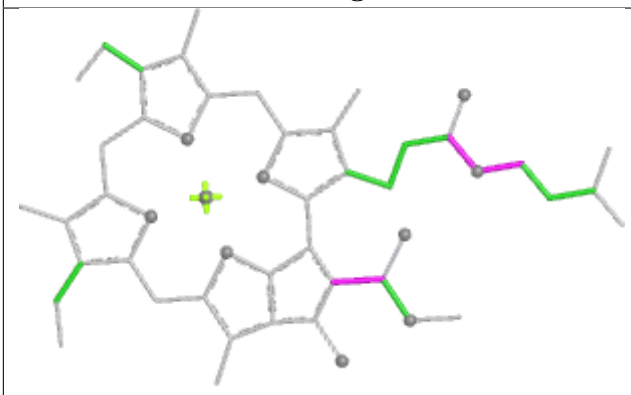
Ligand CLA a 816



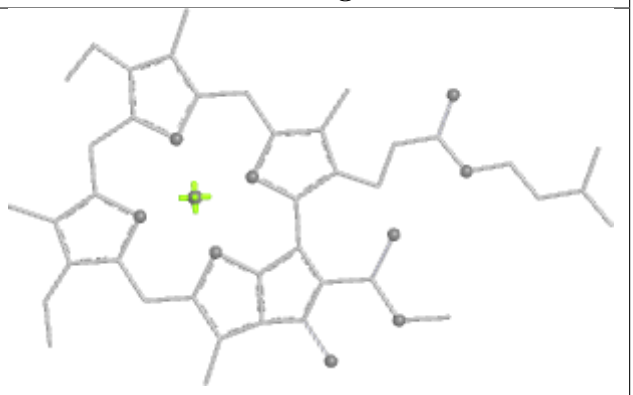
Bond lengths



Bond angles

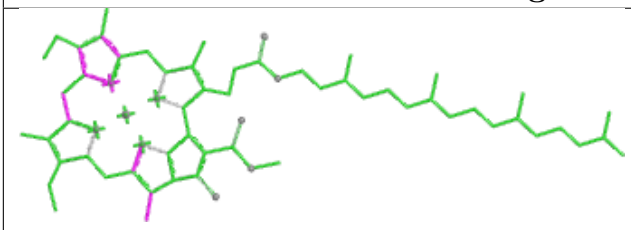


Torsions

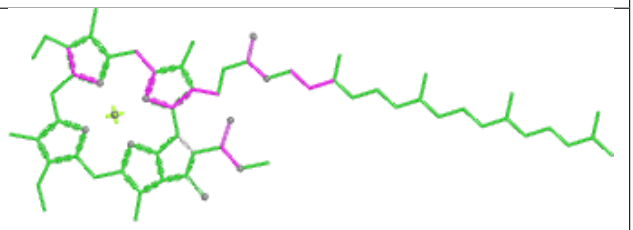


Rings

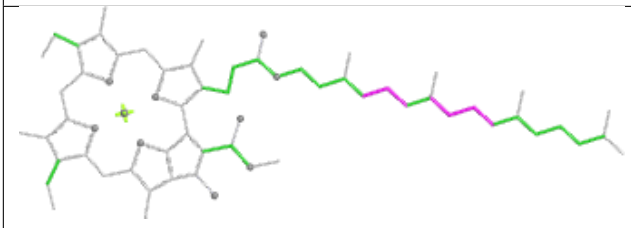
Ligand CLA a 827



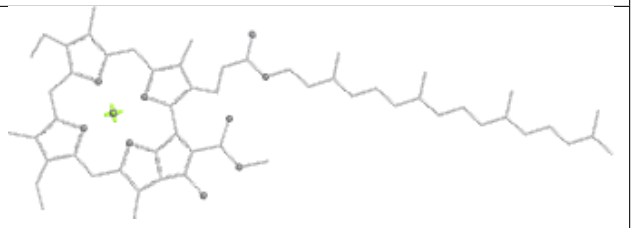
Bond lengths



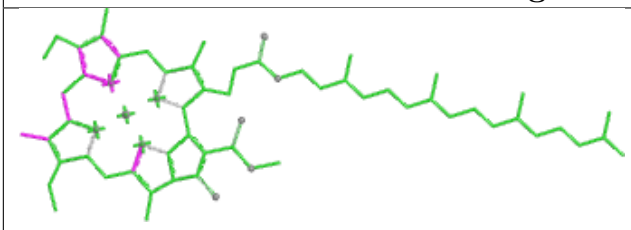
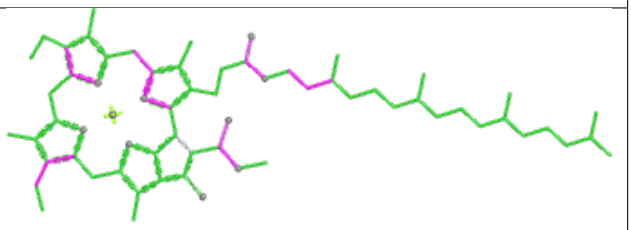
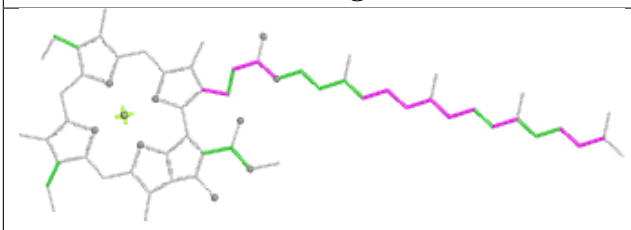
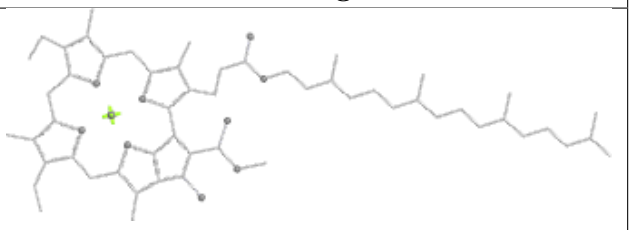
Bond angles

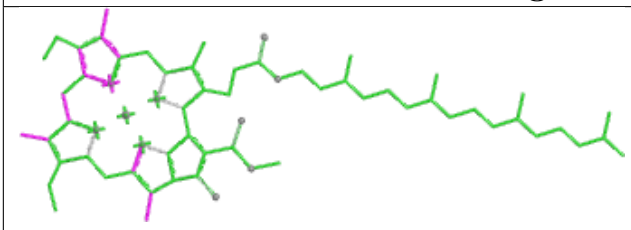
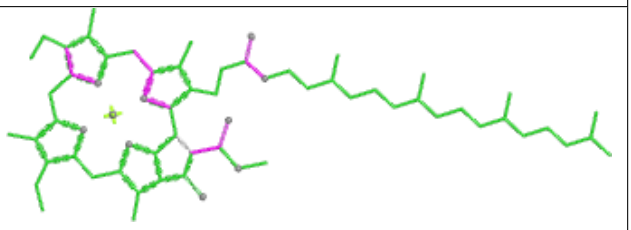
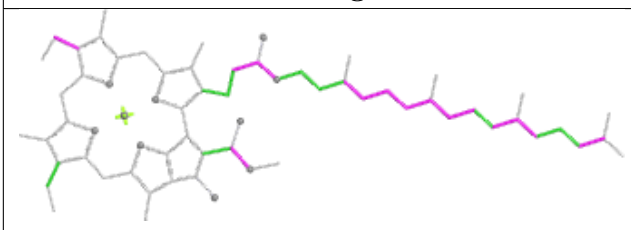
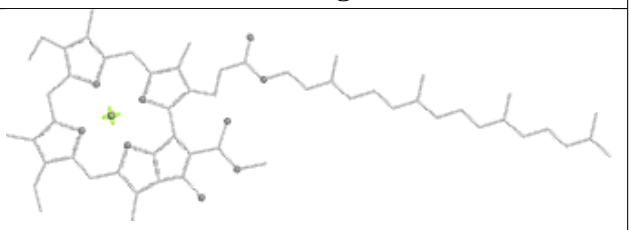


Torsions

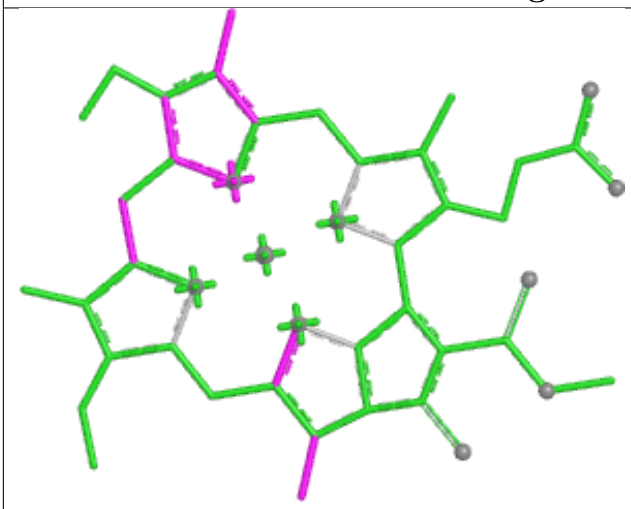


Rings

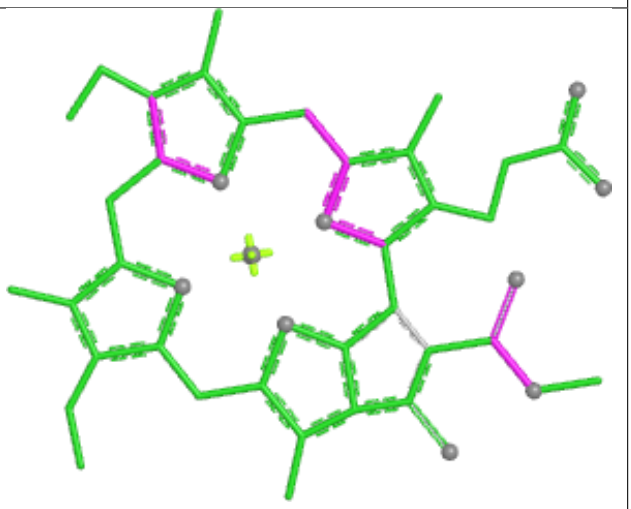
Ligand CLA 1 306	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA a 801	
	
Bond lengths	Bond angles
	
Torsions	Rings

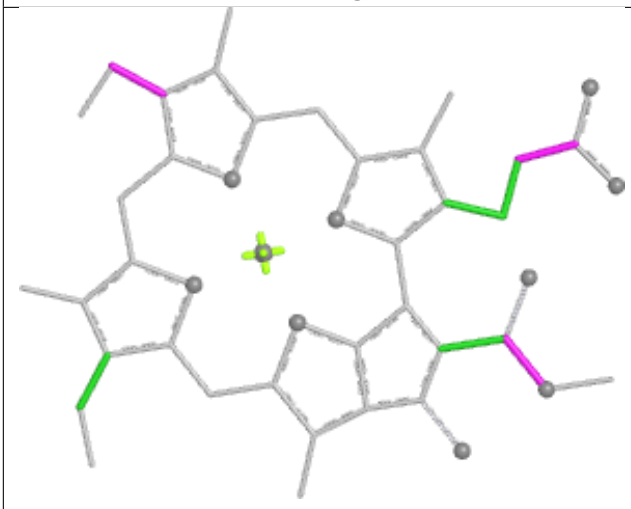
Ligand CLA 7 307



Bond lengths

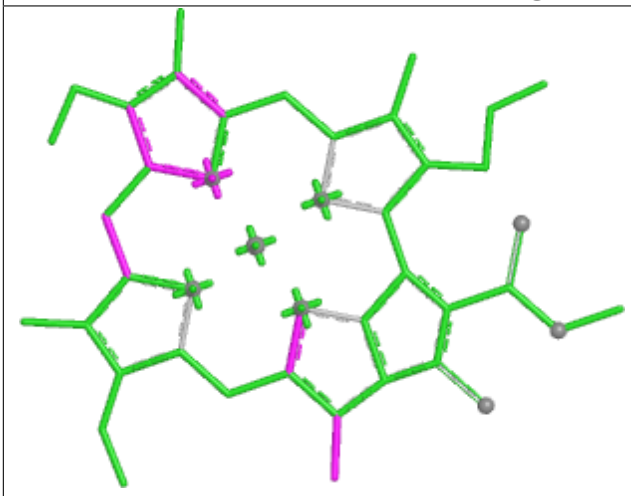
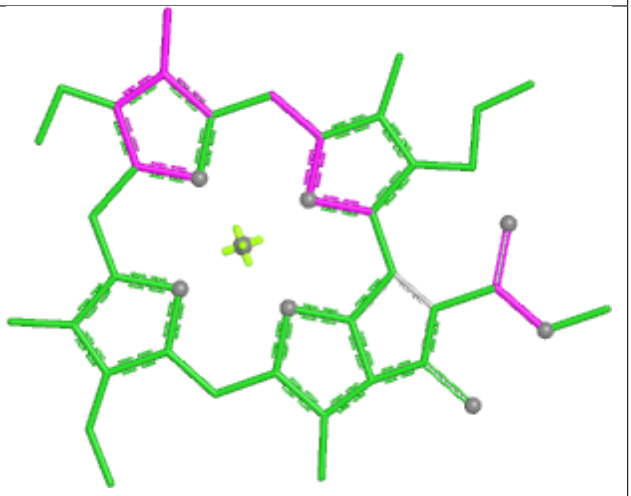
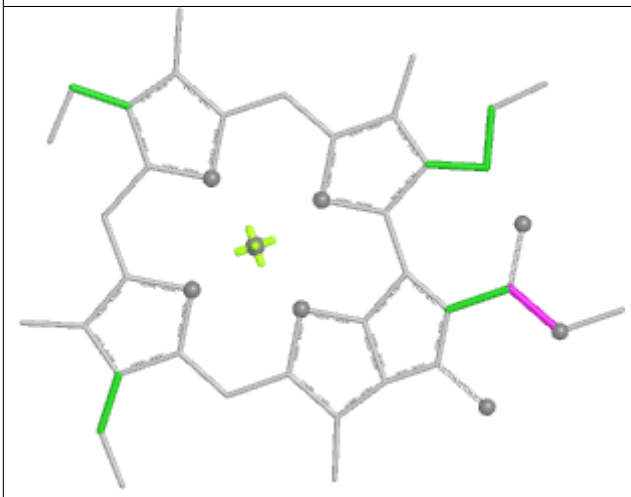
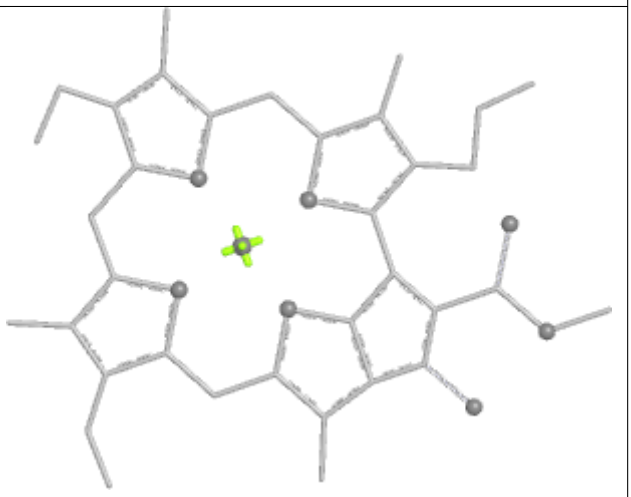


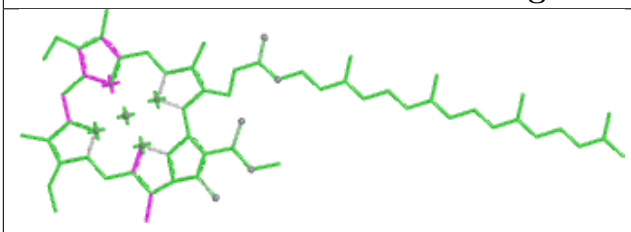
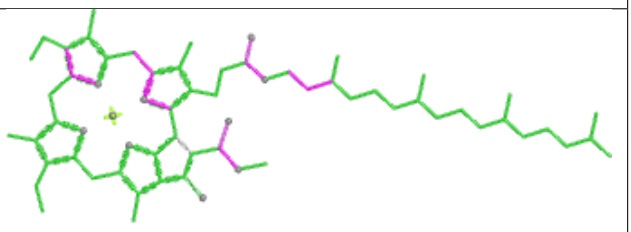
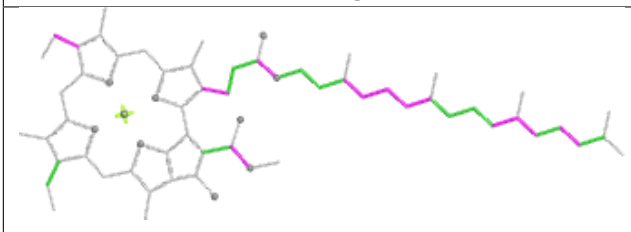
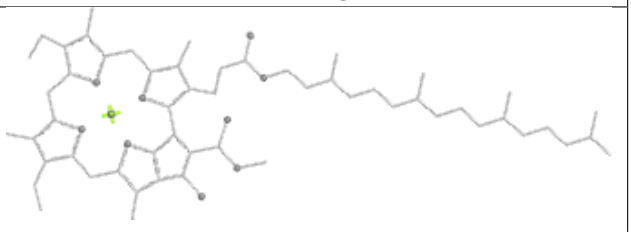
Bond angles



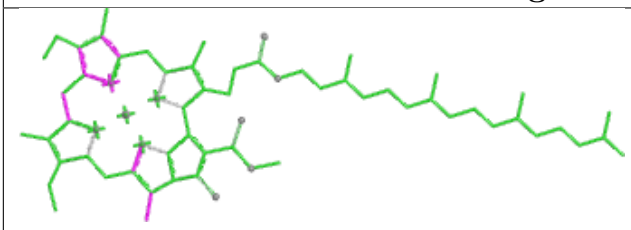
Torsions

Rings

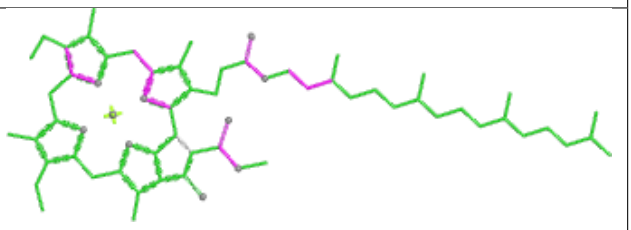
Ligand CLA 8 305	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA a 807	
	
Bond lengths	Bond angles
	
Torsions	Rings

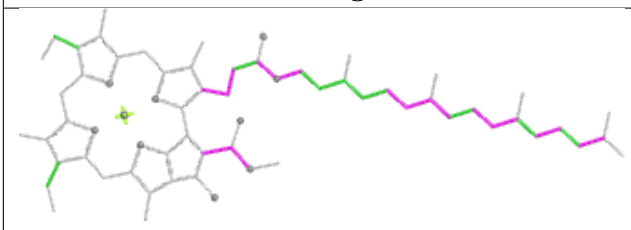
Ligand CLA a 814



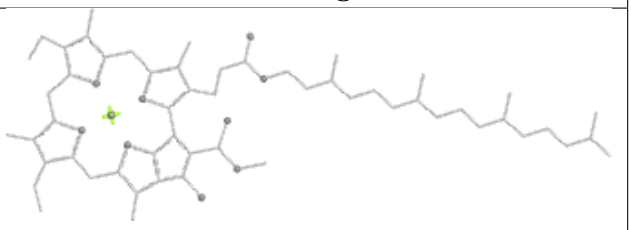
Bond lengths



Bond angles

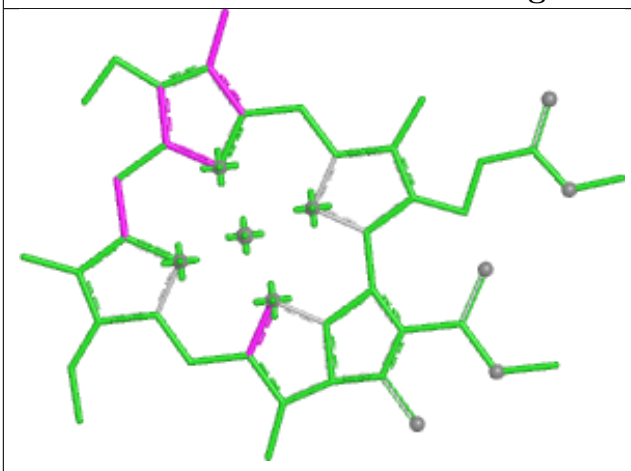


Torsions

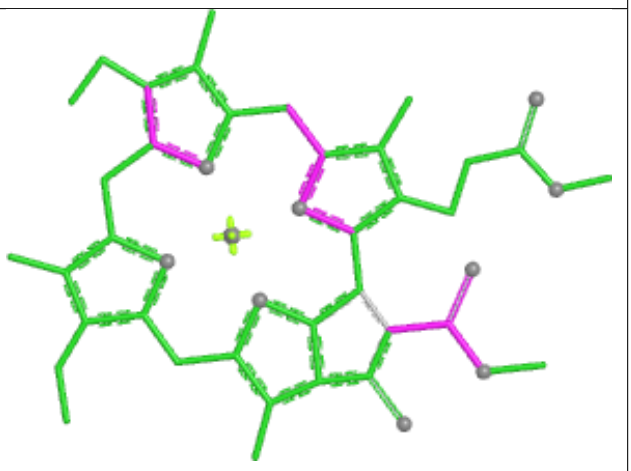


Rings

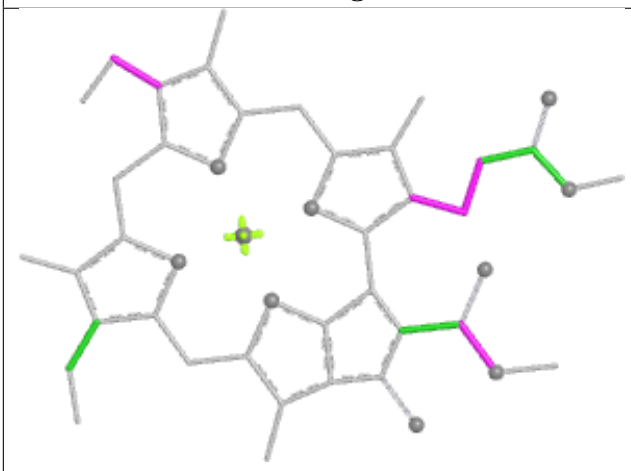
Ligand CLA 9 311



Bond lengths



Bond angles



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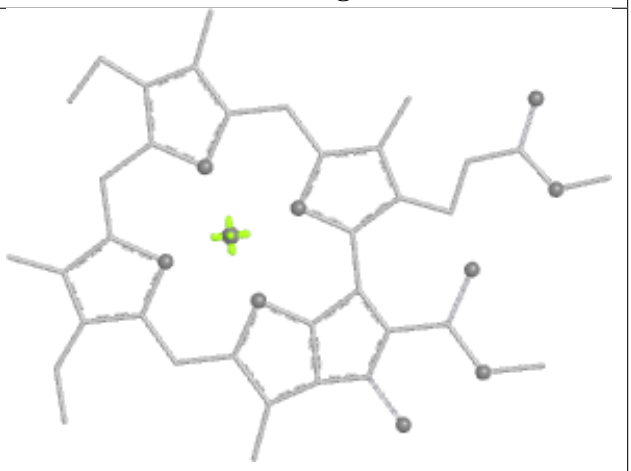
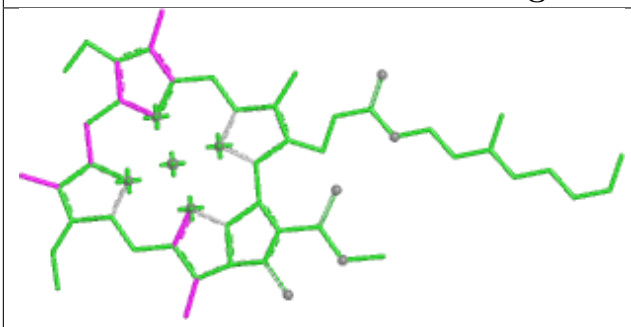
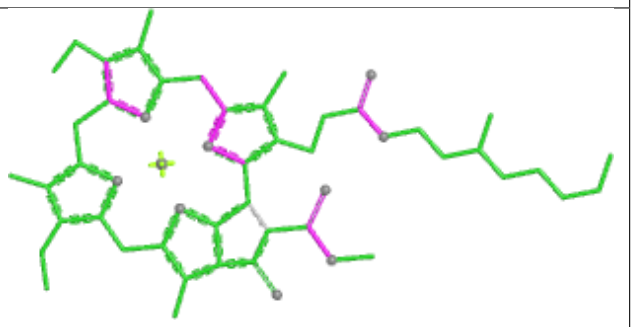


Rings

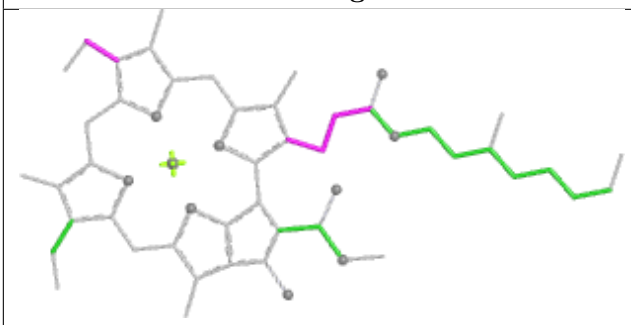
Ligand CLA a 819



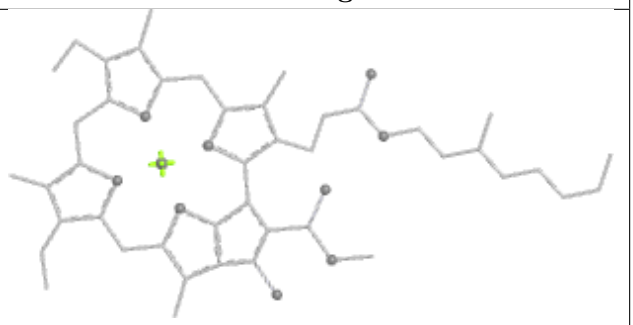
Bond lengths



Bond angles

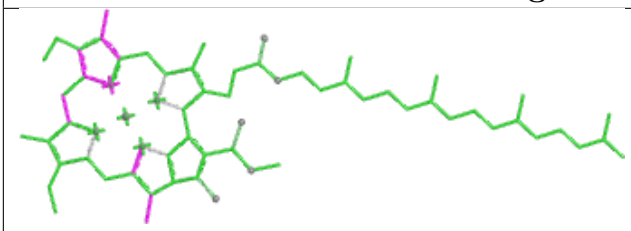


Torsions

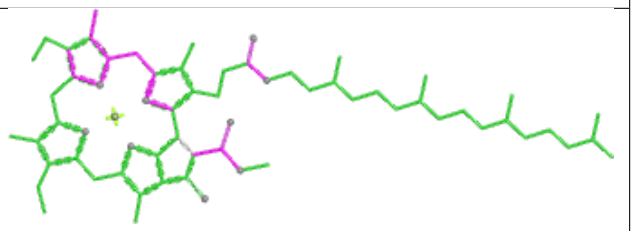


Rings

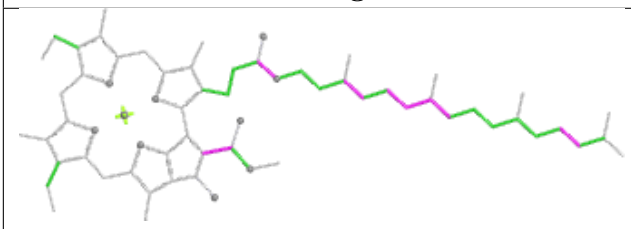
Ligand CLA a 831



Bond lengths



Bond angles



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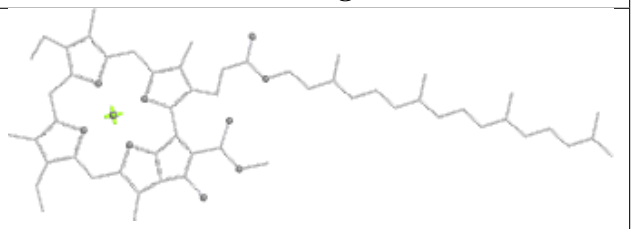
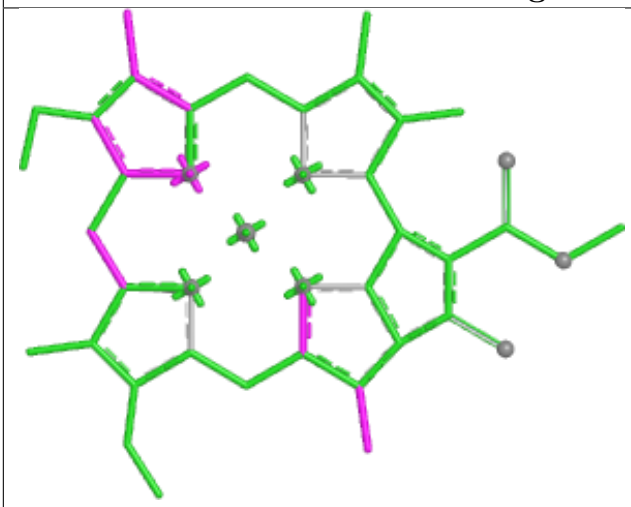
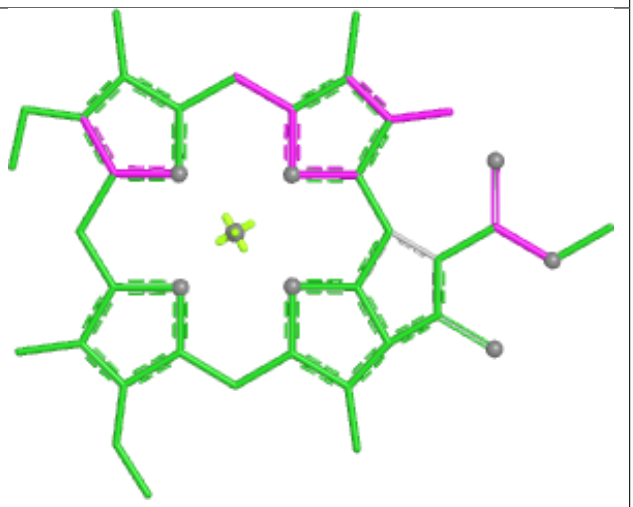


Rings

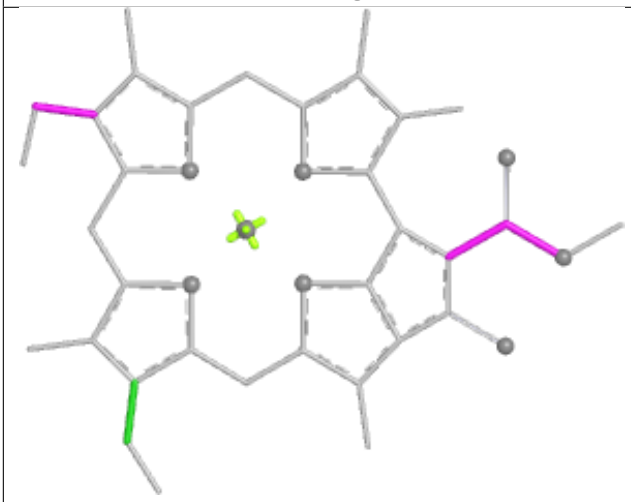
Ligand CLA 1 313



Bond lengths



Bond angles



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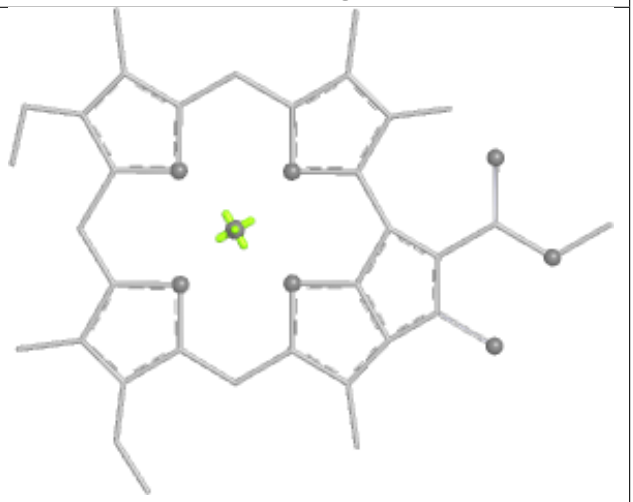
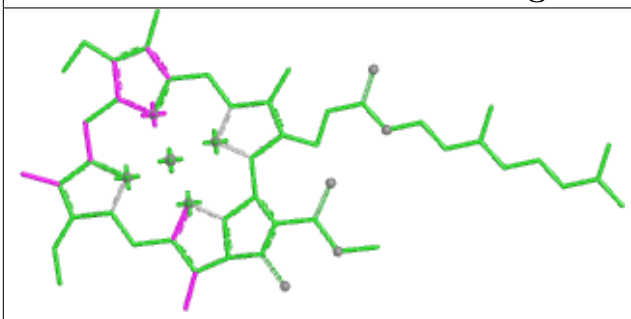
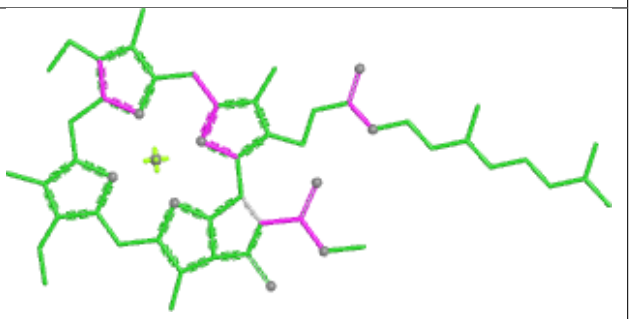
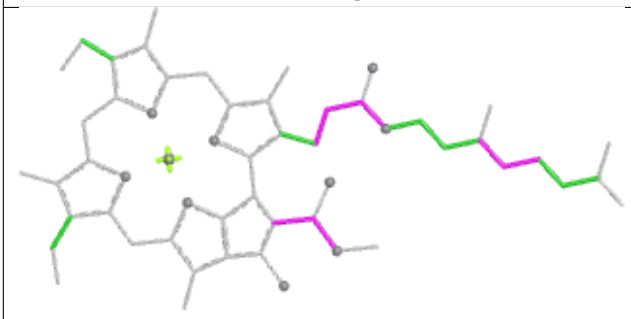
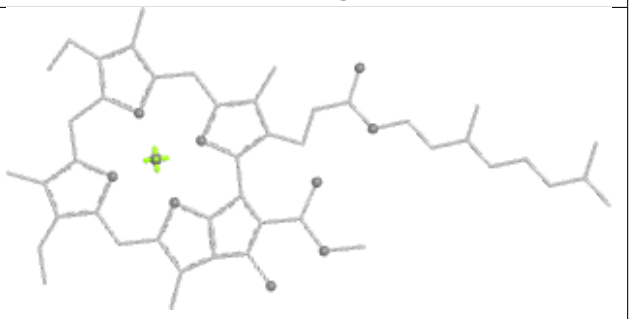
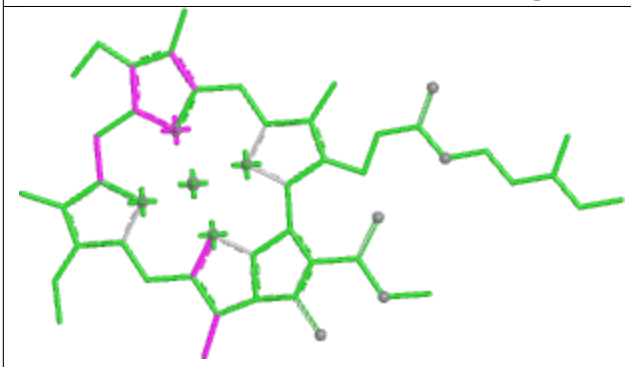
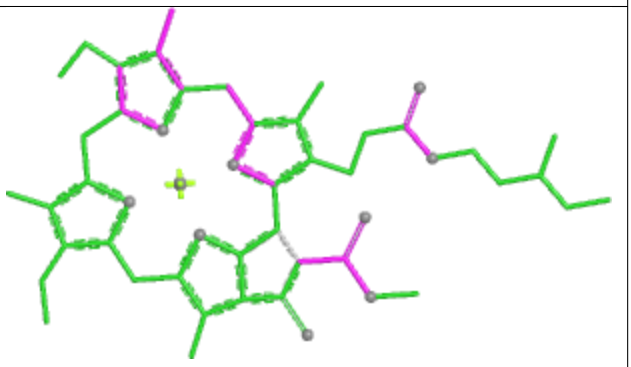
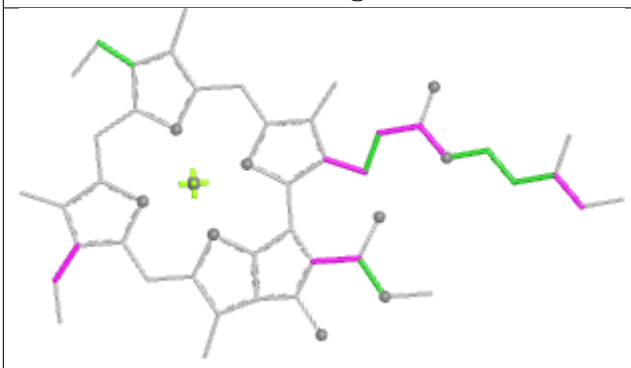
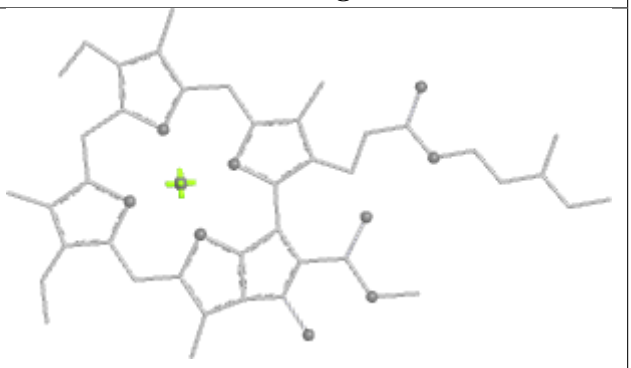
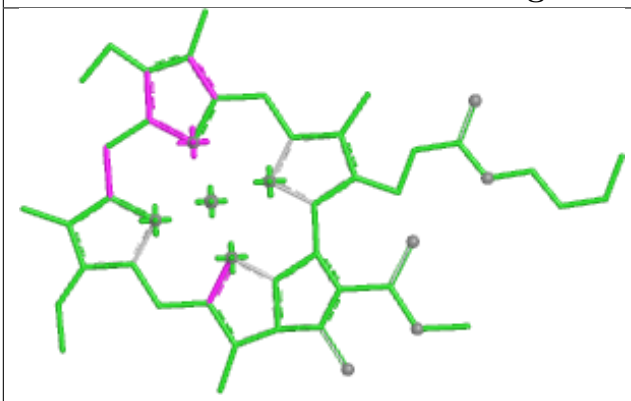


Rings

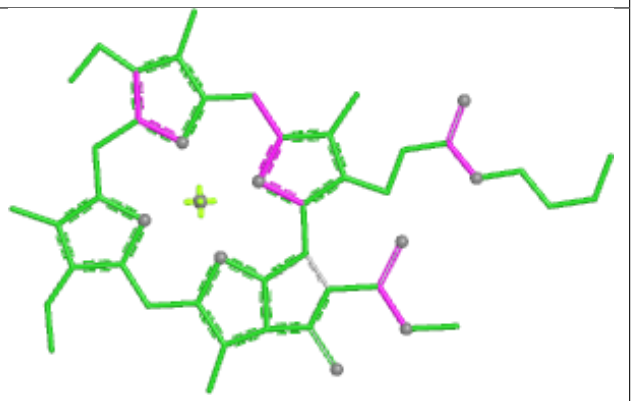
Ligand CLA 9 314	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 7 316	
 Bond lengths	 Bond angles
 Torsions	 Rings

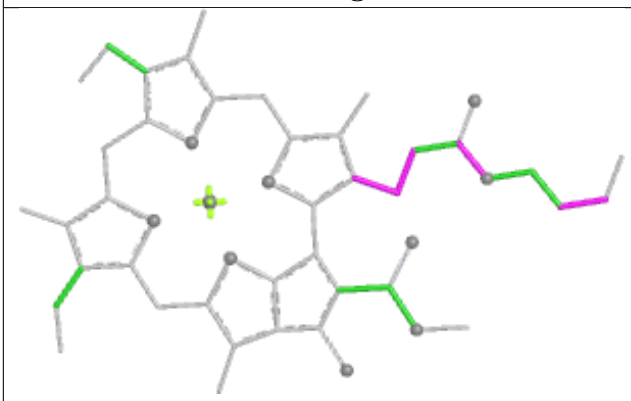
Ligand CLA b 831



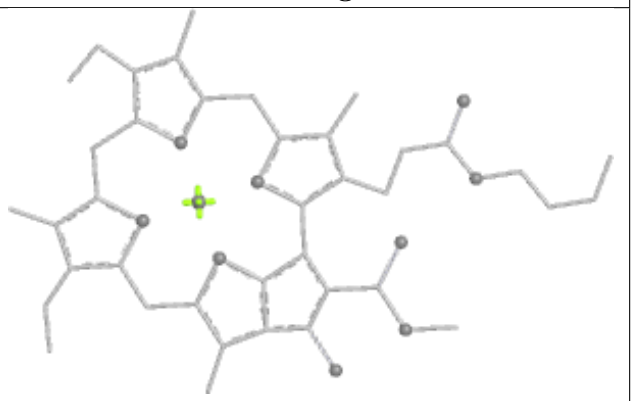
Bond lengths



Bond angles

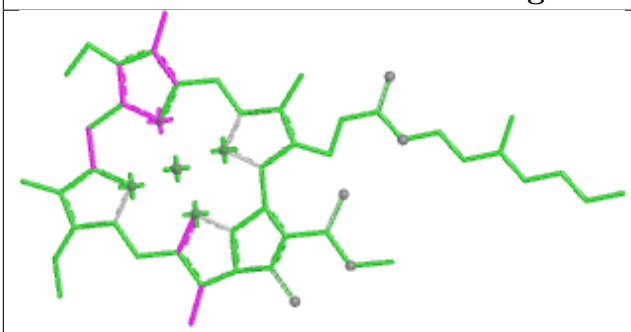


Torsions

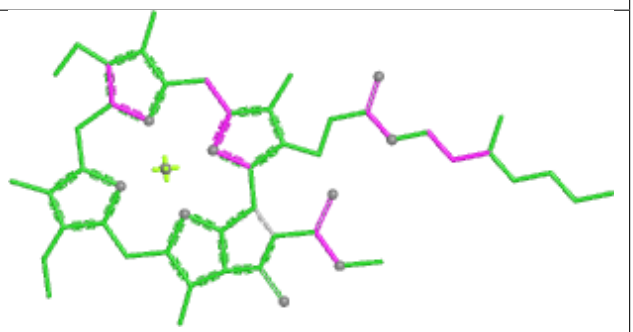


Rings

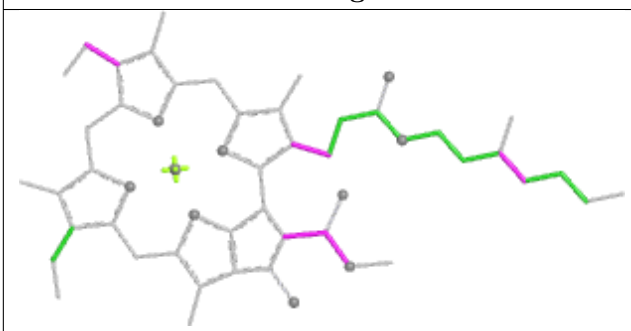
Ligand CLA b 834



Bond lengths



Bond angles



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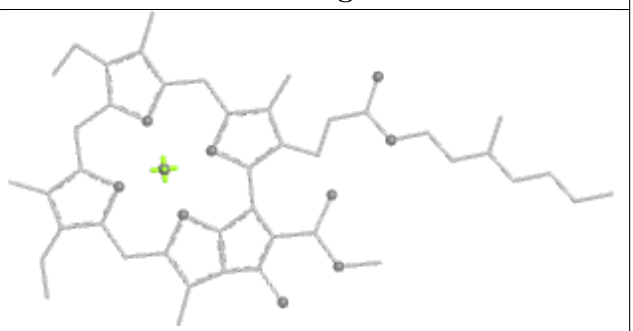
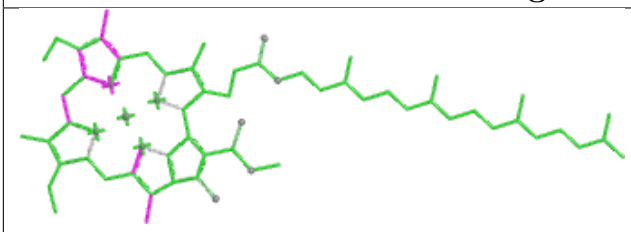
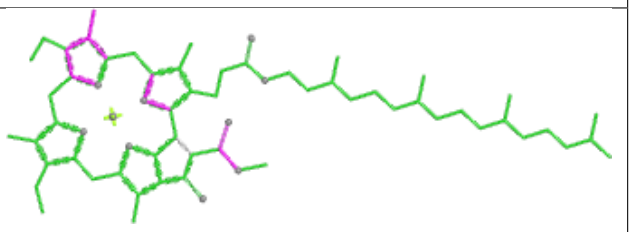


Rings

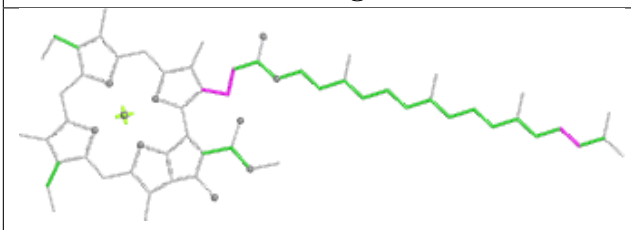
Ligand CLA a 803



Bond lengths



Bond angles



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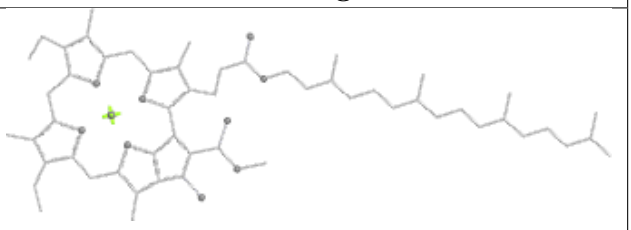
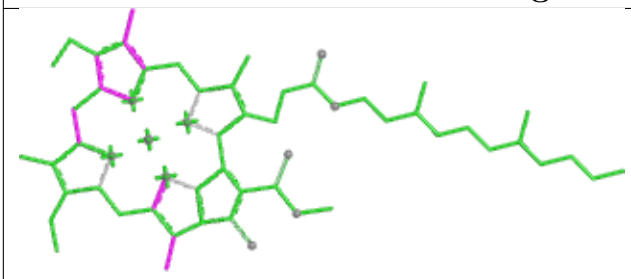
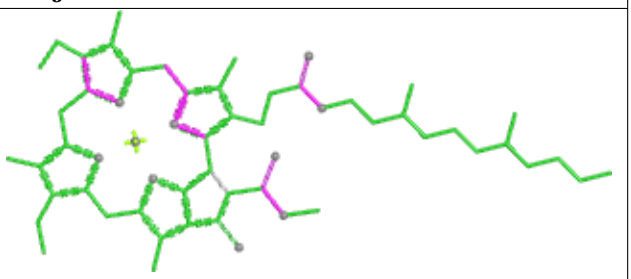


Rings

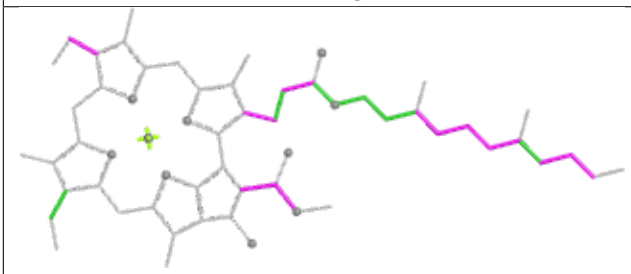
Ligand CLA j 102



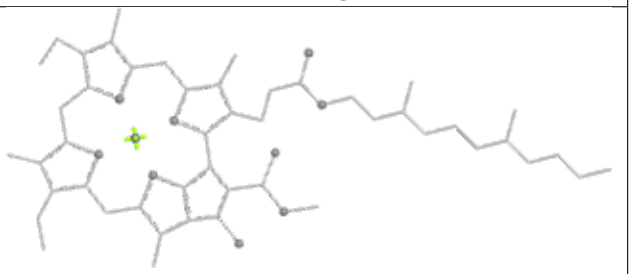
Bond lengths



Bond angles

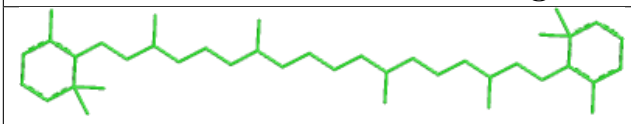


Torsions

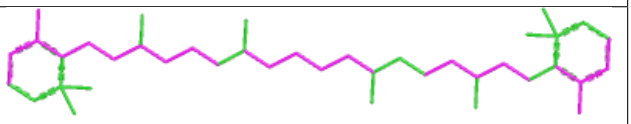


Rings

Ligand BCR l 205

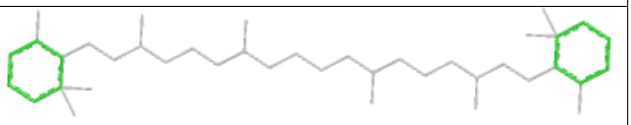


Bond lengths



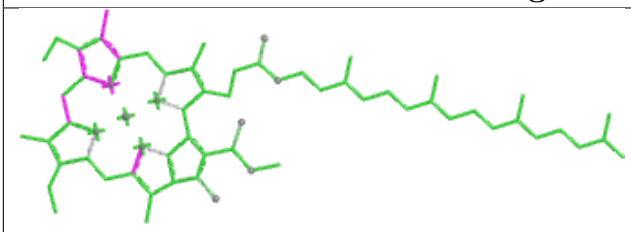
Bond angles

Torsions

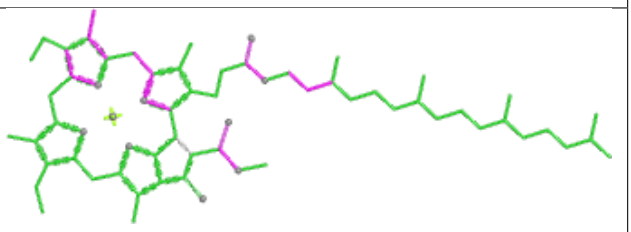


Rings

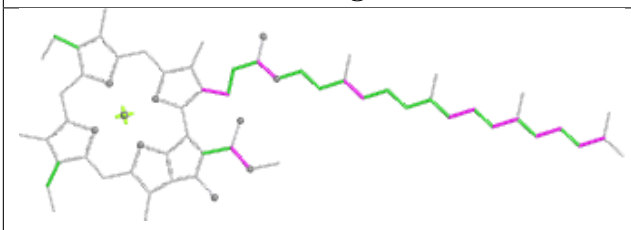
Ligand CLA a 820



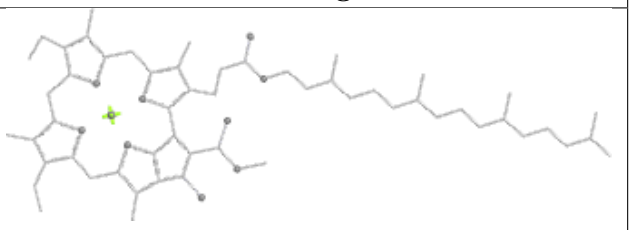
Bond lengths



Bond angles

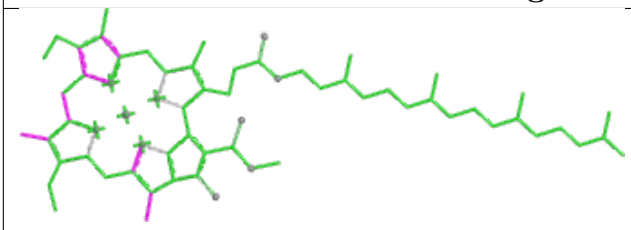


Torsions

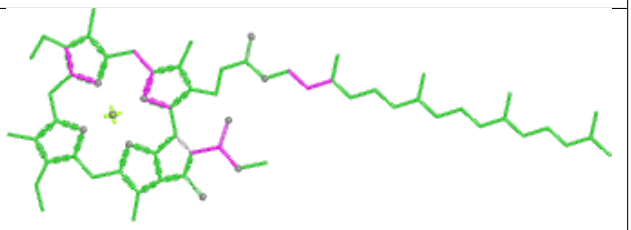


Rings

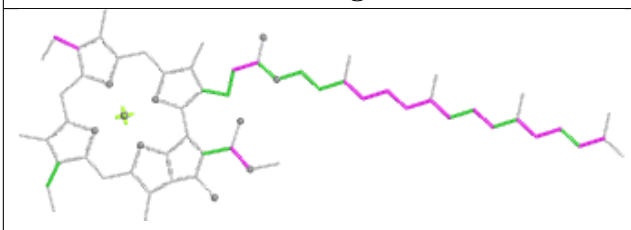
Ligand CLA b 803



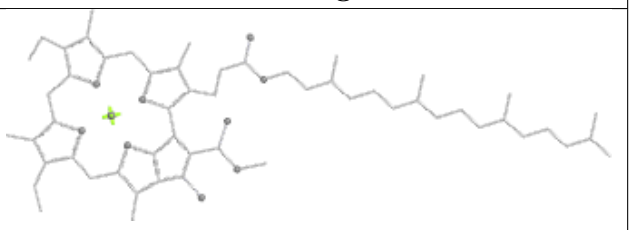
Bond lengths



Bond angles

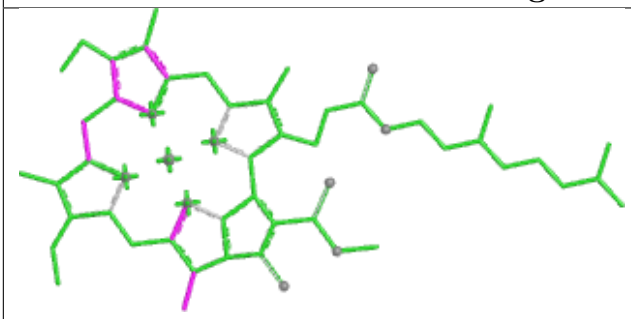


Torsions

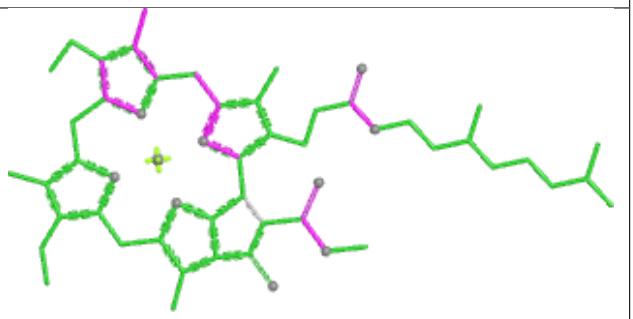


Rings

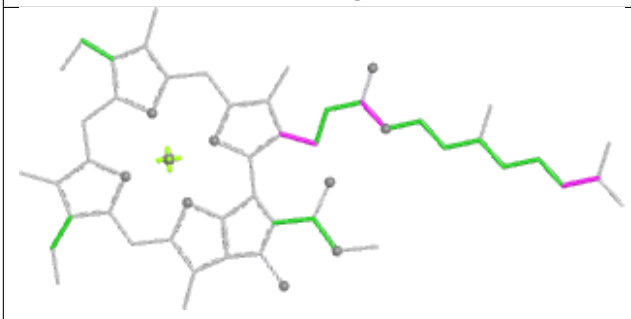
Ligand CLA a 805



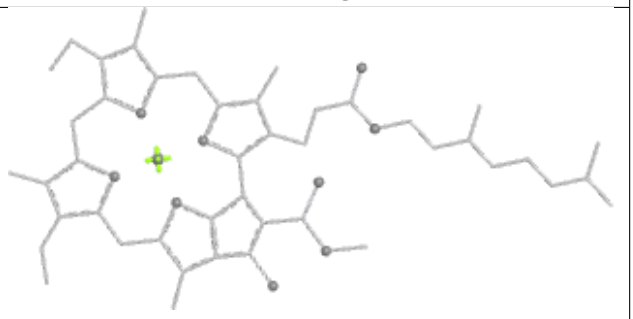
Bond lengths



Bond angles

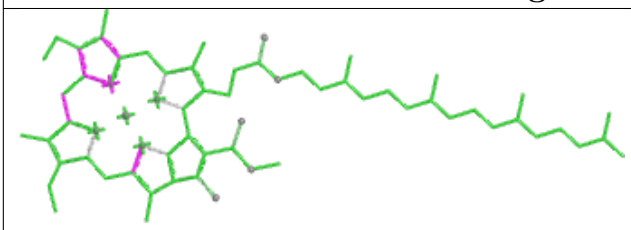


Torsions

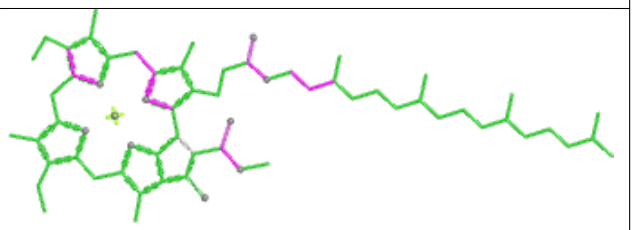


Rings

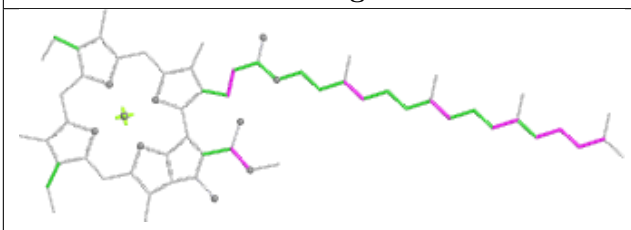
Ligand CLA 1 308



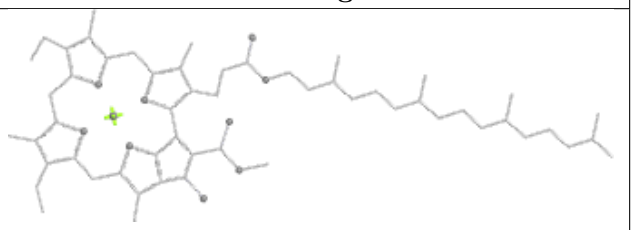
Bond lengths



Bond angles

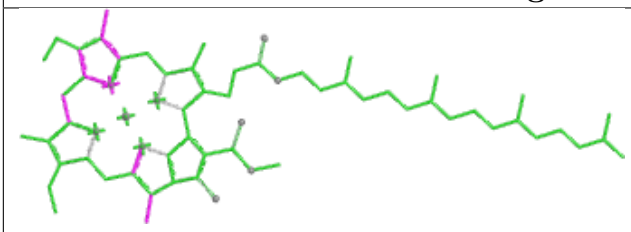


Torsions



Rings

Ligand CLA b 813



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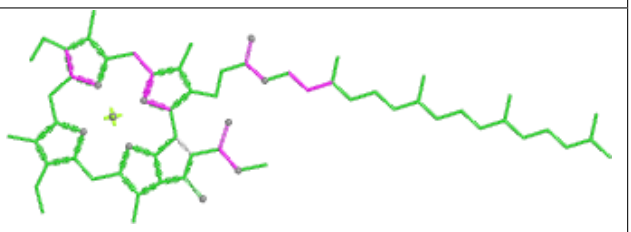
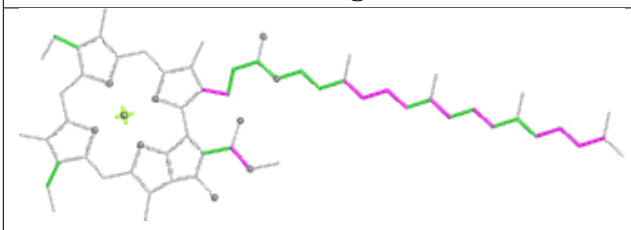
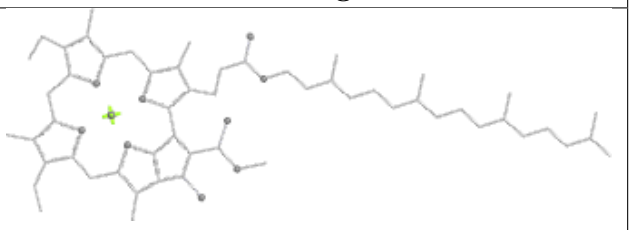


Bond angles



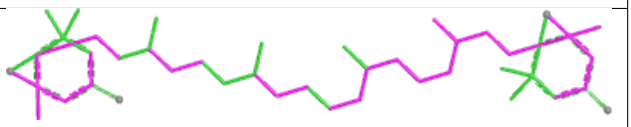
Torsions



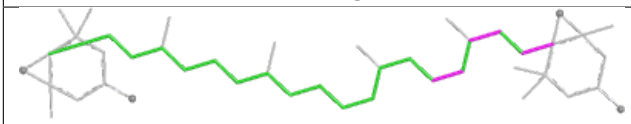
Rings

Ligand XAT 8 302

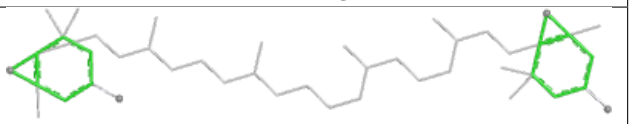
Bond lengths



Bond angles

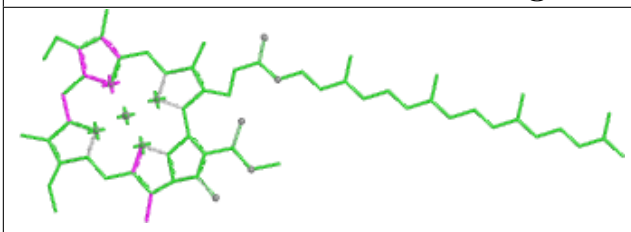


Torsions

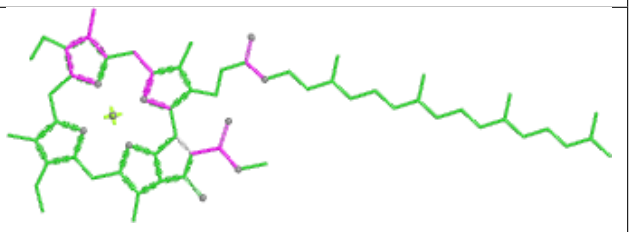


Rings

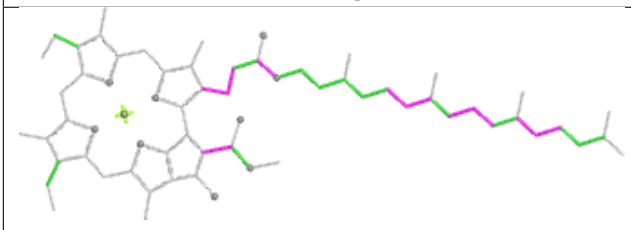
Ligand CLA a 809



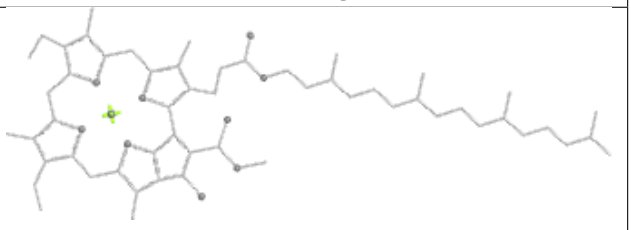
Bond lengths



Bond angles

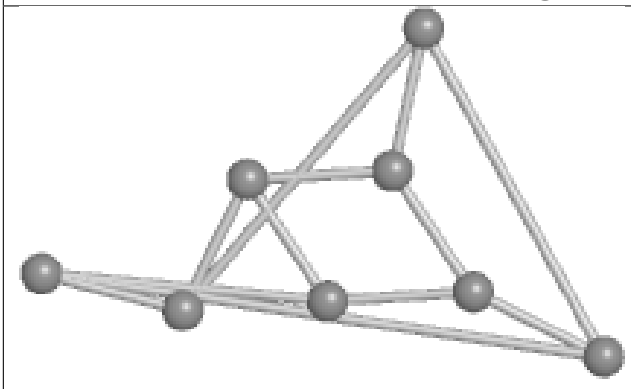


Torsions

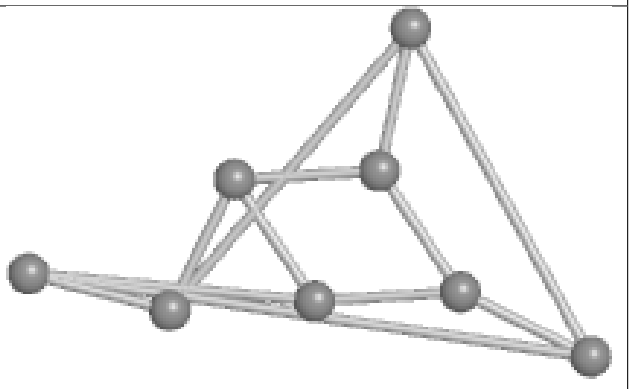


Rings

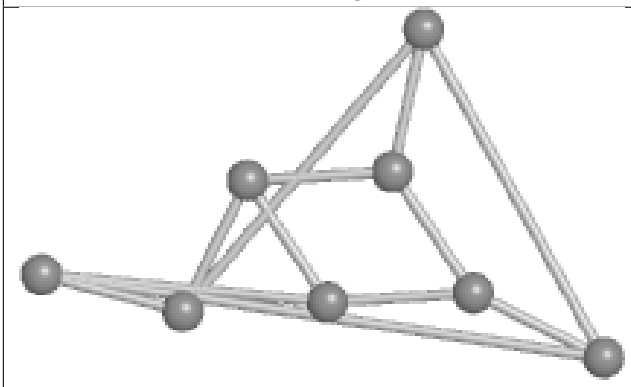
Ligand SF4 c 102



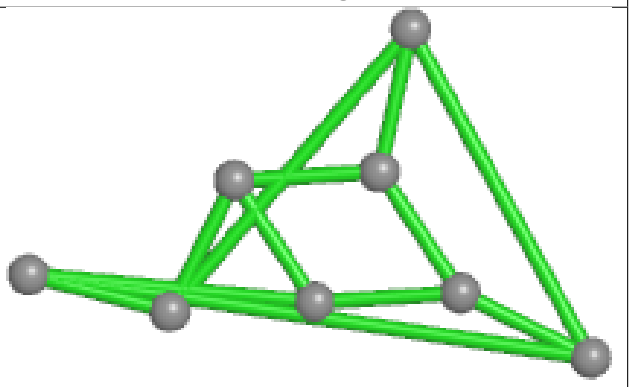
Bond lengths



Bond angles

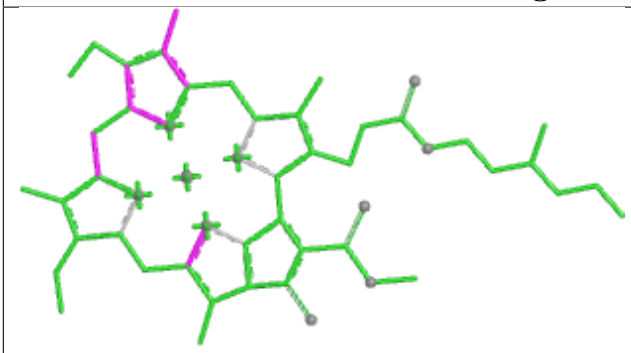


Torsions

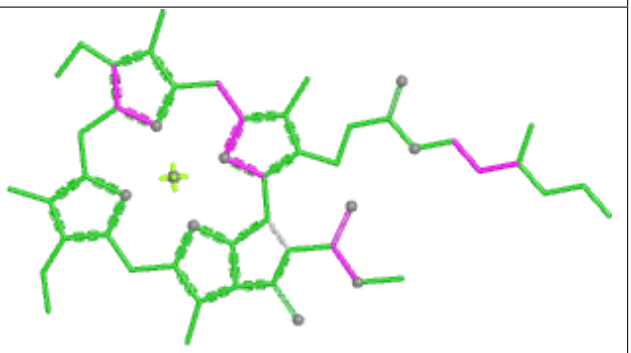


Rings

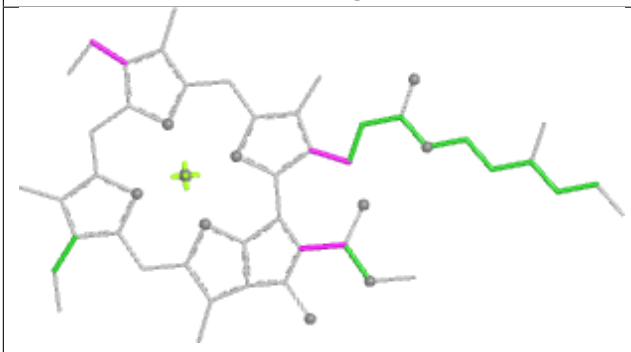
Ligand CLA f 803



Bond lengths



Bond angles



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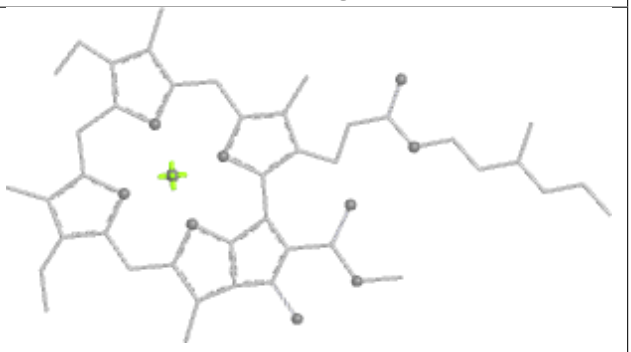
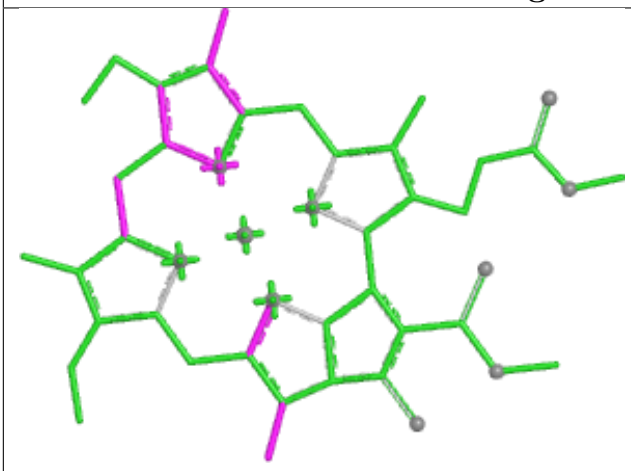
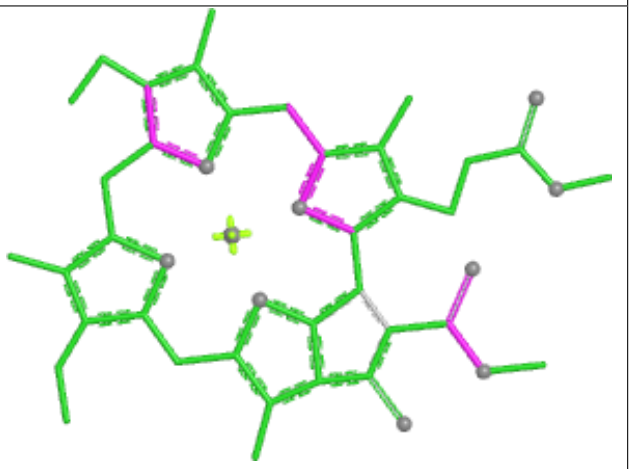


Rings

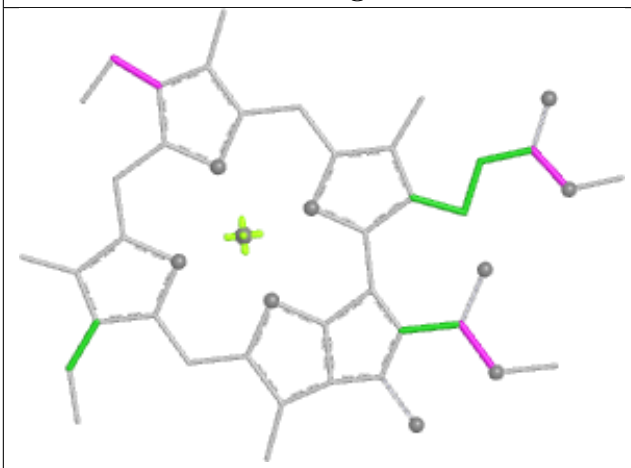
Ligand CLA 8 310



Bond lengths



Bond angles



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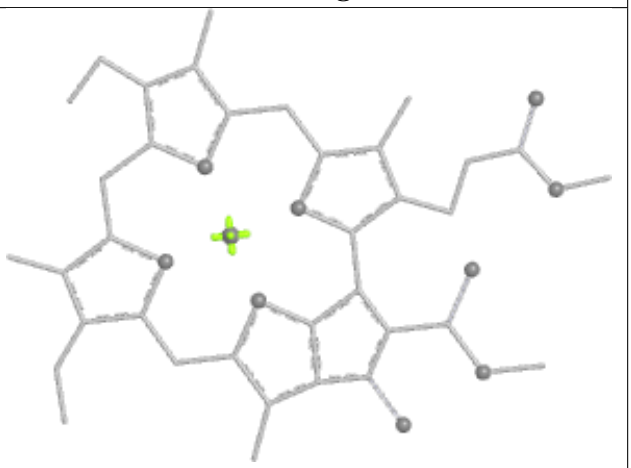
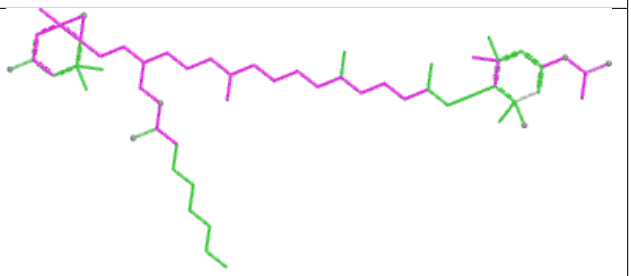


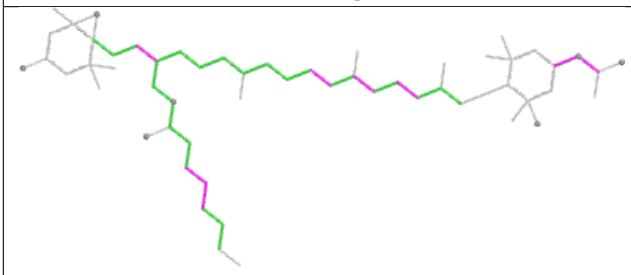
Rings

Ligand A1L1F h 204

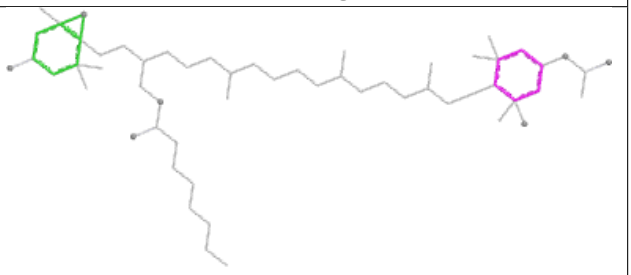
Bond lengths



Bond angles

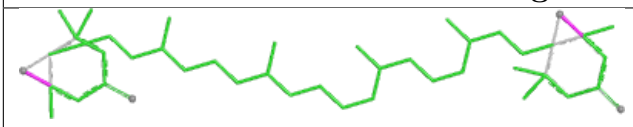


Torsions

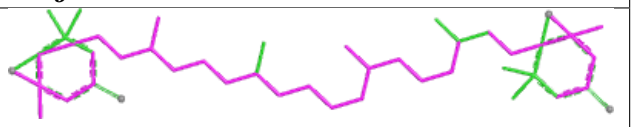


Rings

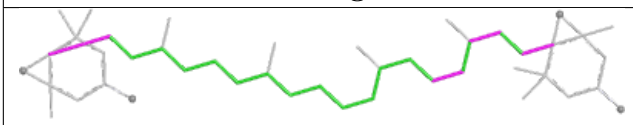
Ligand XAT j 101



Bond lengths



Bond angles



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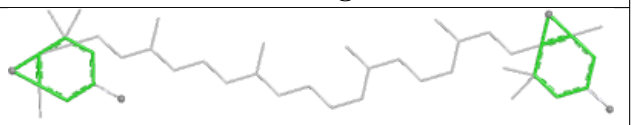
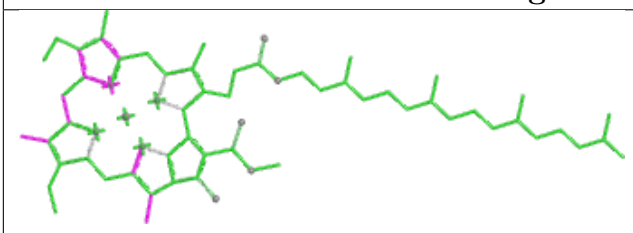
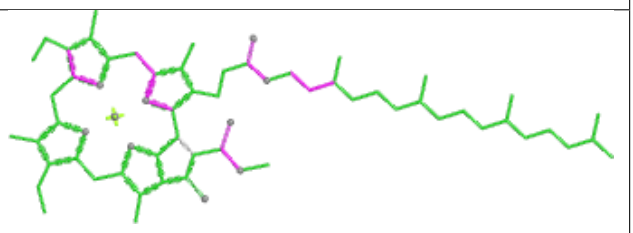


Rings

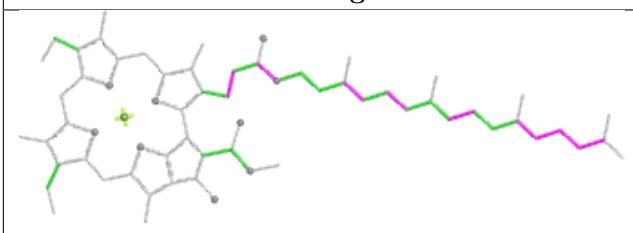
Ligand CLA a 830



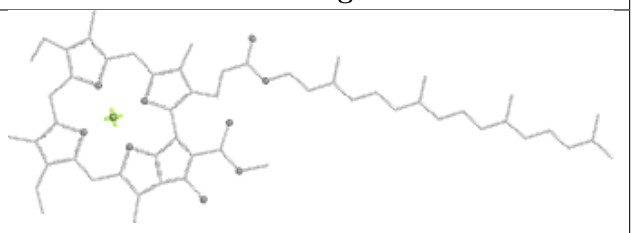
Bond lengths



Bond angles

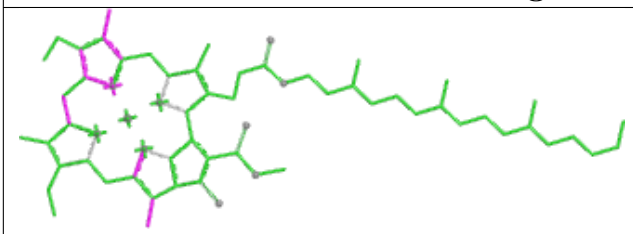


Torsions

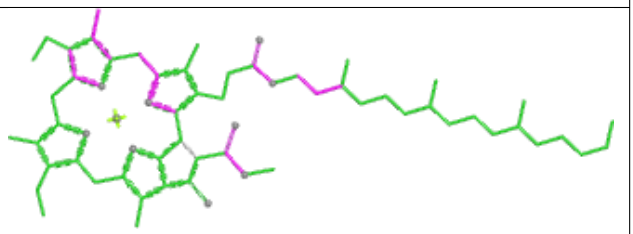


Rings

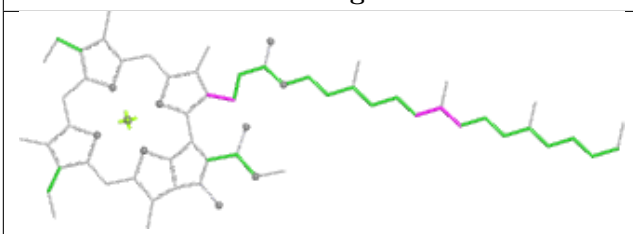
Ligand CLA b 825



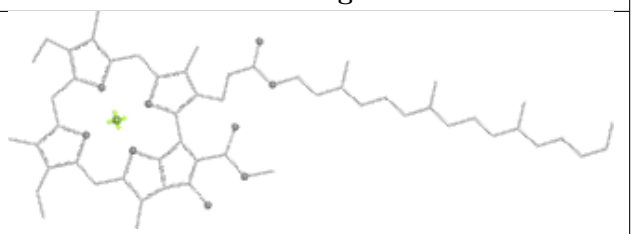
Bond lengths



Bond angles

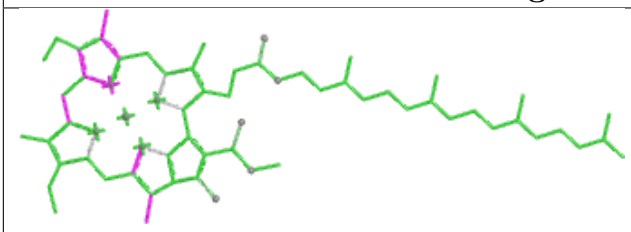


Torsions

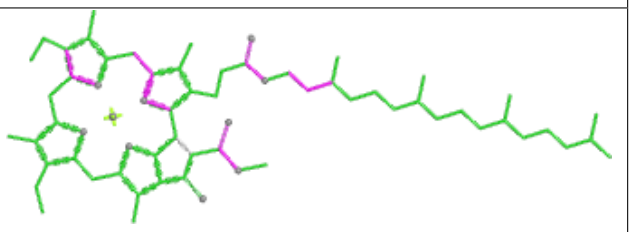


Rings

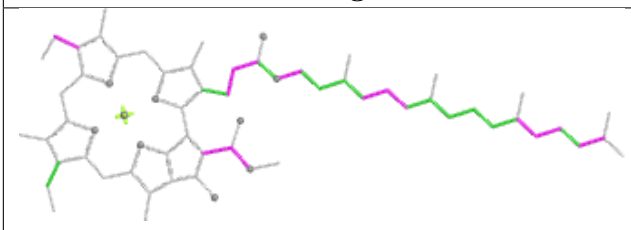
Ligand CLA a 810



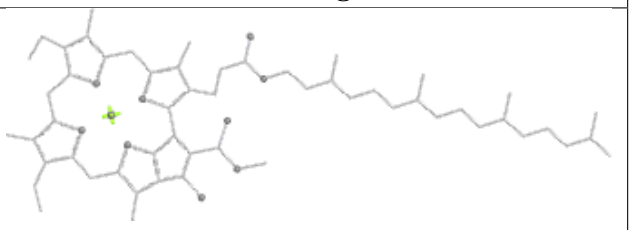
Bond lengths



Bond angles



Torsions

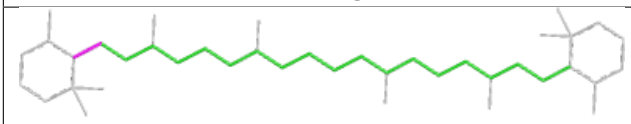


Rings

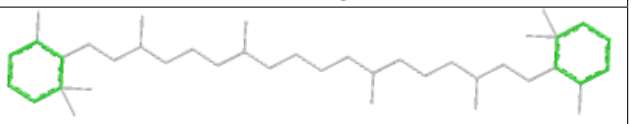
Ligand BCR b 843

Bond lengths

Bond angles

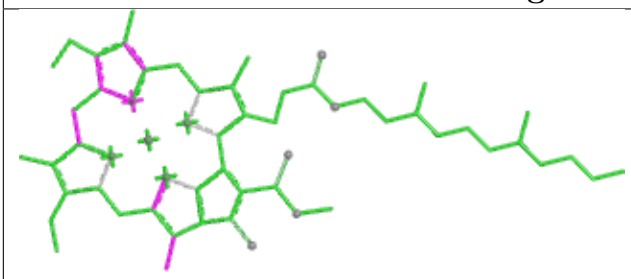


Torsions

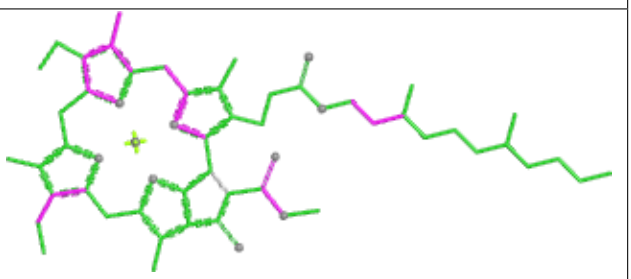


Rings

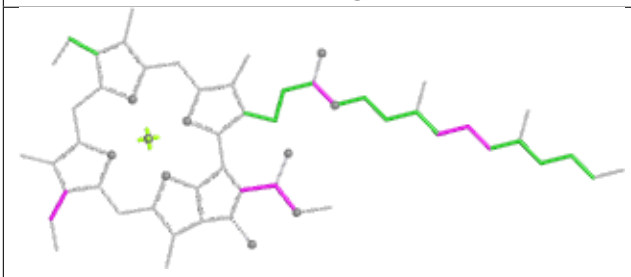
Ligand CLA b 835



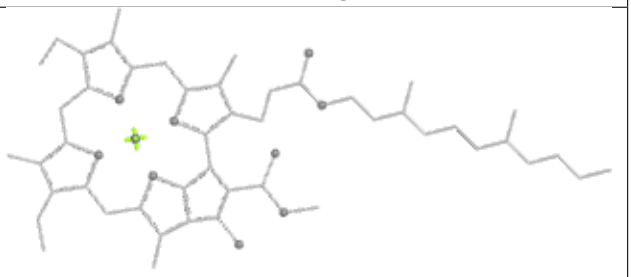
Bond lengths



Bond angles

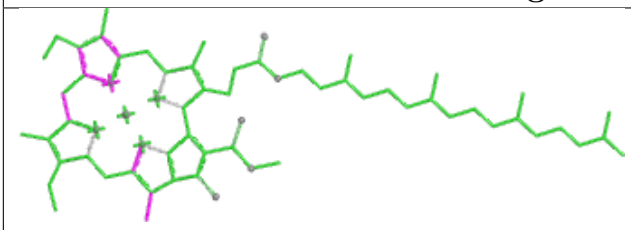


Torsions

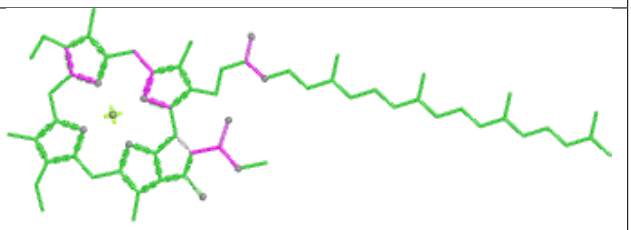


Rings

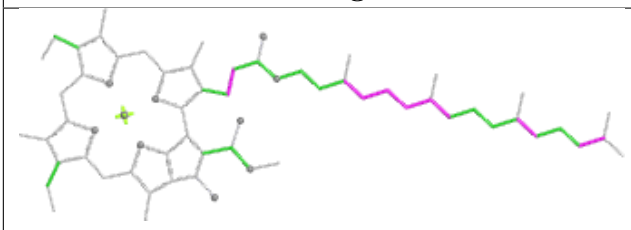
Ligand CLA b 808



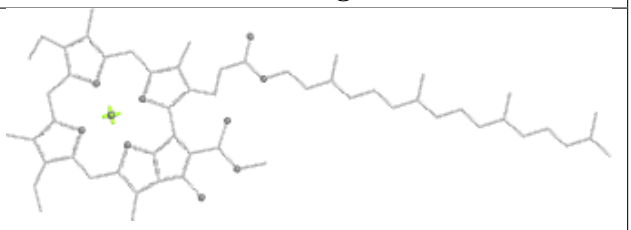
Bond lengths



Bond angles

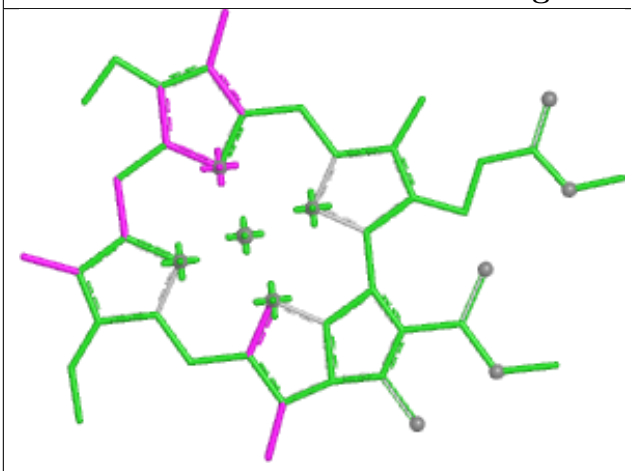


Torsions

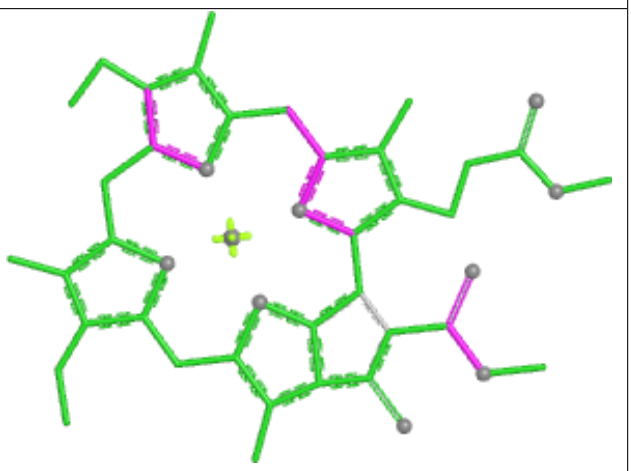


Rings

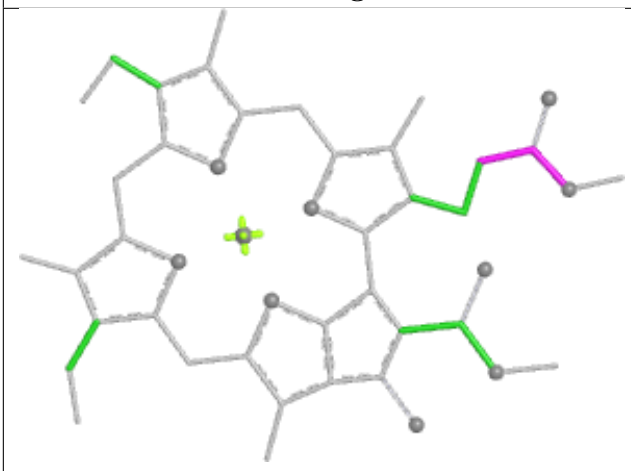
Ligand CLA l 204



Bond lengths



Bond angles



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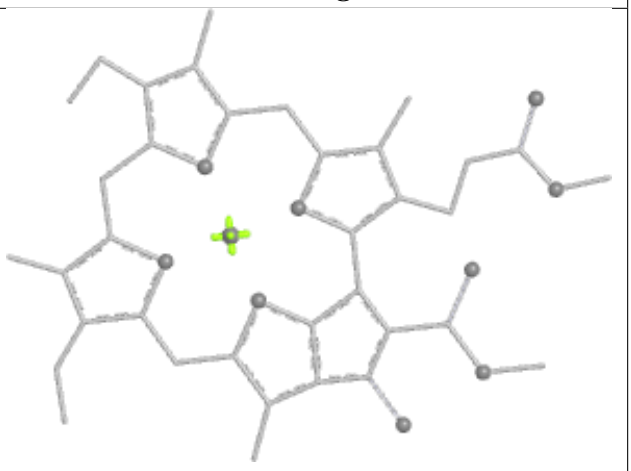
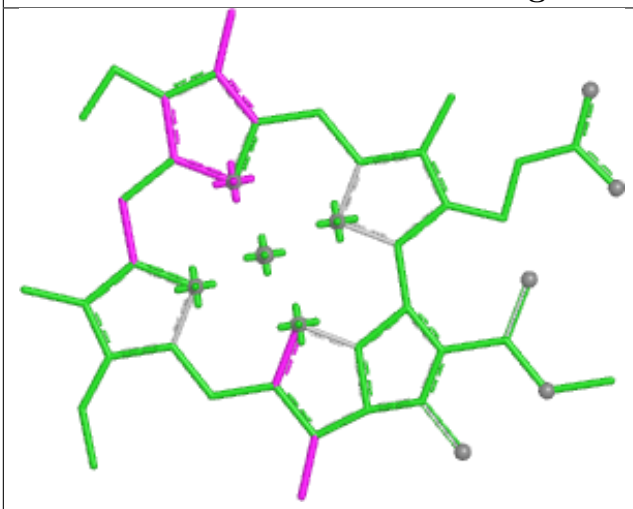
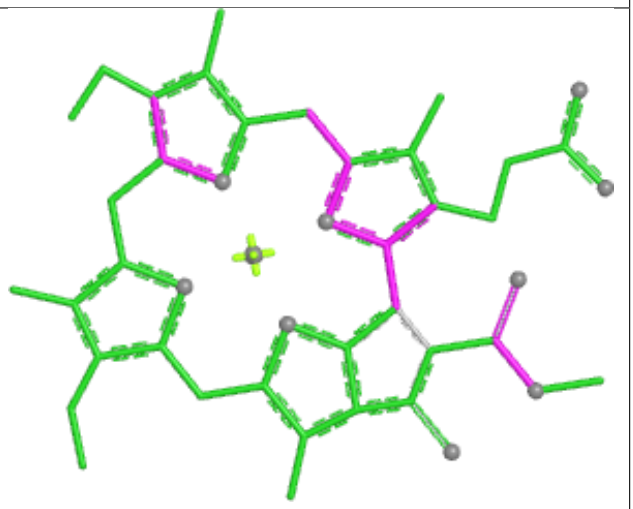


Rings

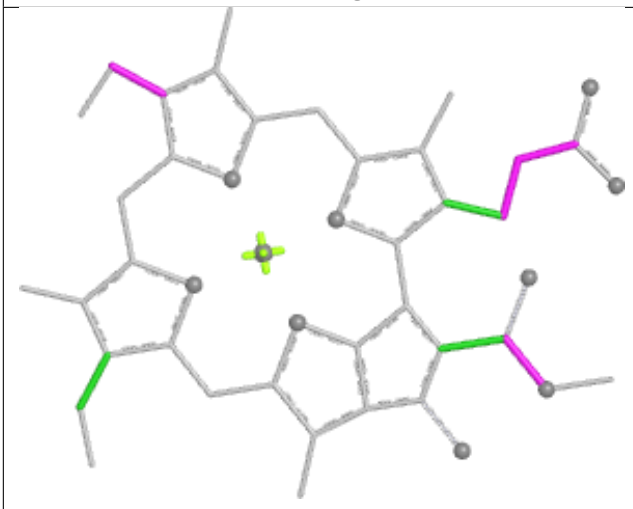
Ligand CLA 7 314



Bond lengths



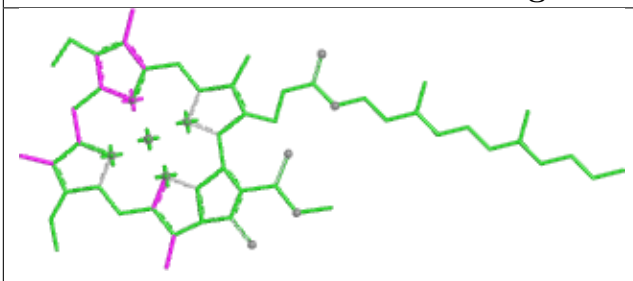
Bond angles



Torsions

Rings

Ligand CLA a 802



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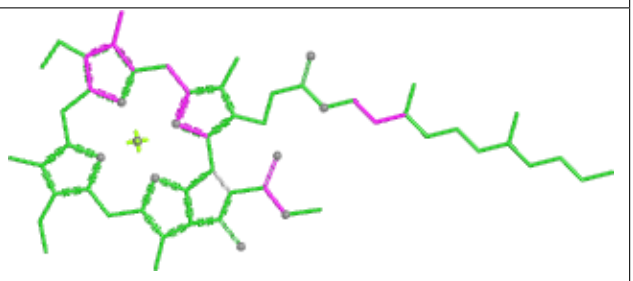
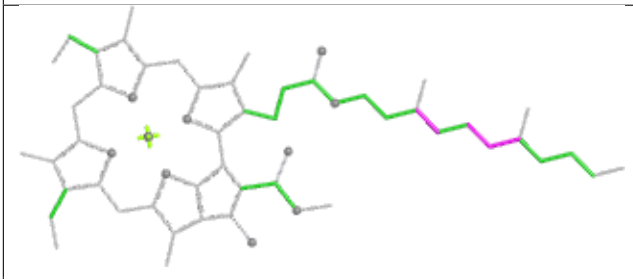
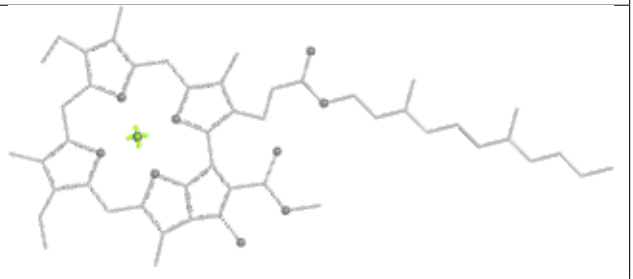


Bond angles

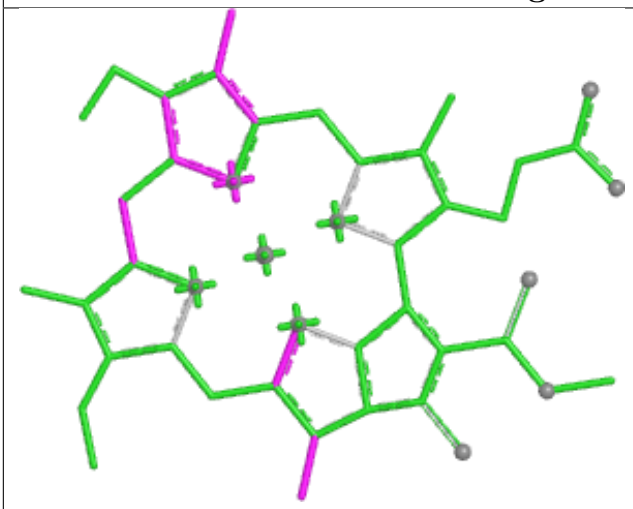


Torsions



Rings

Ligand CLA a 817



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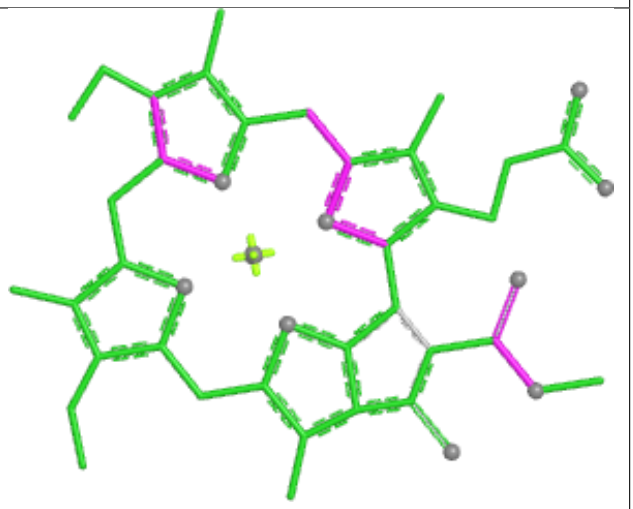

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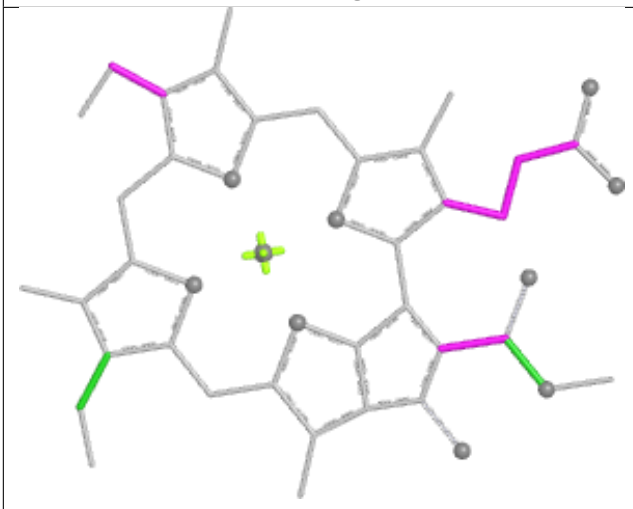
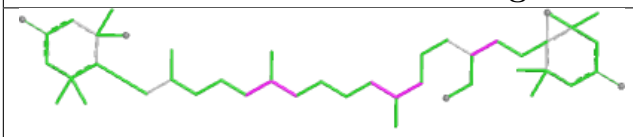


Torsions

Rings

Ligand A1L1G 1 301



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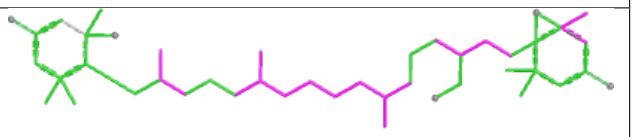
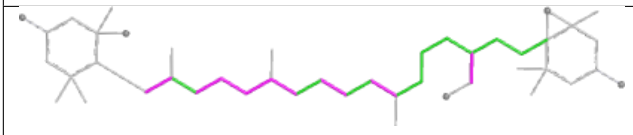
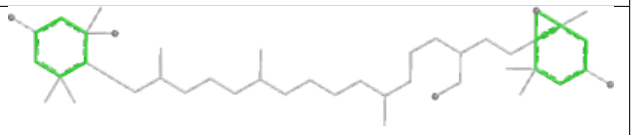


Bond angles

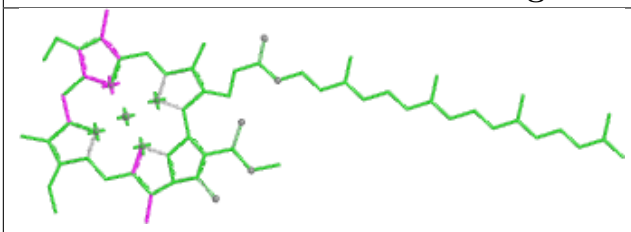


Torsions



Rings

Ligand CLA b 824



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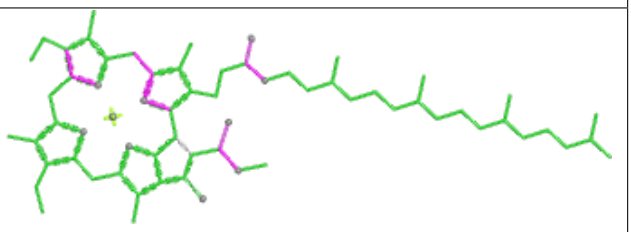
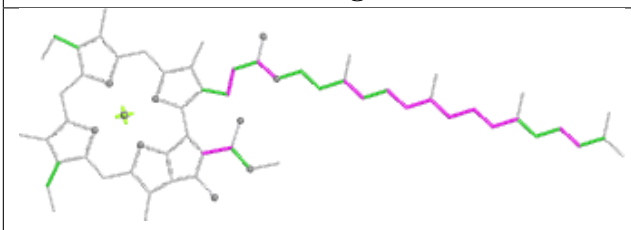


Bond angles



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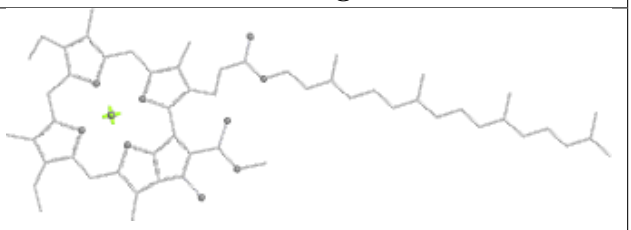
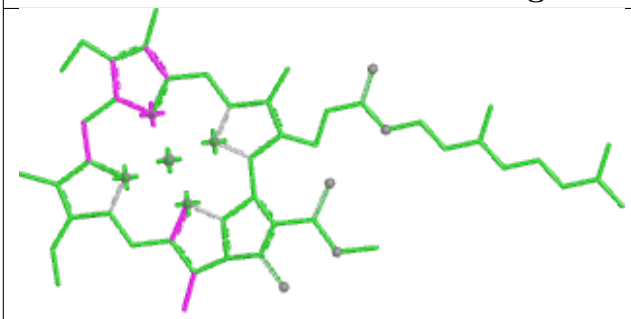


Rings

Ligand CLA b 816



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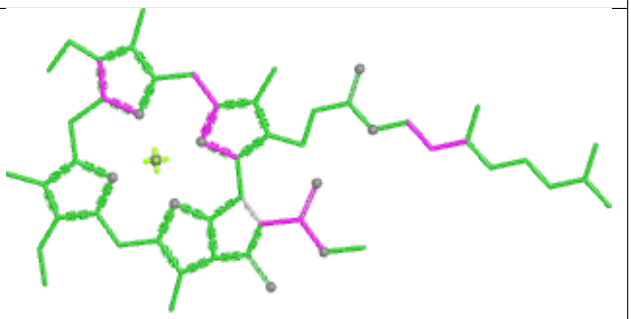
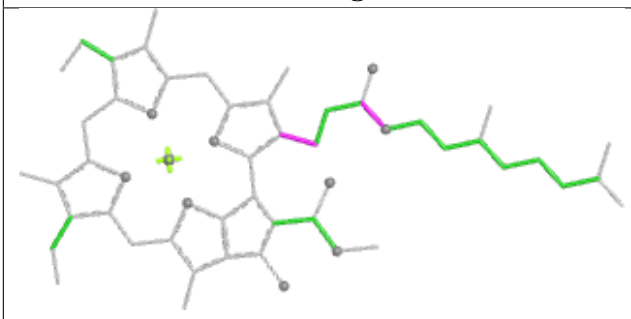


Bond angles



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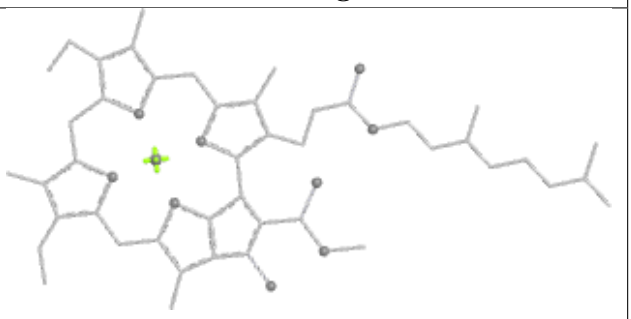
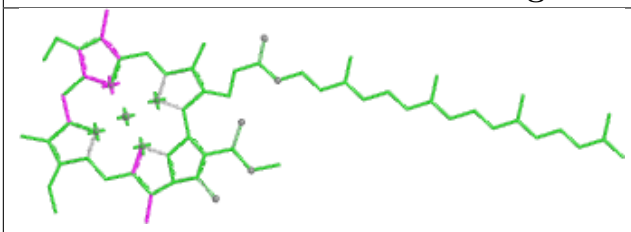
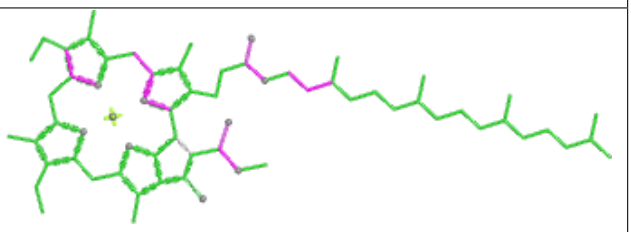


Rings

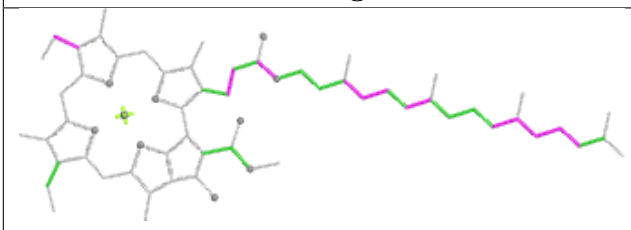
Ligand CLA b 838



Bond lengths



Bond angles



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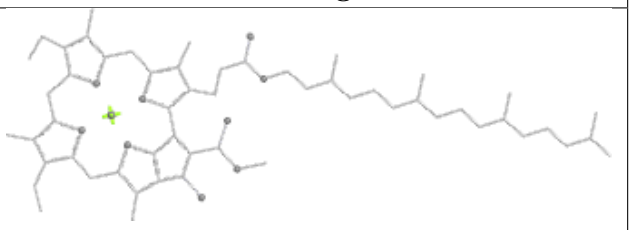
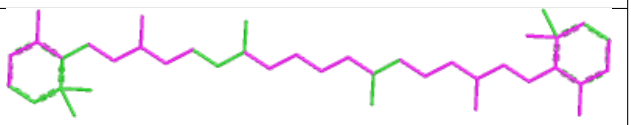


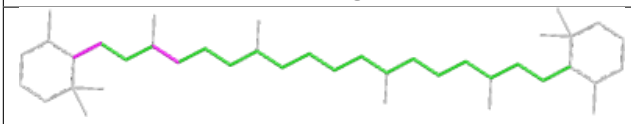
Rings

Ligand BCR l 201

Bond lengths



Bond angles



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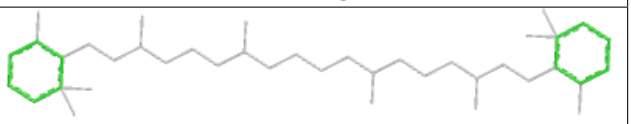
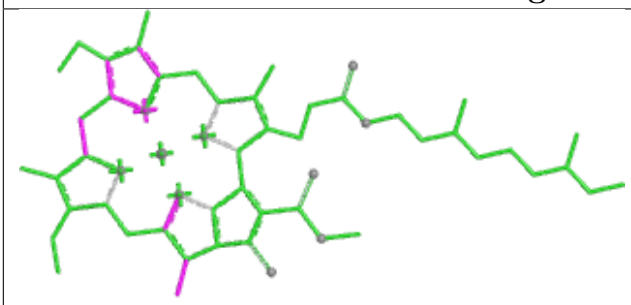
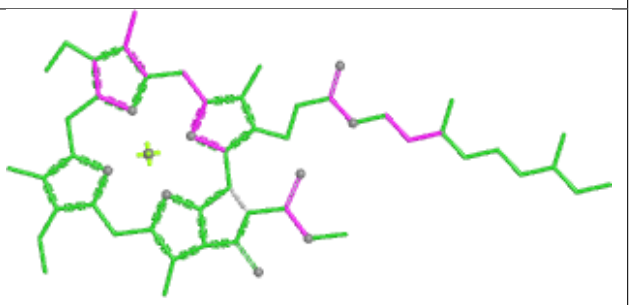


Rings

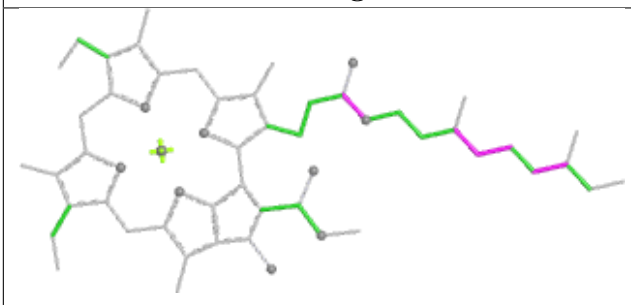
Ligand CLA 8 311



Bond lengths



Bond angles



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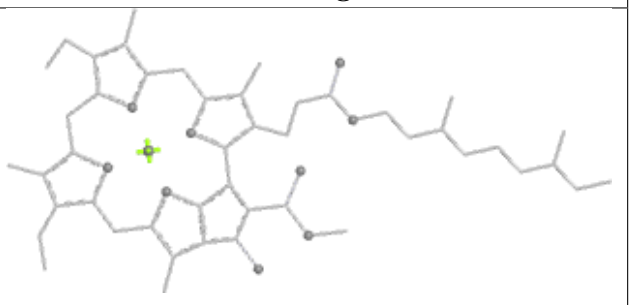
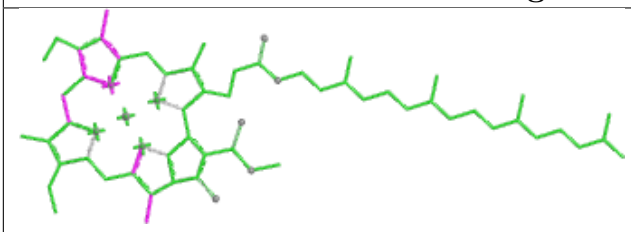
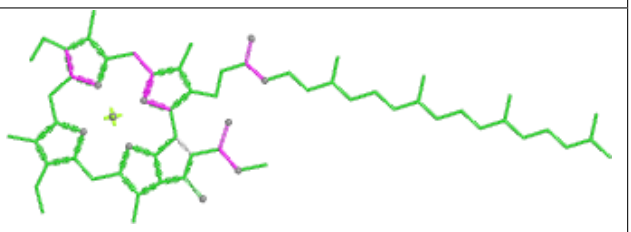


Rings

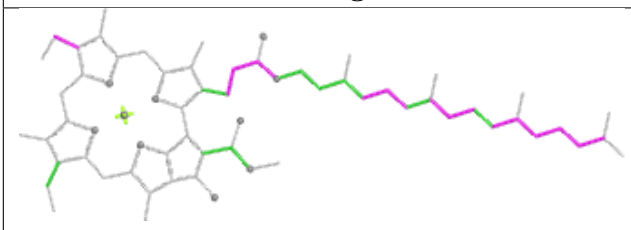
Ligand CLA b 801



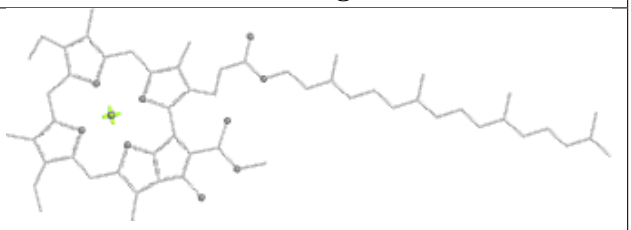
Bond lengths



Bond angles

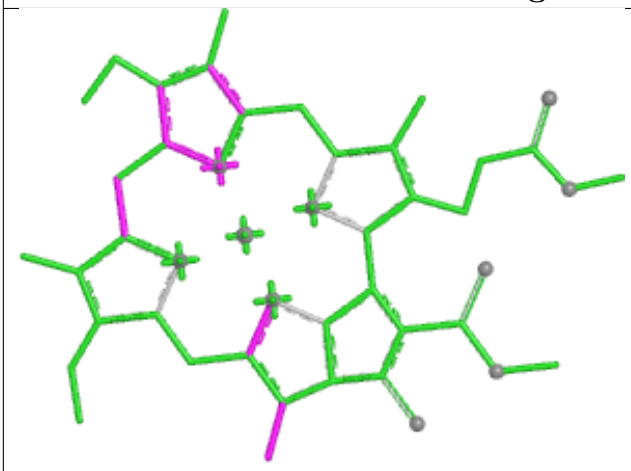


Torsions

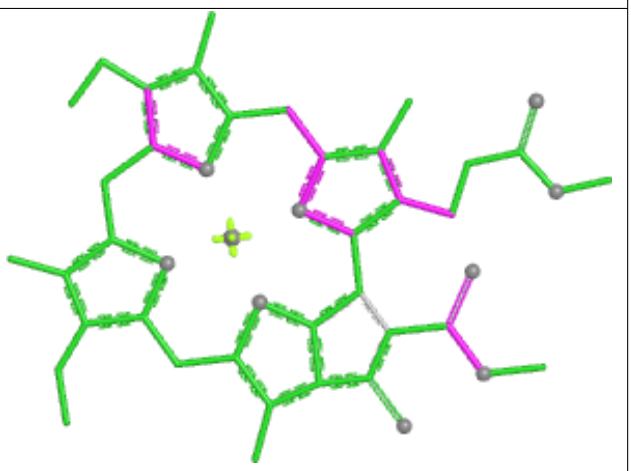


Rings

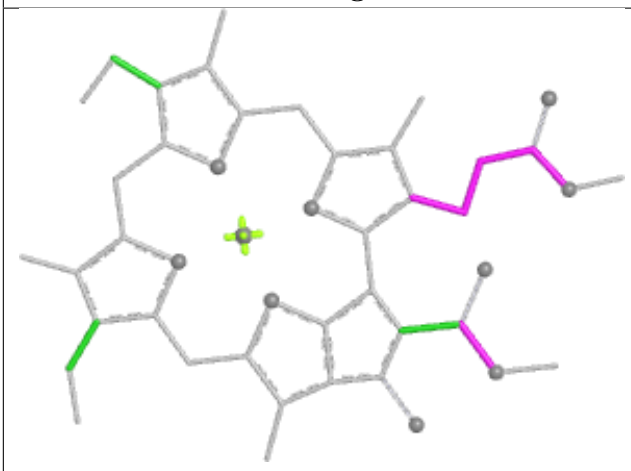
Ligand CLA 9 312



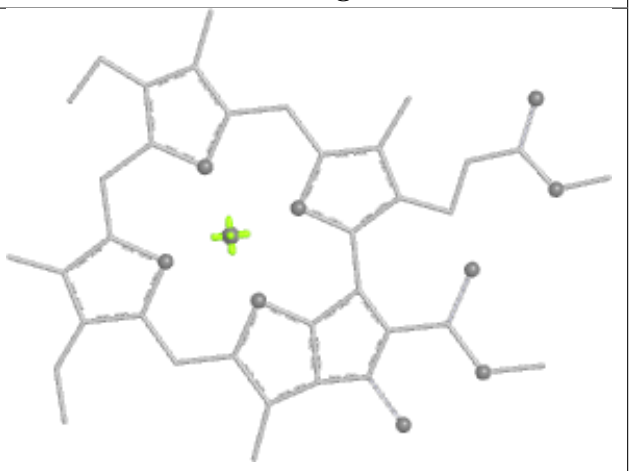
Bond lengths



Bond angles

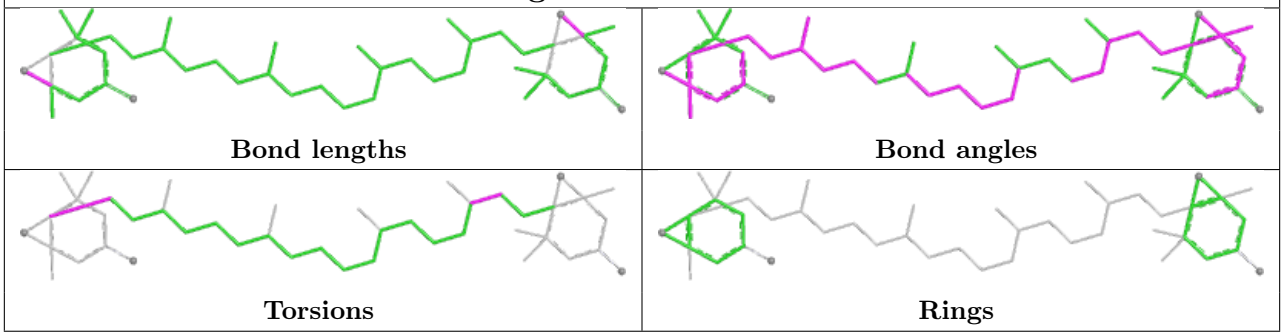


Torsions

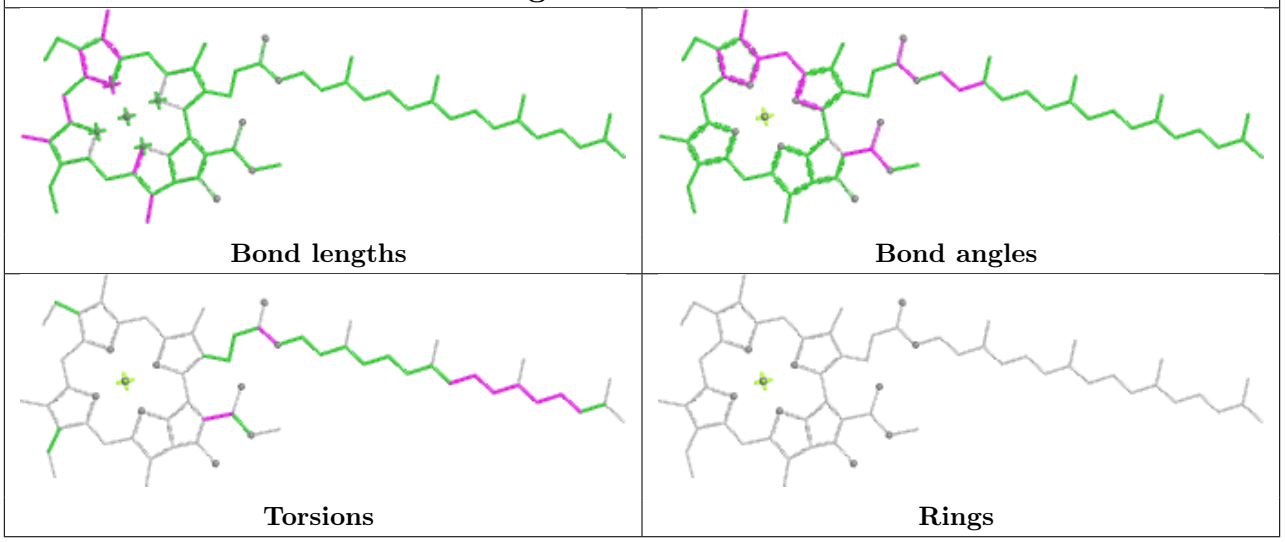


Rings

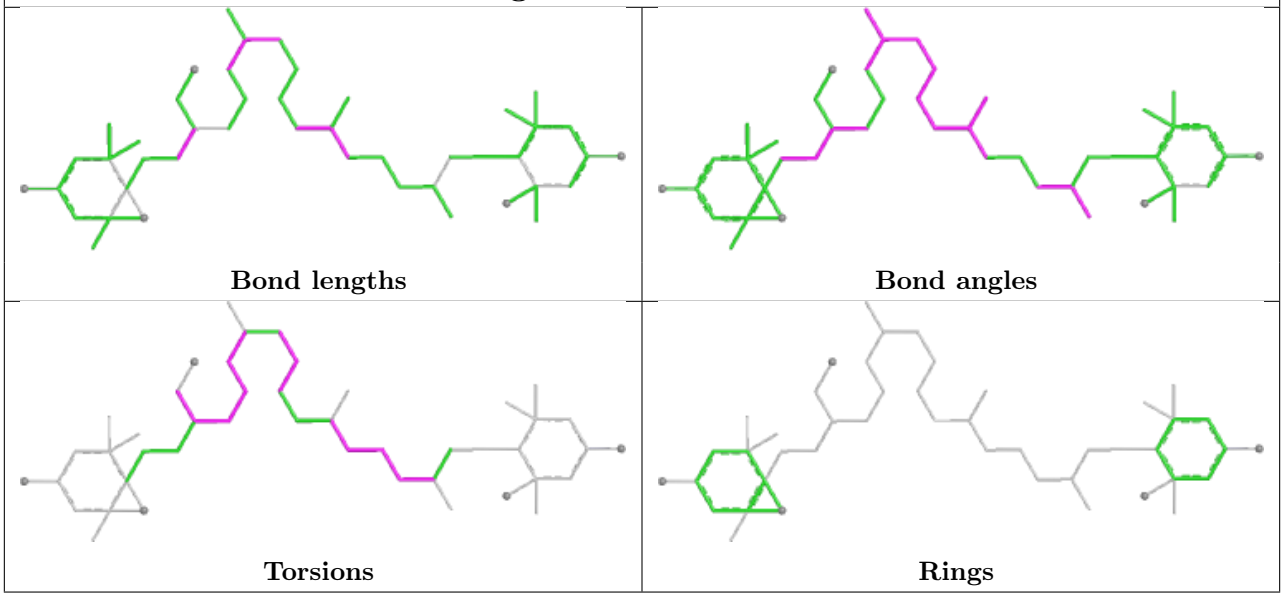
Ligand XAT 8 301



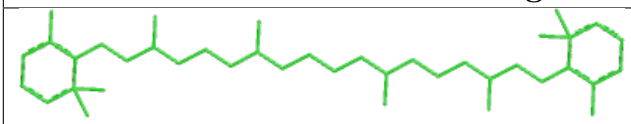
Ligand CLA b 829



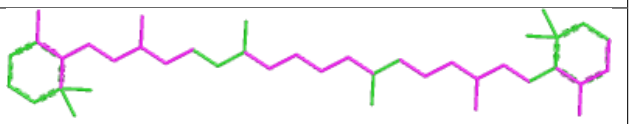
Ligand A1L1G 9 301



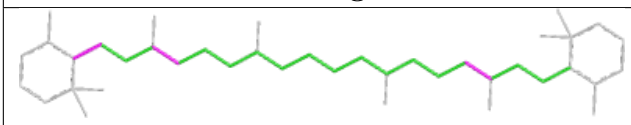
Ligand BCR b 844



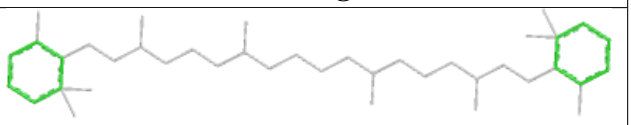
Bond lengths



Bond angles

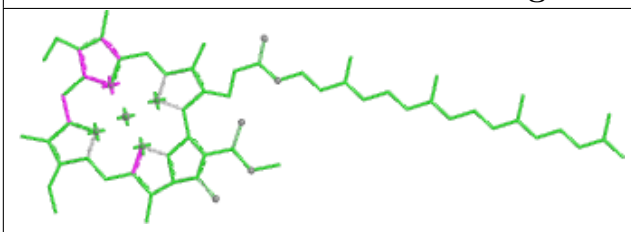


Torsions



Rings

Ligand CLA a 844



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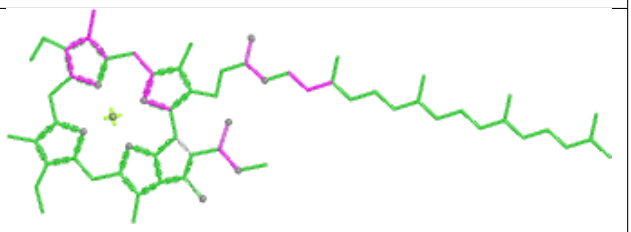
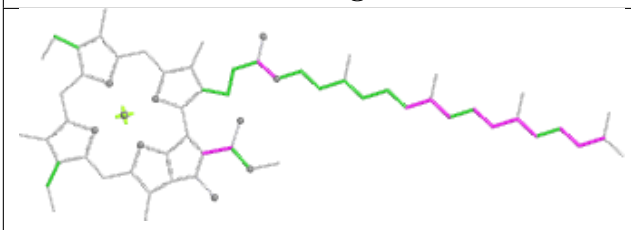
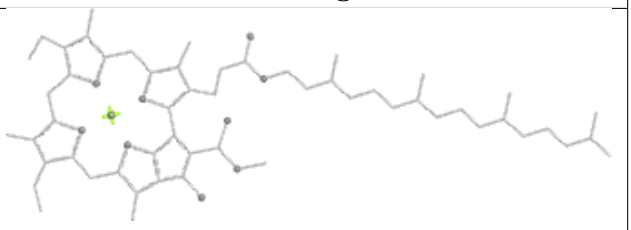


Bond angles

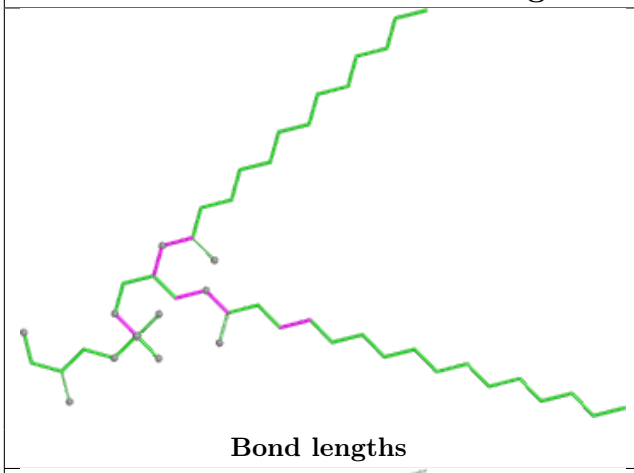


Torsions



Rings

Ligand LHG 9 317



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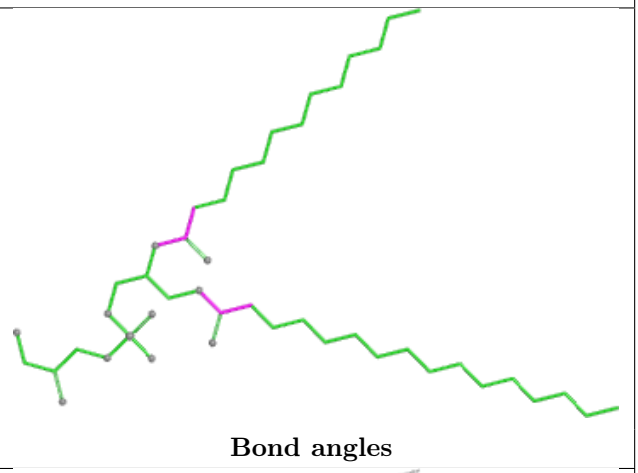
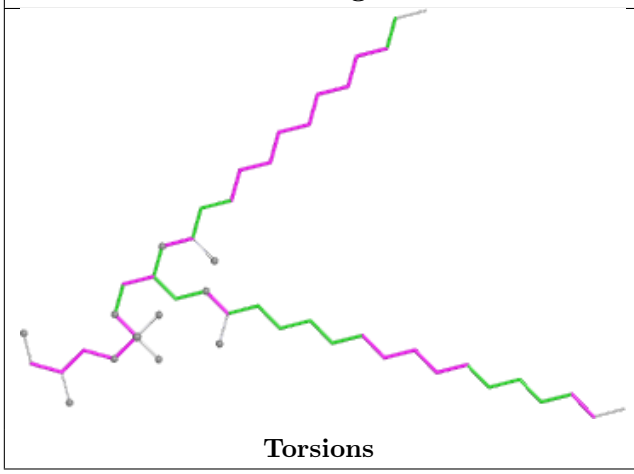
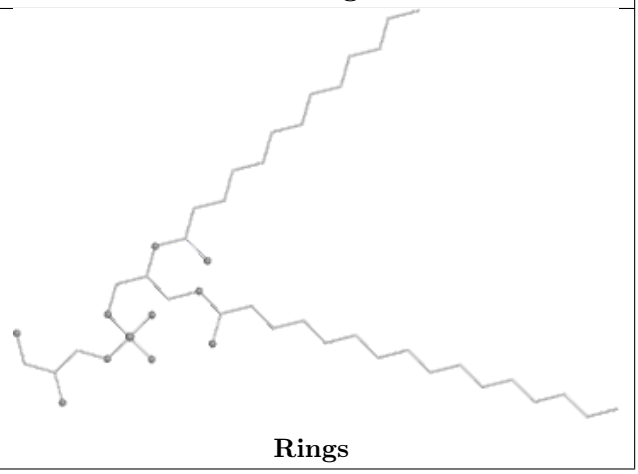


Bond angles

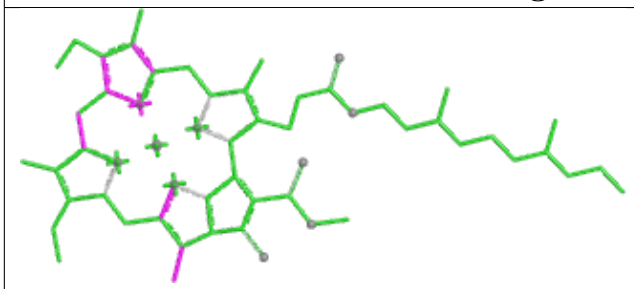


Torsions



Rings

Ligand CLA 8 309



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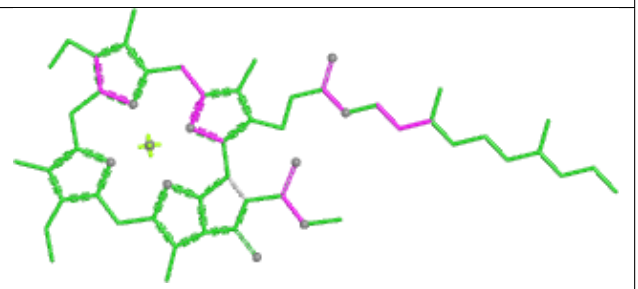
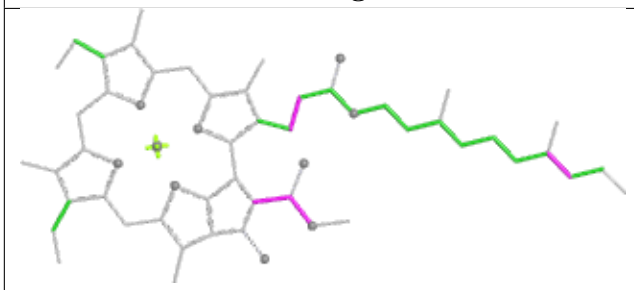
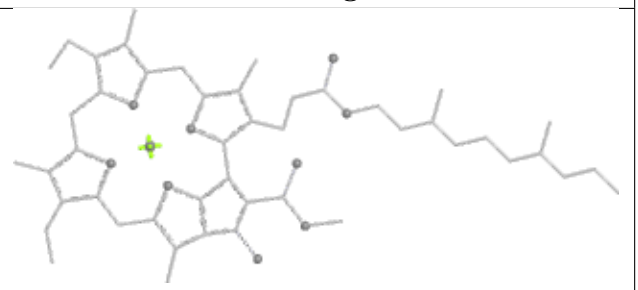


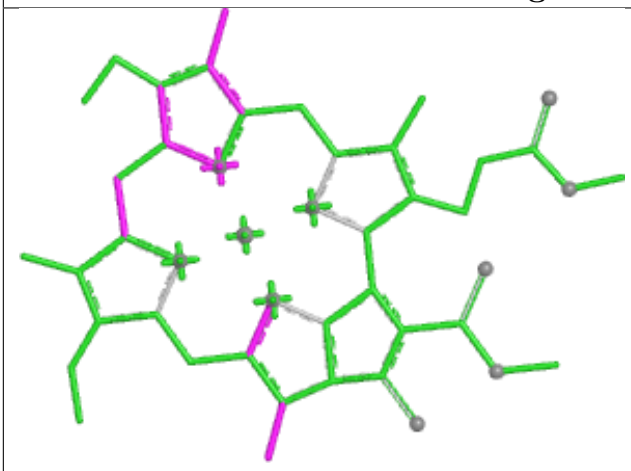
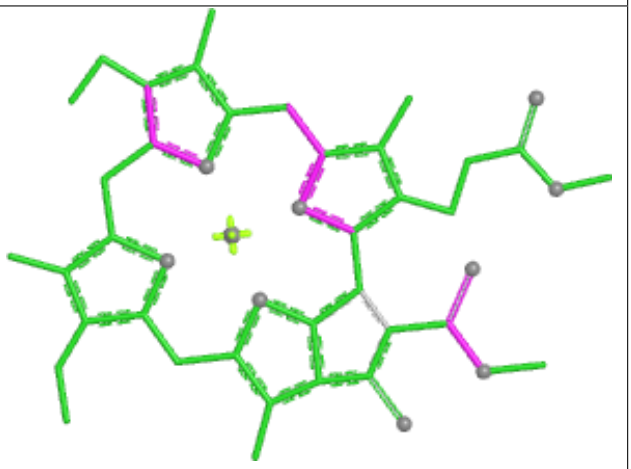
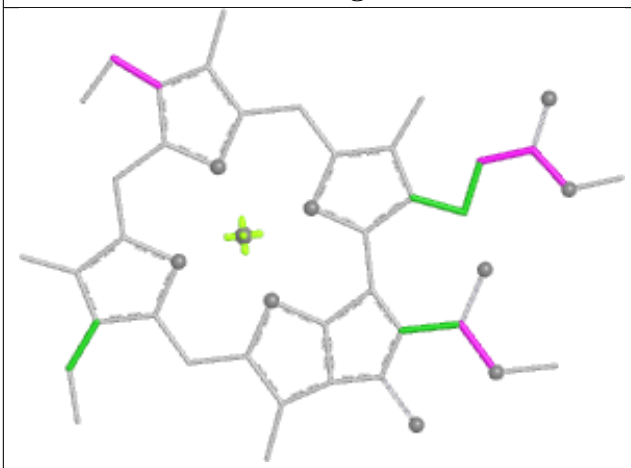
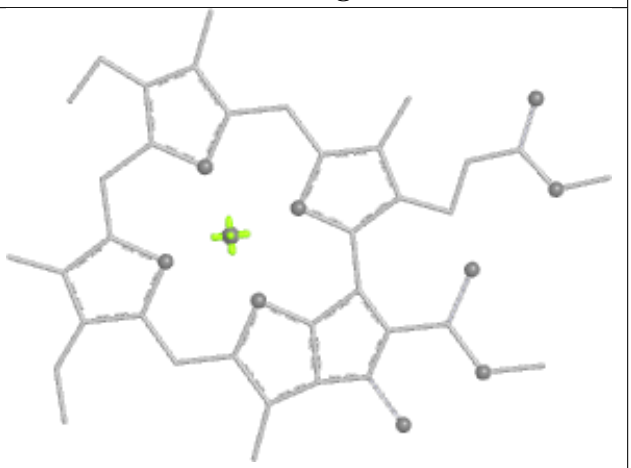
Bond angles

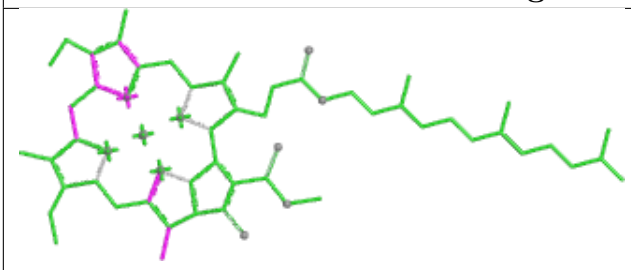
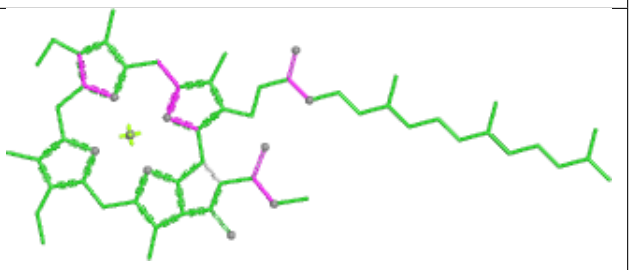
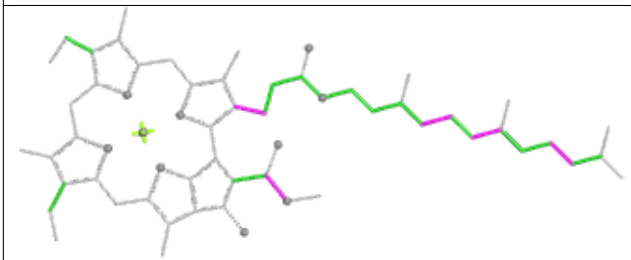
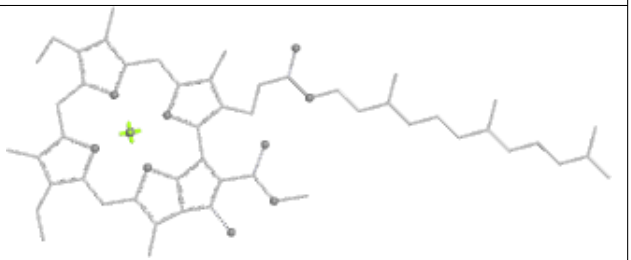


Torsions

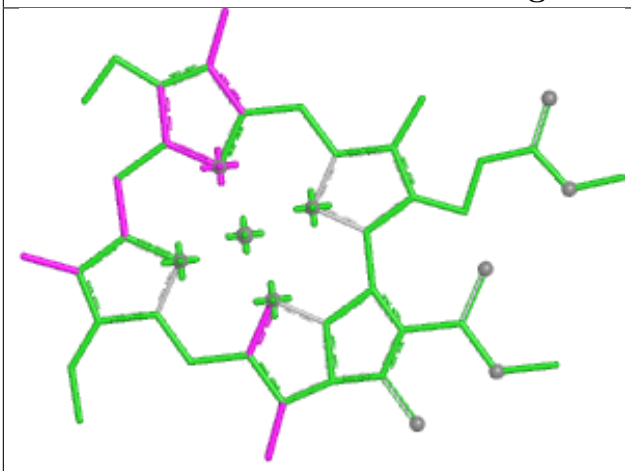


Rings

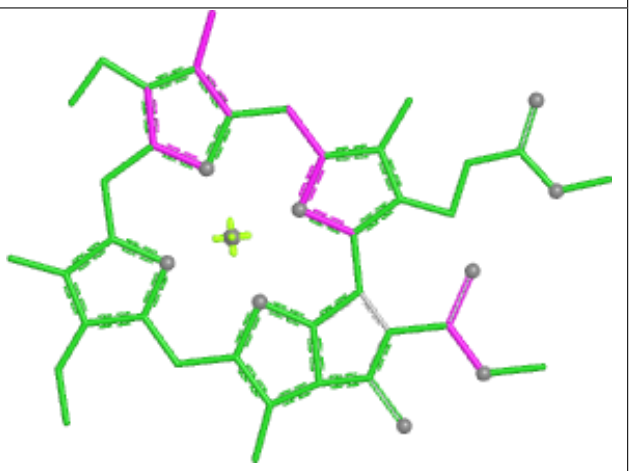
Ligand CLA 1 309	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA b 822	
	
Bond lengths	Bond angles
	
Torsions	Rings

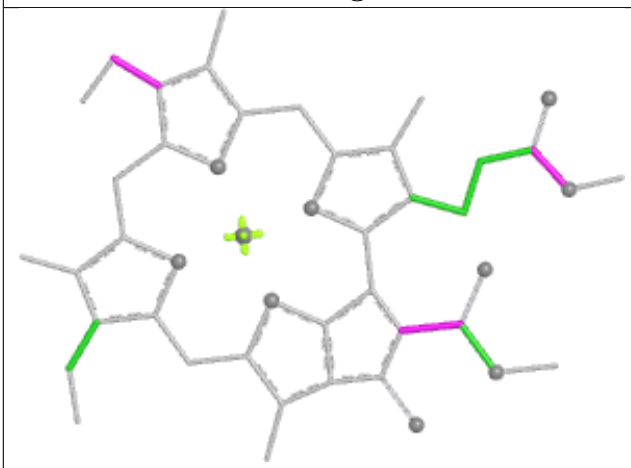
Ligand CLA 9 309



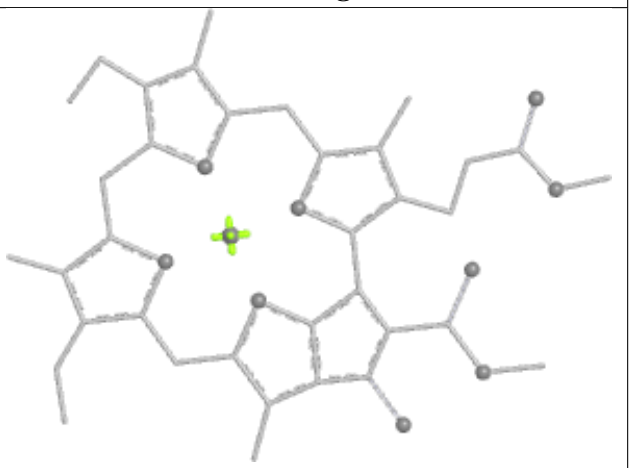
Bond lengths



Bond angles

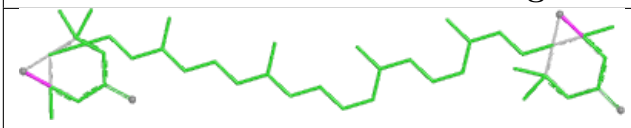


Torsions

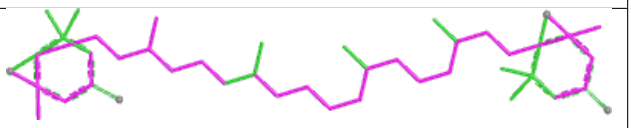


Rings

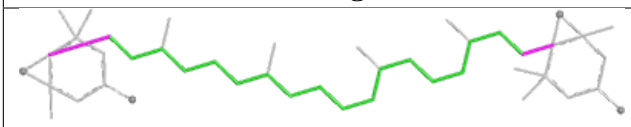
Ligand XAT 7 305



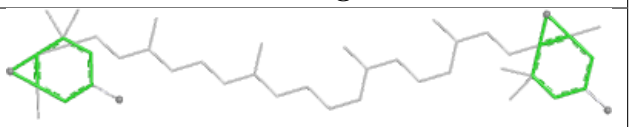
Bond lengths



Bond angles

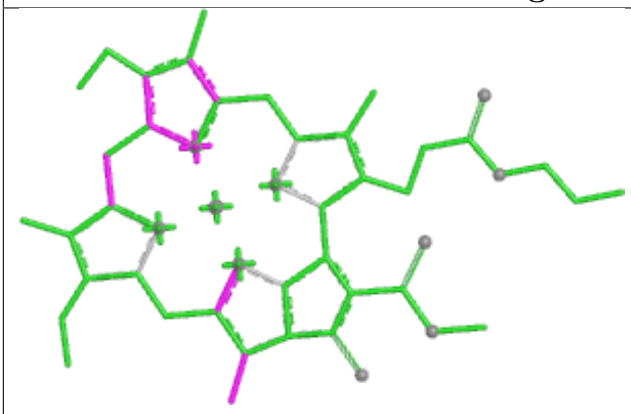


Torsions

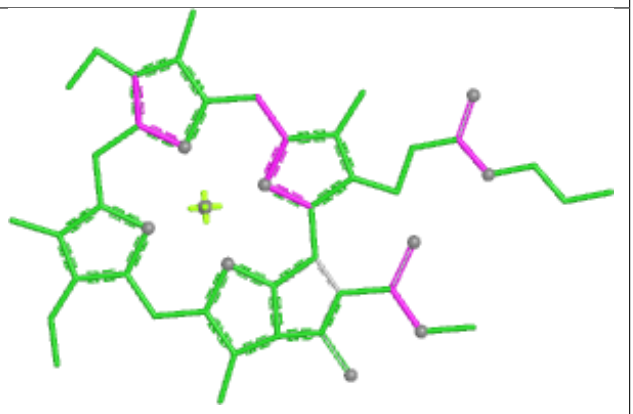


Rings

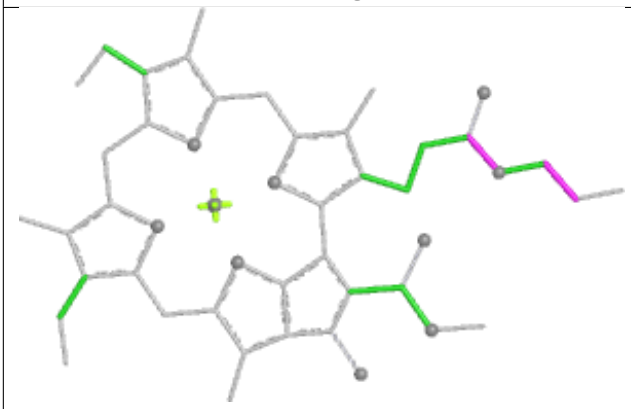
Ligand CLA 7 312



Bond lengths



Bond angles



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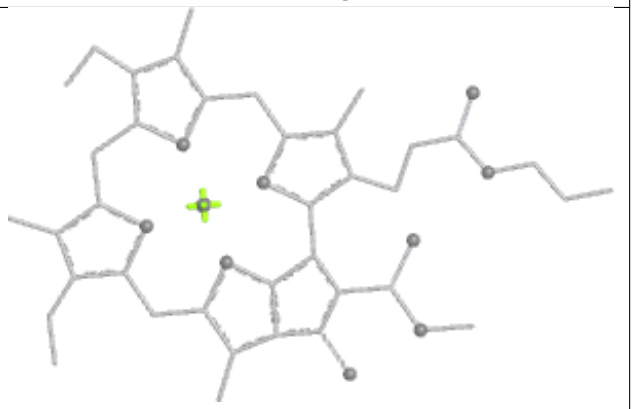
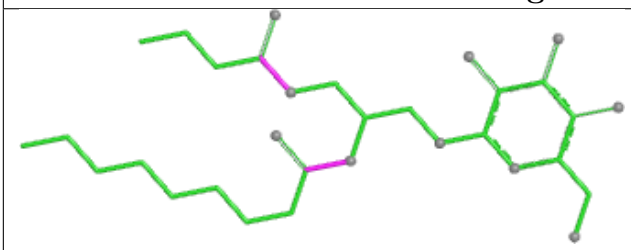
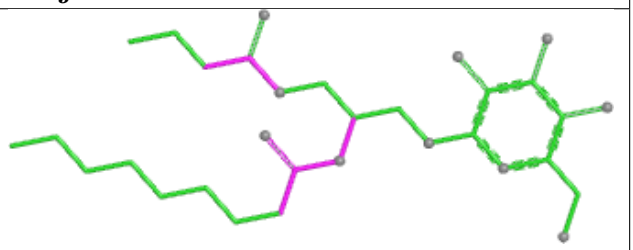


Rings

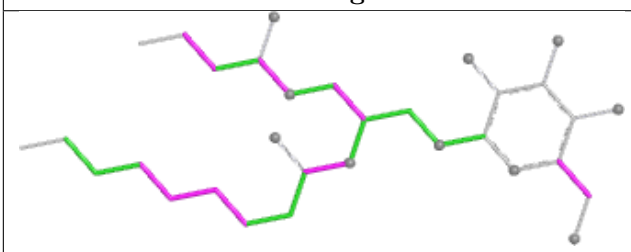
Ligand LMG j 105



Bond lengths



Bond angles



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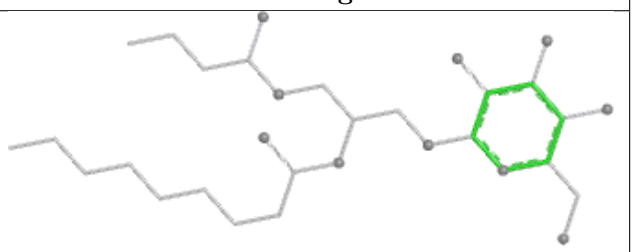
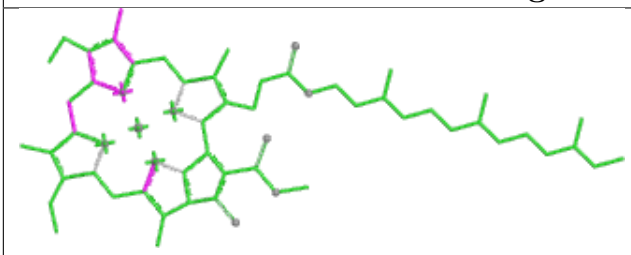
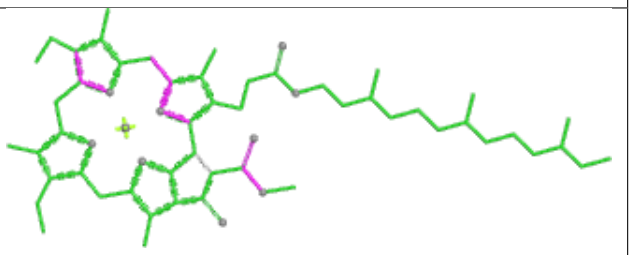
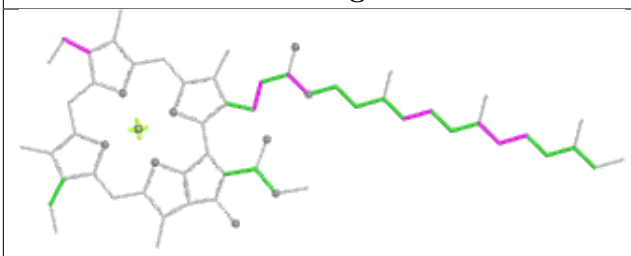
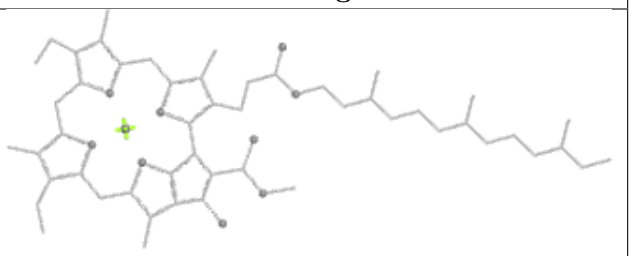
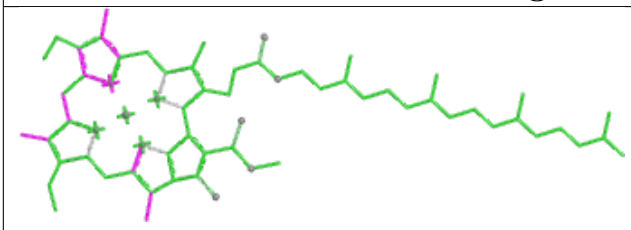
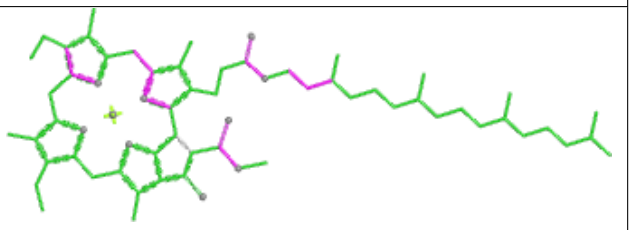
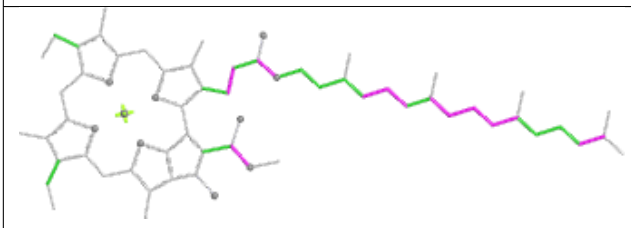
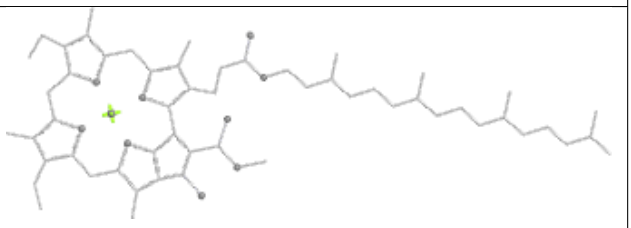
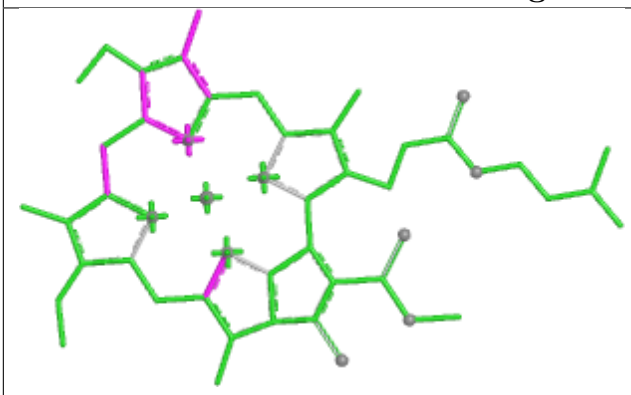


Rings

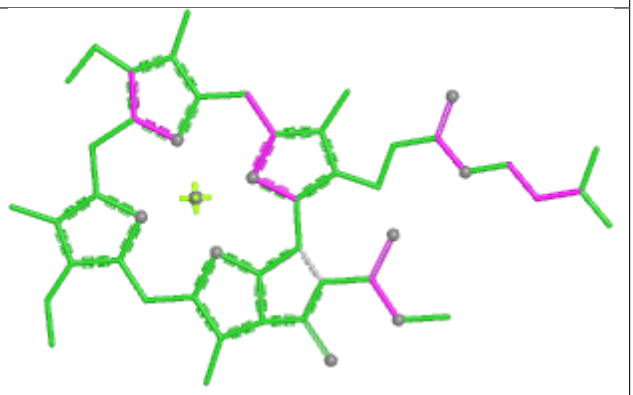
Ligand CLA 1 305	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 9 308	
 Bond lengths	 Bond angles
 Torsions	 Rings

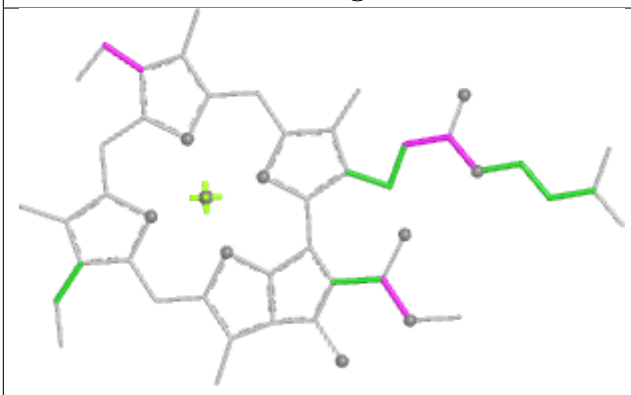
Ligand CLA a 836



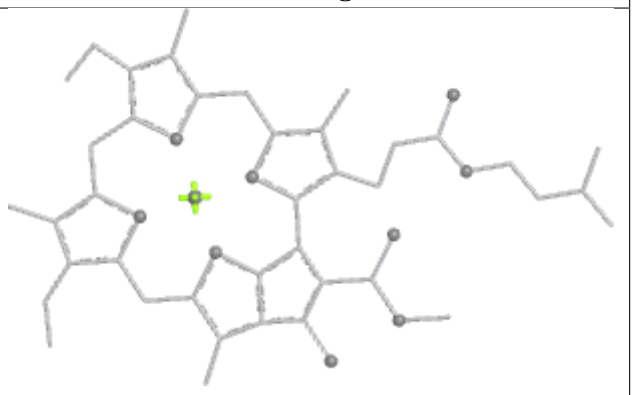
Bond lengths



Bond angles

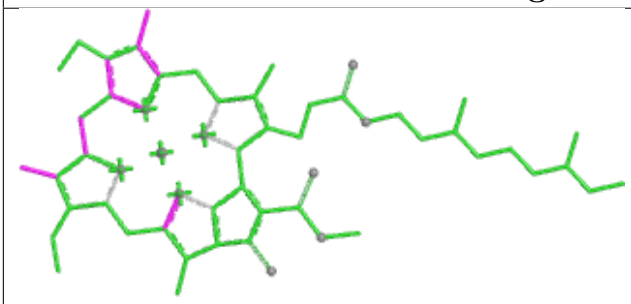


Torsions

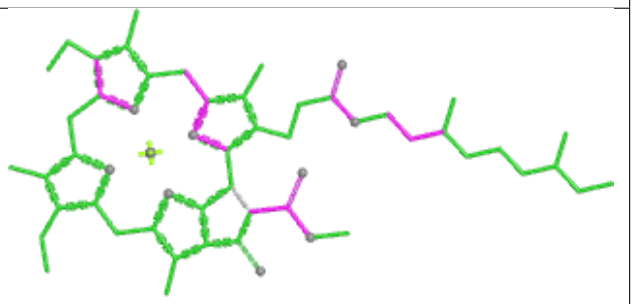


Rings

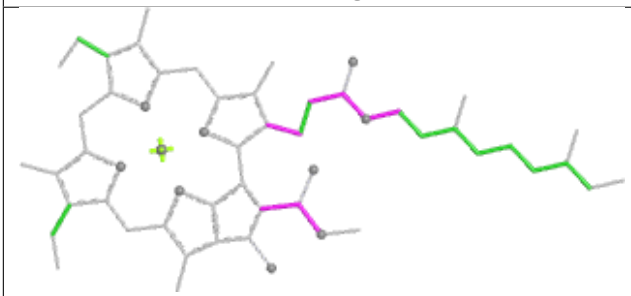
Ligand CLA a 818



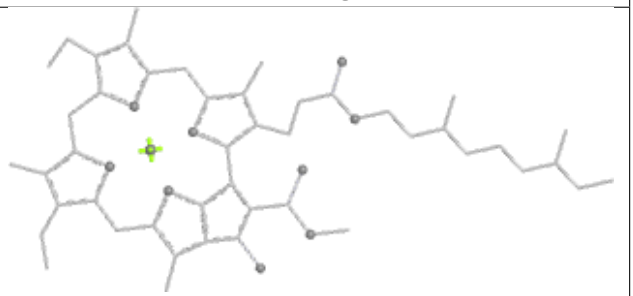
Bond lengths



Bond angles

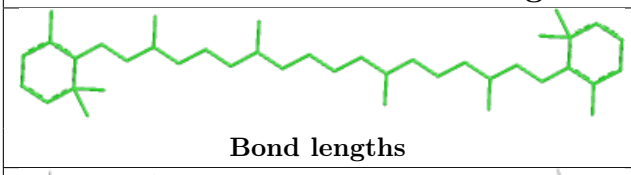


Torsions

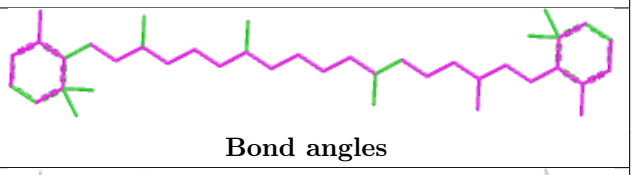


Rings

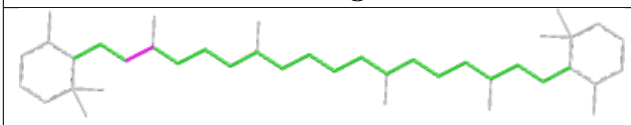
Ligand BCR b 842



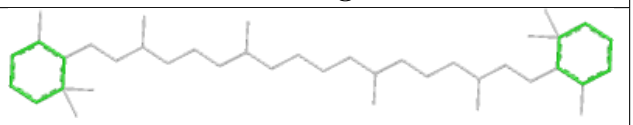
Bond lengths



Bond angles

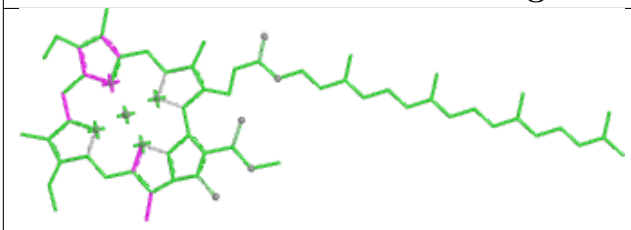


Torsions

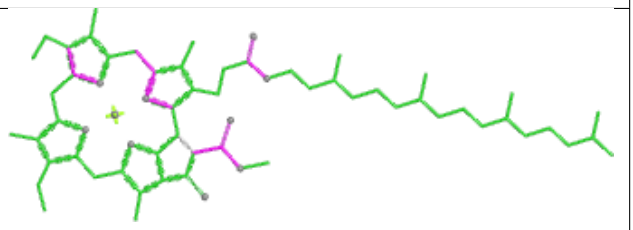


Rings

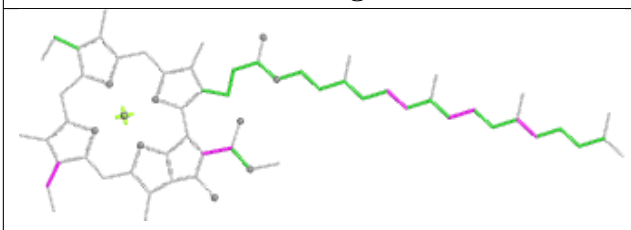
Ligand CLA b 836



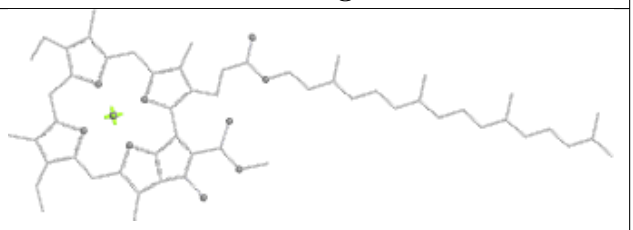
Bond lengths



Bond angles

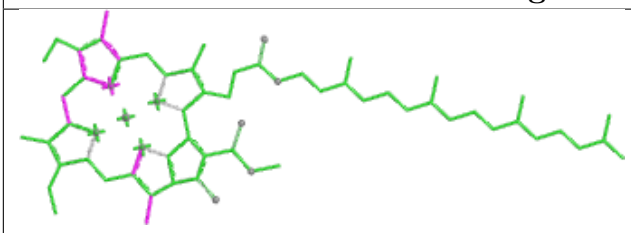


Torsions

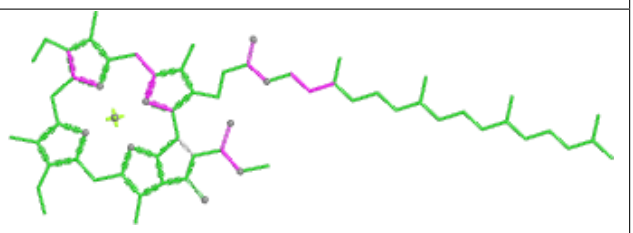


Rings

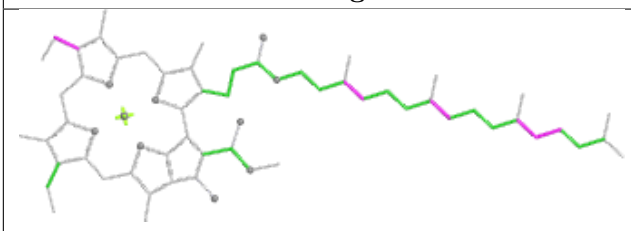
Ligand CLA a 840



Bond lengths



Bond angles



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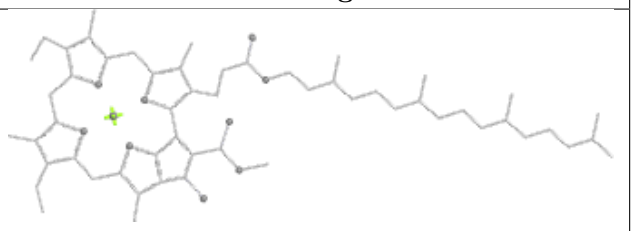
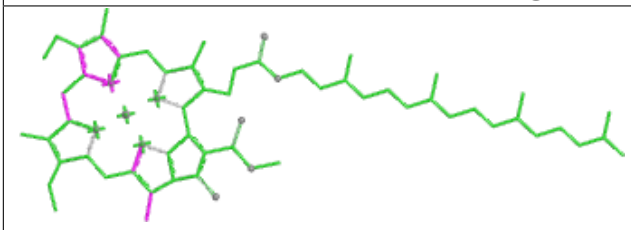
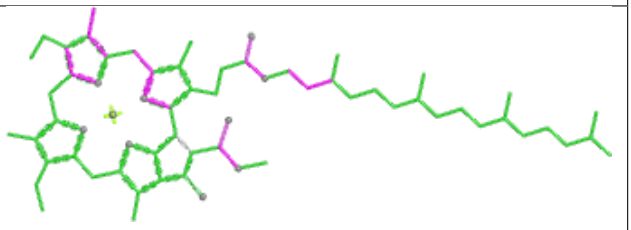


Rings

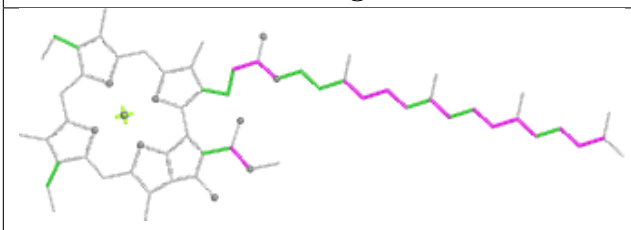
Ligand CLA b 807



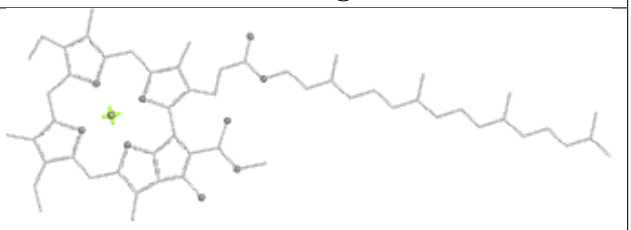
Bond lengths



Bond angles

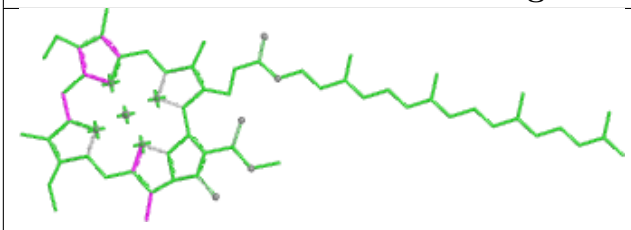


Torsions

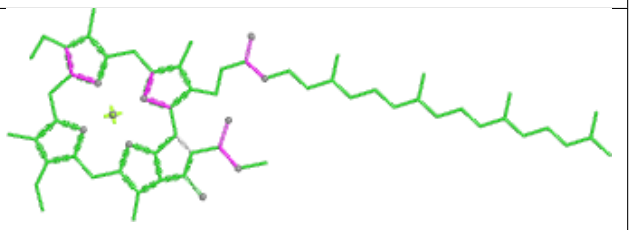


Rings

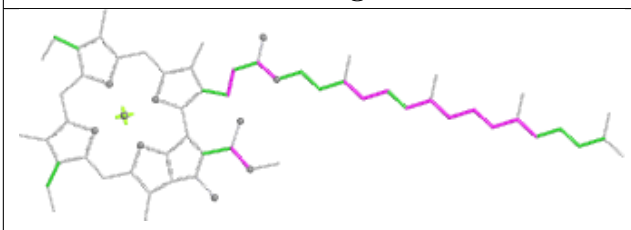
Ligand CLA b 802



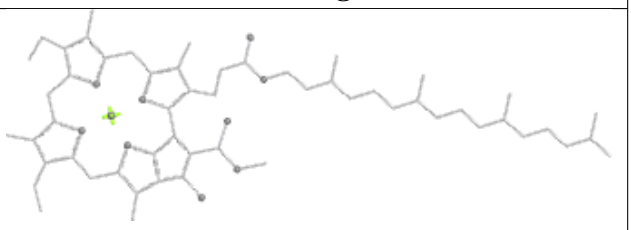
Bond lengths



Bond angles

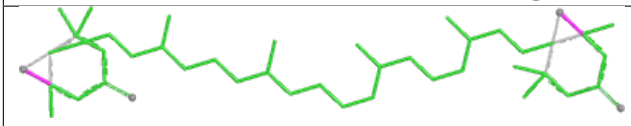


Torsions

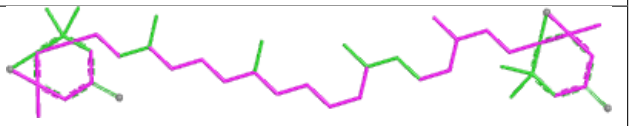


Rings

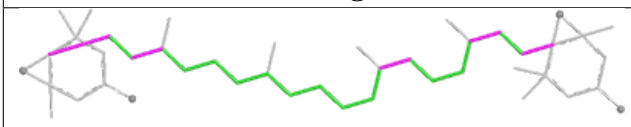
Ligand XAT 7 303



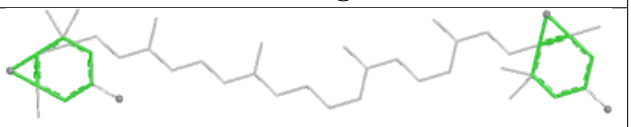
Bond lengths



Bond angles

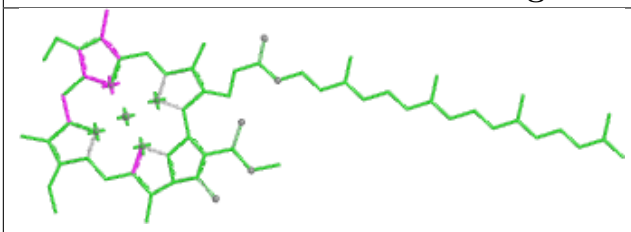


Torsions

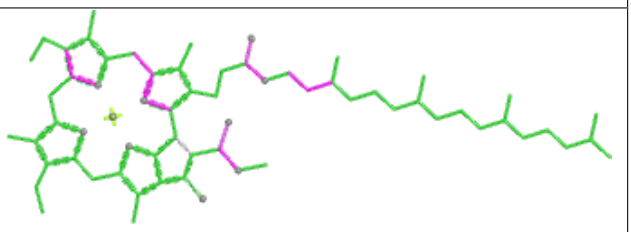


Rings

Ligand CLA b 840



Bond lengths



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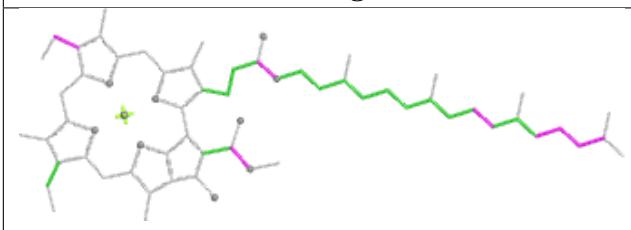

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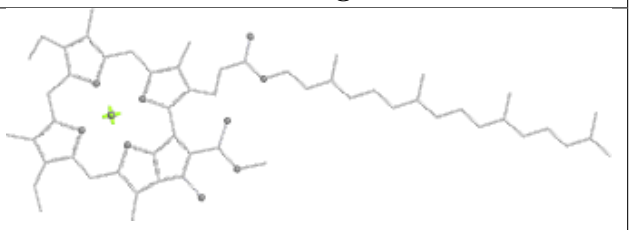
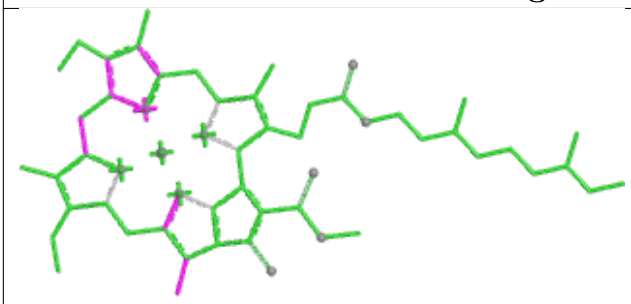


Rings

Ligand CLA a 811



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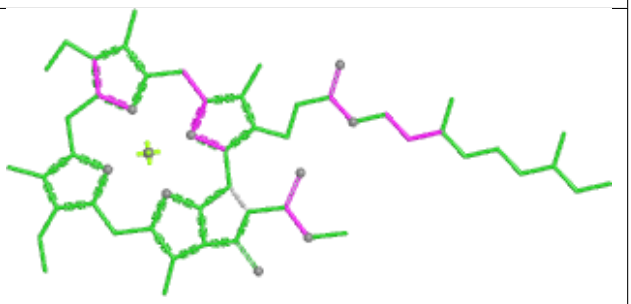
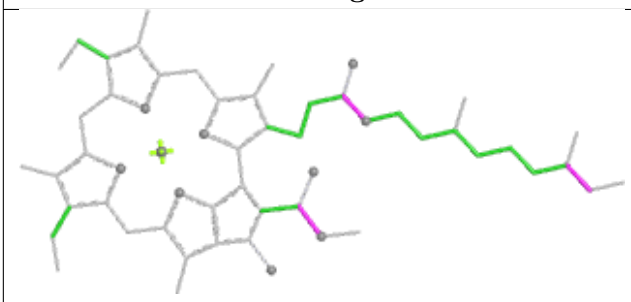
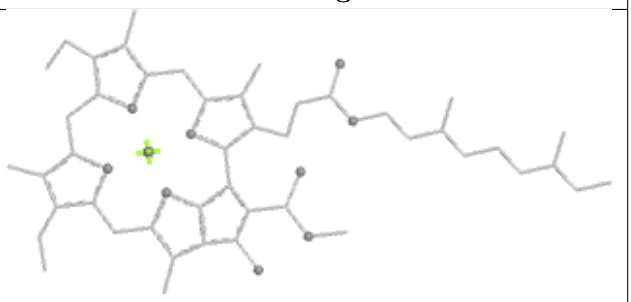


Bond angles

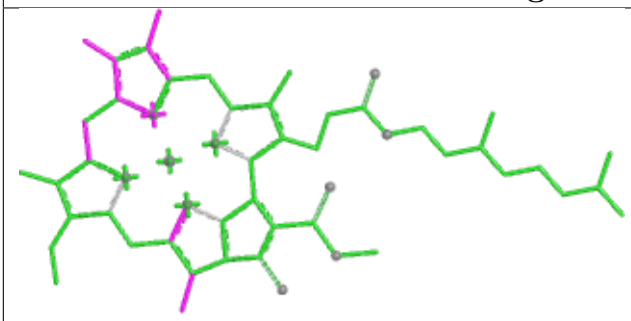


Torsions



Rings

Ligand CLA b 811



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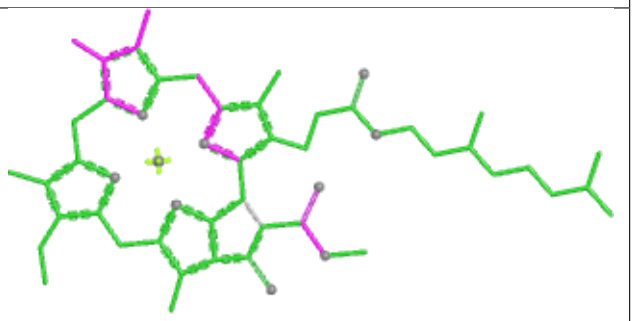
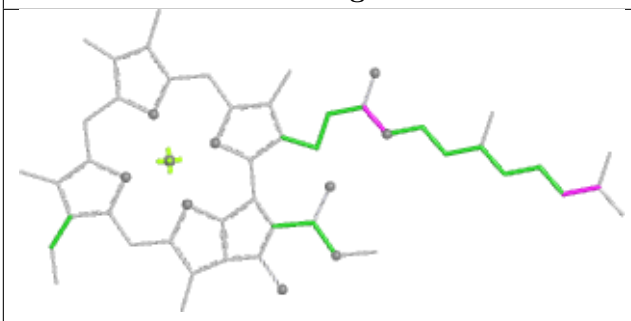


Bond angles



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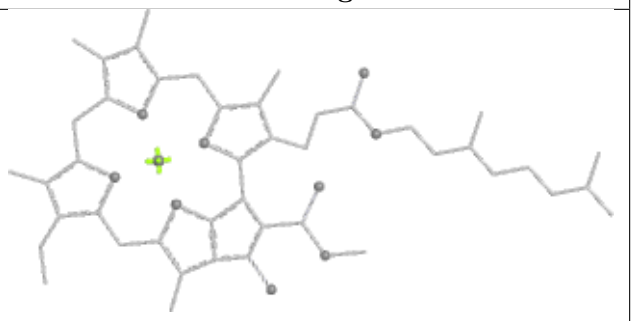
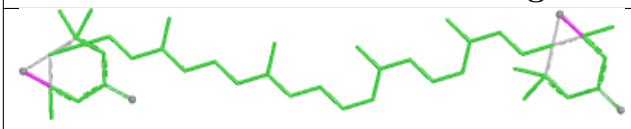


Rings

Ligand XAT 1 303



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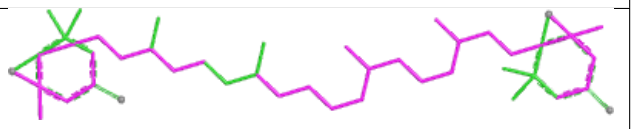
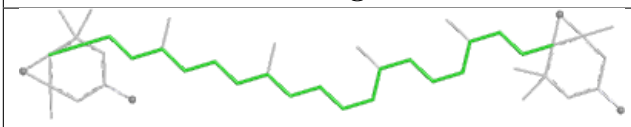


Bond angles



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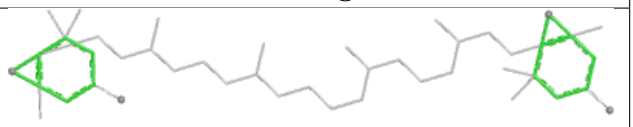
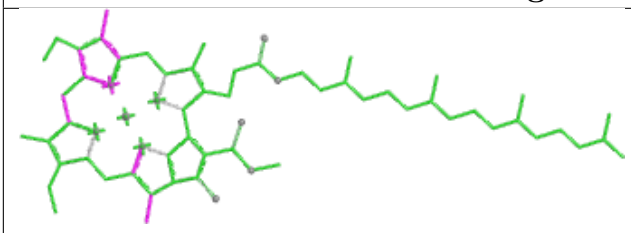


Rings

Ligand CLA b 828



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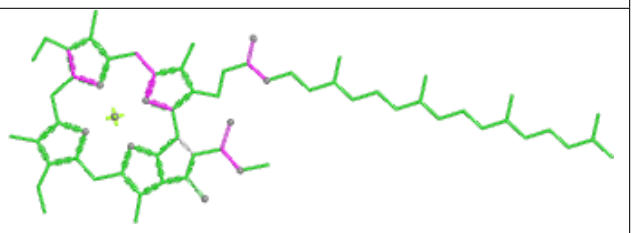
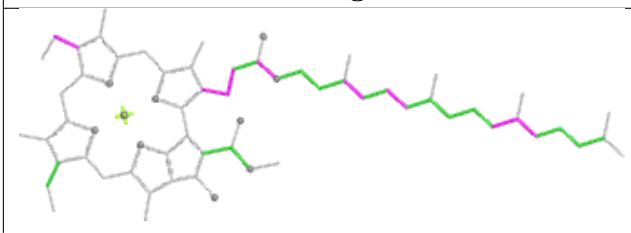


Bond angles



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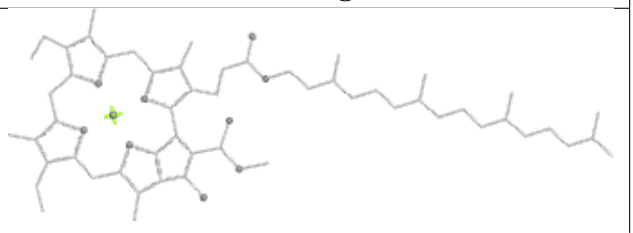
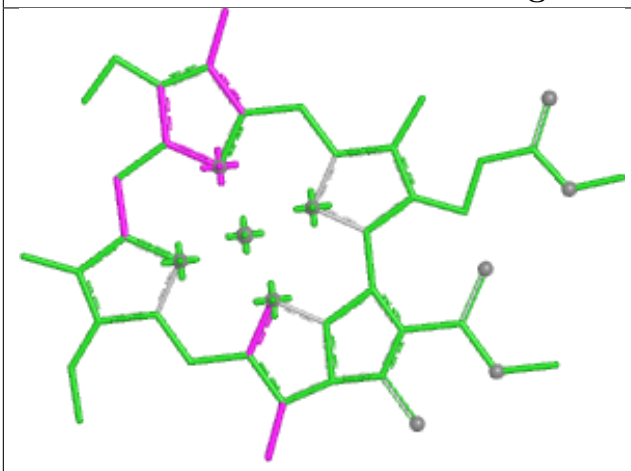
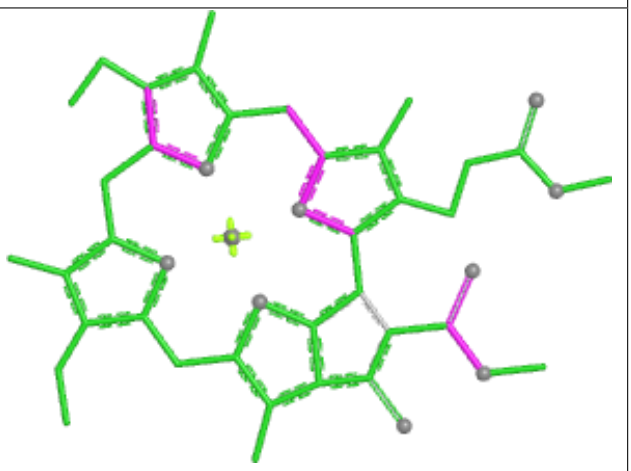


Rings

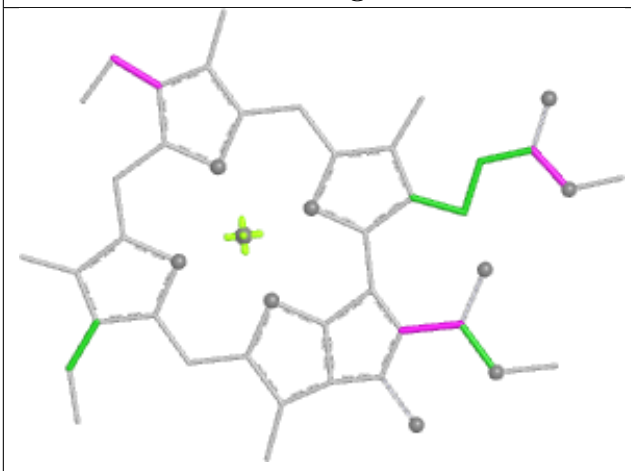
Ligand CLA 8 313



Bond lengths



Bond angles



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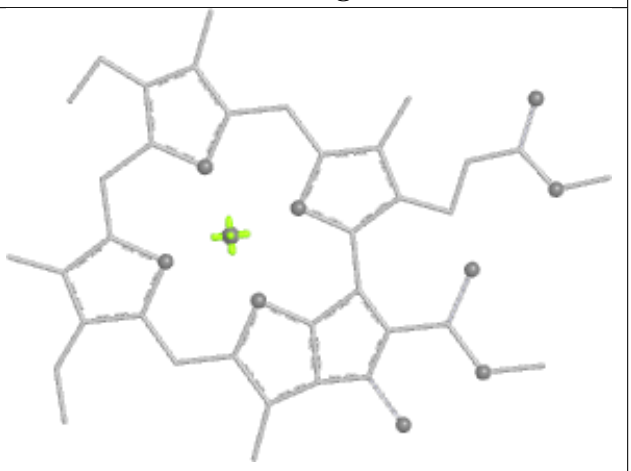
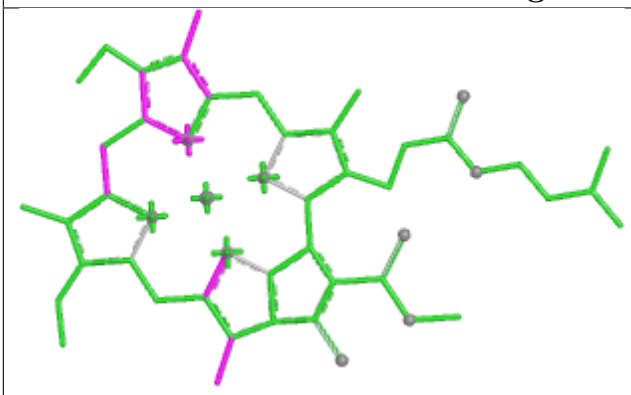


Rings

Ligand CLA b 820



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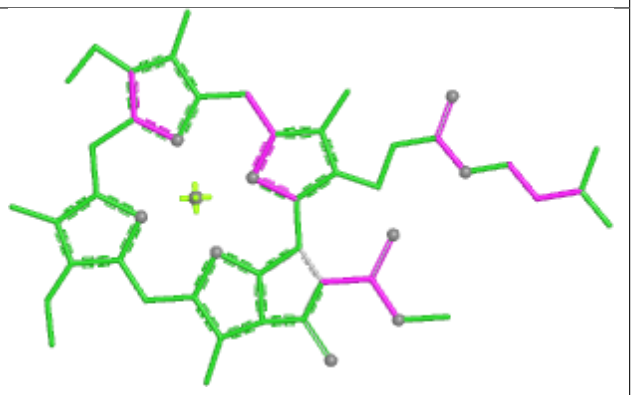
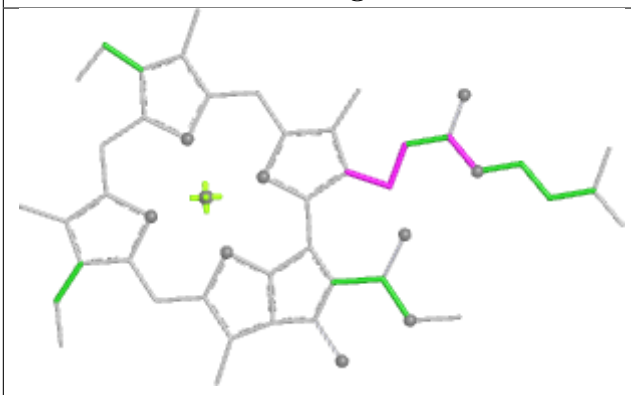


Bond angles



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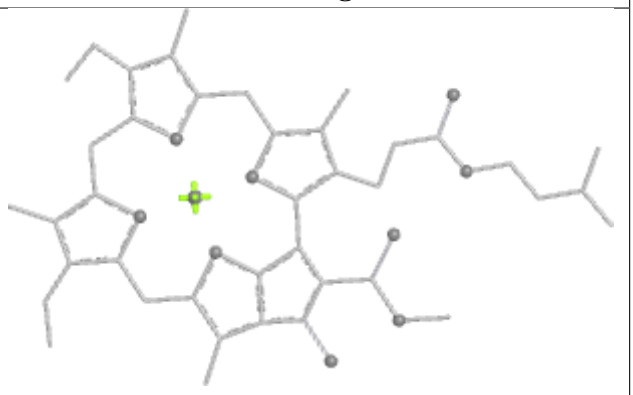
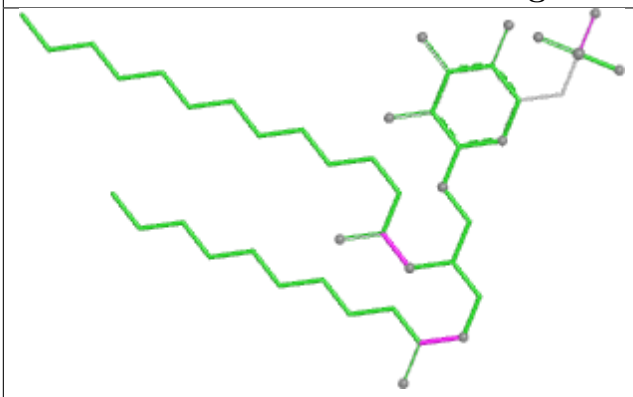


Rings

Ligand SQD 1 315



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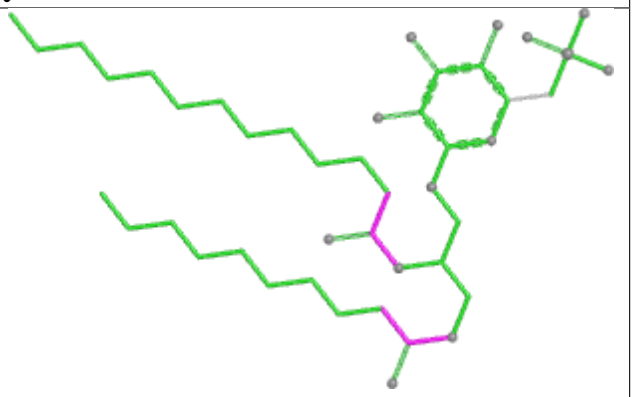
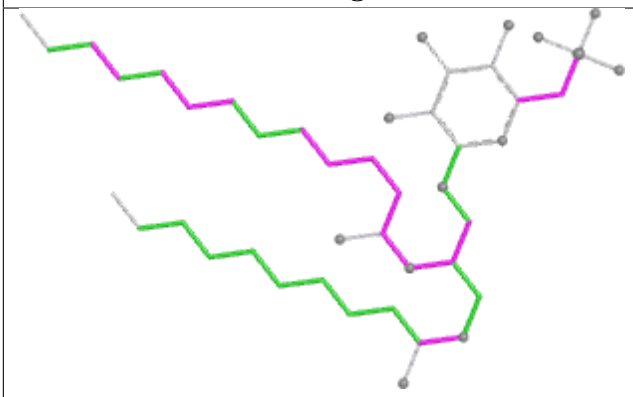
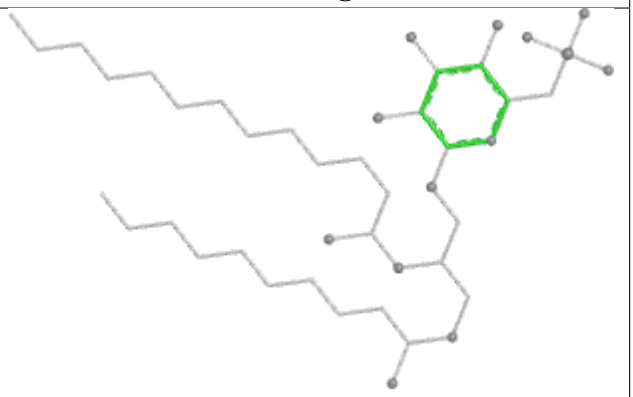


Bond angles

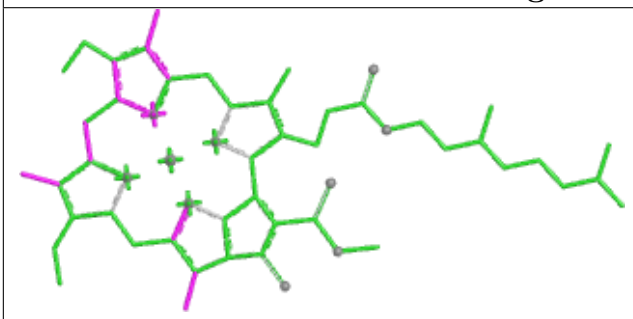


Torsions

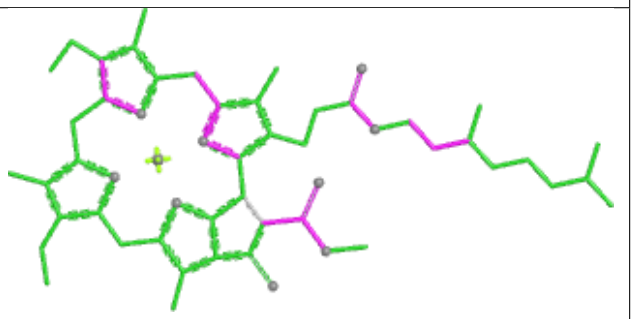


Rings

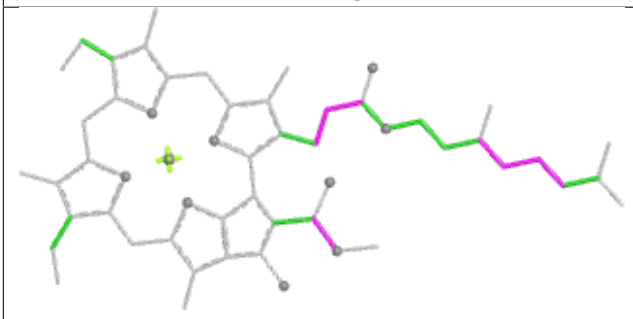
Ligand CLA h 205



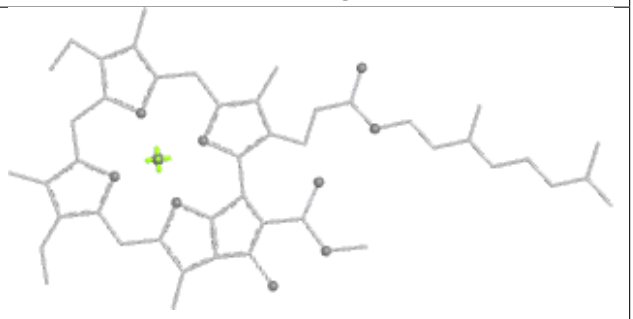
Bond lengths



Bond angles

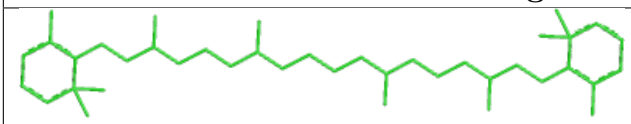


Torsions



Rings

Ligand BCR a 848



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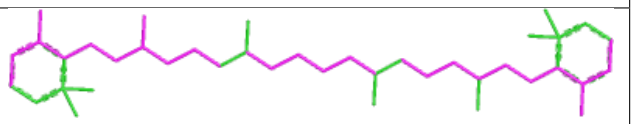
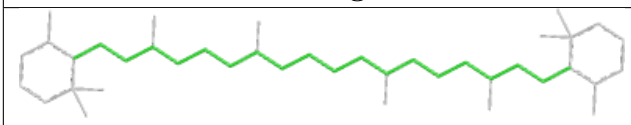
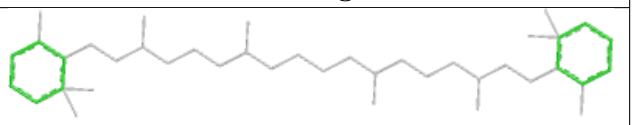


Bond angles

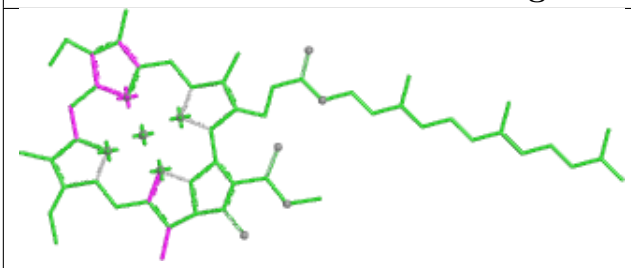


Torsions



Rings

Ligand CLA 7 308



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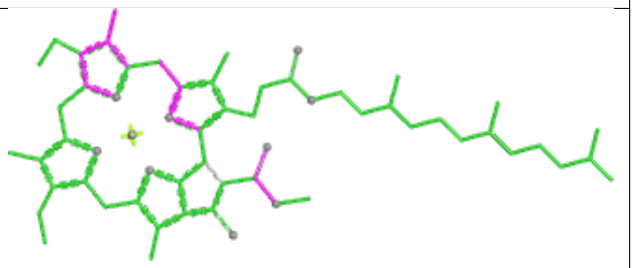
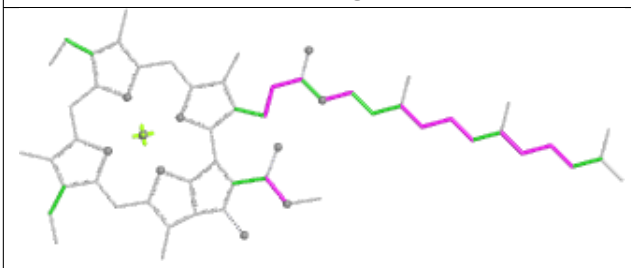
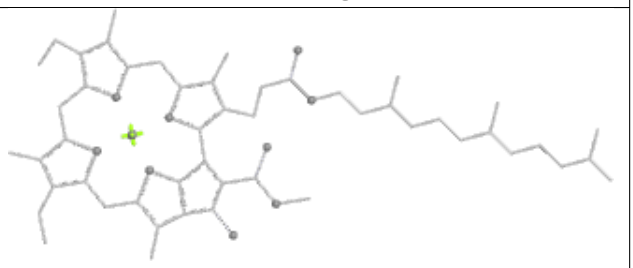


Bond angles

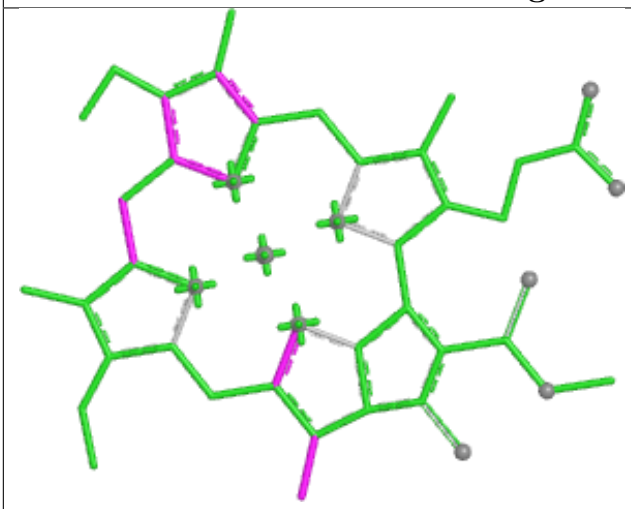


Torsions



Rings

Ligand CLA 7 317



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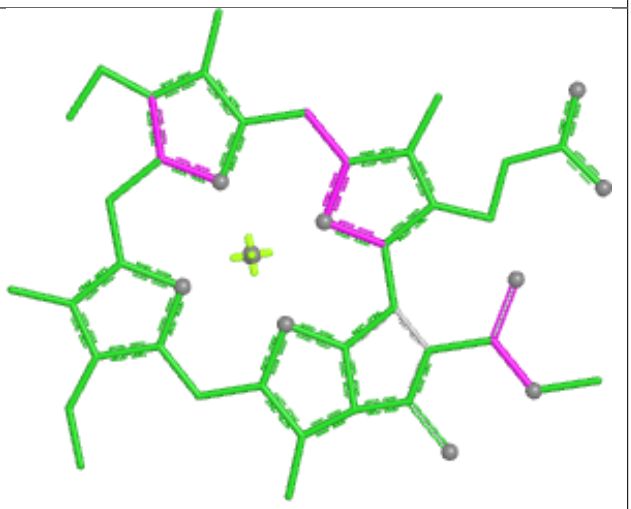
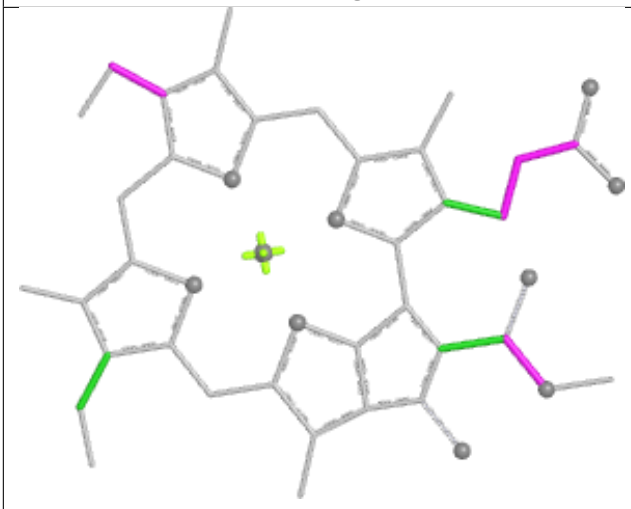


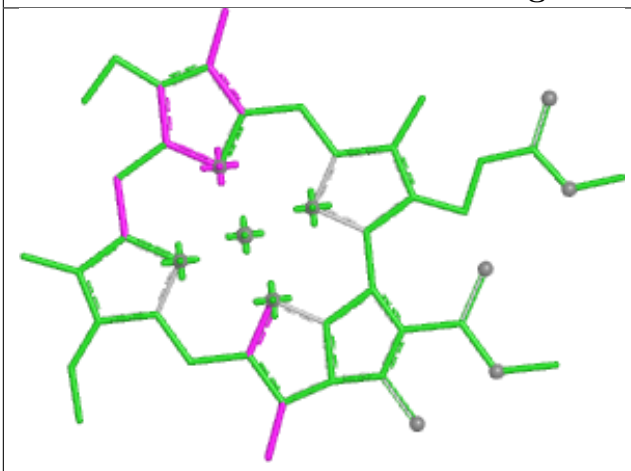
Bond angles



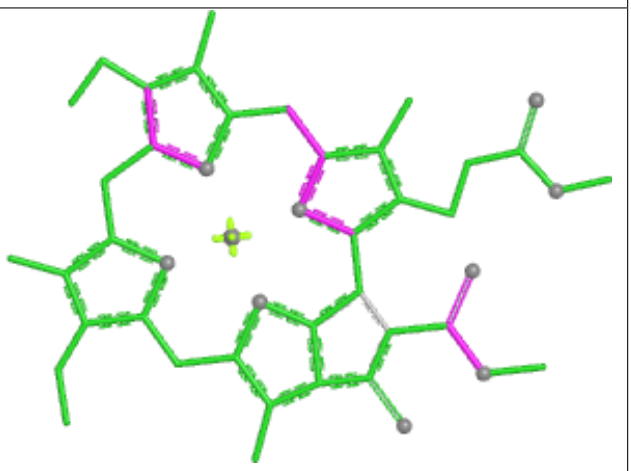
Torsions

Rings

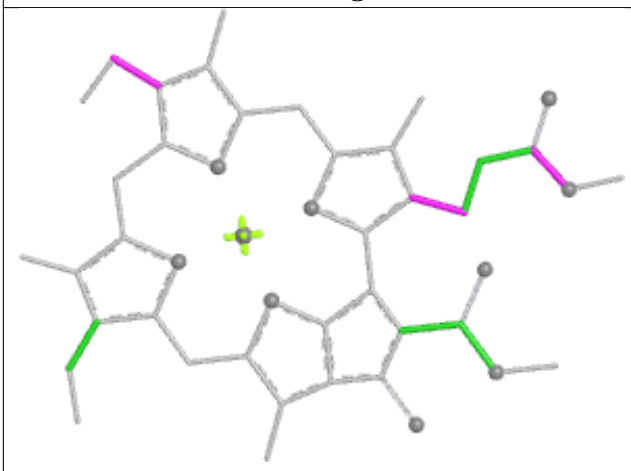
Ligand CLA a 824



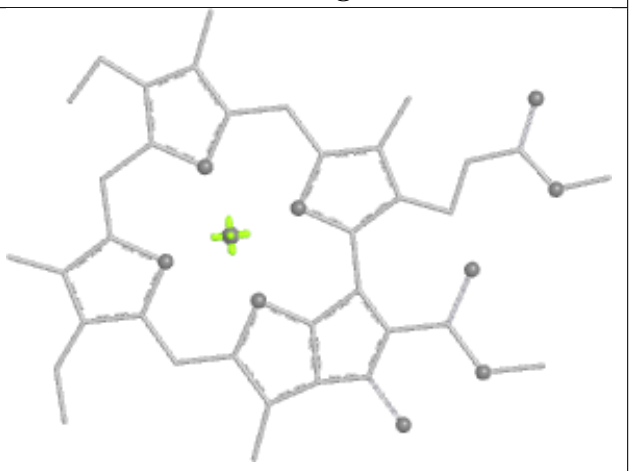
Bond lengths



Bond angles

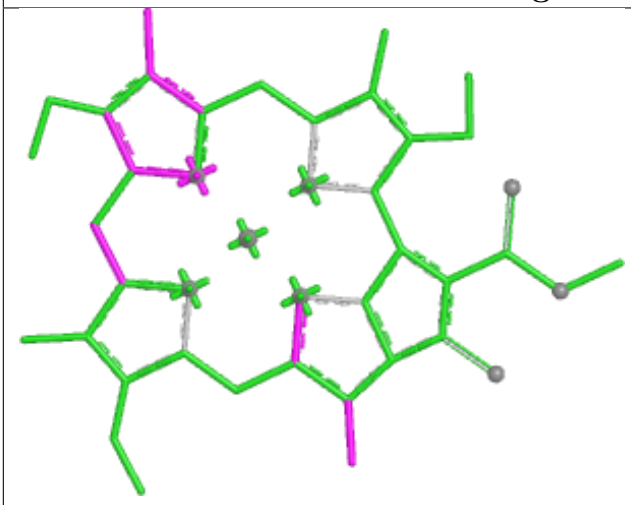


Torsions

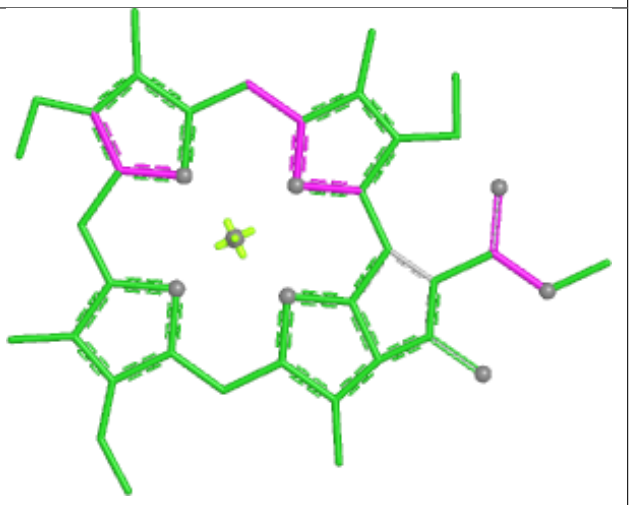


Rings

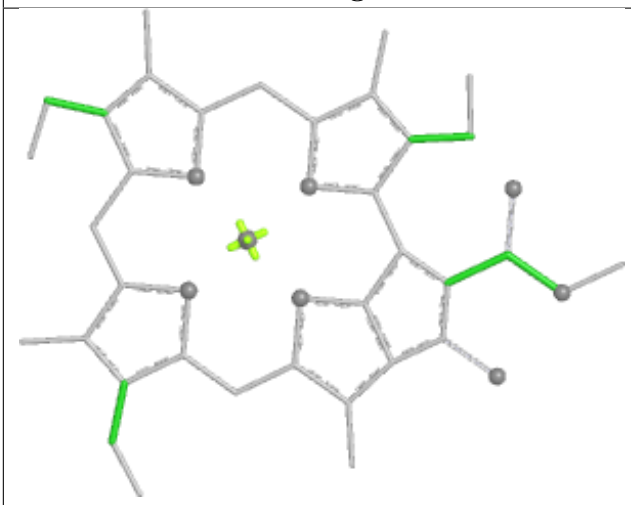
Ligand CLA l 202



Bond lengths



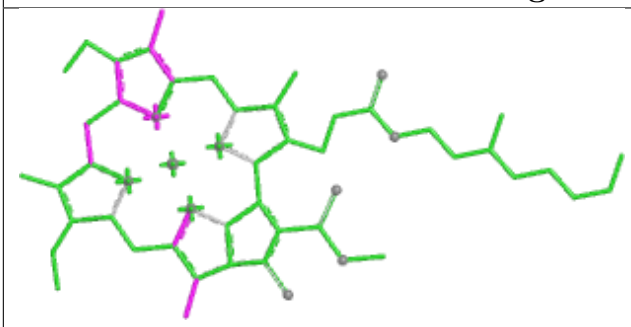
Bond angles



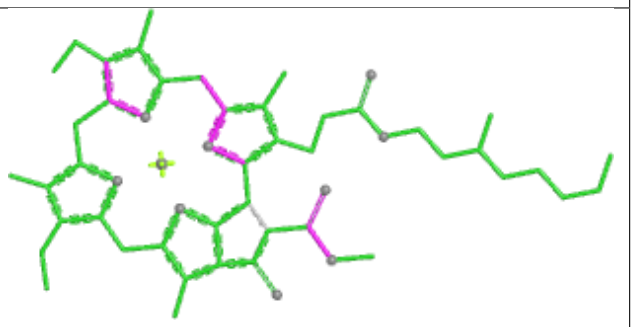
Torsions

Rings

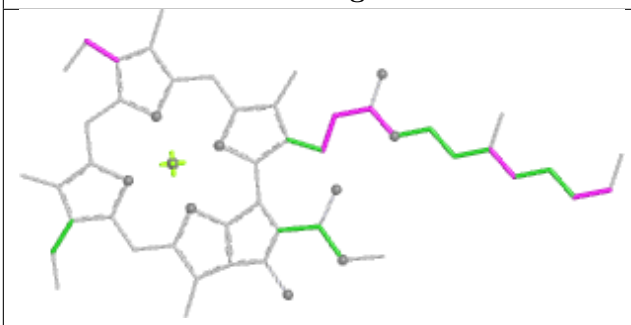
Ligand CLA a 813



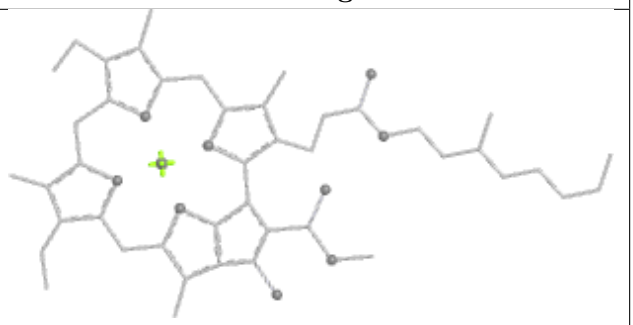
Bond lengths



Bond angles

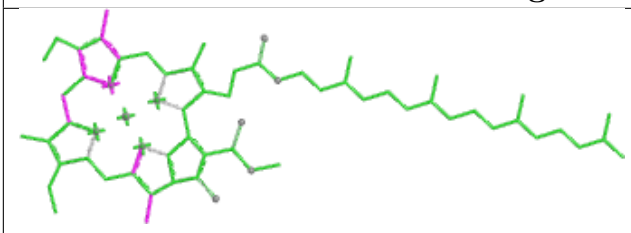


Torsions

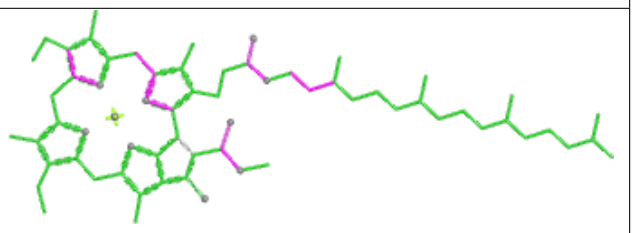


Rings

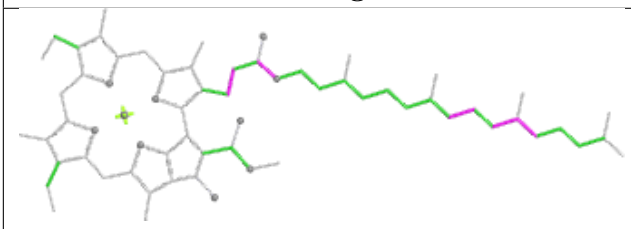
Ligand CLA a 842



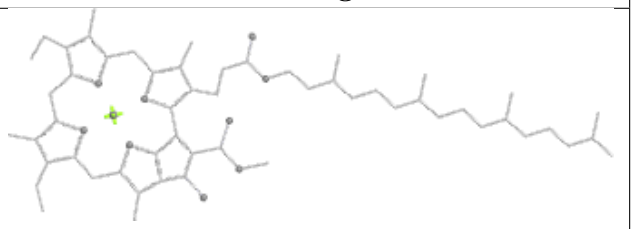
Bond lengths



Bond angles

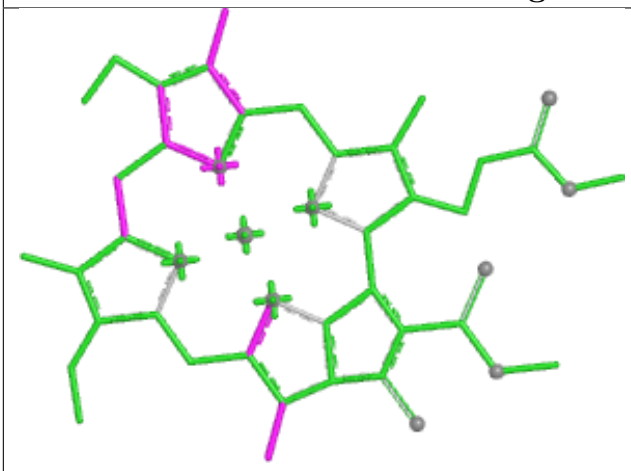


Torsions

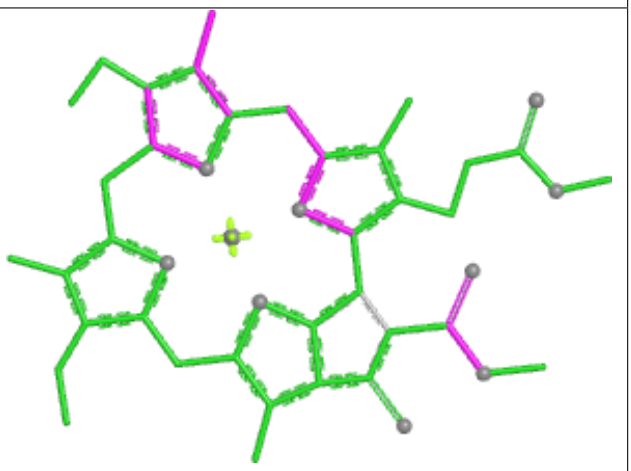


Rings

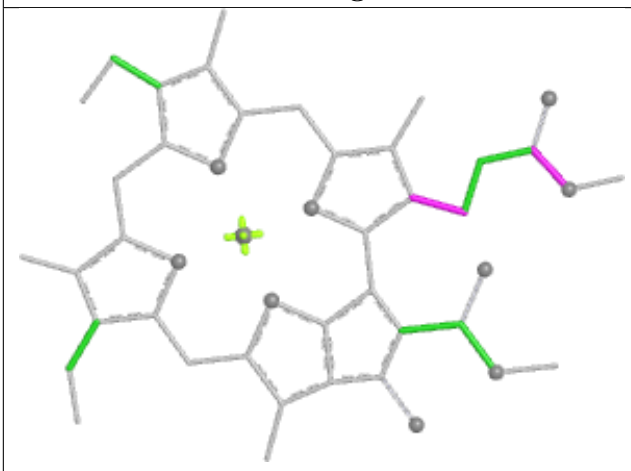
Ligand CLA 7 311



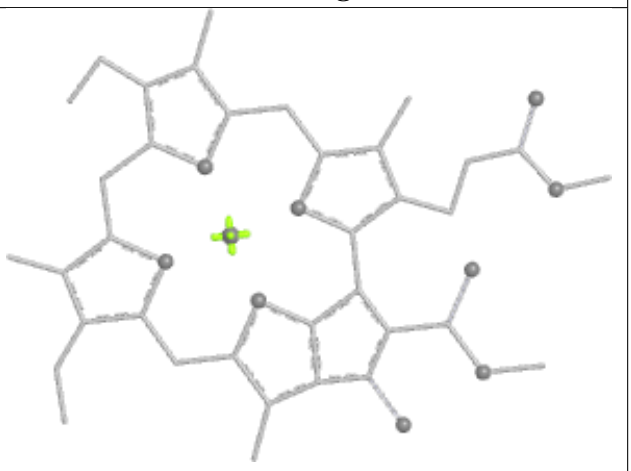
Bond lengths



Bond angles

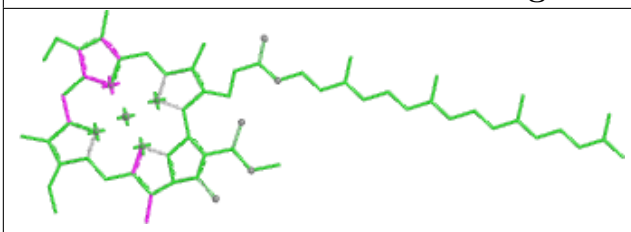


Torsions



Rings

Ligand CLA 9 316



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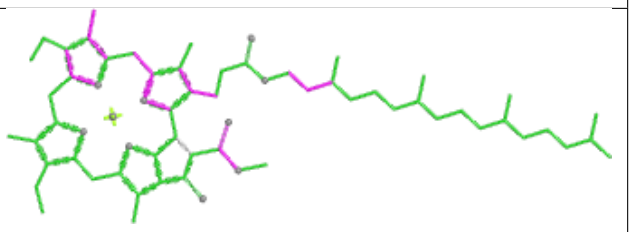

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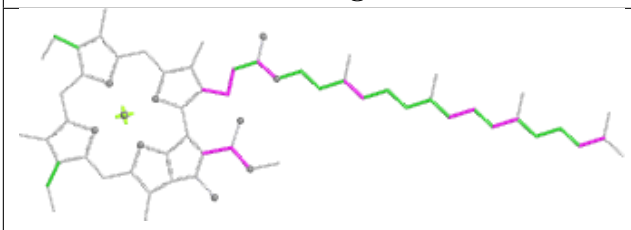
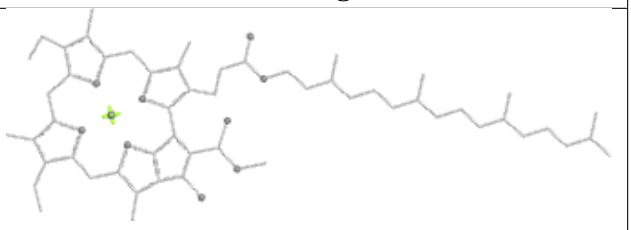
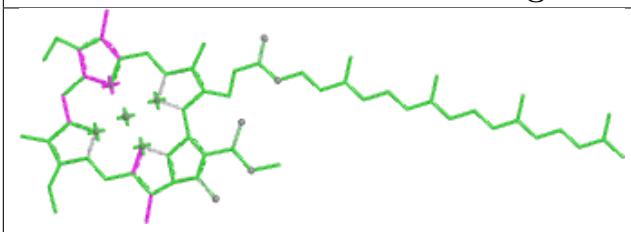


Torsions



Rings

Ligand CLA b 827



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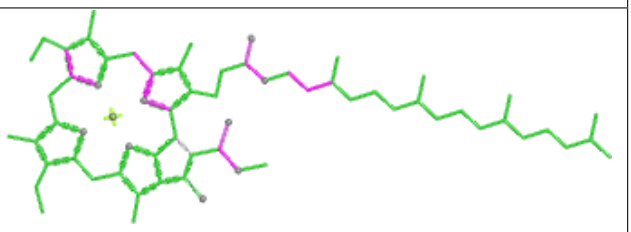
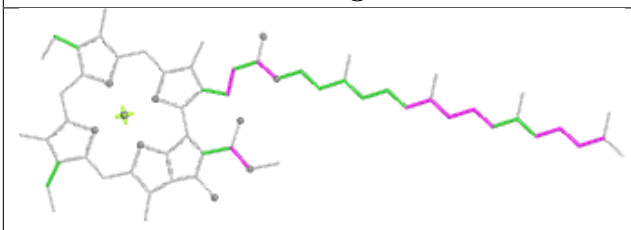
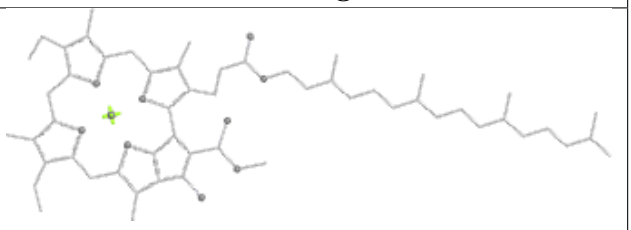


Bond angles

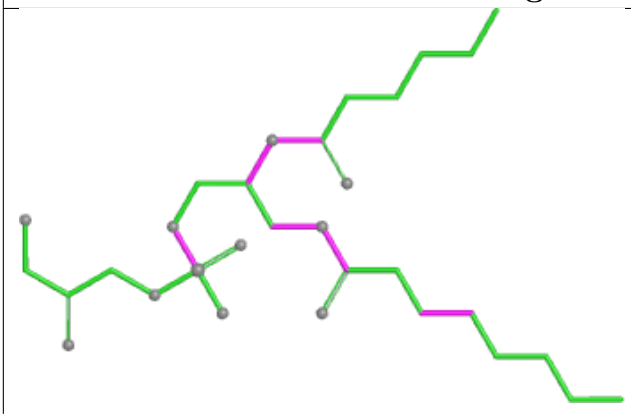


Torsions



Rings

Ligand LHG b 847



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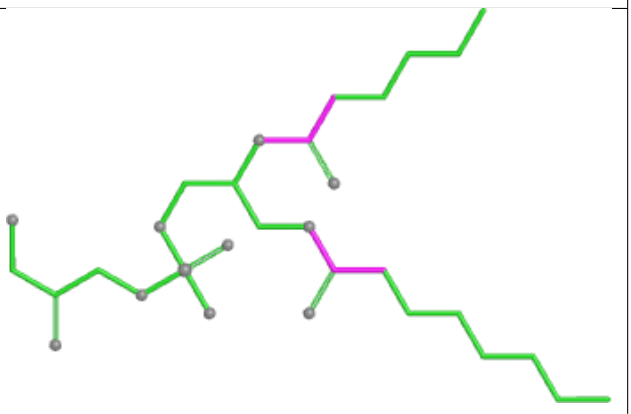
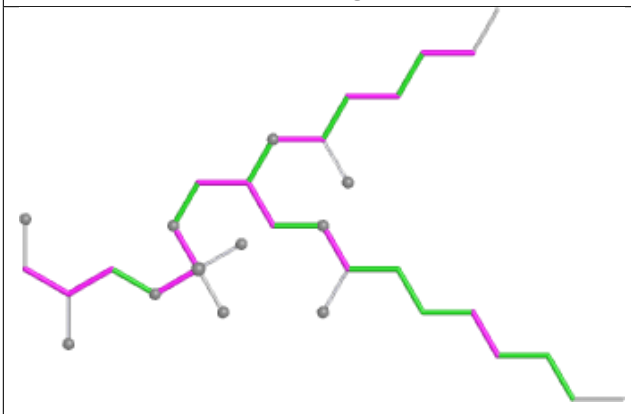


Bond angles



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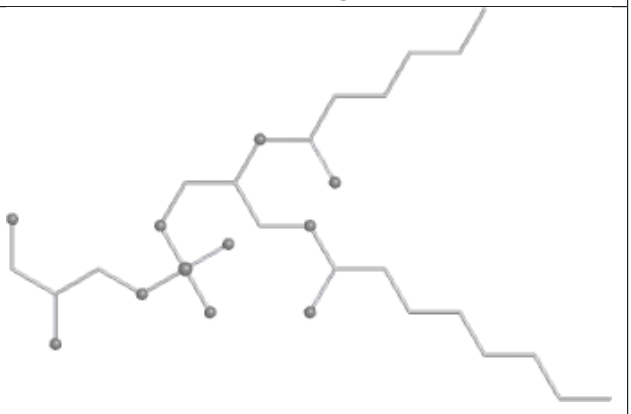
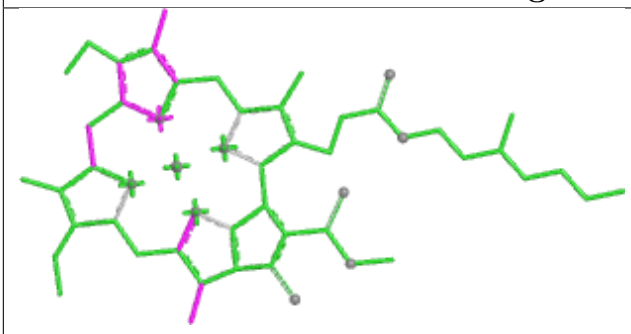
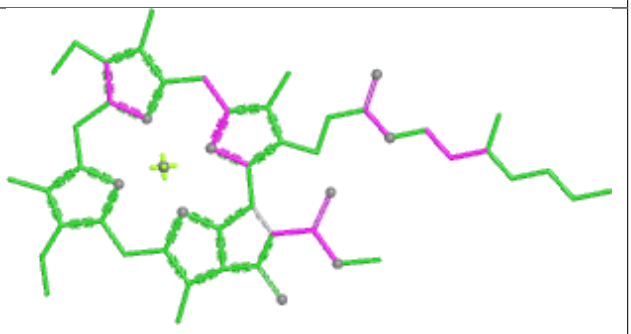
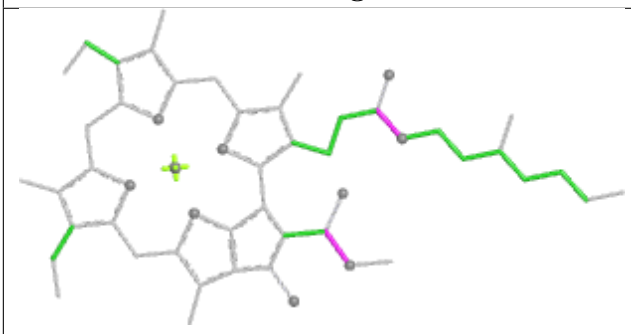
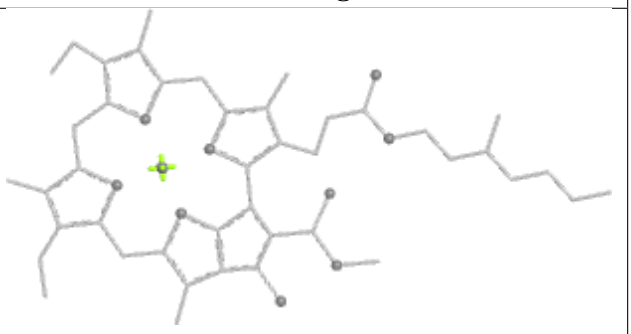
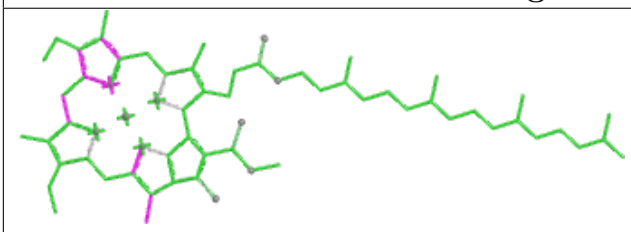
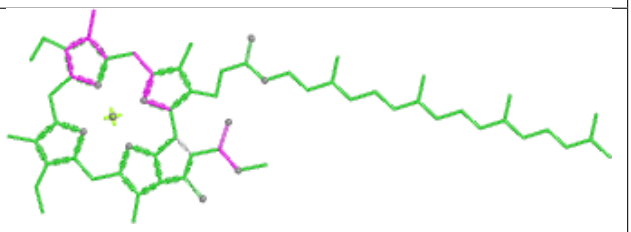
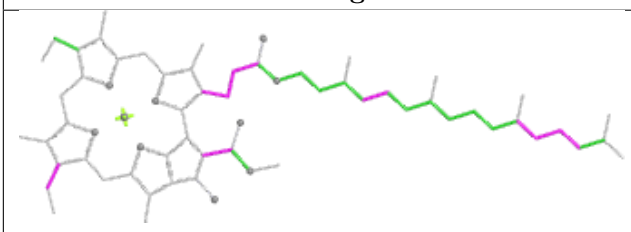
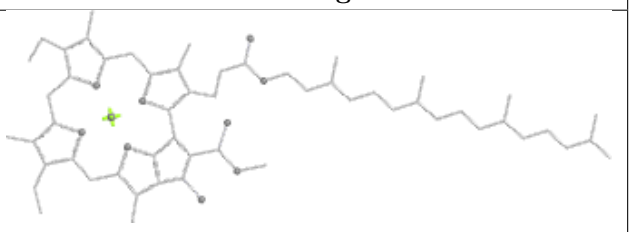
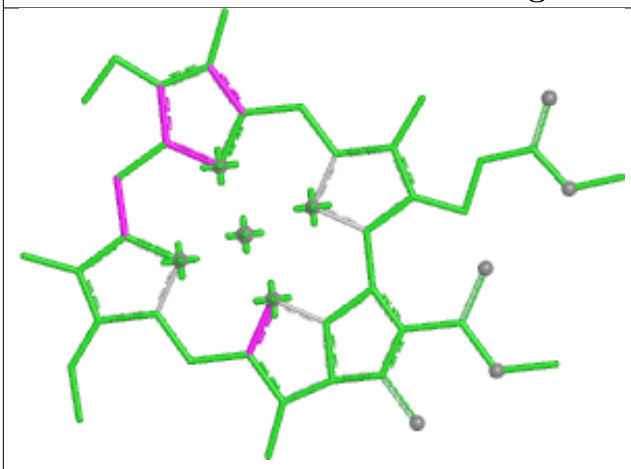


Rings

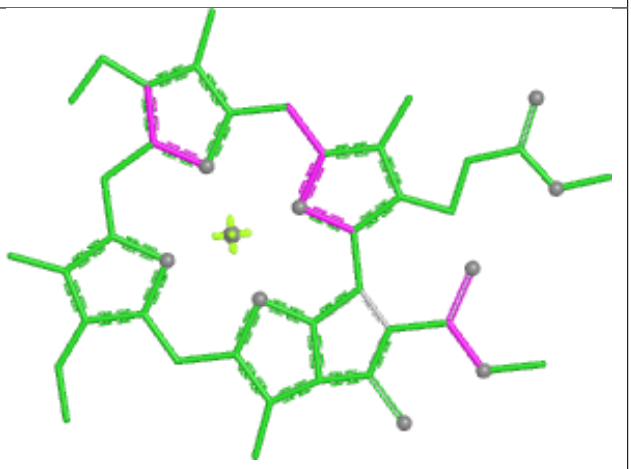
Ligand CLA 1 311	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA b 832	
	
Bond lengths	Bond angles
	
Torsions	Rings

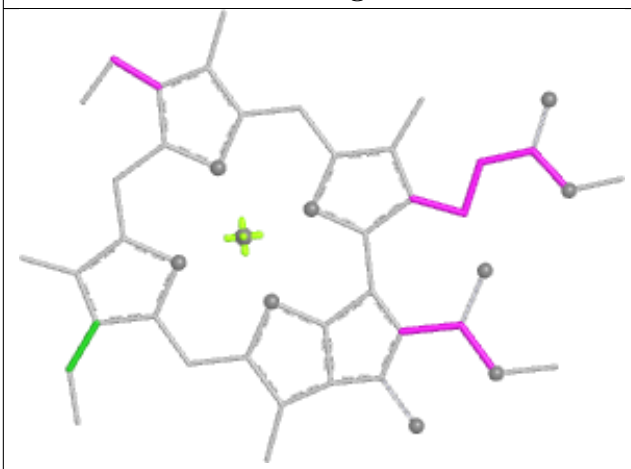
Ligand CLA 9 313



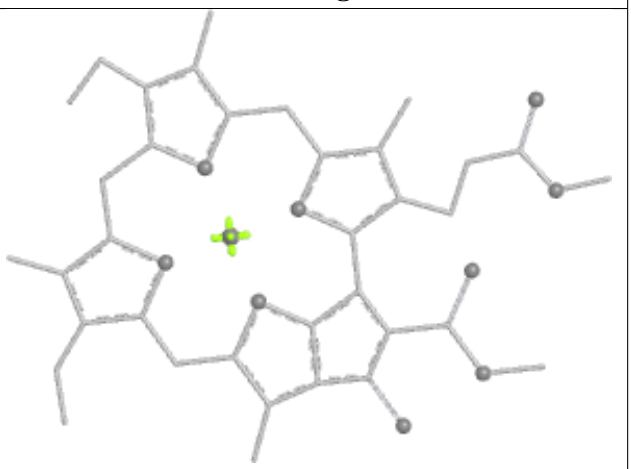
Bond lengths



Bond angles



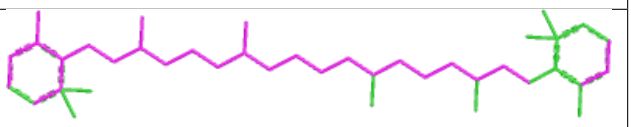
Torsions



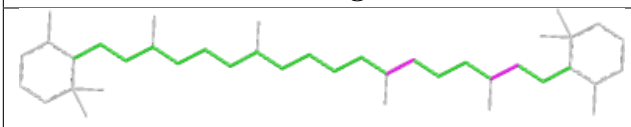
Rings

Ligand BCR f 801

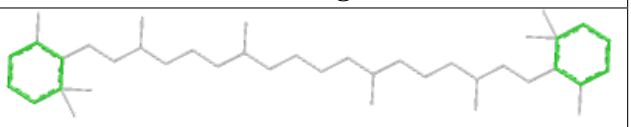
Bond lengths



Bond angles

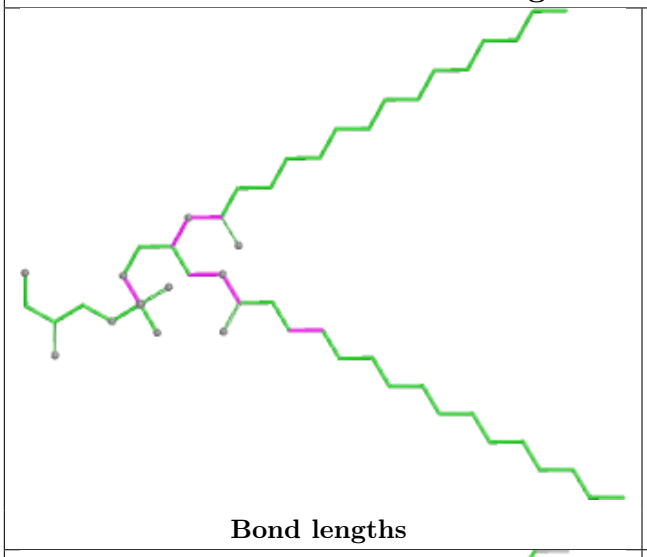


Torsions

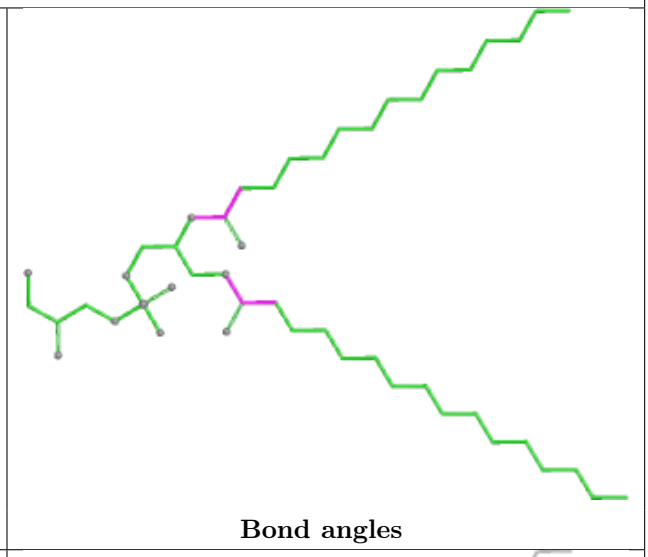


Rings

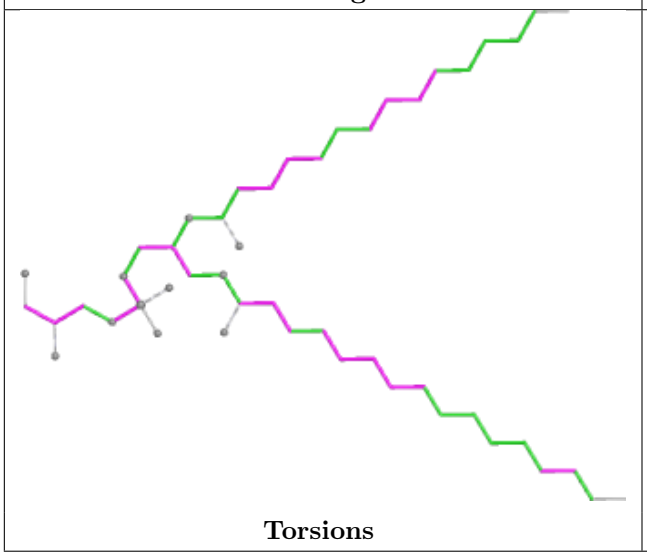
Ligand LHG a 845



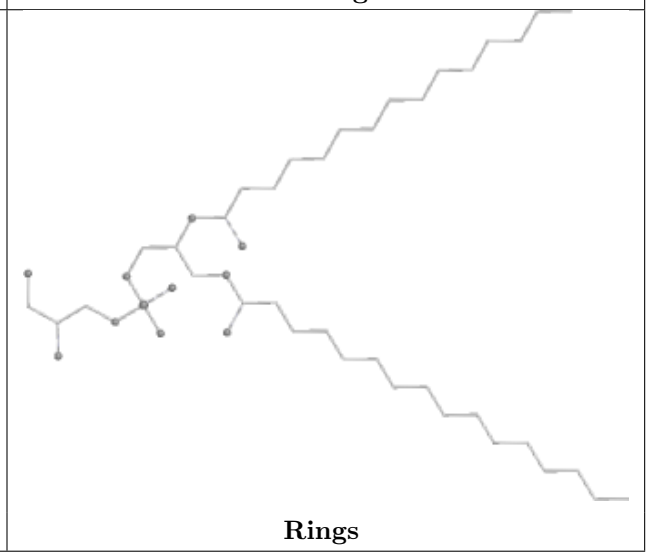
Bond lengths



Bond angles

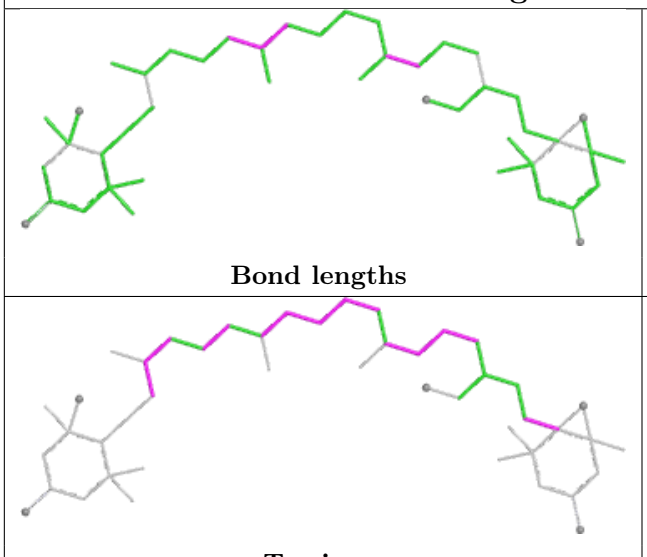


Torsions

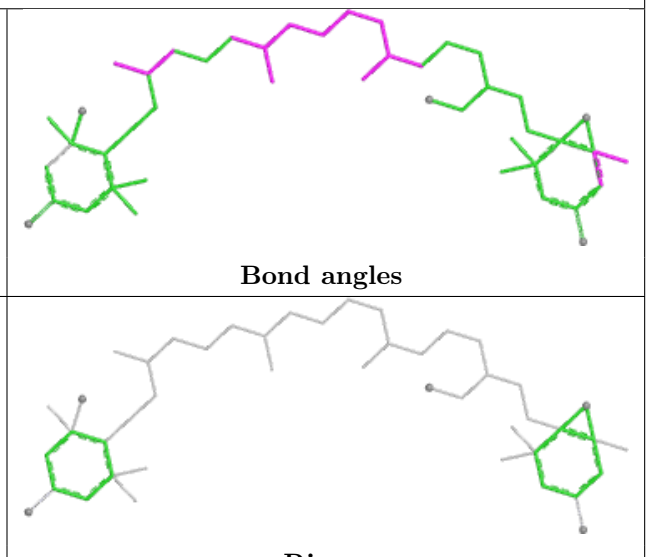


Rings

Ligand A1L1G 7 302



Bond lengths

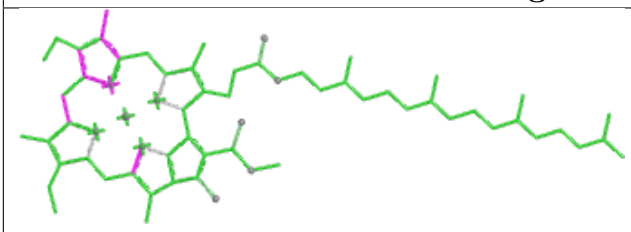


Bond angles

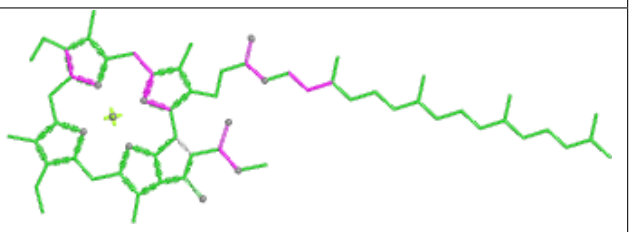
Torsions

Rings

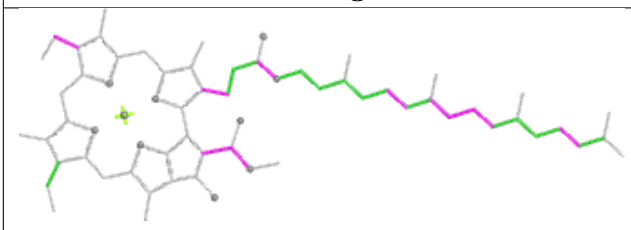
Ligand CLA a 854



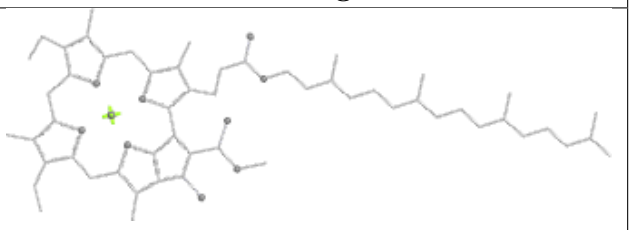
Bond lengths



Bond angles

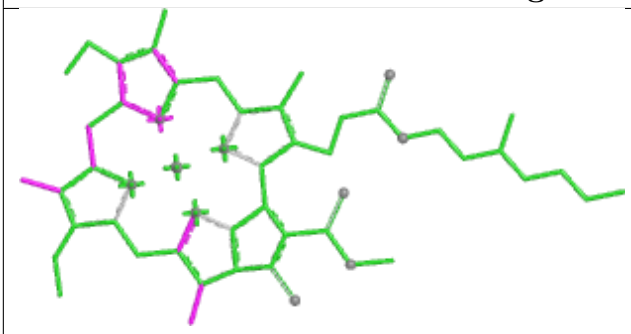


Torsions

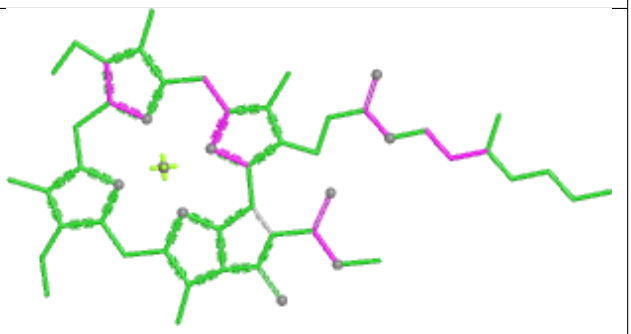


Rings

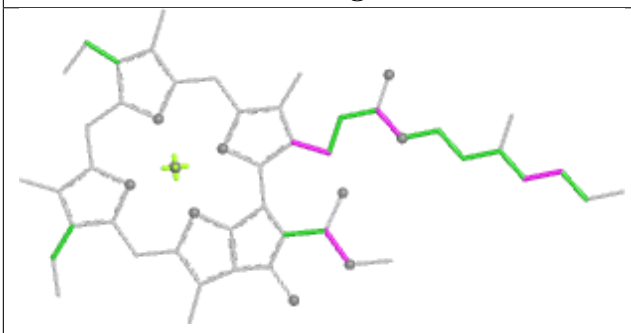
Ligand CLA b 823



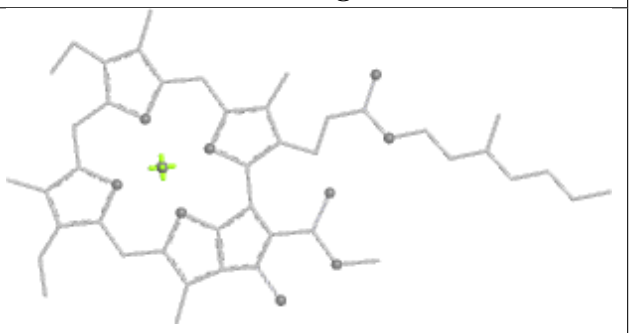
Bond lengths



Bond angles

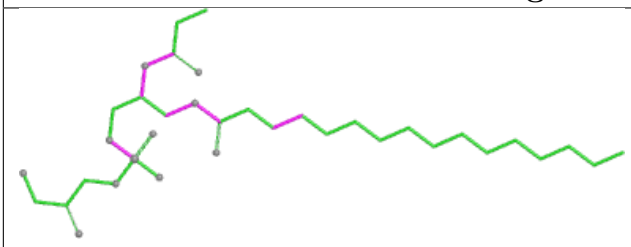


Torsions

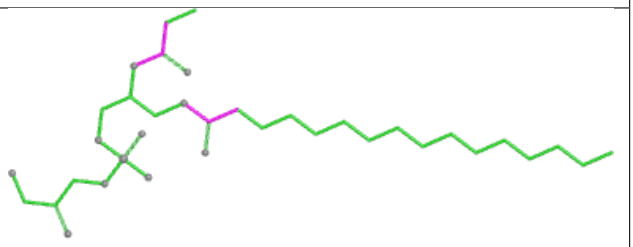


Rings

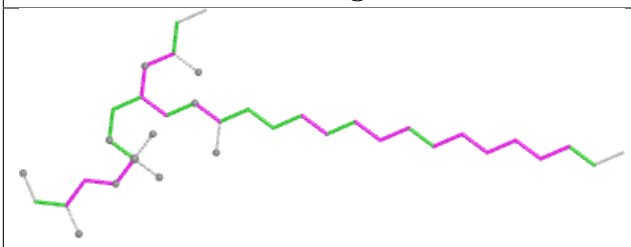
Ligand LHG 9 307



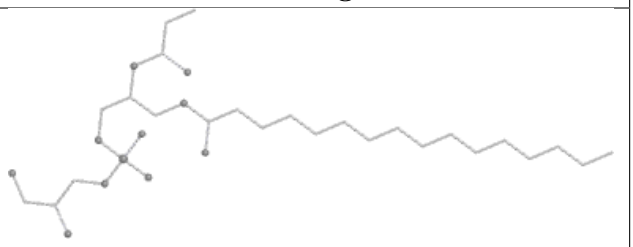
Bond lengths



Bond angles

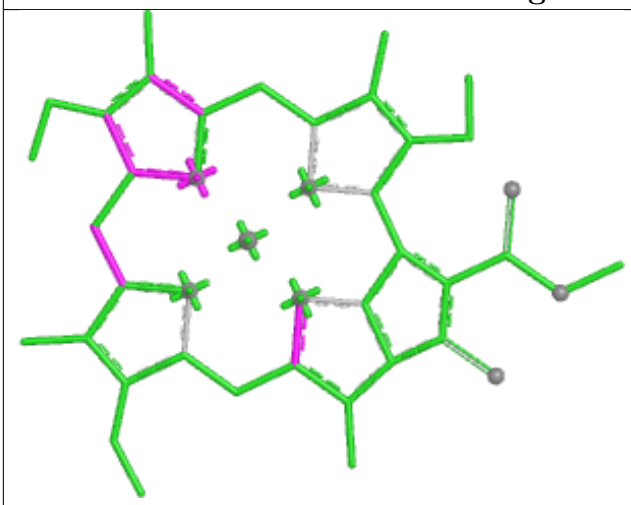


Torsions

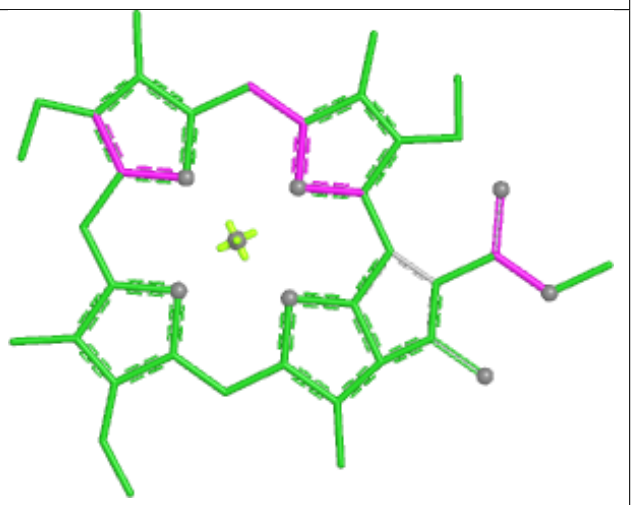


Rings

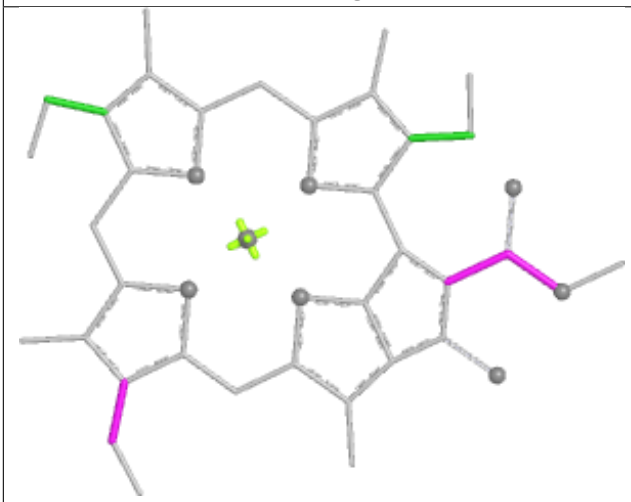
Ligand CLA 9 315



Bond lengths



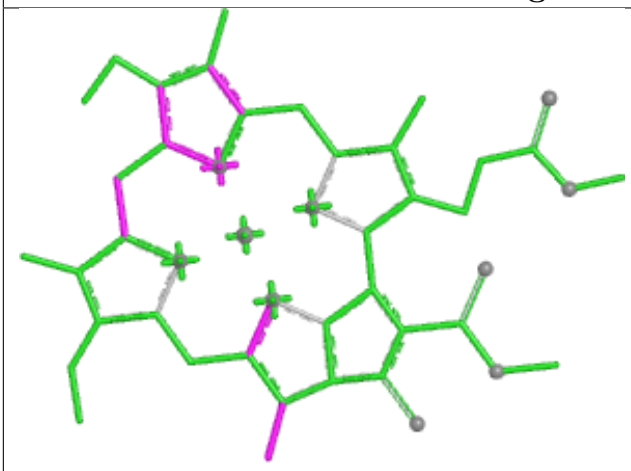
Bond angles



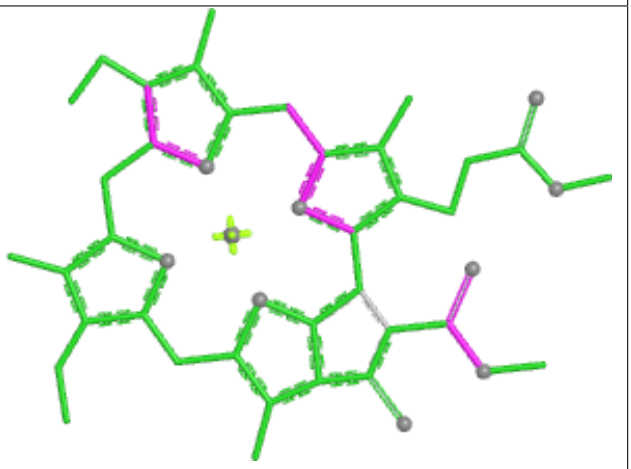
Torsions

Rings

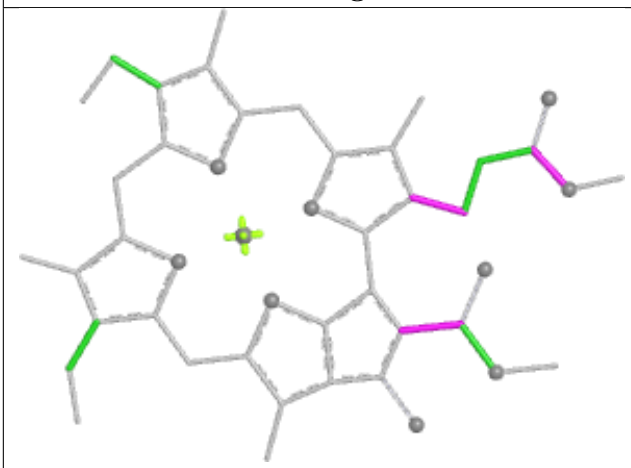
Ligand CLA 9 310



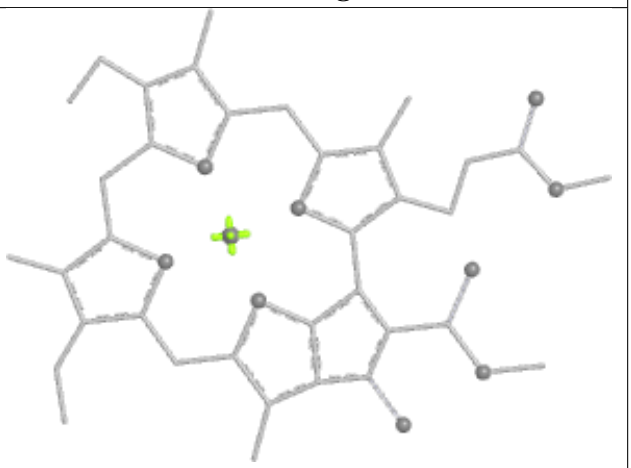
Bond lengths



Bond angles

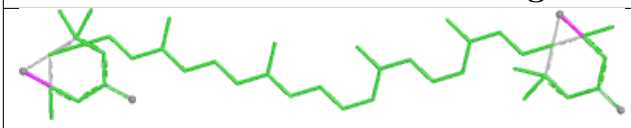


Torsions



Rings

Ligand XAT 1 302



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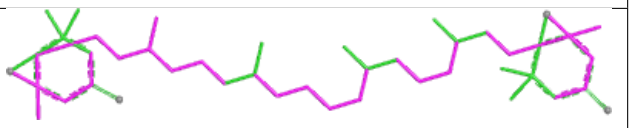

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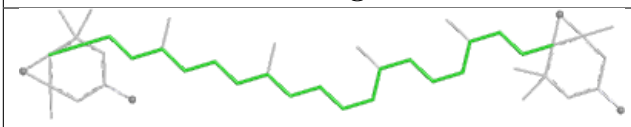

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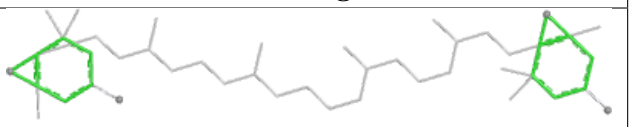
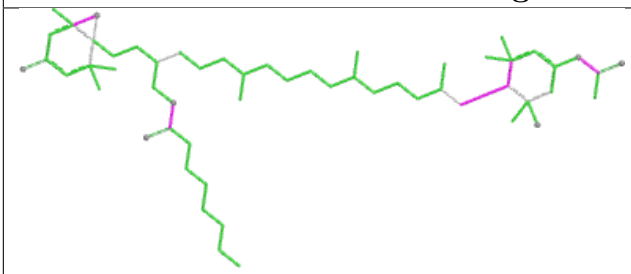


Rings

Ligand A1L1F 1 304



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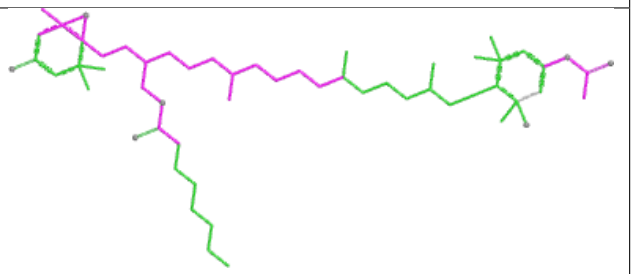
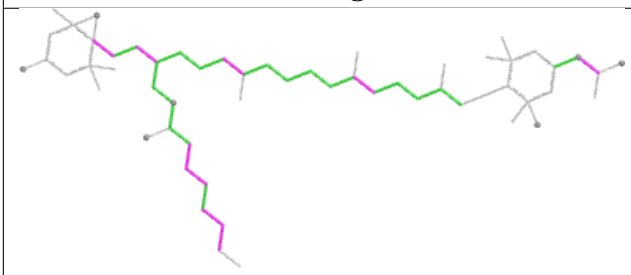


Bond angles



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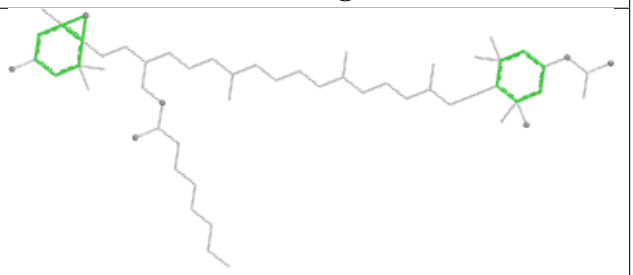
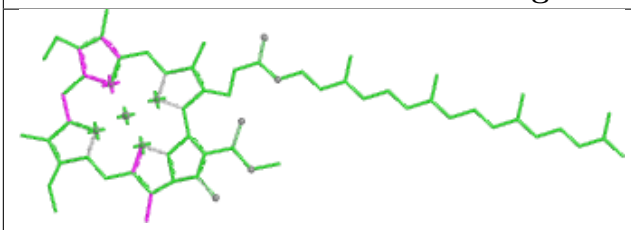


Rings

Ligand CLA f 802



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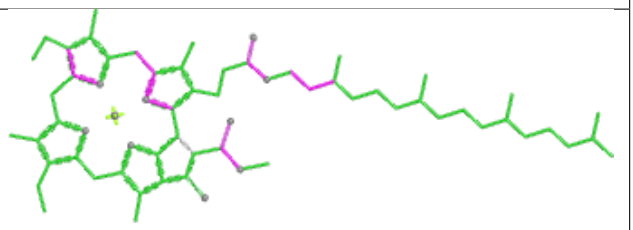
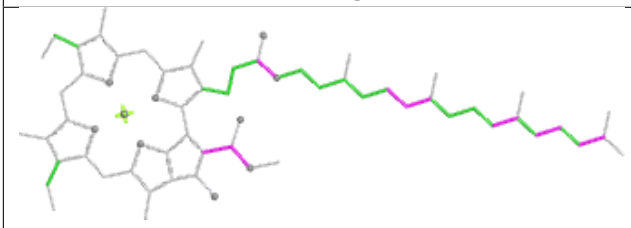


Bond angles



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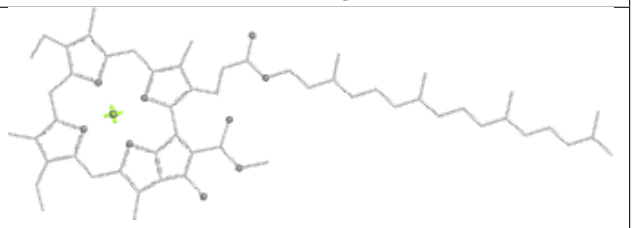
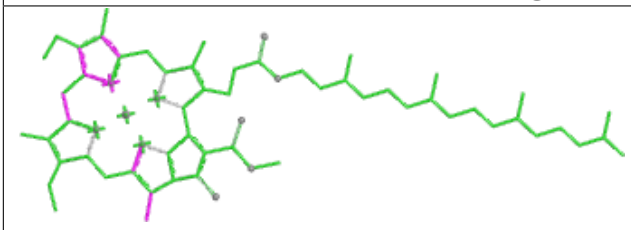


Rings

Ligand CLA a 826



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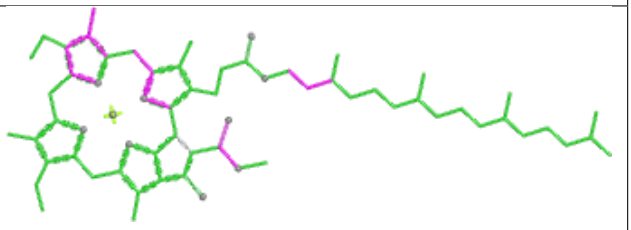

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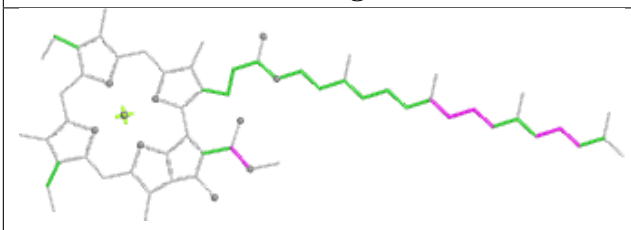

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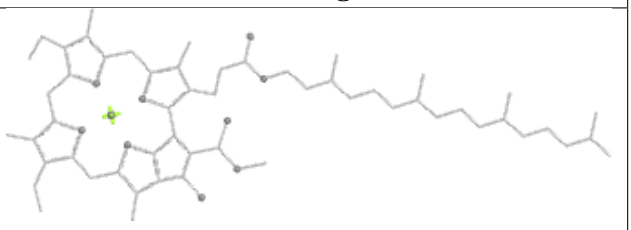
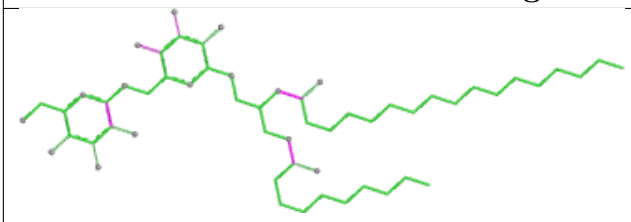


Rings

Ligand DGD b 848



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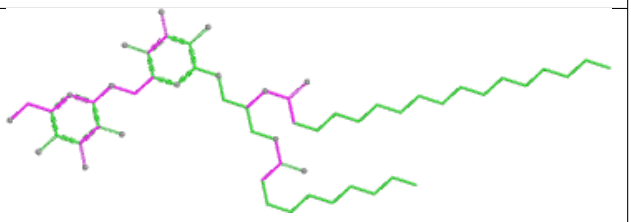

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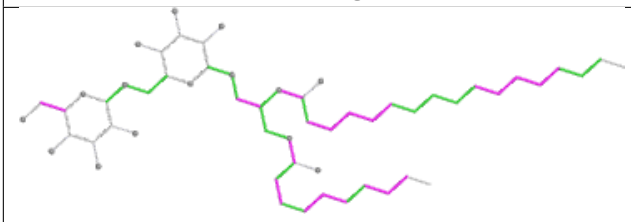

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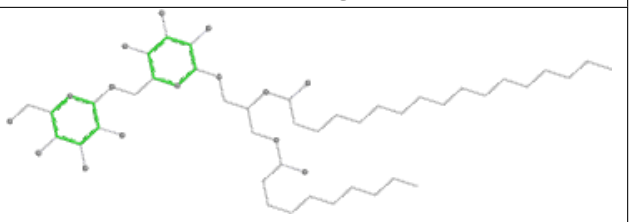
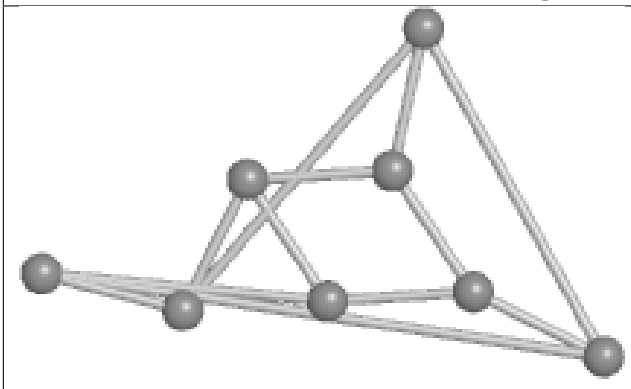


Rings

Ligand SF4 c 101



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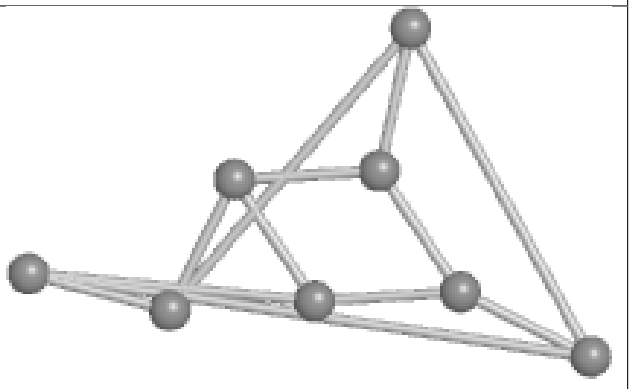

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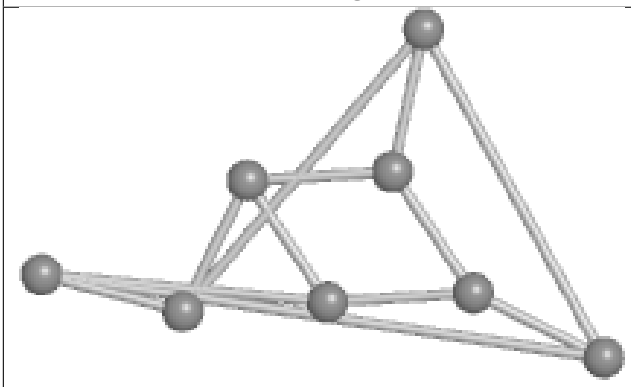

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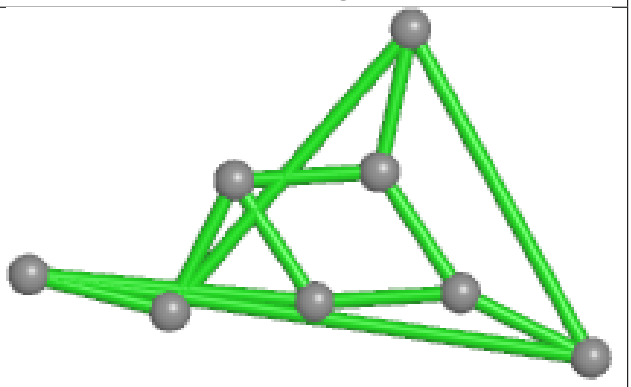
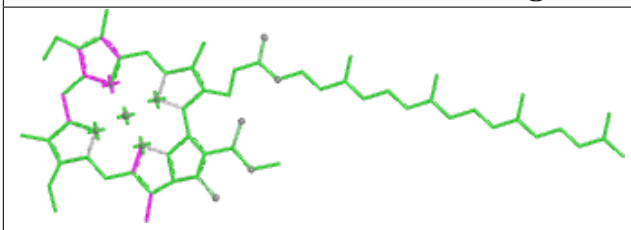


Rings

Ligand CLA b 826



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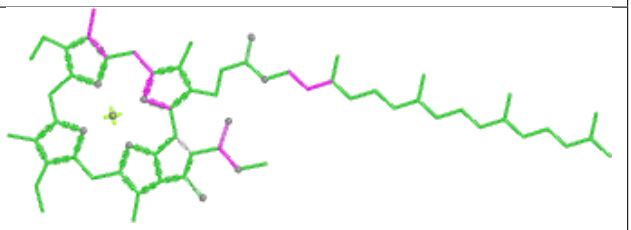

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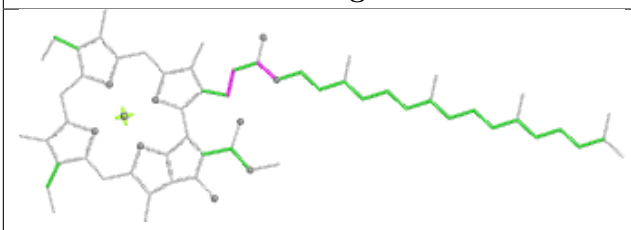

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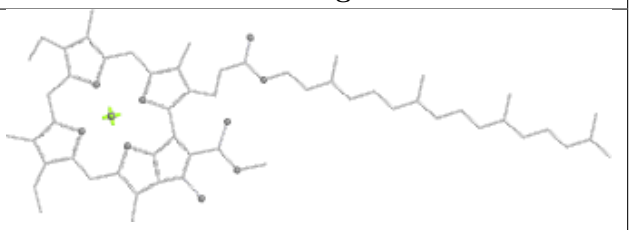
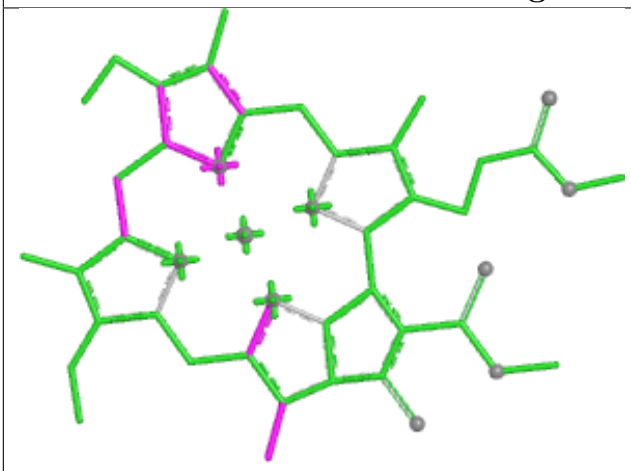


Rings

Ligand CLA 8 306



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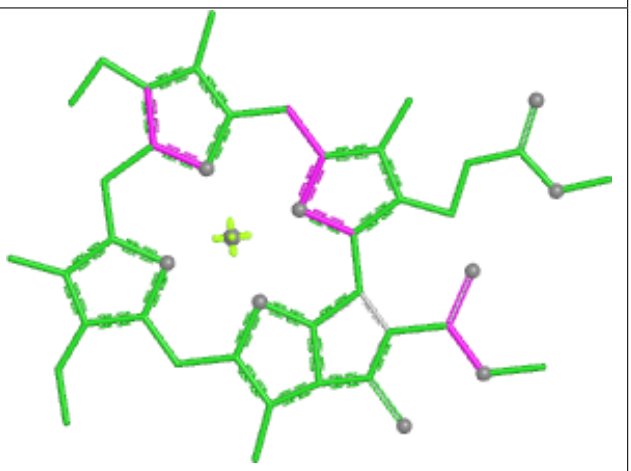
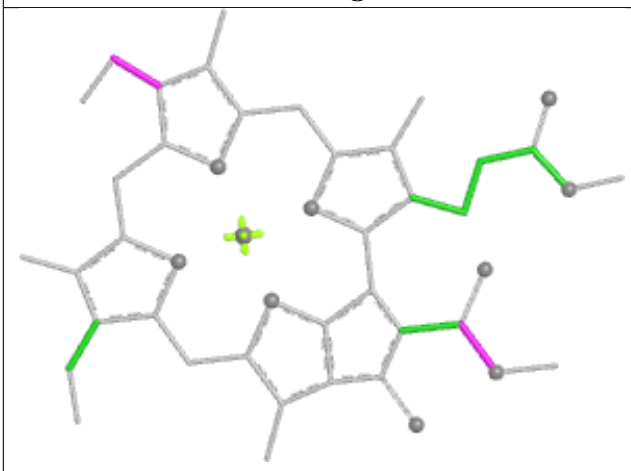


Bond angles



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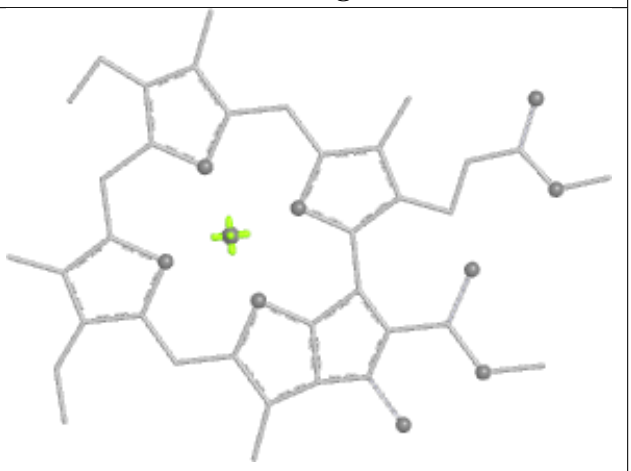
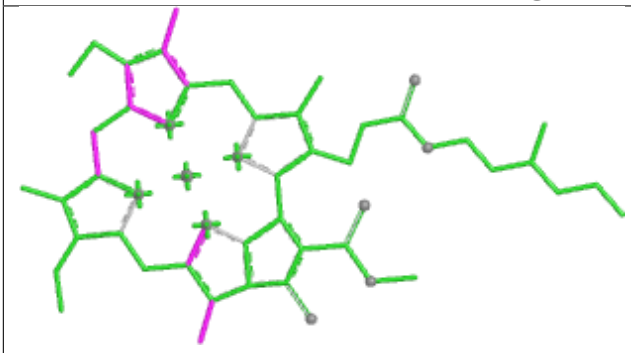
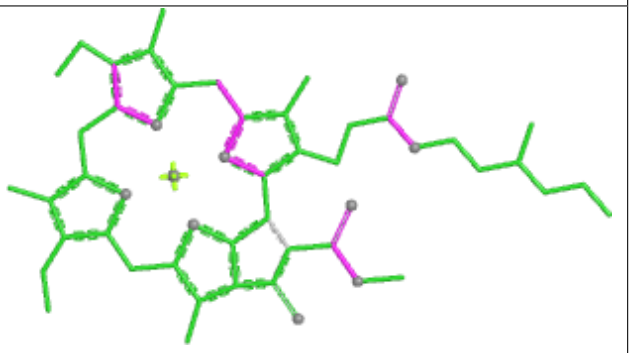
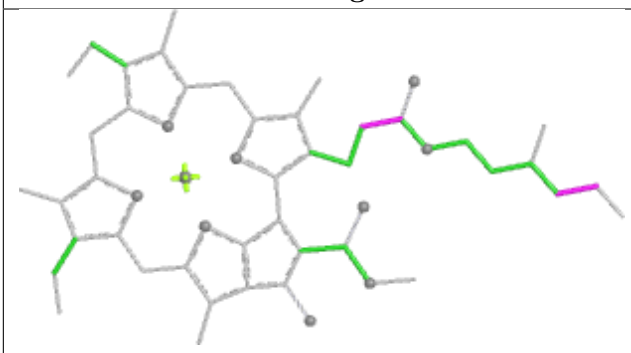
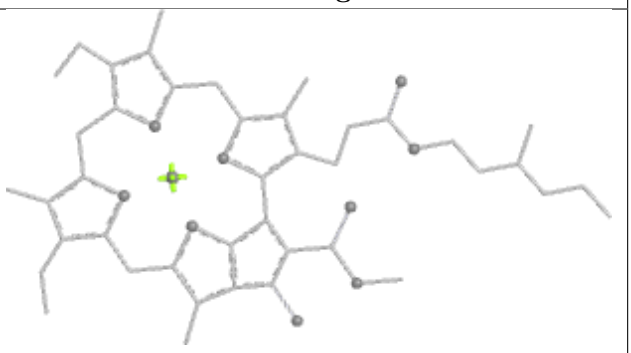
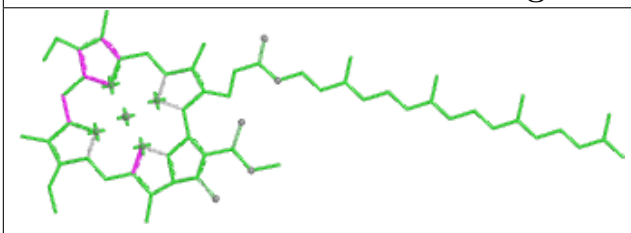
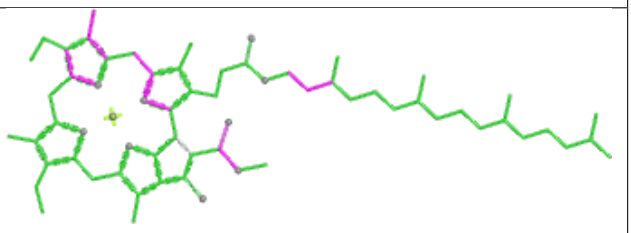
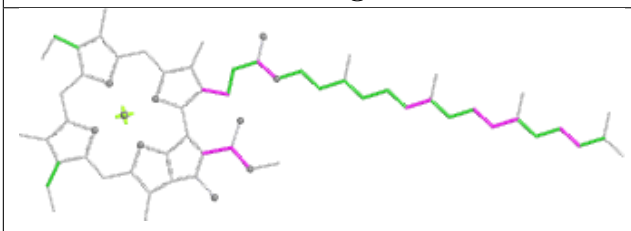
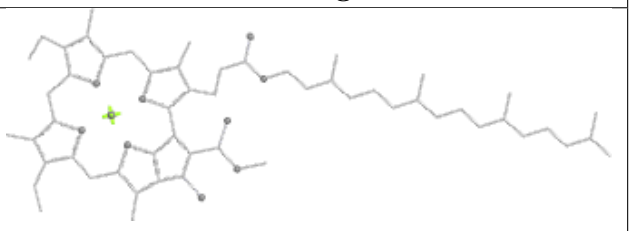
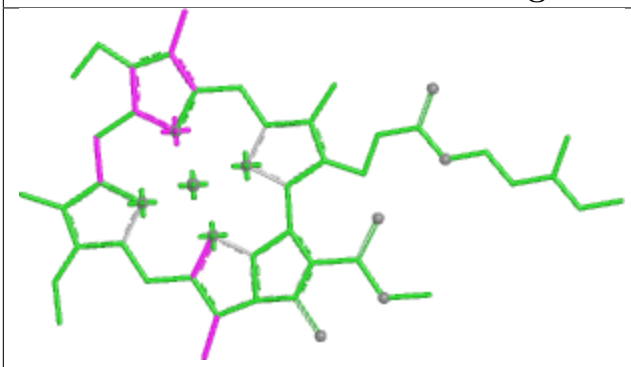


Rings

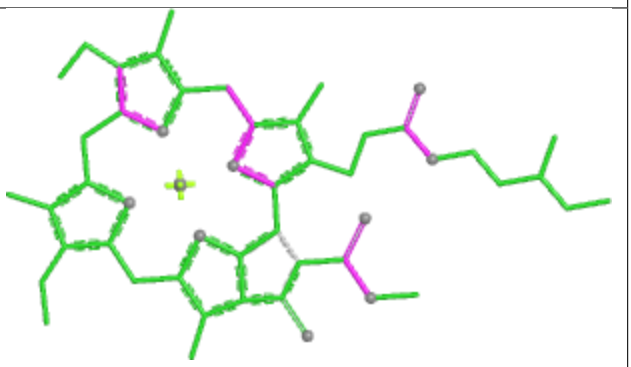
Ligand CLA 1 312	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA b 806	
	
Bond lengths	Bond angles
	
Torsions	Rings

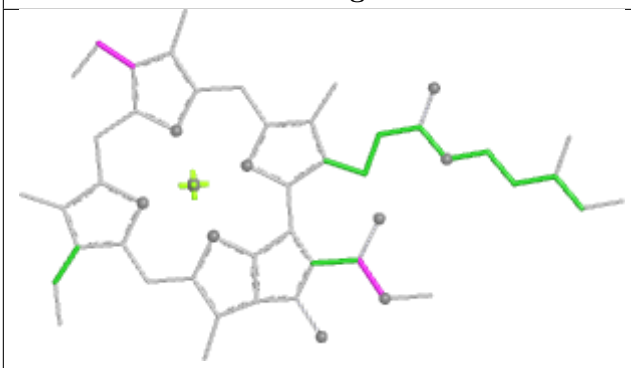
Ligand CLA a 808



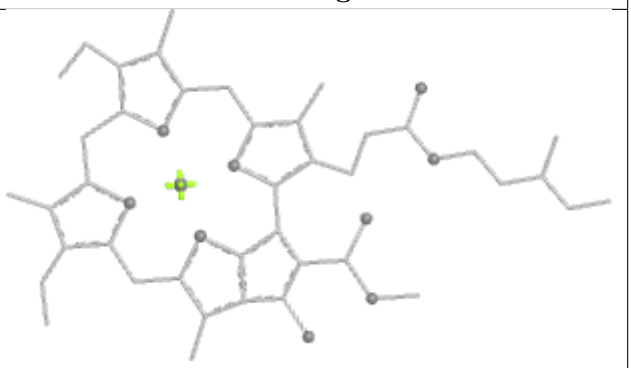
Bond lengths



Bond angles

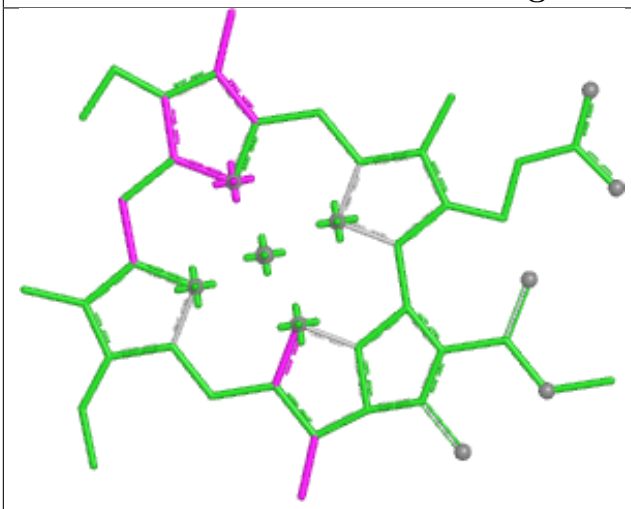


Torsions

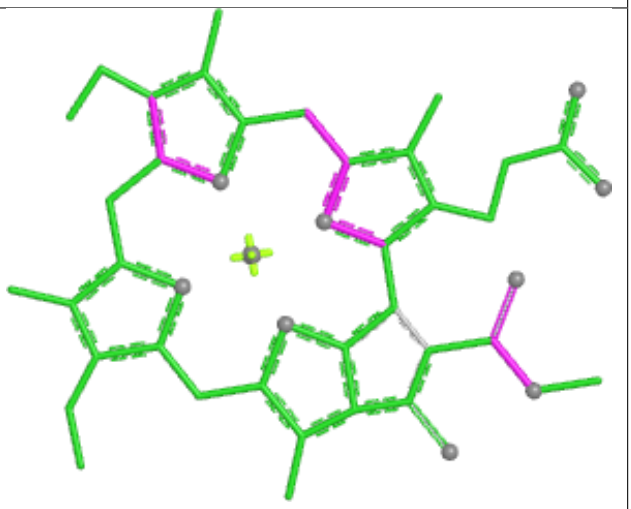


Rings

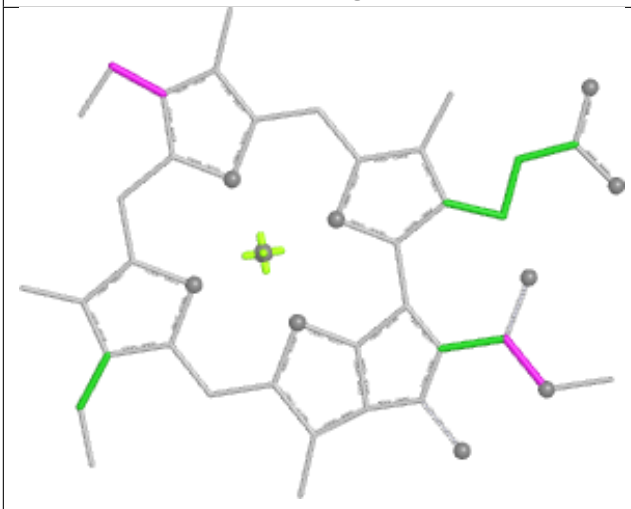
Ligand CLA a 837



Bond lengths



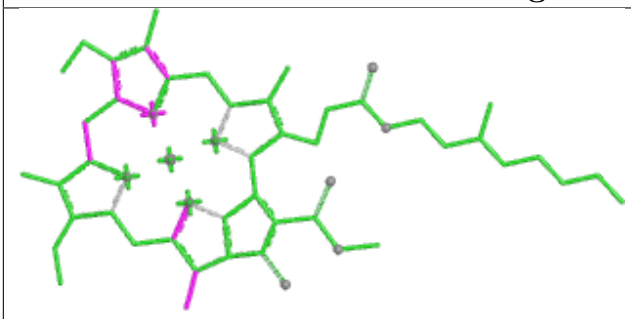
Bond angles



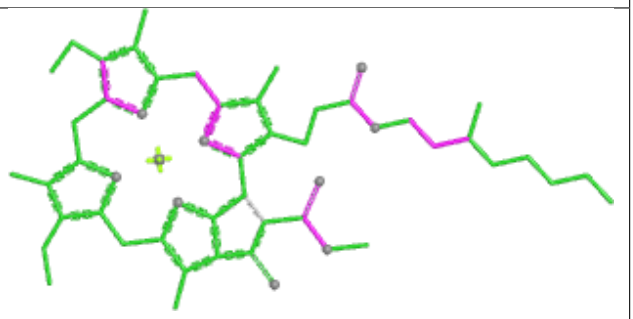
Torsions

Rings

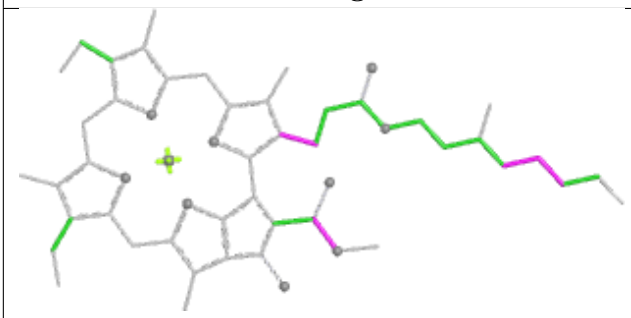
Ligand CLA 7 313



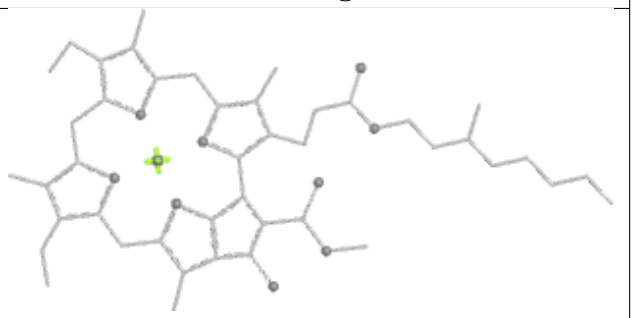
Bond lengths



Bond angles

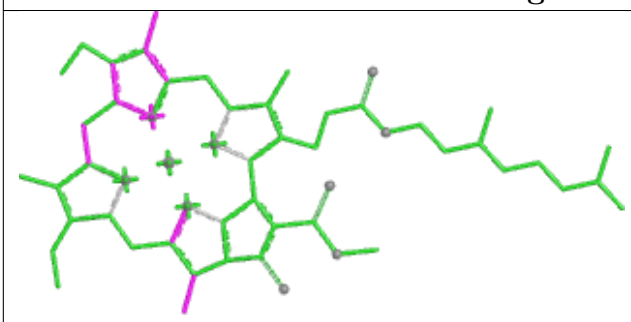


Torsions

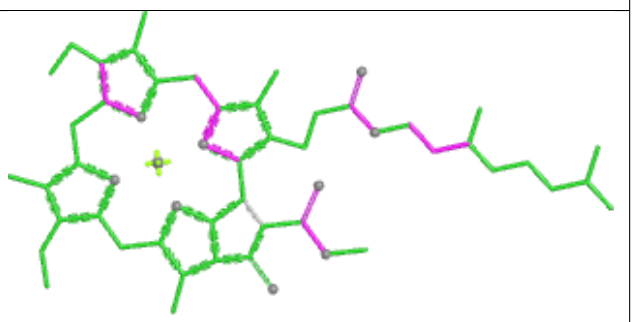


Rings

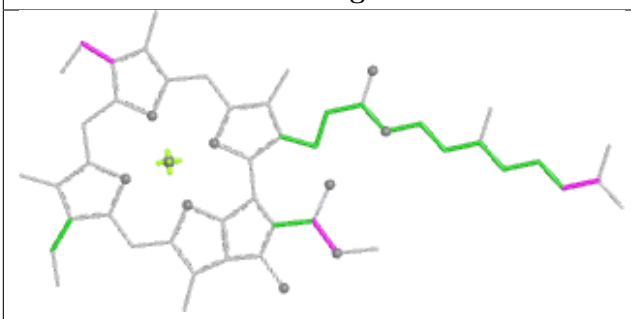
Ligand CLA b 819



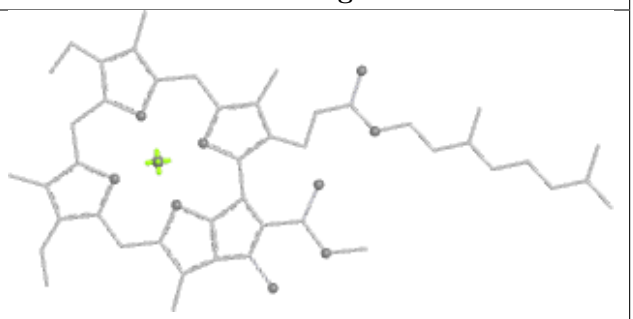
Bond lengths



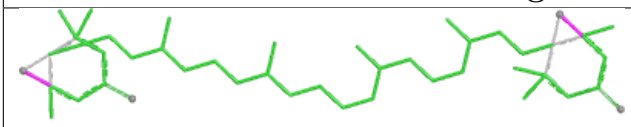
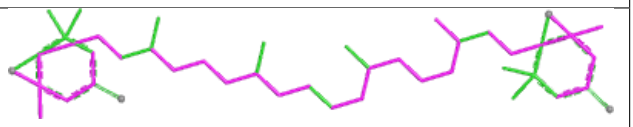
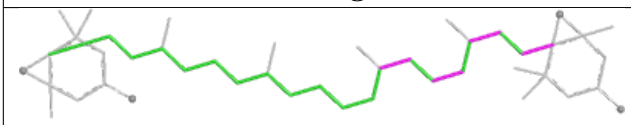
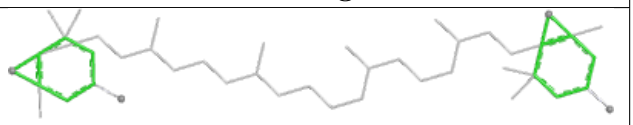
Bond angles

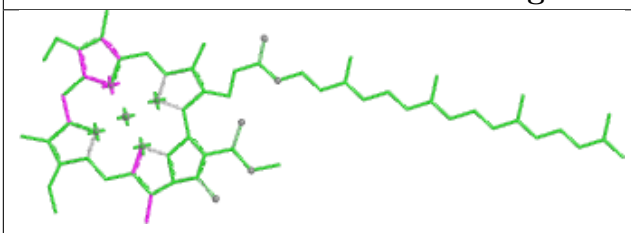
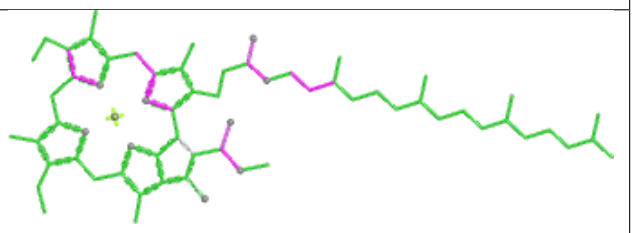
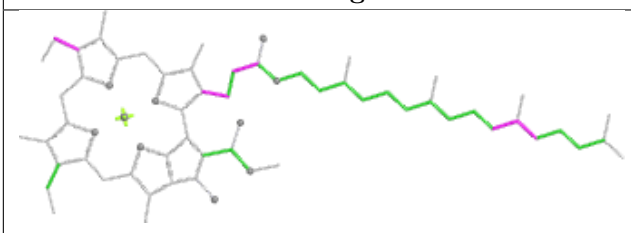
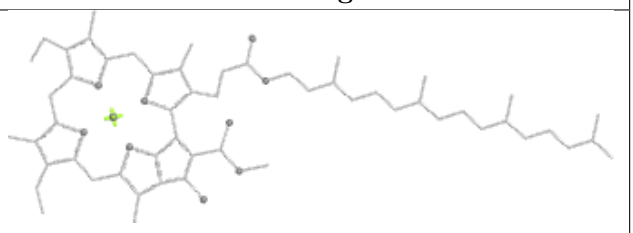


Torsions

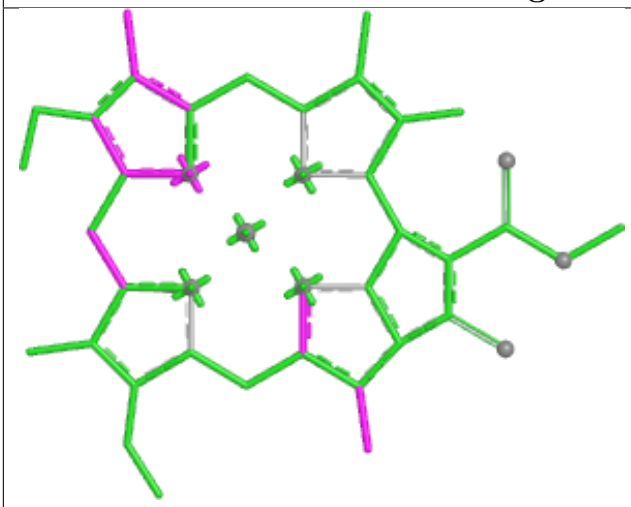


Rings

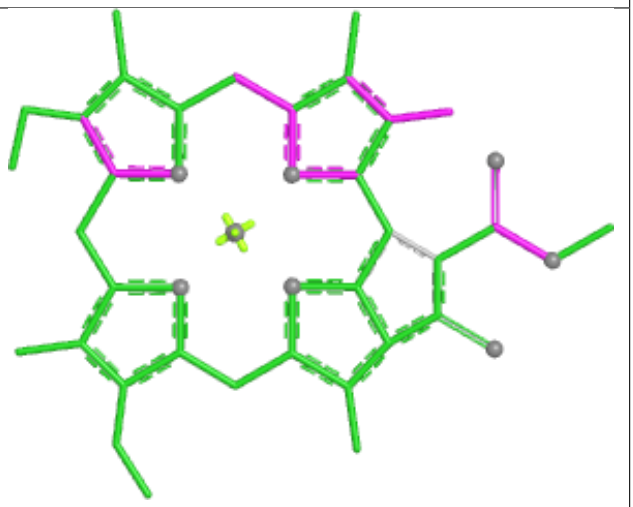
Ligand XAT 7 304	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA b 837	
 Bond lengths	 Bond angles
 Torsions	 Rings

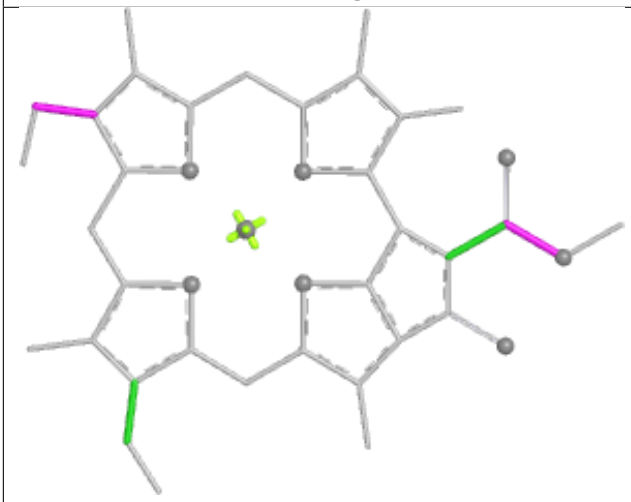
Ligand CLA 7 315



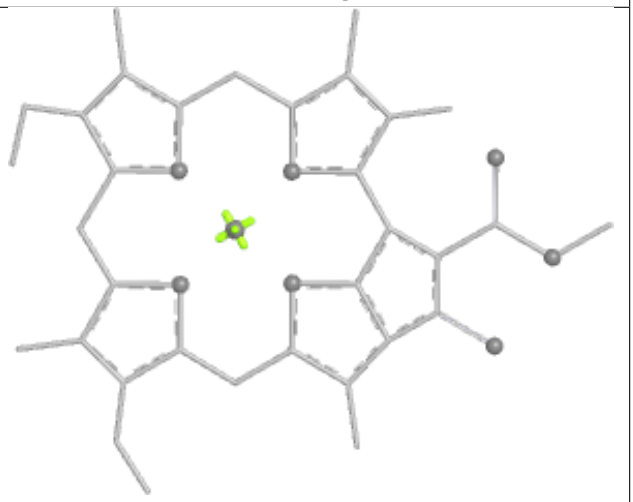
Bond lengths



Bond angles

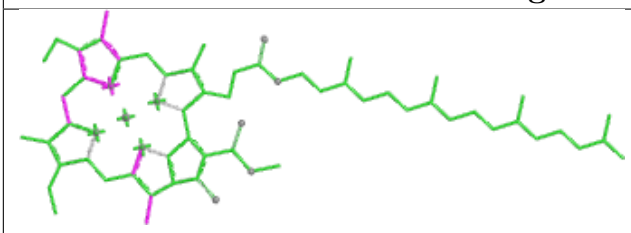


Torsions

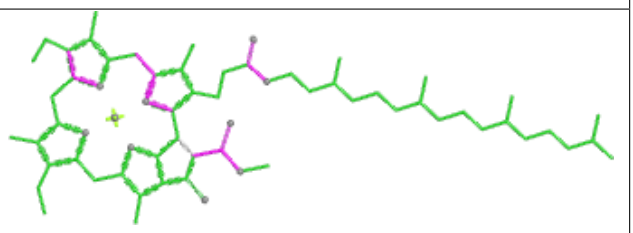


Rings

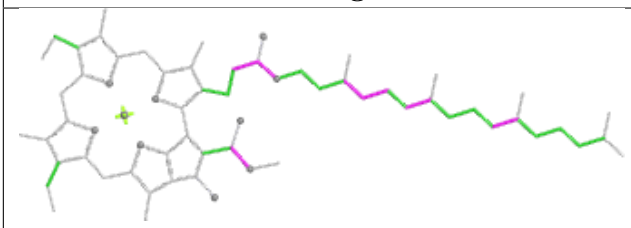
Ligand CLA a 835



Bond lengths



Bond angles



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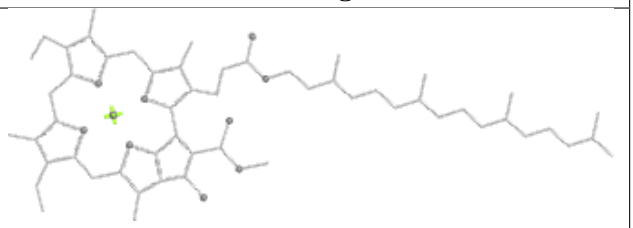
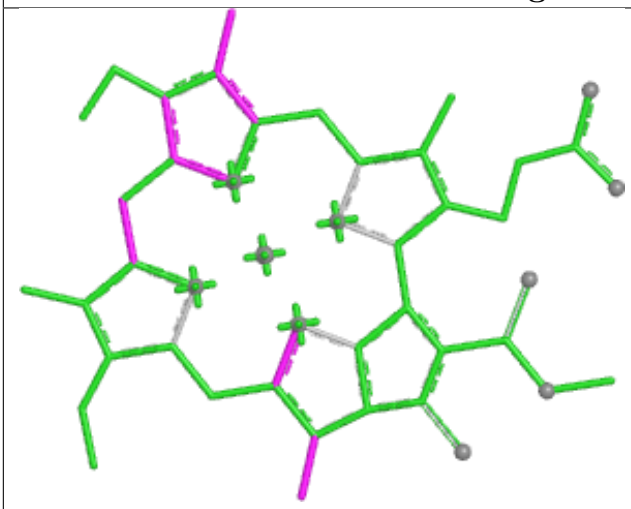
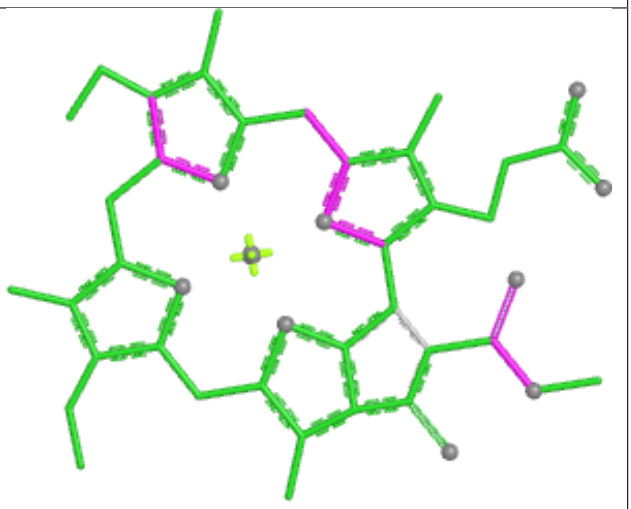


Rings

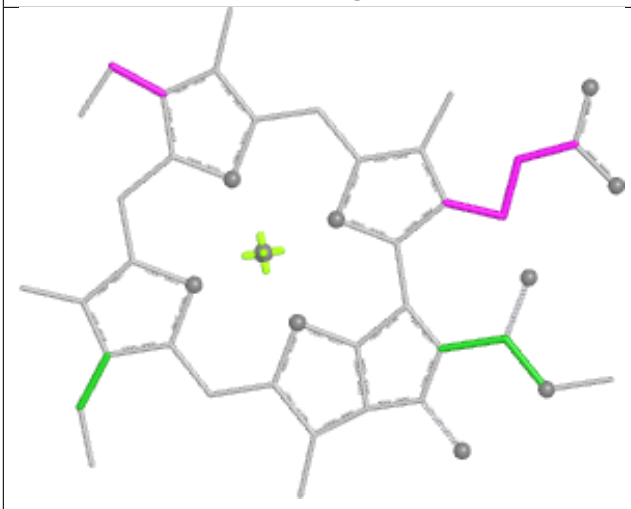
Ligand CLA 1 314



Bond lengths



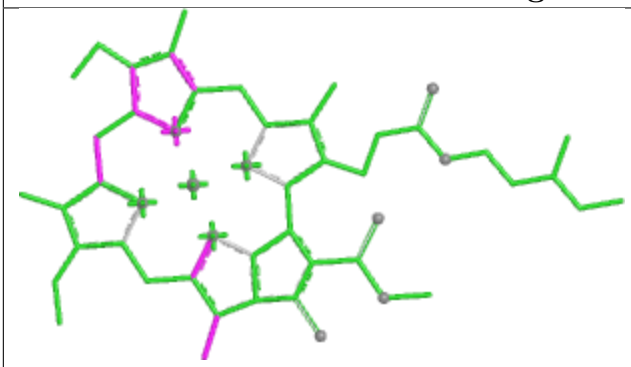
Bond angles



Torsions

Rings

Ligand CLA b 821



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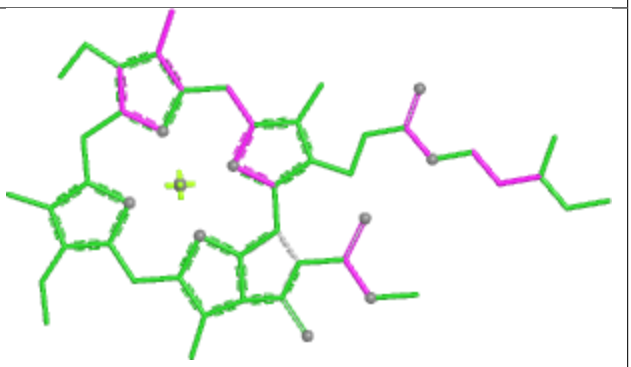
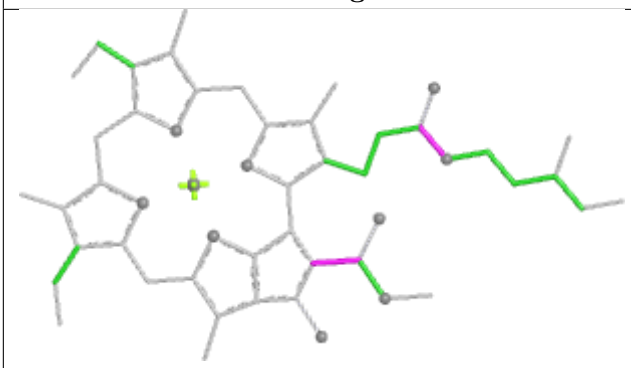


Bond angles



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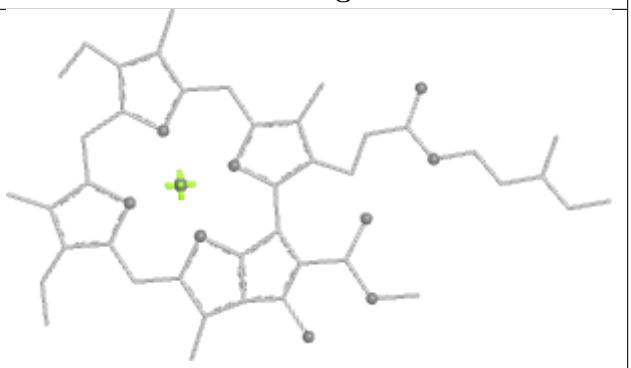
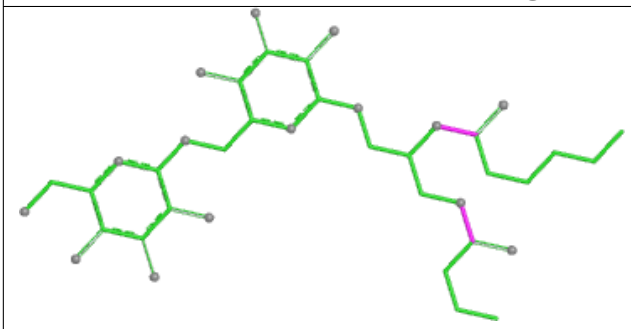
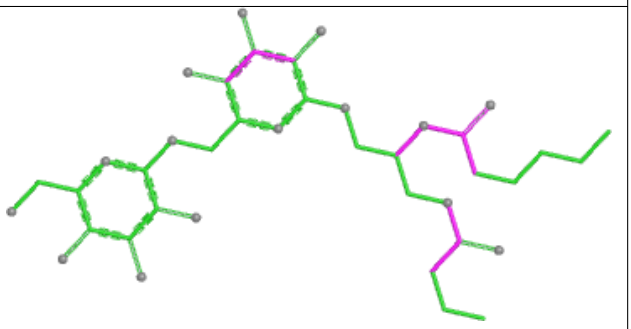


Rings

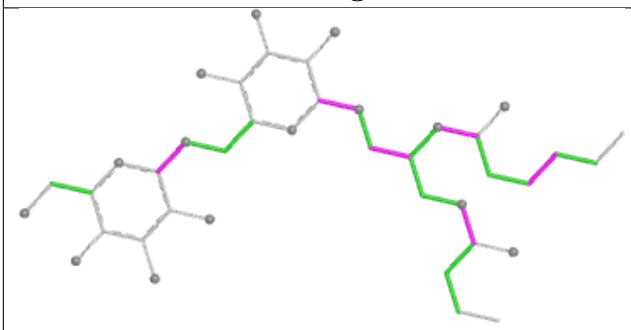
Ligand DGD 8 315



Bond lengths



Bond angles



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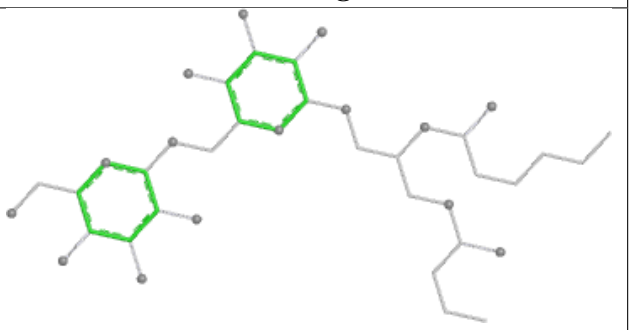
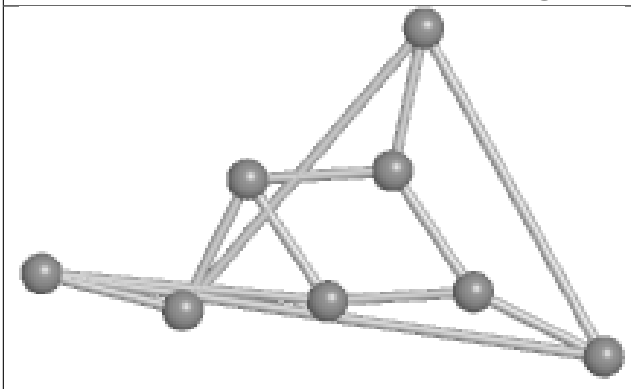
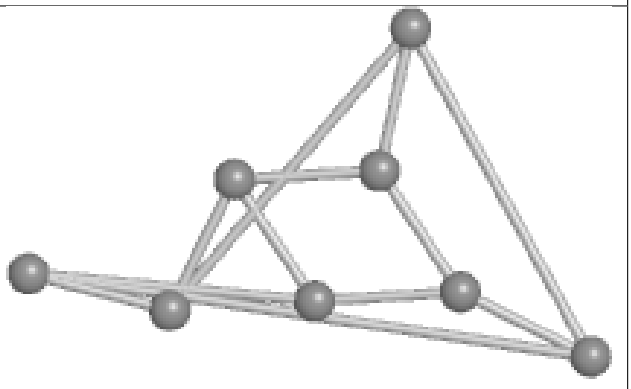


Rings

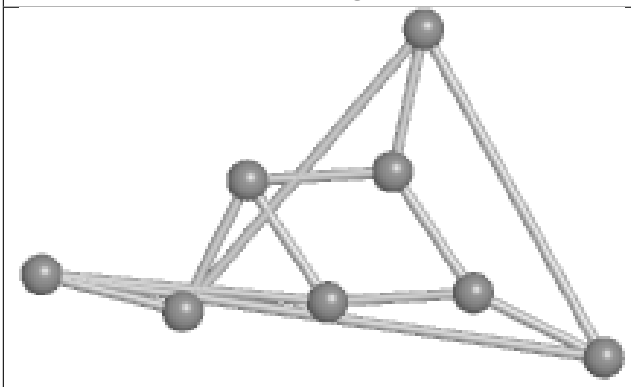
Ligand SF4 a 851



Bond lengths



Bond angles



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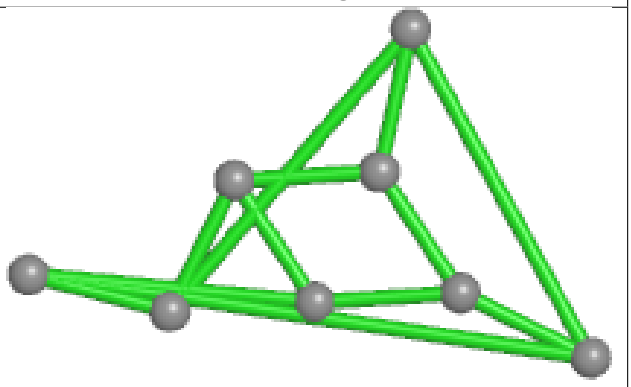
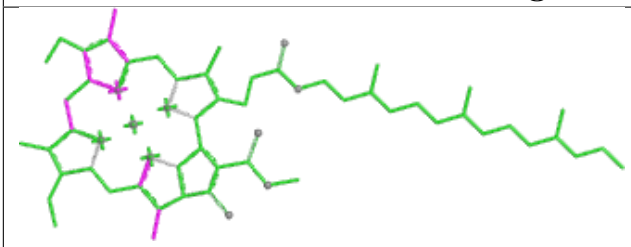


Rings

Ligand CLA 9 318



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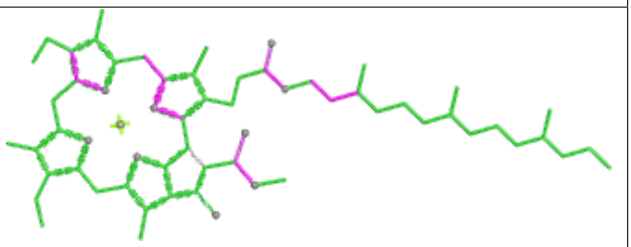
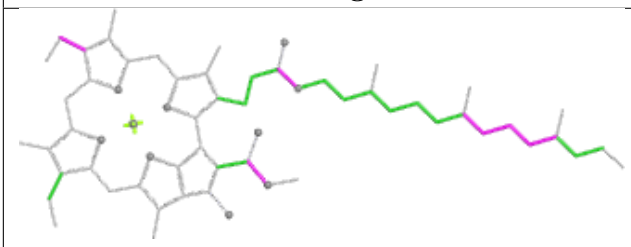


Bond angles



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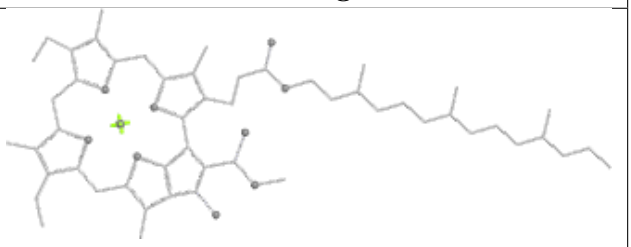
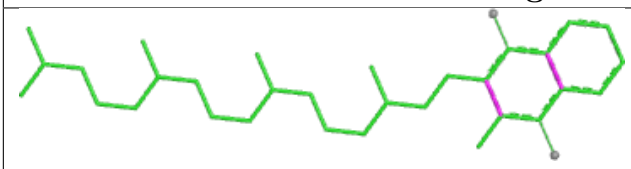


Rings

Ligand PQN a 843



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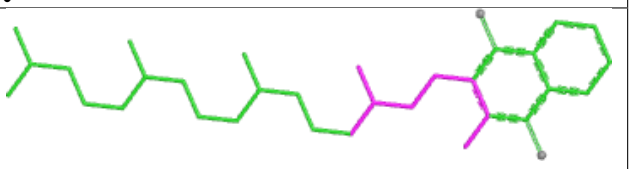
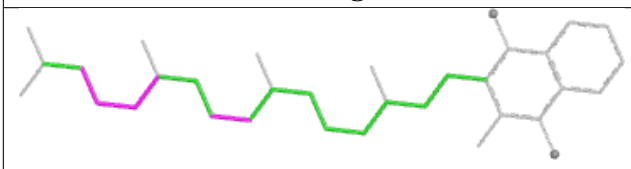


Bond angles



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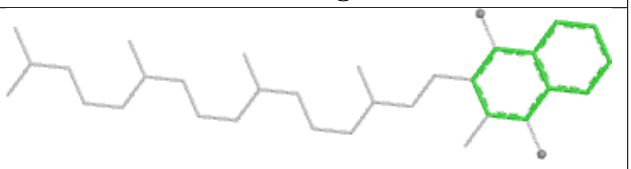
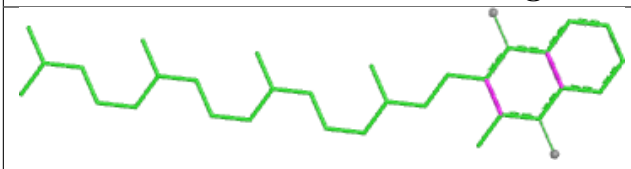
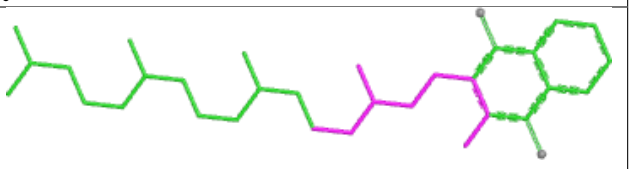


Rings

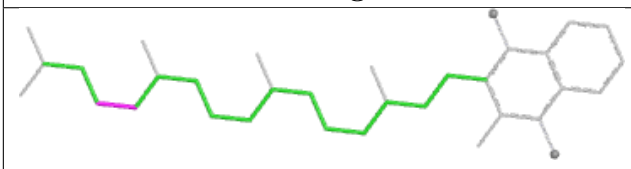
Ligand PQN b 841



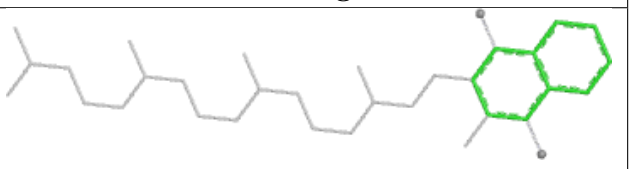
Bond lengths



Bond angles

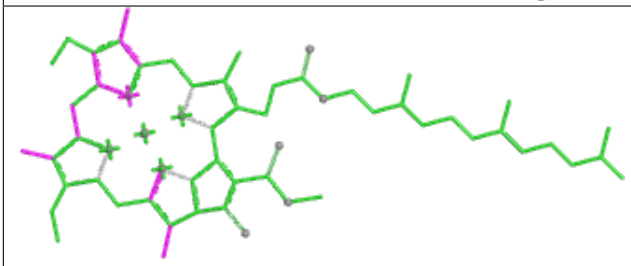


Torsions



Rings

Ligand CLA l 203



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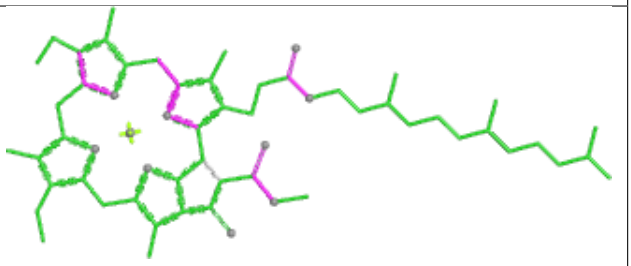
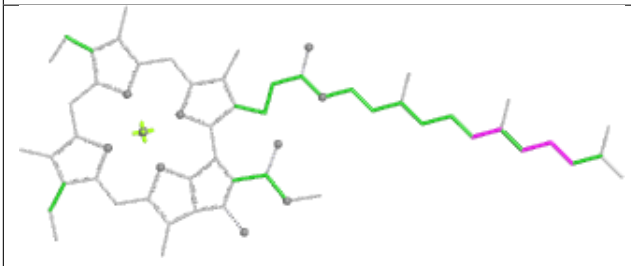
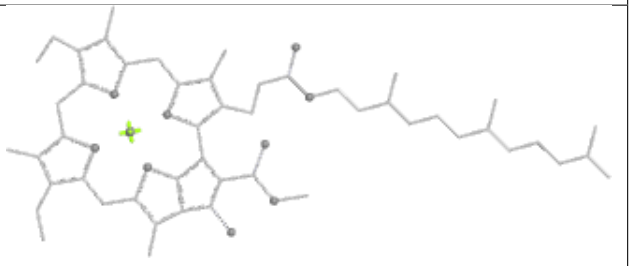


Bond angles

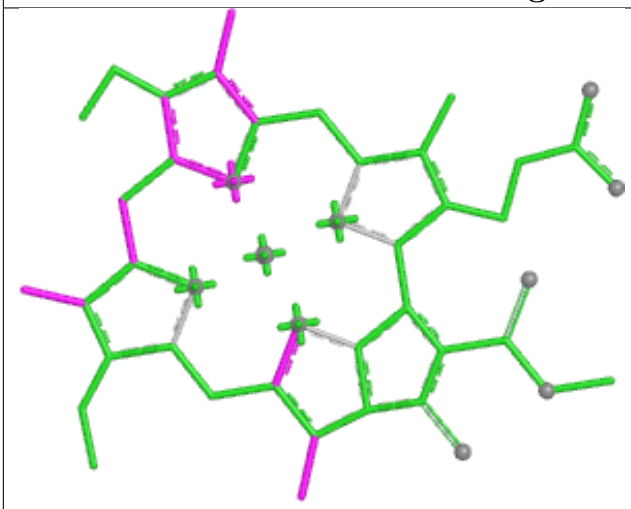


Torsions



Rings

Ligand CLA a 821



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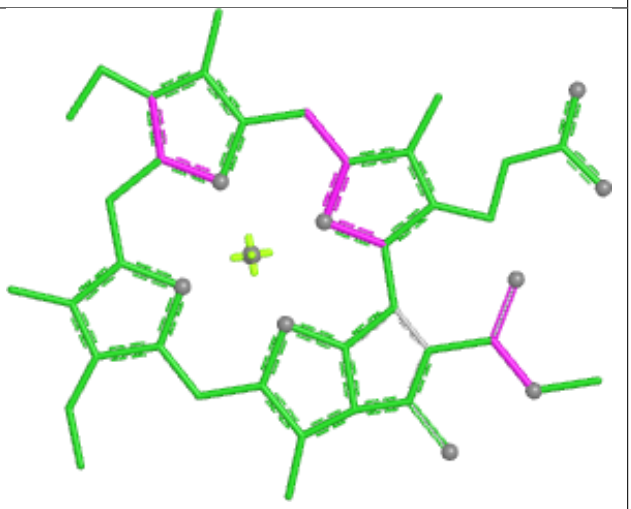
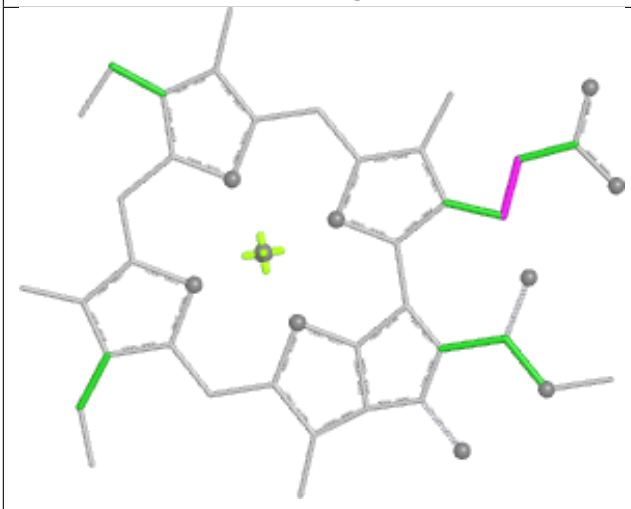


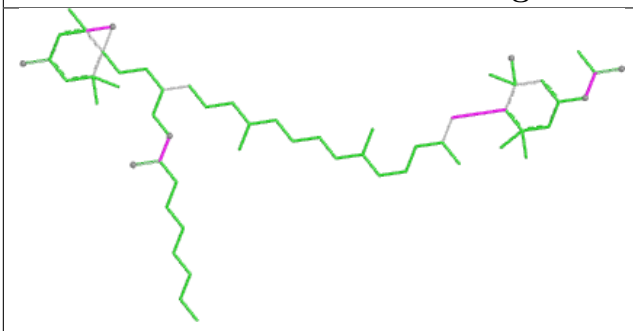
Bond angles



Torsions

Rings

Ligand A1L1F 8 304



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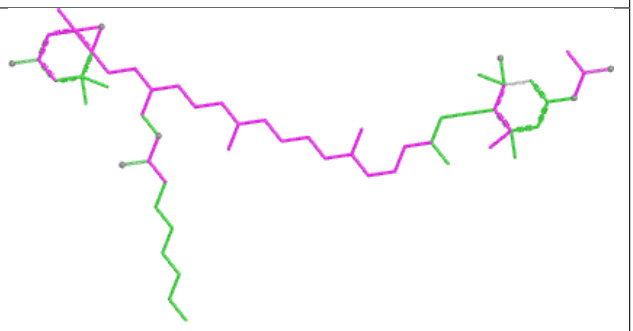
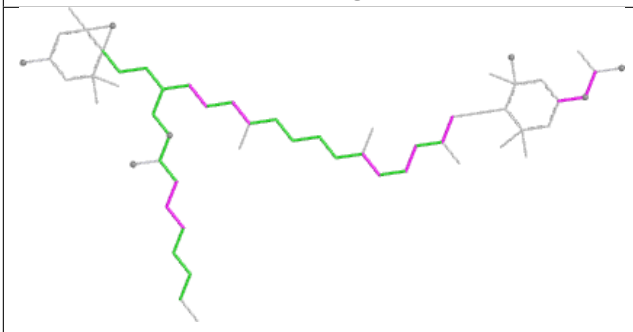
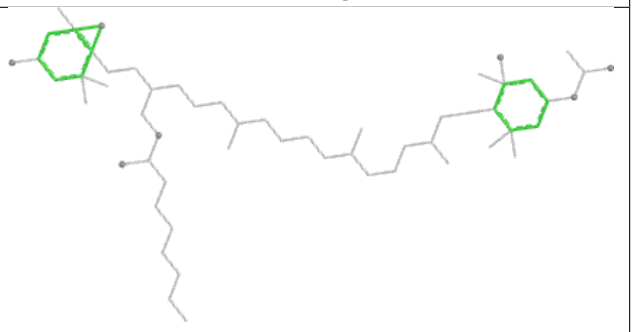


Bond angles

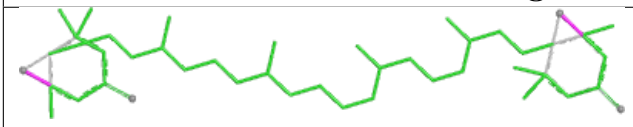


Torsions

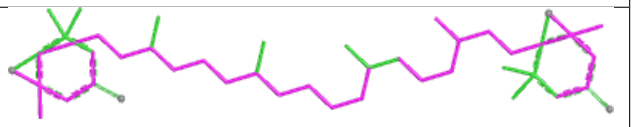


Rings

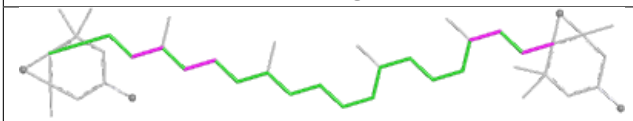
Ligand XAT 7 301



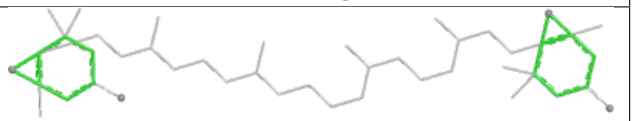
Bond lengths



Bond angles



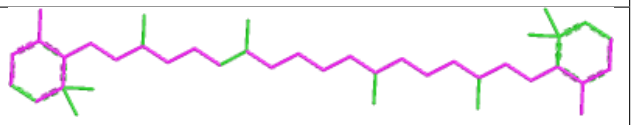
Torsions



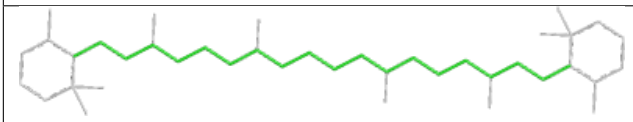
Rings

Ligand BCR a 847

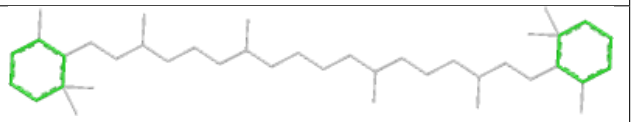
Bond lengths



Bond angles

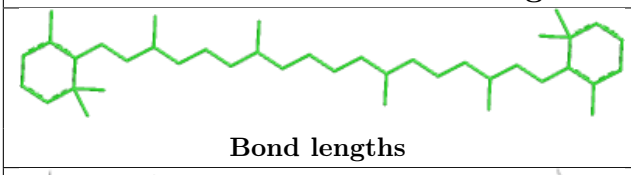


Torsions

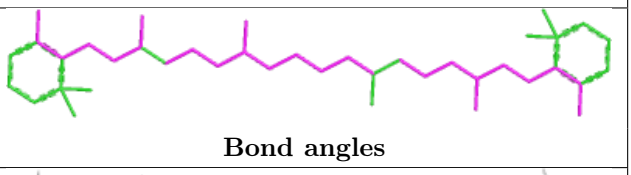


Rings

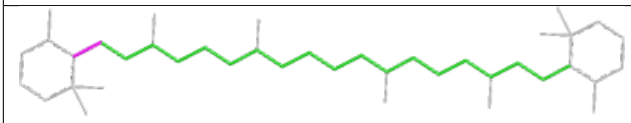
Ligand BCR b 846



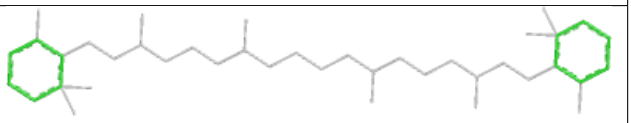
Bond lengths



Bond angles

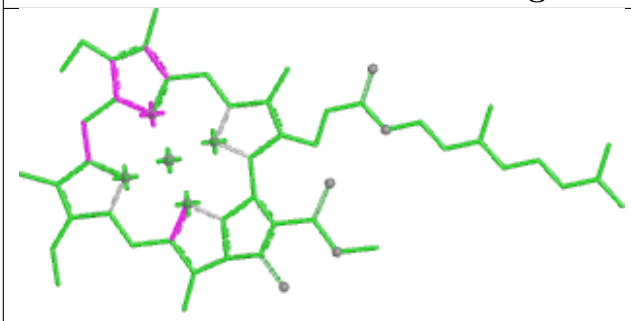


Torsions

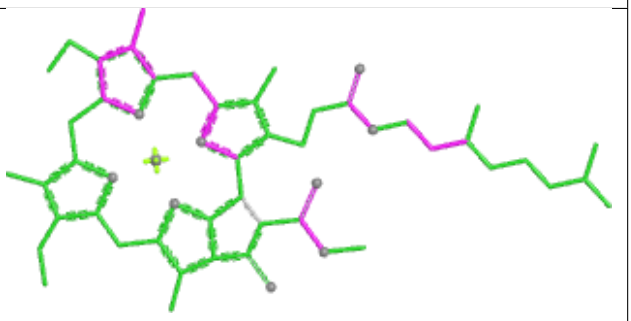


Rings

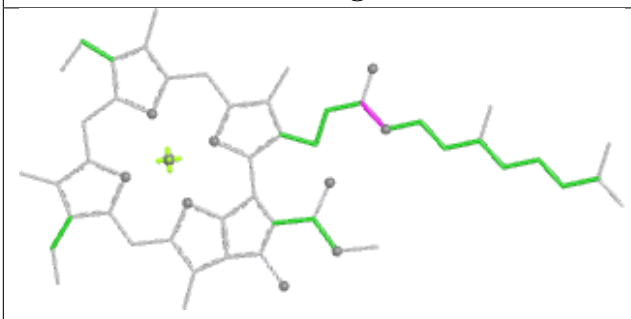
Ligand CLA a 833



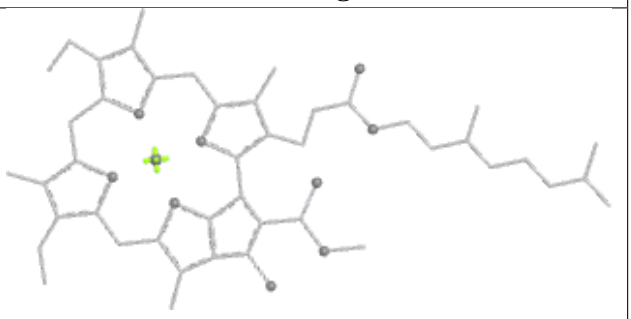
Bond lengths



Bond angles

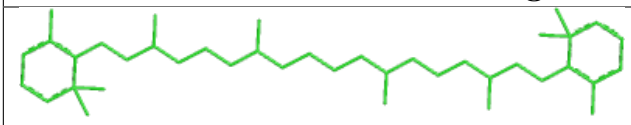


Torsions

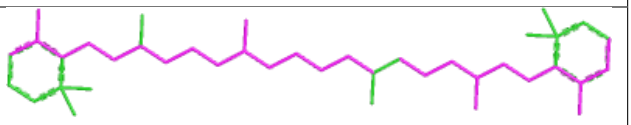


Rings

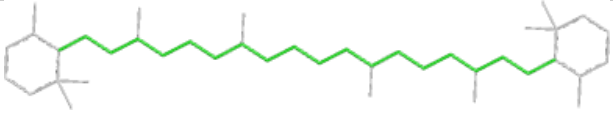
Ligand BCR h 202



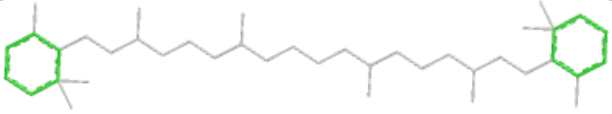
Bond lengths



Bond angles

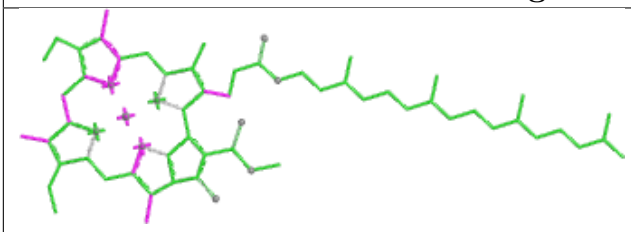


Torsions

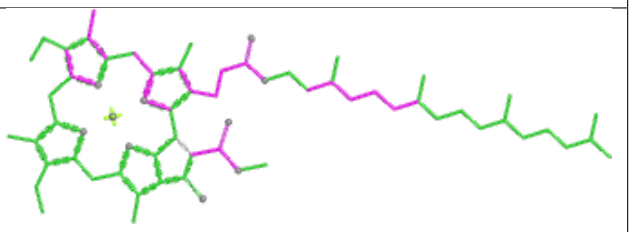


Rings

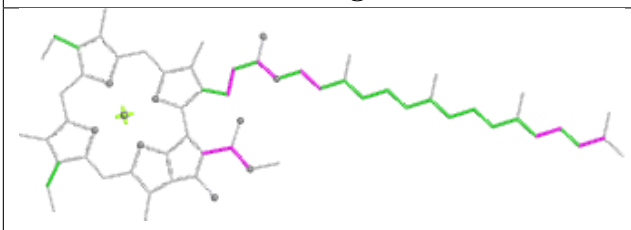
Ligand CLA a 806



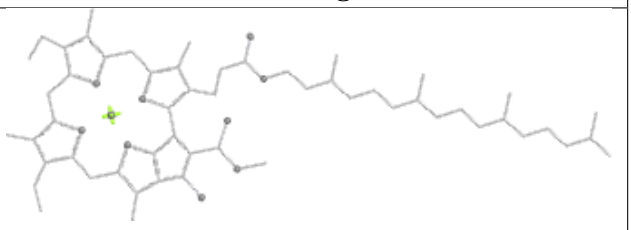
Bond lengths



Bond angles

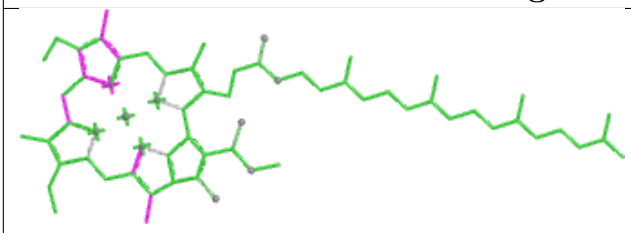


Torsions

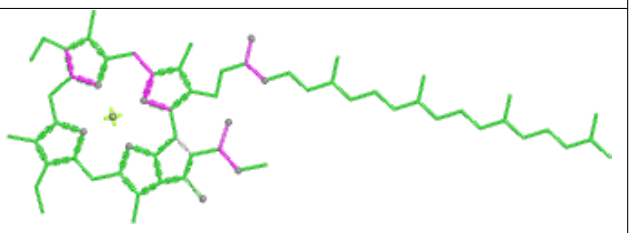


Rings

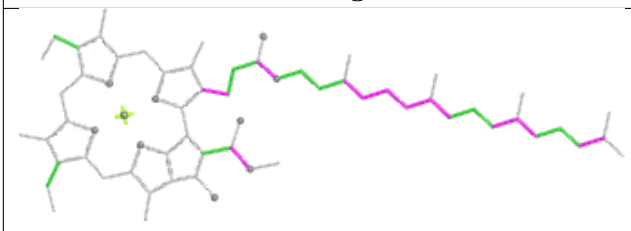
Ligand CLA 1 310



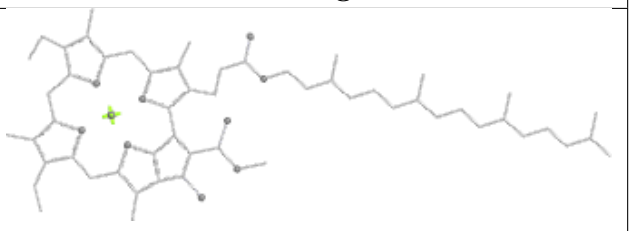
Bond lengths



Bond angles

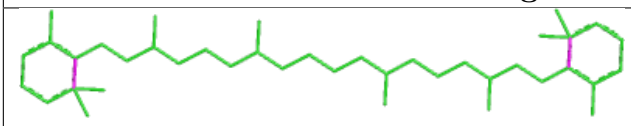


Torsions

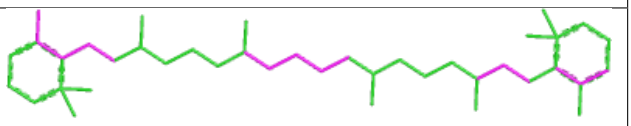


Rings

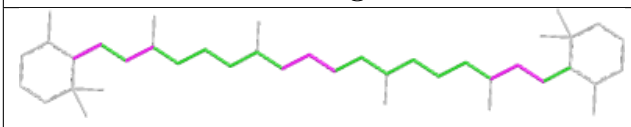
Ligand BCR m 101



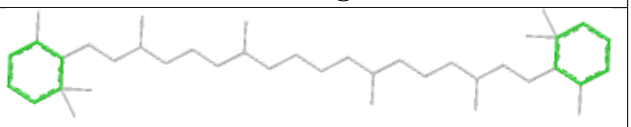
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

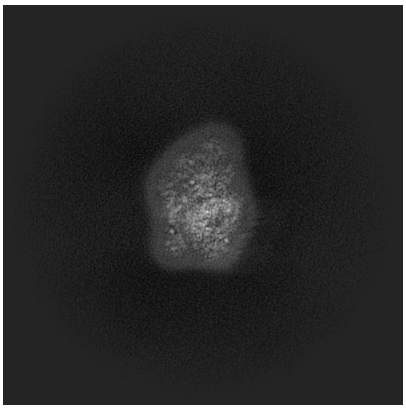
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-60290. These allow visual inspection of the internal detail of the map and identification of artifacts.

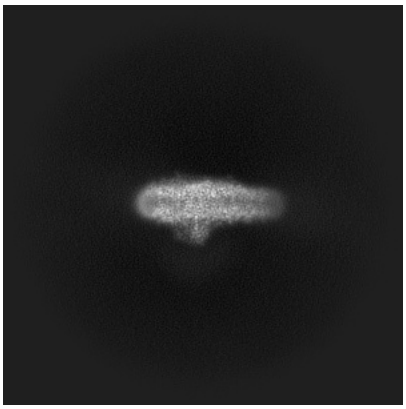
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

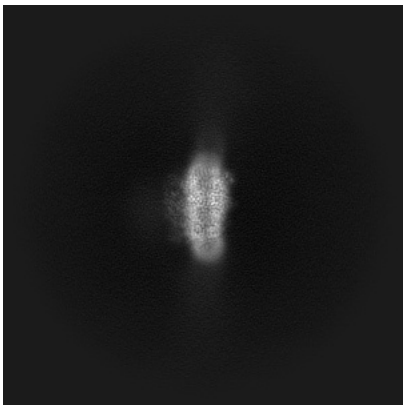
6.1.1 Primary map



X

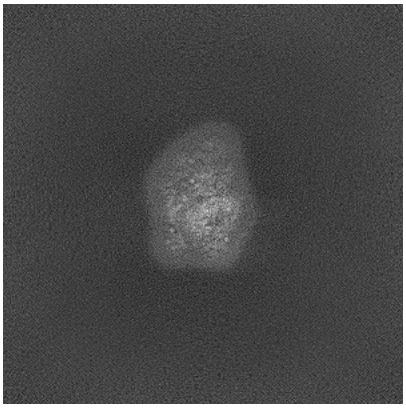


Y

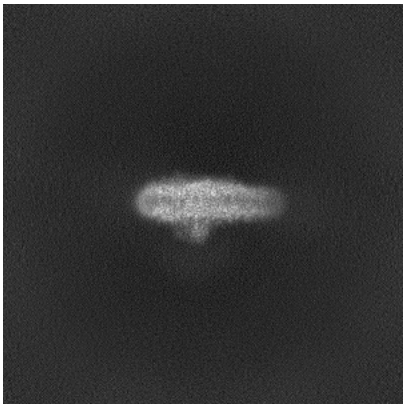


Z

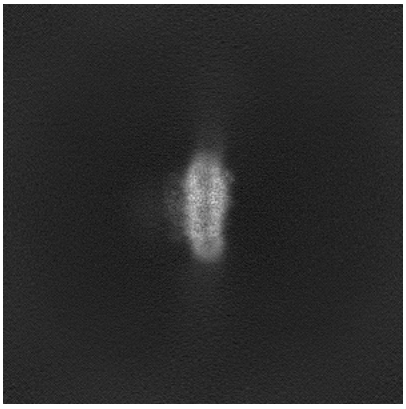
6.1.2 Raw map



X



Y

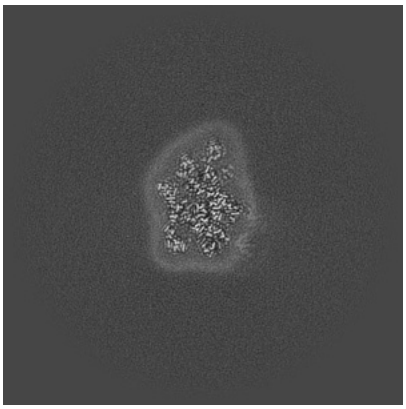


Z

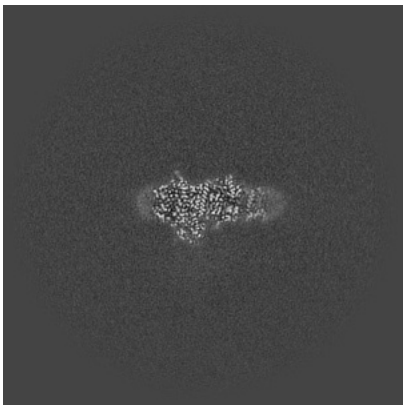
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

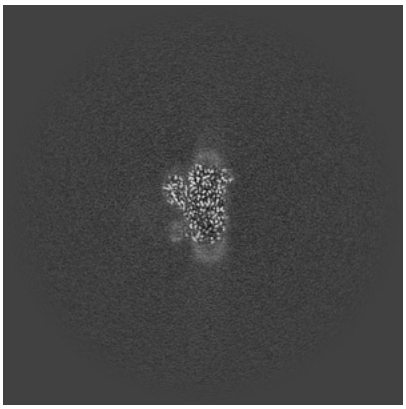
6.2.1 Primary map



X Index: 256

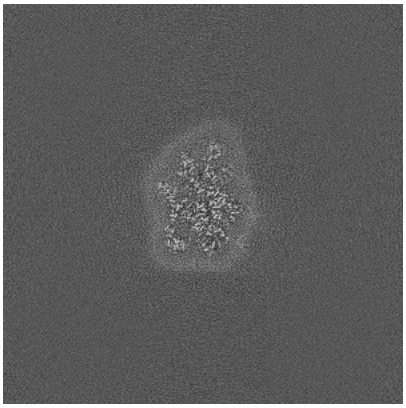


Y Index: 256

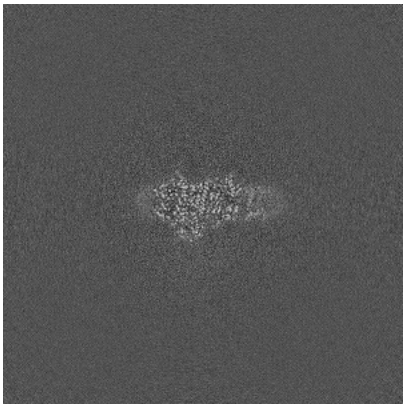


Z Index: 256

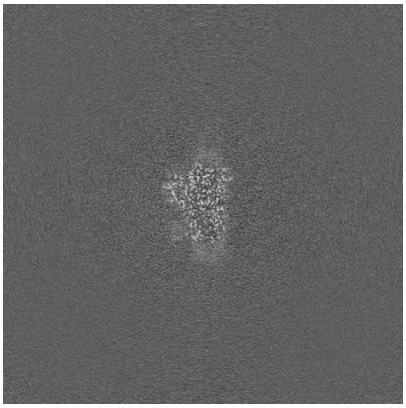
6.2.2 Raw map



X Index: 256



Y Index: 256

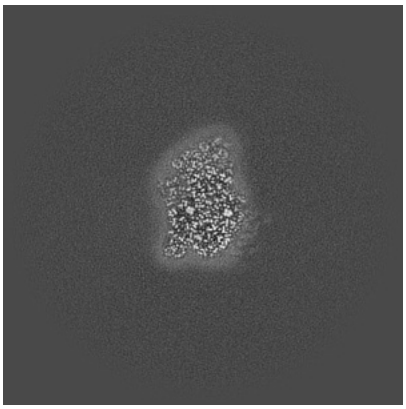


Z Index: 256

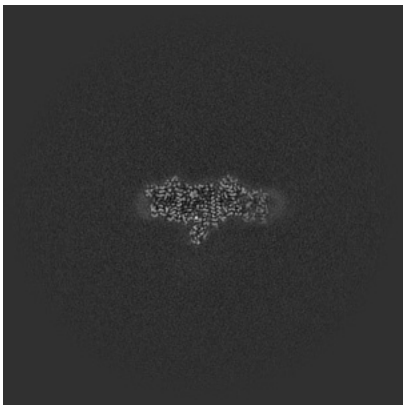
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

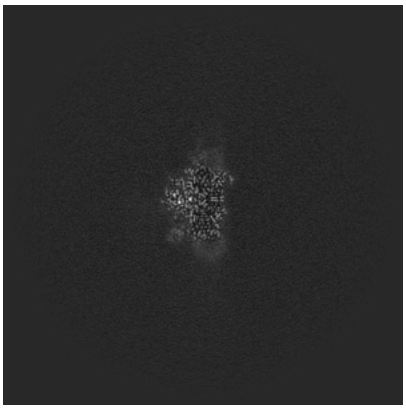
6.3.1 Primary map



X Index: 245

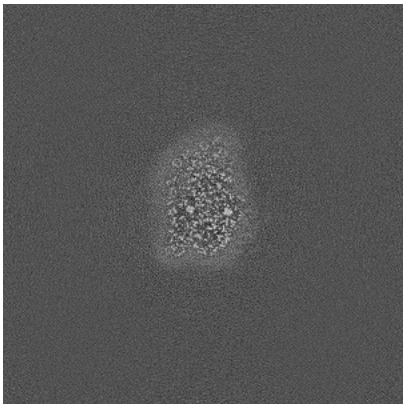


Y Index: 264

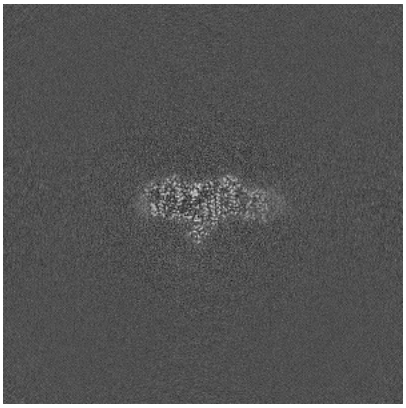


Z Index: 247

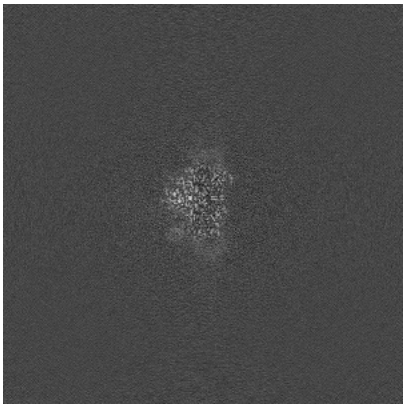
6.3.2 Raw map



X Index: 245



Y Index: 265

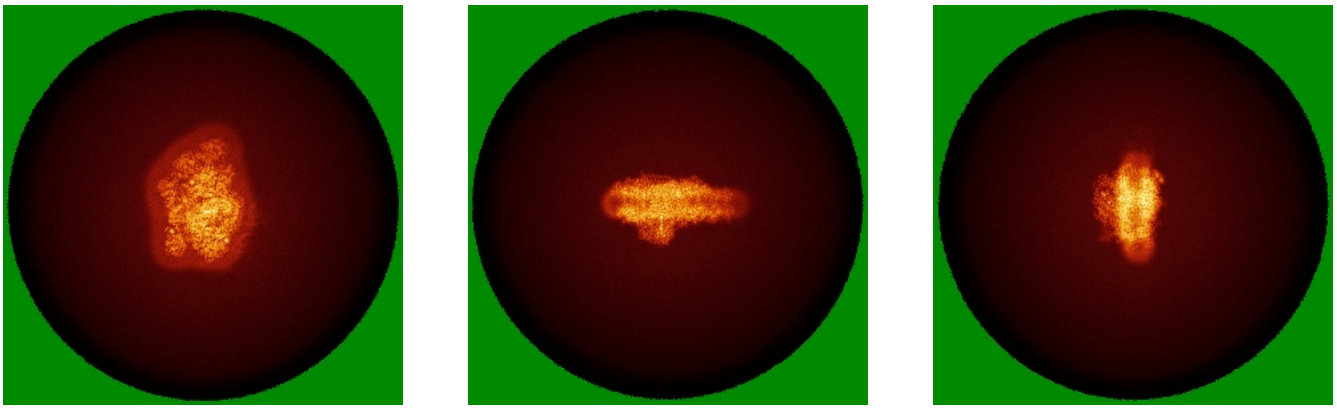


Z Index: 247

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

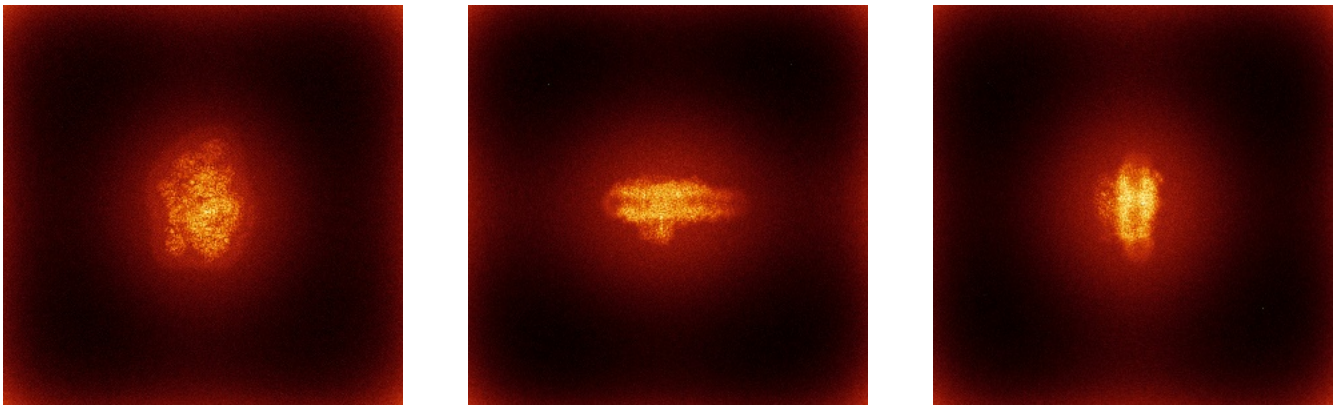
6.4 Orthogonal standard-deviation projections (False-color) (i)

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)

This section was not generated.

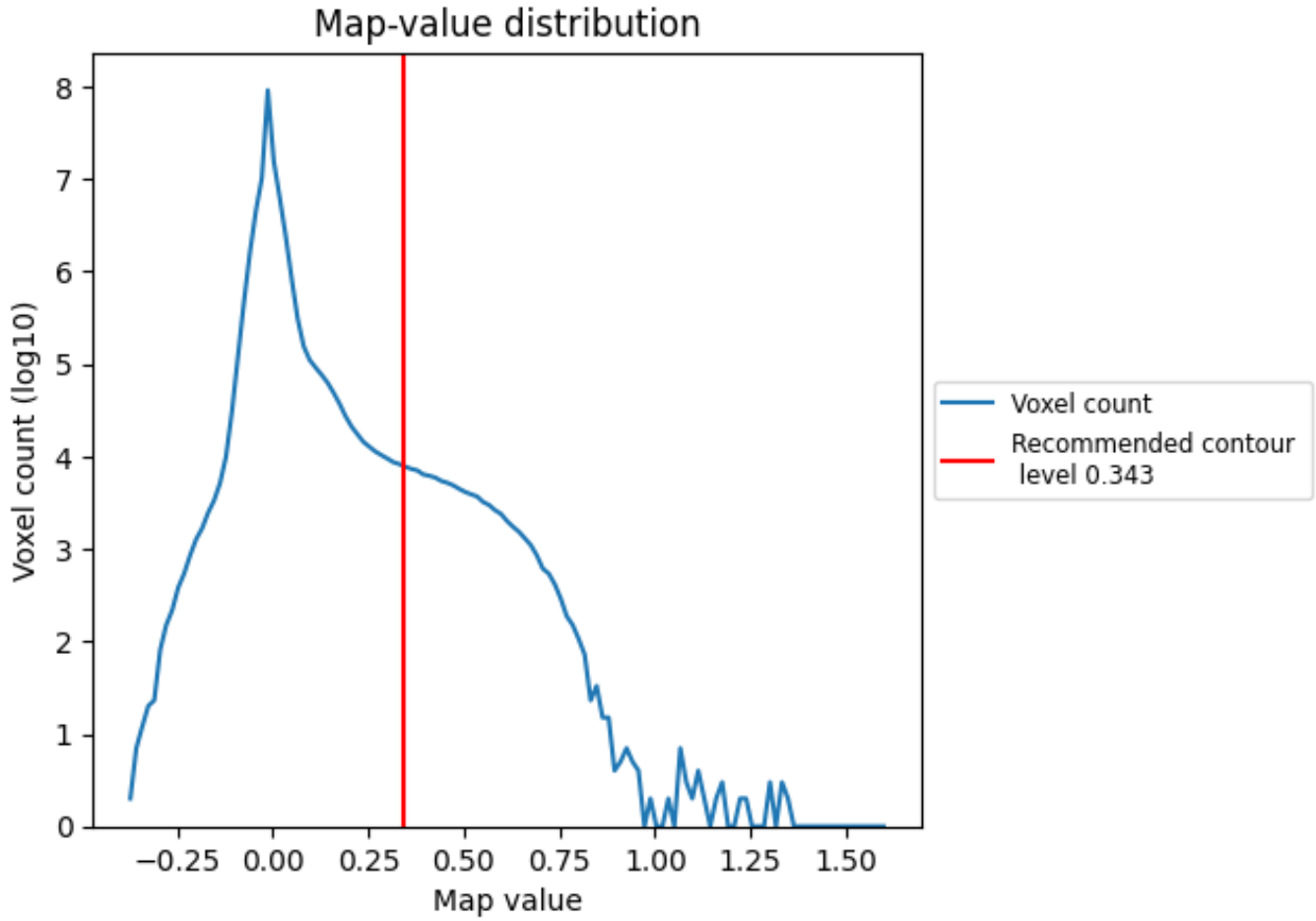
6.6 Mask visualisation (i)

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

7 Map analysis

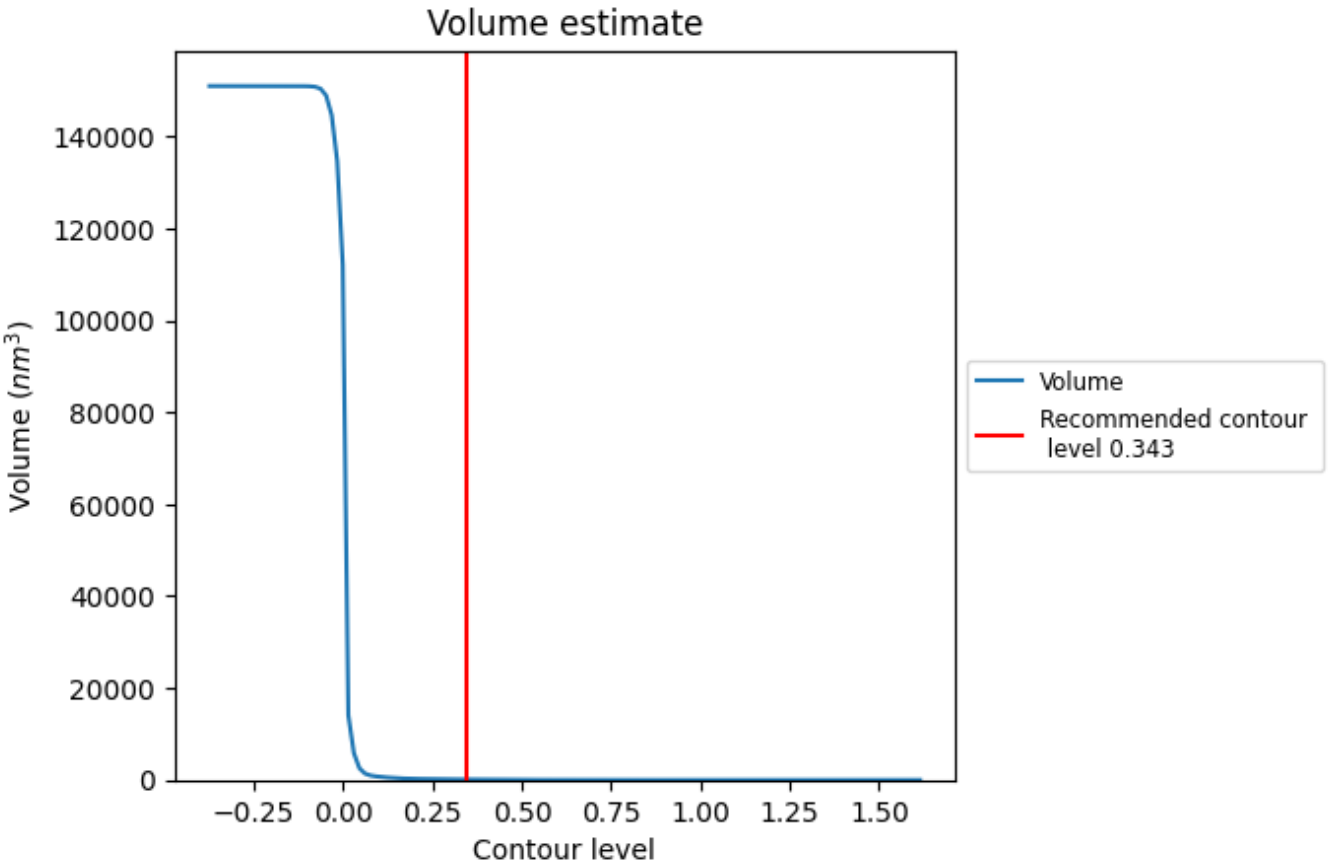
This section contains the results of statistical analysis of the map.

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.

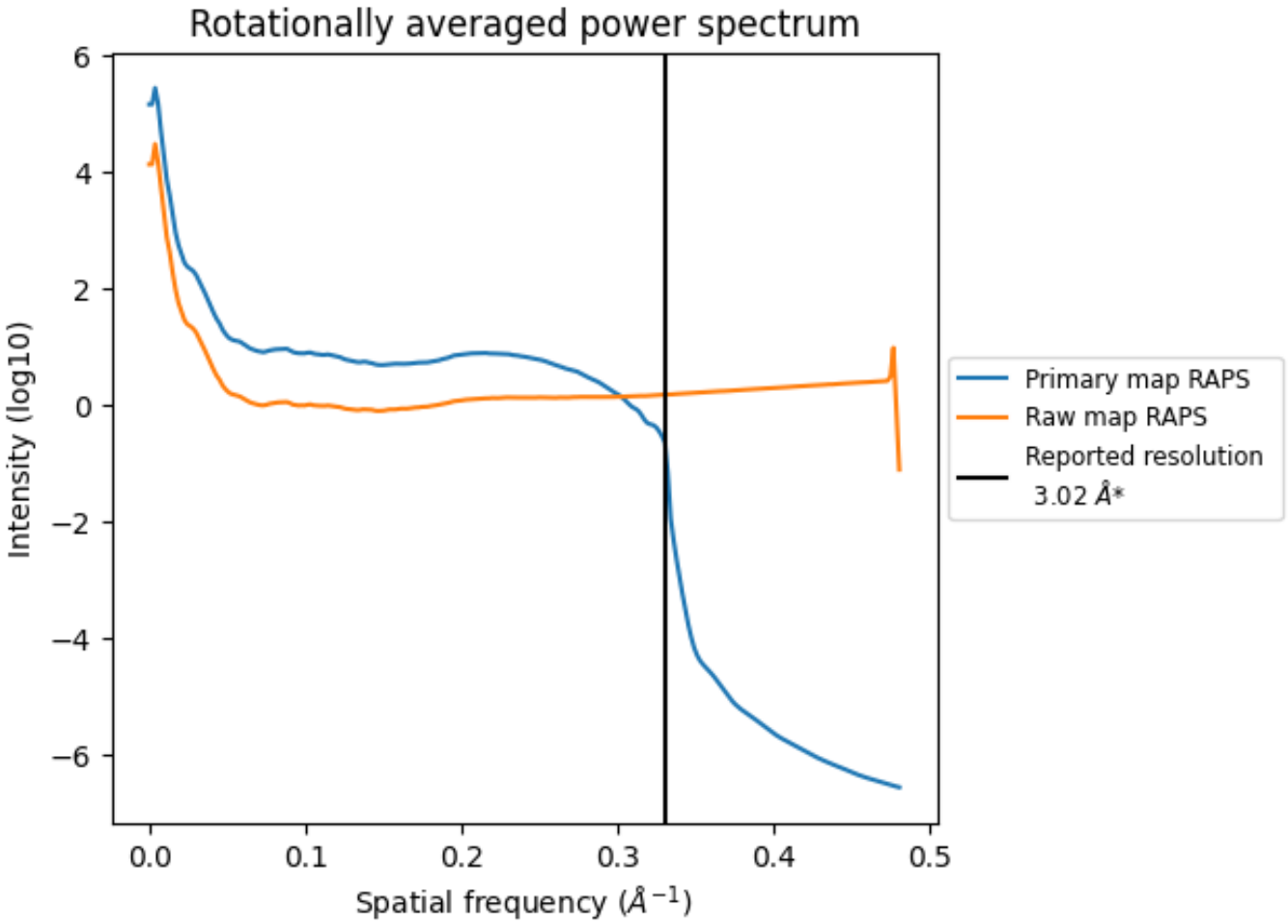
7.2 Volume estimate



The volume at the recommended contour level is 109 nm^3; this corresponds to an approximate mass of 98 kDa.

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

7.3 Rotationally averaged power spectrum (i)

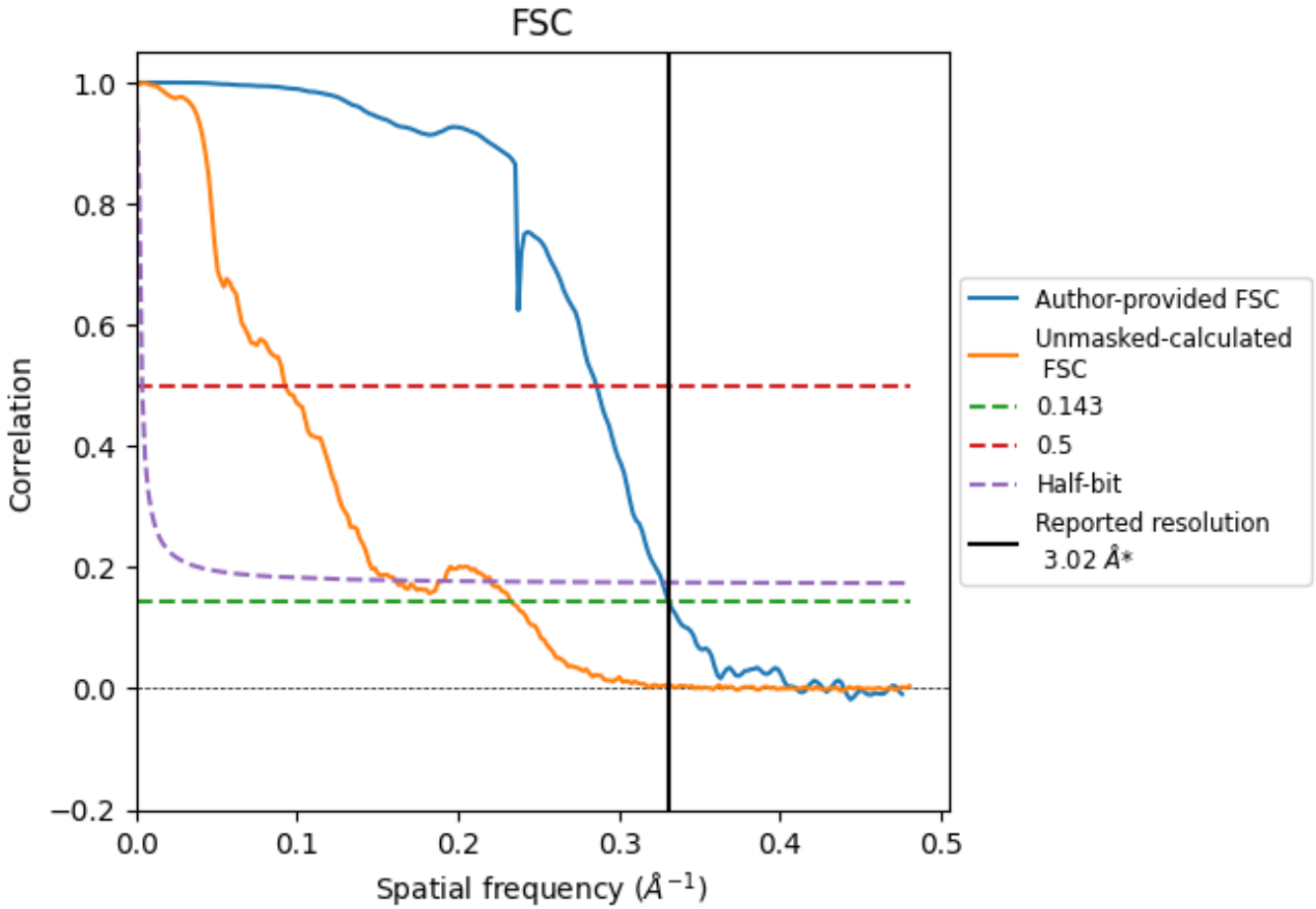


*Reported resolution corresponds to spatial frequency of 0.331 Å^{-1}

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 0.331 Å^{-1}

8.2 Resolution estimates (i)

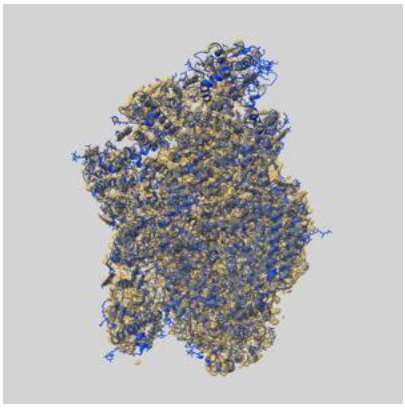
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.02	-	-
Author-provided FSC curve	3.02	3.49	3.06
Unmasked-calculated*	4.29	10.78	6.20

*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 4.29 differs from the reported value 3.02 by more than 10 %

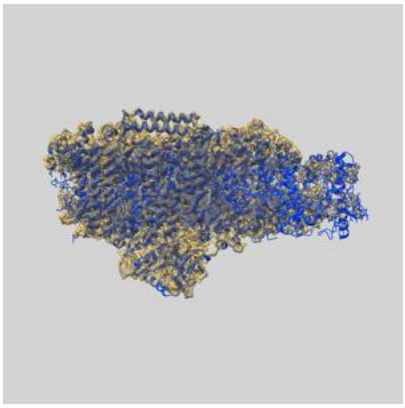
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-60290 and PDB model 8ZOE. Per-residue inclusion information can be found in section 3 on page 25.

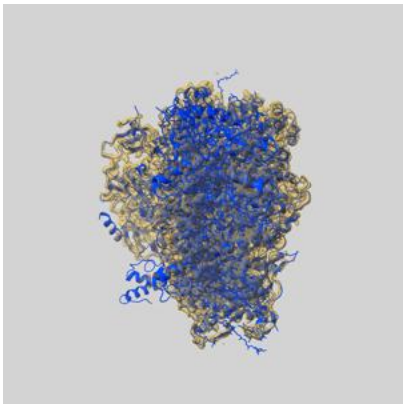
9.1 Map-model overlay



X



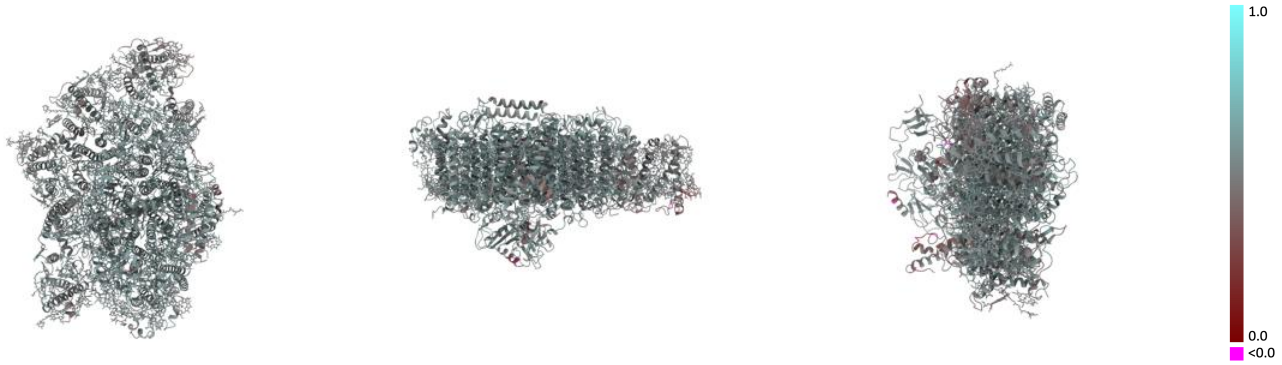
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.343 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.

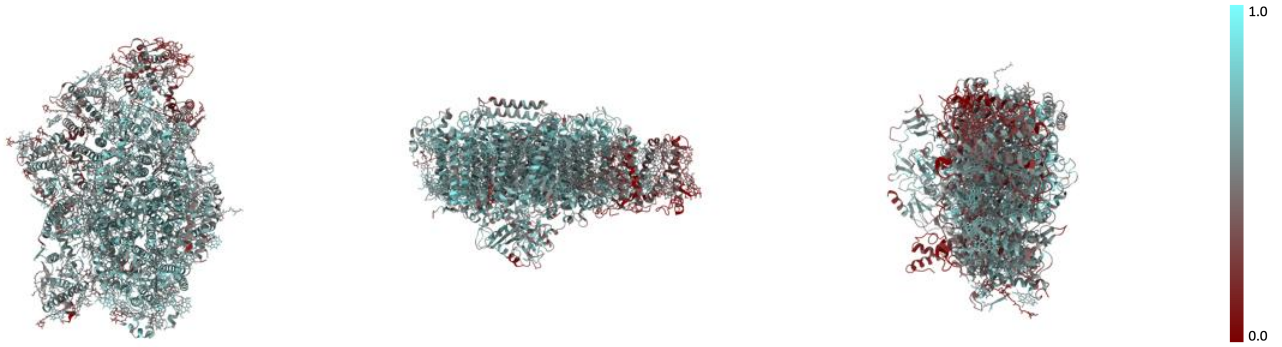
9.2 Q-score mapped to coordinate model



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.

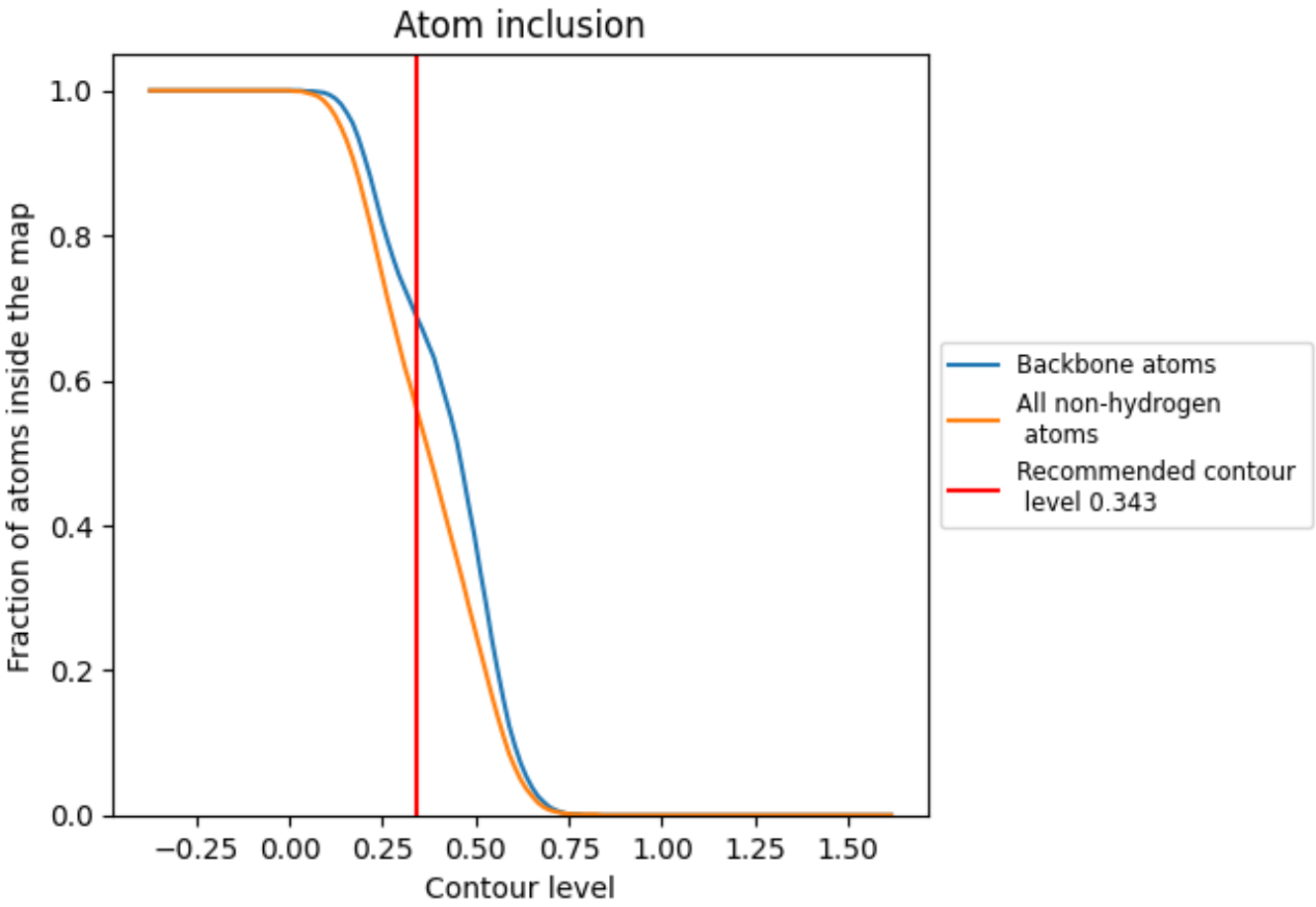
9.3 Atom inclusion mapped to coordinate model



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 (0.343).

9.4 Atom inclusion (i)



At the recommended contour level, 69% of all backbone atoms, 56% 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 (0.343) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5570	0.5290
1	0.5270	0.5130
7	0.2950	0.4690
8	0.4750	0.5070
9	0.4600	0.5090
a	0.6330	0.5490
b	0.6330	0.5530
c	0.6690	0.5330
d	0.5610	0.5350
e	0.5360	0.5270
f	0.5450	0.5040
g	0.3020	0.4240
h	0.2560	0.4810
i	0.5160	0.5240
j	0.5020	0.5350
l	0.5560	0.5060
m	0.5790	0.5080