Full wwPDB EM Validation Report ⓘ

Sep 28, 2026 – 03:38 PM JST

PDB ID	:	21WV / pdb_000021wv
EMDB ID	:	EMD-68060
Title	:	In situ structure of the C2S2M2L4-type PSII-LHCII supercomplex from Oryza sativa
Authors	:	Li, J.; Elias, E.; Zhang, K.; Croce, R.; Zhu, J.
Deposited on	:	2026-01-01
Resolution	:	2.89 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

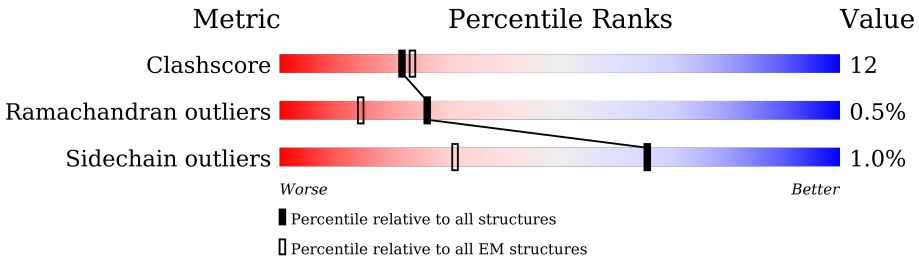
EMDB validation analysis	:	0.0.1.dev133
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.2
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

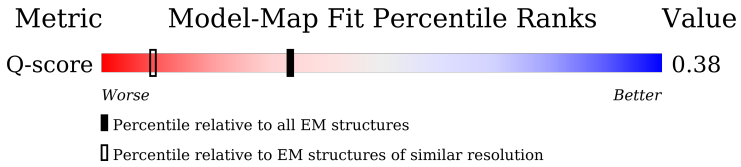
1 Overall quality at a glance

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

The reported resolution of this entry is 2.89 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	12148 (2.39 - 3.39)

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	00	219	69% 29% .
1	01	219	68% 30% .
1	02	219	80% 17% .
1	05	219	76% 19% .

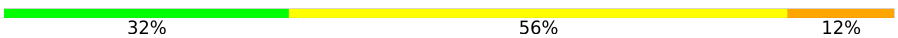
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Mol	Chain	Length	Quality of chain
1	06	219	78% 16% 5%
1	09	219	74% 23%
1	11	219	39% 98%
1	14	219	30% 98%
1	17	219	29% 97%
1	1G	219	80% 19%
1	1N	219	76% 22%
1	1g	219	79% 21%
1	1n	219	79% 20%
1	20	219	24% 98%
2	03	220	79% 20%
2	07	220	81% 18%
3	04	205	79% 18%
3	08	205	78% 21%
4	12	222	39% 100%
4	15	222	33% 100%
4	18	222	33% 100%
4	21	222	34% 100%
5	13	218	35% 100%
5	16	218	36% 100%
5	19	218	28% 100%
5	22	218	24% 100%
6	1A	334	70% 30%
6	1a	334	64% 35%
7	1B	503	73% 27%

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Mol	Chain	Length	Quality of chain
7	1b	503	
8	1C	450	
8	1c	450	
9	1D	341	
9	1d	341	
10	1E	75	
10	1e	75	
11	1F	35	
11	1f	35	
12	1H	60	
12	1h	60	
13	1I	34	
13	1i	34	
14	1J	35	
14	1j	35	
15	1K	37	
15	1k	37	
16	1L	36	
16	1l	36	
17	1M	33	
17	1m	33	
18	1O	248	
18	1o	248	
19	1P	186	
19	1p	186	

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Mol	Chain	Length	Quality of chain
20	1R	234	74% 26%
20	1r	234	80% 20%
21	1S	218	78% 20%
21	1s	218	81% 19%
22	1T	32	66% 34%
22	1t	32	75% 22%
23	1U	27	89% 11%
23	1u	27	78% 19%
24	1V	105	70% 23% 7%
24	1v	105	66% 24% 6%
25	1W	54	74% 26%
25	1w	54	67% 15% 19%
26	1X	39	77% 21%
26	1x	39	59% 38%
27	1Y	36	81% 14% 6%
27	1y	36	78% 17% 6%
28	1Z	62	65% 35%
28	1z	62	73% 26%

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
29	CLA	00	301	X	-	-	-
29	CLA	00	302	X	-	-	-
29	CLA	00	309	X	-	-	-
29	CLA	00	318	X	-	-	-
29	CLA	01	307	X	-	-	-
29	CLA	01	308	X	-	-	-
29	CLA	01	310	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
29	CLA	03	301	X	-	-	-
29	CLA	06	602	X	-	-	-
29	CLA	09	301	X	-	-	-
29	CLA	09	302	X	-	-	-
29	CLA	1A	404	X	-	-	-
29	CLA	1B	601	X	-	-	-
29	CLA	1B	602	X	-	-	-
29	CLA	1B	603	X	-	-	-
29	CLA	1B	604	X	-	-	-
29	CLA	1B	605	X	-	-	-
29	CLA	1B	606	X	-	-	-
29	CLA	1B	607	X	-	-	-
29	CLA	1B	608	X	-	-	-
29	CLA	1B	609	X	-	-	-
29	CLA	1B	610	X	-	-	-
29	CLA	1B	611	X	-	-	-
29	CLA	1B	612	X	-	-	-
29	CLA	1B	613	X	-	-	-
29	CLA	1B	616	X	-	-	-
29	CLA	1C	501	X	-	-	-
29	CLA	1C	502	X	-	-	-
29	CLA	1C	503	X	-	-	-
29	CLA	1C	504	X	-	-	-
29	CLA	1C	505	X	-	-	-
29	CLA	1C	507	X	-	-	-
29	CLA	1C	508	X	-	-	-
29	CLA	1C	509	X	-	-	-
29	CLA	1C	510	X	-	-	-
29	CLA	1C	512	X	-	-	-
29	CLA	1D	401	X	-	-	-
29	CLA	1D	404	X	-	-	-
29	CLA	1G	602	X	-	-	-
29	CLA	1G	612	X	-	-	-
29	CLA	1N	303	X	-	-	-
29	CLA	1R	302	X	-	-	-
29	CLA	1S	313	X	-	-	-
29	CLA	1a	408	X	-	-	-
29	CLA	1b	602	X	-	-	-
29	CLA	1b	603	X	-	-	-
29	CLA	1b	604	X	-	-	-
29	CLA	1b	606	X	-	-	-
29	CLA	1b	608	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
29	CLA	1b	609	X	-	-	-
29	CLA	1b	610	X	-	-	-
29	CLA	1b	611	X	-	-	-
29	CLA	1b	612	X	-	-	-
29	CLA	1b	613	X	-	-	-
29	CLA	1b	614	X	-	-	-
29	CLA	1b	615	X	-	-	-
29	CLA	1b	616	X	-	-	-
29	CLA	1c	503	X	-	-	-
29	CLA	1c	504	X	-	-	-
29	CLA	1c	505	X	-	-	-
29	CLA	1c	506	X	-	-	-
29	CLA	1c	508	X	-	-	-
29	CLA	1c	509	X	-	-	-
29	CLA	1c	510	X	-	-	-
29	CLA	1c	512	X	-	-	-
29	CLA	1c	514	X	-	-	-
29	CLA	1c	515	X	-	-	-
29	CLA	1d	403	X	-	-	-
29	CLA	1d	406	X	-	-	-
29	CLA	1d	407	X	-	-	-
29	CLA	1g	602	X	-	-	-
29	CLA	1g	610	X	-	-	-
29	CLA	1g	612	X	-	-	-
29	CLA	1g	613	X	-	-	-
29	CLA	1n	602	X	-	-	-
29	CLA	1n	603	X	-	-	-
29	CLA	1n	610	X	-	-	-
29	CLA	1n	611	X	-	-	-
29	CLA	1n	613	X	-	-	-
29	CLA	1r	309	X	-	-	-
29	CLA	1s	312	X	-	-	-
29	CLA	1s	315	X	-	-	-
30	CHL	00	306	X	-	-	-
30	CHL	00	307	X	-	-	-
30	CHL	00	308	X	-	-	-
30	CHL	01	304	X	-	-	-
30	CHL	01	306	X	-	-	-
30	CHL	05	305	X	-	-	-
30	CHL	09	308	X	-	-	-
30	CHL	1G	601	X	-	-	-
30	CHL	1G	607	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
30	CHL	1N	302	X	-	-	-
30	CHL	1N	308	X	-	-	-
30	CHL	1N	310	X	-	-	-
30	CHL	1g	601	X	-	-	-
30	CHL	1g	609	X	-	-	-
30	CHL	1n	601	X	-	-	-
30	CHL	1n	607	X	-	-	-
30	CHL	1n	609	X	-	-	-
40	PL9	1E	102	-	-	X	-
40	PL9	1a	412	-	-	X	-

2 Entry composition (i)

There are 47 unique types of molecules in this entry. The entry contains 107869 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 Chlorophyll a-b binding protein 2, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	00	219	Total	C	N	O	S	0	0
			1659	1079	269	306	5		
1	01	219	Total	C	N	O	S	0	0
			1637	1061	268	303	5		
1	02	214	Total	C	N	O	S	0	0
			1576	1027	251	294	4		
1	05	210	Total	C	N	O	S	0	0
			1555	1003	258	289	5		
1	06	207	Total	C	N	O	S	0	0
			1450	927	242	276	5		
1	09	219	Total	C	N	O	S	0	0
			1659	1079	269	306	5		
1	11	218	Total	C	N	O		0	0
			1099	662	218	219			
1	14	218	Total	C	N	O		0	0
			1093	656	218	219			
1	17	218	Total	C	N	O		0	0
			1093	656	218	219			
1	1G	219	Total	C	N	O	S	0	0
			1658	1078	269	306	5		
1	1N	219	Total	C	N	O	S	0	0
			1652	1073	269	305	5		
1	1g	219	Total	C	N	O	S	0	0
			1655	1076	268	306	5		
1	1n	219	Total	C	N	O	S	0	0
			1653	1073	269	306	5		
1	20	218	Total	C	N	O		0	0
			1093	656	218	219			

- Molecule 2 is a protein called Chlorophyll a/b-binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	03	220	Total	C	N	O	S	0	0
			1685	1098	278	304	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	07	220	Total	C	N	O	S	0	0
			1648	1070	273	300	5		

- Molecule 3 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	04	200	Total	C	N	O	S	0	0
			1532	1003	249	276	4		
3	08	205	Total	C	N	O	S	0	0
			1570	1029	255	282	4		

- Molecule 4 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	12	222	Total	C	N	O	0	0
			1112	669	222	221		
4	15	222	Total	C	N	O	0	0
			1112	669	222	221		
4	18	222	Total	C	N	O	0	0
			1112	669	222	221		
4	21	222	Total	C	N	O	0	0
			1112	669	222	221		

- Molecule 5 is a protein called Chlorophyll a-b binding protein 1, chloroplastic.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	13	218	Total	C	N	O	0	0
			1094	658	218	218		
5	16	218	Total	C	N	O	0	0
			1094	658	218	218		
5	19	218	Total	C	N	O	0	0
			1094	658	218	218		
5	22	218	Total	C	N	O	0	0
			1094	658	218	218		

- Molecule 6 is a protein called Photosystem II protein D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	1A	334	Total	C	N	O	S	0	0
			2612	1706	430	463	13		
6	1a	333	Total	C	N	O	S	0	0
			2606	1703	429	461	13		

- Molecule 7 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	1B	503	Total	C	N	O	S	0	0
			3945	2577	663	693	12		
7	1b	503	Total	C	N	O	S	0	0
			3945	2577	663	693	12		

- Molecule 8 is a protein called Photosystem II CP43 reaction center protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	1C	450	Total	C	N	O	S	0	0
			3486	2296	582	599	9		
8	1c	450	Total	C	N	O	S	0	0
			3498	2304	583	601	10		

- Molecule 9 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	1D	340	Total	C	N	O	S	0	0
			2708	1790	442	464	12		
9	1d	341	Total	C	N	O	S	0	0
			2716	1794	444	466	12		

- Molecule 10 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	1E	75	Total	C	N	O	0	0
			614	400	100	114		
10	1e	75	Total	C	N	O	0	0
			614	400	100	114		

- Molecule 11 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	1F	35	Total	C	N	O	S	0	0
			286	192	49	44	1		
11	1f	30	Total	C	N	O	S	0	0
			241	162	41	37	1		

- Molecule 12 is a protein called Photosystem II reaction center protein H.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	1H	60	Total	C	N	O	S	0	0
			454	299	73	79	3		
12	1h	60	Total	C	N	O	S	0	0
			454	299	73	79	3		

- Molecule 13 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	1I	34	Total	C	N	O	S	0	0
			277	190	43	43	1		
13	1i	34	Total	C	N	O	S	0	0
			277	190	43	43	1		

- Molecule 14 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	1J	35	Total	C	N	O	0	0
			255	172	39	44		
14	1j	35	Total	C	N	O	0	0
			255	172	39	44		

- Molecule 15 is a protein called Photosystem II reaction center protein K.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	1K	37	Total	C	N	O	S	0	0
			305	214	44	46	1		
15	1k	37	Total	C	N	O	S	0	0
			305	214	44	46	1		

- Molecule 16 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	1L	36	Total	C	N	O	0	0
			304	201	48	55		
16	1l	35	Total	C	N	O	0	0
			295	196	46	53		

- Molecule 17 is a protein called Photosystem II reaction center protein M.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	1M	32	Total	C	N	O	0	0
			247	171	35	41		

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Mol	Chain	Residues	Atoms				AltConf	Trace
17	1m	33	Total 251	C 173	N 37	O 41	0	0

- Molecule 18 is a protein called 33 kDa subunit of oxygen evolving system of photosystem II.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	1O	247	Total 1861	C 1177	N 306	O 373	S 5	0	0
18	1o	237	Total 1795	C 1136	N 294	O 360	S 5	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1O	248	SER	-	insertion	UNP Q943W1
1o	248	SER	-	insertion	UNP Q943W1

- Molecule 19 is a protein called 23 kDa subunit of oxygen evolving system of photosystem II.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	1P	186	Total 1422	C 901	N 236	O 284	S 1	0	0
19	1p	186	Total 1422	C 901	N 236	O 284	S 1	0	0

- Molecule 20 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	1R	234	Total 1837	C 1193	N 299	O 342	S 3	0	0
20	1r	234	Total 1837	C 1193	N 299	O 342	S 3	0	0

- Molecule 21 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	1S	218	Total 1661	C 1079	N 269	O 308	S 5	0	0
21	1s	217	Total 1658	C 1075	N 270	O 308	S 5	0	0

- Molecule 22 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	1T	32	Total	C	N	O	S	0	0
			261	182	37	41	1		
22	1t	31	Total	C	N	O	S	0	0
			252	176	35	40	1		

- Molecule 23 is a protein called Os02g0581100 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	1U	27	Total	C	N	O	S	0	0
			208	130	39	36	3		
23	1u	27	Total	C	N	O	S	0	0
			208	130	39	36	3		

- Molecule 24 is a protein called Photosystem II 10 kDa polypeptide, chloroplastic.

Mol	Chain	Residues	Atoms				AltConf	Trace
24	1V	98	Total	C	N	O	0	0
			715	464	117	134		
24	1v	99	Total	C	N	O	0	0
			683	437	113	133		

- Molecule 25 is a protein called Photosystem II reaction center W protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	1W	54	Total	C	N	O	S	0	0
			413	263	61	88	1		
25	1w	44	Total	C	N	O	S	0	0
			333	219	51	62	1		

- Molecule 26 is a protein called Os07g0673550 protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
26	1X	39	Total	C	N	O	0	0
			276	181	46	49		
26	1x	38	Total	C	N	O	0	0
			272	179	45	48		

- Molecule 27 is a protein called Os08g0119800 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	1Y	34	Total	C	N	O	S	0	0
			270	176	50	43	1		

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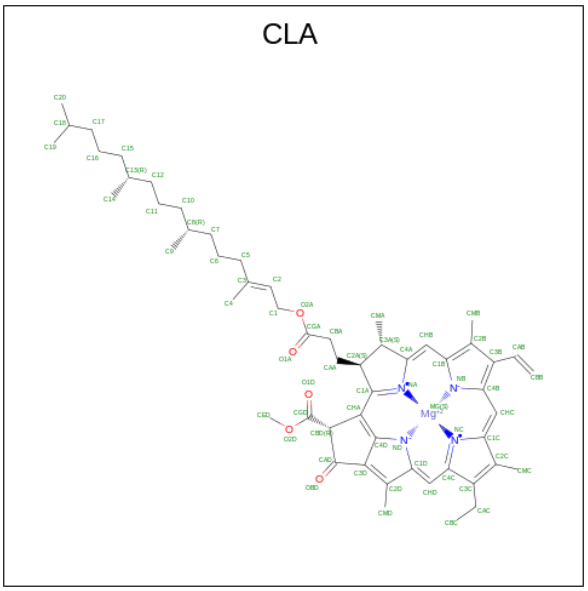
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Mol	Chain	Residues	Atoms					AltConf	Trace
27	1y	34	Total	C	N	O	S	0	0
			268	175	50	42	1		

- Molecule 28 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	1Z	62	Total	C	N	O	S	0	0
			466	313	70	82	1		
28	1z	62	Total	C	N	O	S	0	0
			466	313	70	82	1		

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



Mol	Chain	Residues	Atoms					AltConf
29	00	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	00	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	00	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
29	00	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	00	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
29	00	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	00	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	00	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	01	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	02	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	02	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	02	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	02	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	02	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	02	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	02	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	02	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	03	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	03	1	Total	C	Mg	N	O	0
			39	31	1	4	3	
29	03	1	Total	C	Mg	N	O	0
			41	33	1	4	3	

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Mol	Chain	Residues	Atoms					AltConf
29	03	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	03	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	03	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	03	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	04	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	04	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	04	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	04	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	04	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	04	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	04	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	04	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	05	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	05	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	05	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	05	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	05	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	05	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	05	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	05	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	06	1	Total	C	Mg	N	O	0
			55	45	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	06	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	06	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	06	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	06	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	06	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	07	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	07	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	07	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	07	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	07	1	Total	C	Mg	N	O	0
			48	38	1	4	5	
29	07	1	Total	C	Mg	N	O	0
			39	31	1	4	3	
29	07	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	08	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	08	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	08	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	08	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	08	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
29	08	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	08	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	09	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	09	1	Total	C	Mg	N	O	0
			56	46	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	09	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	09	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	09	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	09	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	09	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	09	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
29	1A	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	1A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			58	48	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	1B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1B	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1B	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1C	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1D	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1D	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
29	1D	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1D	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	1G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	1G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1G	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1G	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1G	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1G	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1G	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1G	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	1N	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1N	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1N	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1N	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1N	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	1N	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1N	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
29	1N	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1R	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1R	1	Total	C	Mg	N	O	0
			44	35	1	4	4	
29	1R	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	1R	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
29	1R	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1R	1	Total	C	Mg	N	O	0
			49	39	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	1R	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1R	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1R	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1S	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1S	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
29	1S	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1S	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1S	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1S	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
29	1S	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1S	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1S	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1a	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
29	1a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
29	1a	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	1b	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			50	40	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
29	1b	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	1b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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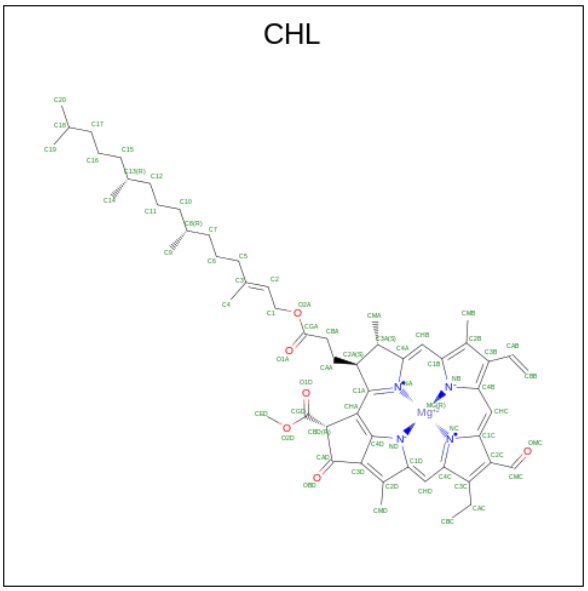
Mol	Chain	Residues	Atoms					AltConf
29	1c	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
29	1c	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
29	1d	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
29	1d	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1d	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	1g	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1g	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1n	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
29	1n	1	Total	C	Mg	N	O	0
			41	33	1	4	3	

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Mol	Chain	Residues	Atoms					AltConf
29	1r	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1r	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1r	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1r	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
29	1r	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
29	1r	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	1r	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1r	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
29	1r	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1s	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
29	1s	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
29	1s	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1s	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
29	1s	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1s	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
29	1s	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
29	1s	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
29	1s	1	Total	C	Mg	N	O	0
			46	36	1	4	5	

- Molecule 30 is CHLOROPHYLL B (CCD ID: CHL) (formula: $C_{55}H_{70}MgN_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
30	00	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	00	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
30	00	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	00	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	00	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	01	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	01	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	01	1	Total	C	Mg	N	O	0
			63	52	1	4	6	
30	01	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	01	1	Total	C	Mg	N	O	0
			62	51	1	4	6	
30	02	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	02	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	02	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	02	1	Total	C	Mg	N	O	0
			45	34	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
30	02	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	02	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	03	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
30	03	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	03	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
30	03	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	03	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	04	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	04	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	04	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	04	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
30	04	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	05	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	05	1	Total	C	Mg	N	O	0
			63	52	1	4	6	
30	05	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	05	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	05	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	05	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	06	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	06	1	Total	C	Mg	N	O	0
			40	31	1	4	4	
30	06	1	Total	C	Mg	N	O	0
			41	32	1	4	4	

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Mol	Chain	Residues	Atoms					AltConf
30	06	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	06	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	07	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	07	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	07	1	Total	C	Mg	N	O	0
			39	32	1	4	2	
30	07	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	07	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	08	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	08	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	08	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	08	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	08	1	Total	C	Mg	N	O	0
			39	32	1	4	2	
30	09	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	09	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
30	09	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
30	09	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
30	09	1	Total	C	Mg	N	O	0
			61	50	1	4	6	
30	1G	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	1G	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	1G	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1G	1	Total	C	Mg	N	O	0
			64	53	1	4	6	

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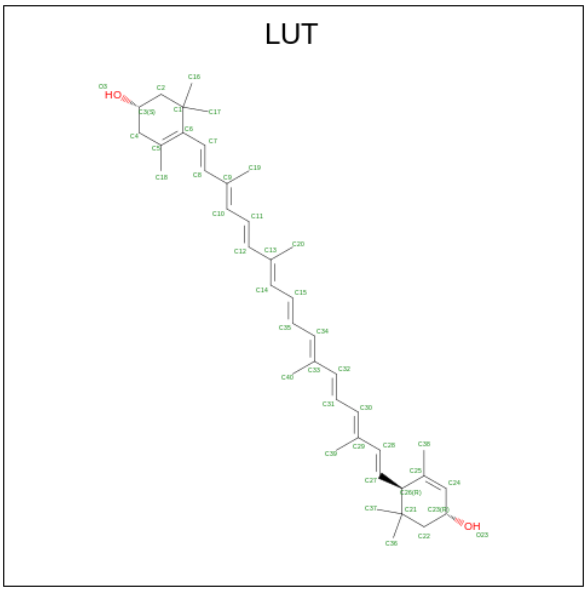
Mol	Chain	Residues	Atoms					AltConf
30	1G	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
30	1G	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1N	1	Total	C	Mg	N	O	0
			65	54	1	4	6	
30	1N	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1N	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1N	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	1N	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
30	1N	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	1R	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1R	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1R	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	1R	1	Total	C	Mg	N	O	0
			45	34	1	4	6	
30	1S	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1S	1	Total	C	Mg	N	O	0
			41	32	1	4	4	
30	1S	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1S	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1g	1	Total	C	Mg	N	O	0
			58	47	1	4	6	
30	1g	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1g	1	Total	C	Mg	N	O	0
			50	39	1	4	6	
30	1g	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
30	1g	1	Total	C	Mg	N	O	0
			43	34	1	4	4	

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Mol	Chain	Residues	Atoms					AltConf
30	1g	1	Total	C	Mg	N	O	0
			61	50	1	4	6	
30	1n	1	Total	C	Mg	N	O	0
			62	51	1	4	6	
30	1n	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1n	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
30	1n	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
30	1n	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1n	1	Total	C	Mg	N	O	0
			61	50	1	4	6	
30	1r	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1r	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1r	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1r	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
30	1s	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1s	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
30	1s	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
30	1s	1	Total	C	Mg	N	O	0
			42	33	1	4	4	

- Molecule 31 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (CCD ID: LUT) (formula: $C_{40}H_{56}O_2$) (labeled as "Ligand of Interest" by depositor).



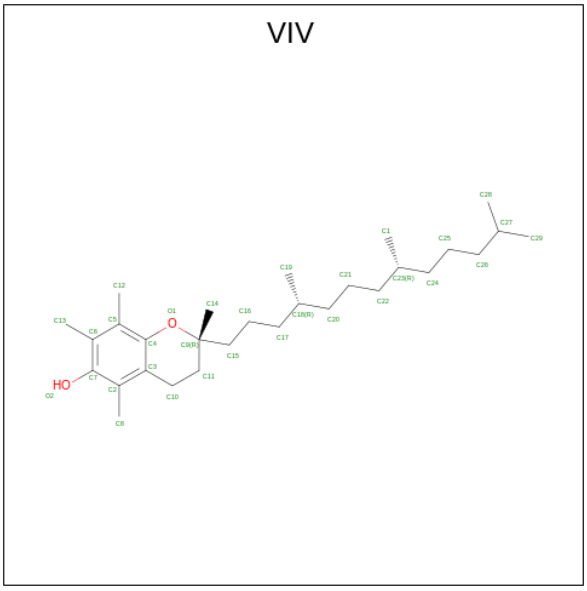
Mol	Chain	Residues	Atoms			AltConf
31	00	1	Total	C	O	0
			42	40	2	
31	00	1	Total	C	O	0
			42	40	2	
31	01	1	Total	C	O	0
			42	40	2	
31	01	1	Total	C	O	0
			42	40	2	
31	03	1	Total	C	O	0
			42	40	2	
31	05	1	Total	C	O	0
			42	40	2	
31	07	1	Total	C	O	0
			42	40	2	
31	09	1	Total	C	O	0
			42	40	2	
31	09	1	Total	C	O	0
			42	40	2	
31	1G	1	Total	C	O	0
			42	40	2	
31	1G	1	Total	C	O	0
			42	40	2	
31	1N	1	Total	C	O	0
			41	39	2	
31	1R	1	Total	C	O	0
			42	40	2	
31	1S	1	Total	C	O	0
			42	40	2	

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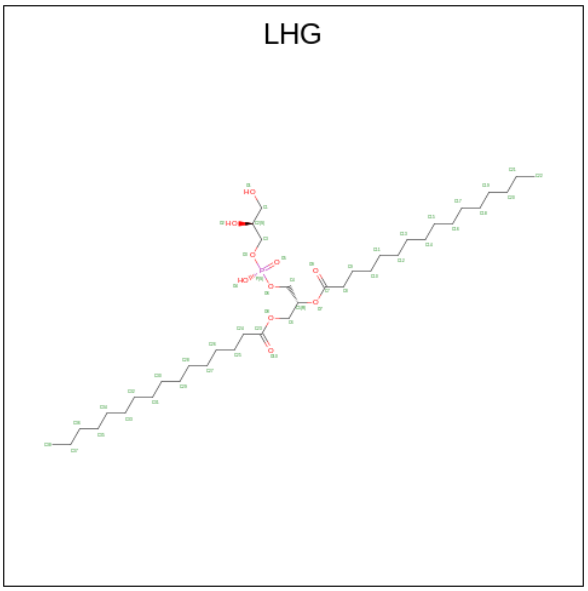
Mol	Chain	Residues	Atoms	AltConf
31	1S	1	Total C O 42 40 2	0
31	1g	1	Total C O 42 40 2	0
31	1g	1	Total C O 42 40 2	0
31	1n	1	Total C O 42 40 2	0
31	1r	1	Total C O 42 40 2	0
31	1s	1	Total C O 42 40 2	0
31	1s	1	Total C O 42 40 2	0

- Molecule 32 is (2R)-2,5,7,8-TETRAMETHYL-2-[(4R,8R)-4,8,12-TRIMETHYLTRIDECYL]CHROMAN-6-OL (CCD ID: VIV) (formula: $C_{29}H_{50}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
32	00	1	Total C O 21 19 2	0
32	09	1	Total C O 31 29 2	0

- Molecule 33 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
33	00	1	Total	C	O	P	0
			33	24	8	1	
33	00	1	Total	C	O	P	0
			49	38	10	1	
33	00	1	Total	C	O	P	0
			49	38	10	1	
33	00	1	Total	C	O	P	0
			44	33	10	1	
33	01	1	Total	C	O	P	0
			36	25	10	1	
33	03	1	Total	C	O	P	0
			45	34	10	1	
33	07	1	Total	C	O	P	0
			49	38	10	1	
33	09	1	Total	C	O	P	0
			37	26	10	1	
33	09	1	Total	C	O	P	0
			49	38	10	1	
33	1B	1	Total	C	O	P	0
			38	27	10	1	
33	1C	1	Total	C	O	P	0
			29	18	10	1	
33	1C	1	Total	C	O	P	0
			32	22	9	1	
33	1C	1	Total	C	O	P	0
			34	23	10	1	
33	1C	1	Total	C	O	P	0
			39	28	10	1	

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Mol	Chain	Residues	Atoms				AltConf
33	1C	1	Total	C	O	P	0
			40	31	8	1	
33	1C	1	Total	C	O	P	0
			32	23	8	1	
33	1C	1	Total	C	O	P	0
			37	26	10	1	
33	1D	1	Total	C	O	P	0
			31	20	10	1	
33	1D	1	Total	C	O	P	0
			43	32	10	1	
33	1D	1	Total	C	O	P	0
			32	21	10	1	
33	1D	1	Total	C	O	P	0
			41	32	8	1	
33	1E	1	Total	C	O	P	0
			30	19	10	1	
33	1F	1	Total	C	O	P	0
			42	33	8	1	
33	1G	1	Total	C	O	P	0
			41	30	10	1	
33	1I	1	Total	C	O	P	0
			32	23	8	1	
33	1I	1	Total	C	O	P	0
			39	28	10	1	
33	1J	1	Total	C	O	P	0
			45	36	8	1	
33	1K	1	Total	C	O	P	0
			43	34	8	1	
33	1L	1	Total	C	O	P	0
			49	38	10	1	
33	1N	1	Total	C	O	P	0
			40	29	10	1	
33	1N	1	Total	C	O	P	0
			43	32	10	1	
33	1N	1	Total	C	O	P	0
			48	37	10	1	
33	1P	1	Total	C	O	P	0
			45	36	8	1	
33	1R	1	Total	C	O	P	0
			38	27	10	1	
33	1R	1	Total	C	O	P	0
			37	26	10	1	

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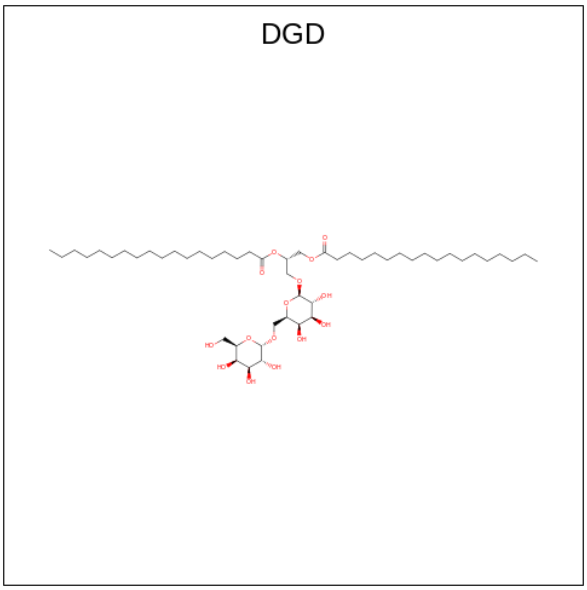
Mol	Chain	Residues	Atoms	AltConf
33	1S	1	Total C O P 34 23 10 1	0
33	1S	1	Total C O 29 24 5	0
33	1S	1	Total C O P 31 20 10 1	0
33	1V	1	Total C O P 49 38 10 1	0
33	1W	1	Total C O P 35 24 10 1	0
33	1W	1	Total C O P 44 33 10 1	0
33	1a	1	Total C O P 32 21 10 1	0
33	1a	1	Total C O P 41 30 10 1	0
33	1b	1	Total C O P 27 18 8 1	0
33	1b	1	Total C O P 36 25 10 1	0
33	1b	1	Total C O P 45 34 10 1	0
33	1b	1	Total C O P 32 21 10 1	0
33	1b	1	Total C O P 49 38 10 1	0
33	1c	1	Total C O P 42 31 10 1	0
33	1c	1	Total C O P 28 19 8 1	0
33	1d	1	Total C O P 39 28 10 1	0
33	1d	1	Total C O P 38 27 10 1	0
33	1e	1	Total C O P 42 31 10 1	0
33	1g	1	Total C O P 36 25 10 1	0
33	1j	1	Total C O P 41 30 10 1	0
33	1n	1	Total C O P 43 32 10 1	0

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Mol	Chain	Residues	Atoms	AltConf
33	1n	1	Total C O P 38 32 5 1	0
33	1r	1	Total C O P 29 20 8 1	0
33	1s	1	Total C O P 29 20 8 1	0
33	1s	1	Total C O 29 24 5	0
33	1s	1	Total C O 27 22 5	0
33	1t	1	Total C O P 39 31 7 1	0
33	1v	1	Total C O P 41 30 10 1	0
33	1w	1	Total C O P 35 26 8 1	0
33	1w	1	Total C O P 42 31 10 1	0
33	1w	1	Total C O P 37 27 9 1	0

- Molecule 34 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$) (labeled as "Ligand of Interest" by depositor).



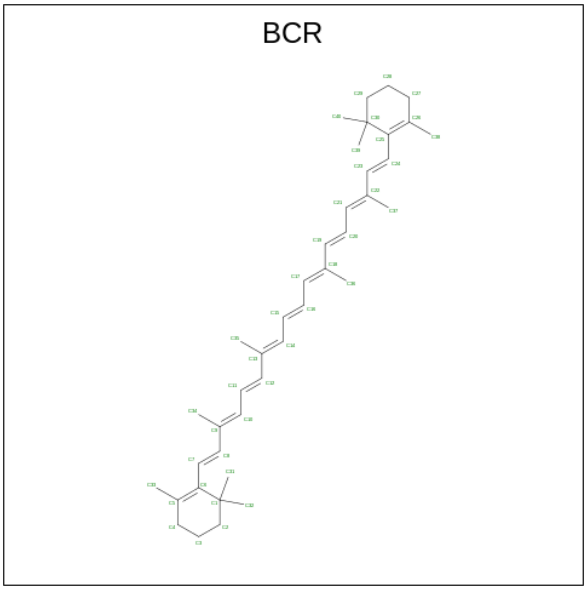
Mol	Chain	Residues	Atoms	AltConf
34	00	1	Total C O 61 46 15	0

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Mol	Chain	Residues	Atoms	AltConf
34	1A	1	Total C O 55 40 15	0
34	1B	1	Total C O 62 47 15	0
34	1B	1	Total C O 48 33 15	0
34	1B	1	Total C O 62 47 15	0
34	1C	1	Total C O 55 40 15	0
34	1C	1	Total C O 58 43 15	0
34	1C	1	Total C O 60 45 15	0
34	1S	1	Total C O 46 31 15	0
34	1b	1	Total C O 62 47 15	0
34	1c	1	Total C O 47 32 15	0
34	1c	1	Total C O 52 37 15	0
34	1c	1	Total C O 57 42 15	0

- Molecule 35 is BETA-CAROTENE (CCD ID: BCR) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
35	04	1	Total C 40 40	0
35	1A	1	Total C 40 40	0
35	1B	1	Total C 40 40	0
35	1B	1	Total C 40 40	0
35	1B	1	Total C 40 40	0
35	1B	1	Total C 40 40	0
35	1D	1	Total C 40 40	0
35	1H	1	Total C 40 40	0
35	1I	1	Total C 40 40	0
35	1J	1	Total C 40 40	0
35	1Z	1	Total C 40 40	0
35	1Z	1	Total C 40 40	0
35	1a	1	Total C 40 40	0
35	1b	1	Total C 40 40	0
35	1b	1	Total C 40 40	0
35	1b	1	Total C 40 40	0
35	1b	1	Total C 40 40	0
35	1c	1	Total C 40 40	0
35	1d	1	Total C 40 40	0
35	1h	1	Total C 40 40	0
35	1i	1	Total C 40 40	0
35	1j	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
35	1k	1	Total C 40 40	0

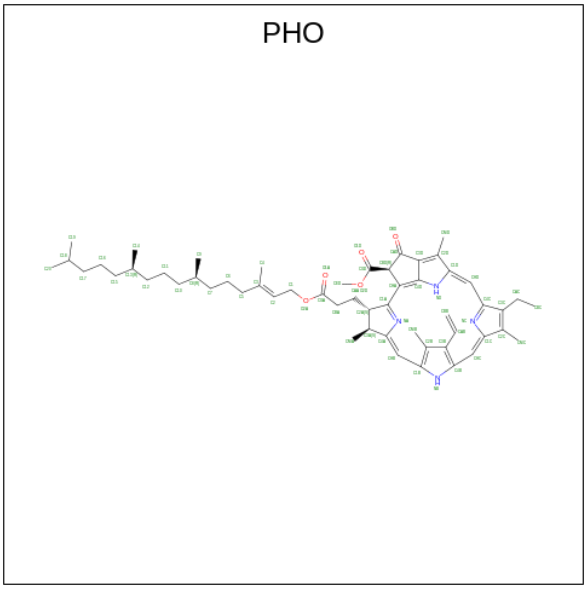
- Molecule 36 is FE (II) ION (CCD ID: FE2) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	AltConf
36	1A	1	Total Fe 1 1	0
36	1a	1	Total Fe 1 1	0

- Molecule 37 is CHLORIDE ION (CCD ID: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

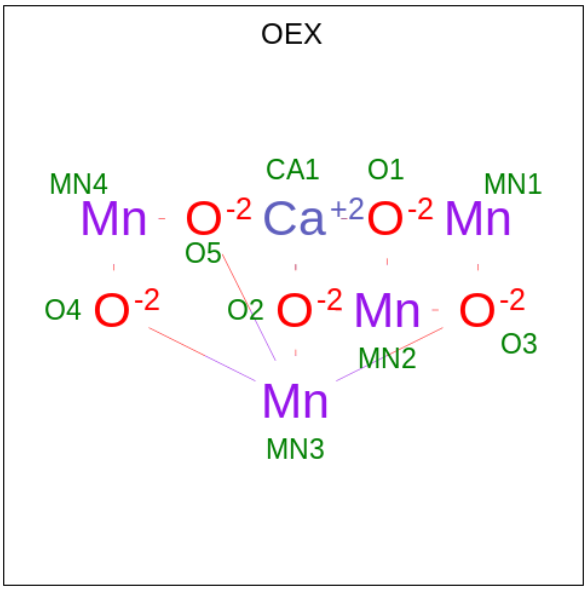
Mol	Chain	Residues	Atoms	AltConf
37	1A	2	Total Cl 2 2	0
37	1a	1	Total Cl 1 1	0
37	1c	1	Total Cl 1 1	0

- Molecule 38 is PHEOPHYTIN A (CCD ID: PHO) (formula: $C_{55}H_{74}N_4O_5$) (labeled as "Ligand of Interest" by depositor).



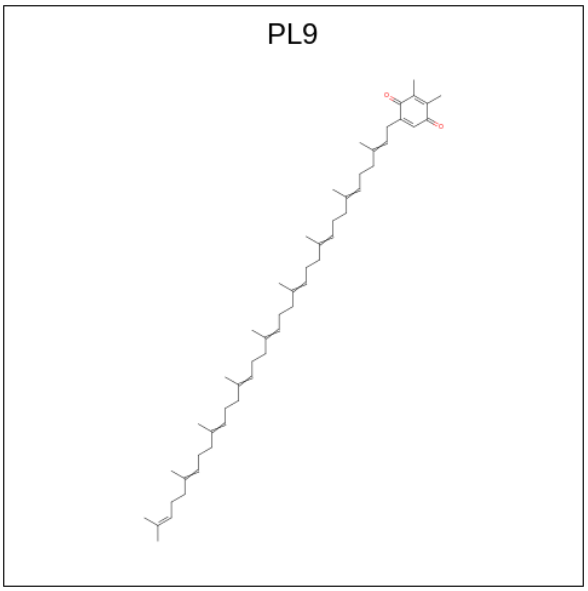
Mol	Chain	Residues	Atoms	AltConf
38	1A	1	Total C N O 64 55 4 5	0
38	1A	1	Total C N O 64 55 4 5	0
38	1a	1	Total C N O 40 33 4 3	0
38	1d	1	Total C N O 64 55 4 5	0

- Molecule 39 is CA-MN4-O5 CLUSTER (CCD ID: OEX) (formula: $CaMn_4O_5$) (labeled as "Ligand of Interest" by depositor).



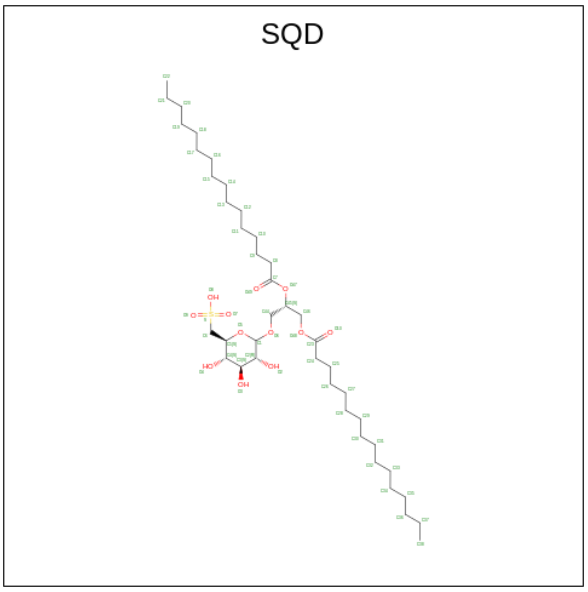
Mol	Chain	Residues	Atoms	AltConf
39	1A	1	Total Ca Mn O 10 1 4 5	0
39	1a	1	Total Ca Mn O 10 1 4 5	0

- Molecule 40 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (CCD ID: PL9) (formula: $C_{53}H_{80}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
40	1A	1	Total C O 55 53 2	0
40	1D	1	Total C O 55 53 2	0
40	1E	1	Total C O 55 53 2	0
40	1R	1	Total C O 55 53 2	0
40	1a	1	Total C O 55 53 2	0
40	1d	1	Total C O 55 53 2	0
40	1e	1	Total C O 21 19 2	0
40	1r	1	Total C O 55 53 2	0

- Molecule 41 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).



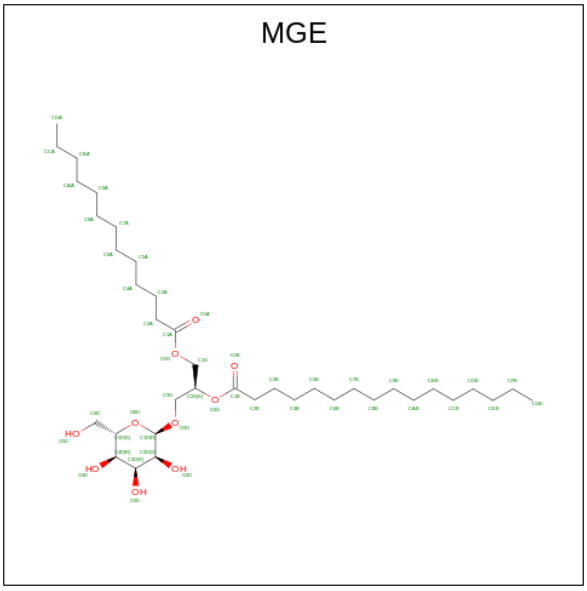
Mol	Chain	Residues	Atoms				AltConf
41	1A	1	Total 48	C 35	O 12	S 1	0
41	1A	1	Total 42	C 29	O 12	S 1	0
41	1A	1	Total 45	C 32	O 12	S 1	0
41	1B	1	Total 45	C 32	O 12	S 1	0
41	1B	1	Total 50	C 37	O 12	S 1	0
41	1B	1	Total 54	C 41	O 12	S 1	0
41	1B	1	Total 40	C 27	O 12	S 1	0
41	1C	1	Total 51	C 38	O 12	S 1	0
41	1D	1	Total 46	C 33	O 12	S 1	0
41	1D	1	Total 43	C 30	O 12	S 1	0
41	1L	1	Total 53	C 40	O 12	S 1	0
41	1S	1	Total 46	C 33	O 12	S 1	0
41	1a	1	Total 50	C 37	O 12	S 1	0
41	1a	1	Total 46	C 33	O 12	S 1	0

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Mol	Chain	Residues	Atoms				AltConf
41	1b	1	Total	C	O	S	0
			54	41	12	1	
41	1b	1	Total	C	O	S	0
			48	35	12	1	
41	1c	1	Total	C	O	S	0
			54	41	12	1	
41	1d	1	Total	C	O	S	0
			48	35	12	1	
41	1d	1	Total	C	O	S	0
			39	26	12	1	
41	1l	1	Total	C	O	S	0
			42	29	12	1	
41	1m	1	Total	C	O	S	0
			42	29	12	1	
41	1s	1	Total	C	O	S	0
			44	31	12	1	
41	1w	1	Total	C	O	S	0
			40	27	12	1	

- Molecule 42 is (1S)-2-(ALPHA-L-ALLOPYRANOSYLOXY)-1-[(TRIDECANOYLOXY)METHYL]ETHYL PALMITATE (CCD ID: MGE) (formula: $C_{38}H_{72}O_{10}$) (labeled as "Ligand of Interest" by depositor).



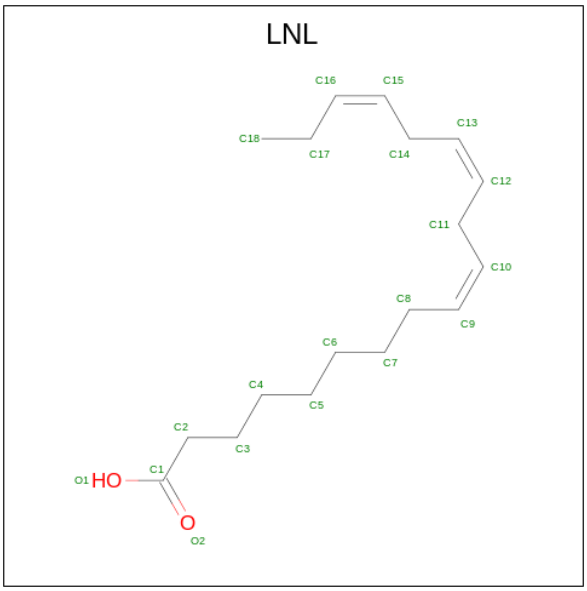
Mol	Chain	Residues	Atoms			AltConf
42	1B	1	Total	C	O	0
			44	34	10	

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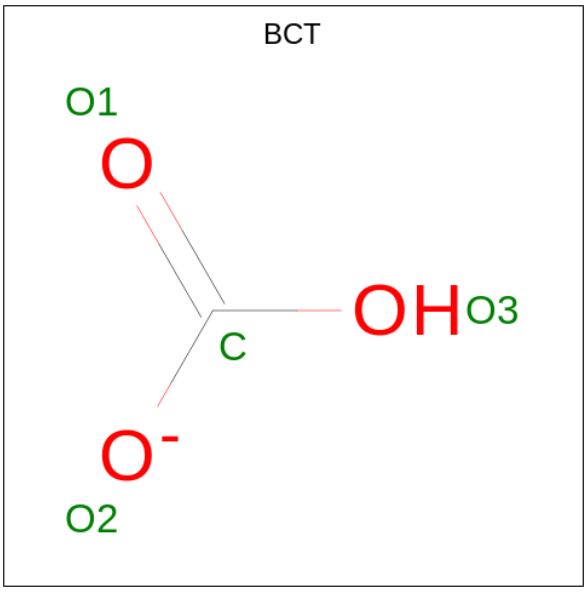
Mol	Chain	Residues	Atoms	AltConf
42	1B	1	Total C O 43 33 10	0
42	1C	1	Total C O 45 35 10	0
42	1k	1	Total C O 36 26 10	0
42	1s	1	Total C O 41 31 10	0

- Molecule 43 is ALPHA-LINOLENIC ACID (CCD ID: LNL) (formula: $C_{18}H_{30}O_2$) (labeled as "Ligand of Interest" by depositor).



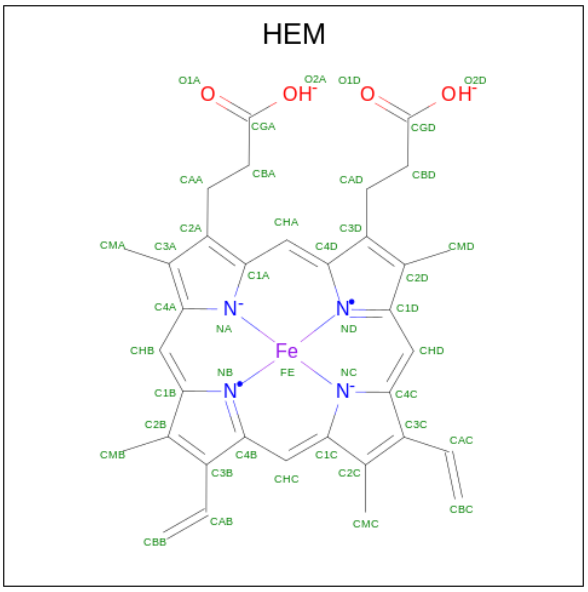
Mol	Chain	Residues	Atoms	AltConf
43	1C	1	Total C O 18 16 2	0
43	1C	1	Total C O 17 15 2	0
43	1c	1	Total C O 17 15 2	0

- Molecule 44 is BICARBONATE ION (CCD ID: BCT) (formula: CHO_3) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
44	1D	1	Total	C	O	0
			4	1	3	
44	1d	1	Total	C	O	0
			4	1	3	

- Molecule 45 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula: $C_{34}H_{32}FeN_4O_4$) (labeled as "Ligand of Interest" by depositor).



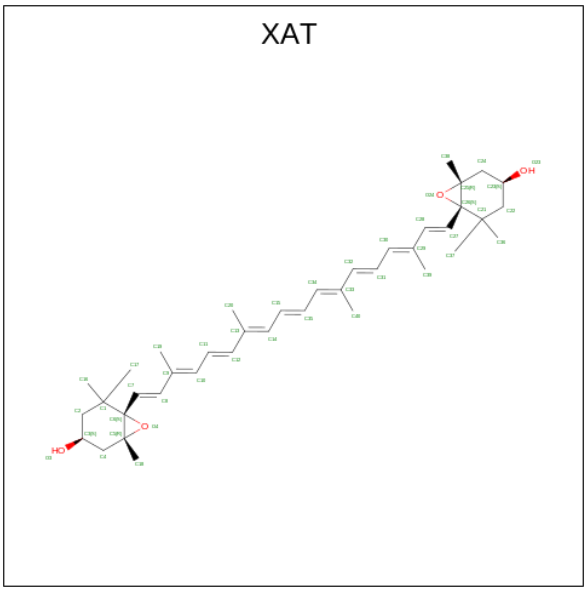
Mol	Chain	Residues	Atoms					AltConf
45	1E	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

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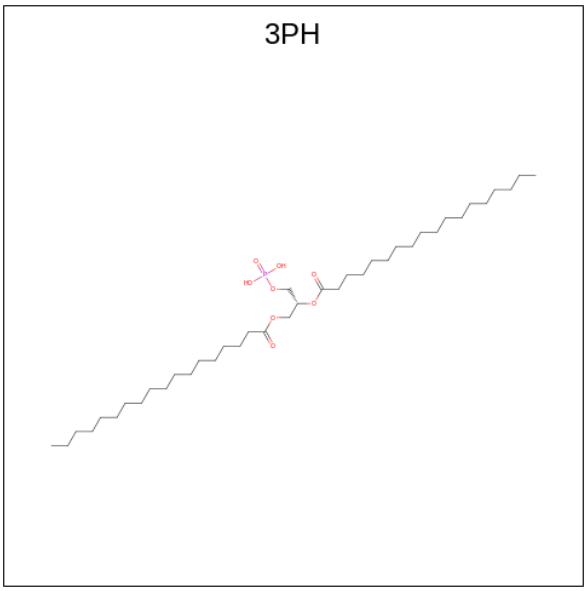
Mol	Chain	Residues	Atoms					AltConf
45	1f	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

- Molecule 46 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
46	1G	1	Total	C	O	0
			44	40	4	
46	1G	1	Total	C	O	0
			44	40	4	
46	1R	1	Total	C	O	0
			44	40	4	
46	1g	1	Total	C	O	0
			44	40	4	
46	1g	1	Total	C	O	0
			44	40	4	
46	1r	1	Total	C	O	0
			44	40	4	

- Molecule 47 is 1,2-DIACYL-GLYCEROL-3-SN-PHOSPHATE (CCD ID: 3PH) (formula: $C_{39}H_{77}O_8P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
47	1X	1	Total	C	O	P	0
			39	30	8	1	

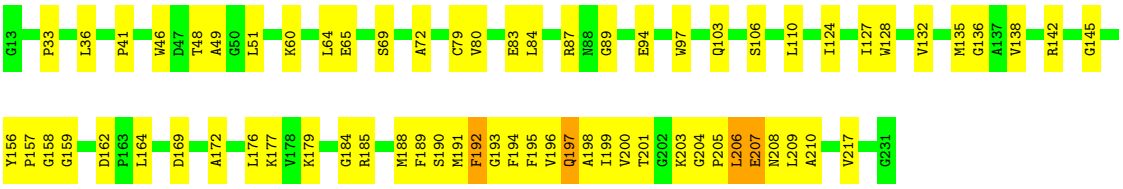
3 Residue-property plots (i)

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: Chlorophyll a-b binding protein 2, chloroplastic

Chain 00:

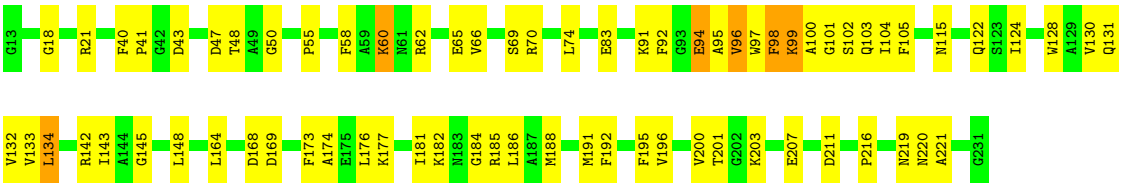




• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

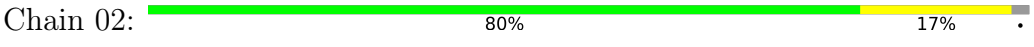
Chain 01:

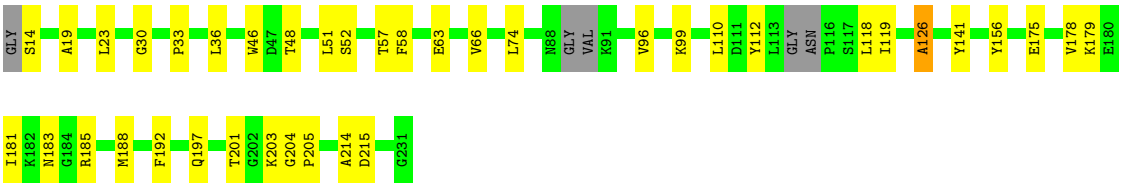




• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

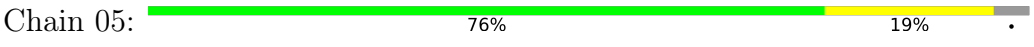
Chain 02:

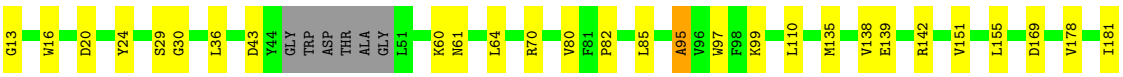




• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 05:



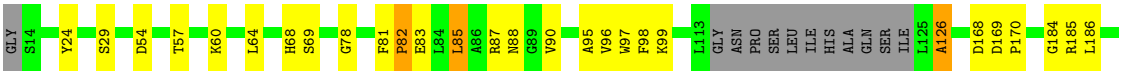




• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 06:



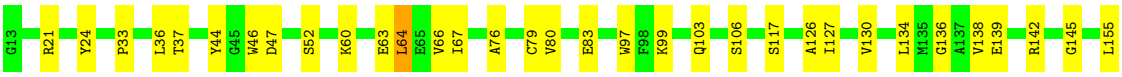




• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 09:

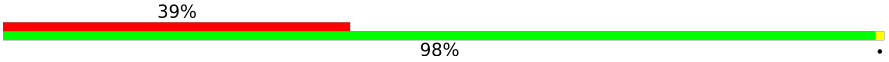


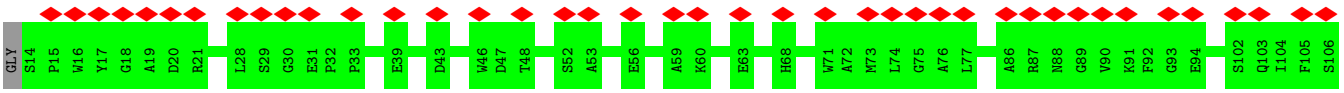


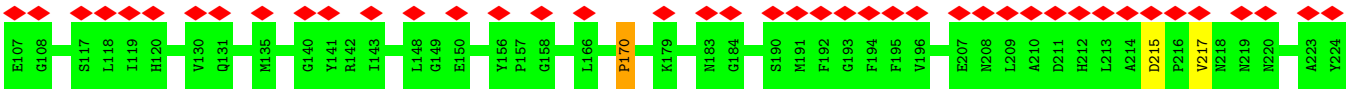


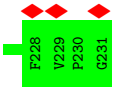
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 11:



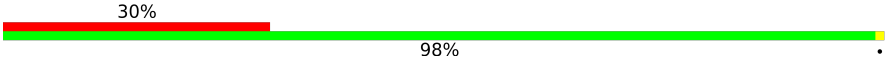


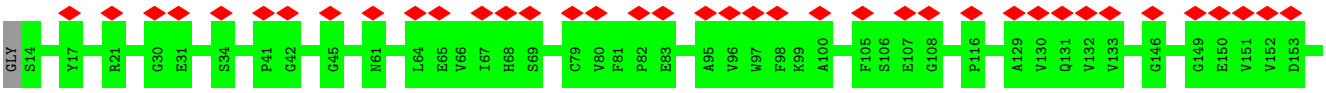


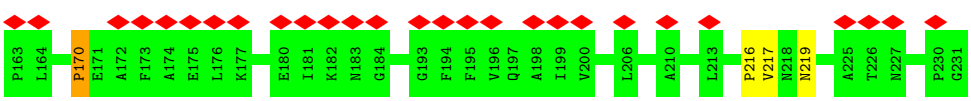


• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 14:

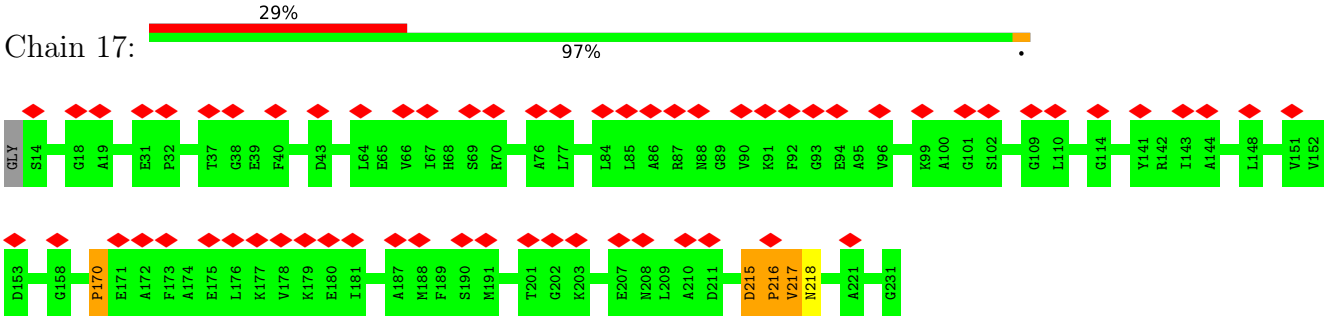






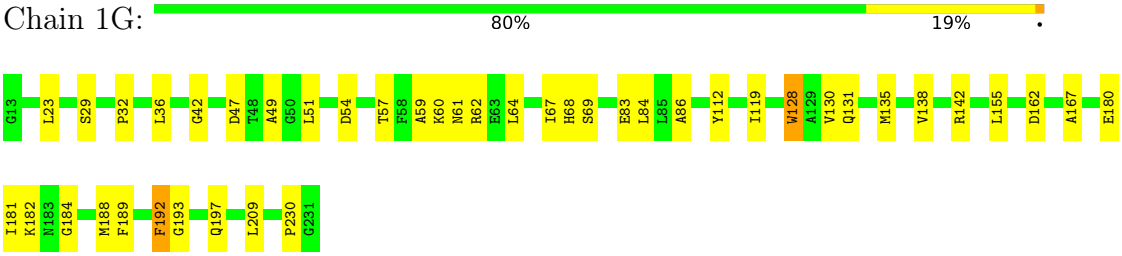
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 17:



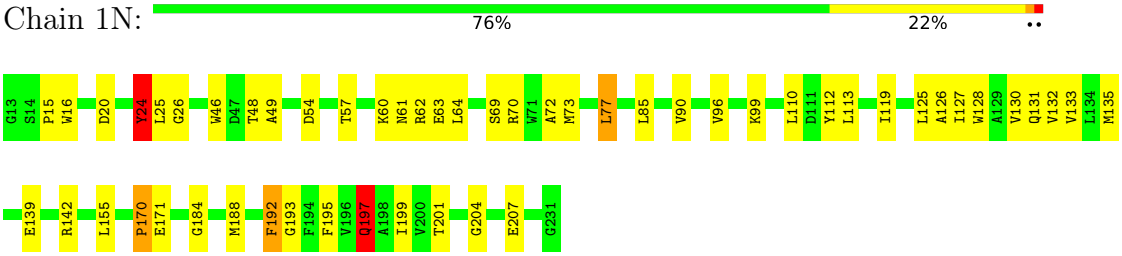
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 1G:



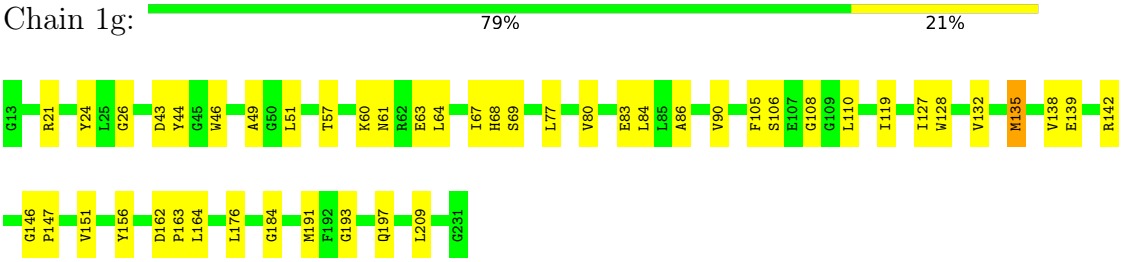
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 1N:



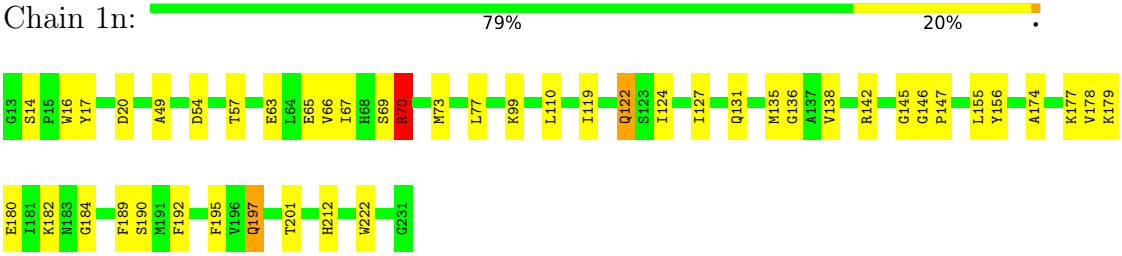
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 1g:



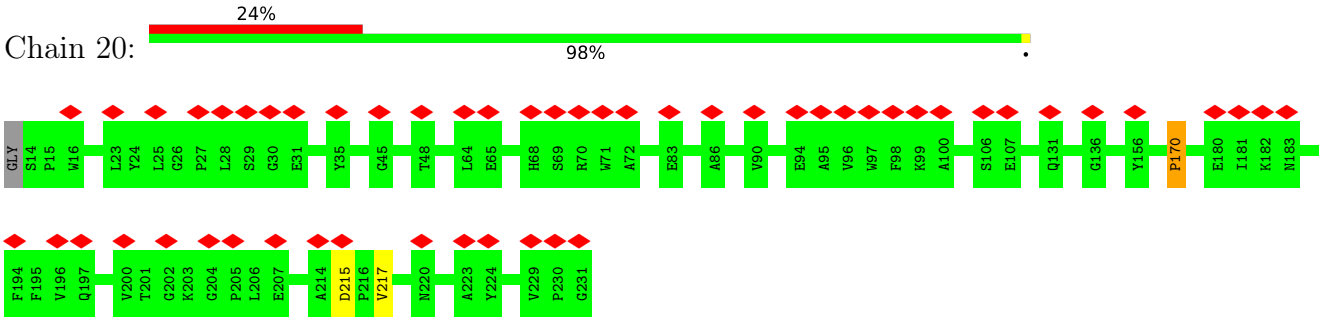
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 1n:



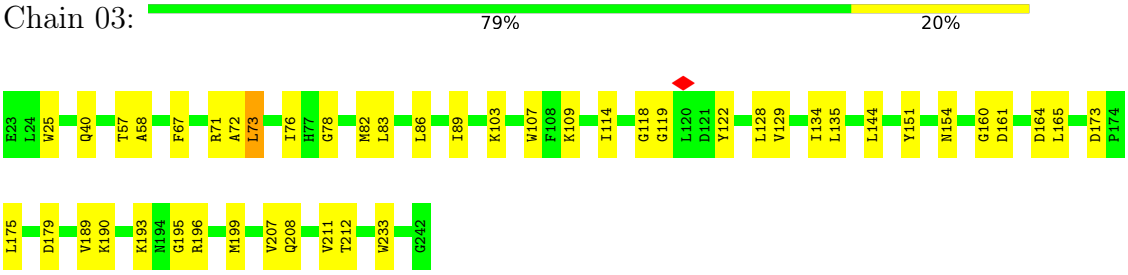
• Molecule 1: Chlorophyll a-b binding protein 2, chloroplastic

Chain 20:



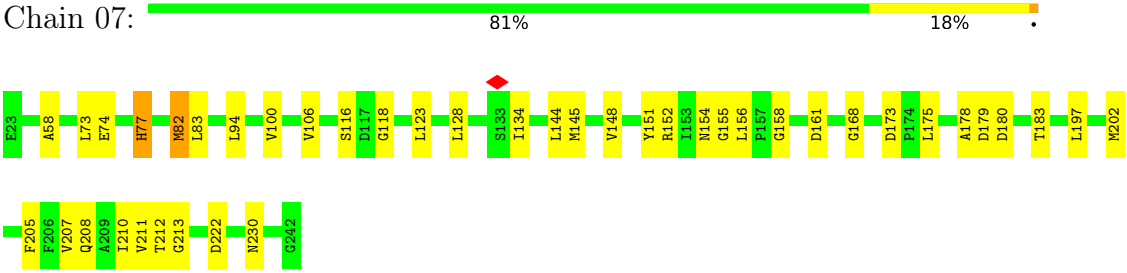
• Molecule 2: Chlorophyll a/b-binding protein

Chain 03:



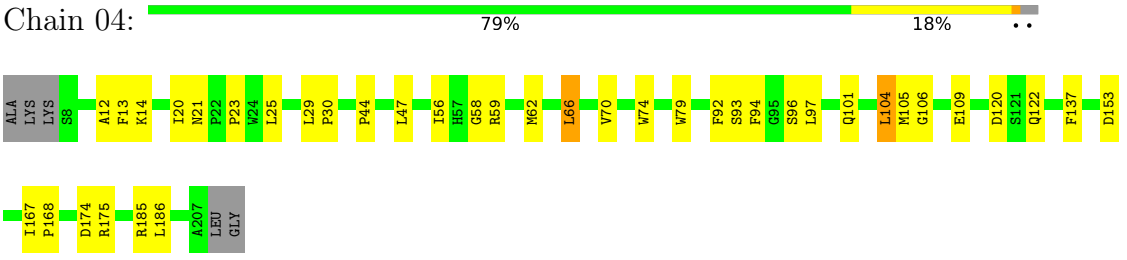
• Molecule 2: Chlorophyll a/b-binding protein

Chain 07:



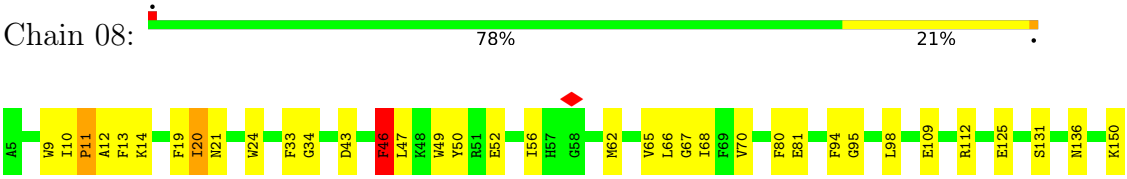
• Molecule 3: Chlorophyll a-b binding protein, chloroplastic

Chain 04:



• Molecule 3: Chlorophyll a-b binding protein, chloroplastic

Chain 08:

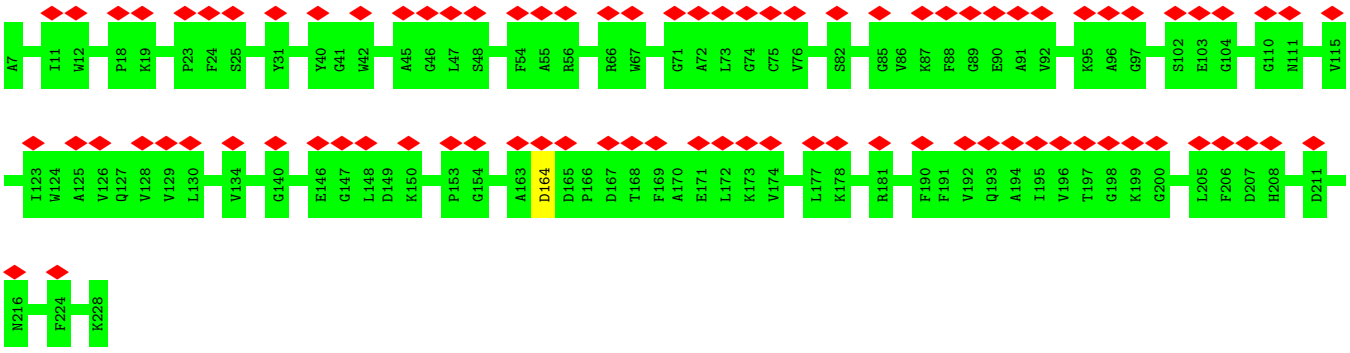




• Molecule 4: Chlorophyll a-b binding protein, chloroplastic

Chain 12:

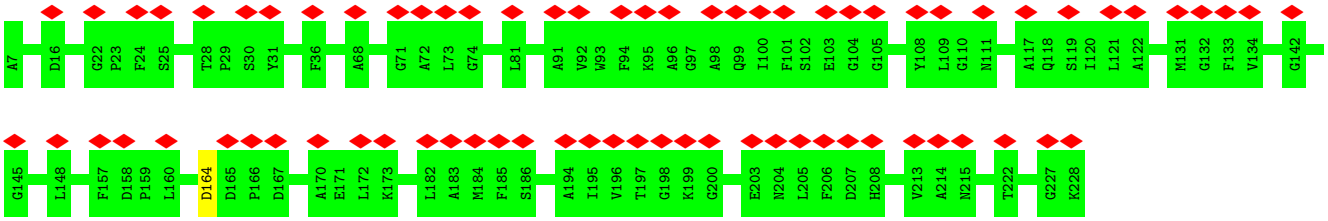




• Molecule 4: Chlorophyll a-b binding protein, chloroplastic

Chain 15:

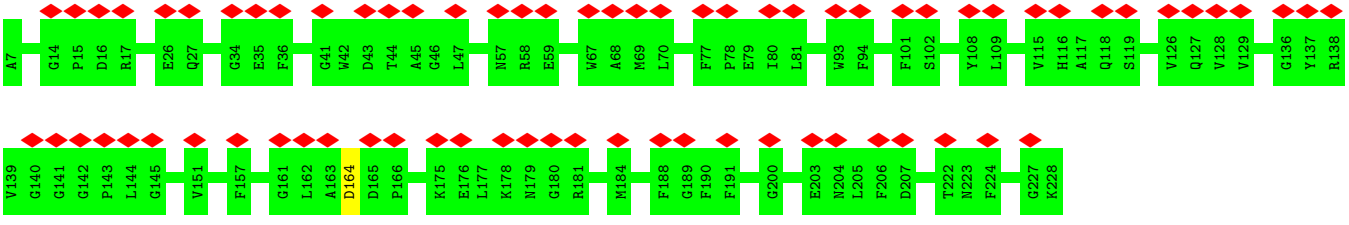




• Molecule 4: Chlorophyll a-b binding protein, chloroplastic

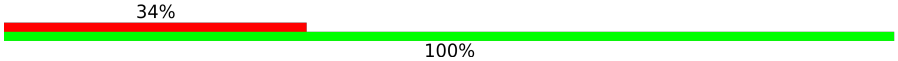
Chain 18:

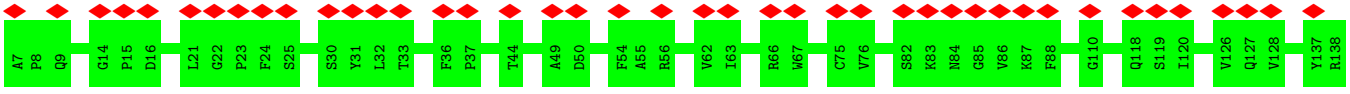


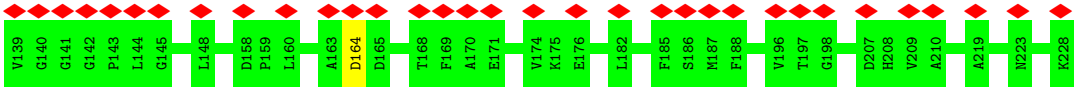


• Molecule 4: Chlorophyll a-b binding protein, chloroplastic

Chain 21:

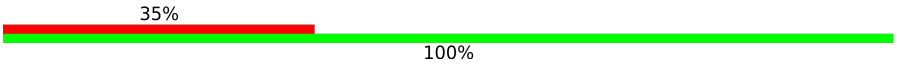


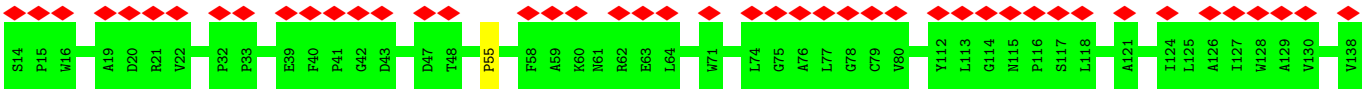


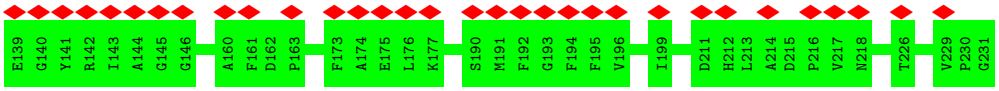


• Molecule 5: Chlorophyll a-b binding protein 1, chloroplastic

Chain 13:

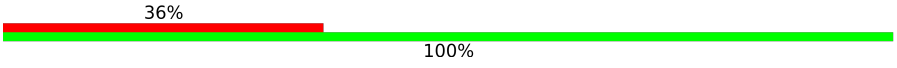


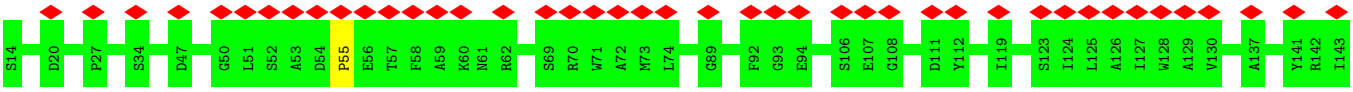


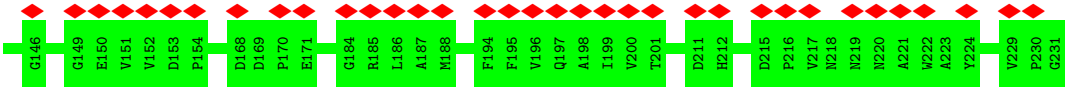


• Molecule 5: Chlorophyll a-b binding protein 1, chloroplastic

Chain 16:

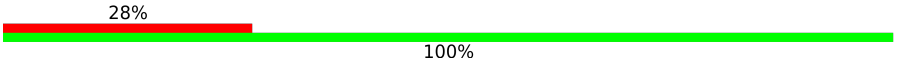


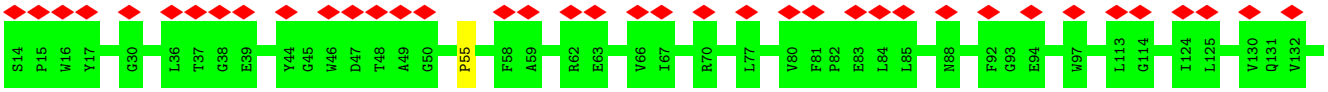


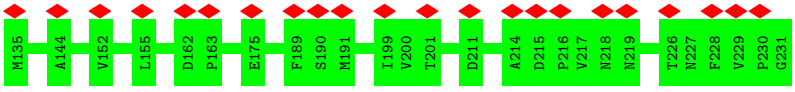


• Molecule 5: Chlorophyll a-b binding protein 1, chloroplastic

Chain 19:

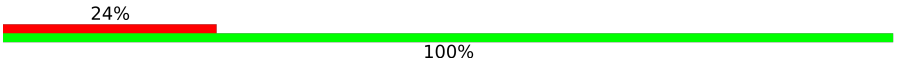


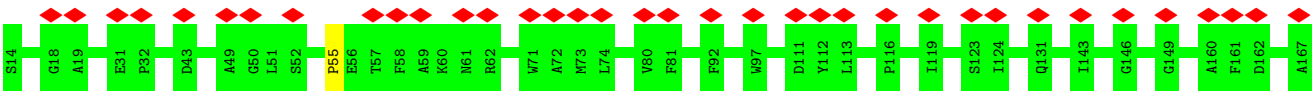


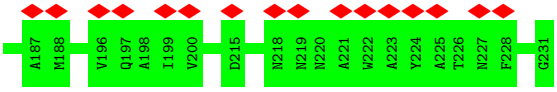


• Molecule 5: Chlorophyll a-b binding protein 1, chloroplastic

Chain 22:

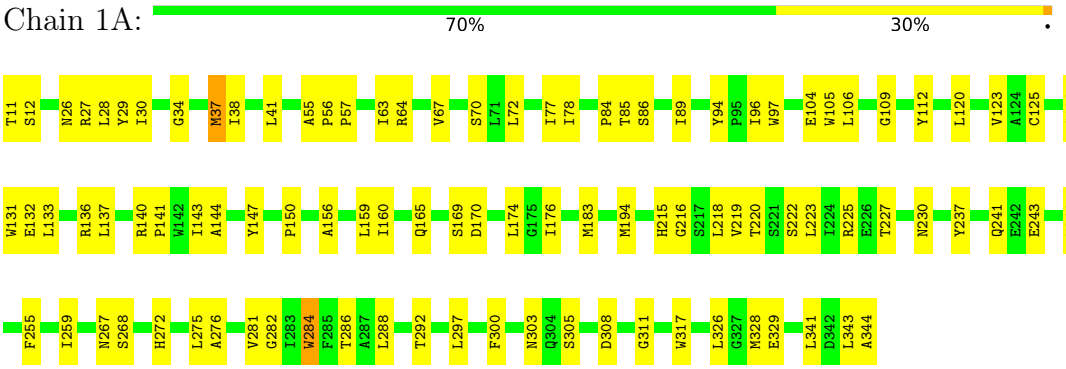






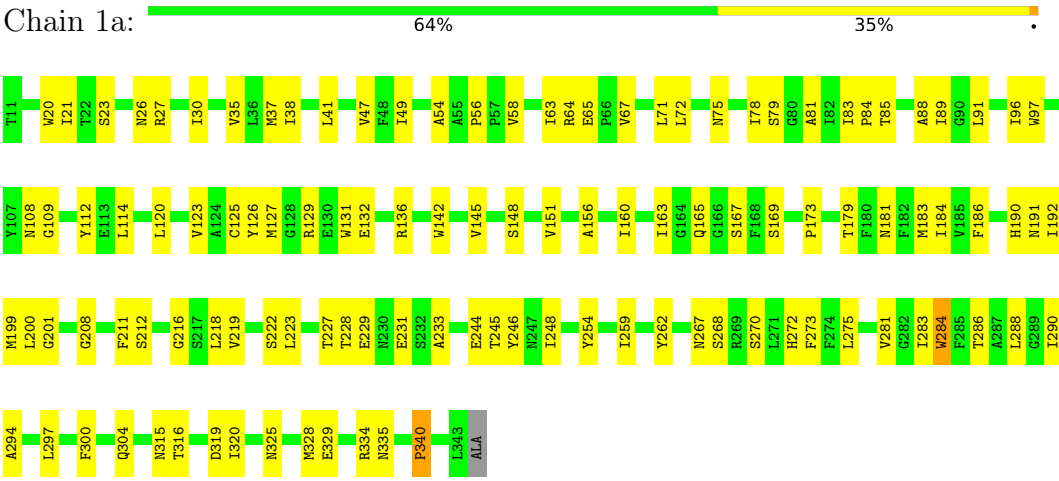
• Molecule 6: Photosystem II protein D1

Chain 1A:



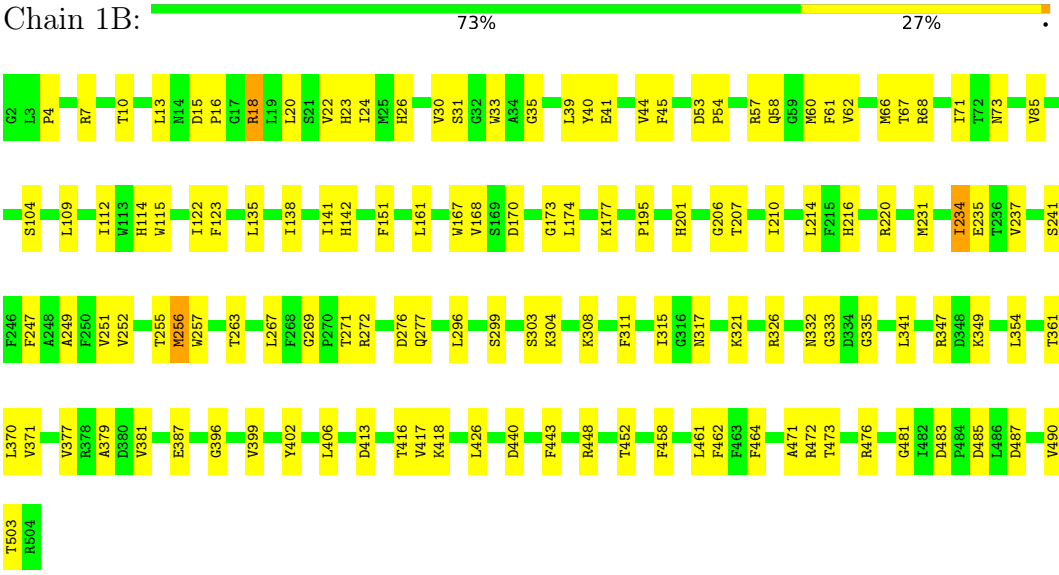
• Molecule 6: Photosystem II protein D1

Chain 1a:



• Molecule 7: Photosystem II CP47 reaction center protein

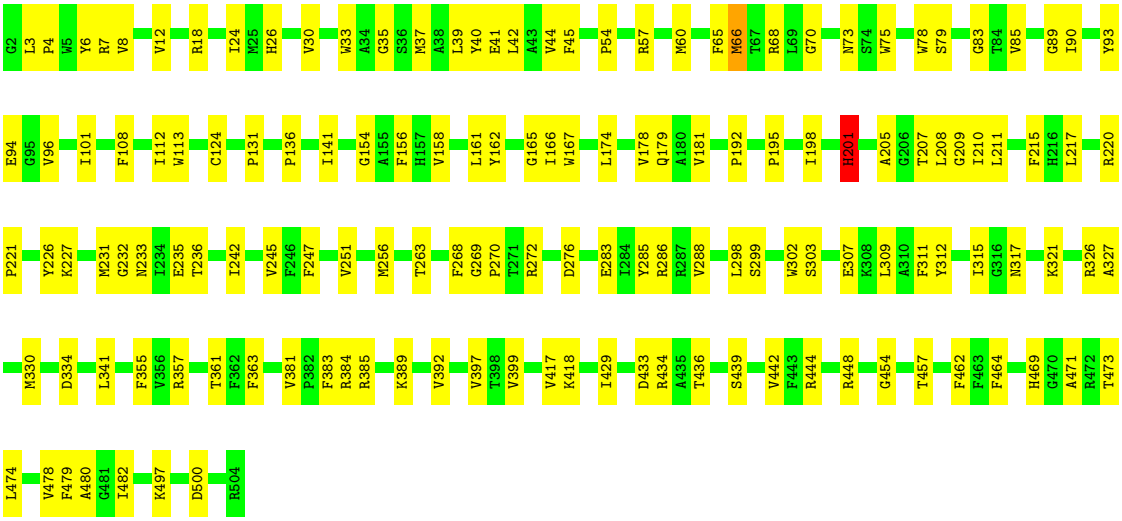
Chain 1B:



• Molecule 7: Photosystem II CP47 reaction center protein

Chain 1b:

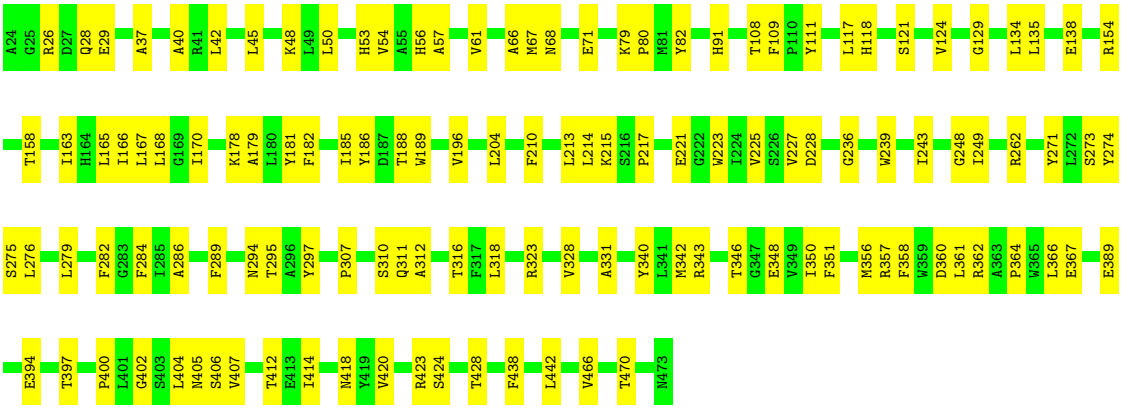




• Molecule 8: Photosystem II CP43 reaction center protein

Chain 1C:





• Molecule 8: Photosystem II CP43 reaction center protein

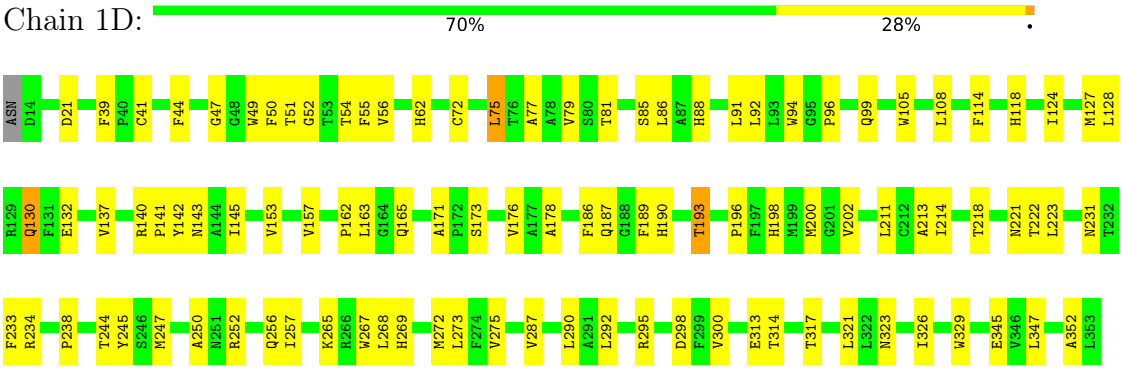
Chain 1c:





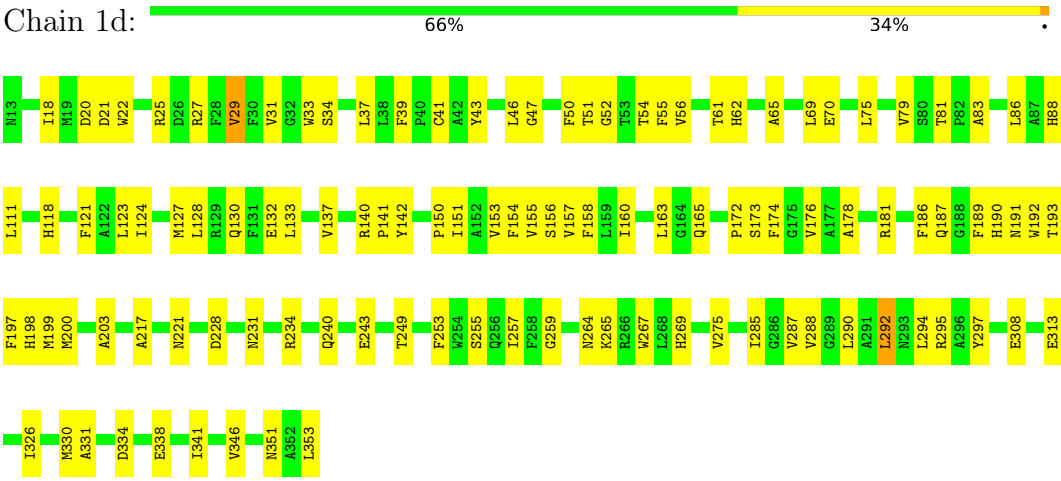
• Molecule 9: Photosystem II D2 protein

Chain 1D:



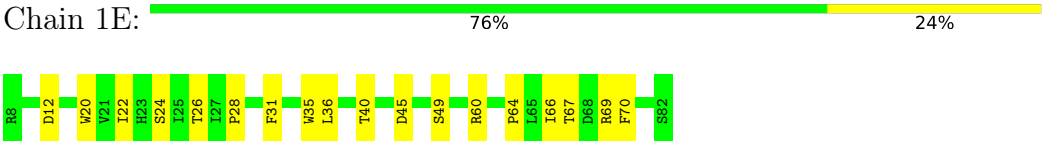
• Molecule 9: Photosystem II D2 protein

Chain 1d:



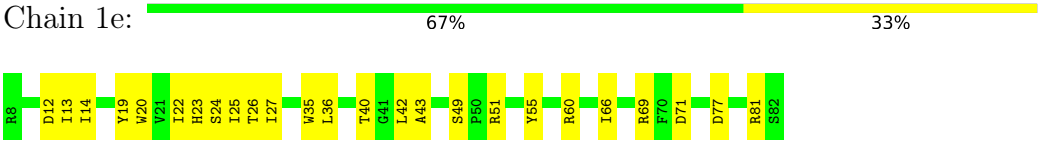
• Molecule 10: Cytochrome b559 subunit alpha

Chain 1E:



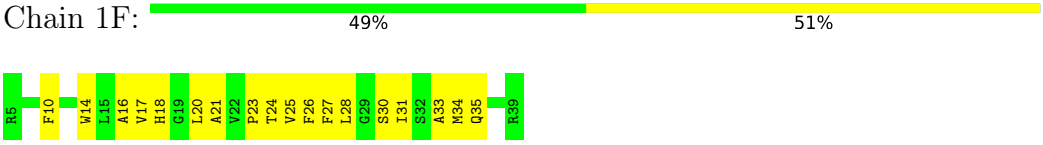
• Molecule 10: Cytochrome b559 subunit alpha

Chain 1e:



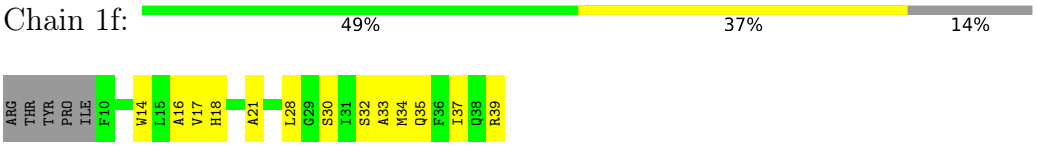
• Molecule 11: Cytochrome b559 subunit beta

Chain 1F:



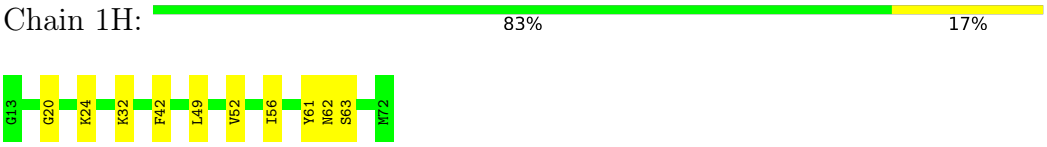
• Molecule 11: Cytochrome b559 subunit beta

Chain 1f:



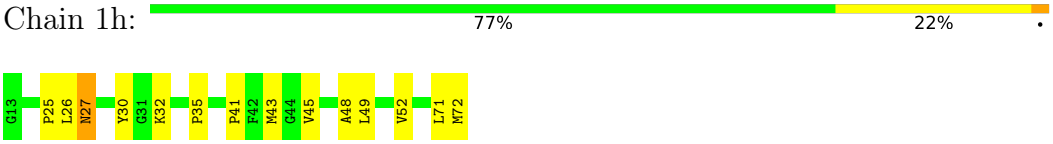
• Molecule 12: Photosystem II reaction center protein H

Chain 1H:



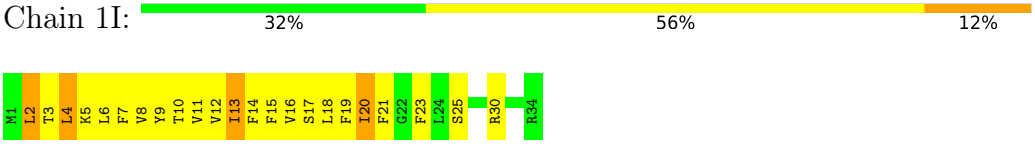
• Molecule 12: Photosystem II reaction center protein H

Chain 1h:



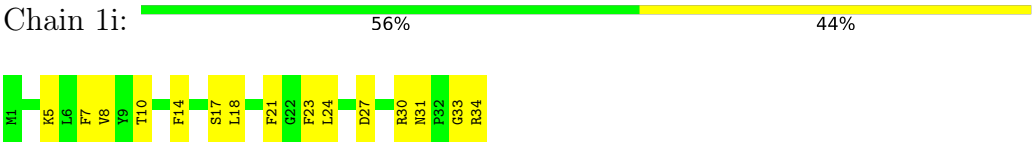
• Molecule 13: Photosystem II reaction center protein I

Chain 1I:



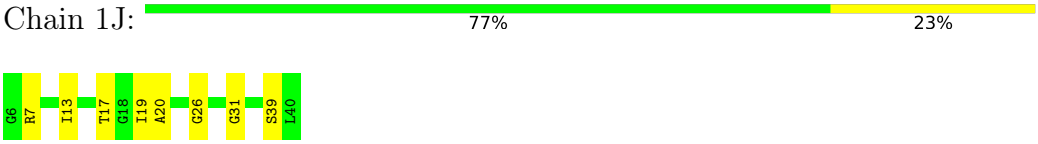
• Molecule 13: Photosystem II reaction center protein I

Chain 1i:



• Molecule 14: Photosystem II reaction center protein J

Chain 1J:



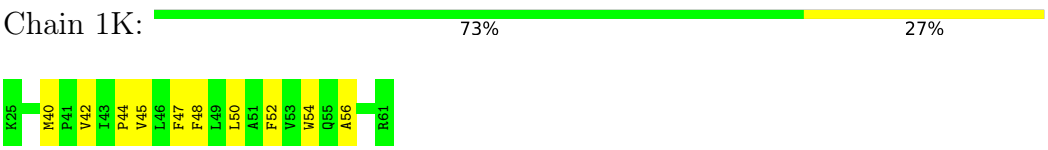
• Molecule 14: Photosystem II reaction center protein J

Chain 1j:



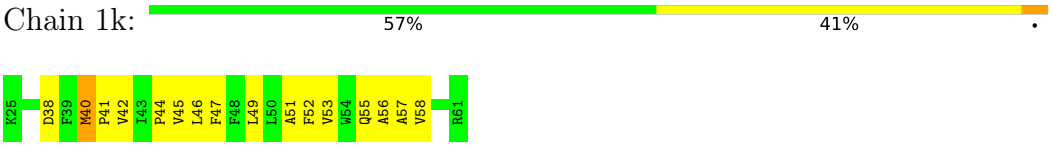
• Molecule 15: Photosystem II reaction center protein K

Chain 1K:



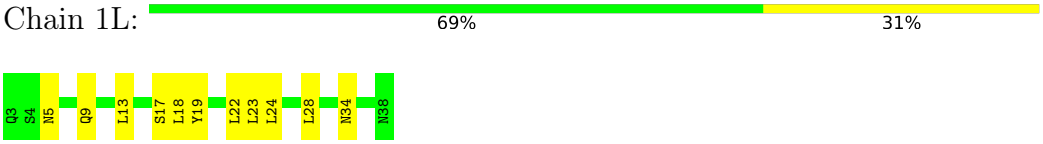
• Molecule 15: Photosystem II reaction center protein K

Chain 1k:



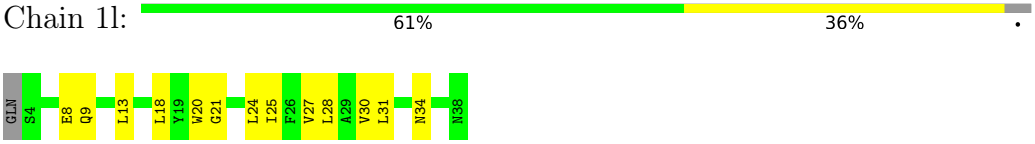
• Molecule 16: Photosystem II reaction center protein L

Chain 1L:



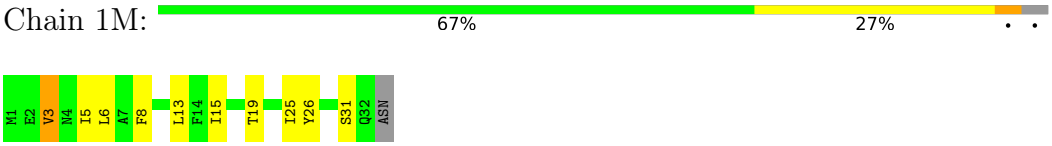
• Molecule 16: Photosystem II reaction center protein L

Chain 1l:



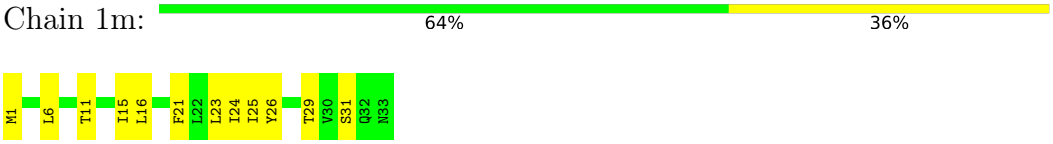
• Molecule 17: Photosystem II reaction center protein M

Chain 1M:



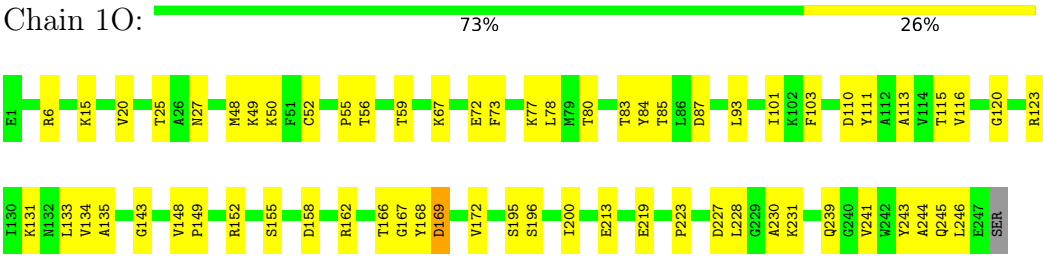
• Molecule 17: Photosystem II reaction center protein M

Chain 1m:



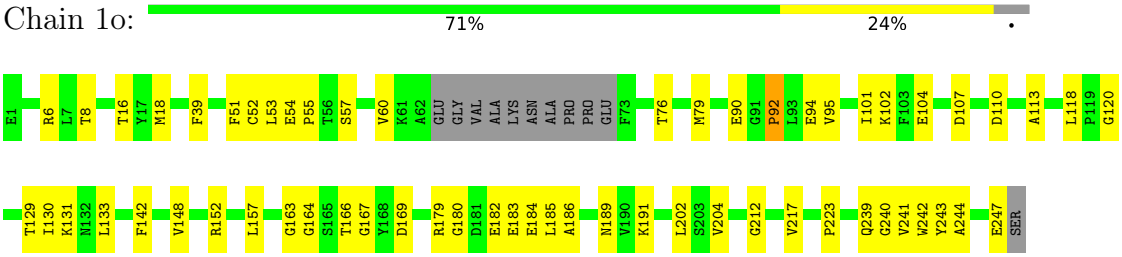
• Molecule 18: 33 kDa subunit of oxygen evolving system of photosystem II

Chain 1O:



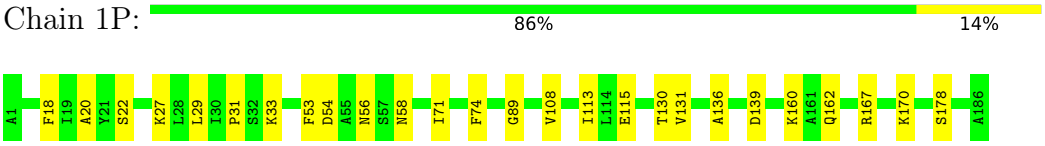
• Molecule 18: 33 kDa subunit of oxygen evolving system of photosystem II

Chain 1o:



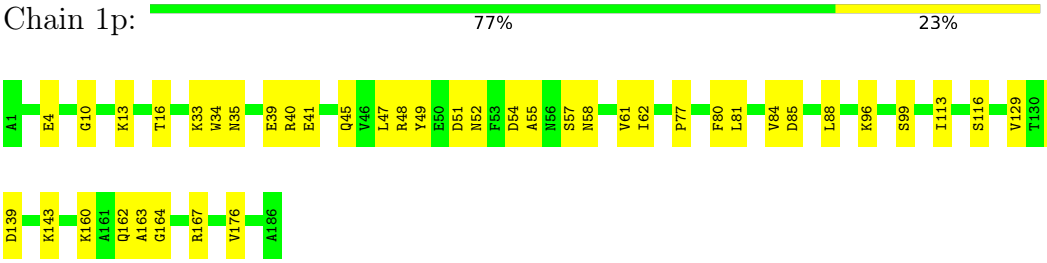
• Molecule 19: 23 kDa subunit of oxygen evolving system of photosystem II

Chain 1P:



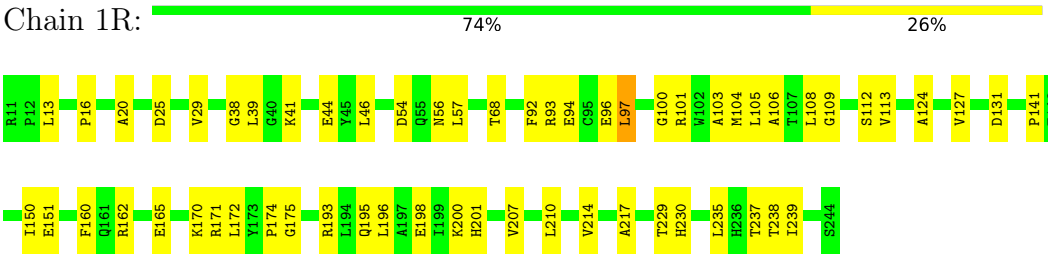
• Molecule 19: 23 kDa subunit of oxygen evolving system of photosystem II

Chain 1p:



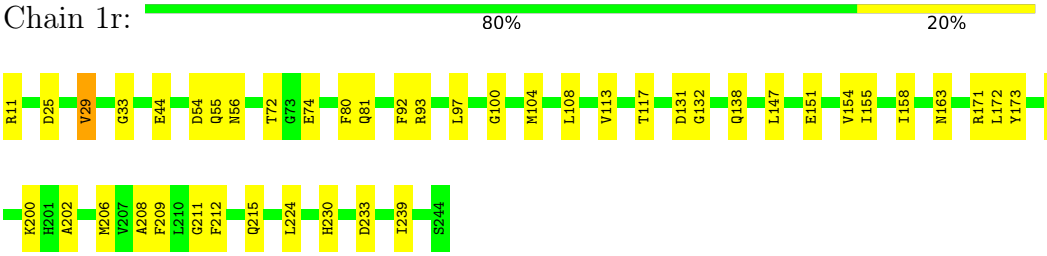
• Molecule 20: Chlorophyll a-b binding protein, chloroplastic

Chain 1R:



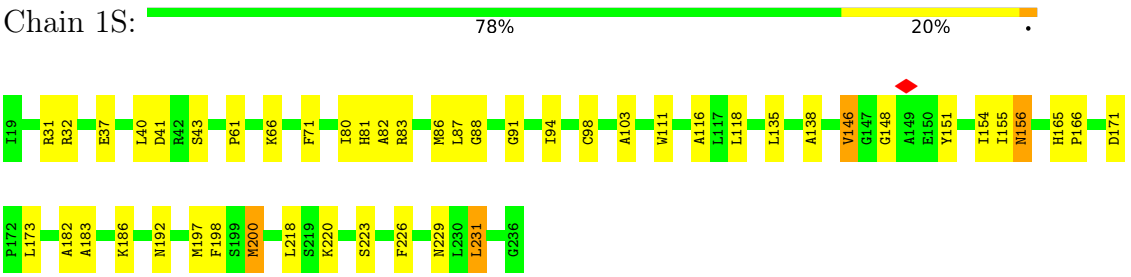
• Molecule 20: Chlorophyll a-b binding protein, chloroplastic

Chain 1r:



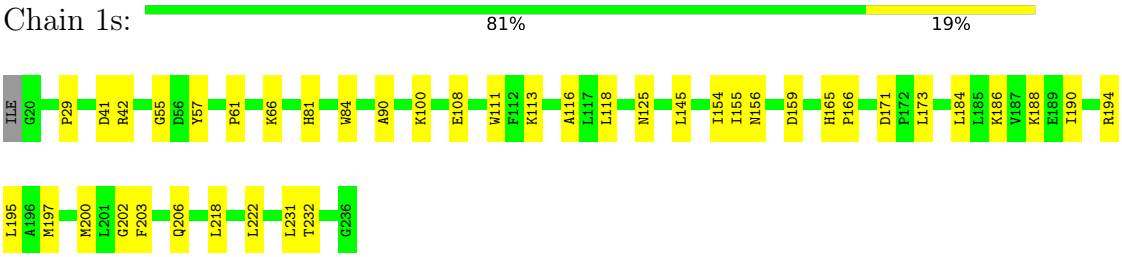
• Molecule 21: Chlorophyll a-b binding protein, chloroplastic

Chain 1S:



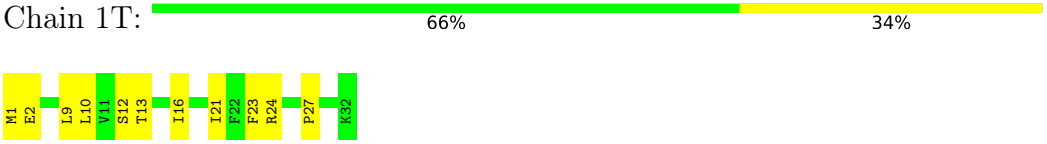
• Molecule 21: Chlorophyll a-b binding protein, chloroplastic

Chain 1s:



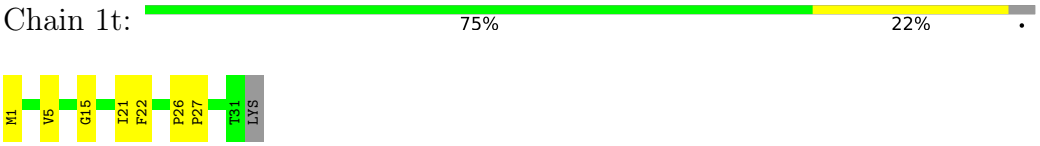
• Molecule 22: Photosystem II reaction center protein T

Chain 1T:



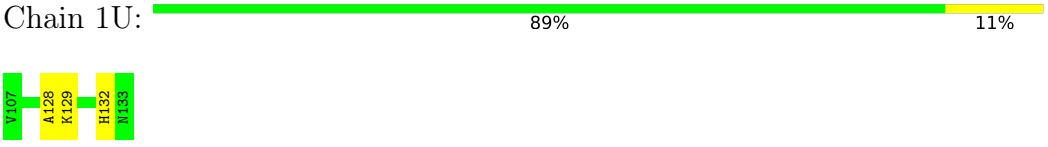
• Molecule 22: Photosystem II reaction center protein T

Chain 1t:



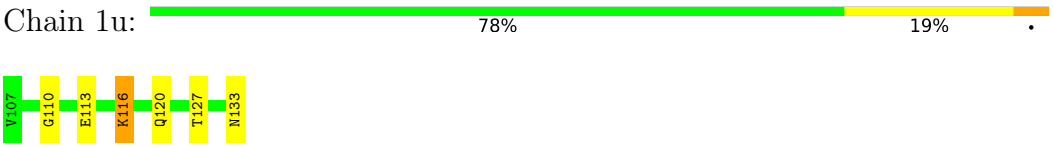
• Molecule 23: Os02g0581100 protein

Chain 1U:



• Molecule 23: Os02g0581100 protein

Chain 1u:



• Molecule 24: Photosystem II 10 kDa polypeptide, chloroplastic

Chain 1V:

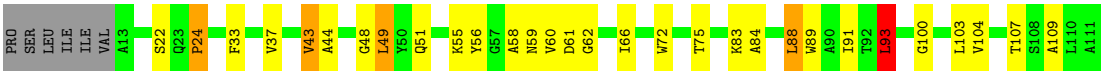




• Molecule 24: Photosystem II 10 kDa polypeptide, chloroplastic

Chain 1v:

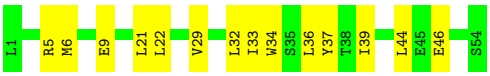




• Molecule 25: Photosystem II reaction center W protein, chloroplastic

Chain 1W:

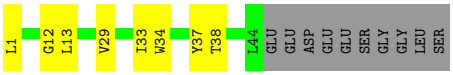




• Molecule 25: Photosystem II reaction center W protein, chloroplastic

Chain 1w:





• Molecule 26: Os07g0673550 protein

Chain 1X:

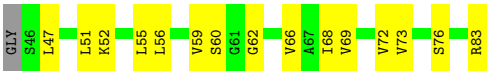




• Molecule 26: Os07g0673550 protein

Chain 1x:

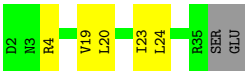




• Molecule 27: Os08g0119800 protein

Chain 1Y:

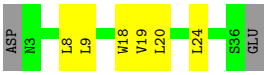




• Molecule 27: Os08g0119800 protein

Chain 1y:

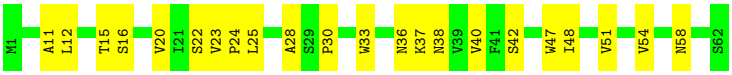




• Molecule 28: Photosystem II reaction center protein Z

Chain 1Z:

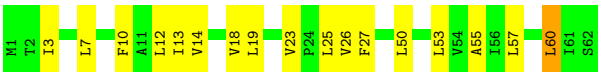




• Molecule 28: Photosystem II reaction center protein Z

Chain 1z:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	172752	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.375	Depositor
Minimum defocus (nm)	1400	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.753	Depositor
Minimum map value	0.000	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.0004	Depositor
Map size (Å)	656.0, 656.0, 656.0	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.82, 0.82, 0.82	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: FE2, LUT, VIV, XAT, OEX, 3PH, LHG, PHO, CL, HEM, SQD, BCT, CHL, MGE, CLA, LNL, PL9, DGD, BCR

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	00	0.30	0/1710	0.63	3/2332 (0.1%)
1	01	0.32	1/1685 (0.1%)	0.71	4/2297 (0.2%)
1	02	0.27	0/1623	0.63	0/2219
1	05	0.25	0/1597	0.67	0/2176
1	06	0.35	1/1485 (0.1%)	0.71	5/2030 (0.2%)
1	09	0.28	0/1710	0.55	2/2332 (0.1%)
1	11	0.34	1/1114 (0.1%)	0.69	3/1552 (0.2%)
1	14	0.34	1/1107 (0.1%)	0.69	3/1543 (0.2%)
1	17	0.35	1/1107 (0.1%)	0.71	3/1543 (0.2%)
1	1G	0.31	0/1707	0.62	1/2325 (0.0%)
1	1N	0.35	0/1702	0.72	5/2321 (0.2%)
1	1g	0.25	0/1706	0.58	1/2328 (0.0%)
1	1n	0.25	0/1703	0.55	2/2323 (0.1%)
1	20	0.34	1/1107 (0.1%)	0.69	3/1543 (0.2%)
2	03	0.23	0/1736	0.63	0/2366
2	07	0.28	0/1696	0.69	1/2312 (0.0%)
3	04	0.31	0/1585	0.78	5/2162 (0.2%)
3	08	0.31	0/1626	0.69	1/2217 (0.0%)
4	12	0.18	0/1127	0.45	0/1571
4	15	0.18	0/1127	0.45	0/1571
4	18	0.18	0/1127	0.45	0/1571
4	21	0.18	0/1127	0.45	0/1571
5	13	0.17	0/1109	0.42	1/1547 (0.1%)
5	16	0.17	0/1109	0.42	1/1547 (0.1%)
5	19	0.17	0/1109	0.42	1/1547 (0.1%)
5	22	0.17	0/1109	0.42	1/1547 (0.1%)
6	1A	0.30	0/2693	0.61	2/3672 (0.1%)
6	1a	0.31	0/2687	0.58	2/3665 (0.1%)
7	1B	0.27	0/4077	0.52	1/5551 (0.0%)
7	1b	0.26	0/4077	0.52	3/5551 (0.1%)
8	1C	0.24	0/3603	0.48	0/4910

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	1c	0.25	0/3615	0.50	0/4922
9	1D	0.30	1/2801 (0.0%)	0.59	2/3818 (0.1%)
9	1d	0.29	0/2809	0.58	2/3829 (0.1%)
10	1E	0.26	0/632	0.53	0/860
10	1e	0.23	0/632	0.52	0/860
11	1F	0.43	0/295	0.62	0/400
11	1f	0.22	0/248	0.46	0/335
12	1H	0.25	0/464	0.56	0/630
12	1h	0.26	0/464	0.62	0/630
13	1I	0.51	0/285	0.62	0/385
13	1i	0.26	0/285	0.60	0/385
14	1J	0.24	0/261	0.63	0/353
14	1j	0.30	0/261	0.71	1/353 (0.3%)
15	1K	0.27	0/317	0.57	0/433
15	1k	0.25	0/317	0.51	0/433
16	1L	0.26	0/312	0.51	0/424
16	1l	0.29	0/303	0.61	0/412
17	1M	0.34	0/251	0.89	0/344
17	1m	0.32	0/255	0.64	0/350
18	1O	0.25	0/1898	0.59	1/2567 (0.0%)
18	1o	0.24	0/1829	0.52	0/2470
19	1P	0.19	0/1452	0.48	0/1961
19	1p	0.19	0/1452	0.43	0/1961
20	1R	0.24	0/1890	0.55	0/2574
20	1r	0.22	0/1890	0.54	0/2574
21	1S	0.23	0/1706	0.55	0/2322
21	1s	0.25	0/1702	0.59	0/2313
22	1T	0.19	0/269	0.40	0/365
22	1t	0.17	0/260	0.37	0/354
23	1U	0.12	0/211	0.31	0/281
23	1u	0.21	0/211	0.63	1/281 (0.4%)
24	1V	0.22	0/731	0.50	0/991
24	1v	0.28	0/697	0.68	2/952 (0.2%)
25	1W	0.27	0/419	0.62	0/567
25	1w	0.23	0/339	0.57	0/462
26	1X	0.23	0/279	0.47	0/380
26	1x	0.23	0/275	0.48	0/375
27	1Y	0.29	0/275	0.57	0/376
27	1y	0.24	0/273	0.56	0/373
28	1Z	0.33	0/476	0.70	0/652
28	1z	0.23	0/476	0.51	0/652
All	All	0.27	7/87604 (0.0%)	0.58	63/119701 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	02	0	1
1	05	0	1
1	06	0	1
1	1G	0	1
1	1N	0	4
1	1n	0	2
3	04	0	1
6	1a	0	1
7	1b	0	1
18	1o	0	1
All	All	0	14

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	06	170	PRO	CG-CD	-9.04	1.20	1.50
1	14	170	PRO	CG-CD	-7.22	1.26	1.50
1	17	170	PRO	CG-CD	-7.21	1.26	1.50
1	20	170	PRO	CG-CD	-7.20	1.26	1.50
1	11	170	PRO	CG-CD	-7.19	1.26	1.50
9	1D	39	PHE	C-N	5.18	1.38	1.33
1	01	216	PRO	CG-CD	-5.17	1.33	1.50

All (63) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	20	170	PRO	N-CD-CG	-14.12	82.01	103.20
1	17	170	PRO	N-CD-CG	-14.11	82.04	103.20
1	11	170	PRO	N-CD-CG	-14.10	82.05	103.20
1	14	170	PRO	N-CD-CG	-14.08	82.08	103.20
1	06	170	PRO	N-CD-CG	-10.77	87.04	103.20
1	06	170	PRO	CA-N-CD	-10.42	97.42	112.00
1	17	170	PRO	CA-CB-CG	-10.24	85.05	104.50
1	11	170	PRO	CA-CB-CG	-10.22	85.08	104.50
1	14	170	PRO	CA-CB-CG	-10.21	85.09	104.50
1	20	170	PRO	CA-CB-CG	-10.21	85.10	104.50
1	01	94	GLU	N-CA-C	-8.94	102.89	113.88
1	01	216	PRO	N-CD-CG	-8.44	90.54	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1N	170	PRO	CA-N-CD	-8.23	100.48	112.00
7	1b	201	HIS	CB-CA-C	7.82	122.20	109.07
7	1b	201	HIS	CA-CB-CG	7.65	121.45	113.80
1	14	170	PRO	N-CA-CB	-7.63	94.93	103.33
1	11	170	PRO	N-CA-CB	-7.63	94.94	103.33
1	20	170	PRO	N-CA-CB	-7.61	94.96	103.33
1	17	170	PRO	N-CA-CB	-7.61	94.96	103.33
7	1b	192	PRO	CA-N-CD	-7.55	101.44	112.00
1	1N	24	TYR	CA-C-N	-7.48	111.86	125.02
1	1N	24	TYR	C-N-CA	-7.48	111.86	125.02
1	06	170	PRO	CA-CB-CG	-6.96	91.28	104.50
1	01	216	PRO	CA-N-CD	-6.90	102.33	112.00
1	1n	197	GLN	CA-CB-CG	6.72	127.54	114.10
6	1a	320	ILE	N-CA-C	-6.71	107.33	113.71
3	08	46	PHE	N-CA-C	-6.64	105.31	113.41
1	1n	70	ARG	CB-CG-CD	-6.29	96.82	111.30
6	1A	284	TRP	CA-CB-CG	6.18	125.34	113.60
5	16	55	PRO	CA-N-CD	-5.78	103.92	112.00
6	1a	284	TRP	CA-CB-CG	5.77	124.57	113.60
5	19	55	PRO	CA-N-CD	-5.77	103.92	112.00
5	13	55	PRO	CA-N-CD	-5.77	103.92	112.00
5	22	55	PRO	CA-N-CD	-5.75	103.95	112.00
1	1N	77	LEU	CA-CB-CG	5.75	136.42	116.30
3	04	66	LEU	CA-CB-CG	5.73	136.35	116.30
18	1O	49	LYS	N-CA-C	5.70	115.81	108.34
1	1G	128	TRP	CE3-CZ3-CH2	5.66	128.45	121.10
14	1j	9	PRO	CA-N-CD	-5.65	104.09	112.00
2	07	77	HIS	N-CA-CB	5.57	118.41	110.06
3	04	13	PHE	CA-C-N	5.55	132.14	121.54
3	04	13	PHE	C-N-CA	5.55	132.14	121.54
23	1u	116	LYS	CA-CB-CG	5.54	125.17	114.10
1	1N	197	GLN	CB-CG-CD	5.53	122.01	112.60
9	1D	267	TRP	CA-C-N	5.53	132.10	121.54
9	1D	267	TRP	C-N-CA	5.53	132.10	121.54
1	06	78	GLY	CA-C-N	5.49	129.88	120.71
1	06	78	GLY	C-N-CA	5.49	129.88	120.71
24	1v	93	LEU	N-CA-C	-5.39	105.30	111.07
1	01	134	LEU	CA-CB-CG	5.38	135.12	116.30
6	1A	63	ILE	CA-CB-CG1	5.34	119.48	110.40
3	04	20	ILE	CA-C-N	5.33	128.25	120.51
3	04	20	ILE	C-N-CA	5.33	128.25	120.51
1	00	159	GLY	N-CA-C	5.32	119.33	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	09	180	GLU	CA-CB-CG	5.28	124.66	114.10
24	1v	88	LEU	CA-CB-CG	5.26	134.72	116.30
1	00	158	GLY	CA-C-N	5.17	125.82	120.03
1	00	158	GLY	C-N-CA	5.17	125.82	120.03
9	1d	29	VAL	CA-C-N	5.16	129.60	121.56
9	1d	29	VAL	C-N-CA	5.16	129.60	121.56
1	1g	191	MET	CB-CG-SD	5.15	128.16	112.70
1	09	64	LEU	CA-CB-CG	5.15	134.31	116.30
7	1B	256	MET	CB-CG-SD	-5.09	97.43	112.70

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	02	156	TYR	Peptide
3	04	104	LEU	Peptide
1	05	95	ALA	Peptide
1	06	189	PHE	Peptide
1	1G	192	PHE	Peptide
1	1N	192	PHE	Peptide
1	1N	197	GLN	Sidechain
1	1N	24	TYR	Peptide
1	1N	62	ARG	Sidechain
6	1a	340	PRO	Peptide
7	1b	201	HIS	Sidechain
1	1n	192	PHE	Peptide
1	1n	70	ARG	Sidechain
18	1o	92	PRO	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	00	1659	0	1598	75	0
1	01	1637	0	1572	64	0
1	02	1576	0	1470	21	0
1	05	1555	0	1473	32	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	06	1450	0	1320	28	0
1	09	1659	0	1598	62	0
1	11	1099	0	619	2	0
1	14	1093	0	612	2	0
1	17	1093	0	612	3	0
1	1G	1658	0	1595	36	0
1	1N	1652	0	1589	46	0
1	1g	1655	0	1586	35	0
1	1n	1653	0	1591	41	0
1	20	1093	0	612	1	0
2	03	1685	0	1612	34	0
2	07	1648	0	1561	31	0
3	04	1532	0	1450	26	0
3	08	1570	0	1469	31	0
4	12	1112	0	618	0	0
4	15	1112	0	618	0	0
4	18	1112	0	618	0	0
4	21	1112	0	618	0	0
5	13	1094	0	618	0	0
5	16	1094	0	618	0	0
5	19	1094	0	618	0	0
5	22	1094	0	618	0	0
6	1A	2612	0	2522	88	0
6	1a	2606	0	2517	115	0
7	1B	3945	0	3810	110	0
7	1b	3945	0	3810	116	0
8	1C	3486	0	3396	100	0
8	1c	3498	0	3421	96	0
9	1D	2708	0	2598	87	0
9	1d	2716	0	2604	109	0
10	1E	614	0	592	19	0
10	1e	614	0	592	28	0
11	1F	286	0	293	21	0
11	1f	241	0	246	13	0
12	1H	454	0	473	11	0
12	1h	454	0	473	13	0
13	1I	277	0	289	27	0
13	1i	277	0	289	14	0
14	1J	255	0	265	8	0
14	1j	255	0	265	12	0
15	1K	305	0	311	11	0
15	1k	305	0	311	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	1L	304	0	292	12	0
16	1l	295	0	284	13	0
17	1M	247	0	272	10	0
17	1m	251	0	274	11	0
18	1O	1861	0	1847	43	0
18	1o	1795	0	1783	39	0
19	1P	1422	0	1384	15	0
19	1p	1422	0	1384	30	0
20	1R	1837	0	1786	46	0
20	1r	1837	0	1785	40	0
21	1S	1661	0	1613	44	0
21	1s	1658	0	1620	40	0
22	1T	261	0	280	10	0
22	1t	252	0	267	7	0
23	1U	208	0	221	3	0
23	1u	208	0	221	6	0
24	1V	715	0	721	18	0
24	1v	683	0	648	27	0
25	1W	413	0	401	14	0
25	1w	333	0	332	9	0
26	1X	276	0	303	8	0
26	1x	272	0	300	10	0
27	1Y	270	0	289	5	0
27	1y	268	0	290	4	0
28	1Z	466	0	494	15	0
28	1z	466	0	494	13	0
29	00	437	0	397	24	0
29	01	424	0	375	22	0
29	02	348	0	240	7	0
29	03	313	0	233	11	0
29	04	341	0	231	5	0
29	05	331	0	224	7	0
29	06	257	0	183	8	0
29	07	292	0	198	4	0
29	08	282	0	191	8	0
29	09	372	0	291	29	0
29	1A	106	0	94	3	0
29	1B	958	0	977	61	0
29	1C	751	0	736	38	0
29	1D	222	0	214	16	0
29	1G	380	0	304	13	0
29	1N	366	0	289	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	1R	422	0	319	20	0
29	1S	389	0	280	14	0
29	1a	162	0	141	6	0
29	1b	940	0	935	45	0
29	1c	751	0	731	45	0
29	1d	174	0	166	11	0
29	1g	414	0	354	17	0
29	1n	412	0	356	22	0
29	1r	425	0	329	16	0
29	1s	415	0	316	16	0
30	00	290	0	269	26	0
30	01	263	0	213	19	0
30	02	273	0	177	5	0
30	03	216	0	139	4	0
30	04	218	0	143	7	0
30	05	274	0	191	10	0
30	06	218	0	137	1	0
30	07	203	0	120	3	0
30	08	207	0	125	1	0
30	09	231	0	168	11	0
30	1G	302	0	244	13	0
30	1N	330	0	295	27	0
30	1R	170	0	104	4	0
30	1S	171	0	109	9	0
30	1g	305	0	236	12	0
30	1n	328	0	279	27	0
30	1r	185	0	124	4	0
30	1s	176	0	115	6	0
31	00	84	0	112	13	0
31	01	84	0	112	10	0
31	03	42	0	56	7	0
31	05	42	0	56	4	0
31	07	42	0	56	6	0
31	09	84	0	112	16	0
31	1G	84	0	112	12	0
31	1N	41	0	53	3	0
31	1R	42	0	56	5	0
31	1S	84	0	112	17	0
31	1g	84	0	112	9	0
31	1n	42	0	56	4	0
31	1r	42	0	56	6	0
31	1s	84	0	112	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
32	00	21	0	26	3	0
32	09	31	0	49	1	0
33	00	175	0	246	13	0
33	01	36	0	42	4	0
33	03	45	0	63	2	0
33	07	49	0	74	0	0
33	09	86	0	118	9	0
33	1B	38	0	46	2	0
33	1C	243	0	285	13	0
33	1D	147	0	181	5	0
33	1E	30	0	30	0	0
33	1F	42	0	58	2	0
33	1G	41	0	55	4	0
33	1I	71	0	88	5	0
33	1J	45	0	67	5	0
33	1K	43	0	60	1	0
33	1L	49	0	74	2	0
33	1N	131	0	178	14	0
33	1P	45	0	67	7	0
33	1R	75	0	93	4	0
33	1S	94	0	109	9	0
33	1V	49	0	74	2	0
33	1W	79	0	101	4	0
33	1a	73	0	86	13	0
33	1b	189	0	238	19	0
33	1c	70	0	86	7	0
33	1d	77	0	97	4	0
33	1e	42	0	57	3	0
33	1g	36	0	42	0	0
33	1j	41	0	52	2	0
33	1n	81	0	114	5	0
33	1r	29	0	29	1	0
33	1s	85	0	103	7	0
33	1t	39	0	56	3	0
33	1v	41	0	52	3	0
33	1w	114	0	147	9	0
34	00	61	0	83	7	0
34	1A	55	0	68	6	0
34	1B	172	0	221	11	0
34	1C	173	0	220	16	0
34	1S	46	0	50	3	0
34	1b	62	0	82	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	1c	156	0	186	8	0
35	04	40	0	56	6	0
35	1A	40	0	56	4	0
35	1B	160	0	224	22	0
35	1D	40	0	56	4	0
35	1H	40	0	56	2	0
35	1I	40	0	56	6	0
35	1J	40	0	56	4	0
35	1Z	80	0	112	9	0
35	1a	40	0	56	5	0
35	1b	160	0	224	23	0
35	1c	40	0	56	6	0
35	1d	40	0	56	1	0
35	1h	40	0	56	3	0
35	1i	40	0	56	7	0
35	1j	40	0	56	5	0
35	1k	40	0	56	4	0
36	1A	1	0	0	0	0
36	1a	1	0	0	0	0
37	1A	2	0	0	0	0
37	1a	1	0	0	1	0
37	1c	1	0	0	0	0
38	1A	128	0	148	7	0
38	1a	40	0	31	1	0
38	1d	64	0	74	6	0
39	1A	10	0	0	0	0
39	1a	10	0	0	0	0
40	1A	55	0	80	6	0
40	1D	55	0	80	6	0
40	1E	55	0	80	28	0
40	1R	55	0	80	7	0
40	1a	55	0	80	21	0
40	1d	55	0	80	7	0
40	1e	21	0	23	9	0
40	1r	55	0	80	4	0
41	1A	135	0	162	10	0
41	1B	189	0	243	17	0
41	1C	51	0	69	5	0
41	1D	89	0	106	7	0
41	1L	53	0	73	5	0
41	1S	46	0	56	5	0
41	1a	96	0	123	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	1b	102	0	138	13	0
41	1c	54	0	78	8	0
41	1d	87	0	105	6	0
41	1l	42	0	48	3	0
41	1m	42	0	48	6	0
41	1s	44	0	52	4	0
41	1w	40	0	44	3	0
42	1B	87	0	120	5	0
42	1C	45	0	63	4	0
42	1k	36	0	42	5	0
42	1s	41	0	52	2	0
43	1C	35	0	45	1	0
43	1c	17	0	22	4	0
44	1D	4	0	0	1	0
44	1d	4	0	0	0	0
45	1E	43	0	30	4	0
45	1f	43	0	30	6	0
46	1G	88	0	112	8	0
46	1R	44	0	56	8	0
46	1g	88	0	112	8	0
46	1r	44	0	56	3	0
47	1X	39	0	51	1	0
All	All	107869	0	99523	2414	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 12.

All (2414) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:09:190:SER:HA	29:09:317:CLA:HBB1	1.51	0.92
40:1a:412:PL9:H312	38:1d:404:PHO:H2	1.55	0.88
40:1E:102:PL9:H371	33:1P:201:LHG:H202	1.59	0.85
9:1D:130:GLN:NE2	9:1D:143:ASN:OD1	2.09	0.84
30:01:303:CHL:HBB2	30:01:304:CHL:HBB1	1.60	0.82
7:1B:114:HIS:HE1	29:1B:614:CLA:ND	1.75	0.82
1:09:194:PHE:HE1	31:09:313:LUT:H8	1.43	0.80
1:06:68:HIS:HE1	29:06:602:CLA:NC	1.81	0.78
1:1n:69:SER:HB3	1:1n:184:GLY:HA3	1.67	0.76
40:1a:412:PL9:H503	9:1d:39:PHE:HB2	1.67	0.76
1:06:97:TRP:H	1:06:205:PRO:HG3	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1D:252:ARG:HD2	9:1D:256:GLN:HE21	1.52	0.75
30:00:305:CHL:HBB1	31:00:314:LUT:H161	1.68	0.75
29:1D:402:CLA:HAB	29:1D:404:CLA:H72	1.67	0.75
9:1D:265:LYS:HE2	9:1D:269:HIS:HE1	1.52	0.74
40:1E:102:PL9:H461	40:1E:102:PL9:H352	1.69	0.74
1:01:131:GLN:HE22	30:01:304:CHL:HMC	1.52	0.74
1:1G:69:SER:HB2	1:1G:184:GLY:HA3	1.70	0.74
1:1n:131:GLN:HE22	30:1n:607:CHL:HMC	1.53	0.74
21:1S:200:MET:HG2	31:1S:318:LUT:H14	1.70	0.73
1:09:196:VAL:HA	1:09:199:ILE:HD12	1.69	0.72
9:1D:142:TYR:HA	9:1D:145:ILE:HD12	1.69	0.72
29:03:306:CLA:HBB1	31:03:313:LUT:H32	1.71	0.72
7:1b:141:ILE:HG13	7:1b:217:LEU:HD21	1.70	0.72
6:1A:223:LEU:HB2	9:1D:140:ARG:HH21	1.54	0.72
40:1E:102:PL9:H18	11:1F:25:VAL:HG12	1.70	0.72
20:1r:108:LEU:HD21	29:1r:311:CLA:HAB	1.72	0.72
18:1o:130:ILE:HD11	18:1o:133:LEU:HD22	1.71	0.71
20:1r:97:LEU:HD21	20:1r:172:LEU:HD12	1.72	0.71
6:1a:186:PHE:HB3	6:1a:192:ILE:HD11	1.71	0.71
13:1I:5:LYS:HD2	25:1W:6:MET:HE1	1.73	0.71
7:1B:16:PRO:HG2	7:1B:123:PHE:HB3	1.74	0.70
1:01:60:LYS:HE2	2:03:58:ALA:H	1.57	0.70
35:1B:619:BCR:H271	22:1t:22:PHE:HB3	1.73	0.70
40:1D:407:PL9:H122	33:1D:409:LHG:HC92	1.73	0.70
40:1a:412:PL9:H472	9:1d:39:PHE:HD2	1.56	0.70
1:01:185:ARG:HB3	29:01:301:CLA:HBC3	1.73	0.70
6:1a:259:ILE:HD12	40:1a:412:PL9:H253	1.74	0.70
9:1D:193:THR:HG23	29:1D:404:CLA:HBC2	1.73	0.70
9:1d:52:GLY:HA2	9:1d:56:VAL:HB	1.74	0.70
9:1d:173:SER:HB2	9:1d:178:ALA:HB1	1.72	0.70
1:00:97:TRP:HZ3	1:00:204:GLY:HA2	1.56	0.69
1:09:99:LYS:HA	30:09:306:CHL:HED2	1.75	0.69
29:1G:602:CLA:H52	29:1G:602:CLA:HBB1	1.74	0.69
9:1D:187:GLN:HB2	29:1D:404:CLA:HBC1	1.75	0.68
1:05:70:ARG:NH2	1:05:155:LEU:O	2.27	0.68
2:07:144:LEU:O	2:07:148:VAL:N	2.27	0.68
1:1N:131:GLN:HE22	30:1N:308:CHL:HMC	1.58	0.68
24:1V:50:TYR:HB3	24:1V:53:SER:HB3	1.76	0.68
6:1A:85:THR:HA	6:1A:109:GLY:HA3	1.76	0.68
1:1N:188:MET:HA	1:1N:192:PHE:HD2	1.57	0.68
7:1b:205:ALA:O	7:1b:209:GLY:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1a:27:ARG:HD2	8:1c:473:ASN:HD22	1.58	0.67
8:1c:181:TYR:HA	8:1c:198:LYS:HE3	1.76	0.67
1:01:101:GLY:C	1:01:103:GLN:H	2.03	0.67
30:05:304:CHL:HBB2	30:05:305:CHL:HBB1	1.77	0.67
1:1N:15:PRO:HG2	1:1N:16:TRP:HD1	1.60	0.67
8:1C:53:HIS:CD2	29:1C:508:CLA:NA	2.62	0.67
8:1C:68:ASN:ND2	8:1C:111:TYR:O	2.27	0.67
7:1B:311:PHE:O	7:1B:317:ASN:ND2	2.28	0.67
1:01:92:PHE:HB3	1:01:96:VAL:HG22	1.77	0.67
29:00:302:CLA:H2	1:1G:51:LEU:HD11	1.76	0.66
30:1n:605:CHL:HBC2	33:1n:617:LHG:H172	1.77	0.66
41:1B:628:SQD:H191	35:1B:630:BCR:HC42	1.76	0.66
9:1D:140:ARG:HD2	9:1D:142:TYR:HE1	1.58	0.66
7:1B:13:LEU:HD21	7:1B:476:ARG:HH22	1.61	0.66
20:1R:105:LEU:HA	20:1R:108:LEU:HD12	1.78	0.66
7:1b:165:GLY:HA3	7:1b:179:GLN:O	1.95	0.66
1:09:194:PHE:CE1	31:09:313:LUT:H8	2.28	0.66
1:01:192:PHE:HB2	31:01:315:LUT:H35	1.77	0.66
3:04:59:ARG:NH1	30:04:303:CHL:OBD	2.29	0.66
7:1b:201:HIS:HB2	29:1b:603:CLA:C4B	2.27	0.65
1:00:83:GLU:HB3	1:00:206:LEU:HD13	1.78	0.65
29:1c:506:CLA:H42	34:1c:519:DGD:HB32	1.79	0.65
2:07:83:LEU:HB3	29:07:310:CLA:HBB2	1.79	0.65
6:1a:184:ILE:HG21	9:1d:322:LEU:HD13	1.78	0.65
1:09:64:LEU:HD11	1:1g:49:ALA:HA	1.78	0.65
29:1B:609:CLA:H72	29:1B:611:CLA:H51	1.79	0.65
30:1g:607:CHL:HBB1	30:1n:601:CHL:H151	1.79	0.65
30:09:305:CHL:HMB2	30:09:308:CHL:HMC	1.79	0.65
1:1g:69:SER:HB2	1:1g:184:GLY:HA3	1.78	0.65
40:1E:102:PL9:H361	33:1P:201:LHG:H371	1.78	0.65
29:1g:602:CLA:HBB1	29:1g:602:CLA:H52	1.79	0.65
6:1a:316:THR:H	6:1a:319:ASP:HB2	1.62	0.65
33:00:319:LHG:H121	30:1N:310:CHL:HBB1	1.77	0.64
7:1B:214:LEU:HD11	34:1B:626:DGD:HB61	1.78	0.64
1:1G:67:ILE:HG12	1:1G:155:LEU:HD21	1.80	0.64
30:1g:609:CHL:HBB1	30:1n:601:CHL:H51	1.78	0.64
7:1b:497:LYS:HA	9:1d:25:ARG:HA	1.79	0.64
30:1n:606:CHL:HBB1	31:1n:615:LUT:H161	1.78	0.64
1:01:83:GLU:OE1	1:01:98:PHE:HA	1.98	0.64
2:07:207:VAL:HA	2:07:210:ILE:HD12	1.80	0.64
6:1A:329:GLU:HG2	8:1C:412:THR:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1d:403:CLA:H52	40:1d:410:PL9:H151	1.79	0.64
1:00:49:ALA:HA	1:1N:64:LEU:HD11	1.80	0.63
1:00:135:MET:HA	1:00:138:VAL:HG22	1.79	0.63
29:00:318:CLA:H102	33:00:319:LHG:H272	1.80	0.63
7:1b:42:LEU:HD13	7:1b:94:GLU:HG3	1.80	0.63
1:05:43:ASP:H	29:05:301:CLA:HED3	1.63	0.63
1:01:174:ALA:O	1:01:177:LYS:HB3	1.98	0.63
41:1B:620:SQD:H5	41:1m:101:SQD:H3	1.80	0.63
8:1c:53:HIS:CE1	29:1c:511:CLA:NC	2.66	0.63
9:1D:269:HIS:NE2	44:1D:403:BCT:O2	2.31	0.63
16:1L:24:LEU:HD23	33:1L:101:LHG:H271	1.80	0.63
6:1a:156:ALA:HA	6:1a:160:ILE:HB	1.81	0.63
8:1c:227:VAL:HG11	35:1i:101:BCR:H291	1.81	0.63
19:1p:57:SER:HA	19:1p:162:GLN:O	1.99	0.63
21:1S:98:CYS:HB3	21:1S:103:ALA:HB3	1.80	0.63
21:1S:218:LEU:HD13	31:1S:317:LUT:H163	1.79	0.63
6:1A:259:ILE:HD12	40:1A:410:PL9:H23	1.81	0.62
12:1H:42:PHE:HB3	40:1R:301:PL9:H221	1.80	0.62
13:1I:9:TYR:O	13:1I:13:ILE:HG12	1.99	0.62
41:1c:517:SQD:H101	41:1c:517:SQD:H242	1.81	0.62
1:05:183:ASN:ND2	29:05:309:CLA:OBD	2.32	0.62
9:1D:108:LEU:HD23	10:1E:66:ILE:HD13	1.81	0.62
40:1E:102:PL9:H28	40:1E:102:PL9:C25	2.29	0.62
1:1N:64:LEU:HD13	29:1N:304:CLA:HBA1	1.81	0.62
30:1S:307:CHL:HBB1	31:1S:318:LUT:H161	1.79	0.62
29:1g:610:CLA:HBB1	31:1g:615:LUT:H32	1.81	0.62
6:1A:282:GLY:O	6:1A:286:THR:OG1	2.17	0.62
8:1C:134:LEU:HD21	29:1C:510:CLA:H12	1.80	0.62
34:1C:517:DGD:HG31	41:1C:521:SQD:H81	1.80	0.62
33:1N:318:LHG:H162	33:1S:303:LHG:H302	1.82	0.62
24:1V:99:GLY:HA2	24:1V:102:ILE:HD12	1.81	0.62
8:1c:361:LEU:O	8:1c:370:ARG:NH2	2.33	0.62
1:02:23:LEU:HG	1:02:30:GLY:HA2	1.81	0.62
7:1B:220:ARG:HD3	12:1H:32:LYS:HB3	1.82	0.62
11:1F:14:TRP:O	11:1F:18:HIS:ND1	2.31	0.62
7:1b:269:GLY:O	7:1b:448:ARG:NH1	2.31	0.62
9:1d:69:LEU:HD11	10:1e:43:ALA:HB1	1.82	0.62
23:1u:113:GLU:HA	23:1u:116:LYS:HG2	1.82	0.62
1:1N:197:GLN:HG2	29:1N:314:CLA:C1D	2.29	0.62
6:1A:183:MET:HE3	29:1D:401:CLA:HAC1	1.81	0.62
6:1a:192:ILE:HG23	6:1a:293:MET:HE1	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1a:211:PHE:CE1	40:1a:412:PL9:H13	2.34	0.62
6:1a:272:HIS:HA	6:1a:275:LEU:HD12	1.82	0.62
7:1b:89:GLY:HA3	33:1b:624:LHG:HC12	1.82	0.62
7:1B:91:TRP:HE1	33:1B:621:LHG:HC62	1.65	0.62
30:1N:307:CHL:HBB1	31:1N:316:LUT:H161	1.81	0.62
29:1C:510:CLA:H203	35:1Z:102:BCR:H17C	1.82	0.62
29:09:301:CLA:HBB1	31:09:314:LUT:H32	1.81	0.62
8:1C:215:LYS:HG2	8:1C:221:GLU:HB3	1.82	0.62
9:1d:18:ILE:HG22	26:1x:76:SER:HB2	1.80	0.62
6:1A:215:HIS:HA	40:1A:410:PL9:HC2	1.81	0.62
13:1I:3:THR:HA	13:1I:6:LEU:HD12	1.82	0.62
6:1A:183:MET:HB3	29:1A:404:CLA:HBC2	1.81	0.61
6:1a:334:ARG:NH2	9:1d:313:GLU:OE2	2.33	0.61
40:1a:412:PL9:H202	38:1d:404:PHO:HED2	1.82	0.61
7:1b:384:ARG:NH2	19:1p:139:ASP:OD2	2.33	0.61
1:00:188:MET:SD	29:00:301:CLA:HBB1	2.40	0.61
33:1C:527:LHG:H151	33:1C:527:LHG:H252	1.82	0.61
20:1R:97:LEU:HD21	20:1R:172:LEU:HB2	1.82	0.61
6:1a:325:ASN:HA	6:1a:328:MET:HE2	1.82	0.61
23:1u:110:GLY:HA3	23:1u:133:ASN:HB2	1.82	0.61
1:00:69:SER:HB2	1:00:184:GLY:HA3	1.81	0.61
1:09:197:GLN:HG2	29:09:317:CLA:ND	2.14	0.61
1:05:60:LYS:HB3	2:07:58:ALA:HA	1.82	0.61
1:09:193:GLY:O	1:09:197:GLN:HG3	1.99	0.61
15:1K:44:PRO:O	15:1K:47:PHE:HB2	2.00	0.61
29:03:312:CLA:HBB1	31:03:313:LUT:H12	1.83	0.61
1:01:132:VAL:HG13	30:01:306:CHL:HBB2	1.82	0.61
7:1B:30:VAL:HG12	29:1B:603:CLA:HHD	1.81	0.61
29:1B:610:CLA:H152	29:1B:616:CLA:HBA2	1.83	0.61
30:1G:609:CHL:HBB1	30:1N:302:CHL:H51	1.82	0.61
31:1s:317:LUT:H8	31:1s:317:LUT:H171	1.82	0.61
1:00:51:LEU:HD13	29:00:301:CLA:H42	1.81	0.61
2:03:151:TYR:O	2:03:154:ASN:ND2	2.34	0.61
1:09:193:GLY:O	1:09:194:PHE:C	2.44	0.61
21:1S:166:PRO:HB3	30:1S:309:CHL:HBC2	1.81	0.61
41:1a:410:SQD:O9	9:1d:231:ASN:ND2	2.30	0.61
35:1c:516:BCR:H391	15:1k:51:ALA:HB2	1.83	0.61
8:1C:343:ARG:NH1	18:1O:87:ASP:OD1	2.32	0.61
7:1b:124:CYS:HA	7:1b:131:PRO:HA	1.83	0.61
18:1o:57:SER:OG	18:1o:239:GLN:OE1	2.19	0.61
7:1B:39:LEU:HD22	41:1B:622:SQD:H111	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1b:612:CLA:H201	29:1b:614:CLA:HMA3	1.82	0.61
1:1n:99:LYS:HA	30:1n:607:CHL:HED2	1.83	0.61
6:1A:34:GLY:HA2	6:1A:37:MET:HB3	1.83	0.60
8:1C:42:LEU:HD22	8:1C:48:LYS:HB2	1.83	0.60
20:1R:229:THR:HB	20:1R:237:THR:HG21	1.83	0.60
14:1j:10:LEU:HA	14:1j:13:ILE:HD12	1.82	0.60
20:1r:173:TYR:HB3	29:1r:309:CLA:HED2	1.83	0.60
1:02:96:VAL:HG12	1:02:99:LYS:H	1.65	0.60
2:03:114:ILE:HA	2:03:119:GLY:HA2	1.81	0.60
6:1A:57:PRO:O	18:1O:123:ARG:NH2	2.33	0.60
30:1G:606:CHL:HMB1	30:1G:609:CHL:HMC	1.83	0.60
29:1b:602:CLA:HAB	35:1h:101:BCR:H383	1.83	0.60
6:1A:223:LEU:O	9:1D:140:ARG:NH2	2.35	0.60
9:1d:287:VAL:HA	9:1d:290:LEU:HD12	1.83	0.60
3:04:122:GLN:NE2	20:1R:16:PRO:O	2.35	0.60
33:1C:522:LHG:H131	33:1N:301:LHG:H261	1.83	0.60
2:03:161:ASP:H	2:03:164:ASP:HB2	1.64	0.60
41:1A:411:SQD:H311	29:1C:507:CLA:H8	1.82	0.60
8:1c:178:LYS:HA	8:1c:182:PHE:HB2	1.83	0.60
6:1A:147:TYR:OH	38:1A:405:PHO:O1A	2.17	0.60
20:1r:215:GLN:NE2	29:1r:312:CLA:C4D	2.62	0.60
1:00:41:PRO:HG3	1:00:177:LYS:HD2	1.83	0.60
33:09:316:LHG:H312	33:09:316:LHG:HC91	1.84	0.60
7:1b:233:ASN:HB3	7:1b:236:THR:HG23	1.84	0.60
1:1g:64:LEU:HD11	1:1n:49:ALA:HA	1.83	0.60
30:09:305:CHL:HBB1	31:09:314:LUT:H161	1.84	0.60
9:1D:187:GLN:NE2	9:1D:323:ASN:OD1	2.35	0.60
14:1j:23:GLY:HA2	33:1j:102:LHG:H322	1.83	0.60
1:09:139:GLU:OE2	1:09:142:ARG:NH2	2.35	0.60
8:1C:273:SER:HA	8:1C:276:LEU:HD12	1.84	0.60
1:1G:51:LEU:HD13	29:1G:602:CLA:H42	1.83	0.60
1:00:97:TRP:CZ3	1:00:204:GLY:HA2	2.37	0.59
1:05:61:ASN:HA	1:05:64:LEU:HB2	1.84	0.59
8:1C:117:LEU:HD11	41:1S:302:SQD:H101	1.83	0.59
8:1C:470:THR:O	9:1D:252:ARG:NH2	2.34	0.59
6:1a:216:GLY:HA2	9:1d:269:HIS:HB3	1.84	0.59
33:1b:628:LHG:H141	16:1l:24:LEU:HD12	1.84	0.59
1:1g:156:TYR:HB3	29:1g:610:CLA:HED2	1.84	0.59
31:01:314:LUT:H171	31:01:314:LUT:H8	1.83	0.59
7:1B:272:ARG:NH1	7:1B:276:ASP:OD2	2.35	0.59
9:1D:238:PRO:HD3	24:1V:60:VAL:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1o:60:VAL:HB	18:1o:118:LEU:HD21	1.84	0.59
20:1R:214:VAL:HA	20:1R:217:ALA:HB3	1.84	0.59
1:14:216:PRO:HA	1:14:219:ASN:O	2.01	0.59
6:1A:137:LEU:HD12	8:1C:466:VAL:HG22	1.84	0.59
22:1T:24:ARG:HH12	22:1T:27:PRO:HD3	1.68	0.59
6:1a:64:ARG:O	18:1o:152:ARG:NH2	2.34	0.59
8:1c:402:GLY:HA3	8:1c:420:VAL:HG22	1.85	0.59
21:1S:116:ALA:HB2	30:1S:308:CHL:HED1	1.85	0.59
21:1S:229:ASN:ND2	41:1S:302:SQD:O49	2.35	0.59
40:1a:412:PL9:H472	9:1d:39:PHE:CD2	2.36	0.59
7:1B:73:ASN:HB3	7:1B:85:VAL:HG11	1.85	0.59
7:1B:269:GLY:O	7:1B:448:ARG:NH1	2.36	0.59
6:1a:27:ARG:NH2	22:1t:21:ILE:O	2.36	0.59
7:1b:39:LEU:HD13	33:1b:625:LHG:H272	1.84	0.59
1:01:148:LEU:HG	30:01:305:CHL:HBB1	1.83	0.59
1:01:196:VAL:HG21	29:01:312:CLA:HBC3	1.83	0.59
29:1N:314:CLA:HMB2	29:1N:315:CLA:HHD	1.83	0.59
35:1b:620:BCR:H323	33:1b:624:LHG:H252	1.84	0.59
19:1p:85:ASP:HA	19:1p:88:LEU:HD23	1.85	0.59
30:03:303:CHL:HMB1	30:03:311:CHL:HMC	1.84	0.59
3:08:10:ILE:HG23	3:08:11:PRO:HD3	1.85	0.59
1:09:164:LEU:HD12	31:09:313:LUT:H222	1.85	0.59
7:1B:109:LEU:HA	7:1B:112:ILE:HD12	1.84	0.59
18:1O:78:LEU:HA	18:1O:116:VAL:HG12	1.85	0.59
21:1S:83:ARG:NH1	30:1S:309:CHL:OBD	2.35	0.59
19:1P:139:ASP:OD1	19:1P:139:ASP:N	2.35	0.59
8:1c:120:ILE:HG21	35:1k:102:BCR:H10C	1.83	0.59
6:1A:218:LEU:HB3	6:1A:251:ALA:HB1	1.84	0.59
13:1I:14:PHE:CZ	13:1I:18:LEU:HD11	2.37	0.59
9:1d:22:TRP:O	9:1d:27:ARG:NH2	2.36	0.59
35:1h:101:BCR:HC8	35:1h:101:BCR:H321	1.84	0.59
21:1s:194:ARG:HA	21:1s:197:MET:HE3	1.84	0.59
3:04:93:SER:OG	3:04:94:PHE:N	2.36	0.58
2:07:82:MET:HG2	31:07:313:LUT:H34	1.83	0.58
6:1A:64:ARG:NH1	18:1O:113:ALA:O	2.36	0.58
6:1A:222:SER:HB2	6:1A:246:TYR:HB2	1.85	0.58
7:1B:15:ASP:OD2	16:1L:5:ASN:ND2	2.36	0.58
29:1B:602:CLA:HBC3	29:1B:608:CLA:H52	1.85	0.58
13:1I:17:SER:HA	13:1I:20:ILE:HD12	1.84	0.58
13:1I:20:ILE:HG23	35:1I:102:BCR:H332	1.84	0.58
8:1c:42:LEU:HD22	8:1c:48:LYS:HB3	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:03:103:LYS:NZ	2:03:118:GLY:O	2.33	0.58
3:08:46:PHE:O	3:08:49:TRP:N	2.36	0.58
29:1a:406:CLA:HAB	29:1d:406:CLA:H71	1.85	0.58
34:1b:627:DGD:HAN1	9:1d:155:VAL:HG21	1.83	0.58
8:1c:342:MET:HE2	8:1c:352:GLY:HA2	1.83	0.58
10:1e:20:TRP:HH2	40:1e:101:PL9:H13	1.67	0.58
30:01:306:CHL:HAA1	2:03:57:THR:HG21	1.85	0.58
41:1C:521:SQD:H291	15:1K:42:VAL:HG21	1.86	0.58
9:1D:173:SER:HB2	9:1D:178:ALA:HB1	1.86	0.58
8:1C:28:GLN:OE1	9:1D:234:ARG:NH1	2.36	0.58
1:1G:189:PHE:HZ	33:1G:618:LHG:H152	1.68	0.58
7:1b:220:ARG:HG3	12:1h:32:LYS:HG2	1.85	0.58
7:1b:385:ARG:NH1	18:1o:164:GLY:O	2.36	0.58
3:08:112:ARG:NH2	30:08:304:CHL:O1D	2.35	0.58
20:1R:210:LEU:HD11	46:1R:316:XAT:H12	1.85	0.58
6:1a:27:ARG:NH2	9:1d:259:GLY:O	2.35	0.58
40:1e:101:PL9:H102	45:1f:101:HEM:HMD3	1.86	0.58
1:1n:65:GLU:O	1:1n:69:SER:OG	2.20	0.58
29:1s:316:CLA:HBB2	33:1s:319:LHG:H121	1.86	0.58
1:01:133:VAL:HG21	33:01:316:LHG:H172	1.85	0.58
30:01:306:CHL:H121	29:01:308:CLA:H122	1.84	0.58
6:1A:297:LEU:HD23	34:1C:517:DGD:HBF1	1.86	0.58
7:1B:387:GLU:HB2	19:1P:89:GLY:HA3	1.85	0.58
1:1G:135:MET:HA	1:1G:138:VAL:HG22	1.84	0.58
7:1b:478:VAL:HG23	9:1d:140:ARG:HG3	1.84	0.58
6:1A:165:GLN:NE2	6:1A:344:ALA:OXT	2.36	0.58
9:1D:92:LEU:HD23	29:1D:405:CLA:HBD	1.85	0.58
9:1D:128:LEU:HD22	41:1D:412:SQD:H291	1.85	0.58
1:1g:24:TYR:HA	30:1g:601:CHL:C1D	2.33	0.58
40:1A:410:PL9:H221	40:1E:102:PL9:H531	1.85	0.58
7:1B:10:THR:HG21	29:1B:609:CLA:HED3	1.85	0.58
13:1I:9:TYR:O	13:1I:10:THR:C	2.47	0.58
13:1I:15:PHE:HA	13:1I:18:LEU:HD12	1.86	0.58
15:1K:47:PHE:HA	15:1K:50:LEU:HG	1.86	0.58
29:1R:302:CLA:H62	29:1R:311:CLA:H3A	1.86	0.58
9:1d:158:PHE:CE2	9:1d:172:PRO:HB2	2.39	0.58
1:00:203:LYS:HB3	1:00:207:GLU:CG	2.33	0.58
1:01:18:GLY:O	1:01:21:ARG:NH1	2.37	0.58
7:1b:263:THR:OG1	7:1b:448:ARG:NH2	2.37	0.58
33:1c:521:LHG:HC91	33:1w:104:LHG:HC92	1.85	0.58
35:1b:618:BCR:H12C	41:1b:621:SQD:H221	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:04:44:PRO:HA	3:04:47:LEU:HB2	1.86	0.57
1:05:204:GLY:O	1:05:208:ASN:ND2	2.36	0.57
2:07:197:LEU:HD12	29:07:307:CLA:HHD	1.84	0.57
1:1N:170:PRO:HD2	1:1N:171:GLU:H	1.68	0.57
9:1d:128:LEU:HD22	41:1d:405:SQD:H301	1.86	0.57
7:1B:247:PHE:HB2	29:1B:606:CLA:HBC1	1.85	0.57
7:1B:464:PHE:HD2	29:1B:609:CLA:HAC2	1.68	0.57
8:1C:188:THR:HG22	8:1C:364:PRO:HG2	1.86	0.57
8:1C:262:ARG:NH1	25:1W:37:TYR:OH	2.35	0.57
8:1C:279:LEU:HD12	29:1C:508:CLA:HED2	1.85	0.57
33:1N:318:LHG:HC41	33:1N:318:LHG:HC11	1.86	0.57
20:1R:25:ASP:OD1	20:1R:25:ASP:N	2.36	0.57
7:1b:327:ALA:O	7:1b:444:ARG:NH1	2.37	0.57
9:1d:192:TRP:CE2	9:1d:198:HIS:HB2	2.40	0.57
6:1A:106:LEU:HD11	35:1A:409:BCR:H402	1.86	0.57
33:1I:103:LHG:HC82	25:1W:21:LEU:HD21	1.86	0.57
6:1a:290:ILE:HG21	29:1a:405:CLA:HED3	1.86	0.57
31:00:313:LUT:H193	34:00:320:DGD:HBE1	1.87	0.57
1:09:33:PRO:HG2	1:09:36:LEU:HB2	1.86	0.57
6:1A:67:VAL:HG22	9:1D:313:GLU:HG2	1.86	0.57
29:1B:601:CLA:H171	34:1B:625:DGD:HBT1	1.87	0.57
29:01:301:CLA:HAB	31:01:315:LUT:H32	1.85	0.57
33:1C:520:LHG:H292	33:1C:520:LHG:H131	1.87	0.57
10:1E:28:PRO:HG3	40:1E:102:PL9:H301	1.86	0.57
10:1E:45:ASP:OD2	27:1Y:4:ARG:NH2	2.38	0.57
6:1a:219:VAL:HG13	6:1a:246:TYR:CD2	2.40	0.57
20:1r:92:PHE:HB3	29:1r:302:CLA:HHB	1.85	0.57
29:1c:509:CLA:H142	35:1i:101:BCR:H362	1.87	0.57
12:1h:35:PRO:HG3	20:1r:44:GLU:HG2	1.87	0.57
1:00:87:ARG:HB3	33:00:321:LHG:HC61	1.85	0.57
29:01:301:CLA:HBB2	31:01:315:LUT:H15	1.87	0.57
29:08:310:CLA:HHC	29:08:310:CLA:HBB1	1.87	0.57
1:09:142:ARG:NH1	30:09:308:CHL:O1D	2.38	0.57
17:1M:15:ILE:O	17:1M:19:THR:OG1	2.20	0.57
40:1R:301:PL9:H151	40:1R:301:PL9:H212	1.86	0.57
29:00:302:CLA:HHC	29:00:302:CLA:HBB1	1.87	0.57
30:00:308:CHL:HBB1	30:1G:601:CHL:H61	1.87	0.57
1:01:21:ARG:NH1	1:01:43:ASP:O	2.38	0.57
7:1B:349:LYS:HD3	7:1B:396:GLY:HA3	1.87	0.57
10:1E:36:LEU:O	10:1E:40:THR:OG1	2.21	0.57
1:1G:167:ALA:HB2	29:1G:610:CLA:HAA1	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1O:135:ALA:HA	18:1O:143:GLY:O	2.05	0.57
2:03:190:LYS:NZ	29:03:312:CLA:O2D	2.37	0.56
1:06:68:HIS:HE1	29:06:602:CLA:C1C	2.18	0.56
3:08:191:MET:N	3:08:191:MET:SD	2.78	0.56
6:1A:174:LEU:HB3	38:1A:405:PHO:H151	1.86	0.56
6:1A:225:ARG:HG3	7:1B:481:GLY:HA3	1.87	0.56
40:1e:101:PL9:H111	45:1f:101:HEM:CBC	2.35	0.56
1:00:33:PRO:HG2	1:00:36:LEU:HB2	1.87	0.56
7:1B:138:ILE:HA	7:1B:141:ILE:HD12	1.87	0.56
1:00:97:TRP:CH2	1:00:198:ALA:HB2	2.40	0.56
29:00:309:CLA:HBB1	31:00:313:LUT:H32	1.87	0.56
29:1D:401:CLA:HHC	29:1D:401:CLA:HBB1	1.86	0.56
25:1W:36:LEU:HA	25:1W:39:ILE:HD12	1.88	0.56
7:1b:471:ALA:HB1	9:1d:141:PRO:HG2	1.87	0.56
29:1b:609:CLA:H51	41:1d:405:SQD:H341	1.86	0.56
8:1c:67:MET:HG2	15:1k:41:PRO:HB3	1.88	0.56
8:1c:269:GLU:OE2	8:1c:444:HIS:ND1	2.38	0.56
8:1c:318:LEU:HG	8:1c:328:VAL:HG21	1.87	0.56
33:1w:103:LHG:H271	33:1w:103:LHG:H152	1.86	0.56
33:01:316:LHG:HC61	33:01:316:LHG:H101	1.86	0.56
1:06:186:LEU:HD11	29:06:609:CLA:HHD	1.86	0.56
38:1A:405:PHO:H202	40:1D:407:PL9:H453	1.86	0.56
41:1B:620:SQD:H332	41:1B:620:SQD:H121	1.87	0.56
17:1M:3:VAL:HG23	17:1M:5:ILE:H	1.70	0.56
20:1R:165:GLU:HB3	20:1R:171:ARG:HG2	1.87	0.56
7:1b:39:LEU:HD22	33:1b:625:LHG:H251	1.88	0.56
29:1b:608:CLA:H91	41:1b:621:SQD:H371	1.88	0.56
9:1d:52:GLY:HA3	9:1d:79:VAL:HG12	1.86	0.56
9:1d:234:ARG:NH2	24:1v:22:SER:OG	2.38	0.56
33:01:316:LHG:HC82	33:1R:318:LHG:HC31	1.87	0.56
8:1C:397:THR:HG22	19:1P:170:LYS:HE3	1.86	0.56
1:1G:192:PHE:CE2	31:1G:616:LUT:H35	2.41	0.56
18:1o:157:LEU:HD21	18:1o:166:THR:HB	1.88	0.56
7:1B:251:VAL:HA	34:1B:625:DGD:HB61	1.86	0.56
1:1N:15:PRO:HG2	1:1N:16:TRP:CD1	2.41	0.56
6:1a:316:THR:HG23	9:1d:65:ALA:HB3	1.88	0.56
9:1d:193:THR:HG23	29:1d:406:CLA:HBC2	1.88	0.56
21:1s:108:GLU:HG2	21:1s:113:LYS:HG2	1.87	0.56
1:00:135:MET:HE3	30:00:305:CHL:HMA1	1.87	0.56
1:00:179:LYS:NZ	29:00:311:CLA:O2D	2.38	0.56
1:06:126:ALA:HB1	30:06:603:CHL:HMC	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:09:189:PHE:CE1	29:09:317:CLA:H71	2.40	0.56
1:1G:182:LYS:NZ	29:1G:614:CLA:O1D	2.39	0.56
7:1b:41:GLU:HA	7:1b:44:VAL:HG22	1.86	0.56
8:1c:213:LEU:O	8:1c:223:TRP:NE1	2.35	0.56
8:1c:370:ARG:O	8:1c:379:ARG:NH2	2.39	0.56
9:1d:189:PHE:HZ	9:1d:331:ALA:HB2	1.70	0.56
2:03:207:VAL:HG21	29:03:308:CLA:HAC2	1.87	0.56
41:1A:411:SQD:O9	9:1D:231:ASN:ND2	2.36	0.56
7:1B:452:THR:HB	9:1D:292:LEU:HD21	1.88	0.56
14:1J:26:GLY:HA3	33:1J:102:LHG:H152	1.87	0.56
9:1d:190:HIS:HA	9:1d:295:ARG:HD2	1.88	0.56
1:00:64:LEU:HD11	1:1G:49:ALA:HA	1.88	0.56
1:00:203:LYS:HB3	1:00:207:GLU:HG2	1.88	0.56
2:03:72:ALA:HA	2:03:165:LEU:HD11	1.88	0.56
1:09:185:ARG:HA	1:09:188:MET:HE3	1.87	0.56
6:1A:78:ILE:HD13	6:1A:176:ILE:HD13	1.88	0.56
6:1A:317:TRP:HE1	9:1D:178:ALA:HB2	1.71	0.56
6:1A:328:MET:HE2	9:1D:326:ILE:HG12	1.88	0.56
31:1g:616:LUT:H8	31:1g:616:LUT:H171	1.88	0.56
1:01:145:GLY:HA2	30:01:305:CHL:HMC	1.87	0.56
1:17:215:ASP:O	1:17:216:PRO:C	2.48	0.56
41:1A:411:SQD:H441	33:1C:527:LHG:HC81	1.88	0.56
10:1E:69:ARG:NH2	12:1H:62:ASN:O	2.37	0.56
40:1E:102:PL9:H171	45:1E:103:HEM:HBC1	1.88	0.56
35:1J:101:BCR:H15C	15:1K:50:LEU:HD21	1.87	0.56
41:1L:102:SQD:H182	41:1L:102:SQD:H342	1.88	0.56
18:1O:129:THR:HG21	18:1O:149:PRO:HD3	1.88	0.56
2:03:208:GLN:O	2:03:212:THR:OG1	2.24	0.55
29:03:308:CLA:HMB2	29:03:309:CLA:HHD	1.89	0.55
1:11:215:ASP:C	1:11:217:VAL:H	2.14	0.55
6:1a:64:ARG:NH1	18:1o:113:ALA:O	2.39	0.55
29:1b:616:CLA:H92	29:1b:617:CLA:HBB1	1.89	0.55
9:1d:160:ILE:HG21	9:1d:288:VAL:HG22	1.87	0.55
16:1l:9:GLN:NE2	20:1r:56:ASN:OD1	2.39	0.55
1:01:97:TRP:NE1	1:01:100:ALA:HB2	2.21	0.55
41:1c:517:SQD:H82	15:1k:38:ASP:HB3	1.87	0.55
33:1d:402:LHG:HC92	40:1d:410:PL9:H111	1.87	0.55
18:1o:166:THR:OG1	19:1p:137:ASP:OD1	2.23	0.55
19:1p:163:ALA:HB2	19:1p:176:VAL:HG21	1.88	0.55
1:02:203:LYS:HE2	1:02:204:GLY:H	1.72	0.55
6:1A:94:TYR:HE2	6:1A:105:TRP:HA	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1B:610:CLA:H18	29:1B:611:CLA:HBB2	1.88	0.55
29:1c:508:CLA:HBB2	29:1c:509:CLA:H52	1.88	0.55
1:00:191:MET:O	1:00:192:PHE:C	2.50	0.55
1:05:13:GLY:N	1:05:20:ASP:OD2	2.39	0.55
32:09:315:VIV:H193	33:1n:617:LHG:H272	1.88	0.55
29:09:317:CLA:H43	33:09:318:LHG:H341	1.89	0.55
8:1C:360:ASP:O	34:1C:516:DGD:O2E	2.24	0.55
10:1e:20:TRP:CH2	40:1e:101:PL9:H13	2.40	0.55
19:1p:34:TRP:HB3	19:1p:49:TYR:HB3	1.88	0.55
30:00:305:CHL:HMC	31:00:314:LUT:H163	1.89	0.55
3:08:34:GLY:N	29:08:311:CLA:OBD	2.40	0.55
1:09:209:LEU:HD22	31:09:313:LUT:H172	1.88	0.55
40:1D:407:PL9:H43	33:1D:409:LHG:H222	1.89	0.55
20:1R:94:GLU:OE1	20:1R:171:ARG:NH1	2.39	0.55
6:1a:27:ARG:O	8:1c:473:ASN:ND2	2.39	0.55
21:1s:165:HIS:HB3	29:1s:312:CLA:HED2	1.89	0.55
21:1s:171:ASP:HA	31:1s:317:LUT:H24	1.88	0.55
21:1s:200:MET:HE1	31:1s:318:LUT:H14	1.88	0.55
3:08:50:TYR:HB3	29:08:311:CLA:H3A	1.89	0.55
34:1B:626:DGD:O5D	34:1B:626:DGD:O4D	2.21	0.55
8:1C:227:VAL:HG11	35:1I:102:BCR:H291	1.88	0.55
9:1D:162:PRO:HB3	9:1D:171:ALA:HB2	1.87	0.55
1:00:64:LEU:HD22	29:00:302:CLA:HAA2	1.89	0.55
1:09:190:SER:CA	29:09:317:CLA:HBB1	2.32	0.55
6:1A:194:MET:O	6:1A:300:PHE:N	2.39	0.55
7:1B:332:ASN:HD21	42:1B:623:MGE:H4D	1.70	0.55
29:1C:506:CLA:C1B	29:1C:513:CLA:HMB2	2.28	0.55
1:1G:192:PHE:HE2	31:1G:616:LUT:H35	1.70	0.55
18:1O:227:ASP:HB3	18:1O:230:ALA:HB3	1.87	0.55
8:1c:91:HIS:O	8:1c:94:THR:OG1	2.24	0.55
19:1p:113:ILE:HA	19:1p:131:VAL:HG12	1.88	0.55
1:02:188:MET:HE3	1:02:192:PHE:HD2	1.72	0.55
6:1a:281:VAL:HA	6:1a:284:TRP:CD1	2.42	0.55
9:1d:108:LEU:HD23	10:1e:66:ILE:HD13	1.89	0.55
9:1d:181:ARG:HD2	9:1d:330:MET:HE2	1.88	0.55
1:1g:110:LEU:HD21	29:1g:604:CLA:HAA2	1.89	0.55
1:01:182:LYS:HZ3	29:01:310:CLA:C1D	1.96	0.55
29:1B:607:CLA:H42	42:1B:624:MGE:H6B1	1.88	0.55
41:1B:622:SQD:H182	6:1a:49:ILE:HG21	1.89	0.55
29:1b:604:CLA:H143	29:1b:609:CLA:HAC1	1.88	0.55
15:1k:44:PRO:O	15:1k:47:PHE:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1R:93:ARG:NH2	20:1R:96:GLU:OE1	2.39	0.55
28:1Z:54:VAL:O	28:1Z:58:ASN:ND2	2.40	0.55
35:1c:516:BCR:H311	28:1z:13:ILE:HD11	1.88	0.55
2:07:222:ASP:HB3	2:07:230:ASN:HD22	1.71	0.54
9:1D:47:GLY:O	9:1D:51:THR:OG1	2.24	0.54
16:1L:9:GLN:NE2	20:1R:56:ASN:OD1	2.40	0.54
17:1M:31:SER:OG	17:1m:31:SER:OG	2.25	0.54
7:1b:469:HIS:O	7:1b:473:THR:OG1	2.21	0.54
29:1c:504:CLA:H61	29:1c:514:CLA:H42	1.89	0.54
1:1g:46:TRP:HZ3	29:1g:602:CLA:HBC2	1.73	0.54
46:1g:619:XAT:H171	30:1n:601:CHL:HBB1	1.89	0.54
1:00:97:TRP:HH2	1:00:198:ALA:HB2	1.72	0.54
1:00:209:LEU:HG	31:00:313:LUT:H22	1.89	0.54
29:05:311:CLA:HHC	29:05:311:CLA:HBB1	1.89	0.54
1:09:162:ASP:HA	31:09:313:LUT:H24	1.89	0.54
45:1E:103:HEM:HAC	11:1F:21:ALA:HB1	1.88	0.54
9:1d:197:PHE:HA	9:1d:200:MET:HE3	1.88	0.54
1:09:191:MET:O	1:09:194:PHE:HB2	2.07	0.54
1:17:216:PRO:O	1:17:217:VAL:C	2.49	0.54
40:1E:102:PL9:H271	33:1P:201:LHG:H372	1.88	0.54
33:1N:318:LHG:H111	33:1S:303:LHG:H252	1.88	0.54
7:1b:454:GLY:HA2	41:1b:621:SQD:H331	1.88	0.54
8:1c:164:HIS:ND1	29:1c:509:CLA:OBD	2.41	0.54
1:1g:135:MET:HA	1:1g:138:VAL:HG22	1.89	0.54
1:01:134:LEU:HD21	30:01:303:CHL:HED3	1.90	0.54
7:1B:18:ARG:HH22	41:1B:620:SQD:H62	1.72	0.54
7:1B:399:VAL:HG23	7:1B:417:VAL:HG22	1.89	0.54
21:1S:218:LEU:HD22	31:1S:317:LUT:H172	1.89	0.54
33:1a:413:LHG:HC81	33:1a:413:LHG:H252	1.89	0.54
8:1c:61:VAL:HG13	8:1c:118:HIS:HD2	1.72	0.54
41:1c:517:SQD:H311	41:1c:517:SQD:H211	1.89	0.54
30:1g:607:CHL:C1A	46:1g:619:XAT:H222	2.37	0.54
19:1p:51:ASP:N	19:1p:51:ASP:OD1	2.37	0.54
1:01:192:PHE:HD1	31:01:315:LUT:H14	1.72	0.54
13:1I:2:LEU:HD13	13:1I:6:LEU:HD11	1.89	0.54
21:1S:154:ILE:HG23	21:1S:155:ILE:HG13	1.90	0.54
9:1D:52:GLY:HA3	9:1D:79:VAL:HG22	1.89	0.54
9:1D:198:HIS:HE1	29:1D:404:CLA:NC	2.04	0.54
33:1I:103:LHG:H271	33:1I:103:LHG:H112	1.90	0.54
21:1S:200:MET:HE2	31:1S:318:LUT:H12	1.89	0.54
6:1a:218:LEU:O	6:1a:222:SER:OG	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1c:56:HIS:HE1	29:1c:512:CLA:NB	2.00	0.54
1:1n:156:TYR:HB3	29:1n:610:CLA:HED3	1.90	0.54
1:00:195:PHE:O	1:00:196:VAL:C	2.50	0.54
7:1B:135:LEU:HA	7:1B:138:ILE:HD12	1.89	0.54
8:1C:217:PRO:HD3	42:1C:524:MGE:H5B2	1.89	0.54
19:1P:115:GLU:HG2	19:1P:130:THR:HB	1.90	0.54
8:1c:297:TYR:O	8:1c:423:ARG:NH2	2.39	0.54
1:01:69:SER:HB3	1:01:188:MET:HE2	1.90	0.54
1:06:96:VAL:HG12	1:06:98:PHE:H	1.73	0.54
6:1A:343:LEU:O	8:1C:310:SER:OG	2.21	0.54
33:1I:103:LHG:H251	33:1I:103:LHG:HC91	1.88	0.54
21:1S:165:HIS:HB3	29:1S:310:CLA:HED2	1.90	0.54
9:1d:50:PHE:O	9:1d:54:THR:OG1	2.23	0.54
10:1e:23:HIS:HA	10:1e:26:THR:HB	1.89	0.54
10:1E:20:TRP:O	10:1E:24:SER:OG	2.20	0.54
13:1I:13:ILE:HB	25:1W:29:VAL:HG21	1.90	0.54
41:1c:517:SQD:H261	33:1j:102:LHG:HC92	1.90	0.54
9:1d:127:MET:HE2	9:1d:151:ILE:HD12	1.89	0.54
1:1g:176:LEU:HD13	29:1g:610:CLA:H3A	1.90	0.54
21:1s:84:TRP:HB3	31:1s:318:LUT:H11	1.90	0.54
21:1s:166:PRO:HB3	30:1s:310:CHL:HBC2	1.89	0.54
1:1N:197:GLN:O	1:1N:201:THR:OG1	2.17	0.54
6:1a:201:GLY:HA3	6:1a:286:THR:HB	1.90	0.54
9:1d:154:PHE:O	9:1d:158:PHE:HB2	2.08	0.54
1:05:29:SER:OG	1:05:30:GLY:N	2.40	0.53
29:07:307:CLA:H3A	3:08:131:SER:HA	1.90	0.53
6:1A:303:ASN:HD22	8:1C:414:ILE:HA	1.71	0.53
7:1b:283:GLU:OE1	7:1b:286:ARG:NH2	2.34	0.53
9:1d:56:VAL:HG21	9:1d:111:LEU:HD22	1.89	0.53
7:1B:142:HIS:ND1	29:1B:608:CLA:OBD	2.30	0.53
7:1B:371:VAL:HG12	7:1B:377:VAL:HG22	1.90	0.53
21:1S:200:MET:HE2	31:1S:318:LUT:H10	1.90	0.53
6:1a:340:PRO:HG2	9:1d:353:LEU:HB2	1.90	0.53
7:1b:474:LEU:HD13	41:1d:405:SQD:H251	1.91	0.53
1:1g:193:GLY:O	1:1g:197:GLN:HB2	2.08	0.53
1:00:89:GLY:O	33:00:317:LHG:O1	2.26	0.53
6:1A:241:GLN:HG3	6:1A:243:GLU:H	1.73	0.53
34:1B:625:DGD:O1G	12:1H:62:ASN:ND2	2.41	0.53
13:1I:14:PHE:O	13:1I:18:LEU:HG	2.09	0.53
7:1b:482:ILE:HG12	9:1d:140:ARG:HH21	1.74	0.53
8:1c:444:HIS:HE1	29:1c:510:CLA:NA	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1d:186:PHE:HE2	9:1d:290:LEU:HD13	1.74	0.53
9:1d:308:GLU:OE1	17:1m:1:MET:N	2.40	0.53
16:1l:9:GLN:OE1	20:1r:55:GLN:NE2	2.41	0.53
21:1s:155:ILE:HG22	21:1s:156:ASN:HB2	1.90	0.53
1:01:99:LYS:HE2	1:01:195:PHE:HE1	1.74	0.53
2:03:67:PHE:O	2:03:71:ARG:HB2	2.07	0.53
2:07:207:VAL:HG21	29:07:308:CLA:HAC2	1.90	0.53
7:1B:54:PRO:HD2	7:1B:57:ARG:HG3	1.90	0.53
8:1C:342:MET:HE3	8:1C:350:ILE:HD11	1.91	0.53
6:1a:85:THR:HA	6:1a:109:GLY:HA3	1.90	0.53
6:1a:145:VAL:O	6:1a:148:SER:OG	2.26	0.53
11:1f:28:LEU:HD22	14:1j:24:LEU:HD21	1.91	0.53
18:1o:148:VAL:HG11	18:1o:223:PRO:HD2	1.91	0.53
6:1A:267:ASN:ND2	9:1D:233:PHE:O	2.34	0.53
8:1C:406:SER:O	8:1C:418:ASN:ND2	2.37	0.53
9:1D:86:LEU:HD13	9:1D:91:LEU:HD11	1.90	0.53
13:1I:25:SER:O	13:1I:30:ARG:NH2	2.41	0.53
7:1b:26:HIS:O	7:1b:30:VAL:HG23	2.09	0.53
10:1e:12:ASP:O	14:1j:7:ARG:NH2	2.42	0.53
10:1e:14:ILE:HD11	40:1e:101:PL9:H103	1.90	0.53
46:1g:619:XAT:H27	30:1n:601:CHL:H141	1.91	0.53
18:1o:60:VAL:HG23	18:1o:76:THR:HG21	1.91	0.53
21:1s:29:PRO:HA	21:1s:42:ARG:HH21	1.72	0.53
1:00:124:ILE:HD11	30:00:306:CHL:HAC2	1.91	0.53
1:01:101:GLY:C	1:01:103:GLN:N	2.67	0.53
6:1A:11:THR:OG1	6:1A:12:SER:N	2.41	0.53
6:1A:140:ARG:NH1	33:1D:410:LHG:O5	2.37	0.53
41:1B:620:SQD:H291	41:1m:101:SQD:H101	1.91	0.53
8:1C:134:LEU:HD22	28:1Z:28:ALA:HA	1.90	0.53
41:1C:521:SQD:H302	33:1J:102:LHG:H171	1.91	0.53
11:1F:35:GLN:HB3	14:1J:31:GLY:HA3	1.90	0.53
29:1b:608:CLA:HBC3	35:1b:619:BCR:HC8	1.91	0.53
1:01:182:LYS:NZ	29:01:310:CLA:C4D	2.68	0.53
6:1A:104:GLU:OE2	25:1W:5:ARG:NH2	2.42	0.53
7:1B:255:THR:HG21	29:1B:601:CLA:HED1	1.91	0.53
1:1G:209:LEU:HB2	31:1G:615:LUT:H22	1.91	0.53
10:1e:27:ILE:HD11	45:1f:101:HEM:HBC2	1.90	0.53
15:1k:52:PHE:O	15:1k:56:ALA:N	2.41	0.53
1:00:193:GLY:O	1:00:194:PHE:C	2.52	0.53
1:05:212:HIS:HE1	29:05:312:CLA:C4D	2.21	0.53
6:1A:281:VAL:HA	6:1A:284:TRP:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1B:24:ILE:HG12	29:1B:613:CLA:HED2	1.90	0.53
8:1C:168:LEU:HD11	29:1C:508:CLA:H61	1.91	0.53
10:1E:22:ILE:HG12	27:1Y:19:VAL:HG12	1.91	0.53
29:1G:602:CLA:HBA1	31:1G:616:LUT:H382	1.90	0.53
21:1S:135:LEU:HD21	30:1S:307:CHL:HBC3	1.90	0.53
6:1a:223:LEU:HB2	9:1d:140:ARG:HH22	1.74	0.53
1:1n:54:ASP:HB3	1:1n:57:THR:HG22	1.90	0.53
2:03:190:LYS:NZ	29:03:312:CLA:O1A	2.42	0.53
1:05:110:LEU:HD13	30:05:304:CHL:HAC1	1.91	0.53
34:1A:414:DGD:O3D	18:1O:77:LYS:NZ	2.42	0.53
32:00:315:VIV:H112	8:1C:204:LEU:HD22	1.90	0.52
1:06:24:TYR:O	1:06:29:SER:OG	2.27	0.52
30:1G:601:CHL:H192	46:1G:617:XAT:H222	1.90	0.52
6:1a:167:SER:HB2	8:1c:357:ARG:HB3	1.90	0.52
30:1r:305:CHL:HBB2	30:1r:306:CHL:HBB1	1.91	0.52
3:04:186:LEU:HD21	29:04:310:CLA:HMD3	1.91	0.52
6:1A:170:ASP:OD1	8:1C:357:ARG:NH1	2.41	0.52
1:1N:99:LYS:HA	30:1N:308:CHL:HED3	1.90	0.52
18:1O:56:THR:N	18:1O:239:GLN:O	2.24	0.52
7:1b:479:PHE:O	33:1d:401:LHG:O1	2.26	0.52
1:01:98:PHE:CE2	1:01:99:LYS:HG2	2.45	0.52
7:1B:35:GLY:HA3	7:1B:101:ILE:HG12	1.92	0.52
7:1B:321:LYS:NZ	7:1B:363:PHE:O	2.42	0.52
1:1G:162:ASP:HA	31:1G:615:LUT:H24	1.91	0.52
6:1a:227:THR:OG1	6:1a:228:THR:N	2.41	0.52
40:1a:412:PL9:H43	11:1f:16:ALA:HA	1.91	0.52
9:1d:123:LEU:HD13	9:1d:151:ILE:HG12	1.91	0.52
9:1d:150:PRO:HB3	29:1d:406:CLA:H41	1.92	0.52
9:1d:240:GLN:HA	24:1v:56:TYR:CE2	2.44	0.52
12:1h:25:PRO:HB2	20:1r:81:GLN:HB2	1.91	0.52
1:1n:70:ARG:HH12	29:1n:610:CLA:C4D	2.21	0.52
20:1r:93:ARG:NH2	29:1r:302:CLA:O1D	2.41	0.52
29:00:301:CLA:H62	29:00:302:CLA:H3A	1.92	0.52
3:04:109:GLU:HB3	30:04:304:CHL:HMA3	1.91	0.52
3:08:95:GLY:HA2	3:08:98:LEU:HB2	1.92	0.52
41:1A:411:SQD:H122	33:1C:527:LHG:H172	1.91	0.52
8:1C:279:LEU:HD23	8:1C:282:PHE:HD2	1.73	0.52
9:1D:54:THR:HG22	11:1F:34:MET:HE1	1.91	0.52
6:1a:104:GLU:OE1	6:1a:108:ASN:ND2	2.43	0.52
7:1b:113:TRP:HB2	35:1b:620:BCR:H21C	1.91	0.52
35:1b:618:BCR:HC32	41:1b:621:SQD:H142	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1c:452:ALA:O	13:1i:34:ARG:NH1	2.43	0.52
1:1n:145:GLY:HA2	30:1n:608:CHL:HAC1	1.90	0.52
34:00:320:DGD:HA92	33:1W:102:LHG:H192	1.91	0.52
1:05:99:LYS:HA	30:05:305:CHL:HED2	1.90	0.52
30:09:305:CHL:HMC	30:09:306:CHL:C4C	2.40	0.52
30:1N:302:CHL:HMA3	33:1N:317:LHG:H111	1.92	0.52
20:1R:108:LEU:HB3	29:1R:312:CLA:HBC2	1.90	0.52
6:1a:35:VAL:HG11	13:1i:18:LEU:HB3	1.92	0.52
6:1a:219:VAL:HG13	6:1a:246:TYR:HD2	1.73	0.52
31:1g:616:LUT:H401	31:1g:616:LUT:H15	1.92	0.52
8:1C:170:ILE:HG12	33:1C:523:LHG:H181	1.91	0.52
8:1C:284:PHE:HB3	34:1C:516:DGD:HB61	1.92	0.52
8:1C:307:PRO:HB2	8:1C:361:LEU:HD13	1.92	0.52
29:1C:509:CLA:H201	15:1K:45:VAL:HG22	1.91	0.52
9:1D:55:PHE:O	10:1E:49:SER:OG	2.20	0.52
20:1r:100:GLY:HA3	20:1r:202:ALA:HB1	1.91	0.52
1:00:191:MET:HE2	31:00:314:LUT:H10	1.92	0.52
1:00:192:PHE:CE1	30:00:308:CHL:H203	2.45	0.52
30:04:302:CHL:HBB2	30:04:304:CHL:HBC1	1.92	0.52
1:1N:60:LYS:HA	1:1N:63:GLU:HG2	1.91	0.52
20:1R:170:LYS:HG2	20:1R:174:PRO:HA	1.91	0.52
6:1a:216:GLY:H	6:1a:219:VAL:HG23	1.74	0.52
9:1d:187:GLN:NE2	9:1d:323:ASN:OD1	2.41	0.52
1:01:173:PHE:O	1:01:176:LEU:HB3	2.10	0.52
3:04:58:GLY:O	3:04:62:MET:HG3	2.09	0.52
3:04:101:GLN:HA	3:04:104:LEU:HB2	1.92	0.52
1:09:197:GLN:HG2	29:09:317:CLA:C1D	2.40	0.52
7:1B:53:ASP:O	7:1B:58:GLN:NE2	2.43	0.52
20:1R:201:HIS:HB3	31:1R:315:LUT:H15	1.92	0.52
29:1R:314:CLA:HHC	29:1R:314:CLA:HBB1	1.92	0.52
6:1a:181:ASN:ND2	37:1a:404:CL:CL	2.74	0.52
40:1a:412:PL9:H512	9:1d:31:VAL:HG11	1.91	0.52
30:1n:601:CHL:H43	30:1n:601:CHL:HMA2	1.92	0.52
21:1s:41:ASP:N	21:1s:41:ASP:OD1	2.43	0.52
1:06:200:VAL:HG22	1:06:227:ASN:HD21	1.74	0.52
29:09:312:CLA:HBB2	33:1c:522:LHG:H241	1.91	0.52
1:1N:135:MET:HE3	30:1N:307:CHL:HMB3	1.91	0.52
21:1S:135:LEU:HD13	30:1S:308:CHL:HAC2	1.92	0.52
7:1b:381:VAL:HG22	7:1b:418:LYS:HG2	1.91	0.52
13:1i:31:ASN:ND2	13:1i:33:GLY:O	2.43	0.52
20:1r:113:VAL:O	20:1r:117:THR:OG1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:09:192:PHE:CD2	29:09:317:CLA:HMC1	2.44	0.52
7:1B:122:ILE:HA	12:1H:24:LYS:HD3	1.91	0.52
8:1C:282:PHE:HE1	29:1C:501:CLA:H112	1.74	0.52
21:1S:171:ASP:HA	31:1S:317:LUT:H24	1.91	0.52
6:1a:37:MET:HB3	6:1a:125:CYS:HB2	1.92	0.52
29:1n:613:CLA:H12	29:1n:614:CLA:HED2	1.92	0.52
18:1o:94:GLU:HB3	18:1o:102:LYS:HB3	1.92	0.52
1:05:80:VAL:HG11	29:05:310:CLA:HBB2	1.90	0.51
1:05:135:MET:HA	1:05:138:VAL:HG22	1.92	0.51
29:09:317:CLA:H52	33:09:318:LHG:H302	1.92	0.51
7:1B:333:GLY:HA2	7:1B:440:ASP:HB3	1.92	0.51
35:1D:406:BCR:H372	41:1D:411:SQD:H252	1.92	0.51
1:1G:23:LEU:HD11	1:1G:32:PRO:HB3	1.92	0.51
21:1S:32:ARG:NH1	33:1S:319:LHG:O1	2.34	0.51
26:1X:53:ASN:O	26:1X:57:SER:OG	2.26	0.51
7:1b:311:PHE:O	7:1b:317:ASN:ND2	2.44	0.51
7:1b:327:ALA:HB1	41:1b:621:SQD:H461	1.92	0.51
8:1c:447:ARG:HG2	29:1c:510:CLA:HED1	1.92	0.51
3:08:191:MET:HA	3:08:194:PHE:HB2	1.92	0.51
29:1G:612:CLA:H93	33:1G:618:LHG:H282	1.92	0.51
1:1N:24:TYR:HA	30:1N:302:CHL:C1D	2.40	0.51
30:1N:308:CHL:H12	30:1N:308:CHL:HMA2	1.93	0.51
24:1V:31:VAL:HG23	24:1V:32:VAL:HG23	1.91	0.51
33:1a:413:LHG:H281	33:1a:413:LHG:H131	1.92	0.51
10:1e:55:TYR:O	10:1e:60:ARG:NH1	2.43	0.51
35:1j:101:BCR:H373	15:1k:49:LEU:HD22	1.91	0.51
6:1A:141:PRO:O	9:1D:221:ASN:ND2	2.44	0.51
1:1g:139:GLU:OE1	30:1g:609:CHL:NB	2.44	0.51
1:05:135:MET:HE2	30:05:304:CHL:HMA1	1.91	0.51
1:05:200:VAL:HG21	1:05:226:THR:HA	1.92	0.51
6:1A:218:LEU:HD21	6:1A:255:PHE:HB2	1.91	0.51
8:1C:54:VAL:HG13	8:1C:129:GLY:HA2	1.93	0.51
1:1G:131:GLN:O	1:1G:135:MET:HG3	2.10	0.51
16:1L:19:TYR:OH	22:1T:23:PHE:O	2.24	0.51
18:1O:20:VAL:HG13	18:1O:25:THR:HB	1.92	0.51
40:1a:412:PL9:C20	38:1d:404:PHO:HED2	2.40	0.51
7:1b:247:PHE:HB2	29:1b:609:CLA:HBC1	1.92	0.51
10:1e:24:SER:HB2	24:1v:93:LEU:HD22	1.91	0.51
1:1n:70:ARG:HD3	29:1n:610:CLA:C4C	2.41	0.51
20:1r:208:ALA:O	20:1r:211:GLY:N	2.43	0.51
1:00:127:ILE:HG12	30:00:304:CHL:HAC1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:02:52:SER:HB3	1:02:58:PHE:HA	1.92	0.51
1:06:208:ASN:OD1	1:06:212:HIS:ND1	2.44	0.51
2:07:175:LEU:O	31:07:313:LUT:O23	2.29	0.51
29:09:301:CLA:CBB	31:09:314:LUT:H32	2.40	0.51
19:1P:20:ALA:HA	19:1P:29:LEU:HA	1.92	0.51
33:1c:522:LHG:H101	33:1w:103:LHG:H252	1.92	0.51
1:1n:122:GLN:HG2	30:1n:605:CHL:HAB	1.93	0.51
8:1C:181:TYR:HB3	33:1C:525:LHG:HC42	1.92	0.51
8:1C:225:VAL:HG13	8:1C:289:PHE:HA	1.93	0.51
30:1G:601:CHL:H203	46:1G:617:XAT:H362	1.91	0.51
33:1J:102:LHG:H251	33:1J:102:LHG:HC92	1.92	0.51
18:1O:148:VAL:O	18:1O:196:SER:N	2.44	0.51
19:1P:22:SER:OG	19:1P:27:LYS:NZ	2.42	0.51
9:1d:41:CYS:HA	9:1d:118:HIS:HD1	1.75	0.51
1:00:60:LYS:O	1:00:64:LEU:HD12	2.11	0.51
30:00:306:CHL:HAA1	46:1G:617:XAT:H221	1.92	0.51
3:04:120:ASP:OD1	3:04:120:ASP:N	2.42	0.51
6:1A:97:TRP:HB3	13:1I:4:LEU:HD23	1.91	0.51
29:1B:612:CLA:H42	41:1m:101:SQD:H291	1.93	0.51
21:1S:111:TRP:HE1	31:1S:318:LUT:H173	1.75	0.51
7:1b:226:TYR:HA	7:1b:231:MET:HB2	1.92	0.51
29:1b:615:CLA:H42	41:1l:101:SQD:H272	1.92	0.51
9:1d:61:THR:HA	9:1d:83:ALA:HB2	1.93	0.51
9:1d:192:TRP:CD1	9:1d:290:LEU:HD11	2.45	0.51
29:1d:407:CLA:HHC	29:1d:407:CLA:HBB1	1.93	0.51
1:1n:14:SER:HB3	1:1n:17:TYR:HB2	1.92	0.51
19:1p:35:ASN:ND2	19:1p:52:ASN:OD1	2.43	0.51
20:1r:230:HIS:CD2	30:1r:313:CHL:NC	2.78	0.51
21:1s:171:ASP:N	21:1s:171:ASP:OD1	2.44	0.51
7:1B:161:LEU:HG	34:1B:627:DGD:HG32	1.93	0.51
7:1B:341:LEU:HD23	7:1B:406:LEU:HD11	1.93	0.51
10:1E:12:ASP:O	14:1J:7:ARG:NH2	2.41	0.51
1:1N:46:TRP:NE1	1:1N:48:THR:OG1	2.44	0.51
28:1Z:23:VAL:HG22	28:1Z:40:VAL:HG12	1.93	0.51
8:1c:28:GLN:OE1	9:1d:234:ARG:NH1	2.44	0.51
1:01:70:ARG:NH1	30:01:305:CHL:OBD	2.40	0.51
30:01:303:CHL:HBC3	29:01:309:CLA:HMA2	1.93	0.51
1:06:96:VAL:HB	1:06:99:LYS:HG2	1.93	0.51
6:1A:159:LEU:HD21	34:1C:516:DGD:HA62	1.92	0.51
8:1C:29:GLU:OE2	24:1V:30:GLY:N	2.43	0.51
8:1C:331:ALA:O	18:1O:111:TYR:OH	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1D:211:LEU:HB3	9:1D:272:MET:HG2	1.91	0.51
9:1D:234:ARG:NH2	24:1V:28:ALA:O	2.40	0.51
40:1a:412:PL9:H353	9:1d:43:TYR:HA	1.93	0.51
29:1b:602:CLA:C4C	40:1r:301:PL9:H412	2.39	0.51
29:1b:606:CLA:HAB	33:1b:624:LHG:H271	1.92	0.51
1:1g:51:LEU:HD13	29:1g:602:CLA:H42	1.92	0.51
1:1g:106:SER:OG	1:1g:108:GLY:O	2.28	0.51
21:1s:173:LEU:HD12	31:1s:317:LUT:H222	1.93	0.51
24:1v:24:PRO:HB3	24:1v:61:ASP:HB2	1.92	0.51
3:04:175:ARG:NH2	29:04:310:CLA:O1A	2.44	0.51
6:1A:78:ILE:H	16:1L:34:ASN:ND2	2.08	0.51
6:1A:131:TRP:HH2	8:1C:442:LEU:HD13	1.76	0.51
7:1B:242:ILE:HG23	7:1B:462:PHE:HD2	1.75	0.51
41:1B:620:SQD:H92	41:1m:101:SQD:H102	1.93	0.51
8:1C:67:MET:O	8:1C:71:GLU:HG3	2.11	0.51
8:1C:323:ARG:NH2	8:1C:389:GLU:OE1	2.44	0.51
6:1a:65:GLU:OE2	6:1a:335:ASN:ND2	2.42	0.51
7:1b:315:ILE:HG12	7:1b:321:LYS:HG3	1.93	0.51
1:00:191:MET:HA	1:00:194:PHE:CD2	2.46	0.50
3:08:70:VAL:HG21	29:08:307:CLA:HBC3	1.92	0.50
7:1B:61:PHE:HB2	29:1B:605:CLA:HMA3	1.92	0.50
9:1D:21:ASP:OD2	26:1X:83:ARG:NH1	2.43	0.50
12:1H:52:VAL:HG22	26:1X:58:ILE:HD12	1.92	0.50
13:1I:9:TYR:CD2	25:1W:22:LEU:HD22	2.45	0.50
41:1L:102:SQD:H122	35:1b:618:BCR:H383	1.93	0.50
1:1N:24:TYR:O	1:1N:26:GLY:N	2.44	0.50
6:1a:123:VAL:HB	6:1a:151:VAL:HG22	1.92	0.50
7:1b:263:THR:OG1	7:1b:263:THR:O	2.26	0.50
29:00:302:CLA:H92	29:1G:602:CLA:H92	1.93	0.50
2:03:89:ILE:HG21	29:03:312:CLA:HBB2	1.92	0.50
6:1A:84:PRO:HA	6:1A:112:TYR:CG	2.47	0.50
6:1A:130:GLU:HB2	6:1A:144:ALA:HB2	1.91	0.50
40:1E:102:PL9:H212	11:1F:28:LEU:HD13	1.93	0.50
29:1S:315:CLA:HBB1	29:1S:315:CLA:HHC	1.92	0.50
33:1b:628:LHG:H201	16:1l:27:VAL:HG21	1.91	0.50
8:1c:186:TYR:HA	8:1c:196:VAL:HA	1.93	0.50
22:1t:1:MET:HE3	33:1t:101:LHG:HC91	1.93	0.50
1:02:185:ARG:HB3	29:02:608:CLA:HBC3	1.92	0.50
3:04:62:MET:O	3:04:66:LEU:HD12	2.11	0.50
3:08:47:LEU:HA	3:08:50:TYR:HD2	1.76	0.50
3:08:125:GLU:OE1	3:08:125:GLU:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:09:302:CLA:H72	29:1g:602:CLA:H92	1.94	0.50
6:1A:133:LEU:HD23	9:1D:257:ILE:HG12	1.93	0.50
8:1C:343:ARG:NH1	18:1O:85:THR:O	2.44	0.50
41:1L:102:SQD:H271	41:1l:101:SQD:H121	1.92	0.50
7:1b:35:GLY:HA3	7:1b:101:ILE:HG13	1.92	0.50
38:1d:404:PHO:HHB	29:1d:406:CLA:H142	1.94	0.50
21:1s:90:ALA:HB2	31:1s:317:LUT:H401	1.93	0.50
8:1C:239:TRP:O	8:1C:243:ILE:HG13	2.11	0.50
8:1C:297:TYR:O	8:1C:423:ARG:NH2	2.42	0.50
40:1E:102:PL9:H103	11:1F:20:LEU:HD22	1.93	0.50
1:1N:69:SER:O	1:1N:72:ALA:N	2.44	0.50
1:1N:85:LEU:HB3	1:1N:90:VAL:HB	1.93	0.50
29:1c:512:CLA:HMA3	29:1c:512:CLA:H122	1.93	0.50
1:1g:57:THR:O	1:1g:61:ASN:ND2	2.37	0.50
14:1j:13:ILE:O	14:1j:17:THR:OG1	2.23	0.50
29:00:302:CLA:HED1	29:1G:602:CLA:H121	1.93	0.50
30:00:306:CHL:HBB1	30:1G:601:CHL:H152	1.93	0.50
3:04:174:ASP:N	3:04:174:ASP:OD1	2.43	0.50
41:1A:413:SQD:H131	41:1A:413:SQD:H251	1.94	0.50
9:1D:128:LEU:HD13	41:1D:412:SQD:H311	1.93	0.50
14:1J:7:ARG:HD2	24:1V:77:ASP:HB3	1.93	0.50
29:1S:306:CLA:HMA2	31:1S:318:LUT:H3	1.93	0.50
6:1a:20:TRP:CD1	41:1a:411:SQD:HO3	2.30	0.50
7:1b:399:VAL:HG23	7:1b:417:VAL:HG22	1.93	0.50
16:1l:13:LEU:HD23	17:1m:26:TYR:HB2	1.94	0.50
29:1n:602:CLA:HBB1	31:1n:615:LUT:H30	1.94	0.50
1:09:103:GLN:O	1:09:106:SER:OG	2.25	0.50
6:1A:28:LEU:HB3	41:1A:412:SQD:H101	1.94	0.50
7:1B:413:ASP:OD1	7:1B:416:THR:OG1	2.29	0.50
41:1B:628:SQD:H281	41:1B:628:SQD:H162	1.93	0.50
35:1B:630:BCR:H12C	22:1t:15:GLY:HA2	1.92	0.50
1:1N:133:VAL:HG11	33:1N:301:LHG:H302	1.94	0.50
29:1S:310:CLA:HBB1	31:1S:317:LUT:H32	1.92	0.50
29:1c:512:CLA:H72	29:1c:512:CLA:HED2	1.94	0.50
9:1d:21:ASP:OD2	26:1x:83:ARG:NH1	2.42	0.50
24:1v:43:VAL:HG12	24:1v:44:ALA:H	1.75	0.50
26:1x:47:LEU:HB3	26:1x:52:LYS:HE2	1.94	0.50
30:00:306:CHL:H43	1:1G:230:PRO:HG3	1.93	0.50
7:1B:41:GLU:HA	7:1B:44:VAL:HG22	1.93	0.50
20:1R:38:GLY:O	20:1R:41:LYS:NZ	2.45	0.50
29:1S:311:CLA:HHC	29:1S:311:CLA:HBB1	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1X:66:VAL:HA	26:1X:69:VAL:HG12	1.94	0.50
7:1b:326:ARG:HD3	7:1b:442:VAL:HB	1.94	0.50
9:1d:140:ARG:HD2	9:1d:142:TYR:HE2	1.77	0.50
1:1n:135:MET:HA	1:1n:138:VAL:HG22	1.93	0.50
18:1o:179:ARG:NH1	18:1o:182:GLU:OE2	2.45	0.50
19:1p:41:GLU:OE1	19:1p:48:ARG:NH1	2.45	0.50
24:1v:100:GLY:HA2	24:1v:103:LEU:HD12	1.93	0.50
1:09:192:PHE:O	1:09:196:VAL:HG12	2.12	0.50
1:1N:204:GLY:N	1:1N:207:GLU:OE2	2.37	0.50
19:1P:54:ASP:OD2	19:1P:167:ARG:NE	2.45	0.50
7:1b:40:TYR:HE1	33:1b:626:LHG:HC5	1.76	0.50
7:1b:94:GLU:HG2	33:1b:625:LHG:HC82	1.93	0.50
7:1b:276:ASP:OD1	7:1b:361:THR:OG1	2.27	0.50
29:1c:508:CLA:H8	33:1w:103:LHG:H221	1.94	0.50
33:1d:402:LHG:O9	16:1l:20:TRP:NE1	2.45	0.50
1:00:79:CYS:HG	1:00:97:TRP:CD1	2.29	0.50
1:00:185:ARG:HA	1:00:188:MET:HE3	1.93	0.50
1:00:198:ALA:O	1:00:199:ILE:C	2.55	0.50
1:05:142:ARG:NH2	30:05:307:CHL:O1D	2.42	0.50
2:07:205:PHE:HA	2:07:208:GLN:HE21	1.76	0.50
29:09:302:CLA:H52	29:1g:602:CLA:H71	1.94	0.50
21:1S:226:PHE:O	21:1S:229:ASN:ND2	2.45	0.50
33:1a:401:LHG:O2	8:1c:447:ARG:NH1	2.44	0.50
7:1b:33:TRP:HD1	35:1b:601:BCR:H381	1.77	0.50
8:1c:225:VAL:HG13	8:1c:289:PHE:HA	1.94	0.50
8:1c:376:ASP:HB3	8:1c:379:ARG:HB2	1.94	0.50
20:1r:239:ILE:HD11	29:1r:312:CLA:H11	1.94	0.50
26:1x:47:LEU:HD13	26:1x:51:LEU:HG	1.93	0.50
3:04:92:PHE:HA	20:1R:235:LEU:HB2	1.93	0.49
1:05:191:MET:HE1	31:05:314:LUT:H12	1.93	0.49
1:09:117:SER:O	1:09:117:SER:OG	2.27	0.49
6:1A:96:ILE:HB	13:1I:4:LEU:HD21	1.94	0.49
8:1C:79:LYS:O	8:1C:80:PRO:C	2.55	0.49
8:1C:236:GLY:HA3	35:1I:102:BCR:H402	1.93	0.49
11:1F:27:PHE:O	11:1F:31:ILE:HD12	2.12	0.49
14:1J:19:ILE:HG23	33:1J:102:LHG:H211	1.94	0.49
18:1O:6:ARG:HH12	18:1O:241:VAL:HG11	1.77	0.49
18:1O:200:ILE:HA	18:1O:219:GLU:O	2.12	0.49
20:1R:106:ALA:HB1	46:1R:316:XAT:H361	1.92	0.49
33:1c:521:LHG:HC82	33:1w:104:LHG:HC42	1.93	0.49
3:04:185:ARG:HB3	29:04:306:CLA:HBC3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1A:97:TRP:HZ3	13:1I:8:VAL:HG21	1.77	0.49
29:1B:603:CLA:H101	29:1B:608:CLA:H42	1.94	0.49
8:1C:165:LEU:HG	29:1C:506:CLA:HED1	1.94	0.49
29:1C:501:CLA:HBB1	35:1I:102:BCR:H23C	1.93	0.49
9:1D:127:MET:HA	9:1D:130:GLN:HG3	1.93	0.49
19:1P:56:ASN:O	19:1P:58:ASN:ND2	2.45	0.49
29:1c:507:CLA:HMD3	29:1c:509:CLA:HAB	1.94	0.49
15:1k:46:LEU:HA	15:1k:49:LEU:HD12	1.94	0.49
1:1n:182:LYS:NZ	29:1n:611:CLA:O1D	2.40	0.49
18:1o:90:GLU:HB2	18:1o:107:ASP:HB3	1.93	0.49
33:1w:103:LHG:H302	33:1w:104:LHG:H211	1.94	0.49
29:00:318:CLA:H52	33:00:319:LHG:H321	1.93	0.49
1:06:169:ASP:OD1	1:06:169:ASP:N	2.41	0.49
6:1A:55:ALA:O	6:1A:70:SER:OG	2.26	0.49
34:1A:414:DGD:HD5	7:1b:75:TRP:HB3	1.93	0.49
29:1N:304:CLA:HAC1	30:1N:308:CHL:HBB2	1.94	0.49
30:1N:306:CHL:HBC2	33:1N:318:LHG:H171	1.94	0.49
6:1a:96:ILE:HG12	6:1a:105:TRP:CE2	2.47	0.49
7:1b:457:THR:HG21	41:1b:621:SQD:H372	1.95	0.49
12:1h:45:VAL:O	12:1h:49:LEU:HD12	2.12	0.49
1:06:81:PHE:O	1:06:82:PRO:C	2.54	0.49
8:1C:249:ILE:HG12	43:1C:514:LNL:H9	1.94	0.49
8:1c:42:LEU:O	8:1c:44:ASN:N	2.46	0.49
1:00:191:MET:HE2	31:00:314:LUT:H12	1.94	0.49
30:07:304:CHL:HMB1	30:07:311:CHL:HMC	1.94	0.49
7:1B:68:ARG:HA	7:1B:167:TRP:HB2	1.95	0.49
9:1D:41:CYS:SG	9:1D:118:HIS:ND1	2.85	0.49
20:1R:104:MET:HB3	31:1R:315:LUT:C35	2.42	0.49
9:1d:198:HIS:HE1	29:1d:406:CLA:C1C	2.25	0.49
41:1l:101:SQD:H252	17:1m:24:ILE:HG21	1.94	0.49
30:01:306:CHL:H152	29:01:308:CLA:HBB1	1.93	0.49
2:03:86:LEU:HA	2:03:89:ILE:HG22	1.94	0.49
2:03:107:TRP:O	2:03:109:LYS:NZ	2.44	0.49
1:09:176:LEU:HA	1:09:179:LYS:HB2	1.93	0.49
1:1N:128:TRP:O	1:1N:132:VAL:HG23	2.13	0.49
8:1c:39:ASN:ND2	29:1c:512:CLA:O1A	2.39	0.49
9:1d:341:ILE:HD13	19:1p:39:GLU:HG2	1.95	0.49
1:1g:86:ALA:HA	1:1g:90:VAL:HB	1.93	0.49
7:1B:237:VAL:O	7:1B:241:SER:OG	2.29	0.49
8:1C:189:TRP:NE1	8:1C:228:ASP:O	2.45	0.49
6:1a:229:GLU:O	7:1b:7:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1a:283:ILE:HA	6:1a:286:THR:HG22	1.94	0.49
41:1a:410:SQD:H311	42:1k:101:MGE:H6B1	1.93	0.49
7:1b:457:THR:HG23	9:1d:285:ILE:HG12	1.93	0.49
29:1c:510:CLA:HBC3	29:1c:512:CLA:H92	1.94	0.49
9:1d:275:VAL:HG22	40:1d:410:PL9:H222	1.95	0.49
16:1l:28:LEU:HD23	16:1l:31:LEU:HD23	1.94	0.49
29:1n:602:CLA:H51	29:1n:603:CLA:H3A	1.94	0.49
21:1s:200:MET:HG3	21:1s:203:PHE:HD2	1.78	0.49
41:1s:301:SQD:H152	29:1s:316:CLA:HAA1	1.94	0.49
29:09:309:CLA:CBB	31:09:313:LUT:H32	2.43	0.49
11:1F:10:PHE:HZ	27:1Y:23:ILE:HD12	1.77	0.49
11:1F:17:VAL:HG22	33:1V:201:LHG:H362	1.95	0.49
16:1L:18:LEU:HD22	17:1M:26:TYR:CD2	2.47	0.49
20:1R:131:ASP:OD1	20:1R:131:ASP:N	2.45	0.49
6:1a:108:ASN:ND2	18:1o:79:MET:O	2.45	0.49
8:1c:246:PHE:HD2	43:1c:501:LNL:H9	1.78	0.49
7:1B:40:TYR:OH	29:1B:605:CLA:OBD	2.19	0.49
7:1B:57:ARG:NH2	7:1B:335:GLY:O	2.45	0.49
35:1B:617:BCR:HC22	17:1M:6:LEU:HD22	1.95	0.49
24:1V:100:GLY:HA2	24:1V:103:LEU:HD12	1.93	0.49
7:1b:73:ASN:HB3	7:1b:85:VAL:HG11	1.95	0.49
7:1b:232:GLY:O	12:1h:30:TYR:OH	2.31	0.49
9:1d:191:ASN:OD1	9:1d:194:LEU:HB3	2.13	0.49
21:1s:195:LEU:HD13	29:1s:313:CLA:HBC1	1.93	0.49
1:00:192:PHE:CD1	30:00:308:CHL:H203	2.47	0.49
3:04:97:LEU:HD23	30:04:302:CHL:HAC1	1.95	0.49
1:05:169:ASP:OD1	1:05:169:ASP:N	2.38	0.49
3:08:12:ALA:O	3:08:14:LYS:N	2.46	0.49
3:08:81:GLU:HG3	3:08:201:GLY:HA2	1.95	0.49
41:1C:521:SQD:H271	33:1F:101:LHG:H122	1.94	0.49
1:1N:112:TYR:HD1	1:1N:113:LEU:HG	1.78	0.49
20:1R:109:GLY:O	20:1R:113:VAL:HG23	2.13	0.49
6:1a:179:THR:O	6:1a:183:MET:HG3	2.12	0.49
7:1b:33:TRP:CD1	35:1b:601:BCR:H381	2.47	0.49
7:1b:54:PRO:HD2	7:1b:57:ARG:HG3	1.94	0.49
34:1b:627:DGD:O3E	12:1h:72:MET:SD	2.70	0.49
1:1g:80:VAL:O	1:1g:84:LEU:N	2.46	0.49
46:1g:619:XAT:HO3	33:1n:616:LHG:HO1	1.60	0.49
35:1i:101:BCR:H363	33:1w:104:LHG:H222	1.94	0.49
30:1n:605:CHL:HBA2	33:1s:303:LHG:H121	1.95	0.49
20:1r:72:THR:OG1	20:1r:74:GLU:OE1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:00:157:PRO:HB3	30:00:307:CHL:HBC2	1.95	0.48
3:08:9:TRP:HB2	3:08:12:ALA:HA	1.95	0.48
1:09:197:GLN:NE2	31:09:313:LUT:H42	2.28	0.48
29:1C:505:CLA:H101	42:1C:524:MGE:H9A1	1.94	0.48
9:1D:41:CYS:HG	9:1D:118:HIS:HD1	1.60	0.48
10:1E:28:PRO:CD	40:1E:102:PL9:H301	2.43	0.48
1:1N:20:ASP:OD1	1:1N:20:ASP:N	2.36	0.48
7:1b:211:LEU:O	7:1b:215:PHE:N	2.41	0.48
8:1c:216:SER:O	8:1c:218:PHE:N	2.46	0.48
16:1l:18:LEU:HD11	17:1m:23:LEU:HD23	1.95	0.48
1:1n:127:ILE:HG12	30:1n:605:CHL:HAC1	1.95	0.48
20:1r:100:GLY:O	20:1r:104:MET:HG3	2.13	0.48
1:00:84:LEU:HD12	1:00:206:LEU:HD11	1.94	0.48
1:09:198:ALA:O	1:09:199:ILE:C	2.55	0.48
18:1O:158:ASP:HB2	18:1O:162:ARG:H	1.78	0.48
7:1b:37:MET:O	7:1b:41:GLU:HG3	2.12	0.48
7:1b:136:PRO:HB2	12:1h:32:LYS:HD3	1.96	0.48
7:1b:321:LYS:NZ	7:1b:363:PHE:O	2.45	0.48
20:1r:29:VAL:HG21	20:1r:195:GLN:HB3	1.95	0.48
31:1s:318:LUT:H181	31:1s:318:LUT:H8	1.94	0.48
1:01:65:GLU:OE1	1:01:185:ARG:NH2	2.45	0.48
6:1A:303:ASN:O	6:1A:305:SER:N	2.46	0.48
7:1B:173:GLY:O	7:1B:308:LYS:NZ	2.46	0.48
7:1B:381:VAL:HG12	7:1B:418:LYS:HG2	1.95	0.48
8:1C:61:VAL:HG13	8:1C:118:HIS:HD2	1.78	0.48
16:1L:13:LEU:HD22	17:1M:25:ILE:HG13	1.94	0.48
8:1c:180:LEU:HD21	8:1c:202:LEU:HD21	1.95	0.48
1:00:197:GLN:O	1:00:201:THR:N	2.46	0.48
1:05:185:ARG:HH12	29:05:301:CLA:C1D	2.26	0.48
1:06:82:PRO:HA	1:06:85:LEU:HD23	1.95	0.48
1:09:196:VAL:O	1:09:197:GLN:C	2.56	0.48
1:09:196:VAL:HG11	29:09:317:CLA:HAC2	1.94	0.48
1:09:197:GLN:HE22	31:09:313:LUT:H42	1.77	0.48
6:1A:56:PRO:HB2	18:1O:123:ARG:HH22	1.77	0.48
7:1B:40:TYR:HA	33:1t:101:LHG:H262	1.95	0.48
8:1C:57:ALA:O	8:1C:61:VAL:HG23	2.13	0.48
10:1E:35:TRP:HA	11:1F:33:ALA:HB2	1.95	0.48
30:1N:308:CHL:H161	30:1N:310:CHL:H102	1.96	0.48
18:1O:227:ASP:HB2	18:1O:231:LYS:HB2	1.96	0.48
7:1b:256:MET:O	7:1b:448:ARG:NE	2.34	0.48
29:1c:515:CLA:C3	30:1s:304:CHL:HAB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1j:101:BCR:H15C	15:1k:46:LEU:HB3	1.94	0.48
25:1w:34:TRP:CD1	33:1w:104:LHG:HC61	2.48	0.48
1:06:82:PRO:O	1:06:83:GLU:C	2.56	0.48
3:08:153:ASP:N	3:08:153:ASP:OD1	2.46	0.48
35:1A:409:BCR:H373	33:1I:101:LHG:H262	1.95	0.48
35:1D:406:BCR:HC8	35:1D:406:BCR:H331	1.96	0.48
18:1O:59:THR:HB	18:1O:73:PHE:HB3	1.94	0.48
20:1R:230:HIS:CD2	30:1R:313:CHL:NC	2.80	0.48
7:1b:385:ARG:NH2	18:1o:167:GLY:O	2.34	0.48
20:1r:233:ASP:OD1	20:1r:233:ASP:N	2.42	0.48
29:01:301:CLA:CBB	31:01:315:LUT:H34	2.43	0.48
31:01:315:LUT:H171	31:01:315:LUT:H8	1.96	0.48
1:06:168:ASP:N	1:06:168:ASP:OD1	2.47	0.48
29:1C:505:CLA:H72	42:1C:524:MGE:H111	1.95	0.48
1:1G:209:LEU:HD22	31:1G:615:LUT:H172	1.95	0.48
18:1O:103:PHE:HD2	18:1O:133:LEU:HD23	1.78	0.48
6:1a:84:PRO:HB2	6:1a:169:SER:HA	1.96	0.48
6:1a:288:LEU:O	6:1a:292:THR:HG23	2.14	0.48
7:1b:40:TYR:OH	29:1b:608:CLA:OBD	2.26	0.48
1:1g:162:ASP:OD1	1:1g:162:ASP:N	2.46	0.48
1:1n:63:GLU:HA	1:1n:155:LEU:HD11	1.96	0.48
1:1n:110:LEU:HD21	30:1n:606:CHL:HAC1	1.95	0.48
21:1s:222:LEU:HD12	33:1s:319:LHG:H111	1.95	0.48
26:1x:56:LEU:O	26:1x:60:SER:OG	2.25	0.48
6:1A:225:ARG:NH2	7:1B:483:ASP:OD1	2.47	0.48
7:1B:263:THR:O	7:1B:263:THR:OG1	2.32	0.48
9:1D:85:SER:OG	10:1E:66:ILE:O	2.28	0.48
21:1S:81:HIS:HE1	29:1S:315:CLA:ND	2.00	0.48
6:1a:58:VAL:HB	6:1a:83:ILE:HB	1.96	0.48
40:1a:412:PL9:H352	9:1d:46:LEU:HD12	1.96	0.48
34:1b:627:DGD:O5D	34:1b:627:DGD:O4D	2.29	0.48
9:1d:153:VAL:O	9:1d:157:VAL:HG12	2.14	0.48
18:1o:39:PHE:HD1	18:1o:204:VAL:HG11	1.79	0.48
18:1o:95:VAL:HG22	18:1o:101:ILE:HG22	1.96	0.48
21:1s:154:ILE:HG22	21:1s:155:ILE:HG13	1.96	0.48
1:05:110:LEU:HD11	30:05:304:CHL:HHD	1.95	0.48
33:1C:525:LHG:H131	29:1S:314:CLA:HMC1	1.96	0.48
41:1L:102:SQD:H192	35:1b:618:BCR:H19C	1.95	0.48
1:1N:25:LEU:HA	30:1N:302:CHL:C1B	2.34	0.48
7:1b:201:HIS:HB2	29:1b:603:CLA:C1B	2.44	0.48
8:1c:236:GLY:HA3	35:1i:101:BCR:H402	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1c:513:CLA:HBA1	35:1c:516:BCR:H271	1.95	0.48
2:07:151:TYR:O	2:07:154:ASN:ND2	2.46	0.48
2:07:183:THR:HG21	3:08:161:THR:HG21	1.96	0.48
6:1A:326:LEU:HB2	8:1C:412:THR:HB	1.96	0.48
35:1D:406:BCR:H321	35:1D:406:BCR:HC7	1.66	0.48
18:1O:67:LYS:NZ	18:1O:72:GLU:OE1	2.44	0.48
28:1Z:16:SER:O	28:1Z:20:VAL:HG23	2.14	0.48
6:1a:142:TRP:HB2	9:1d:221:ASN:HD21	1.78	0.48
7:1b:389:LYS:HD3	19:1p:41:GLU:HG2	1.96	0.48
9:1d:295:ARG:HG3	9:1d:297:TYR:HB2	1.96	0.48
34:00:320:DGD:HAT1	8:1C:214:LEU:HD21	1.95	0.48
1:01:220:ASN:N	1:01:220:ASN:OD1	2.46	0.48
1:06:194:PHE:HA	1:06:197:GLN:HG2	1.95	0.48
6:1A:341:LEU:HD21	19:1P:170:LYS:HE2	1.96	0.48
7:1B:66:MET:HB3	7:1B:71:ILE:HB	1.96	0.48
7:1b:242:ILE:HA	7:1b:245:VAL:HG22	1.95	0.48
8:1c:185:ILE:HG22	8:1c:230:LEU:HD11	1.96	0.48
43:1c:501:LNL:H141	29:1c:508:CLA:HAC2	1.96	0.48
1:1g:63:GLU:O	1:1g:67:ILE:HG12	2.14	0.48
29:1r:308:CLA:H62	29:1r:308:CLA:H41	1.56	0.48
25:1w:13:LEU:N	41:1w:101:SQD:O9	2.47	0.48
1:01:128:TRP:O	1:01:132:VAL:HG23	2.14	0.47
2:03:175:LEU:HB2	31:03:313:LUT:H23	1.96	0.47
3:08:52:GLU:O	3:08:56:ILE:HG12	2.14	0.47
1:09:80:VAL:HA	1:09:83:GLU:HB2	1.95	0.47
18:1O:166:THR:OG1	18:1O:167:GLY:N	2.47	0.47
6:1a:56:PRO:HD2	6:1a:106:LEU:HD22	1.96	0.47
10:1e:35:TRP:HA	11:1f:33:ALA:HB2	1.96	0.47
18:1o:242:TRP:HE1	18:1o:244:ALA:HB2	1.79	0.47
24:1v:72:TRP:HB3	24:1v:75:THR:HB	1.96	0.47
1:01:164:LEU:HD12	31:01:314:LUT:H222	1.96	0.47
1:09:60:LYS:O	1:09:64:LEU:HD12	2.14	0.47
8:1C:124:VAL:HG13	34:1S:320:DGD:HBT2	1.95	0.47
11:1F:31:ILE:O	11:1F:35:GLN:HG2	2.14	0.47
1:1G:128:TRP:HA	1:1G:131:GLN:HG2	1.96	0.47
30:1R:303:CHL:HBB2	30:1R:304:CHL:CBB	2.44	0.47
26:1X:61:GLY:HA2	47:1X:101:3PH:H3A2	1.95	0.47
6:1a:165:GLN:NE2	6:1a:294:ALA:O	2.47	0.47
41:1a:410:SQD:O7	42:1k:101:MGE:O3D	2.31	0.47
7:1b:270:PRO:HG3	7:1b:312:TYR:HD1	1.79	0.47
8:1c:310:SER:HB3	8:1c:355:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1l:8:GLU:OE1	16:1l:8:GLU:N	2.46	0.47
20:1r:163:ASN:O	20:1r:171:ARG:NH1	2.48	0.47
1:00:196:VAL:HA	1:00:199:ILE:HD12	1.97	0.47
1:02:197:GLN:O	1:02:201:THR:OG1	2.30	0.47
3:08:67:GLY:HA2	3:08:70:VAL:HG22	1.97	0.47
6:1A:159:LEU:HD11	34:1C:516:DGD:HA31	1.95	0.47
7:1B:497:LYS:HB2	7:1B:503:THR:HG21	1.95	0.47
29:1B:608:CLA:HHC	29:1B:608:CLA:HBB1	1.95	0.47
41:1B:629:SQD:HO4	41:1B:629:SQD:HO8	1.61	0.47
40:1E:102:PL9:H33	40:1E:102:PL9:H48	1.96	0.47
1:1G:59:ALA:HA	1:1G:62:ARG:HE	1.79	0.47
30:1N:302:CHL:H42	33:1N:317:LHG:H171	1.95	0.47
6:1a:89:ILE:HD11	6:1a:108:ASN:HB3	1.96	0.47
6:1a:129:ARG:HA	6:1a:132:GLU:HB2	1.95	0.47
29:1a:405:CLA:H2	38:1a:407:PHO:C4B	2.44	0.47
10:1e:40:THR:HG22	24:1v:107:THR:HG21	1.95	0.47
1:1n:131:GLN:NE2	30:1n:607:CHL:HMC	2.25	0.47
1:02:110:LEU:HD11	29:02:609:CLA:HBD	1.96	0.47
29:04:314:CLA:HHC	29:04:314:CLA:HBB1	1.95	0.47
1:09:64:LEU:HD22	29:09:302:CLA:HAA2	1.96	0.47
9:1D:96:PRO:O	9:1D:99:GLN:NE2	2.47	0.47
1:1G:57:THR:O	1:1G:61:ASN:HB2	2.15	0.47
12:1H:49:LEU:HB3	35:1H:101:BCR:H14C	1.96	0.47
7:1b:242:ILE:HG23	7:1b:462:PHE:HD2	1.79	0.47
35:1b:618:BCR:HC22	41:1b:621:SQD:H82	1.96	0.47
9:1d:292:LEU:HB2	9:1d:294:LEU:HD12	1.95	0.47
13:1i:14:PHE:CD1	25:1w:33:ILE:HD11	2.50	0.47
21:1s:81:HIS:HD2	31:1s:318:LUT:H15	1.78	0.47
21:1s:231:LEU:O	41:1s:301:SQD:O8	2.31	0.47
2:03:160:GLY:HA3	30:03:305:CHL:HBC1	1.97	0.47
7:1B:235:GLU:HB3	7:1B:473:THR:HB	1.96	0.47
9:1D:50:PHE:O	9:1D:54:THR:OG1	2.25	0.47
18:1O:213:GLU:OE1	18:1O:243:TYR:OH	2.32	0.47
20:1R:100:GLY:O	20:1R:103:ALA:N	2.47	0.47
6:1a:97:TRP:NE1	41:1w:101:SQD:O3	2.44	0.47
7:1b:6:TYR:OH	33:1b:628:LHG:O5	2.30	0.47
29:1b:604:CLA:H2	29:1b:606:CLA:H91	1.96	0.47
8:1c:262:ARG:NH1	25:1w:37:TYR:OH	2.47	0.47
1:1g:21:ARG:NE	1:1g:43:ASP:O	2.48	0.47
13:1i:10:THR:O	13:1i:14:PHE:HB2	2.14	0.47
13:1i:21:PHE:HA	13:1i:24:LEU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:00:321:LHG:H112	33:1W:102:LHG:H262	1.96	0.47
1:09:126:ALA:O	1:09:130:VAL:HG12	2.15	0.47
7:1B:326:ARG:NH2	9:1D:298:ASP:OD2	2.45	0.47
8:1C:82:TYR:OH	8:1C:394:GLU:OE1	2.27	0.47
9:1D:157:VAL:HG12	9:1D:287:VAL:HG11	1.94	0.47
29:1b:603:CLA:H42	34:1b:627:DGD:HB22	1.95	0.47
8:1c:330:SER:O	18:1o:131:LYS:NZ	2.47	0.47
30:1n:607:CHL:H151	30:1n:607:CHL:H18	1.54	0.47
24:1v:33:PHE:HA	24:1v:37:VAL:HA	1.97	0.47
1:00:135:MET:HE1	30:00:305:CHL:HHB	1.97	0.47
29:00:309:CLA:CBB	31:00:313:LUT:H32	2.45	0.47
1:01:50:GLY:O	1:02:57:THR:OG1	2.33	0.47
2:03:196:ARG:NH2	29:03:301:CLA:O1D	2.48	0.47
3:08:186:LEU:HD11	29:08:310:CLA:HBC3	1.97	0.47
6:1A:156:ALA:HA	6:1A:160:ILE:HB	1.97	0.47
38:1A:405:PHO:H72	29:1D:401:CLA:H171	1.96	0.47
41:1A:411:SQD:H292	29:1C:507:CLA:H62	1.97	0.47
29:1B:611:CLA:H61	29:1B:611:CLA:H41	1.61	0.47
8:1C:189:TRP:HE1	8:1C:295:THR:HB	1.79	0.47
8:1C:275:SER:HB3	29:1C:508:CLA:HED3	1.97	0.47
8:1C:311:GLN:NE2	8:1C:358:PHE:O	2.47	0.47
29:1C:512:CLA:H52	33:1S:301:LHG:H102	1.96	0.47
40:1E:102:PL9:C35	33:1P:201:LHG:H381	2.45	0.47
30:1G:601:CHL:H52	46:1G:617:XAT:H15	1.97	0.47
29:1G:612:CLA:H8	33:1G:618:LHG:H131	1.95	0.47
20:1R:175:GLY:N	29:1R:307:CLA:OBD	2.43	0.47
20:1R:207:VAL:HA	20:1R:210:LEU:HD12	1.96	0.47
46:1R:316:XAT:H31	46:1R:316:XAT:H391	1.59	0.47
21:1S:82:ALA:HB2	21:1S:197:MET:HE3	1.96	0.47
21:1S:156:ASN:OD1	21:1S:156:ASN:N	2.46	0.47
33:1S:319:LHG:H242	33:1S:319:LHG:HC62	1.62	0.47
6:1a:131:TRP:HZ2	8:1c:449:ARG:HG2	1.79	0.47
6:1a:142:TRP:HZ2	8:1c:447:ARG:HB2	1.78	0.47
6:1a:160:ILE:HD13	8:1c:431:PHE:HZ	1.80	0.47
7:1b:12:VAL:HG12	7:1b:18:ARG:HB3	1.95	0.47
35:1b:601:BCR:H11C	35:1b:619:BCR:H382	1.97	0.47
8:1c:66:ALA:HA	15:1k:40:MET:HE3	1.97	0.47
8:1c:117:LEU:O	8:1c:121:SER:OG	2.25	0.47
10:1e:36:LEU:HD11	24:1v:103:LEU:HD13	1.94	0.47
1:1g:64:LEU:O	1:1g:68:HIS:ND1	2.40	0.47
46:1g:619:XAT:H15	46:1g:619:XAT:H201	1.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1o:16:THR:HG22	18:1o:18:MET:H	1.79	0.47
18:1o:217:VAL:HB	18:1o:241:VAL:HG12	1.96	0.47
19:1p:39:GLU:O	19:1p:40:ARG:NH1	2.42	0.47
19:1p:47:LEU:HB3	19:1p:61:VAL:HB	1.96	0.47
41:1s:301:SQD:H131	29:1s:316:CLA:H2A	1.96	0.47
1:00:110:LEU:HD22	30:00:305:CHL:HMD2	1.96	0.47
34:00:320:DGD:HG2	33:00:321:LHG:HC92	1.96	0.47
1:01:66:VAL:O	1:01:70:ARG:HG3	2.14	0.47
1:02:215:ASP:OD1	1:02:215:ASP:N	2.40	0.47
35:04:313:BCR:H321	35:04:313:BCR:HC7	1.64	0.47
7:1B:249:ALA:HA	7:1B:252:VAL:HG22	1.97	0.47
8:1C:66:ALA:HB1	15:1K:40:MET:HB3	1.96	0.47
8:1C:167:LEU:HD21	29:1C:511:CLA:HMB2	1.97	0.47
13:1I:7:PHE:O	13:1I:8:VAL:C	2.58	0.47
14:1J:39:SER:O	14:1J:39:SER:OG	2.30	0.47
20:1R:44:GLU:H	40:1R:301:PL9:H521	1.79	0.47
29:1b:609:CLA:HBA1	41:1b:622:SQD:H252	1.96	0.47
8:1c:316:THR:O	8:1c:320:ARG:HG3	2.15	0.47
10:1e:22:ILE:HG23	27:1y:19:VAL:HG12	1.96	0.47
40:1e:101:PL9:H102	45:1f:101:HEM:CMD	2.44	0.47
11:1f:21:ALA:HB1	45:1f:101:HEM:HAC	1.96	0.47
29:00:302:CLA:H151	29:1G:602:CLA:H122	1.95	0.47
29:00:318:CLA:H43	33:00:319:LHG:H361	1.97	0.47
1:05:139:GLU:OE1	30:05:307:CHL:C4B	2.40	0.47
2:07:178:ALA:O	2:07:180:ASP:N	2.47	0.47
1:09:189:PHE:HE1	29:09:317:CLA:H71	1.78	0.47
7:1B:347:ARG:NH2	7:1B:402:TYR:OH	2.48	0.47
8:1C:362:ARG:HA	8:1C:367:GLU:OE1	2.15	0.47
15:1K:44:PRO:HA	15:1K:47:PHE:HD2	1.80	0.47
18:1O:50:LYS:HB3	18:1O:245:GLN:HB2	1.96	0.47
8:1c:144:PHE:O	8:1c:148:GLY:N	2.45	0.47
40:1d:410:PL9:H362	16:1l:31:LEU:HD13	1.96	0.47
14:1j:21:VAL:O	14:1j:25:ILE:HG12	2.15	0.47
30:05:304:CHL:CBB	30:05:305:CHL:HBB1	2.45	0.47
2:07:208:GLN:HE22	31:07:313:LUT:H182	1.80	0.47
1:09:196:VAL:HG11	29:09:317:CLA:CAC	2.45	0.47
6:1A:30:ILE:HG23	6:1A:38:ILE:HD12	1.96	0.47
34:1A:414:DGD:HA21	7:1b:90:ILE:HD13	1.95	0.47
7:1B:4:PRO:HD2	7:1B:7:ARG:HB2	1.96	0.47
7:1B:20:LEU:O	7:1B:24:ILE:HG13	2.15	0.47
7:1B:114:HIS:HE1	29:1B:614:CLA:C1D	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1C:400:PRO:O	8:1C:424:SER:OG	2.29	0.47
29:1C:505:CLA:HHC	29:1C:505:CLA:HBB1	1.97	0.47
6:1a:30:ILE:HG23	6:1a:38:ILE:HD12	1.97	0.47
6:1a:37:MET:HE3	6:1a:41:LEU:HD12	1.97	0.47
31:1g:616:LUT:H201	31:1g:616:LUT:H35	1.95	0.47
1:1n:142:ARG:NH2	30:1n:609:CHL:O1D	2.46	0.47
30:1n:601:CHL:HAC2	33:1n:616:LHG:HC42	1.96	0.47
29:1n:603:CLA:HAC1	30:1n:607:CHL:HBB2	1.95	0.47
29:1n:611:CLA:H3A	29:1n:611:CLA:HBA2	1.78	0.47
29:01:308:CLA:HAB	31:01:315:LUT:C35	2.45	0.46
3:04:93:SER:H	3:04:96:SER:HB2	1.80	0.46
1:09:185:ARG:HB2	33:09:316:LHG:H251	1.97	0.46
7:1B:354:LEU:HD23	7:1B:370:LEU:HB3	1.97	0.46
8:1C:243:ILE:HG22	29:1C:513:CLA:HAC2	1.97	0.46
29:1G:612:CLA:HMB2	29:1G:613:CLA:HHD	1.96	0.46
1:1N:63:GLU:HA	1:1N:155:LEU:HD21	1.96	0.46
6:1a:71:LEU:HA	6:1a:75:ASN:HB3	1.96	0.46
7:1b:341:LEU:HD12	7:1b:429:ILE:HG22	1.96	0.46
10:1e:42:LEU:HD12	27:1y:8:LEU:HD13	1.96	0.46
33:1n:617:LHG:H111	33:1s:303:LHG:H261	1.97	0.46
1:00:46:TRP:CD1	1:00:48:THR:HG1	2.33	0.46
1:00:48:THR:HG21	30:1N:310:CHL:HAA2	1.95	0.46
1:01:124:ILE:HD12	1:01:124:ILE:H	1.79	0.46
6:1A:147:TYR:HD1	6:1A:150:PRO:HG2	1.79	0.46
29:1B:609:CLA:HMB2	29:1B:611:CLA:HBA1	1.98	0.46
35:1B:619:BCR:H321	35:1B:619:BCR:HC8	1.96	0.46
6:1a:47:VAL:HG21	6:1a:114:LEU:HD22	1.97	0.46
7:1b:79:SER:OG	7:1b:83:GLY:O	2.32	0.46
41:1b:622:SQD:H241	41:1b:622:SQD:H461	1.65	0.46
8:1c:341:LEU:HD11	8:1c:380:LEU:HD23	1.97	0.46
29:1c:508:CLA:HBB1	29:1c:509:CLA:H102	1.97	0.46
9:1d:20:ASP:OD1	9:1d:33:TRP:NE1	2.44	0.46
9:1d:130:GLN:NE2	38:1d:404:PHO:OBD	2.48	0.46
1:1g:128:TRP:O	1:1g:132:VAL:HG23	2.15	0.46
41:1m:101:SQD:H242	41:1m:101:SQD:H462	1.43	0.46
29:1s:315:CLA:HMB2	29:1s:316:CLA:HHD	1.95	0.46
30:00:306:CHL:H3A	30:00:306:CHL:HBA1	1.45	0.46
1:01:41:PRO:HB2	1:01:181:ILE:HG21	1.97	0.46
1:02:33:PRO:HG2	1:02:36:LEU:HB2	1.98	0.46
34:1A:414:DGD:HA52	33:1I:101:LHG:H302	1.97	0.46
1:1G:192:PHE:CE2	31:1G:616:LUT:H14	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:130:VAL:HG12	33:1N:318:LHG:H351	1.97	0.46
6:1a:304:GLN:HE22	19:1p:33:LYS:HD3	1.80	0.46
29:1b:615:CLA:H62	29:1b:615:CLA:H41	1.64	0.46
8:1c:182:PHE:HZ	29:1s:316:CLA:HAB	1.80	0.46
1:00:169:ASP:OD1	1:00:169:ASP:N	2.38	0.46
1:00:203:LYS:HB3	1:00:207:GLU:HG3	1.97	0.46
2:07:73:LEU:O	2:07:77:HIS:ND1	2.42	0.46
6:1A:86:SER:HB3	6:1A:89:ILE:HD13	1.97	0.46
29:1B:604:CLA:HBB1	33:1B:621:LHG:H292	1.98	0.46
13:1I:18:LEU:O	13:1I:19:PHE:C	2.58	0.46
18:1O:27:ASN:O	18:1O:85:THR:OG1	2.29	0.46
21:1S:80:ILE:HD13	29:1S:316:CLA:HED2	1.96	0.46
6:1a:84:PRO:HA	6:1a:112:TYR:CG	2.50	0.46
6:1a:273:PHE:CZ	33:1a:401:LHG:HC92	2.50	0.46
8:1c:282:PHE:HE1	29:1c:503:CLA:H112	1.81	0.46
8:1c:362:ARG:O	34:1c:518:DGD:O3E	2.33	0.46
29:1c:508:CLA:H92	29:1c:508:CLA:H61	1.80	0.46
9:1d:326:ILE:O	9:1d:330:MET:HB3	2.16	0.46
18:1o:169:ASP:OD1	18:1o:169:ASP:N	2.47	0.46
40:1r:301:PL9:H472	40:1r:301:PL9:H451	1.57	0.46
21:1s:81:HIS:CD2	31:1s:318:LUT:H15	2.51	0.46
1:02:74:LEU:HD22	30:02:606:CHL:HBD	1.95	0.46
29:1A:404:CLA:H122	38:1A:405:PHO:H3A	1.97	0.46
21:1S:148:GLY:HA2	21:1S:151:TYR:HB2	1.96	0.46
24:1V:42:ARG:HH22	24:1V:45:LYS:HE2	1.80	0.46
35:1Z:102:BCR:H341	35:1Z:102:BCR:H11C	1.73	0.46
6:1a:334:ARG:O	9:1d:351:ASN:ND2	2.40	0.46
7:1b:66:MET:HE3	7:1b:93:TYR:HD1	1.80	0.46
8:1c:182:PHE:CZ	29:1s:316:CLA:HAB	2.51	0.46
29:1c:514:CLA:HMB2	33:1s:302:LHG:H261	1.98	0.46
10:1e:19:TYR:OH	40:1e:101:PL9:H101	2.16	0.46
2:03:73:LEU:HA	2:03:76:ILE:HB	1.97	0.46
2:03:83:LEU:C	29:03:310:CLA:HAB	2.41	0.46
3:04:21:ASN:HB2	3:04:23:PRO:HD2	1.98	0.46
7:1B:207:THR:O	7:1B:210:ILE:HB	2.16	0.46
29:1B:605:CLA:HBC3	35:1B:618:BCR:HC8	1.98	0.46
20:1R:101:ARG:NE	20:1R:198:GLU:OE2	2.49	0.46
21:1S:146:VAL:HG13	30:1S:309:CHL:HMA3	1.97	0.46
8:1c:251:HIS:HE1	29:1c:508:CLA:NA	2.13	0.46
16:1l:21:GLY:O	16:1l:25:ILE:HG12	2.15	0.46
24:1v:33:PHE:HZ	24:1v:49:LEU:HD21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:00:172:ALA:O	1:00:176:LEU:HD12	2.15	0.46
1:14:216:PRO:O	1:14:217:VAL:C	2.59	0.46
7:1B:206:GLY:O	7:1B:210:ILE:N	2.42	0.46
29:1B:603:CLA:H193	29:1B:607:CLA:HBB2	1.96	0.46
9:1D:72:CYS:HB3	9:1D:77:ALA:HB2	1.97	0.46
20:1R:39:LEU:HD13	29:1R:302:CLA:H42	1.98	0.46
7:1b:6:TYR:CD1	7:1b:7:ARG:HG3	2.51	0.46
35:1b:601:BCR:H23C	35:1b:601:BCR:H403	1.97	0.46
8:1c:406:SER:HA	8:1c:420:VAL:HG23	1.98	0.46
8:1c:437:PHE:HA	29:1c:510:CLA:HMC2	1.96	0.46
15:1k:55:GLN:HA	15:1k:58:VAL:HG12	1.97	0.46
29:01:301:CLA:H62	29:01:301:CLA:H41	1.65	0.46
30:09:308:CHL:H91	30:09:308:CHL:H112	1.79	0.46
8:1C:109:PHE:HE2	41:1S:302:SQD:H2	1.81	0.46
9:1D:314:THR:HB	9:1D:317:THR:HG23	1.97	0.46
1:1G:83:GLU:HA	1:1G:86:ALA:HB3	1.97	0.46
40:1R:301:PL9:H151	40:1R:301:PL9:H172	1.76	0.46
6:1a:244:GLU:OE1	9:1d:265:LYS:NZ	2.46	0.46
7:1b:41:GLU:O	7:1b:45:PHE:N	2.49	0.46
9:1d:34:SER:OG	9:1d:132:GLU:OE1	2.30	0.46
1:1g:163:PRO:HG2	1:1g:164:LEU:HD12	1.98	0.46
19:1p:45:GLN:HA	19:1p:62:ILE:HA	1.98	0.46
27:1y:20:LEU:HA	27:1y:24:LEU:HD13	1.98	0.46
1:01:55:PRO:HA	1:01:58:PHE:HB3	1.98	0.46
1:01:115:ASN:OD1	1:01:115:ASN:N	2.49	0.46
7:1B:276:ASP:OD1	7:1B:361:THR:OG1	2.31	0.46
7:1B:471:ALA:HB1	9:1D:141:PRO:HG2	1.98	0.46
17:1M:8:PHE:CE1	22:1T:1:MET:HG2	2.51	0.46
18:1O:149:PRO:HA	18:1O:195:SER:HA	1.98	0.46
20:1R:105:LEU:HD21	29:1R:307:CLA:HMC3	1.98	0.46
6:1a:54:ALA:HA	6:1a:72:LEU:HD22	1.98	0.46
40:1a:412:PL9:H222	40:1a:412:PL9:H201	1.58	0.46
7:1b:70:GLY:HA2	7:1b:178:VAL:HG11	1.98	0.46
18:1o:6:ARG:HH22	18:1o:241:VAL:HG11	1.81	0.46
20:1r:131:ASP:OD1	20:1r:132:GLY:N	2.48	0.46
20:1r:212:PHE:CZ	31:1r:315:LUT:H8	2.50	0.46
1:02:14:SER:O	1:02:19:ALA:N	2.49	0.46
3:08:21:ASN:HD21	3:08:24:TRP:HB2	1.81	0.46
1:09:186:LEU:HD12	29:09:310:CLA:HHD	1.98	0.46
29:1D:401:CLA:H91	40:1D:407:PL9:H402	1.97	0.46
13:1I:5:LYS:HD3	25:1W:22:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1K:54:TRP:HD1	33:1K:101:LHG:HC61	1.81	0.46
8:1c:216:SER:O	8:1c:216:SER:OG	2.25	0.46
10:1e:69:ARG:N	23:1u:133:ASN:O	2.44	0.46
1:1g:105:PHE:HZ	1:1n:222:TRP:HB3	1.81	0.46
19:1p:55:ALA:O	19:1p:58:ASN:ND2	2.42	0.46
29:1r:309:CLA:HBB1	31:1r:315:LUT:H32	1.97	0.46
46:1r:316:XAT:H191	46:1r:316:XAT:H11	1.44	0.46
28:1z:53:LEU:O	28:1z:57:LEU:HG	2.16	0.46
33:00:317:LHG:HC81	33:00:317:LHG:HC5	1.62	0.45
7:1B:22:VAL:HG11	29:1B:612:CLA:HMA1	1.98	0.45
7:1B:370:LEU:HB2	7:1B:379:ALA:HB3	1.97	0.45
35:1B:619:BCR:HC7	35:1B:619:BCR:H331	1.74	0.45
33:1C:523:LHG:H241	33:1C:523:LHG:HC62	1.47	0.45
21:1S:135:LEU:HA	21:1S:138:ALA:HB3	1.97	0.45
6:1a:81:ALA:HB1	6:1a:173:PRO:HB2	1.97	0.45
33:1a:413:LHG:H121	42:1k:101:MGE:H4A2	1.98	0.45
7:1b:57:ARG:NH2	7:1b:334:ASP:OD2	2.32	0.45
7:1b:201:HIS:HB2	29:1b:603:CLA:NB	2.31	0.45
8:1c:53:HIS:HD2	29:1c:511:CLA:NA	2.08	0.45
8:1c:461:ARG:NH2	9:1d:243:GLU:O	2.49	0.45
10:1e:25:ILE:CG2	24:1v:93:LEU:HA	2.46	0.45
21:1s:100:LYS:HA	21:1s:100:LYS:HD2	1.78	0.45
21:1s:200:MET:CE	31:1s:318:LUT:H14	2.46	0.45
1:00:128:TRP:O	1:00:132:VAL:HG13	2.16	0.45
2:03:173:ASP:HA	31:03:313:LUT:H24	1.99	0.45
2:07:156:LEU:HD12	2:07:158:GLY:H	1.80	0.45
1:09:192:PHE:O	1:09:193:GLY:C	2.57	0.45
8:1C:135:LEU:HD23	28:1Z:30:PRO:HB3	1.98	0.45
8:1C:210:PHE:HA	8:1C:213:LEU:HD12	1.98	0.45
9:1D:88:HIS:NE2	9:1D:165:GLN:O	2.35	0.45
10:1E:28:PRO:HD3	40:1E:102:PL9:H301	1.98	0.45
1:1N:24:TYR:HB2	30:1N:302:CHL:C4D	2.46	0.45
6:1a:91:LEU:HD11	6:1a:163:ILE:HA	1.97	0.45
29:1c:509:CLA:H62	29:1c:509:CLA:H41	1.65	0.45
11:1f:39:ARG:O	19:1p:13:LYS:NZ	2.47	0.45
20:1r:196:LEU:O	20:1r:200:LYS:HG3	2.16	0.45
40:1r:301:PL9:H371	40:1r:301:PL9:H351	1.70	0.45
28:1z:10:PHE:O	28:1z:14:VAL:HG23	2.16	0.45
28:1z:57:LEU:HA	28:1z:60:LEU:HB2	1.98	0.45
29:02:602:CLA:HBC2	30:02:605:CHL:HBB2	1.97	0.45
2:03:195:GLY:O	2:03:199:MET:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:03:208:GLN:HA	2:03:211:VAL:HG22	1.97	0.45
1:05:16:TRP:HB3	1:05:178:VAL:HG11	1.97	0.45
3:08:136:ASN:HB3	3:08:150:LYS:HB2	1.98	0.45
1:09:66:VAL:HG21	1:09:155:LEU:HD12	1.99	0.45
33:09:318:LHG:HC62	33:09:318:LHG:H241	1.58	0.45
7:1B:115:TRP:CG	35:1B:617:BCR:H292	2.51	0.45
7:1B:257:TRP:O	7:1B:271:THR:OG1	2.33	0.45
35:1B:630:BCR:H403	35:1B:630:BCR:H24C	1.79	0.45
41:1D:411:SQD:O8	11:1F:34:MET:O	2.25	0.45
33:1F:101:LHG:H242	33:1F:101:LHG:HC62	1.41	0.45
1:1G:68:HIS:HD2	31:1G:616:LUT:H15	1.81	0.45
1:1G:130:VAL:HG21	30:1G:605:CHL:HBC1	1.97	0.45
1:1N:184:GLY:O	1:1N:188:MET:HG2	2.16	0.45
33:1P:201:LHG:H101	33:1P:201:LHG:H242	1.98	0.45
29:1R:309:CLA:HMD2	33:1R:318:LHG:HC32	1.98	0.45
6:1a:208:GLY:O	6:1a:212:SER:OG	2.33	0.45
12:1h:27:ASN:C	12:1h:27:ASN:HD22	2.24	0.45
35:1j:101:BCR:H371	35:1j:101:BCR:H24C	1.53	0.45
1:1n:197:GLN:O	1:1n:201:THR:OG1	2.33	0.45
30:1n:607:CHL:H143	30:1n:607:CHL:H111	1.79	0.45
21:1s:184:LEU:O	21:1s:188:LYS:HG3	2.17	0.45
26:1x:69:VAL:O	26:1x:73:VAL:HG23	2.17	0.45
1:00:210:ALA:O	34:00:320:DGD:O2D	2.34	0.45
1:01:211:ASP:HB2	1:01:219:ASN:HD22	1.81	0.45
1:09:190:SER:HB3	31:09:313:LUT:C8	2.47	0.45
1:09:191:MET:O	1:09:192:PHE:C	2.59	0.45
8:1C:318:LEU:HD13	8:1C:351:PHE:HE1	1.81	0.45
9:1D:189:PHE:O	9:1D:295:ARG:NH1	2.50	0.45
14:1J:13:ILE:O	14:1J:17:THR:HG22	2.16	0.45
1:1N:170:PRO:HD2	1:1N:171:GLU:N	2.31	0.45
18:1O:93:LEU:HD11	18:1O:101:ILE:HD11	1.99	0.45
6:1a:267:ASN:HB2	24:1v:60:VAL:HG21	1.99	0.45
7:1b:96:VAL:HG21	29:1b:606:CLA:HMA3	1.98	0.45
7:1b:227:LYS:O	41:1b:622:SQD:O3	2.25	0.45
1:1g:24:TYR:O	1:1g:26:GLY:N	2.49	0.45
1:1g:44:TYR:N	29:1g:602:CLA:OBD	2.50	0.45
46:1g:617:XAT:H201	46:1g:617:XAT:H15	1.62	0.45
14:1j:18:GLY:O	14:1j:22:ILE:HG13	2.17	0.45
20:1r:108:LEU:HD12	29:1r:304:CLA:HBC2	1.99	0.45
29:1s:305:CLA:CBB	31:1s:318:LUT:H32	2.47	0.45
24:1v:66:ILE:HG23	33:1v:201:LHG:HC82	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1w:34:TRP:O	25:1w:38:THR:OG1	2.30	0.45
1:01:97:TRP:CH2	1:01:99:LYS:HB2	2.51	0.45
1:01:191:MET:HE3	1:01:192:PHE:H	1.81	0.45
3:04:66:LEU:O	3:04:70:VAL:HG13	2.15	0.45
1:05:24:TYR:HE2	1:05:182:LYS:HE3	1.81	0.45
1:09:47:ASP:OD2	1:09:52:SER:OG	2.34	0.45
41:1A:413:SQD:H461	41:1A:413:SQD:H242	1.47	0.45
7:1B:115:TRP:NE1	41:1B:620:SQD:O3	2.48	0.45
7:1B:231:MET:HG2	29:1B:608:CLA:HBC3	1.99	0.45
7:1B:490:VAL:HG12	9:1D:137:VAL:HB	1.98	0.45
8:1C:312:ALA:O	8:1C:316:THR:OG1	2.28	0.45
29:1C:504:CLA:H61	34:1C:517:DGD:HB71	1.99	0.45
1:1G:112:TYR:HB2	1:1G:119:ILE:HD13	1.98	0.45
30:1G:601:CHL:H71	46:1G:617:XAT:H15	1.99	0.45
6:1a:268:SER:O	6:1a:272:HIS:ND1	2.49	0.45
29:1a:408:CLA:H3A	41:1w:101:SQD:H241	1.99	0.45
7:1b:247:PHE:O	7:1b:251:VAL:HG23	2.16	0.45
29:1b:613:CLA:H61	29:1b:613:CLA:H41	1.57	0.45
8:1c:130:ILE:HG22	28:1z:27:PHE:HD2	1.81	0.45
14:1j:10:LEU:HD22	33:1v:201:LHG:H241	1.97	0.45
20:1r:202:ALA:O	20:1r:206:MET:HG2	2.17	0.45
40:1A:410:PL9:H322	40:1A:410:PL9:H361	1.86	0.45
41:1A:412:SQD:H461	35:1b:620:BCR:H371	1.97	0.45
33:1C:520:LHG:H121	33:1C:520:LHG:H241	1.99	0.45
29:1D:401:CLA:H52	40:1D:407:PL9:H151	1.99	0.45
21:1S:88:GLY:O	21:1S:91:GLY:N	2.50	0.45
6:1a:23:SER:OG	6:1a:26:ASN:OD1	2.33	0.45
29:1b:611:CLA:HBD	29:1b:611:CLA:H143	1.99	0.45
8:1c:366:LEU:HD12	8:1c:369:LEU:HD12	1.98	0.45
41:1d:411:SQD:O3	11:1f:35:GLN:NE2	2.36	0.45
13:1i:17:SER:HB2	25:1w:33:ILE:HD13	1.98	0.45
30:1n:606:CHL:H3A	30:1n:606:CHL:HBA1	1.75	0.45
30:1s:304:CHL:H3A	30:1s:304:CHL:HBA1	1.67	0.45
1:02:46:TRP:O	1:02:48:THR:N	2.49	0.45
1:02:175:GLU:O	1:02:179:LYS:HG3	2.17	0.45
3:04:14:LYS:HE3	30:04:305:CHL:H3A	1.99	0.45
7:1B:241:SER:HB3	29:1B:608:CLA:HAA1	1.99	0.45
7:1B:242:ILE:HA	7:1B:245:VAL:HG22	1.97	0.45
7:1B:458:PHE:CE2	29:1B:616:CLA:HBB1	2.52	0.45
29:1B:602:CLA:H61	29:1B:602:CLA:H41	1.59	0.45
18:1O:162:ARG:HH11	18:1O:168:TYR:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1R:306:CLA:H2A	29:1R:306:CLA:HED3	1.99	0.45
7:1b:154:GLY:HA2	7:1b:158:VAL:HB	1.99	0.45
8:1c:285:ILE:HG21	29:1c:503:CLA:H61	1.99	0.45
29:1c:505:CLA:H172	29:1c:512:CLA:HBB2	1.99	0.45
41:1c:517:SQD:H132	15:1k:42:VAL:HG21	1.99	0.45
21:1s:116:ALA:HB2	30:1s:309:CHL:HED1	1.98	0.45
21:1s:118:LEU:HD23	21:1s:118:LEU:HA	1.86	0.45
1:01:104:ILE:HD12	1:01:124:ILE:HG13	1.98	0.45
1:01:203:LYS:HB3	1:01:207:GLU:HG3	1.98	0.45
3:04:29:LEU:HD12	3:04:30:PRO:HD2	1.98	0.45
1:05:208:ASN:HA	1:05:211:ASP:OD1	2.17	0.45
31:05:314:LUT:H372	29:06:602:CLA:HED3	1.99	0.45
3:08:65:VAL:HA	3:08:68:ILE:HB	1.99	0.45
8:1C:56:HIS:HE1	29:1C:509:CLA:NB	2.08	0.45
29:1D:401:CLA:H92	29:1D:401:CLA:H62	1.79	0.45
1:1G:60:LYS:O	1:1G:64:LEU:HD12	2.17	0.45
46:1G:617:XAT:H15	46:1G:617:XAT:H201	1.61	0.45
1:1N:193:GLY:O	1:1N:197:GLN:HG3	2.16	0.45
18:1O:115:THR:HG22	18:1O:125:PRO:HB3	1.97	0.45
20:1R:146:THR:O	20:1R:150:ILE:HG22	2.17	0.45
29:1R:302:CLA:H71	46:1R:316:XAT:H192	1.98	0.45
29:1R:308:CLA:H3A	29:1R:308:CLA:HBA2	1.64	0.45
6:1a:334:ARG:HG3	18:1o:157:LEU:HB2	1.98	0.45
7:1b:166:ILE:HG12	7:1b:181:VAL:HG21	1.98	0.45
7:1b:272:ARG:NH1	9:1d:165:GLN:OE1	2.47	0.45
7:1b:285:TYR:HA	7:1b:288:VAL:HG12	1.99	0.45
41:1b:621:SQD:H212	33:1b:628:LHG:H362	1.98	0.45
8:1c:250:TRP:O	8:1c:254:THR:OG1	2.34	0.45
18:1o:163:GLY:HA2	18:1o:191:LYS:HG3	1.98	0.45
19:1p:160:LYS:HZ3	19:1p:162:GLN:HG2	1.81	0.45
2:07:128:LEU:HD13	2:07:128:LEU:HA	1.90	0.45
7:1B:33:TRP:CD1	35:1B:630:BCR:H381	2.52	0.45
29:1B:606:CLA:H12	29:1B:607:CLA:H62	1.98	0.45
35:1B:617:BCR:H313	17:1M:6:LEU:HD21	1.98	0.45
11:1F:23:PRO:HA	11:1F:26:PHE:HB3	1.99	0.45
1:1G:209:LEU:HD13	31:1G:615:LUT:H163	1.99	0.45
35:1H:101:BCR:H393	26:1X:47:LEU:HD13	1.99	0.45
41:1L:102:SQD:H111	41:1L:102:SQD:H81	1.81	0.45
6:1a:106:LEU:HD11	35:1a:409:BCR:H402	1.98	0.45
6:1a:286:THR:OG1	29:1a:405:CLA:O1D	2.26	0.45
43:1c:501:LNL:H141	29:1c:508:CLA:HHD	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1c:517:SQD:H262	34:1c:519:DGD:HG31	1.99	0.45
11:1f:39:ARG:NH2	19:1p:16:THR:OG1	2.50	0.45
18:1o:55:PRO:HA	18:1o:240:GLY:HA3	1.99	0.45
19:1p:96:LYS:HD3	19:1p:96:LYS:HA	1.72	0.45
1:00:205:PRO:HA	1:00:208:ASN:ND2	2.32	0.45
30:01:306:CHL:HBC2	29:01:308:CLA:HBC1	1.98	0.45
29:1B:601:CLA:H193	34:1B:625:DGD:HAH2	1.98	0.45
8:1C:362:ARG:N	34:1C:516:DGD:O3E	2.43	0.45
9:1D:196:PRO:O	9:1D:200:MET:HG3	2.16	0.45
18:1O:110:ASP:HB3	18:1O:131:LYS:HG2	1.99	0.45
21:1S:61:PRO:HD2	31:1S:318:LUT:H23	1.98	0.45
28:1Z:22:SER:HA	28:1Z:25:LEU:HD12	1.98	0.45
7:1b:136:PRO:HB3	7:1b:221:PRO:HG2	1.98	0.45
17:1m:21:PHE:O	17:1m:25:ILE:HG12	2.17	0.45
21:1s:55:GLY:HA3	21:1s:190:ILE:HD11	1.98	0.45
1:02:112:TYR:HB3	1:02:118:LEU:HD12	1.99	0.44
29:03:301:CLA:H41	29:03:301:CLA:H61	1.77	0.44
1:06:60:LYS:O	1:06:64:LEU:HG	2.17	0.44
1:06:208:ASN:O	1:06:212:HIS:ND1	2.50	0.44
2:07:197:LEU:HD22	31:07:313:LUT:H203	1.98	0.44
6:1A:72:LEU:HD23	33:1b:625:LHG:HC42	2.00	0.44
29:1C:512:CLA:H42	35:1Z:101:BCR:H382	1.97	0.44
34:1C:516:DGD:HBW2	34:1C:516:DGD:HBN1	1.56	0.44
46:1G:617:XAT:H11	46:1G:617:XAT:H191	1.62	0.44
1:1N:77:LEU:HG	29:1N:313:CLA:HAB	1.99	0.44
1:1N:126:ALA:HB3	30:1N:306:CHL:HMC	1.99	0.44
22:1T:9:LEU:O	22:1T:13:THR:OG1	2.33	0.44
24:1V:92:THR:O	24:1V:96:ILE:HG22	2.17	0.44
35:1Z:101:BCR:H11C	35:1Z:101:BCR:H341	1.86	0.44
6:1a:246:TYR:HE1	6:1a:248:ILE:HB	1.82	0.44
6:1a:315:ASN:OD1	19:1p:52:ASN:ND2	2.41	0.44
7:1b:156:PHE:HD1	7:1b:161:LEU:HD23	1.80	0.44
1:1n:73:MET:SD	29:1n:610:CLA:HHC	2.57	0.44
18:1o:180:GLY:O	18:1o:189:ASN:ND2	2.49	0.44
18:1o:212:GLY:HA3	18:1o:247:GLU:HB3	1.99	0.44
26:1x:62:GLY:O	26:1x:66:VAL:HG12	2.17	0.44
28:1z:3:ILE:O	28:1z:7:LEU:HD13	2.17	0.44
1:00:80:VAL:O	1:00:84:LEU:N	2.36	0.44
1:00:162:ASP:OD1	31:00:313:LUT:O23	2.27	0.44
29:01:307:CLA:HMB2	29:01:311:CLA:HBA2	1.99	0.44
3:08:197:GLU:HA	3:08:200:GLN:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1B:619:BCR:H15C	35:1B:619:BCR:H351	1.83	0.44
9:1D:214:ILE:O	9:1D:218:THR:OG1	2.26	0.44
16:1L:22:LEU:HB3	22:1T:16:ILE:HD12	1.97	0.44
1:1N:195:PHE:O	1:1N:199:ILE:HG13	2.18	0.44
33:1N:318:LHG:H181	33:1S:303:LHG:H321	1.98	0.44
18:1O:48:MET:HB3	18:1O:246:LEU:HA	1.98	0.44
20:1R:54:ASP:OD1	20:1R:54:ASP:N	2.49	0.44
21:1S:87:LEU:HD23	31:1S:317:LUT:H402	1.98	0.44
21:1S:111:TRP:HD1	31:1S:318:LUT:H41	1.82	0.44
21:1S:183:ALA:HA	21:1S:186:LYS:HG2	1.98	0.44
24:1V:52:PHE:HB3	24:1V:56:TYR:CD1	2.52	0.44
33:1a:413:LHG:H131	33:1a:413:LHG:H102	1.40	0.44
7:1b:469:HIS:HE1	29:1b:612:CLA:NA	2.14	0.44
8:1c:154:ARG:HB3	8:1c:256:PRO:HG2	1.99	0.44
8:1c:318:LEU:HD13	8:1c:351:PHE:HE1	1.83	0.44
20:1r:33:GLY:N	29:1r:302:CLA:OBD	2.40	0.44
33:00:316:LHG:H311	33:00:316:LHG:HC91	1.99	0.44
1:01:97:TRP:CZ3	1:01:99:LYS:HB2	2.52	0.44
1:01:130:VAL:O	1:01:134:LEU:HD12	2.17	0.44
2:07:82:MET:HE2	2:07:82:MET:HB2	1.89	0.44
8:1C:40:ALA:HB2	29:1C:507:CLA:H2A	1.98	0.44
1:1N:110:LEU:HD13	30:1N:307:CHL:HHD	1.99	0.44
6:1a:120:LEU:HA	6:1a:123:VAL:HG22	2.00	0.44
7:1b:221:PRO:HG3	29:1b:610:CLA:HED3	1.98	0.44
1:1n:136:GLY:HA2	30:1n:609:CHL:HAB	2.00	0.44
19:1p:54:ASP:OD2	19:1p:167:ARG:NH1	2.51	0.44
21:1s:165:HIS:ND1	29:1s:312:CLA:O1D	2.51	0.44
21:1s:218:LEU:HB2	31:1s:317:LUT:H22	2.00	0.44
29:1s:312:CLA:CBB	31:1s:317:LUT:H32	2.46	0.44
1:01:99:LYS:HD3	1:01:99:LYS:HA	1.49	0.44
2:03:86:LEU:HD21	31:03:313:LUT:H401	1.99	0.44
1:06:185:ARG:NH2	29:06:607:CLA:O2D	2.50	0.44
6:1A:292:THR:HA	8:1C:428:THR:HG22	1.99	0.44
29:1B:603:CLA:H51	29:1B:616:CLA:H42	2.00	0.44
9:1D:44:PHE:HD2	9:1D:114:PHE:HZ	1.66	0.44
40:1E:102:PL9:H362	40:1E:102:PL9:H321	1.67	0.44
20:1R:201:HIS:CE1	29:1R:309:CLA:NA	2.85	0.44
29:1R:307:CLA:CAB	31:1R:315:LUT:H32	2.47	0.44
21:1S:40:LEU:HD23	34:1S:320:DGD:HE4	1.99	0.44
7:1b:108:PHE:O	7:1b:112:ILE:HG13	2.18	0.44
29:1b:612:CLA:HAB	29:1b:614:CLA:HHB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1c:516:BCR:H371	35:1c:516:BCR:H24C	1.81	0.44
14:1j:23:GLY:O	14:1j:27:VAL:HG23	2.18	0.44
24:1v:100:GLY:O	24:1v:104:VAL:HG23	2.18	0.44
33:00:317:LHG:HC91	25:1W:21:LEU:HB2	1.98	0.44
29:00:318:CLA:H111	29:00:318:CLA:H72	1.82	0.44
2:03:78:GLY:O	2:03:82:MET:HG3	2.17	0.44
1:06:81:PHE:O	1:06:85:LEU:N	2.50	0.44
3:08:19:PHE:HB3	3:08:20:ILE:H	1.57	0.44
6:1A:84:PRO:HB2	6:1A:169:SER:HA	2.00	0.44
6:1A:160:ILE:HD11	34:1C:516:DGD:HBW1	1.98	0.44
8:1C:91:HIS:NE2	29:1C:502:CLA:O1D	2.41	0.44
9:1D:75:LEU:HA	9:1D:176:VAL:HB	1.99	0.44
13:1I:13:ILE:O	13:1I:14:PHE:C	2.61	0.44
20:1R:193:ARG:HA	20:1R:196:LEU:HG	2.00	0.44
29:1R:306:CLA:HBC1	46:1R:316:XAT:H393	1.98	0.44
29:1S:310:CLA:HBB1	29:1S:310:CLA:HHC	1.99	0.44
24:1V:34:LYS:HE2	24:1V:34:LYS:HB2	1.85	0.44
27:1Y:20:LEU:O	27:1Y:24:LEU:HB2	2.17	0.44
6:1a:259:ILE:HG23	40:1a:412:PL9:H253	1.99	0.44
7:1b:307:GLU:O	7:1b:311:PHE:HB2	2.17	0.44
7:1b:464:PHE:HD2	29:1b:612:CLA:HAC2	1.81	0.44
9:1d:228:ASP:N	24:1v:48:GLY:O	2.51	0.44
11:1f:30:SER:O	11:1f:34:MET:HG2	2.17	0.44
30:1g:606:CHL:HMB2	30:1g:609:CHL:HMC	1.99	0.44
1:1n:63:GLU:O	1:1n:67:ILE:HG12	2.17	0.44
30:00:307:CHL:H62	30:00:307:CHL:H41	1.59	0.44
1:09:24:TYR:HA	1:09:44:TYR:HD2	1.82	0.44
29:1B:609:CLA:H2	29:1B:609:CLA:H61	1.66	0.44
42:1B:624:MGE:H2A1	41:1D:412:SQD:H142	2.00	0.44
8:1C:154:ARG:O	8:1C:158:THR:OG1	2.32	0.44
9:1D:290:LEU:HD23	9:1D:290:LEU:HA	1.82	0.44
31:1G:616:LUT:H171	31:1G:616:LUT:H8	1.98	0.44
6:1a:127:MET:SD	6:1a:148:SER:HB3	2.58	0.44
7:1b:174:LEU:HD21	7:1b:309:LEU:HB2	1.99	0.44
10:1e:51:ARG:NH1	19:1p:4:GLU:O	2.51	0.44
12:1h:48:ALA:O	12:1h:52:VAL:HG23	2.18	0.44
20:1r:154:VAL:O	20:1r:158:ILE:HG12	2.17	0.44
40:1r:301:PL9:H23	40:1r:301:PL9:H272	1.70	0.44
30:01:305:CHL:H3A	30:01:305:CHL:HBA1	1.57	0.44
35:04:313:BCR:H11C	35:04:313:BCR:H341	1.89	0.44
1:09:46:TRP:HZ3	29:09:301:CLA:HBC2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:09:139:GLU:HG3	30:09:308:CHL:C4B	2.47	0.44
8:1C:178:LYS:NZ	8:1C:182:PHE:O	2.43	0.44
9:1D:142:TYR:HB3	9:1D:273:LEU:HD11	1.99	0.44
1:1G:142:ARG:NH2	30:1G:609:CHL:O1D	2.50	0.44
30:1N:310:CHL:H203	30:1N:310:CHL:H161	1.78	0.44
18:1O:152:ARG:HB2	18:1O:228:LEU:HG	2.00	0.44
6:1a:218:LEU:HD21	6:1a:254:TYR:HD2	1.83	0.44
6:1a:231:GLU:O	7:1b:7:ARG:NH1	2.51	0.44
8:1c:352:GLY:O	8:1c:355:THR:OG1	2.36	0.44
9:1d:186:PHE:CE2	9:1d:290:LEU:HD13	2.51	0.44
1:1g:24:TYR:HB2	30:1g:601:CHL:C4D	2.48	0.44
20:1r:155:ILE:HD13	20:1r:158:ILE:HD11	1.99	0.44
31:1s:318:LUT:H171	31:1s:318:LUT:H7	1.61	0.44
42:1s:320:MGE:H1G2	42:1s:320:MGE:H2A1	1.36	0.44
1:00:204:GLY:O	1:00:205:PRO:C	2.58	0.44
1:05:82:PRO:HA	1:05:85:LEU:HD12	2.00	0.44
35:1A:409:BCR:H11C	35:1A:409:BCR:H341	1.85	0.44
7:1B:30:VAL:HG22	29:1B:611:CLA:C2C	2.47	0.44
7:1B:67:THR:HG23	7:1B:267:LEU:HD13	1.98	0.44
7:1B:201:HIS:HA	29:1B:601:CLA:C4B	2.48	0.44
29:1B:610:CLA:CMB	29:1B:612:CLA:HBB1	2.48	0.44
8:1C:346:THR:OG1	8:1C:348:GLU:OE1	2.30	0.44
33:1C:525:LHG:HC61	33:1C:525:LHG:H241	1.76	0.44
10:1E:26:THR:HB	45:1E:103:HEM:HAB	2.00	0.44
13:1I:5:LYS:HG2	25:1W:22:LEU:HD21	2.00	0.44
1:1N:61:ASN:HA	1:1N:64:LEU:HD12	1.99	0.44
1:1N:131:GLN:HG3	30:1N:307:CHL:HMA2	2.00	0.44
46:1R:316:XAT:H201	46:1R:316:XAT:H15	1.51	0.44
7:1b:357:ARG:NH2	9:1d:338:GLU:OE1	2.49	0.44
8:1c:56:HIS:HE1	29:1c:512:CLA:C4B	2.30	0.44
1:1n:197:GLN:HB3	29:1n:613:CLA:C1D	2.48	0.44
24:1v:58:ALA:HB1	24:1v:62:GLY:HA3	2.00	0.44
1:00:189:PHE:HD1	29:00:318:CLA:CBB	2.31	0.44
1:00:190:SER:HA	29:00:318:CLA:HBB1	1.99	0.44
1:01:142:ARG:NH1	30:01:306:CHL:O1D	2.51	0.44
1:09:180:GLU:HB3	29:09:309:CLA:C2B	2.47	0.44
7:1B:45:PHE:HD1	7:1B:60:MET:HE3	1.83	0.44
7:1B:299:SER:O	7:1B:303:SER:OG	2.28	0.44
8:1C:37:ALA:HA	29:1C:507:CLA:HAA1	2.00	0.44
29:1C:512:CLA:H61	29:1C:512:CLA:H41	1.77	0.44
9:1D:247:MET:SD	9:1D:265:LYS:HG3	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1D:345:GLU:H	9:1D:345:GLU:HG3	1.65	0.44
9:1D:347:LEU:HD23	9:1D:347:LEU:HA	1.76	0.44
20:1R:210:LEU:HB3	29:1R:310:CLA:HBC2	1.99	0.44
6:1a:183:MET:HB3	29:1a:405:CLA:CHD	2.48	0.44
6:1a:245:THR:OG1	6:1a:246:TYR:N	2.51	0.44
33:1a:413:LHG:H331	33:1a:413:LHG:H161	2.00	0.44
7:1b:24:ILE:HG12	29:1b:616:CLA:HED2	2.00	0.44
7:1b:57:ARG:HD2	7:1b:330:MET:HE2	1.99	0.44
8:1c:273:SER:HA	8:1c:276:LEU:HD12	2.00	0.44
8:1c:350:ILE:HG21	8:1c:359:TRP:HB2	2.00	0.44
10:1e:25:ILE:HD11	27:1y:18:TRP:CD1	2.52	0.44
13:1i:27:ASP:HA	13:1i:30:ARG:HG2	2.00	0.44
29:1n:602:CLA:CBB	31:1n:615:LUT:H32	2.48	0.44
18:1o:51:PHE:HE1	18:1o:53:LEU:HG	1.83	0.44
30:00:307:CHL:H143	30:00:307:CHL:H161	1.85	0.43
3:08:62:MET:HA	3:08:65:VAL:HG22	1.98	0.43
6:1A:230:ASN:N	6:1A:230:ASN:OD1	2.50	0.43
29:1B:609:CLA:HAB	29:1B:611:CLA:HHB	2.00	0.43
29:1C:510:CLA:H71	28:1Z:24:PRO:HB3	1.98	0.43
15:1K:45:VAL:O	15:1K:48:PHE:HB3	2.18	0.43
9:1d:79:VAL:HG22	9:1d:174:PHE:HB2	2.00	0.43
46:1g:617:XAT:H191	46:1g:617:XAT:H11	1.65	0.43
35:1k:102:BCR:H24C	35:1k:102:BCR:H371	1.81	0.43
18:1o:54:GLU:OE2	25:1w:1:LEU:N	2.36	0.43
28:1z:14:VAL:O	28:1z:18:VAL:HG12	2.18	0.43
1:00:164:LEU:HD23	33:1W:101:LHG:HC42	2.00	0.43
29:00:310:CLA:HBA1	33:1C:520:LHG:HC5	1.99	0.43
29:01:308:CLA:H11	29:01:308:CLA:H51	1.83	0.43
1:05:178:VAL:HA	1:05:181:ILE:HG12	2.00	0.43
1:05:188:MET:HA	1:05:191:MET:HG3	2.00	0.43
3:08:43:ASP:O	3:08:47:LEU:N	2.44	0.43
8:1C:53:HIS:HE1	29:1C:508:CLA:NC	2.08	0.43
9:1D:75:LEU:HD23	9:1D:176:VAL:HG21	2.00	0.43
1:1G:84:LEU:HD23	1:1G:84:LEU:HA	1.89	0.43
20:1R:160:PHE:HA	29:1R:314:CLA:HBC1	1.99	0.43
6:1a:300:PHE:HE2	34:1c:520:DGD:HA62	1.83	0.43
7:1b:41:GLU:HB3	7:1b:60:MET:SD	2.58	0.43
29:1b:608:CLA:H42	41:1b:621:SQD:H102	1.99	0.43
35:1b:618:BCR:H323	33:1b:626:LHG:H262	1.99	0.43
9:1d:75:LEU:HA	9:1d:176:VAL:HB	2.00	0.43
20:1r:206:MET:HG3	29:1r:302:CLA:HMC2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1v:84:ALA:O	24:1v:88:LEU:HD12	2.18	0.43
1:00:94:GLU:HB2	1:00:103:GLN:HB3	2.00	0.43
1:00:145:GLY:HA2	30:00:307:CHL:HMC	1.99	0.43
30:01:306:CHL:H142	29:01:308:CLA:H111	2.00	0.43
29:02:610:CLA:HHC	29:02:610:CLA:HBB1	1.98	0.43
2:03:193:LYS:HD2	2:03:193:LYS:HA	1.89	0.43
29:05:301:CLA:CBB	31:05:314:LUT:H32	2.48	0.43
1:09:63:GLU:O	1:09:67:ILE:HG12	2.18	0.43
7:1B:481:GLY:C	9:1D:140:ARG:HH12	2.26	0.43
10:1E:67:THR:O	23:1U:132:HIS:ND1	2.51	0.43
40:1E:102:PL9:H18	11:1F:25:VAL:CG1	2.44	0.43
18:1O:120:GLY:HA2	7:1b:78:TRP:HD1	1.82	0.43
21:1S:118:LEU:HD23	21:1S:118:LEU:HA	1.87	0.43
31:1S:317:LUT:H15	31:1S:317:LUT:H201	1.91	0.43
6:1a:192:ILE:H	6:1a:192:ILE:HD12	1.82	0.43
6:1a:288:LEU:HD13	8:1c:432:VAL:HG22	1.99	0.43
40:1a:412:PL9:H361	40:1a:412:PL9:H322	1.70	0.43
7:1b:299:SER:O	7:1b:303:SER:OG	2.31	0.43
29:1b:610:CLA:C3D	12:1h:43:MET:HB2	2.49	0.43
41:1d:405:SQD:H462	41:1d:405:SQD:H271	2.00	0.43
12:1h:26:LEU:HD23	20:1r:81:GLN:HG3	2.00	0.43
17:1m:25:ILE:O	17:1m:29:THR:OG1	2.32	0.43
1:1n:20:ASP:OD1	1:1n:20:ASP:N	2.43	0.43
1:00:142:ARG:NH1	30:00:308:CHL:O1D	2.50	0.43
29:04:309:CLA:HBD	29:04:309:CLA:HBA2	2.01	0.43
31:05:314:LUT:H11	31:05:314:LUT:H191	1.72	0.43
1:06:231:GLY:HA2	2:07:213:GLY:HA3	2.00	0.43
2:07:152:ARG:HH22	30:07:311:CHL:C4D	2.31	0.43
2:07:173:ASP:HA	31:07:313:LUT:H23	2.00	0.43
3:08:109:GLU:OE1	3:08:112:ARG:NH1	2.52	0.43
7:1B:23:HIS:HE1	29:1B:610:CLA:C4D	2.31	0.43
7:1B:31:SER:HB3	7:1B:104:SER:HB2	2.00	0.43
7:1B:426:LEU:HD13	7:1B:443:PHE:HZ	1.83	0.43
29:1B:612:CLA:H203	35:1B:617:BCR:H343	2.01	0.43
29:1B:612:CLA:HBC2	41:1m:101:SQD:H292	2.01	0.43
8:1C:318:LEU:HD12	8:1C:340:TYR:HB3	1.99	0.43
9:1D:244:THR:OG1	9:1D:245:TYR:N	2.50	0.43
19:1P:108:VAL:HG13	19:1P:136:ALA:HB3	2.00	0.43
19:1P:113:ILE:HG12	19:1P:131:VAL:HG22	2.00	0.43
29:1R:302:CLA:H61	29:1R:302:CLA:H41	1.58	0.43
21:1S:41:ASP:OD2	21:1S:43:SER:OG	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1W:44:LEU:HB3	25:1W:46:GLU:HG2	2.00	0.43
9:1d:181:ARG:NH1	9:1d:334:ASP:OD2	2.50	0.43
29:1d:406:CLA:H41	29:1d:406:CLA:H62	1.80	0.43
30:1n:601:CHL:H71	30:1n:601:CHL:H111	1.82	0.43
29:1n:602:CLA:HBB1	31:1n:615:LUT:H32	1.99	0.43
26:1x:55:LEU:O	26:1x:59:VAL:HG23	2.18	0.43
1:00:197:GLN:O	1:00:198:ALA:C	2.61	0.43
3:04:153:ASP:N	3:04:153:ASP:OD1	2.51	0.43
1:06:87:ARG:HA	1:06:90:VAL:O	2.18	0.43
3:08:182:LYS:HD2	29:08:309:CLA:C4D	2.49	0.43
33:09:318:LHG:H271	33:09:318:LHG:H152	1.99	0.43
1:17:215:ASP:O	1:17:217:VAL:N	2.52	0.43
7:1B:464:PHE:CZ	33:1D:408:LHG:H252	2.52	0.43
29:1B:610:CLA:H62	29:1B:610:CLA:H101	1.75	0.43
40:1E:102:PL9:H212	11:1F:28:LEU:CD1	2.48	0.43
1:1G:36:LEU:HD11	1:1G:47:ASP:HB2	2.00	0.43
1:1G:42:GLY:HA3	1:1G:181:ILE:HD11	1.99	0.43
1:1N:96:VAL:HB	1:1N:99:LYS:HB2	2.01	0.43
29:1N:304:CLA:HBC1	30:1N:310:CHL:HAC2	1.99	0.43
20:1R:100:GLY:O	20:1R:104:MET:HG3	2.19	0.43
33:1S:303:LHG:HC81	33:1S:303:LHG:HC5	1.65	0.43
22:1T:12:SER:O	22:1T:16:ILE:HG12	2.19	0.43
7:1b:162:TYR:HE1	33:1b:623:LHG:HC42	1.83	0.43
33:1b:628:LHG:H172	40:1d:410:PL9:H201	1.99	0.43
8:1c:118:HIS:HE1	29:1c:505:CLA:C4A	2.31	0.43
9:1d:133:LEU:O	9:1d:137:VAL:HG22	2.18	0.43
9:1d:217:ALA:O	9:1d:221:ASN:HB2	2.18	0.43
9:1d:234:ARG:O	24:1v:59:ASN:ND2	2.32	0.43
1:1g:60:LYS:HA	1:1g:63:GLU:HG2	1.99	0.43
35:1j:101:BCR:HC31	28:1z:13:ILE:HD13	1.99	0.43
1:00:217:VAL:HG13	32:00:315:VIV:H143	1.99	0.43
6:1A:216:GLY:O	6:1A:220:THR:OG1	2.33	0.43
6:1A:286:THR:HG22	29:1A:404:CLA:O1D	2.18	0.43
40:1A:410:PL9:H121	40:1A:410:PL9:H101	1.82	0.43
35:1B:617:BCR:H11C	35:1B:617:BCR:H341	1.80	0.43
35:1B:619:BCR:H341	35:1B:619:BCR:H11C	1.70	0.43
8:1C:45:LEU:HG	8:1C:138:GLU:HB2	2.01	0.43
10:1E:28:PRO:CG	40:1E:102:PL9:H301	2.48	0.43
1:1N:125:LEU:HB2	33:1N:318:LHG:H271	2.00	0.43
29:1N:304:CLA:HBC3	31:1N:316:LUT:H203	2.01	0.43
46:1R:316:XAT:H191	46:1R:316:XAT:H11	1.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1S:231:LEU:HB2	41:1S:302:SQD:H1	1.99	0.43
28:1Z:33:TRP:O	28:1Z:37:LYS:HE3	2.19	0.43
7:1b:497:LYS:HB3	7:1b:500:ASP:HB3	2.00	0.43
8:1c:53:HIS:HD2	29:1c:511:CLA:C4A	2.32	0.43
29:1c:506:CLA:C1D	34:1c:519:DGD:HB21	2.48	0.43
9:1d:21:ASP:OD1	26:1x:83:ARG:NH2	2.45	0.43
1:1g:127:ILE:HB	30:1g:605:CHL:HAC1	2.00	0.43
29:1g:602:CLA:CBB	31:1g:616:LUT:H32	2.49	0.43
35:1j:101:BCR:H282	33:1v:201:LHG:H261	2.00	0.43
18:1o:52:CYS:N	18:1o:243:TYR:O	2.50	0.43
21:1s:145:LEU:HD12	21:1s:145:LEU:HA	1.90	0.43
22:1t:26:PRO:HA	22:1t:27:PRO:HD3	1.91	0.43
6:1A:27:ARG:HB3	41:1A:412:SQD:H442	2.01	0.43
34:1A:414:DGD:HBW1	35:1b:619:BCR:H292	2.01	0.43
29:1B:601:CLA:H41	29:1B:601:CLA:H61	1.54	0.43
29:1B:609:CLA:H62	29:1B:609:CLA:H93	1.82	0.43
8:1C:179:ALA:HA	8:1C:185:ILE:HG13	2.00	0.43
9:1D:62:HIS:NE2	9:1D:81:THR:OG1	2.40	0.43
30:1G:601:CHL:HBA1	30:1G:601:CHL:H3A	1.85	0.43
1:1N:73:MET:O	1:1N:77:LEU:HD12	2.19	0.43
33:1P:201:LHG:H171	24:1V:104:VAL:HG11	2.00	0.43
40:1R:301:PL9:H421	40:1R:301:PL9:H401	1.70	0.43
24:1V:99:GLY:O	24:1V:103:LEU:HG	2.18	0.43
6:1a:218:LEU:HD23	6:1a:218:LEU:HA	1.90	0.43
6:1a:229:GLU:HG2	7:1b:480:ALA:HB2	2.01	0.43
7:1b:392:VAL:HG13	7:1b:397:VAL:HB	1.99	0.43
29:1b:612:CLA:H152	35:1b:619:BCR:H342	2.01	0.43
8:1c:71:GLU:HB3	8:1c:89:LEU:HG	2.00	0.43
8:1c:150:VAL:HG12	8:1c:152:LYS:H	1.83	0.43
1:1n:63:GLU:HA	1:1n:155:LEU:HD21	1.99	0.43
1:1n:179:LYS:HE3	29:1n:612:CLA:HBD	2.00	0.43
31:1r:315:LUT:H35	31:1r:315:LUT:H401	1.88	0.43
33:1s:302:LHG:HC81	30:1s:304:CHL:HMC	2.00	0.43
28:1z:19:LEU:HD12	28:1z:19:LEU:HA	1.86	0.43
1:00:199:ILE:HG12	30:00:306:CHL:H41	2.00	0.43
1:01:97:TRP:CE3	1:01:98:PHE:HB3	2.54	0.43
1:01:169:ASP:OD2	1:01:173:PHE:N	2.41	0.43
1:01:211:ASP:O	1:01:219:ASN:ND2	2.49	0.43
1:06:81:PHE:N	1:06:82:PRO:HD2	2.33	0.43
2:07:145:MET:HB3	30:07:311:CHL:HBB2	2.00	0.43
29:1B:608:CLA:HBD	29:1B:608:CLA:H143	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:1B:623:MGE:H5A1	42:1B:623:MGE:H2A1	1.89	0.43
34:1B:627:DGD:HE1	34:1B:627:DGD:HD5	1.77	0.43
8:1C:117:LEU:O	8:1C:121:SER:OG	2.34	0.43
13:1I:17:SER:HB2	25:1W:33:ILE:HD13	2.00	0.43
20:1R:46:LEU:HA	20:1R:68:THR:HA	2.01	0.43
21:1S:81:HIS:HE1	29:1S:315:CLA:C4D	2.31	0.43
21:1S:94:ILE:H	21:1S:94:ILE:HG13	1.67	0.43
30:1S:304:CHL:H3A	34:1S:320:DGD:HG12	2.00	0.43
28:1Z:58:ASN:HD21	35:1Z:101:BCR:H323	1.83	0.43
6:1a:199:MET:HE1	9:1d:75:LEU:HD13	1.99	0.43
41:1a:410:SQD:O4	24:1v:61:ASP:OD2	2.36	0.43
33:1a:413:LHG:H111	42:1k:101:MGE:H2A2	2.01	0.43
7:1b:298:LEU:O	7:1b:302:TRP:HB2	2.19	0.43
35:1b:619:BCR:H11C	35:1b:619:BCR:H341	1.88	0.43
8:1c:130:ILE:HD11	35:1c:516:BCR:H21C	1.99	0.43
43:1c:501:LNL:H82	33:1c:521:LHG:H223	2.00	0.43
18:1o:185:LEU:O	18:1o:189:ASN:N	2.47	0.43
1:02:96:VAL:HG13	1:02:205:PRO:HD3	2.00	0.43
1:06:69:SER:HB2	1:06:184:GLY:HA3	1.99	0.43
1:09:145:GLY:HA2	30:09:307:CHL:HMC	2.01	0.43
1:09:191:MET:HB3	1:09:195:PHE:CZ	2.54	0.43
7:1B:151:PHE:HZ	34:1B:626:DGD:HE2	1.84	0.43
7:1B:277:GLN:HG2	23:1U:129:LYS:HG3	2.01	0.43
8:1C:286:ALA:HA	8:1C:289:PHE:HB2	2.01	0.43
33:1D:410:LHG:H241	33:1D:410:LHG:H272	1.83	0.43
45:1E:103:HEM:HMA1	27:1Y:23:ILE:HG21	2.01	0.43
1:1G:184:GLY:O	1:1G:188:MET:HG3	2.19	0.43
16:1L:23:LEU:HD12	16:1L:23:LEU:HA	1.89	0.43
28:1Z:16:SER:HB3	28:1Z:47:TRP:HE1	1.83	0.43
28:1Z:38:ASN:O	28:1Z:42:SER:OG	2.25	0.43
6:1a:233:ALA:HB2	33:1d:401:LHG:HC11	2.01	0.43
40:1a:412:PL9:C43	11:1f:16:ALA:HA	2.48	0.43
20:1r:54:ASP:OD1	20:1r:55:GLN:N	2.52	0.43
21:1s:61:PRO:HD2	31:1s:318:LUT:H23	2.01	0.43
21:1s:184:LEU:HD11	29:1s:313:CLA:HED1	2.00	0.43
1:01:91:LYS:HA	1:01:91:LYS:HD2	1.87	0.43
1:01:143:ILE:O	2:03:40:GLN:NE2	2.52	0.43
30:02:604:CHL:H3A	30:02:606:CHL:HMA1	1.99	0.43
6:1A:27:ARG:NH2	22:1T:21:ILE:O	2.52	0.43
8:1C:357:ARG:H	8:1C:357:ARG:HG2	1.65	0.43
40:1E:102:PL9:H172	40:1E:102:PL9:H151	1.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:1E:102:PL9:H353	33:1P:201:LHG:H381	2.01	0.43
17:1M:13:LEU:HD13	17:1m:16:LEU:HD11	2.00	0.43
17:1M:15:ILE:HD11	22:1T:9:LEU:HD21	2.01	0.43
1:1N:131:GLN:NE2	30:1N:308:CHL:HMC	2.30	0.43
6:1a:231:GLU:HA	7:1b:4:PRO:HD3	2.00	0.43
8:1c:165:LEU:HG	29:1c:509:CLA:HED1	2.01	0.43
29:1c:505:CLA:H143	29:1c:505:CLA:H161	1.76	0.43
9:1d:264:ASN:HB3	9:1d:267:TRP:HB3	2.01	0.43
10:1e:24:SER:OG	24:1v:89:TRP:NE1	2.45	0.43
1:1g:164:LEU:HD13	31:1g:615:LUT:H222	1.99	0.43
13:1i:23:PHE:HB3	35:1i:101:BCR:HC22	2.01	0.43
35:1k:102:BCR:H323	28:1z:55:ALA:HA	2.00	0.43
1:1n:190:SER:HB2	29:1n:613:CLA:HBB2	2.01	0.43
1:1n:195:PHE:CD2	29:1n:603:CLA:HBB2	2.53	0.43
29:09:301:CLA:H52	31:09:314:LUT:H28	2.00	0.42
29:1B:605:CLA:OBD	42:1B:623:MGE:O2D	2.34	0.42
35:1B:630:BCR:H351	35:1B:630:BCR:H15C	1.79	0.42
8:1C:328:VAL:HG13	8:1C:340:TYR:HB2	1.99	0.42
8:1C:402:GLY:HA3	8:1C:420:VAL:HG22	1.99	0.42
9:1D:202:VAL:HG22	29:1D:404:CLA:C1B	2.49	0.42
13:1I:23:PHE:HB3	35:1I:102:BCR:HC22	2.01	0.42
35:1I:102:BCR:H11C	35:1I:102:BCR:H341	1.91	0.42
21:1S:231:LEU:H	21:1S:231:LEU:HG	1.64	0.42
29:1b:609:CLA:H62	41:1b:622:SQD:H301	2.00	0.42
9:1d:37:LEU:HD11	9:1d:121:PHE:HB3	2.00	0.42
20:1r:147:LEU:O	20:1r:151:GLU:HB2	2.18	0.42
21:1s:111:TRP:CD1	31:1s:318:LUT:H21	2.53	0.42
21:1s:165:HIS:CE1	21:1s:186:LYS:HG2	2.54	0.42
1:00:72:ALA:HB1	1:00:191:MET:CG	2.49	0.42
32:00:315:VIV:H141	32:00:315:VIV:H161	1.85	0.42
6:1A:64:ARG:HA	6:1A:64:ARG:HD3	1.89	0.42
7:1B:315:ILE:HG13	7:1B:321:LYS:HG3	2.01	0.42
29:1B:609:CLA:H142	33:1L:101:LHG:H383	2.00	0.42
1:1G:193:GLY:O	1:1G:197:GLN:HG2	2.19	0.42
19:1P:18:PHE:CE2	19:1P:178:SER:HB2	2.53	0.42
20:1R:108:LEU:O	20:1R:112:SER:OG	2.30	0.42
22:1T:1:MET:HB2	33:1b:626:LHG:HC61	2.01	0.42
6:1a:190:HIS:HB3	6:1a:293:MET:HB3	2.01	0.42
6:1a:219:VAL:HG21	9:1d:269:HIS:CG	2.55	0.42
6:1a:297:LEU:HB2	8:1c:428:THR:HG21	2.00	0.42
29:1b:612:CLA:H141	33:1b:628:LHG:H382	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1b:620:BCR:HC7	35:1b:620:BCR:H321	1.85	0.42
8:1c:131:TYR:O	8:1c:136:GLY:N	2.48	0.42
8:1c:215:LYS:HB3	8:1c:223:TRP:HA	2.00	0.42
9:1d:86:LEU:HD21	9:1d:108:LEU:HD22	1.99	0.42
9:1d:157:VAL:HG22	9:1d:172:PRO:HG3	2.01	0.42
29:1d:403:CLA:HBB1	29:1d:403:CLA:HHC	2.01	0.42
10:1e:77:ASP:O	10:1e:81:ARG:HG2	2.19	0.42
1:1g:83:GLU:HA	1:1g:86:ALA:HB3	2.01	0.42
29:1g:603:CLA:HMD3	30:1g:609:CHL:HBA2	2.00	0.42
1:1n:66:VAL:O	1:1n:70:ARG:HG2	2.19	0.42
1:1n:124:ILE:H	1:1n:124:ILE:HG13	1.64	0.42
20:1r:224:LEU:HD23	20:1r:224:LEU:HA	1.86	0.42
29:1s:312:CLA:H93	31:1s:317:LUT:H371	2.01	0.42
1:00:209:LEU:HD23	1:00:209:LEU:HA	1.87	0.42
31:00:314:LUT:H35	31:00:314:LUT:H401	1.92	0.42
35:04:313:BCR:H24C	35:04:313:BCR:H21C	1.79	0.42
1:05:197:GLN:O	1:05:201:THR:OG1	2.34	0.42
6:1A:237:TYR:HE1	6:1A:241:GLN:HG2	1.84	0.42
7:1B:18:ARG:HD2	7:1B:18:ARG:HA	1.84	0.42
10:1E:70:PHE:HZ	12:1H:63:SER:HB3	1.84	0.42
20:1R:124:ALA:HA	20:1R:127:VAL:HG12	2.01	0.42
28:1Z:12:LEU:HG	35:1Z:102:BCR:H342	2.00	0.42
6:1a:136:ARG:NH1	13:1i:27:ASP:OD1	2.42	0.42
35:1a:409:BCR:H311	35:1a:409:BCR:HC7	1.81	0.42
40:1a:412:PL9:HC8	40:1a:412:PL9:H121	1.77	0.42
7:1b:208:LEU:HD13	29:1b:602:CLA:H192	2.00	0.42
35:1b:619:BCR:H392	35:1b:619:BCR:H24C	1.81	0.42
12:1h:71:LEU:HB3	12:1h:72:MET:HE2	2.00	0.42
25:1w:29:VAL:O	25:1w:33:ILE:HD12	2.19	0.42
34:00:320:DGD:HG31	33:00:321:LHG:HC81	2.00	0.42
29:02:614:CLA:HBA2	29:02:614:CLA:HBD	2.01	0.42
3:04:56:ILE:HG23	30:04:303:CHL:HED2	2.00	0.42
30:05:315:CHL:HBB2	29:06:602:CLA:HAC2	2.00	0.42
2:07:155:GLY:HA2	2:07:161:ASP:HA	2.01	0.42
1:09:197:GLN:HG2	29:09:317:CLA:C4D	2.48	0.42
6:1A:288:LEU:HD23	6:1A:288:LEU:HA	1.78	0.42
29:1B:604:CLA:H52	35:1B:619:BCR:H342	2.02	0.42
41:1B:622:SQD:O4	18:1o:120:GLY:O	2.34	0.42
29:1C:507:CLA:H112	29:1C:507:CLA:H71	1.95	0.42
9:1D:52:GLY:HA2	9:1D:56:VAL:HB	2.01	0.42
9:1D:198:HIS:HE1	29:1D:404:CLA:C1C	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1L:13:LEU:HG	16:1L:17:SER:HB2	2.01	0.42
1:1N:127:ILE:HG12	30:1N:306:CHL:HAC1	2.01	0.42
21:1S:86:MET:HE2	21:1S:192:ASN:HB3	2.01	0.42
24:1V:64:SER:O	24:1V:64:SER:OG	2.34	0.42
29:1b:612:CLA:H101	29:1b:614:CLA:H51	2.02	0.42
9:1d:196:PRO:HA	9:1d:199:MET:HE2	2.01	0.42
10:1e:14:ILE:HD11	40:1e:101:PL9:C10	2.49	0.42
14:1j:12:LEU:O	14:1j:16:VAL:HG23	2.19	0.42
1:1n:69:SER:O	1:1n:73:MET:HG3	2.20	0.42
1:1n:212:HIS:CD2	29:1n:614:CLA:NC	2.87	0.42
21:1s:232:THR:HG23	41:1s:301:SQD:H3	2.01	0.42
1:01:221:ALA:N	29:01:312:CLA:O1A	2.52	0.42
29:01:301:CLA:CAB	31:01:315:LUT:H34	2.49	0.42
1:05:97:TRP:HD1	1:05:205:PRO:HD3	1.85	0.42
33:09:318:LHG:H122	30:1n:609:CHL:H43	2.00	0.42
6:1A:143:ILE:HD11	9:1D:218:THR:HA	2.01	0.42
7:1B:257:TRP:CZ3	9:1D:292:LEU:HD23	2.54	0.42
8:1C:186:TYR:HA	8:1C:196:VAL:HA	2.01	0.42
9:1D:105:TRP:HA	9:1D:108:LEU:HB2	2.00	0.42
9:1D:222:THR:HG21	9:1D:250:ALA:HB2	2.00	0.42
20:1R:151:GLU:OE2	30:1R:304:CHL:HMC	2.19	0.42
29:1S:305:CLA:CBB	31:1S:318:LUT:H32	2.49	0.42
25:1W:32:LEU:O	25:1W:36:LEU:HD12	2.20	0.42
28:1Z:36:ASN:O	28:1Z:40:VAL:HG22	2.19	0.42
6:1a:79:SER:O	6:1a:79:SER:OG	2.31	0.42
33:1a:413:LHG:HC82	33:1a:413:LHG:HC5	1.73	0.42
35:1b:618:BCR:H15C	35:1b:618:BCR:H351	1.88	0.42
1:00:199:ILE:HG12	30:00:306:CHL:H52	2.02	0.42
1:00:206:LEU:O	1:00:207:GLU:C	2.60	0.42
1:01:97:TRP:CD1	1:01:100:ALA:HB2	2.55	0.42
29:02:613:CLA:HAA2	2:03:135:LEU:HD21	2.01	0.42
1:05:36:LEU:HD23	1:05:36:LEU:HA	1.85	0.42
2:07:202:MET:HA	2:07:205:PHE:HB2	2.01	0.42
6:1A:268:SER:O	6:1A:272:HIS:ND1	2.51	0.42
40:1A:410:PL9:H372	11:1F:16:ALA:HA	2.00	0.42
8:1C:26:ARG:NH2	29:1C:510:CLA:O2A	2.51	0.42
11:1F:30:SER:O	11:1F:34:MET:HG3	2.19	0.42
18:1O:55:PRO:HD2	18:1O:84:TYR:HD1	1.84	0.42
18:1O:80:THR:O	18:1O:83:THR:OG1	2.33	0.42
7:1b:433:ASP:OD2	7:1b:436:THR:OG1	2.30	0.42
19:1p:80:PHE:CE1	19:1p:84:VAL:HG21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:01:308:CLA:H3A	29:01:308:CLA:HBA1	1.72	0.42
1:02:141:TYR:CG	30:02:606:CHL:HMC	2.54	0.42
2:07:94:LEU:HD23	2:07:100:VAL:HG21	2.01	0.42
2:07:116:SER:O	2:07:118:GLY:N	2.52	0.42
1:09:136:GLY:N	30:09:308:CHL:HAB	2.35	0.42
33:09:318:LHG:H102	30:1n:609:CHL:H2	2.01	0.42
6:1A:128:GLY:HA2	6:1A:131:TRP:NE1	2.35	0.42
38:1A:405:PHO:HMB3	29:1D:401:CLA:H71	2.00	0.42
7:1B:485:ASP:OD1	7:1B:485:ASP:N	2.48	0.42
8:1C:163:ILE:O	8:1C:167:LEU:HG	2.19	0.42
8:1C:271:TYR:HA	8:1C:274:TYR:CD2	2.54	0.42
29:1C:508:CLA:H161	29:1C:508:CLA:H141	1.83	0.42
9:1D:321:LEU:HD23	9:1D:321:LEU:HA	1.88	0.42
10:1E:31:PHE:CD2	40:1E:102:PL9:H311	2.54	0.42
11:1F:31:ILE:HA	11:1F:34:MET:HG3	2.00	0.42
1:1N:139:GLU:OE2	1:1N:142:ARG:NH2	2.52	0.42
20:1R:196:LEU:O	20:1R:200:LYS:HG2	2.20	0.42
29:1R:302:CLA:HBC1	33:1R:317:LHG:H271	2.02	0.42
21:1S:31:ARG:H	21:1S:31:ARG:HG3	1.62	0.42
21:1S:220:LYS:HA	21:1S:223:SER:HB3	2.01	0.42
6:1a:160:ILE:HD13	8:1c:431:PHE:CZ	2.54	0.42
6:1a:262:TYR:CD2	33:1e:102:LHG:HC62	2.55	0.42
33:1a:413:LHG:HC2	24:1v:61:ASP:HB3	2.02	0.42
7:1b:355:PHE:CE1	23:1u:120:GLN:HG3	2.55	0.42
29:1b:614:CLA:H62	29:1b:614:CLA:H41	1.80	0.42
29:1c:503:CLA:H102	35:1i:101:BCR:H17C	2.01	0.42
29:1c:508:CLA:HMC1	29:1c:509:CLA:H101	2.00	0.42
9:1d:55:PHE:O	10:1e:49:SER:OG	2.26	0.42
18:1o:129:THR:HG21	18:1o:148:VAL:HA	2.01	0.42
21:1s:57:TYR:HB2	29:1s:305:CLA:HMD1	2.01	0.42
29:01:308:CLA:H101	29:03:301:CLA:H91	2.01	0.42
29:02:614:CLA:HBC2	30:03:304:CHL:HBB2	2.02	0.42
6:1A:37:MET:HB2	6:1A:125:CYS:HB2	2.01	0.42
7:1B:168:VAL:HG13	7:1B:195:PRO:HG3	2.01	0.42
7:1B:255:THR:HG22	12:1H:61:TYR:HE2	1.85	0.42
29:1B:606:CLA:HAB	9:1D:124:ILE:HA	2.01	0.42
29:1B:606:CLA:H143	29:1D:405:CLA:H3A	2.02	0.42
8:1C:50:LEU:O	8:1C:54:VAL:HG12	2.19	0.42
9:1D:223:LEU:H	9:1D:223:LEU:HD12	1.85	0.42
20:1R:101:ARG:NH1	20:1R:172:LEU:O	2.48	0.42
6:1a:97:TRP:CZ3	13:1i:8:VAL:HG11	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1c:40:ALA:HB2	29:1c:510:CLA:H2A	2.00	0.42
35:1c:516:BCR:H24C	35:1c:516:BCR:H392	1.78	0.42
21:1s:159:ASP:OD1	21:1s:159:ASP:N	2.50	0.42
30:1s:308:CHL:HBB2	30:1s:309:CHL:CAB	2.49	0.42
29:00:302:CLA:C1B	30:00:308:CHL:H111	2.50	0.42
33:09:316:LHG:H331	29:09:317:CLA:HAB	2.02	0.42
7:1B:487:ASP:OD1	7:1B:487:ASP:N	2.48	0.42
41:1C:521:SQD:H272	33:1J:102:LHG:H112	2.01	0.42
1:1G:68:HIS:HB3	1:1G:188:MET:SD	2.59	0.42
29:1G:602:CLA:CBB	31:1G:616:LUT:H32	2.49	0.42
13:1I:11:VAL:O	13:1I:12:VAL:C	2.63	0.42
13:1I:16:VAL:O	13:1I:17:SER:C	2.61	0.42
16:1L:24:LEU:O	16:1L:28:LEU:HB2	2.20	0.42
1:1N:77:LEU:HD22	29:1N:305:CLA:HAC1	2.02	0.42
30:1N:306:CHL:HBB1	33:1N:318:LHG:H122	2.02	0.42
6:1a:259:ILE:HG13	40:1a:412:PL9:H203	2.02	0.42
40:1a:412:PL9:HC8	40:1a:412:PL9:HC2	1.70	0.42
33:1a:413:LHG:H121	33:1e:102:LHG:H101	2.01	0.42
29:1b:602:CLA:H3A	29:1b:602:CLA:HBA1	1.76	0.42
29:1b:611:CLA:H141	29:1b:613:CLA:HBD	2.02	0.42
35:1b:618:BCR:HC21	17:1m:6:LEU:HD22	2.01	0.42
8:1c:71:GLU:OE1	8:1c:88:LEU:HB2	2.20	0.42
8:1c:221:GLU:OE2	25:1w:12:GLY:N	2.53	0.42
9:1d:88:HIS:NE2	9:1d:165:GLN:O	2.44	0.42
35:1d:409:BCR:H392	35:1d:409:BCR:H24C	1.74	0.42
1:1g:146:GLY:HA3	1:1g:147:PRO:HD3	1.90	0.42
1:1g:209:LEU:HD12	31:1g:615:LUT:H163	2.02	0.42
19:1p:10:GLY:HA2	24:1v:109:ALA:HB3	2.02	0.42
1:00:65:GLU:OE1	1:00:188:MET:HE1	2.20	0.42
29:00:318:CLA:H2	29:00:318:CLA:H61	1.78	0.42
1:01:101:GLY:O	1:01:103:GLN:N	2.53	0.42
1:09:76:ALA:HB1	31:09:313:LUT:H12	2.02	0.42
29:09:301:CLA:H62	29:09:302:CLA:H3A	2.02	0.42
6:1A:272:HIS:HA	6:1A:275:LEU:HD12	2.01	0.42
41:1B:629:SQD:H112	13:1i:7:PHE:HD2	1.85	0.42
8:1C:117:LEU:HD13	41:1S:302:SQD:H292	2.02	0.42
29:1C:505:CLA:H112	29:1C:505:CLA:H71	1.89	0.42
30:1G:601:CHL:H102	30:1G:601:CHL:H62	1.60	0.42
18:1O:196:SER:HB3	18:1O:223:PRO:HG2	2.01	0.42
29:1S:311:CLA:C1B	33:1S:319:LHG:HC31	2.50	0.42
6:1a:281:VAL:HG12	41:1a:410:SQD:H223	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:628:LHG:H151	40:1d:410:PL9:H302	2.02	0.42
8:1c:163:ILE:O	8:1c:167:LEU:HG	2.20	0.42
29:1c:508:CLA:H93	33:1w:104:LHG:H181	2.01	0.42
10:1e:13:ILE:HG21	45:1f:101:HEM:HAD2	2.02	0.42
21:1s:222:LEU:HB3	33:1s:319:LHG:HC91	2.01	0.42
1:01:132:VAL:HG11	33:03:314:LHG:H252	2.02	0.41
1:01:168:ASP:OD1	1:01:168:ASP:N	2.53	0.41
2:03:173:ASP:CG	31:03:313:LUT:H24	2.45	0.41
1:09:172:ALA:O	1:09:176:LEU:HD12	2.19	0.41
6:1A:26:ASN:N	6:1A:29:TYR:OH	2.53	0.41
6:1A:29:TYR:HB3	6:1A:129:ARG:HH21	1.85	0.41
7:1B:234:ILE:H	7:1B:234:ILE:HD12	1.84	0.41
41:1B:620:SQD:H2	41:1B:620:SQD:H461	2.02	0.41
35:1B:630:BCR:H313	22:1t:21:ILE:HD12	2.02	0.41
9:1D:94:TRP:HB2	26:1X:53:ASN:HB3	2.01	0.41
35:1Z:101:BCR:H15C	35:1Z:101:BCR:H351	1.88	0.41
35:1b:620:BCR:H403	35:1b:620:BCR:H23C	2.01	0.41
8:1c:230:LEU:HD23	8:1c:230:LEU:HA	1.94	0.41
29:1c:512:CLA:H201	15:1k:45:VAL:HG22	2.02	0.41
9:1d:27:ARG:HG3	9:1d:29:VAL:H	1.85	0.41
9:1d:88:HIS:CD2	9:1d:163:LEU:HA	2.55	0.41
12:1h:41:PRO:O	12:1h:45:VAL:HG23	2.19	0.41
20:1r:80:PHE:CE2	29:1r:314:CLA:HBB1	2.55	0.41
29:1r:308:CLA:HHC	29:1r:308:CLA:HBB1	2.01	0.41
23:1u:127:THR:O	23:1u:127:THR:OG1	2.34	0.41
1:20:215:ASP:C	1:20:217:VAL:H	2.27	0.41
1:00:103:GLN:O	1:00:106:SER:OG	2.31	0.41
1:00:191:MET:HG3	31:00:314:LUT:H14	2.02	0.41
1:05:181:ILE:O	1:05:185:ARG:HG3	2.20	0.41
6:1A:77:ILE:HG12	22:1T:10:LEU:HD11	2.02	0.41
29:1B:616:CLA:H93	29:1B:616:CLA:H61	1.80	0.41
34:1B:626:DGD:HE61	30:1R:304:CHL:HBD	2.02	0.41
13:1I:21:PHE:CZ	25:1W:34:TRP:HB2	2.55	0.41
46:1R:316:XAT:H11	46:1R:316:XAT:H203	1.89	0.41
24:1V:30:GLY:HA3	24:1V:49:LEU:HB2	2.02	0.41
28:1Z:48:ILE:HA	28:1Z:51:VAL:HG12	2.02	0.41
7:1b:68:ARG:HA	7:1b:167:TRP:HB2	2.02	0.41
29:1b:609:CLA:HAB	9:1d:124:ILE:HA	2.02	0.41
29:1b:616:CLA:H92	29:1b:616:CLA:H62	1.83	0.41
35:1b:618:BCR:H11C	35:1b:618:BCR:H341	1.92	0.41
8:1c:237:HIS:HE1	29:1c:503:CLA:NA	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1c:507:CLA:CMD	29:1c:509:CLA:HAB	2.49	0.41
9:1d:203:ALA:HB2	40:1d:410:PL9:H353	2.01	0.41
31:00:313:LUT:H35	31:00:313:LUT:H401	1.92	0.41
34:1B:625:DGD:HA32	9:1D:163:LEU:HD11	2.01	0.41
41:1B:629:SQD:H292	35:1a:409:BCR:H363	2.02	0.41
8:1C:342:MET:HE1	8:1C:356:MET:HE2	2.01	0.41
9:1D:132:GLU:HG3	41:1D:412:SQD:H282	2.02	0.41
19:1P:71:ILE:O	19:1P:74:PHE:HB2	2.21	0.41
31:1R:315:LUT:H31	31:1R:315:LUT:H391	1.96	0.41
6:1a:78:ILE:HG12	16:1l:34:ASN:ND2	2.35	0.41
7:1b:195:PRO:HA	7:1b:198:ILE:HD12	2.01	0.41
8:1c:286:ALA:O	8:1c:290:VAL:HG23	2.20	0.41
9:1d:186:PHE:CD2	29:1d:406:CLA:HMD3	2.56	0.41
33:1e:102:LHG:HC82	24:1v:66:ILE:HD11	2.02	0.41
35:1k:102:BCR:H321	35:1k:102:BCR:HC7	1.85	0.41
19:1p:81:LEU:HD13	19:1p:129:VAL:HG11	2.01	0.41
19:1p:143:LYS:HD3	19:1p:164:GLY:HA2	2.01	0.41
20:1r:11:ARG:NH1	20:1r:25:ASP:O	2.54	0.41
20:1r:209:PHE:CD2	46:1r:316:XAT:H32	2.55	0.41
1:00:194:PHE:HD1	1:00:205:PRO:HB3	1.86	0.41
3:04:104:LEU:O	3:04:106:GLY:N	2.54	0.41
35:04:313:BCR:HC21	29:1R:308:CLA:HHC	2.02	0.41
1:11:215:ASP:C	1:11:217:VAL:N	2.77	0.41
7:1B:33:TRP:HD1	35:1B:630:BCR:H381	1.85	0.41
12:1H:56:ILE:HG12	26:1X:54:PHE:CE2	2.54	0.41
18:1O:169:ASP:OD1	18:1O:169:ASP:N	2.53	0.41
19:1P:160:LYS:NZ	19:1P:162:GLN:OE1	2.52	0.41
20:1R:238:THR:HG22	20:1R:239:ILE:H	1.85	0.41
6:1a:200:LEU:HD12	41:1a:410:SQD:H222	2.01	0.41
40:1a:412:PL9:H353	9:1d:43:TYR:CA	2.50	0.41
33:1b:626:LHG:H261	17:1m:6:LEU:HD21	2.01	0.41
8:1c:338:GLY:HA3	8:1c:342:MET:HB3	2.02	0.41
1:1g:142:ARG:NH1	30:1g:609:CHL:O1D	2.45	0.41
29:1g:613:CLA:H2	29:1g:613:CLA:H61	1.86	0.41
29:1n:602:CLA:H8	29:1n:603:CLA:HMB3	2.01	0.41
28:1z:12:LEU:HA	28:1z:50:LEU:HD13	2.01	0.41
33:01:316:LHG:H161	33:1R:318:LHG:H252	2.02	0.41
29:09:317:CLA:H41	29:09:317:CLA:HBC2	2.02	0.41
6:1A:276:ALA:HA	9:1D:213:ALA:HA	2.02	0.41
8:1C:223:TRP:CE2	42:1C:524:MGE:H8B1	2.56	0.41
8:1C:223:TRP:HE3	34:1C:516:DGD:HB21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1C:503:CLA:H101	29:1C:503:CLA:H61	1.75	0.41
34:1C:518:DGD:HA31	41:1D:411:SQD:H82	2.01	0.41
9:1D:153:VAL:O	9:1D:157:VAL:HG22	2.21	0.41
19:1P:31:PRO:O	19:1P:33:LYS:N	2.52	0.41
33:1W:102:LHG:HC81	33:1W:102:LHG:H111	1.90	0.41
6:1a:67:VAL:HG22	9:1d:313:GLU:HB3	2.01	0.41
6:1a:97:TRP:CD1	13:1i:5:LYS:HE2	2.56	0.41
9:1d:156:SER:HA	9:1d:160:ILE:HB	2.01	0.41
9:1d:192:TRP:NE1	9:1d:290:LEU:HD11	2.35	0.41
1:1g:44:TYR:HB2	29:1g:602:CLA:HMD3	2.03	0.41
19:1p:77:PRO:HB2	19:1p:116:SER:HB2	2.02	0.41
1:00:110:LEU:HD13	30:00:305:CHL:HHD	2.03	0.41
1:00:135:MET:HE1	30:00:305:CHL:HMB3	2.02	0.41
1:01:69:SER:HB2	1:01:184:GLY:HA3	2.02	0.41
1:01:122:GLN:HG2	30:01:302:CHL:HAB	2.02	0.41
2:03:25:TRP:HB3	2:03:189:VAL:HG11	2.01	0.41
3:04:137:PHE:HE1	30:04:303:CHL:CHC	2.33	0.41
1:06:87:ARG:O	1:06:88:ASN:C	2.63	0.41
31:07:313:LUT:H31	31:07:313:LUT:H391	1.79	0.41
1:09:127:ILE:H	1:09:127:ILE:HG13	1.67	0.41
6:1A:41:LEU:HD23	6:1A:41:LEU:HA	1.91	0.41
7:1B:461:LEU:HD13	29:1B:611:CLA:H91	2.03	0.41
9:1D:202:VAL:HG13	29:1D:404:CLA:HBB1	2.01	0.41
40:1E:102:PL9:H372	40:1E:102:PL9:H412	1.57	0.41
13:1I:5:LYS:O	13:1I:6:LEU:C	2.63	0.41
18:1O:50:LYS:O	18:1O:244:ALA:HA	2.21	0.41
18:1O:52:CYS:HB3	18:1O:243:TYR:HB3	2.03	0.41
31:1R:315:LUT:H35	31:1R:315:LUT:H401	1.79	0.41
40:1a:412:PL9:H122	40:1a:412:PL9:H161	1.75	0.41
7:1b:3:LEU:HD13	7:1b:8:VAL:HA	2.03	0.41
7:1b:65:PHE:HE1	29:1b:605:CLA:HED3	1.85	0.41
41:1c:517:SQD:H342	34:1c:519:DGD:HB61	2.03	0.41
1:1n:189:PHE:HB2	29:1n:602:CLA:HMC3	2.02	0.41
29:1r:309:CLA:H52	31:1r:315:LUT:H30	2.03	0.41
29:01:310:CLA:H91	29:01:310:CLA:H111	1.91	0.41
35:04:313:BCR:HC8	35:04:313:BCR:H331	2.02	0.41
30:05:305:CHL:H61	30:05:305:CHL:H41	1.79	0.41
1:06:185:ARG:HB3	29:06:607:CLA:HBC3	2.03	0.41
1:06:208:ASN:HA	1:06:212:HIS:CE1	2.55	0.41
1:09:79:CYS:HB3	1:09:97:TRP:CD1	2.54	0.41
1:09:197:GLN:O	1:09:200:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1A:77:ILE:HB	16:1L:34:ASN:HD21	1.86	0.41
35:1A:409:BCR:H403	35:1A:409:BCR:H24C	1.86	0.41
40:1E:102:PL9:H261	14:1J:20:ALA:HB1	2.02	0.41
1:1N:70:ARG:HH11	29:1N:311:CLA:C4C	2.30	0.41
30:1N:310:CHL:H91	30:1N:310:CHL:H111	1.78	0.41
20:1R:92:PHE:HB3	29:1R:302:CLA:HHB	2.02	0.41
20:1R:162:ARG:HH12	29:1R:306:CLA:HED2	1.85	0.41
7:1b:227:LYS:HA	7:1b:227:LYS:HD2	1.88	0.41
41:1c:517:SQD:H45	41:1c:517:SQD:H81	1.93	0.41
1:1n:174:ALA:O	1:1n:178:VAL:HG12	2.21	0.41
20:1r:208:ALA:HB1	20:1r:212:PHE:HE1	1.85	0.41
1:00:191:MET:HA	1:00:194:PHE:HD2	1.84	0.41
1:01:74:LEU:HD23	30:01:305:CHL:HED1	2.02	0.41
1:01:99:LYS:HD2	30:01:304:CHL:HMA2	2.02	0.41
1:02:63:GLU:HA	1:02:66:VAL:HG12	2.03	0.41
2:07:208:GLN:O	2:07:212:THR:OG1	2.35	0.41
3:08:33:PHE:HD2	29:08:311:CLA:HMD2	1.86	0.41
1:09:21:ARG:NH1	1:09:37:THR:O	2.54	0.41
1:09:185:ARG:HG2	29:09:301:CLA:C3C	2.51	0.41
6:1A:56:PRO:HB2	18:1O:123:ARG:NH2	2.35	0.41
6:1A:219:VAL:HG23	6:1A:246:TYR:CG	2.55	0.41
38:1A:406:PHO:H13	9:1D:49:TRP:CG	2.56	0.41
40:1E:102:PL9:H13	11:1F:24:THR:HG21	2.03	0.41
40:1R:301:PL9:H201	40:1R:301:PL9:H222	1.70	0.41
29:1S:310:CLA:CBB	31:1S:317:LUT:H32	2.51	0.41
33:1V:201:LHG:H141	33:1V:201:LHG:H261	2.01	0.41
7:1b:207:THR:O	7:1b:211:LEU:HD12	2.20	0.41
7:1b:479:PHE:HA	9:1d:140:ARG:HD3	2.01	0.41
29:1b:602:CLA:H11	29:1b:602:CLA:H51	1.80	0.41
29:1b:609:CLA:H111	29:1b:609:CLA:H91	1.84	0.41
9:1d:70:GLU:OE2	10:1e:55:TYR:OH	2.24	0.41
14:1j:11:TRP:HB2	15:1k:56:ALA:HB1	2.02	0.41
1:1n:110:LEU:HD13	30:1n:606:CHL:HHD	2.03	0.41
1:1n:177:LYS:O	1:1n:180:GLU:HG3	2.21	0.41
18:1o:182:GLU:HG2	18:1o:184:GLU:H	1.85	0.41
19:1p:99:SER:O	19:1p:99:SER:OG	2.38	0.41
28:1z:23:VAL:HA	28:1z:26:VAL:HG22	2.02	0.41
30:00:306:CHL:H102	30:00:308:CHL:H171	2.02	0.41
29:00:310:CLA:HMA2	33:1C:520:LHG:HC2	2.03	0.41
1:01:47:ASP:OD1	1:01:47:ASP:N	2.54	0.41
1:01:174:ALA:O	1:01:177:LYS:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:01:200:VAL:HG23	1:01:201:THR:HG23	2.03	0.41
2:03:129:VAL:HG22	30:03:302:CHL:C3D	2.51	0.41
2:07:168:GLY:HA2	2:07:173:ASP:HB3	2.03	0.41
3:08:46:PHE:CE1	3:08:49:TRP:HD1	2.39	0.41
1:09:134:LEU:O	1:09:138:VAL:HG22	2.21	0.41
7:1B:18:ARG:NH2	41:1B:620:SQD:H62	2.36	0.41
7:1B:26:HIS:CD2	29:1B:611:CLA:ND	2.84	0.41
29:1B:606:CLA:HAC2	29:1B:607:CLA:H121	2.02	0.41
29:1B:607:CLA:H111	29:1B:607:CLA:H91	1.89	0.41
29:1B:608:CLA:H202	29:1B:608:CLA:H161	1.93	0.41
8:1C:279:LEU:HD22	29:1C:502:CLA:HAC1	2.02	0.41
8:1C:294:ASN:N	34:1C:516:DGD:O5E	2.45	0.41
8:1C:405:ASN:HB2	8:1C:407:VAL:HG23	2.03	0.41
29:1C:504:CLA:ND	34:1C:517:DGD:HB32	2.36	0.41
29:1C:510:CLA:H2	35:1Z:102:BCR:H272	2.03	0.41
9:1D:252:ARG:HH11	9:1D:256:GLN:NE2	2.19	0.41
9:1D:275:VAL:HG22	40:1D:407:PL9:H222	2.03	0.41
35:1D:406:BCR:H11C	35:1D:406:BCR:H341	1.98	0.41
10:1E:60:ARG:CZ	10:1E:64:PRO:HG3	2.51	0.41
40:1E:102:PL9:HC2	40:1E:102:PL9:HC8	1.72	0.41
46:1G:619:XAT:H391	46:1G:619:XAT:H31	1.69	0.41
12:1H:20:GLY:O	12:1H:24:LYS:HB2	2.21	0.41
1:1N:54:ASP:HB3	1:1N:57:THR:HG22	2.03	0.41
28:1Z:11:ALA:O	28:1Z:15:THR:OG1	2.35	0.41
35:1Z:102:BCR:H371	35:1Z:102:BCR:H24C	1.78	0.41
6:1a:21:ILE:HD11	35:1a:409:BCR:HC21	2.03	0.41
6:1a:27:ARG:NH1	9:1d:255:SER:O	2.52	0.41
6:1a:184:ILE:HG23	6:1a:328:MET:SD	2.61	0.41
6:1a:191:ASN:OD1	6:1a:194:MET:HG2	2.20	0.41
6:1a:267:ASN:OD1	6:1a:270:SER:N	2.43	0.41
33:1a:413:LHG:HC91	42:1k:101:MGE:H2A2	2.03	0.41
7:1b:207:THR:HA	7:1b:210:ILE:HD12	2.03	0.41
7:1b:235:GLU:HG2	29:1b:613:CLA:HBC1	2.03	0.41
8:1c:38:GLY:HA3	29:1c:513:CLA:HMD2	2.02	0.41
34:1c:519:DGD:HA71	34:1c:520:DGD:HB61	2.02	0.41
34:1c:520:DGD:HA61	34:1c:520:DGD:HA32	1.95	0.41
9:1d:47:GLY:O	9:1d:51:THR:OG1	2.25	0.41
9:1d:88:HIS:HD2	9:1d:163:LEU:HA	1.86	0.41
9:1d:253:PHE:O	9:1d:257:ILE:HB	2.21	0.41
35:1h:101:BCR:HC7	35:1h:101:BCR:H331	1.76	0.41
13:1i:5:LYS:HA	13:1i:8:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1r:44:GLU:OE1	20:1r:44:GLU:N	2.54	0.41
29:1r:312:CLA:HHB	31:1r:315:LUT:H162	2.01	0.41
22:1t:5:VAL:HG13	33:1t:101:LHG:H182	2.03	0.41
24:1v:55:LYS:HG3	24:1v:56:TYR:CD1	2.56	0.41
1:00:156:TYR:CE2	1:00:177:LYS:HD3	2.56	0.41
31:00:313:LUT:H31	31:00:313:LUT:H391	2.00	0.41
29:06:611:CLA:HHC	29:06:611:CLA:HBB1	2.03	0.41
2:07:123:LEU:H	2:07:128:LEU:HG	1.86	0.41
1:09:222:TRP:HH2	30:1n:607:CHL:HBC2	1.86	0.41
30:09:308:CHL:H42	29:1g:602:CLA:H141	2.03	0.41
6:1A:292:THR:HG21	34:1C:517:DGD:HBF2	2.02	0.41
35:1B:618:BCR:H351	35:1B:618:BCR:H15C	1.83	0.41
9:1D:329:TRP:CE3	9:1D:347:LEU:HD13	2.56	0.41
1:1G:192:PHE:HE2	31:1G:616:LUT:H14	1.86	0.41
35:1J:101:BCR:H10C	35:1J:101:BCR:HC7	1.83	0.41
21:1S:182:ALA:O	21:1S:186:LYS:HG2	2.21	0.41
6:1a:126:TYR:HE1	9:1d:257:ILE:HG23	1.86	0.41
35:1a:409:BCR:H11C	35:1a:409:BCR:H341	1.92	0.41
33:1a:413:LHG:H301	33:1a:413:LHG:H272	1.32	0.41
10:1e:71:ASP:OD2	23:1u:133:ASN:ND2	2.54	0.41
15:1k:53:VAL:O	15:1k:57:ALA:N	2.48	0.41
17:1m:11:THR:O	17:1m:15:ILE:HG12	2.21	0.41
1:1n:182:LYS:HB3	29:1n:611:CLA:HMD1	2.03	0.41
31:1s:317:LUT:H31	31:1s:317:LUT:H391	1.90	0.41
30:01:306:CHL:H43	33:03:314:LHG:HC92	2.02	0.40
3:04:25:LEU:HD12	3:04:25:LEU:HA	1.89	0.40
1:06:54:ASP:HB3	1:06:57:THR:HG22	2.02	0.40
2:07:207:VAL:O	2:07:211:VAL:HG12	2.21	0.40
30:09:308:CHL:HMB1	30:1g:601:CHL:H3A	2.03	0.40
34:1A:414:DGD:HB82	34:1A:414:DGD:HBE1	1.91	0.40
7:1B:170:ASP:HB3	7:1B:174:LEU:H	1.86	0.40
7:1B:177:LYS:HB3	7:1B:177:LYS:HE3	1.89	0.40
7:1B:216:HIS:HE1	29:1B:607:CLA:C1A	2.34	0.40
7:1B:440:ASP:OD1	9:1D:300:VAL:HG11	2.21	0.40
29:1B:614:CLA:HBA2	35:1B:619:BCR:H372	2.02	0.40
35:1B:617:BCR:HC7	35:1B:617:BCR:H331	1.73	0.40
40:1E:102:PL9:H461	40:1E:102:PL9:H421	1.62	0.40
40:1E:102:PL9:H262	40:1E:102:PL9:H221	1.84	0.40
15:1K:52:PHE:O	15:1K:56:ALA:N	2.51	0.40
29:1N:303:CLA:H52	31:1N:316:LUT:H28	2.02	0.40
30:1N:306:CHL:HBB2	33:1N:318:LHG:HC91	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1O:162:ARG:HH22	18:1O:172:VAL:HG22	1.87	0.40
20:1R:29:VAL:HG21	20:1R:195:GLN:HB3	2.03	0.40
21:1S:71:PHE:HE1	29:1S:305:CLA:H2A	1.86	0.40
7:1b:268:PHE:HB3	7:1b:448:ARG:HB2	2.02	0.40
7:1b:383:PHE:H	9:1d:346:VAL:HA	1.85	0.40
7:1b:434:ARG:NH2	7:1b:439:SER:O	2.55	0.40
9:1d:62:HIS:NE2	9:1d:81:THR:OG1	2.43	0.40
38:1d:404:PHO:NC	38:1d:404:PHO:ND	2.69	0.40
41:1d:411:SQD:O3	14:1j:28:PHE:O	2.30	0.40
18:1o:92:PRO:HD2	18:1o:104:GLU:HB2	2.02	0.40
18:1o:110:ASP:OD1	18:1o:110:ASP:N	2.45	0.40
20:1r:155:ILE:HD11	30:1r:305:CHL:HMA1	2.03	0.40
29:1r:303:CLA:HMC1	30:1r:306:CHL:HAB	2.03	0.40
21:1s:81:HIS:HE1	29:1s:306:CLA:ND	2.04	0.40
33:00:317:LHG:H142	33:00:317:LHG:H112	1.95	0.40
29:01:308:CLA:H2	2:03:58:ALA:O	2.22	0.40
1:05:135:MET:O	1:05:139:GLU:HG3	2.21	0.40
6:1A:308:ASP:OD1	6:1A:311:GLY:N	2.38	0.40
7:1B:216:HIS:HE1	29:1B:607:CLA:C4D	2.35	0.40
8:1C:438:PHE:O	8:1C:442:LEU:HG	2.22	0.40
29:1C:508:CLA:H92	29:1C:508:CLA:H111	1.92	0.40
1:1G:64:LEU:HD21	1:1N:49:ALA:HA	2.03	0.40
40:1R:301:PL9:HC2	40:1R:301:PL9:H112	2.03	0.40
21:1S:173:LEU:HD12	31:1S:317:LUT:H222	2.04	0.40
21:1S:198:PHE:HB2	33:1S:319:LHG:H272	2.02	0.40
6:1a:120:LEU:HA	6:1a:120:LEU:HD23	1.84	0.40
6:1a:329:GLU:HG2	8:1c:412:THR:HG21	2.02	0.40
29:1b:612:CLA:HAB	29:1b:614:CLA:HMA1	2.04	0.40
8:1c:56:HIS:CD2	29:1c:512:CLA:ND	2.79	0.40
11:1f:32:SER:HA	11:1f:35:GLN:HG2	2.03	0.40
35:1i:101:BCR:H351	35:1i:101:BCR:H15C	1.85	0.40
20:1r:181:PRO:HD2	31:1r:315:LUT:H23	2.03	0.40
46:1r:316:XAT:H15	46:1r:316:XAT:H201	1.46	0.40
21:1s:81:HIS:HE1	29:1s:306:CLA:C4D	2.33	0.40
21:1s:202:GLY:O	21:1s:206:GLN:HG2	2.20	0.40
24:1v:88:LEU:HA	24:1v:91:ILE:HG22	2.04	0.40
1:00:80:VAL:HG12	1:00:206:LEU:HD12	2.03	0.40
34:00:320:DGD:HA32	34:00:320:DGD:HA62	1.93	0.40
3:04:167:ILE:HA	3:04:168:PRO:HD3	2.00	0.40
31:09:314:LUT:H35	31:09:314:LUT:H401	1.95	0.40
6:1A:132:GLU:O	6:1A:136:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1B:296:LEU:HD13	7:1B:304:LYS:HE3	2.02	0.40
29:1B:610:CLA:H102	29:1B:610:CLA:H13	1.91	0.40
8:1C:166:ILE:HG13	8:1C:248:GLY:HA3	2.03	0.40
9:1D:234:ARG:HH21	24:1V:24:PRO:HG2	1.87	0.40
30:1G:607:CHL:H171	33:1N:317:LHG:H211	2.03	0.40
30:1S:307:CHL:HBB2	30:1S:308:CHL:CAB	2.52	0.40
6:1a:88:ALA:HA	8:1c:356:MET:HB3	2.03	0.40
8:1c:155:ASN:O	8:1c:159:THR:HG23	2.20	0.40
8:1c:461:ARG:HD3	8:1c:461:ARG:HA	1.97	0.40
8:1c:464:GLU:OE2	9:1d:249:THR:OG1	2.39	0.40
29:1c:508:CLA:H61	29:1c:508:CLA:H2	1.69	0.40
9:1d:198:HIS:HE1	29:1d:406:CLA:NC	2.15	0.40
40:1e:101:PL9:C52	11:1f:17:VAL:HG22	2.52	0.40
11:1f:14:TRP:O	11:1f:18:HIS:ND1	2.51	0.40
11:1f:34:MET:HA	11:1f:37:ILE:HG13	2.03	0.40
29:1g:602:CLA:HBA1	31:1g:616:LUT:H382	2.03	0.40
16:1l:30:VAL:O	16:1l:34:ASN:ND2	2.49	0.40
1:1n:146:GLY:HA3	1:1n:147:PRO:HD3	1.96	0.40
18:1o:142:PHE:HB3	18:1o:202:LEU:O	2.22	0.40
42:1s:320:MGE:H5B2	42:1s:320:MGE:H2B2	1.87	0.40
1:01:40:PHE:HA	1:01:62:ARG:HH21	1.85	0.40
1:01:105:PHE:HZ	2:03:233:TRP:HB3	1.87	0.40
31:03:313:LUT:H31	31:03:313:LUT:H391	1.98	0.40
35:04:313:BCR:H24C	35:04:313:BCR:H403	1.89	0.40
29:08:312:CLA:C4D	33:1r:317:LHG:H112	2.50	0.40
1:09:156:TYR:HB3	29:09:309:CLA:HED2	2.02	0.40
29:09:301:CLA:H61	29:09:301:CLA:H41	1.56	0.40
7:1B:256:MET:HA	7:1B:263:THR:HG21	2.04	0.40
29:1B:608:CLA:HBA1	29:1B:608:CLA:H3A	1.65	0.40
8:1C:404:LEU:HD23	8:1C:404:LEU:HA	1.93	0.40
29:1C:508:CLA:CAD	29:1C:508:CLA:H151	2.51	0.40
34:1C:516:DGD:HB62	34:1C:516:DGD:HB31	1.84	0.40
9:1D:186:PHE:O	9:1D:190:HIS:HB2	2.20	0.40
11:1F:35:GLN:HG2	11:1F:35:GLN:H	1.78	0.40
29:1G:612:CLA:HBC3	33:1G:618:LHG:H181	2.02	0.40
35:1J:101:BCR:H15C	35:1J:101:BCR:H351	1.82	0.40
18:1O:155:SER:HA	18:1O:166:THR:HG22	2.03	0.40
20:1R:13:LEU:HD23	20:1R:20:ALA:HB2	2.04	0.40
24:1V:38:ASP:OD1	24:1V:40:SER:OG	2.40	0.40
29:1b:608:CLA:H62	29:1b:608:CLA:H93	1.85	0.40
8:1c:135:LEU:HD13	28:1z:27:PHE:HD1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1c:342:MET:HE1	8:1c:356:MET:HE2	2.04	0.40
10:1e:25:ILE:HG23	24:1v:93:LEU:HD13	2.03	0.40
29:1g:602:CLA:CAB	31:1g:616:LUT:H32	2.52	0.40
30:1g:607:CHL:HAA1	46:1g:619:XAT:H23	2.03	0.40
18:1o:183:GLU:HA	18:1o:186:ALA:HB2	2.01	0.40
26:1x:68:ILE:O	26:1x:72:VAL:HG23	2.20	0.40
1:00:136:GLY:N	30:00:308:CHL:HAB	2.37	0.40
29:00:301:CLA:H41	29:00:301:CLA:H61	1.73	0.40
29:00:309:CLA:H93	29:00:309:CLA:H61	1.88	0.40
1:02:126:ALA:HA	30:02:603:CHL:HMC	2.04	0.40
1:02:178:VAL:HA	1:02:181:ILE:HG12	2.04	0.40
2:03:122:TYR:HB2	2:03:128:LEU:HD22	2.03	0.40
31:09:313:LUT:H35	31:09:313:LUT:H401	1.91	0.40
6:1A:120:LEU:HA	6:1A:123:VAL:HG22	2.03	0.40
7:1B:277:GLN:HA	23:1U:128:ALA:HA	2.03	0.40
7:1B:472:ARG:HG2	7:1B:472:ARG:HH11	1.87	0.40
41:1B:629:SQD:H271	41:1B:629:SQD:H242	1.97	0.40
35:1J:101:BCR:H381	15:1K:56:ALA:HB2	2.04	0.40
1:1N:110:LEU:HD21	30:1N:307:CHL:HAC1	2.03	0.40
18:1O:15:LYS:HD2	18:1O:20:VAL:HG22	2.04	0.40
33:1c:521:LHG:H182	33:1c:521:LHG:H211	1.91	0.40
33:1c:521:LHG:H212	33:1c:522:LHG:H261	2.04	0.40
1:1g:77:LEU:HD13	1:1g:77:LEU:HA	1.93	0.40
1:1n:77:LEU:HG	29:1n:612:CLA:HAB	2.04	0.40
29:1n:613:CLA:H91	29:1n:613:CLA:H111	1.87	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	00	217/219 (99%)	193 (89%)	24 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	01	217/219 (99%)	186 (86%)	27 (12%)	4 (2%)	6 25
1	02	208/219 (95%)	173 (83%)	31 (15%)	4 (2%)	6 23
1	05	206/219 (94%)	175 (85%)	29 (14%)	2 (1%)	12 39
1	06	203/219 (93%)	167 (82%)	33 (16%)	3 (2%)	8 28
1	09	217/219 (99%)	192 (88%)	24 (11%)	1 (0%)	24 54
1	11	216/219 (99%)	197 (91%)	19 (9%)	0	100 100
1	14	216/219 (99%)	196 (91%)	20 (9%)	0	100 100
1	17	216/219 (99%)	195 (90%)	17 (8%)	4 (2%)	6 23
1	1G	217/219 (99%)	199 (92%)	17 (8%)	1 (0%)	24 54
1	1N	217/219 (99%)	199 (92%)	17 (8%)	1 (0%)	24 54
1	1g	217/219 (99%)	197 (91%)	19 (9%)	1 (0%)	24 54
1	1n	217/219 (99%)	199 (92%)	17 (8%)	1 (0%)	24 54
1	20	216/219 (99%)	197 (91%)	19 (9%)	0	100 100
2	03	218/220 (99%)	186 (85%)	30 (14%)	2 (1%)	14 41
2	07	218/220 (99%)	188 (86%)	28 (13%)	2 (1%)	14 41
3	04	198/205 (97%)	152 (77%)	44 (22%)	2 (1%)	12 39
3	08	203/205 (99%)	170 (84%)	28 (14%)	5 (2%)	4 17
4	12	220/222 (99%)	202 (92%)	17 (8%)	1 (0%)	24 54
4	15	220/222 (99%)	202 (92%)	17 (8%)	1 (0%)	24 54
4	18	220/222 (99%)	202 (92%)	17 (8%)	1 (0%)	24 54
4	21	220/222 (99%)	202 (92%)	17 (8%)	1 (0%)	24 54
5	13	216/218 (99%)	206 (95%)	10 (5%)	0	100 100
5	16	216/218 (99%)	206 (95%)	10 (5%)	0	100 100
5	19	216/218 (99%)	206 (95%)	10 (5%)	0	100 100
5	22	216/218 (99%)	206 (95%)	10 (5%)	0	100 100
6	1A	332/334 (99%)	314 (95%)	18 (5%)	0	100 100
6	1a	331/334 (99%)	313 (95%)	18 (5%)	0	100 100
7	1B	501/503 (100%)	476 (95%)	24 (5%)	1 (0%)	43 72
7	1b	501/503 (100%)	486 (97%)	15 (3%)	0	100 100
8	1C	448/450 (100%)	428 (96%)	20 (4%)	0	100 100
8	1c	448/450 (100%)	428 (96%)	17 (4%)	3 (1%)	18 48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
9	1D	338/341 (99%)	319 (94%)	17 (5%)	2 (1%)	21 51
9	1d	339/341 (99%)	316 (93%)	23 (7%)	0	100 100
10	1E	73/75 (97%)	68 (93%)	5 (7%)	0	100 100
10	1e	73/75 (97%)	68 (93%)	5 (7%)	0	100 100
11	1F	33/35 (94%)	33 (100%)	0	0	100 100
11	1f	28/35 (80%)	27 (96%)	1 (4%)	0	100 100
12	1H	58/60 (97%)	53 (91%)	5 (9%)	0	100 100
12	1h	58/60 (97%)	57 (98%)	1 (2%)	0	100 100
13	1I	32/34 (94%)	23 (72%)	8 (25%)	1 (3%)	3 14
13	1i	32/34 (94%)	30 (94%)	2 (6%)	0	100 100
14	1J	33/35 (94%)	33 (100%)	0	0	100 100
14	1j	33/35 (94%)	33 (100%)	0	0	100 100
15	1K	35/37 (95%)	32 (91%)	3 (9%)	0	100 100
15	1k	35/37 (95%)	34 (97%)	0	1 (3%)	3 15
16	1L	34/36 (94%)	33 (97%)	1 (3%)	0	100 100
16	1l	33/36 (92%)	33 (100%)	0	0	100 100
17	1M	30/33 (91%)	24 (80%)	5 (17%)	1 (3%)	3 13
17	1m	31/33 (94%)	31 (100%)	0	0	100 100
18	1O	245/248 (99%)	211 (86%)	34 (14%)	0	100 100
18	1o	233/248 (94%)	210 (90%)	23 (10%)	0	100 100
19	1P	184/186 (99%)	164 (89%)	19 (10%)	1 (0%)	24 54
19	1p	184/186 (99%)	170 (92%)	14 (8%)	0	100 100
20	1R	232/234 (99%)	209 (90%)	22 (10%)	1 (0%)	30 59
20	1r	232/234 (99%)	216 (93%)	16 (7%)	0	100 100
21	1S	216/218 (99%)	186 (86%)	28 (13%)	2 (1%)	14 41
21	1s	215/218 (99%)	188 (87%)	26 (12%)	1 (0%)	24 54
22	1T	30/32 (94%)	30 (100%)	0	0	100 100
22	1t	29/32 (91%)	29 (100%)	0	0	100 100
23	1U	25/27 (93%)	23 (92%)	2 (8%)	0	100 100
23	1u	25/27 (93%)	22 (88%)	3 (12%)	0	100 100
24	1V	96/105 (91%)	79 (82%)	16 (17%)	1 (1%)	12 39

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
24	1v	97/105 (92%)	81 (84%)	12 (12%)	4 (4%)	2 9
25	1W	52/54 (96%)	47 (90%)	5 (10%)	0	100 100
25	1w	42/54 (78%)	40 (95%)	2 (5%)	0	100 100
26	1X	37/39 (95%)	36 (97%)	1 (3%)	0	100 100
26	1x	36/39 (92%)	34 (94%)	2 (6%)	0	100 100
27	1Y	32/36 (89%)	31 (97%)	1 (3%)	0	100 100
27	1y	32/36 (89%)	32 (100%)	0	0	100 100
28	1Z	60/62 (97%)	58 (97%)	2 (3%)	0	100 100
28	1z	60/62 (97%)	58 (97%)	2 (3%)	0	100 100
All	All	11864/12104 (98%)	10839 (91%)	969 (8%)	56 (0%)	26 54

All (56) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	01	98	PHE
3	08	13	PHE
1	17	215	ASP
1	17	216	PRO
1	17	217	VAL
7	1B	18	ARG
9	1D	268	LEU
8	1c	43	ILE
8	1c	384	ILE
15	1k	40	MET
1	01	48	THR
1	01	95	ALA
1	02	126	ALA
1	02	214	ALA
2	03	179	ASP
1	05	95	ALA
1	06	126	ALA
2	07	179	ASP
3	08	20	ILE
4	12	164	ASP
4	15	164	ASP
4	18	164	ASP
17	1M	3	VAL
19	1P	53	PHE
21	1S	66	LYS

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Mol	Chain	Res	Type
21	1s	66	LYS
24	1v	43	VAL
24	1v	51	GLN
24	1v	83	LYS
4	21	164	ASP
1	02	51	LEU
1	05	225	ALA
3	08	94	PHE
1	01	102	SER
3	04	105	MET
1	06	95	ALA
1	02	119	ILE
1	17	218	ASN
8	1c	472	LEU
1	1n	119	ILE
3	04	12	ALA
1	06	82	PRO
3	08	11	PRO
3	08	162	ARG
9	1D	352	ALA
1	1G	54	ASP
21	1S	156	ASN
24	1V	32	VAL
1	1g	119	ILE
2	03	134	ILE
1	09	199	ILE
13	1I	20	ILE
1	1N	119	ILE
20	1R	141	PRO
24	1v	24	PRO
2	07	134	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.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	00	166/166 (100%)	161 (97%)	5 (3%)	36	70
1	01	162/166 (98%)	157 (97%)	5 (3%)	35	69
1	02	150/166 (90%)	149 (99%)	1 (1%)	76	92
1	05	150/166 (90%)	149 (99%)	1 (1%)	76	92
1	06	129/166 (78%)	128 (99%)	1 (1%)	73	90
1	09	166/166 (100%)	163 (98%)	3 (2%)	51	80
1	11	17/166 (10%)	16 (94%)	1 (6%)	18	48
1	14	16/166 (10%)	15 (94%)	1 (6%)	16	45
1	17	16/166 (10%)	15 (94%)	1 (6%)	16	45
1	1G	166/166 (100%)	164 (99%)	2 (1%)	63	86
1	1N	165/166 (99%)	165 (100%)	0	100	100
1	1g	165/166 (99%)	163 (99%)	2 (1%)	63	86
1	1n	165/166 (99%)	162 (98%)	3 (2%)	51	80
1	20	16/166 (10%)	15 (94%)	1 (6%)	16	45
2	03	166/172 (96%)	164 (99%)	2 (1%)	63	86
2	07	159/172 (92%)	156 (98%)	3 (2%)	50	79
3	04	147/157 (94%)	145 (99%)	2 (1%)	59	85
3	08	149/157 (95%)	146 (98%)	3 (2%)	48	78
4	12	16/171 (9%)	16 (100%)	0	100	100
4	15	16/171 (9%)	16 (100%)	0	100	100
4	18	16/171 (9%)	16 (100%)	0	100	100
4	21	16/171 (9%)	16 (100%)	0	100	100
5	13	16/165 (10%)	16 (100%)	0	100	100
5	16	16/165 (10%)	16 (100%)	0	100	100
5	19	16/165 (10%)	16 (100%)	0	100	100
5	22	16/165 (10%)	16 (100%)	0	100	100
6	1A	270/270 (100%)	268 (99%)	2 (1%)	76	92
6	1a	270/270 (100%)	269 (100%)	1 (0%)	84	94
7	1B	402/402 (100%)	400 (100%)	2 (0%)	81	93
7	1b	402/402 (100%)	401 (100%)	1 (0%)	87	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
8	1C	346/350 (99%)	344 (99%)	2 (1%)	78 93
8	1c	349/350 (100%)	348 (100%)	1 (0%)	86 96
9	1D	274/275 (100%)	271 (99%)	3 (1%)	65 88
9	1d	275/275 (100%)	274 (100%)	1 (0%)	84 94
10	1E	68/68 (100%)	68 (100%)	0	100 100
10	1e	68/68 (100%)	68 (100%)	0	100 100
11	1F	30/30 (100%)	30 (100%)	0	100 100
11	1f	25/30 (83%)	25 (100%)	0	100 100
12	1H	49/49 (100%)	49 (100%)	0	100 100
12	1h	49/49 (100%)	48 (98%)	1 (2%)	48 78
13	1I	31/31 (100%)	28 (90%)	3 (10%)	8 25
13	1i	31/31 (100%)	31 (100%)	0	100 100
14	1J	26/26 (100%)	26 (100%)	0	100 100
14	1j	26/26 (100%)	26 (100%)	0	100 100
15	1K	32/32 (100%)	32 (100%)	0	100 100
15	1k	32/32 (100%)	32 (100%)	0	100 100
16	1L	34/34 (100%)	34 (100%)	0	100 100
16	1l	33/34 (97%)	33 (100%)	0	100 100
17	1M	27/29 (93%)	27 (100%)	0	100 100
17	1m	27/29 (93%)	27 (100%)	0	100 100
18	1O	202/204 (99%)	200 (99%)	2 (1%)	68 89
18	1o	196/204 (96%)	195 (100%)	1 (0%)	81 93
19	1P	149/149 (100%)	149 (100%)	0	100 100
19	1p	149/149 (100%)	149 (100%)	0	100 100
20	1R	191/191 (100%)	188 (98%)	3 (2%)	55 83
20	1r	191/191 (100%)	189 (99%)	2 (1%)	68 89
21	1S	169/173 (98%)	165 (98%)	4 (2%)	43 75
21	1s	170/173 (98%)	169 (99%)	1 (1%)	78 93
22	1T	29/29 (100%)	28 (97%)	1 (3%)	32 66
22	1t	28/29 (97%)	28 (100%)	0	100 100
23	1U	23/23 (100%)	23 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
23	1u	23/23 (100%)	23 (100%)	0	100 100
24	1V	70/77 (91%)	70 (100%)	0	100 100
24	1v	62/77 (80%)	60 (97%)	2 (3%)	34 68
25	1W	46/46 (100%)	45 (98%)	1 (2%)	45 77
25	1w	35/46 (76%)	35 (100%)	0	100 100
26	1X	32/32 (100%)	31 (97%)	1 (3%)	35 69
26	1x	32/32 (100%)	32 (100%)	0	100 100
27	1Y	28/30 (93%)	28 (100%)	0	100 100
27	1y	28/30 (93%)	27 (96%)	1 (4%)	31 65
28	1Z	54/54 (100%)	54 (100%)	0	100 100
28	1z	54/54 (100%)	52 (96%)	2 (4%)	30 64
All	All	7535/9534 (79%)	7460 (99%)	75 (1%)	65 89

All (75) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	00	192	PHE
1	00	197	GLN
1	00	200	VAL
1	00	206	LEU
1	00	207	GLU
1	01	60	LYS
1	01	94	GLU
1	01	96	VAL
1	01	99	LYS
1	01	186	LEU
1	02	183	ASN
2	03	73	LEU
2	03	144	LEU
3	04	74	TRP
3	04	79	TRP
1	05	151	VAL
1	06	85	LEU
2	07	74	GLU
2	07	82	MET
2	07	106	VAL
3	08	46	PHE
3	08	66	LEU

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Mol	Chain	Res	Type
3	08	80	PHE
1	09	190	SER
1	09	191	MET
1	09	196	VAL
1	11	170	PRO
1	14	170	PRO
1	17	170	PRO
6	1A	37	MET
6	1A	227	THR
7	1B	62	VAL
7	1B	234	ILE
8	1C	108	THR
8	1C	366	LEU
9	1D	75	LEU
9	1D	130	GLN
9	1D	193	THR
1	1G	29	SER
1	1G	180	GLU
13	1I	2	LEU
13	1I	4	LEU
13	1I	13	ILE
18	1O	134	VAL
18	1O	169	ASP
20	1R	57	LEU
20	1R	97	LEU
20	1R	143	SER
21	1S	37	GLU
21	1S	146	VAL
21	1S	200	MET
21	1S	231	LEU
22	1T	2	GLU
25	1W	9	GLU
26	1X	57	SER
6	1a	63	ILE
7	1b	66	MET
8	1c	469	MET
9	1d	292	LEU
1	1g	135	MET
1	1g	151	VAL
12	1h	27	ASN
1	1n	16	TRP
1	1n	70	ARG

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Mol	Chain	Res	Type
1	1n	122	GLN
18	1o	8	THR
20	1r	29	VAL
20	1r	138	GLN
21	1s	125	ASN
24	1v	49	LEU
24	1v	93	LEU
27	1y	9	LEU
28	1z	25	LEU
28	1z	60	LEU
1	20	170	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (84) such sidechains are listed below:

Mol	Chain	Res	Type
1	00	61	ASN
1	00	122	GLN
1	02	122	GLN
2	03	125	ASN
3	04	122	GLN
1	05	103	GLN
1	05	208	ASN
1	06	61	ASN
2	07	40	GLN
2	07	208	GLN
2	07	230	ASN
1	09	122	GLN
1	09	197	GLN
6	1A	181	ASN
6	1A	338	ASN
7	1B	73	ASN
7	1B	295	ASN
7	1B	332	ASN
7	1B	394	GLN
7	1B	425	GLN
8	1C	84	GLN
8	1C	385	GLN
8	1C	473	ASN
9	1D	195	ASN
9	1D	333	GLN
9	1D	339	ASN
10	1E	61	GLN

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Mol	Chain	Res	Type
1	1G	115	ASN
16	1L	34	ASN
17	1M	4	ASN
1	1N	197	GLN
18	1O	13	GLN
18	1O	27	ASN
18	1O	117	GLN
18	1O	132	ASN
18	1O	170	ASN
19	1P	52	ASN
19	1P	58	ASN
19	1P	145	GLN
20	1R	81	GLN
20	1R	90	GLN
21	1S	129	ASN
21	1S	206	GLN
21	1S	217	ASN
23	1U	133	ASN
24	1V	23	GLN
26	1X	77	ASN
27	1Y	22	ASN
27	1Y	25	GLN
27	1Y	29	ASN
6	1a	165	GLN
6	1a	230	ASN
6	1a	234	ASN
6	1a	298	ASN
6	1a	304	GLN
6	1a	310	GLN
7	1b	73	ASN
7	1b	182	ASN
7	1b	201	HIS
7	1b	274	GLN
8	1c	28	GLN
9	1d	84	ASN
9	1d	99	GLN
9	1d	187	GLN
9	1d	221	ASN
9	1d	302	GLN
9	1d	323	ASN
10	1e	61	GLN
11	1f	38	GLN

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Mol	Chain	Res	Type
1	1g	122	GLN
16	1l	7	ASN
16	1l	34	ASN
1	1n	197	GLN
1	1n	208	ASN
1	1n	218	ASN
18	1o	13	GLN
18	1o	117	GLN
19	1p	35	ASN
19	1p	56	ASN
20	1r	163	ASN
20	1r	225	ASN
23	1u	132	HIS
23	1u	133	ASN
28	1z	58	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 492 ligands modelled in this entry, 6 are monoatomic - leaving 486 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	02	610	-	47,52,73	2.58	20 (42%)	56,88,113	3.35	26 (46%)
29	CLA	1N	305	-	45,49,73	2.60	19 (42%)	54,84,113	3.42	30 (55%)
47	3PH	1X	101	-	38,38,47	0.70	1 (2%)	42,43,52	0.65	1 (2%)
46	XAT	1G	619	-	39,47,47	0.87	0	54,74,74	2.66	19 (35%)
29	CLA	1G	611	-	47,52,73	2.55	19 (40%)	56,88,113	3.40	24 (42%)
29	CLA	1c	509	-	69,73,73	2.14	19 (27%)	83,113,113	2.90	31 (37%)
46	XAT	1G	617	-	39,47,47	0.83	0	54,74,74	3.02	27 (50%)
40	PL9	1R	301	-	55,55,55	0.69	1 (1%)	68,69,69	0.76	1 (1%)
29	CLA	1N	311	1	45,49,73	2.56	19 (42%)	54,84,113	3.42	28 (51%)
34	DGD	1b	627	-	63,63,67	0.85	2 (3%)	77,77,81	0.91	2 (2%)
29	CLA	1c	508	8	59,63,73	2.27	18 (30%)	71,101,113	2.92	27 (38%)
34	DGD	1C	517	-	59,59,67	0.87	2 (3%)	73,73,81	1.03	5 (6%)
29	CLA	1b	609	7	69,73,73	2.04	16 (23%)	83,113,113	2.67	28 (33%)
29	CLA	1B	615	-	45,49,73	2.62	19 (42%)	54,84,113	3.50	28 (51%)
33	LHG	1D	409	-	42,42,48	0.30	0	45,48,54	0.36	0
29	CLA	1N	314	1	56,60,73	2.39	20 (35%)	67,97,113	3.24	30 (44%)
29	CLA	1c	512	8	69,73,73	2.12	19 (27%)	83,113,113	2.88	27 (32%)
29	CLA	03	310	-	49,53,73	2.53	20 (40%)	59,89,113	3.19	27 (45%)
29	CLA	1r	303	-	49,53,73	2.52	19 (38%)	59,89,113	3.34	26 (44%)
29	CLA	1N	315	1	45,49,73	2.62	20 (44%)	54,84,113	3.45	29 (53%)
29	CLA	1r	302	20	45,49,73	2.62	19 (42%)	54,84,113	3.42	29 (53%)
29	CLA	01	311	-	50,54,73	2.51	20 (40%)	60,90,113	3.34	27 (45%)
29	CLA	1C	509	8	69,73,73	2.12	19 (27%)	83,113,113	2.89	30 (36%)
29	CLA	01	308	-	69,73,73	2.10	19 (27%)	83,113,113	2.93	31 (37%)
29	CLA	1d	407	9	59,63,73	2.28	20 (33%)	71,101,113	3.11	30 (42%)
30	CHL	07	306	-	44,49,74	2.35	16 (36%)	48,84,114	3.32	22 (45%)
29	CLA	1s	312	21	59,63,73	2.32	20 (33%)	71,101,113	3.03	31 (43%)
30	CHL	1g	601	1	62,66,74	2.00	14 (22%)	70,104,114	2.91	25 (35%)
29	CLA	1B	607	7	66,70,73	2.15	19 (28%)	79,109,113	3.00	32 (40%)
29	CLA	1b	604	-	69,73,73	2.07	19 (27%)	83,113,113	2.63	26 (31%)
33	LHG	1W	101	-	34,34,48	0.31	0	37,40,54	0.40	0
41	SQD	1d	411	-	38,39,54	0.47	1 (2%)	47,50,65	0.65	2 (4%)
29	CLA	1B	605	-	69,73,73	2.07	19 (27%)	83,113,113	2.77	29 (34%)
29	CLA	1B	611	7	60,64,73	2.27	18 (30%)	72,102,113	3.14	29 (40%)
38	PHO	1A	406	-	58,69,69	0.76	1 (1%)	56,99,99	1.07	4 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	1b	605	7	46,50,73	2.48	18 (39%)	55,85,113	3.43	28 (50%)
29	CLA	1b	613	-	62,66,73	2.16	19 (30%)	74,104,113	2.98	33 (44%)
29	CLA	08	307	-	43,48,73	2.64	20 (46%)	51,83,113	3.45	27 (52%)
33	LHG	1R	317	29	37,37,48	0.29	0	40,43,54	0.45	0
30	CHL	06	605	-	48,53,74	2.28	16 (33%)	53,89,114	3.15	20 (37%)
30	CHL	1G	608	-	47,51,74	2.20	16 (34%)	52,86,114	3.34	21 (40%)
29	CLA	1B	614	7	49,53,73	2.57	19 (38%)	59,89,113	3.60	27 (45%)
29	CLA	08	311	-	43,48,73	2.69	19 (44%)	51,83,113	3.51	28 (54%)
33	LHG	1D	408	-	30,30,48	0.35	0	33,36,54	0.39	0
33	LHG	1N	317	29	42,42,48	0.29	0	45,48,54	0.36	0
30	CHL	05	307	1	46,50,74	2.32	15 (32%)	51,85,114	3.26	24 (47%)
29	CLA	1b	608	-	63,67,73	2.17	19 (30%)	75,105,113	2.92	31 (41%)
30	CHL	02	607	-	50,54,74	2.25	17 (34%)	56,90,114	3.12	22 (39%)
29	CLA	1b	610	7	65,69,73	2.12	18 (27%)	78,108,113	2.99	30 (38%)
29	CLA	1a	406	-	54,58,73	2.41	19 (35%)	65,95,113	3.26	31 (47%)
30	CHL	1n	608	-	50,54,74	2.24	19 (38%)	56,90,114	3.18	23 (41%)
33	LHG	1g	618	29	35,35,48	0.32	0	38,41,54	0.45	0
29	CLA	1d	403	-	63,67,73	2.23	19 (30%)	75,105,113	3.13	30 (40%)
29	CLA	1A	407	6	49,53,73	2.44	19 (38%)	59,89,113	3.34	28 (47%)
30	CHL	00	308	1	70,74,74	1.89	18 (25%)	80,114,114	2.67	24 (30%)
29	CLA	1C	507	8	62,66,73	2.19	19 (30%)	74,104,113	2.95	28 (37%)
29	CLA	1S	312	-	45,49,73	2.62	19 (42%)	54,84,113	3.53	28 (51%)
33	LHG	1I	103	-	38,38,48	0.30	0	41,44,54	0.38	0
29	CLA	1S	316	-	50,54,73	2.49	20 (40%)	60,90,113	3.27	27 (45%)
30	CHL	1n	606	-	51,55,74	2.15	17 (33%)	57,91,114	2.89	21 (36%)
29	CLA	1C	503	8	60,64,73	2.24	20 (33%)	72,102,113	3.12	30 (41%)
29	CLA	1c	514	-	65,69,73	2.12	18 (27%)	78,108,113	3.02	30 (38%)
33	LHG	00	317	-	48,48,48	0.27	0	51,54,54	0.63	1 (1%)
31	LUT	00	313	-	42,43,43	1.65	8 (19%)	51,60,60	1.56	12 (23%)
30	CHL	06	601	-	50,54,74	2.27	15 (30%)	56,90,114	3.16	21 (37%)
29	CLA	00	309	1	64,68,73	2.19	19 (29%)	77,107,113	2.90	30 (38%)
32	VIV	09	315	-	32,32,32	0.48	1 (3%)	41,45,45	0.84	2 (4%)
33	LHG	1F	101	-	41,41,48	0.31	0	44,46,54	0.39	0
41	SQD	1B	620	-	44,45,54	0.43	1 (2%)	53,56,65	0.55	1 (1%)
40	PL9	1A	410	-	55,55,55	0.69	1 (1%)	68,69,69	0.72	1 (1%)
29	CLA	01	309	-	50,54,73	2.48	20 (40%)	60,90,113	3.19	27 (45%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
33	LHG	1C	519	-	28,28,48	0.37	0	31,34,54	0.45	0
33	LHG	1S	303	-	28,28,48	0.31	0	30,30,54	0.70	1 (3%)
29	CLA	06	602	1	59,63,73	2.35	22 (37%)	71,101,113	3.15	31 (43%)
29	CLA	1s	316	21	50,54,73	2.50	19 (38%)	60,90,113	3.30	27 (45%)
43	LNL	1c	501	-	16,16,19	0.61	0	15,16,19	0.63	0
34	DGD	1B	626	-	49,49,67	1.00	2 (4%)	63,63,81	1.26	7 (11%)
35	BCR	1B	618	-	41,41,41	1.71	8 (19%)	56,56,56	1.76	14 (25%)
33	LHG	1W	102	-	43,43,48	0.31	0	46,49,54	0.73	1 (2%)
30	CHL	06	604	-	44,49,74	2.36	16 (36%)	48,84,114	3.32	22 (45%)
30	CHL	05	306	-	44,49,74	2.36	18 (40%)	48,84,114	3.35	22 (45%)
30	CHL	07	311	2	44,49,74	2.32	17 (38%)	48,84,114	3.23	21 (43%)
33	LHG	1b	626	-	31,31,48	0.32	0	34,37,54	0.39	0
29	CLA	02	602	-	47,52,73	2.54	20 (42%)	56,88,113	3.35	26 (46%)
29	CLA	02	612	1	47,52,73	2.54	19 (40%)	56,88,113	3.54	26 (46%)
35	BCR	1i	101	-	41,41,41	1.71	8 (19%)	56,56,56	1.61	11 (19%)
30	CHL	08	305	-	44,47,74	2.11	14 (31%)	48,80,114	3.29	21 (43%)
29	CLA	01	307	1	60,64,73	2.26	19 (31%)	72,102,113	2.97	31 (43%)
29	CLA	1G	612	1	59,63,73	2.25	20 (33%)	71,101,113	3.04	30 (42%)
29	CLA	03	309	-	47,52,73	2.57	20 (42%)	56,88,113	3.38	26 (46%)
29	CLA	09	301	1	59,63,73	2.30	19 (32%)	71,101,113	3.09	29 (40%)
30	CHL	09	304	1	44,49,74	2.32	16 (36%)	48,84,114	3.34	22 (45%)
33	LHG	1D	410	-	31,31,48	0.33	0	34,37,54	0.47	0
30	CHL	1r	305	-	50,54,74	2.24	17 (34%)	56,90,114	3.11	23 (41%)
29	CLA	1A	404	6	65,69,73	2.13	19 (29%)	78,108,113	3.03	27 (34%)
35	BCR	04	313	-	41,41,41	1.72	8 (19%)	56,56,56	1.67	12 (21%)
41	SQD	1C	521	-	50,51,54	0.40	1 (2%)	59,62,65	0.43	1 (1%)
29	CLA	1b	617	-	49,53,73	2.49	19 (38%)	59,89,113	3.30	26 (44%)
30	CHL	1S	304	21	50,54,74	2.25	16 (32%)	56,90,114	3.21	23 (41%)
46	XAT	1r	316	-	39,47,47	0.89	0	54,74,74	3.46	24 (44%)
29	CLA	00	301	1	65,69,73	2.17	19 (29%)	78,108,113	2.95	30 (38%)
33	LHG	09	316	29	36,36,48	0.32	0	39,42,54	0.37	0
33	LHG	00	321	-	43,43,48	0.30	0	46,49,54	0.37	0
41	SQD	1S	302	-	45,46,54	0.44	1 (2%)	54,57,65	0.40	0
29	CLA	1B	608	-	69,73,73	2.12	18 (26%)	83,113,113	2.89	28 (33%)
42	MGE	1s	320	-	41,41,48	0.25	0	49,49,56	0.79	1 (2%)
29	CLA	1S	311	33	45,49,73	2.59	20 (44%)	54,84,113	3.44	26 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
33	LHG	1w	103	-	41,41,48	0.30	0	44,47,54	0.34	0
29	CLA	08	310	3	41,46,73	2.64	19 (46%)	51,80,113	3.54	27 (52%)
29	CLA	1R	307	-	43,48,73	2.65	19 (44%)	51,83,113	3.52	28 (54%)
33	LHG	1N	318	-	47,47,48	0.28	0	50,53,54	0.43	1 (2%)
30	CHL	00	304	1	48,53,74	2.26	17 (35%)	53,89,114	3.20	21 (39%)
33	LHG	1t	101	-	35,38,48	0.26	0	36,41,54	0.34	0
29	CLA	01	301	-	58,62,73	2.35	20 (34%)	69,99,113	3.13	30 (43%)
38	PHO	1A	405	-	58,69,69	0.80	3 (5%)	56,99,99	1.07	4 (7%)
29	CLA	02	613	-	50,54,73	2.49	19 (38%)	60,90,113	3.32	28 (46%)
30	CHL	09	305	-	47,51,74	2.19	17 (36%)	52,86,114	3.17	25 (48%)
41	SQD	1D	411	-	45,46,54	0.44	0	54,57,65	1.05	6 (11%)
40	PL9	1r	301	-	55,55,55	0.66	1 (1%)	68,69,69	0.86	4 (5%)
29	CLA	1B	612	7	69,73,73	2.09	19 (27%)	83,113,113	2.84	30 (36%)
45	HEM	1f	101	11	50,50,50	1.57	7 (14%)	66,82,82	1.64	11 (16%)
29	CLA	1S	310	21	45,49,73	2.66	19 (42%)	54,84,113	3.40	29 (53%)
29	CLA	03	308	2	43,48,73	2.60	18 (41%)	52,82,113	3.51	30 (57%)
29	CLA	1B	616	7	63,67,73	2.17	19 (30%)	75,105,113	3.11	33 (44%)
33	LHG	1N	301	-	39,39,48	0.29	0	42,45,54	0.36	0
30	CHL	1n	607	-	70,74,74	1.89	19 (27%)	80,114,114	2.74	24 (30%)
29	CLA	1C	513	8	45,49,73	2.59	19 (42%)	54,84,113	3.53	27 (50%)
30	CHL	08	301	-	44,49,74	2.37	16 (36%)	48,84,114	3.23	23 (47%)
31	LUT	1N	316	-	41,42,43	1.62	8 (19%)	48,57,60	1.63	12 (25%)
41	SQD	1D	412	-	42,43,54	0.43	1 (2%)	51,54,65	0.66	2 (3%)
30	CHL	1s	308	-	50,54,74	2.22	18 (36%)	56,90,114	3.15	22 (39%)
33	LHG	1c	521	-	41,41,48	0.29	0	44,47,54	0.39	0
29	CLA	1c	505	8	69,73,73	2.07	20 (28%)	83,113,113	2.91	31 (37%)
30	CHL	1g	609	1	65,69,74	1.97	18 (27%)	74,108,114	2.76	26 (35%)
30	CHL	1r	307	-	50,54,74	2.23	17 (34%)	56,90,114	3.17	20 (35%)
35	BCR	1Z	102	-	41,41,41	1.68	8 (19%)	56,56,56	1.83	17 (30%)
41	SQD	1l	101	-	41,42,54	0.44	1 (2%)	50,53,65	0.76	2 (4%)
44	BCT	1d	408	36	2,3,3	0.98	0	2,3,3	0.37	0
31	LUT	1s	317	-	42,43,43	1.69	8 (19%)	51,60,60	1.81	14 (27%)
30	CHL	03	303	-	48,53,74	2.26	15 (31%)	53,89,114	3.06	20 (37%)
29	CLA	01	312	-	50,54,73	2.52	20 (40%)	60,90,113	3.27	27 (45%)
30	CHL	04	301	-	50,54,74	2.24	18 (36%)	56,90,114	3.09	25 (44%)
30	CHL	03	302	2	44,48,74	2.26	16 (36%)	46,82,114	3.39	20 (43%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
30	CHL	09	307	-	47,51,74	2.21	16 (34%)	52,86,114	3.28	23 (44%)
33	LHG	1a	401	-	31,31,48	0.34	0	34,37,54	0.48	0
29	CLA	03	301	2	64,68,73	2.22	19 (29%)	77,107,113	3.01	30 (38%)
29	CLA	04	310	-	47,52,73	2.59	20 (42%)	56,88,113	3.41	26 (46%)
29	CLA	02	611	-	47,52,73	2.56	20 (42%)	56,88,113	3.33	26 (46%)
29	CLA	06	610	-	44,49,73	2.58	19 (43%)	52,84,113	3.45	26 (50%)
29	CLA	01	310	1	69,73,73	2.13	20 (28%)	83,113,113	2.90	30 (36%)
29	CLA	1b	607	7	54,58,73	2.40	19 (35%)	65,95,113	3.24	31 (47%)
29	CLA	1n	602	1	60,64,73	2.27	19 (31%)	72,102,113	3.02	31 (43%)
38	PHO	1d	404	-	58,69,69	0.82	2 (3%)	56,99,99	1.07	5 (8%)
35	BCR	1A	409	-	41,41,41	1.71	8 (19%)	56,56,56	1.71	12 (21%)
31	LUT	1S	318	-	42,43,43	1.63	8 (19%)	51,60,60	1.65	14 (27%)
29	CLA	03	312	-	47,52,73	2.55	20 (42%)	56,88,113	3.34	26 (46%)
31	LUT	01	315	-	42,43,43	1.62	8 (19%)	51,60,60	2.11	18 (35%)
29	CLA	05	310	1	44,49,73	2.56	19 (43%)	52,84,113	3.46	26 (50%)
29	CLA	1N	313	-	44,49,73	2.57	18 (40%)	52,84,113	3.48	27 (51%)
41	SQD	1d	405	-	47,48,54	0.42	1 (2%)	56,59,65	0.65	2 (3%)
35	BCR	1b	619	-	41,41,41	1.68	8 (19%)	56,56,56	1.73	15 (26%)
29	CLA	1R	309	20	47,52,73	2.66	24 (51%)	56,88,113	3.72	28 (50%)
35	BCR	1B	630	-	41,41,41	1.68	10 (24%)	56,56,56	1.83	15 (26%)
30	CHL	04	303	-	50,54,74	2.23	20 (40%)	56,90,114	3.16	22 (39%)
33	LHG	1c	522	-	27,27,48	0.46	0	31,32,54	0.64	1 (3%)
42	MGE	1C	524	-	45,45,48	0.24	0	53,53,56	0.52	0
29	CLA	1R	310	-	52,57,73	2.45	20 (38%)	62,94,113	3.22	29 (46%)
30	CHL	1N	309	-	49,53,74	2.15	16 (32%)	53,88,114	3.29	23 (43%)
30	CHL	00	305	-	51,55,74	2.16	17 (33%)	57,91,114	3.08	23 (40%)
29	CLA	1c	506	-	59,63,73	2.25	20 (33%)	71,101,113	3.00	29 (40%)
29	CLA	1n	612	-	49,53,73	2.50	20 (40%)	59,89,113	3.34	28 (47%)
29	CLA	1G	602	1	69,73,73	2.10	19 (27%)	83,113,113	2.83	30 (36%)
35	BCR	1D	406	-	41,41,41	1.75	8 (19%)	56,56,56	1.78	14 (25%)
42	MGE	1B	624	-	43,43,48	0.33	0	51,51,56	0.53	0
33	LHG	1v	201	-	40,40,48	0.29	0	43,46,54	0.39	0
29	CLA	1g	604	-	54,58,73	2.37	18 (33%)	65,95,113	3.10	30 (46%)
33	LHG	1E	101	-	29,29,48	0.32	0	32,35,54	0.40	0
30	CHL	07	303	2	44,49,74	2.33	17 (38%)	48,84,114	3.34	21 (43%)
46	XAT	1R	316	-	39,47,47	0.96	0	54,74,74	3.50	28 (51%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
30	CHL	1s	304	21	50,54,74	2.24	18 (36%)	56,90,114	3.13	22 (39%)
30	CHL	1n	609	1	65,69,74	1.95	18 (27%)	74,108,114	2.84	25 (33%)
29	CLA	03	307	-	44,49,73	2.55	19 (43%)	52,84,113	3.46	26 (50%)
40	PL9	1a	412	-	55,55,55	0.58	1 (1%)	68,69,69	1.85	20 (29%)
30	CHL	07	304	2	44,49,74	2.36	16 (36%)	48,84,114	3.32	22 (45%)
29	CLA	06	609	-	44,49,73	2.56	19 (43%)	52,84,113	3.47	26 (50%)
29	CLA	1s	311	-	46,50,73	2.52	18 (39%)	55,85,113	3.43	27 (49%)
29	CLA	1C	501	8	69,73,73	2.15	20 (28%)	83,113,113	2.85	29 (34%)
29	CLA	07	301	-	43,48,73	2.62	20 (46%)	51,83,113	3.46	28 (54%)
29	CLA	05	311	-	43,48,73	2.62	19 (44%)	51,83,113	3.59	30 (58%)
31	LUT	09	314	-	42,43,43	1.65	8 (19%)	51,60,60	1.62	12 (23%)
34	DGD	1B	625	-	63,63,67	0.86	2 (3%)	77,77,81	0.88	2 (2%)
29	CLA	1s	314	-	47,52,73	2.55	19 (40%)	56,88,113	3.37	26 (46%)
29	CLA	1c	504	-	64,68,73	2.12	18 (28%)	77,107,113	2.97	30 (38%)
30	CHL	03	305	-	50,54,74	2.23	18 (36%)	56,90,114	3.14	21 (37%)
29	CLA	08	309	3	43,48,73	2.74	19 (44%)	51,83,113	3.49	28 (54%)
33	LHG	1D	413	-	40,40,48	0.30	0	43,45,54	0.36	0
34	DGD	1B	627	-	63,63,67	0.89	3 (4%)	77,77,81	1.08	6 (7%)
29	CLA	1D	404	9	69,73,73	2.01	19 (27%)	83,113,113	2.76	30 (36%)
30	CHL	1G	606	-	50,54,74	2.23	18 (36%)	56,90,114	3.17	23 (41%)
33	LHG	1b	623	-	26,26,48	0.38	0	29,31,54	0.92	2 (6%)
35	BCR	1B	617	-	41,41,41	1.69	9 (21%)	56,56,56	1.78	13 (23%)
29	CLA	1S	305	21	45,49,73	2.58	19 (42%)	54,84,113	3.46	29 (53%)
29	CLA	1s	306	21	50,54,73	2.58	20 (40%)	60,90,113	3.36	28 (46%)
33	LHG	1L	101	-	48,48,48	0.28	0	51,54,54	0.39	0
33	LHG	1C	523	-	38,38,48	0.31	0	41,44,54	0.38	0
30	CHL	05	304	-	48,53,74	2.21	15 (31%)	53,89,114	2.77	19 (35%)
30	CHL	01	304	-	67,71,74	1.93	17 (25%)	76,110,114	2.82	25 (32%)
30	CHL	02	601	-	50,54,74	2.24	16 (32%)	56,90,114	3.13	21 (37%)
30	CHL	07	305	-	42,47,74	2.30	16 (38%)	48,81,114	3.34	21 (43%)
41	SQD	1B	629	-	39,40,54	0.44	1 (2%)	48,51,65	0.39	0
29	CLA	1a	405	6	56,60,73	2.29	19 (33%)	67,97,113	3.14	31 (46%)
30	CHL	1N	310	1	70,74,74	1.90	19 (27%)	80,114,114	2.68	24 (30%)
30	CHL	1g	607	-	51,55,74	2.21	19 (37%)	57,91,114	3.05	22 (38%)
29	CLA	1g	603	-	50,54,73	2.45	18 (36%)	60,90,113	3.28	29 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	1r	311	-	49,53,73	2.53	19 (38%)	59,89,113	3.33	26 (44%)
29	CLA	1b	603	7	60,64,73	2.19	16 (26%)	72,102,113	3.06	30 (41%)
29	CLA	04	306	3	47,52,73	2.57	20 (42%)	56,88,113	3.29	26 (46%)
30	CHL	1S	308	-	46,50,74	2.31	18 (39%)	51,85,114	3.33	24 (47%)
29	CLA	1C	511	-	50,54,73	2.42	19 (38%)	60,90,113	3.38	28 (46%)
30	CHL	1R	313	20	48,53,74	2.27	17 (35%)	53,89,114	3.14	22 (41%)
33	LHG	1b	625	-	44,44,48	0.29	0	47,50,54	0.33	0
30	CHL	05	313	1	44,49,74	2.34	15 (34%)	48,84,114	3.32	21 (43%)
29	CLA	06	608	-	43,48,73	2.66	20 (46%)	51,83,113	3.48	27 (52%)
30	CHL	02	604	-	48,53,74	2.28	15 (31%)	53,89,114	3.16	20 (37%)
31	LUT	1s	318	-	42,43,43	1.79	8 (19%)	51,60,60	1.99	17 (33%)
30	CHL	08	303	-	48,53,74	2.23	18 (37%)	53,89,114	3.13	20 (37%)
31	LUT	01	314	-	42,43,43	1.66	8 (19%)	51,60,60	1.98	15 (29%)
29	CLA	00	310	33	55,59,73	2.38	19 (34%)	66,96,113	3.21	30 (45%)
30	CHL	03	311	-	46,50,74	2.34	19 (41%)	51,85,114	3.33	24 (47%)
29	CLA	04	309	3	47,52,73	2.58	20 (42%)	56,88,113	3.37	29 (51%)
30	CHL	08	302	-	44,49,74	2.36	18 (40%)	48,84,114	3.36	22 (45%)
29	CLA	09	302	-	60,64,73	2.25	18 (30%)	72,102,113	3.14	31 (43%)
33	LHG	1s	319	-	26,26,48	0.33	0	28,28,54	0.48	0
30	CHL	08	304	3	44,49,74	2.35	17 (38%)	48,84,114	3.34	22 (45%)
29	CLA	1c	510	8	63,67,73	2.11	17 (26%)	75,105,113	2.94	31 (41%)
30	CHL	01	306	1	66,70,74	1.97	19 (28%)	75,109,114	2.75	24 (32%)
29	CLA	1B	604	7	60,64,73	2.25	18 (30%)	72,102,113	3.05	31 (43%)
35	BCR	1J	101	-	41,41,41	1.72	8 (19%)	56,56,56	1.96	15 (26%)
29	CLA	1G	614	33	46,50,73	2.51	19 (41%)	55,85,113	3.41	29 (52%)
29	CLA	1c	513	8	49,53,73	2.49	20 (40%)	59,89,113	3.40	28 (47%)
29	CLA	06	611	-	43,48,73	2.66	20 (46%)	51,83,113	3.53	26 (50%)
35	BCR	1h	101	-	41,41,41	1.79	10 (24%)	56,56,56	2.06	18 (32%)
30	CHL	1G	601	-	70,74,74	1.87	17 (24%)	80,114,114	2.70	25 (31%)
31	LUT	1G	615	-	42,43,43	1.71	8 (19%)	51,60,60	1.59	11 (21%)
33	LHG	03	314	-	44,44,48	0.29	0	47,50,54	0.37	0
29	CLA	09	312	1	47,52,73	2.55	20 (42%)	56,88,113	3.32	26 (46%)
30	CHL	04	302	-	44,49,74	2.30	17 (38%)	49,83,114	3.38	25 (51%)
29	CLA	1n	610	1	62,66,73	2.28	18 (29%)	74,104,113	3.05	34 (45%)
29	CLA	1n	611	33	61,65,73	2.26	20 (32%)	73,103,113	3.08	31 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	1B	613	-	62,66,73	2.20	19 (30%)	74,104,113	3.20	30 (40%)
29	CLA	1G	610	1	47,52,73	2.55	18 (38%)	56,88,113	3.34	25 (44%)
33	LHG	1n	617	-	36,37,48	0.28	0	38,39,54	1.47	4 (10%)
29	CLA	1S	315	21	47,52,73	2.69	21 (44%)	56,88,113	3.39	24 (42%)
33	LHG	1b	624	-	35,35,48	0.31	0	38,41,54	0.53	0
46	XAT	1g	619	-	39,47,47	0.98	1 (2%)	54,74,74	3.92	31 (57%)
34	DGD	1c	520	-	58,58,67	0.89	2 (3%)	72,72,81	0.90	3 (4%)
31	LUT	1n	615	-	42,43,43	1.71	8 (19%)	51,60,60	1.71	11 (21%)
34	DGD	00	320	-	62,62,67	0.90	2 (3%)	76,76,81	0.89	2 (2%)
29	CLA	04	311	-	47,52,73	2.57	20 (42%)	56,88,113	3.36	26 (46%)
29	CLA	1r	310	33	46,50,73	2.52	19 (41%)	55,85,113	3.41	26 (47%)
29	CLA	1C	502	8	65,69,73	2.11	18 (27%)	78,108,113	2.92	29 (37%)
29	CLA	1b	612	7	69,73,73	2.01	17 (24%)	83,113,113	2.70	29 (34%)
33	LHG	1V	201	-	48,48,48	0.27	0	51,54,54	0.34	0
34	DGD	1A	414	-	56,56,67	0.90	2 (3%)	70,70,81	0.95	3 (4%)
41	SQD	1c	517	-	53,54,54	0.39	1 (1%)	62,65,65	0.89	4 (6%)
30	CHL	05	305	-	67,71,74	1.93	18 (26%)	76,110,114	2.80	27 (35%)
30	CHL	02	603	-	50,54,74	2.25	16 (32%)	56,90,114	3.17	22 (39%)
30	CHL	01	305	-	50,54,74	2.21	19 (38%)	56,90,114	3.04	20 (35%)
41	SQD	1L	102	-	52,53,54	0.39	1 (1%)	61,64,65	0.63	1 (1%)
41	SQD	1a	411	-	45,46,54	0.41	1 (2%)	54,57,65	0.52	1 (1%)
29	CLA	1g	611	33	46,50,73	2.47	18 (39%)	55,85,113	3.34	27 (49%)
33	LHG	1d	402	-	37,37,48	0.33	0	40,43,54	0.38	0
33	LHG	1e	102	-	41,41,48	0.29	0	44,47,54	0.39	0
29	CLA	1B	603	7	69,73,73	2.07	18 (26%)	83,113,113	2.91	30 (36%)
29	CLA	1b	611	-	69,73,73	2.13	20 (28%)	83,113,113	2.93	29 (34%)
35	BCR	1Z	101	-	41,41,41	1.70	8 (19%)	56,56,56	1.69	12 (21%)
29	CLA	1C	505	8	64,68,73	2.17	19 (29%)	77,107,113	2.97	30 (38%)
29	CLA	1b	615	7	69,73,73	2.13	20 (28%)	83,113,113	2.83	30 (36%)
29	CLA	08	308	3	44,49,73	2.57	18 (40%)	52,84,113	3.38	26 (50%)
31	LUT	1G	616	-	42,43,43	1.67	8 (19%)	51,60,60	1.98	12 (23%)
33	LHG	1C	525	-	39,39,48	0.31	0	42,44,54	0.73	1 (2%)
33	LHG	1C	527	-	36,36,48	0.34	0	39,42,54	0.53	1 (2%)
41	SQD	1m	101	-	41,42,54	0.44	1 (2%)	50,53,65	0.46	0
41	SQD	1a	410	-	49,50,54	0.40	1 (2%)	58,61,65	0.93	3 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	1S	306	-	43,48,73	2.62	20 (46%)	51,83,113	3.47	27 (52%)
30	CHL	1S	309	-	46,50,74	2.34	17 (36%)	51,85,114	3.32	23 (45%)
29	CLA	01	313	-	50,54,73	2.52	20 (40%)	60,90,113	3.32	28 (46%)
30	CHL	06	603	-	42,48,74	2.32	14 (33%)	46,82,114	3.39	23 (50%)
35	BCR	1c	516	-	41,41,41	1.71	8 (19%)	56,56,56	1.68	16 (28%)
29	CLA	00	311	-	49,53,73	2.47	18 (36%)	59,89,113	3.43	27 (45%)
30	CHL	1R	304	-	45,50,74	2.23	16 (35%)	49,85,114	3.33	22 (44%)
39	OEX	1A	408	6,8	0,14,14	-	-	-		
30	CHL	1G	605	1	44,49,74	2.35	16 (36%)	48,84,114	3.33	22 (45%)
29	CLA	04	312	-	43,48,73	2.65	20 (46%)	51,83,113	3.53	27 (52%)
35	BCR	1b	620	-	41,41,41	1.65	8 (19%)	56,56,56	1.81	16 (28%)
29	CLA	1R	311	-	47,52,73	2.55	19 (40%)	56,88,113	3.38	26 (46%)
33	LHG	1j	102	-	40,40,48	0.29	0	43,46,54	0.78	1 (2%)
30	CHL	1S	307	-	44,49,74	2.37	18 (40%)	48,84,114	3.32	21 (43%)
30	CHL	01	303	-	50,54,74	2.24	18 (36%)	56,90,114	3.13	23 (41%)
29	CLA	00	318	1	64,68,73	2.17	19 (29%)	77,107,113	2.94	29 (37%)
29	CLA	06	607	1	43,48,73	2.67	20 (46%)	51,83,113	3.47	28 (54%)
29	CLA	07	310	-	41,47,73	2.63	19 (46%)	49,81,113	3.57	27 (55%)
35	BCR	1b	601	-	41,41,41	1.87	9 (21%)	56,56,56	2.15	19 (33%)
32	VIV	00	315	-	22,22,32	0.48	0	29,33,45	1.13	2 (6%)
33	LHG	00	319	-	48,48,48	0.27	0	51,54,54	0.40	0
29	CLA	1g	610	1	60,64,73	2.26	18 (30%)	72,102,113	3.00	30 (41%)
30	CHL	1n	601	-	66,70,74	1.94	17 (25%)	75,109,114	2.83	28 (37%)
29	CLA	1s	305	21	49,53,73	2.48	19 (38%)	59,89,113	3.30	26 (44%)
29	CLA	1S	313	21	57,62,73	2.27	18 (31%)	68,100,113	3.11	30 (44%)
33	LHG	1C	520	-	30,31,48	0.34	0	33,37,54	0.41	0
29	CLA	1r	304	-	50,54,73	2.46	19 (38%)	60,90,113	3.25	29 (48%)
31	LUT	1S	317	-	42,43,43	1.62	8 (19%)	51,60,60	1.62	13 (25%)
29	CLA	1D	401	-	69,73,73	2.11	18 (26%)	83,113,113	2.98	32 (38%)
30	CHL	1r	306	-	50,54,74	2.23	18 (36%)	56,90,114	3.18	24 (42%)
29	CLA	04	308	-	43,48,73	2.66	20 (46%)	51,83,113	3.52	28 (54%)
30	CHL	1g	606	-	54,58,74	2.14	17 (31%)	59,94,114	2.99	23 (38%)
29	CLA	00	312	1	49,53,73	2.48	18 (36%)	59,89,113	3.35	28 (47%)
33	LHG	1w	104	-	36,36,48	0.46	0	38,41,54	0.37	0
29	CLA	1n	614	1	45,49,73	2.63	20 (44%)	54,84,113	3.41	28 (51%)
39	OEX	1a	402	6,8	0,14,14	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
33	LHG	1G	618	29	40,40,48	0.29	0	43,46,54	0.37	0
41	SQD	1b	622	-	47,48,54	0.42	1 (2%)	56,59,65	0.58	2 (3%)
29	CLA	1s	315	21	59,63,73	2.25	19 (32%)	71,101,113	3.05	32 (45%)
40	PL9	1e	101	-	21,21,55	0.86	1 (4%)	27,28,69	1.83	7 (25%)
30	CHL	03	304	-	47,51,74	2.21	18 (38%)	52,86,114	3.28	23 (44%)
29	CLA	05	309	-	43,48,73	2.62	20 (46%)	51,83,113	3.53	25 (49%)
29	CLA	1b	616	-	65,69,73	2.16	18 (27%)	78,108,113	3.02	29 (37%)
29	CLA	02	614	-	47,52,73	2.57	20 (42%)	56,88,113	3.34	26 (46%)
30	CHL	1G	609	1	46,50,74	2.33	17 (36%)	51,85,114	3.33	24 (47%)
29	CLA	1s	313	-	45,49,73	2.61	20 (44%)	54,84,113	3.43	29 (53%)
34	DGD	1c	519	-	53,53,67	0.92	2 (3%)	67,67,81	1.05	5 (7%)
29	CLA	1b	606	7	62,66,73	2.20	18 (29%)	74,104,113	3.20	32 (43%)
29	CLA	00	303	-	54,58,73	2.36	19 (35%)	65,95,113	3.10	31 (47%)
33	LHG	1d	401	-	38,38,48	0.30	0	41,44,54	0.42	0
30	CHL	1R	305	-	44,49,74	2.36	16 (36%)	48,84,114	3.37	21 (43%)
33	LHG	1B	621	-	37,37,48	0.30	0	40,43,54	0.37	0
29	CLA	08	312	-	46,50,73	2.53	18 (39%)	55,85,113	3.41	29 (52%)
29	CLA	1C	512	8	59,63,73	2.31	18 (30%)	71,101,113	3.11	33 (46%)
30	CHL	04	304	-	47,51,74	2.22	15 (31%)	52,86,114	3.27	23 (44%)
29	CLA	1r	312	20	56,60,73	2.37	20 (35%)	67,97,113	3.20	31 (46%)
30	CHL	1s	309	-	46,50,74	2.36	19 (41%)	51,85,114	3.32	25 (49%)
35	BCR	1k	102	-	41,41,41	1.81	8 (19%)	56,56,56	1.83	13 (23%)
29	CLA	1S	314	21	45,49,73	2.64	20 (44%)	54,84,113	3.43	29 (53%)
31	LUT	03	313	-	42,43,43	1.64	8 (19%)	51,60,60	1.70	12 (23%)
42	MGE	1B	623	-	44,44,48	0.25	0	52,52,56	0.65	1 (1%)
33	LHG	1s	303	-	28,28,48	0.31	0	30,30,54	0.84	1 (3%)
29	CLA	1c	515	8	63,67,73	2.23	20 (31%)	75,105,113	3.05	30 (40%)
30	CHL	02	605	-	48,53,74	2.25	19 (39%)	53,89,114	2.95	21 (39%)
29	CLA	1N	303	-	69,73,73	2.10	19 (27%)	83,113,113	2.88	31 (37%)
29	CLA	04	314	-	45,49,73	2.64	20 (44%)	54,84,113	3.45	30 (55%)
41	SQD	1A	412	-	41,42,54	0.46	1 (2%)	50,53,65	0.63	1 (2%)
29	CLA	1N	304	-	49,53,73	2.50	19 (38%)	59,89,113	3.33	27 (45%)
33	LHG	1s	302	-	28,28,48	0.37	0	31,33,54	0.44	0
29	CLA	02	608	1	43,48,73	2.68	19 (44%)	51,83,113	3.45	28 (54%)
31	LUT	00	314	-	42,43,43	1.63	8 (19%)	51,60,60	1.60	10 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
30	CHL	1N	306	1	46,50,74	2.35	18 (39%)	51,85,114	3.34	24 (47%)
41	SQD	1B	622	-	49,50,54	0.41	1 (2%)	58,61,65	0.64	1 (1%)
29	CLA	1B	610	-	69,73,73	2.03	17 (24%)	83,113,113	2.77	31 (37%)
30	CHL	1g	605	1	50,54,74	2.24	16 (32%)	56,90,114	3.19	23 (41%)
41	SQD	1A	411	-	47,48,54	0.39	1 (2%)	56,59,65	0.46	0
29	CLA	1B	609	7	69,73,73	2.05	19 (27%)	83,113,113	2.71	28 (33%)
29	CLA	1d	406	9	64,68,73	2.15	18 (28%)	77,107,113	2.94	32 (41%)
40	PL9	1D	407	-	55,55,55	0.81	1 (1%)	68,69,69	0.59	2 (2%)
29	CLA	1c	503	8	69,73,73	2.13	19 (27%)	83,113,113	2.87	29 (34%)
29	CLA	1g	612	-	64,68,73	2.20	19 (29%)	77,107,113	3.01	30 (38%)
30	CHL	04	305	-	45,50,74	2.24	15 (33%)	49,85,114	3.25	22 (44%)
29	CLA	09	309	1	45,49,73	2.59	19 (42%)	54,84,113	3.37	28 (51%)
33	LHG	1w	102	-	34,34,48	0.34	0	37,39,54	0.40	0
29	CLA	1n	613	1	61,65,73	2.25	18 (29%)	73,103,113	2.84	29 (39%)
33	LHG	1I	101	-	31,31,48	0.43	0	35,36,54	0.56	1 (2%)
41	SQD	1b	621	-	53,54,54	0.39	1 (1%)	62,65,65	0.88	3 (4%)
35	BCR	1j	101	-	41,41,41	1.78	8 (19%)	56,56,56	2.11	15 (26%)
33	LHG	1P	201	-	44,44,48	0.28	0	47,49,54	0.35	0
35	BCR	1I	102	-	41,41,41	1.70	8 (19%)	56,56,56	1.64	12 (21%)
29	CLA	05	301	1	45,49,73	2.64	20 (44%)	54,84,113	3.41	28 (51%)
29	CLA	1r	308	20	56,60,73	2.32	20 (35%)	67,97,113	3.14	30 (44%)
29	CLA	1G	604	-	45,49,73	2.60	19 (42%)	54,84,113	3.39	29 (53%)
29	CLA	1R	302	20	64,68,73	2.19	19 (29%)	77,107,113	2.99	31 (40%)
29	CLA	00	302	-	69,73,73	2.11	20 (28%)	83,113,113	2.94	32 (38%)
33	LHG	1n	616	29	42,42,48	0.29	0	45,48,54	0.43	0
33	LHG	09	318	-	48,48,48	0.29	0	51,54,54	0.38	0
34	DGD	1c	518	-	48,48,67	0.98	2 (4%)	62,62,81	1.20	7 (11%)
31	LUT	1R	315	-	42,43,43	1.69	8 (19%)	51,60,60	1.81	11 (21%)
29	CLA	1n	603	-	61,65,73	2.24	20 (32%)	73,103,113	3.01	31 (42%)
41	SQD	1A	413	-	44,45,54	0.43	1 (2%)	53,56,65	1.12	5 (9%)
30	CHL	09	306	-	47,51,74	2.17	17 (36%)	52,86,114	3.30	20 (38%)
29	CLA	07	312	-	47,52,73	2.57	20 (42%)	56,88,113	3.34	27 (48%)
29	CLA	07	308	-	45,49,73	2.59	20 (44%)	54,84,113	3.47	28 (51%)
29	CLA	1G	613	1	47,52,73	2.55	20 (42%)	56,88,113	3.36	25 (44%)
29	CLA	04	307	-	47,52,73	2.56	20 (42%)	56,88,113	3.33	26 (46%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
31	LUT	09	313	-	42,43,43	1.74	8 (19%)	51,60,60	1.67	11 (21%)
41	SQD	1s	301	-	43,44,54	0.44	1 (2%)	52,55,65	0.48	0
35	BCR	1B	619	-	41,41,41	1.69	9 (21%)	56,56,56	1.98	17 (30%)
35	BCR	1a	409	-	41,41,41	1.72	8 (19%)	56,56,56	1.65	13 (23%)
30	CHL	00	307	-	70,74,74	1.89	18 (25%)	80,114,114	2.78	25 (31%)
34	DGD	1C	518	-	61,61,67	0.85	2 (3%)	75,75,81	0.96	4 (5%)
38	PHO	1a	407	-	34,45,69	1.05	2 (5%)	28,70,99	1.48	5 (17%)
29	CLA	1b	614	7	64,68,73	2.28	20 (31%)	77,107,113	3.29	31 (40%)
42	MGE	1k	101	-	36,36,48	0.29	0	44,44,56	0.59	0
29	CLA	1c	511	8	49,53,73	2.55	20 (40%)	59,89,113	3.32	28 (47%)
29	CLA	1D	405	9	46,50,73	2.51	19 (41%)	55,85,113	3.45	27 (49%)
29	CLA	1G	603	-	49,53,73	2.49	19 (38%)	59,89,113	3.29	29 (49%)
29	CLA	1R	312	-	50,54,73	2.47	19 (38%)	60,90,113	3.25	27 (45%)
29	CLA	1r	314	20	50,54,73	2.48	20 (40%)	60,90,113	3.37	28 (46%)
33	LHG	1C	526	-	31,31,48	0.43	0	35,36,54	0.74	2 (5%)
33	LHG	1r	317	29	28,28,48	0.36	0	31,33,54	0.76	2 (6%)
29	CLA	05	312	1	43,48,73	2.74	21 (48%)	51,83,113	3.61	28 (54%)
29	CLA	1C	504	-	69,73,73	2.09	19 (27%)	83,113,113	2.86	29 (34%)
29	CLA	1a	408	6	64,68,73	2.16	19 (29%)	77,107,113	2.93	30 (38%)
29	CLA	02	609	-	46,50,73	2.54	19 (41%)	55,85,113	3.46	29 (52%)
40	PL9	1d	410	-	55,55,55	0.78	1 (1%)	68,69,69	0.53	1 (1%)
33	LHG	1K	101	-	42,42,48	0.30	0	45,47,54	0.36	0
29	CLA	03	306	-	41,47,73	2.63	18 (43%)	49,81,113	3.61	27 (55%)
33	LHG	00	316	29	32,32,48	0.34	0	35,37,54	0.37	0
33	LHG	1C	522	-	33,33,48	0.35	0	36,39,54	0.93	1 (2%)
46	XAT	1g	617	-	39,47,47	0.83	0	54,74,74	3.12	23 (42%)
33	LHG	1J	102	-	44,44,48	0.30	0	47,49,54	0.56	0
30	CHL	1g	608	-	47,51,74	2.21	17 (36%)	52,86,114	3.26	25 (48%)
35	BCR	1H	101	-	41,41,41	1.76	8 (19%)	56,56,56	1.74	14 (25%)
29	CLA	1C	508	8	69,73,73	2.12	19 (27%)	83,113,113	2.94	31 (37%)
41	SQD	1w	101	-	39,40,54	0.43	1 (2%)	48,51,65	0.71	1 (2%)
29	CLA	1B	606	7	69,73,73	2.05	18 (26%)	83,113,113	2.67	29 (34%)
30	CHL	1N	308	-	70,74,74	1.87	18 (25%)	80,114,114	2.74	24 (30%)
33	LHG	01	316	-	35,35,48	0.30	0	38,41,54	0.45	0
41	SQD	1B	628	-	53,54,54	0.39	1 (1%)	62,65,65	0.47	1 (1%)
29	CLA	1C	506	-	53,57,73	2.39	19 (35%)	62,93,113	3.32	28 (45%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	09	311	-	45,49,73	2.60	19 (42%)	54,84,113	3.49	27 (50%)
30	CHL	1r	313	20	51,55,74	2.21	16 (31%)	57,91,114	3.12	22 (38%)
34	DGD	1C	516	-	56,56,67	0.89	2 (3%)	70,70,81	0.95	3 (4%)
30	CHL	1R	303	-	45,50,74	2.24	16 (35%)	49,85,114	3.11	22 (44%)
29	CLA	08	306	-	44,49,73	2.55	18 (40%)	52,84,113	3.49	26 (50%)
33	LHG	1S	319	29	30,30,48	0.34	0	33,36,54	0.45	0
43	LNL	1C	515	-	16,16,19	0.62	0	15,16,19	0.64	0
43	LNL	1C	514	-	17,17,19	0.63	0	17,17,19	0.59	0
29	CLA	1g	602	1	64,68,73	2.16	19 (29%)	77,107,113	2.94	30 (38%)
29	CLA	05	308	1	45,49,73	2.67	19 (42%)	54,84,113	3.46	31 (57%)
29	CLA	1b	602	-	69,73,73	2.16	19 (27%)	83,113,113	2.81	27 (32%)
30	CHL	1s	310	-	45,50,74	2.26	16 (35%)	49,85,114	3.26	21 (42%)
33	LHG	1R	318	-	36,36,48	0.30	0	39,42,54	0.36	0
30	CHL	1G	607	-	68,72,74	1.96	19 (27%)	77,111,114	2.75	26 (33%)
29	CLA	1R	308	33	53,57,73	2.43	20 (37%)	62,93,113	3.13	28 (45%)
29	CLA	07	302	2	43,48,73	2.75	21 (48%)	51,83,113	4.03	29 (56%)
44	BCT	1D	403	36	2,3,3	0.96	0	2,3,3	0.36	0
29	CLA	1c	507	8	56,60,73	2.32	20 (35%)	67,97,113	3.14	31 (46%)
31	LUT	1r	315	-	42,43,43	1.69	8 (19%)	51,60,60	1.72	11 (21%)
30	CHL	05	315	-	46,50,74	2.35	16 (34%)	51,85,114	3.31	24 (47%)
29	CLA	1C	510	8	69,73,73	2.10	20 (28%)	83,113,113	2.88	30 (36%)
45	HEM	1E	103	10	50,50,50	1.63	10 (20%)	66,82,82	1.74	12 (18%)
31	LUT	07	313	-	42,43,43	1.58	7 (16%)	51,60,60	1.91	13 (25%)
29	CLA	07	309	2	52,56,73	2.48	19 (36%)	62,92,113	3.29	27 (43%)
30	CHL	1N	302	1	69,73,74	1.91	15 (21%)	78,112,114	2.76	26 (33%)
40	PL9	1E	102	-	55,55,55	0.58	1 (1%)	68,69,69	1.92	22 (32%)
29	CLA	1B	602	7	65,69,73	2.13	19 (29%)	78,108,113	2.75	27 (34%)
30	CHL	00	306	-	70,74,74	1.86	19 (27%)	80,114,114	2.69	23 (28%)
31	LUT	05	314	-	42,43,43	1.70	9 (21%)	51,60,60	1.97	14 (27%)
29	CLA	1g	613	-	59,63,73	2.23	19 (32%)	71,101,113	3.04	28 (39%)
30	CHL	06	606	-	50,54,74	2.25	16 (32%)	56,90,114	3.12	22 (39%)
30	CHL	1n	605	1	50,54,74	2.25	17 (34%)	56,90,114	3.20	21 (37%)
29	CLA	09	317	1	58,62,73	2.27	20 (34%)	69,99,113	3.14	30 (43%)
29	CLA	05	303	-	47,52,73	2.54	19 (40%)	56,88,113	3.27	27 (48%)
33	LHG	1a	413	-	40,40,48	1.01	2 (5%)	43,46,54	1.09	3 (6%)
33	LHG	1S	301	-	33,33,48	0.32	0	36,39,54	0.37	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
29	CLA	1g	614	1	49,53,73	2.51	20 (40%)	59,89,113	3.34	27 (45%)
31	LUT	1g	616	-	42,43,43	1.78	8 (19%)	51,60,60	2.36	14 (27%)
29	CLA	09	310	33	45,49,73	2.61	20 (44%)	54,84,113	3.46	28 (51%)
29	CLA	05	302	1	47,52,73	2.57	19 (40%)	56,88,113	3.40	28 (50%)
29	CLA	1B	601	7	69,73,73	2.04	19 (27%)	83,113,113	2.88	32 (38%)
29	CLA	1R	306	20	48,52,73	2.46	18 (37%)	56,87,113	3.42	27 (48%)
29	CLA	07	307	-	43,48,73	2.64	19 (44%)	51,83,113	3.53	27 (52%)
35	BCR	1d	409	-	41,41,41	1.80	10 (24%)	56,56,56	1.89	17 (30%)
29	CLA	1N	312	33	43,48,73	2.67	20 (46%)	51,83,113	3.51	27 (52%)
30	CHL	1N	307	-	50,54,74	2.20	17 (34%)	56,90,114	3.02	22 (39%)
35	BCR	1b	618	-	41,41,41	1.67	12 (29%)	56,56,56	1.57	12 (21%)
30	CHL	01	302	-	50,54,74	2.24	17 (34%)	56,90,114	3.16	22 (39%)
29	CLA	1r	309	20	60,64,73	2.30	19 (31%)	72,102,113	3.03	33 (45%)
33	LHG	07	314	-	48,48,48	0.29	0	51,54,54	0.67	1 (1%)
31	LUT	1g	615	-	42,43,43	1.73	8 (19%)	51,60,60	1.73	11 (21%)
29	CLA	1D	402	-	54,58,73	2.38	18 (33%)	65,95,113	3.19	30 (46%)
33	LHG	1b	628	-	48,48,48	0.28	0	51,54,54	0.32	0
30	CHL	02	606	-	48,53,74	2.27	16 (33%)	53,89,114	3.14	21 (39%)
29	CLA	1R	314	20	50,54,73	2.50	20 (40%)	60,90,113	3.37	27 (45%)
30	CHL	09	308	1	65,69,74	1.93	18 (27%)	74,108,114	2.71	25 (33%)
34	DGD	1S	320	-	47,47,67	1.02	2 (4%)	61,61,81	1.17	7 (11%)
29	CLA	09	303	-	43,48,73	2.61	19 (44%)	51,83,113	3.36	25 (49%)
29	CLA	1s	307	-	45,49,73	2.58	20 (44%)	54,84,113	3.40	28 (51%)
29	CLA	1n	604	-	45,49,73	2.59	19 (42%)	54,84,113	3.37	29 (53%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	02	610	-	-	2/13/89/115	-
29	CLA	1N	305	-	-	2/10/86/115	-
47	3PH	1X	101	-	-	18/40/40/49	-
46	XAT	1G	619	-	-	10/31/93/93	0/4/4/4
29	CLA	1G	611	-	-	6/13/89/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	1c	509	-	1/1/15/20	9/39/115/115	-
46	XAT	1G	617	-	-	7/31/93/93	0/4/4/4
40	PL9	1R	301	-	-	18/53/73/73	0/1/1/1
29	CLA	1N	311	1	-	2/10/86/115	-
34	DGD	1b	627	-	-	9/51/91/95	0/2/2/2
29	CLA	1c	508	8	1/1/13/20	14/27/103/115	-
34	DGD	1C	517	-	-	11/47/87/95	0/2/2/2
29	CLA	1b	609	7	1/1/15/20	4/39/115/115	-
29	CLA	1B	615	-	-	4/10/86/115	-
33	LHG	1D	409	-	-	7/47/47/53	-
29	CLA	1N	314	1	-	8/24/100/115	-
29	CLA	1c	512	8	1/1/15/20	12/39/115/115	-
29	CLA	03	310	-	-	5/15/91/115	-
29	CLA	1r	303	-	-	3/15/91/115	-
29	CLA	1N	315	1	-	3/10/86/115	-
29	CLA	1r	302	20	-	2/10/86/115	-
29	CLA	01	311	-	-	0/17/93/115	-
29	CLA	1C	509	8	1/1/15/20	11/39/115/115	-
29	CLA	01	308	-	1/1/15/20	16/39/115/115	-
29	CLA	1d	407	9	1/1/13/20	9/27/103/115	-
30	CHL	07	306	-	-	4/10/86/117	-
29	CLA	1s	312	21	1/1/13/20	9/27/103/115	-
30	CHL	1g	601	1	1/1/13/21	13/32/108/117	-
29	CLA	1B	607	7	1/1/14/20	10/36/112/115	-
29	CLA	1b	604	-	1/1/15/20	9/39/115/115	-
33	LHG	1W	101	-	-	6/39/39/53	-
41	SQD	1d	411	-	-	0/34/54/69	0/1/1/1
29	CLA	1B	605	-	1/1/15/20	11/39/115/115	-
29	CLA	1B	611	7	1/1/13/20	8/29/105/115	-
38	PHO	1A	406	-	-	10/37/103/103	0/5/6/6
29	CLA	1b	605	7	-	1/12/88/115	-
29	CLA	1b	613	-	1/1/13/20	19/31/107/115	-
29	CLA	08	307	-	-	2/8/84/115	-
33	LHG	1R	317	29	-	10/42/42/53	-
30	CHL	06	605	-	-	7/15/91/117	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CHL	1G	608	-	-	8/14/90/117	-
29	CLA	1B	614	7	-	6/15/91/115	-
29	CLA	08	311	-	-	1/8/84/115	-
33	LHG	1D	408	-	-	1/35/35/53	-
33	LHG	1N	317	29	-	6/47/47/53	-
30	CHL	05	307	1	-	6/12/88/117	-
29	CLA	1b	608	-	1/1/13/20	10/32/108/115	-
30	CHL	02	607	-	-	11/17/93/117	-
29	CLA	1b	610	7	1/1/14/20	10/35/111/115	-
29	CLA	1a	406	-	-	3/21/97/115	-
30	CHL	1n	608	-	-	6/17/93/117	-
33	LHG	1g	618	29	-	12/40/40/53	-
29	CLA	1d	403	-	1/1/13/20	10/32/108/115	-
30	CHL	00	308	1	1/1/15/21	19/41/117/117	-
29	CLA	1A	407	6	-	3/15/91/115	-
29	CLA	1C	507	8	1/1/13/20	6/31/107/115	-
29	CLA	1S	312	-	-	1/10/86/115	-
33	LHG	1I	103	-	-	4/43/43/53	-
29	CLA	1S	316	-	-	5/17/93/115	-
30	CHL	1n	606	-	-	7/19/95/117	-
29	CLA	1C	503	8	1/1/13/20	6/29/105/115	-
29	CLA	1c	514	-	1/1/14/20	11/35/111/115	-
33	LHG	00	317	-	-	8/53/53/53	-
31	LUT	00	313	-	-	0/29/67/67	0/2/2/2
30	CHL	06	601	-	-	11/17/93/117	-
29	CLA	00	309	1	1/1/14/20	14/33/109/115	-
32	VIV	09	315	-	-	12/19/30/30	0/2/2/2
33	LHG	1F	101	-	-	12/45/45/53	-
41	SQD	1B	620	-	-	7/40/60/69	0/1/1/1
40	PL9	1A	410	-	-	11/53/73/73	0/1/1/1
29	CLA	01	309	-	-	7/17/93/115	-
33	LHG	1C	519	-	-	4/33/33/53	-
33	LHG	1S	303	-	-	3/30/30/53	-
29	CLA	06	602	1	1/1/13/20	6/27/103/115	-
29	CLA	1s	316	21	-	5/17/93/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
43	LNL	1c	501	-	-	2/14/14/17	-
34	DGD	1B	626	-	-	19/37/77/95	0/2/2/2
35	BCR	1B	618	-	-	3/29/63/63	0/2/2/2
33	LHG	1W	102	-	-	21/48/48/53	-
30	CHL	06	604	-	-	3/10/86/117	-
30	CHL	05	306	-	-	2/10/86/117	-
30	CHL	07	311	2	-	8/10/86/117	-
33	LHG	1b	626	-	-	2/36/36/53	-
29	CLA	02	602	-	-	3/13/89/115	-
29	CLA	02	612	1	-	1/13/89/115	-
35	BCR	1i	101	-	-	1/29/63/63	0/2/2/2
30	CHL	08	305	-	-	5/8/80/117	-
29	CLA	01	307	1	1/1/13/20	11/29/105/115	-
29	CLA	1G	612	1	1/1/13/20	14/27/103/115	-
29	CLA	09	301	1	1/1/13/20	12/27/103/115	-
29	CLA	03	309	-	-	5/13/89/115	-
30	CHL	09	304	1	-	6/10/86/117	-
33	LHG	1D	410	-	-	3/36/36/53	-
30	CHL	1r	305	-	-	9/17/93/117	-
29	CLA	1A	404	6	1/1/14/20	8/35/111/115	-
35	BCR	04	313	-	-	6/29/63/63	0/2/2/2
41	SQD	1C	521	-	-	5/46/66/69	0/1/1/1
29	CLA	1b	617	-	-	8/15/91/115	-
30	CHL	1S	304	21	-	7/17/93/117	-
46	XAT	1r	316	-	-	5/31/93/93	0/4/4/4
29	CLA	00	301	1	1/1/14/20	9/35/111/115	-
33	LHG	09	316	29	-	5/41/41/53	-
33	LHG	00	321	-	-	13/48/48/53	-
41	SQD	1S	302	-	-	6/41/61/69	0/1/1/1
29	CLA	1B	608	-	1/1/15/20	17/39/115/115	-
42	MGE	1s	320	-	-	12/36/56/63	0/1/1/1
29	CLA	1S	311	33	-	2/10/86/115	-
33	LHG	1w	103	-	-	7/46/46/53	-
29	CLA	08	310	3	-	0/4/80/115	-
29	CLA	1R	307	-	-	2/8/84/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	LHG	1N	318	-	-	13/52/52/53	-
30	CHL	00	304	1	-	8/15/91/117	-
33	LHG	1t	101	-	-	7/38/40/53	-
29	CLA	01	301	-	-	14/26/102/115	-
38	PHO	1A	405	-	-	7/37/103/103	0/5/6/6
29	CLA	02	613	-	-	7/17/93/115	-
30	CHL	09	305	-	-	4/14/90/117	-
41	SQD	1D	411	-	-	9/41/61/69	0/1/1/1
40	PL9	1r	301	-	-	13/53/73/73	0/1/1/1
29	CLA	1B	612	7	1/1/15/20	16/39/115/115	-
45	HEM	1f	101	11	-	8/14/54/54	-
29	CLA	1S	310	21	-	0/10/86/115	-
29	CLA	03	308	2	-	2/10/82/115	-
29	CLA	1B	616	7	1/1/13/20	5/32/108/115	-
33	LHG	1N	301	-	-	6/44/44/53	-
30	CHL	1n	607	-	1/1/15/21	23/41/117/117	-
29	CLA	1C	513	8	-	5/10/86/115	-
30	CHL	08	301	-	-	4/10/86/117	-
31	LUT	1N	316	-	-	0/29/64/67	0/2/2/2
41	SQD	1D	412	-	-	4/38/58/69	0/1/1/1
30	CHL	1s	308	-	-	13/17/93/117	-
33	LHG	1c	521	-	-	9/46/46/53	-
29	CLA	1c	505	8	1/1/15/20	15/39/115/115	-
30	CHL	1g	609	1	1/1/14/21	13/35/111/117	-
30	CHL	1r	307	-	-	7/17/93/117	-
35	BCR	1Z	102	-	-	4/29/63/63	0/2/2/2
41	SQD	1l	101	-	-	4/37/57/69	0/1/1/1
31	LUT	1s	317	-	-	4/29/67/67	0/2/2/2
30	CHL	03	303	-	-	9/15/91/117	-
29	CLA	01	312	-	-	5/17/93/115	-
30	CHL	04	301	-	-	10/17/93/117	-
30	CHL	03	302	2	-	4/6/84/117	-
30	CHL	09	307	-	-	2/14/90/117	-
33	LHG	1a	401	-	-	4/36/36/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	03	301	2	1/1/14/20	6/33/109/115	-
29	CLA	04	310	-	-	2/13/89/115	-
29	CLA	02	611	-	-	2/13/89/115	-
29	CLA	06	610	-	-	0/10/86/115	-
29	CLA	01	310	1	1/1/15/20	11/39/115/115	-
29	CLA	1b	607	7	-	4/21/97/115	-
29	CLA	1n	602	1	1/1/13/20	5/29/105/115	-
38	PHO	1d	404	-	-	3/37/103/103	0/5/6/6
35	BCR	1A	409	-	-	3/29/63/63	0/2/2/2
31	LUT	1S	318	-	-	1/29/67/67	0/2/2/2
29	CLA	03	312	-	-	2/13/89/115	-
31	LUT	01	315	-	-	1/29/67/67	0/2/2/2
29	CLA	05	310	1	-	2/10/86/115	-
29	CLA	1N	313	-	-	3/10/86/115	-
41	SQD	1d	405	-	-	3/43/63/69	0/1/1/1
35	BCR	1b	619	-	-	4/29/63/63	0/2/2/2
29	CLA	1R	309	20	-	7/13/89/115	-
35	BCR	1B	630	-	-	2/29/63/63	0/2/2/2
30	CHL	04	303	-	-	6/17/93/117	-
33	LHG	1c	522	-	-	6/29/29/53	-
42	MGE	1C	524	-	-	6/40/60/63	0/1/1/1
29	CLA	1R	310	-	-	3/19/95/115	-
30	CHL	1N	309	-	-	6/15/92/117	-
30	CHL	00	305	-	-	8/19/95/117	-
29	CLA	1c	506	-	1/1/13/20	8/27/103/115	-
29	CLA	1n	612	-	-	7/15/91/115	-
29	CLA	1G	602	1	1/1/15/20	18/39/115/115	-
35	BCR	1D	406	-	-	4/29/63/63	0/2/2/2
42	MGE	1B	624	-	-	4/38/58/63	0/1/1/1
33	LHG	1v	201	-	-	8/45/45/53	-
29	CLA	1g	604	-	-	8/21/97/115	-
33	LHG	1E	101	-	-	8/34/34/53	-
30	CHL	07	303	2	-	6/10/86/117	-
46	XAT	1R	316	-	-	4/31/93/93	0/4/4/4
30	CHL	1s	304	21	-	11/17/93/117	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CHL	1n	609	1	1/1/14/21	21/35/111/117	-
29	CLA	03	307	-	-	3/10/86/115	-
40	PL9	1a	412	-	-	16/53/73/73	0/1/1/1
30	CHL	07	304	2	-	4/10/86/117	-
29	CLA	06	609	-	-	0/10/86/115	-
29	CLA	1s	311	-	-	1/12/88/115	-
29	CLA	1C	501	8	1/1/15/20	9/39/115/115	-
29	CLA	07	301	-	-	2/8/84/115	-
29	CLA	05	311	-	-	0/8/84/115	-
31	LUT	09	314	-	-	0/29/67/67	0/2/2/2
34	DGD	1B	625	-	-	10/51/91/95	0/2/2/2
29	CLA	1s	314	-	-	4/13/89/115	-
29	CLA	1c	504	-	1/1/14/20	11/33/109/115	-
30	CHL	03	305	-	-	8/17/93/117	-
29	CLA	08	309	3	-	3/8/84/115	-
33	LHG	1D	413	-	-	2/44/44/53	-
34	DGD	1B	627	-	-	17/51/91/95	0/2/2/2
29	CLA	1D	404	9	1/1/15/20	15/39/115/115	-
30	CHL	1G	606	-	-	8/17/93/117	-
33	LHG	1b	623	-	-	4/30/30/53	-
35	BCR	1B	617	-	-	4/29/63/63	0/2/2/2
29	CLA	1S	305	21	-	5/10/86/115	-
29	CLA	1s	306	21	-	0/17/93/115	-
33	LHG	1L	101	-	-	10/53/53/53	-
33	LHG	1C	523	-	-	8/43/43/53	-
30	CHL	05	304	-	-	9/15/91/117	-
30	CHL	01	304	-	1/1/14/21	22/38/114/117	-
30	CHL	02	601	-	-	11/17/93/117	-
30	CHL	07	305	-	-	4/6/82/117	-
41	SQD	1B	629	-	-	3/35/55/69	0/1/1/1
30	CHL	1N	310	1	1/1/15/21	24/41/117/117	-
29	CLA	1a	405	6	-	6/24/100/115	-
30	CHL	1g	607	-	-	9/19/95/117	-
29	CLA	1g	603	-	-	4/17/93/115	-
29	CLA	1r	311	-	-	4/15/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	1b	603	7	1/1/13/20	8/29/105/115	-
29	CLA	04	306	3	-	5/13/89/115	-
30	CHL	1S	308	-	-	9/12/88/117	-
29	CLA	1C	511	-	-	7/17/93/115	-
30	CHL	1R	313	20	-	9/15/91/117	-
33	LHG	1b	625	-	-	7/49/49/53	-
30	CHL	05	313	1	-	6/10/86/117	-
29	CLA	06	608	-	-	1/8/84/115	-
30	CHL	02	604	-	-	6/15/91/117	-
31	LUT	1s	318	-	-	4/29/67/67	0/2/2/2
30	CHL	08	303	-	-	8/15/91/117	-
31	LUT	01	314	-	-	1/29/67/67	0/2/2/2
29	CLA	00	310	33	-	4/23/99/115	-
30	CHL	03	311	-	-	6/12/88/117	-
29	CLA	04	309	3	-	4/13/89/115	-
29	CLA	09	302	-	1/1/13/20	7/29/105/115	-
30	CHL	08	302	-	-	2/10/86/117	-
33	LHG	1s	319	-	-	3/28/28/53	-
30	CHL	08	304	3	-	6/10/86/117	-
29	CLA	1c	510	8	1/1/13/20	6/32/108/115	-
30	CHL	01	306	1	1/1/14/21	17/37/113/117	-
29	CLA	1B	604	7	1/1/13/20	6/29/105/115	-
35	BCR	1J	101	-	-	5/29/63/63	0/2/2/2
29	CLA	1G	614	33	-	0/12/88/115	-
29	CLA	1c	513	8	-	3/15/91/115	-
29	CLA	06	611	-	-	0/8/84/115	-
35	BCR	1h	101	-	-	3/29/63/63	0/2/2/2
30	CHL	1G	601	-	1/1/15/21	19/41/117/117	-
31	LUT	1G	615	-	-	1/29/67/67	0/2/2/2
33	LHG	03	314	-	-	10/49/49/53	-
29	CLA	09	312	1	-	4/13/89/115	-
30	CHL	04	302	-	-	4/12/84/117	-
29	CLA	1n	610	1	1/1/13/20	12/31/107/115	-
29	CLA	1n	611	33	1/1/13/20	5/30/106/115	-
29	CLA	1B	613	-	1/1/13/20	4/31/107/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	1G	610	1	-	6/13/89/115	-
33	LHG	1n	617	-	-	8/38/39/53	-
29	CLA	1S	315	21	-	2/13/89/115	-
33	LHG	1b	624	-	-	7/40/40/53	-
46	XAT	1g	619	-	-	8/31/93/93	0/4/4/4
34	DGD	1c	520	-	-	8/46/86/95	0/2/2/2
31	LUT	1n	615	-	-	2/29/67/67	0/2/2/2
34	DGD	00	320	-	-	16/50/90/95	0/2/2/2
29	CLA	04	311	-	-	4/13/89/115	-
29	CLA	1r	310	33	-	3/12/88/115	-
29	CLA	1C	502	8	1/1/14/20	10/35/111/115	-
29	CLA	1b	612	7	1/1/15/20	11/39/115/115	-
33	LHG	1V	201	-	-	9/53/53/53	-
34	DGD	1A	414	-	-	10/44/84/95	0/2/2/2
41	SQD	1c	517	-	-	3/49/69/69	0/1/1/1
30	CHL	05	305	-	1/1/14/21	18/38/114/117	-
30	CHL	02	603	-	-	11/17/93/117	-
30	CHL	01	305	-	-	7/17/93/117	-
41	SQD	1L	102	-	-	10/48/68/69	0/1/1/1
41	SQD	1a	411	-	-	3/41/61/69	0/1/1/1
29	CLA	1g	611	33	-	2/12/88/115	-
33	LHG	1d	402	-	-	3/42/42/53	-
33	LHG	1e	102	-	-	10/46/46/53	-
29	CLA	1B	603	7	1/1/15/20	10/39/115/115	-
29	CLA	1b	611	-	1/1/15/20	13/39/115/115	-
35	BCR	1Z	101	-	-	2/29/63/63	0/2/2/2
29	CLA	1C	505	8	1/1/14/20	16/33/109/115	-
29	CLA	1b	615	7	1/1/15/20	14/39/115/115	-
29	CLA	08	308	3	-	4/10/86/115	-
31	LUT	1G	616	-	-	1/29/67/67	0/2/2/2
33	LHG	1C	525	-	-	8/43/43/53	-
33	LHG	1C	527	-	-	12/41/41/53	-
41	SQD	1m	101	-	-	5/37/57/69	0/1/1/1
41	SQD	1a	410	-	-	9/45/65/69	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	1S	306	-	-	4/8/84/115	-
30	CHL	1S	309	-	-	7/12/88/117	-
29	CLA	01	313	-	-	3/17/93/115	-
30	CHL	06	603	-	-	6/10/82/117	-
35	BCR	1c	516	-	-	1/29/63/63	0/2/2/2
29	CLA	00	311	-	-	6/15/91/115	-
30	CHL	1R	304	-	-	4/12/88/117	-
30	CHL	1G	605	1	-	6/10/86/117	-
29	CLA	04	312	-	-	2/8/84/115	-
35	BCR	1b	620	-	-	2/29/63/63	0/2/2/2
29	CLA	1R	311	-	-	2/13/89/115	-
33	LHG	1j	102	-	-	14/45/45/53	-
30	CHL	1S	307	-	-	8/10/86/117	-
30	CHL	01	303	-	-	6/17/93/117	-
29	CLA	00	318	1	1/1/14/20	17/33/109/115	-
29	CLA	06	607	1	-	0/8/84/115	-
29	CLA	07	310	-	-	2/8/80/115	-
35	BCR	1b	601	-	-	7/29/63/63	0/2/2/2
32	VIV	00	315	-	-	4/7/18/30	0/2/2/2
33	LHG	00	319	-	-	11/53/53/53	-
29	CLA	1g	610	1	1/1/13/20	11/29/105/115	-
30	CHL	1n	601	-	1/1/14/21	6/37/113/117	-
29	CLA	1s	305	21	-	8/15/91/115	-
29	CLA	1S	313	21	1/1/13/20	10/25/101/115	-
33	LHG	1C	520	-	-	4/35/35/53	-
29	CLA	1r	304	-	-	4/17/93/115	-
31	LUT	1S	317	-	-	0/29/67/67	0/2/2/2
29	CLA	1D	401	-	1/1/15/20	7/39/115/115	-
30	CHL	1r	306	-	-	9/17/93/117	-
29	CLA	04	308	-	-	2/8/84/115	-
30	CHL	1g	606	-	-	8/22/98/117	-
29	CLA	00	312	1	-	7/15/91/115	-
33	LHG	1w	104	-	-	10/40/40/53	-
29	CLA	1n	614	1	-	3/10/86/115	-
33	LHG	1G	618	29	-	7/45/45/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	SQD	1b	622	-	-	13/43/63/69	0/1/1/1
29	CLA	1s	315	21	1/1/13/20	11/27/103/115	-
40	PL9	1e	101	-	-	4/13/33/73	0/1/1/1
30	CHL	03	304	-	-	6/14/90/117	-
29	CLA	05	309	-	-	2/8/84/115	-
29	CLA	1b	616	-	1/1/14/20	10/35/111/115	-
29	CLA	02	614	-	-	7/13/89/115	-
30	CHL	1G	609	1	-	8/12/88/117	-
29	CLA	1s	313	-	-	2/10/86/115	-
34	DGD	1c	519	-	-	14/41/81/95	0/2/2/2
29	CLA	1b	606	7	1/1/13/20	9/31/107/115	-
29	CLA	00	303	-	-	4/21/97/115	-
33	LHG	1d	401	-	-	10/43/43/53	-
30	CHL	1R	305	-	-	5/10/86/117	-
33	LHG	1B	621	-	-	6/42/42/53	-
29	CLA	08	312	-	-	9/12/88/115	-
29	CLA	1C	512	8	1/1/13/20	10/27/103/115	-
30	CHL	04	304	-	-	4/14/90/117	-
29	CLA	1r	312	20	-	7/24/100/115	-
30	CHL	1s	309	-	-	10/12/88/117	-
35	BCR	1k	102	-	-	5/29/63/63	0/2/2/2
29	CLA	1S	314	21	-	3/10/86/115	-
31	LUT	03	313	-	-	0/29/67/67	0/2/2/2
42	MGE	1B	623	-	-	8/39/59/63	0/1/1/1
33	LHG	1s	303	-	-	7/30/30/53	-
29	CLA	1c	515	8	1/1/13/20	7/32/108/115	-
30	CHL	02	605	-	-	7/15/91/117	-
29	CLA	1N	303	-	1/1/15/20	11/39/115/115	-
29	CLA	04	314	-	-	2/10/86/115	-
41	SQD	1A	412	-	-	4/37/57/69	0/1/1/1
29	CLA	1N	304	-	-	7/15/91/115	-
33	LHG	1s	302	-	-	4/32/32/53	-
29	CLA	02	608	1	-	2/8/84/115	-
31	LUT	00	314	-	-	0/29/67/67	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CHL	1N	306	1	-	7/12/88/117	-
41	SQD	1B	622	-	-	6/45/65/69	0/1/1/1
29	CLA	1B	610	-	1/1/15/20	17/39/115/115	-
30	CHL	1g	605	1	-	10/17/93/117	-
41	SQD	1A	411	-	-	2/43/63/69	0/1/1/1
29	CLA	1B	609	7	1/1/15/20	11/39/115/115	-
29	CLA	1d	406	9	1/1/14/20	7/33/109/115	-
40	PL9	1D	407	-	-	5/53/73/73	0/1/1/1
29	CLA	1c	503	8	1/1/15/20	8/39/115/115	-
29	CLA	1g	612	-	1/1/14/20	5/33/109/115	-
30	CHL	04	305	-	-	4/12/88/117	-
29	CLA	09	309	1	-	5/10/86/115	-
33	LHG	1w	102	-	-	10/38/38/53	-
29	CLA	1n	613	1	1/1/13/20	14/30/106/115	-
33	LHG	1I	101	-	-	3/33/33/53	-
41	SQD	1b	621	-	-	7/49/69/69	0/1/1/1
35	BCR	1j	101	-	-	5/29/63/63	0/2/2/2
33	LHG	1P	201	-	-	6/48/48/53	-
35	BCR	1I	102	-	-	3/29/63/63	0/2/2/2
29	CLA	05	301	1	-	5/10/86/115	-
29	CLA	1r	308	20	-	9/24/100/115	-
29	CLA	1G	604	-	-	6/10/86/115	-
29	CLA	1R	302	20	1/1/14/20	9/33/109/115	-
29	CLA	00	302	-	1/1/15/20	12/39/115/115	-
33	LHG	1n	616	29	-	6/47/47/53	-
33	LHG	09	318	-	-	12/53/53/53	-
34	DGD	1c	518	-	-	9/36/76/95	0/2/2/2
31	LUT	1R	315	-	-	0/29/67/67	0/2/2/2
29	CLA	1n	603	-	1/1/13/20	11/30/106/115	-
41	SQD	1A	413	-	-	9/40/60/69	0/1/1/1
30	CHL	09	306	-	-	7/14/90/117	-
29	CLA	07	312	-	-	2/13/89/115	-
29	CLA	07	308	-	-	4/10/86/115	-
29	CLA	1G	613	1	-	3/13/89/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	CLA	04	307	-	-	4/13/89/115	-
31	LUT	09	313	-	-	0/29/67/67	0/2/2/2
41	SQD	1s	301	-	-	2/39/59/69	0/1/1/1
35	BCR	1B	619	-	-	4/29/63/63	0/2/2/2
35	BCR	1a	409	-	-	1/29/63/63	0/2/2/2
30	CHL	00	307	-	1/1/15/21	21/41/117/117	-
34	DGD	1C	518	-	-	7/49/89/95	0/2/2/2
38	PHO	1a	407	-	-	2/8/74/103	0/5/6/6
29	CLA	1b	614	7	1/1/14/20	7/33/109/115	-
42	MGE	1k	101	-	-	11/31/51/63	0/1/1/1
29	CLA	1c	511	8	-	7/15/91/115	-
29	CLA	1D	405	9	-	4/12/88/115	-
29	CLA	1G	603	-	-	7/15/91/115	-
29	CLA	1R	312	-	-	8/17/93/115	-
29	CLA	1r	314	20	-	8/17/93/115	-
33	LHG	1C	526	-	-	8/33/33/53	-
33	LHG	1r	317	29	-	4/32/32/53	-
29	CLA	1a	408	6	1/1/14/20	5/33/109/115	-
29	CLA	1C	504	-	1/1/15/20	7/39/115/115	-
29	CLA	05	312	1	-	0/8/84/115	-
29	CLA	02	609	-	-	1/12/88/115	-
40	PL9	1d	410	-	-	3/53/73/73	0/1/1/1
33	LHG	1K	101	-	-	12/46/46/53	-
29	CLA	03	306	-	-	0/8/80/115	-
33	LHG	00	316	29	-	2/36/36/53	-
33	LHG	1C	522	-	-	11/38/38/53	-
46	XAT	1g	617	-	-	10/31/93/93	0/4/4/4
33	LHG	1J	102	-	-	12/48/48/53	-
30	CHL	1g	608	-	-	3/14/90/117	-
35	BCR	1H	101	-	-	5/29/63/63	0/2/2/2
29	CLA	1C	508	8	1/1/15/20	13/39/115/115	-
41	SQD	1w	101	-	-	5/35/55/69	0/1/1/1
29	CLA	1B	606	7	1/1/15/20	8/39/115/115	-
30	CHL	1N	308	-	1/1/15/21	22/41/117/117	-
33	LHG	01	316	-	-	13/40/40/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	SQD	1B	628	-	-	8/49/69/69	0/1/1/1
29	CLA	1C	506	-	-	7/20/96/115	-
29	CLA	09	311	-	-	0/10/86/115	-
30	CHL	1r	313	20	-	8/19/95/117	-
34	DGD	1C	516	-	-	6/44/84/95	0/2/2/2
30	CHL	1R	303	-	-	6/12/88/117	-
29	CLA	08	306	-	-	2/10/86/115	-
33	LHG	1S	319	29	-	8/35/35/53	-
43	LNL	1C	515	-	-	3/14/14/17	-
43	LNL	1C	514	-	-	7/15/15/17	-
29	CLA	1g	602	1	1/1/14/20	15/33/109/115	-
29	CLA	05	308	1	-	2/10/86/115	-
29	CLA	1b	602	-	1/1/15/20	6/39/115/115	-
30	CHL	1s	310	-	-	5/12/88/117	-
33	LHG	1R	318	-	-	4/41/41/53	-
30	CHL	1G	607	-	1/1/14/21	18/39/115/117	-
29	CLA	1R	308	33	-	7/20/96/115	-
29	CLA	07	302	2	-	1/8/84/115	-
29	CLA	1c	507	8	-	10/24/100/115	-
31	LUT	1r	315	-	-	0/29/67/67	0/2/2/2
30	CHL	05	315	-	-	7/12/88/117	-
29	CLA	1C	510	8	1/1/15/20	5/39/115/115	-
45	HEM	1E	103	10	-	6/14/54/54	-
31	LUT	07	313	-	-	0/29/67/67	0/2/2/2
29	CLA	07	309	2	-	7/19/95/115	-
30	CHL	1N	302	1	1/1/14/21	20/40/116/117	-
40	PL9	1E	102	-	-	10/53/73/73	0/1/1/1
29	CLA	1B	602	7	1/1/14/20	14/35/111/115	-
30	CHL	00	306	-	1/1/15/21	23/41/117/117	-
31	LUT	05	314	-	-	2/29/67/67	0/2/2/2
29	CLA	1g	613	-	1/1/13/20	13/27/103/115	-
30	CHL	06	606	-	-	10/17/93/117	-
30	CHL	1n	605	1	-	11/17/93/117	-
29	CLA	09	317	1	-	13/26/102/115	-
29	CLA	05	303	-	-	6/13/89/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	LHG	1a	413	-	-	29/45/45/53	-
33	LHG	1S	301	-	-	9/38/38/53	-
29	CLA	1g	614	1	-	9/15/91/115	-
31	LUT	1g	616	-	-	4/29/67/67	0/2/2/2
29	CLA	09	310	33	-	5/10/86/115	-
29	CLA	05	302	1	-	4/13/89/115	-
29	CLA	1B	601	7	1/1/15/20	15/39/115/115	-
29	CLA	1R	306	20	-	2/13/90/115	-
29	CLA	07	307	-	-	1/8/84/115	-
35	BCR	1d	409	-	-	4/29/63/63	0/2/2/2
29	CLA	1N	312	33	-	0/8/84/115	-
30	CHL	1N	307	-	-	7/17/93/117	-
35	BCR	1b	618	-	-	2/29/63/63	0/2/2/2
30	CHL	01	302	-	-	14/17/93/117	-
29	CLA	1r	309	20	1/1/13/20	5/29/105/115	-
33	LHG	07	314	-	-	13/53/53/53	-
31	LUT	1g	615	-	-	0/29/67/67	0/2/2/2
29	CLA	1D	402	-	-	8/21/97/115	-
33	LHG	1b	628	-	-	3/53/53/53	-
30	CHL	02	606	-	-	8/15/91/117	-
29	CLA	1R	314	20	-	5/17/93/115	-
30	CHL	09	308	1	1/1/14/21	16/35/111/117	-
34	DGD	1S	320	-	-	15/35/75/95	0/2/2/2
29	CLA	09	303	-	-	2/8/84/115	-
29	CLA	1s	307	-	-	4/10/86/115	-
29	CLA	1n	604	-	-	6/10/86/115	-

All (6095) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1b	602	CLA	C1D-ND	8.88	1.48	1.37
29	1S	315	CLA	C1D-ND	8.87	1.48	1.37
29	1B	613	CLA	C1D-ND	8.86	1.48	1.37
29	1c	511	CLA	C1D-ND	8.86	1.48	1.37
29	1B	614	CLA	C1D-ND	8.77	1.48	1.37
29	08	309	CLA	C1D-ND	8.77	1.48	1.37
29	1s	306	CLA	C1D-ND	8.76	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1b	603	CLA	C1D-ND	8.74	1.48	1.37
29	03	306	CLA	C1D-ND	8.73	1.48	1.37
29	1s	314	CLA	C1D-ND	8.73	1.48	1.37
29	08	306	CLA	C1D-ND	8.72	1.48	1.37
29	1C	508	CLA	C1D-ND	8.72	1.48	1.37
29	1B	607	CLA	C1D-ND	8.71	1.48	1.37
29	01	311	CLA	C1D-ND	8.71	1.48	1.37
29	1N	312	CLA	C1D-ND	8.70	1.48	1.37
29	07	309	CLA	C1D-ND	8.70	1.48	1.37
29	04	310	CLA	C1D-ND	8.70	1.48	1.37
29	01	313	CLA	C1D-ND	8.70	1.48	1.37
29	07	312	CLA	C1D-ND	8.70	1.48	1.37
29	1N	313	CLA	C1D-ND	8.69	1.48	1.37
29	02	609	CLA	C1D-ND	8.68	1.48	1.37
29	1n	614	CLA	C1D-ND	8.68	1.48	1.37
29	03	309	CLA	C1D-ND	8.67	1.48	1.37
29	08	310	CLA	C1D-ND	8.66	1.48	1.37
29	04	312	CLA	C1D-ND	8.66	1.48	1.37
29	1G	611	CLA	C1D-ND	8.65	1.48	1.37
29	00	302	CLA	C1D-ND	8.65	1.48	1.37
29	02	610	CLA	C1D-ND	8.65	1.48	1.37
29	04	311	CLA	C1D-ND	8.64	1.48	1.37
29	02	612	CLA	C1D-ND	8.64	1.48	1.37
29	1b	616	CLA	C1D-ND	8.64	1.48	1.37
29	1D	401	CLA	C1D-ND	8.64	1.48	1.37
29	1s	313	CLA	C1D-ND	8.64	1.48	1.37
29	02	611	CLA	C1D-ND	8.63	1.48	1.37
29	1c	509	CLA	C1D-ND	8.63	1.48	1.37
29	1S	312	CLA	C1D-ND	8.62	1.48	1.37
29	03	307	CLA	C1D-ND	8.62	1.48	1.37
29	05	312	CLA	C1D-ND	8.62	1.48	1.37
29	06	610	CLA	C1D-ND	8.62	1.48	1.37
29	05	309	CLA	C1D-ND	8.62	1.48	1.37
29	1C	503	CLA	C1D-ND	8.61	1.48	1.37
29	1R	309	CLA	C1D-ND	8.61	1.48	1.37
29	04	308	CLA	C1D-ND	8.61	1.48	1.37
29	1b	607	CLA	C1D-ND	8.61	1.48	1.37
29	02	613	CLA	C1D-ND	8.61	1.48	1.37
29	1a	406	CLA	C1D-ND	8.60	1.48	1.37
29	1r	311	CLA	C1D-ND	8.60	1.48	1.37
29	1B	615	CLA	C1D-ND	8.60	1.48	1.37
29	06	608	CLA	C1D-ND	8.59	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1b	614	CLA	C1D-ND	8.59	1.48	1.37
29	09	312	CLA	C1D-ND	8.58	1.48	1.37
29	06	609	CLA	C1D-ND	8.58	1.48	1.37
29	03	312	CLA	C1D-ND	8.57	1.48	1.37
29	1B	608	CLA	C1D-ND	8.57	1.48	1.37
29	1D	402	CLA	C1D-ND	8.57	1.48	1.37
29	04	309	CLA	C1D-ND	8.56	1.48	1.37
29	05	302	CLA	C1D-ND	8.56	1.48	1.37
29	09	311	CLA	C1D-ND	8.56	1.48	1.37
29	1D	405	CLA	C1D-ND	8.56	1.48	1.37
29	07	307	CLA	C1D-ND	8.56	1.48	1.37
29	1S	316	CLA	C1D-ND	8.55	1.48	1.37
29	04	307	CLA	C1D-ND	8.55	1.48	1.37
29	1d	403	CLA	C1D-ND	8.55	1.48	1.37
29	1b	611	CLA	C1D-ND	8.55	1.48	1.37
29	1C	501	CLA	C1D-ND	8.55	1.48	1.37
29	1g	612	CLA	C1D-ND	8.55	1.48	1.37
29	1G	613	CLA	C1D-ND	8.55	1.48	1.37
29	07	310	CLA	C1D-ND	8.54	1.48	1.37
29	06	602	CLA	C1D-ND	8.54	1.48	1.37
29	06	607	CLA	C1D-ND	8.54	1.48	1.37
29	1R	307	CLA	C1D-ND	8.54	1.48	1.37
29	06	611	CLA	C1D-ND	8.53	1.48	1.37
29	1d	407	CLA	C1D-ND	8.53	1.48	1.37
29	01	310	CLA	C1D-ND	8.53	1.48	1.37
29	01	312	CLA	C1D-ND	8.53	1.48	1.37
29	1r	309	CLA	C1D-ND	8.53	1.48	1.37
29	05	301	CLA	C1D-ND	8.53	1.48	1.37
29	1b	617	CLA	C1D-ND	8.53	1.48	1.37
29	03	308	CLA	C1D-ND	8.52	1.48	1.37
29	1R	311	CLA	C1D-ND	8.52	1.48	1.37
29	1C	506	CLA	C1D-ND	8.52	1.48	1.37
29	1R	310	CLA	C1D-ND	8.51	1.48	1.37
29	08	312	CLA	C1D-ND	8.51	1.48	1.37
29	1r	310	CLA	C1D-ND	8.50	1.48	1.37
29	1G	614	CLA	C1D-ND	8.50	1.48	1.37
29	1B	604	CLA	C1D-ND	8.50	1.48	1.37
29	1N	315	CLA	C1D-ND	8.50	1.48	1.37
29	02	608	CLA	C1D-ND	8.49	1.48	1.37
29	05	308	CLA	C1D-ND	8.49	1.48	1.37
29	05	310	CLA	C1D-ND	8.49	1.48	1.37
29	1S	310	CLA	C1D-ND	8.49	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1G	604	CLA	C1D-ND	8.49	1.48	1.37
29	1n	611	CLA	C1D-ND	8.49	1.48	1.37
29	1R	306	CLA	C1D-ND	8.49	1.48	1.37
29	08	307	CLA	C1D-ND	8.49	1.48	1.37
29	1s	316	CLA	C1D-ND	8.48	1.48	1.37
29	04	314	CLA	C1D-ND	8.48	1.48	1.37
29	01	308	CLA	C1D-ND	8.48	1.48	1.37
29	00	312	CLA	C1D-ND	8.48	1.48	1.37
29	1R	314	CLA	C1D-ND	8.47	1.48	1.37
29	1g	603	CLA	C1D-ND	8.47	1.48	1.37
29	1R	302	CLA	C1D-ND	8.47	1.48	1.37
29	1c	503	CLA	C1D-ND	8.47	1.48	1.37
29	1g	614	CLA	C1D-ND	8.47	1.48	1.37
29	02	614	CLA	C1D-ND	8.46	1.48	1.37
29	1s	312	CLA	C1D-ND	8.46	1.48	1.37
29	00	310	CLA	C1D-ND	8.46	1.48	1.37
29	1n	613	CLA	C1D-ND	8.46	1.48	1.37
29	1S	306	CLA	C1D-ND	8.44	1.48	1.37
29	09	303	CLA	C1D-ND	8.44	1.48	1.37
29	05	303	CLA	C1D-ND	8.44	1.48	1.37
29	1N	304	CLA	C1D-ND	8.43	1.48	1.37
29	1b	606	CLA	C1D-ND	8.43	1.48	1.37
29	1s	311	CLA	C1D-ND	8.43	1.48	1.37
29	07	308	CLA	C1D-ND	8.43	1.48	1.37
29	1r	302	CLA	C1D-ND	8.43	1.48	1.37
29	1b	605	CLA	C1D-ND	8.43	1.48	1.37
29	08	308	CLA	C1D-ND	8.42	1.48	1.37
29	1B	616	CLA	C1D-ND	8.42	1.48	1.37
29	1c	513	CLA	C1D-ND	8.42	1.48	1.37
29	1C	513	CLA	C1D-ND	8.42	1.48	1.37
29	1n	612	CLA	C1D-ND	8.42	1.48	1.37
29	1S	313	CLA	C1D-ND	8.41	1.48	1.37
29	09	302	CLA	C1D-ND	8.41	1.48	1.37
29	03	301	CLA	C1D-ND	8.40	1.48	1.37
29	1G	610	CLA	C1D-ND	8.40	1.48	1.37
29	03	310	CLA	C1D-ND	8.40	1.48	1.37
29	01	301	CLA	C1D-ND	8.39	1.48	1.37
29	1C	512	CLA	C1D-ND	8.39	1.48	1.37
29	1n	604	CLA	C1D-ND	8.39	1.48	1.37
29	08	311	CLA	C1D-ND	8.38	1.48	1.37
29	1C	502	CLA	C1D-ND	8.38	1.48	1.37
29	1c	505	CLA	C1D-ND	8.38	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	510	CLA	C1D-ND	8.38	1.48	1.37
29	00	301	CLA	C1D-ND	8.37	1.48	1.37
29	1R	312	CLA	C1D-ND	8.37	1.48	1.37
29	1r	303	CLA	C1D-ND	8.37	1.48	1.37
29	1r	304	CLA	C1D-ND	8.37	1.48	1.37
29	00	311	CLA	C1D-ND	8.36	1.48	1.37
29	1G	603	CLA	C1D-ND	8.36	1.48	1.37
29	1a	405	CLA	C1D-ND	8.36	1.48	1.37
29	1s	307	CLA	C1D-ND	8.36	1.48	1.37
29	1B	605	CLA	C1D-ND	8.36	1.48	1.37
29	1g	611	CLA	C1D-ND	8.35	1.48	1.37
29	09	301	CLA	C1D-ND	8.34	1.48	1.37
29	1g	610	CLA	C1D-ND	8.34	1.48	1.37
29	04	306	CLA	C1D-ND	8.34	1.48	1.37
29	1B	611	CLA	C1D-ND	8.33	1.48	1.37
29	1S	314	CLA	C1D-ND	8.33	1.48	1.37
29	1r	312	CLA	C1D-ND	8.33	1.48	1.37
29	02	602	CLA	C1D-ND	8.33	1.48	1.37
29	1s	305	CLA	C1D-ND	8.33	1.48	1.37
29	1S	311	CLA	C1D-ND	8.33	1.48	1.37
29	1n	603	CLA	C1D-ND	8.32	1.48	1.37
29	09	317	CLA	C1D-ND	8.32	1.48	1.37
29	1n	602	CLA	C1D-ND	8.32	1.48	1.37
29	1r	314	CLA	C1D-ND	8.30	1.48	1.37
29	01	309	CLA	C1D-ND	8.30	1.48	1.37
29	07	301	CLA	C1D-ND	8.30	1.48	1.37
29	00	303	CLA	C1D-ND	8.30	1.48	1.37
29	1N	305	CLA	C1D-ND	8.30	1.48	1.37
29	1c	508	CLA	C1D-ND	8.30	1.48	1.37
29	00	318	CLA	C1D-ND	8.29	1.48	1.37
29	1c	504	CLA	C1D-ND	8.29	1.48	1.37
29	1c	515	CLA	C1D-ND	8.29	1.48	1.37
29	1b	615	CLA	C1D-ND	8.29	1.48	1.37
29	05	311	CLA	C1D-ND	8.29	1.48	1.37
29	1G	602	CLA	C1D-ND	8.29	1.48	1.37
29	1N	303	CLA	C1D-ND	8.28	1.48	1.37
29	1C	511	CLA	C1D-ND	8.27	1.48	1.37
29	1g	604	CLA	C1D-ND	8.26	1.47	1.37
29	1b	608	CLA	C1D-ND	8.25	1.47	1.37
29	1s	315	CLA	C1D-ND	8.24	1.47	1.37
29	09	310	CLA	C1D-ND	8.24	1.47	1.37
29	1N	314	CLA	C1D-ND	8.23	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	509	CLA	C1D-ND	8.22	1.47	1.37
29	1n	610	CLA	C1D-ND	8.20	1.47	1.37
29	1N	311	CLA	C1D-ND	8.19	1.47	1.37
29	09	309	CLA	C1D-ND	8.19	1.47	1.37
29	1C	505	CLA	C1D-ND	8.18	1.47	1.37
29	1R	308	CLA	C1D-ND	8.18	1.47	1.37
29	1b	610	CLA	C1D-ND	8.17	1.47	1.37
29	1A	404	CLA	C1D-ND	8.17	1.47	1.37
29	07	302	CLA	C1D-ND	8.17	1.47	1.37
29	01	307	CLA	C1D-ND	8.16	1.47	1.37
29	1a	408	CLA	C1D-ND	8.15	1.47	1.37
29	1B	612	CLA	C1D-ND	8.15	1.47	1.37
29	1g	602	CLA	C1D-ND	8.13	1.47	1.37
29	1d	406	CLA	C1D-ND	8.13	1.47	1.37
29	1c	512	CLA	C1D-ND	8.13	1.47	1.37
29	1G	612	CLA	C1D-ND	8.11	1.47	1.37
29	1B	601	CLA	C1D-ND	8.11	1.47	1.37
29	1C	504	CLA	C1D-ND	8.11	1.47	1.37
29	1r	308	CLA	C1D-ND	8.10	1.47	1.37
29	1B	603	CLA	C1D-ND	8.10	1.47	1.37
29	1b	612	CLA	C1D-ND	8.09	1.47	1.37
29	00	309	CLA	C1D-ND	8.09	1.47	1.37
29	1g	613	CLA	C1D-ND	8.08	1.47	1.37
29	1S	305	CLA	C1D-ND	8.06	1.47	1.37
29	1A	407	CLA	C1D-ND	8.04	1.47	1.37
29	1B	609	CLA	C1D-ND	8.01	1.47	1.37
29	1c	506	CLA	C1D-ND	7.98	1.47	1.37
29	1c	507	CLA	C1D-ND	7.96	1.47	1.37
29	1c	514	CLA	C1D-ND	7.94	1.47	1.37
29	1C	507	CLA	C1D-ND	7.93	1.47	1.37
29	1b	604	CLA	C1D-ND	7.83	1.47	1.37
29	1B	602	CLA	C1D-ND	7.81	1.47	1.37
29	1c	510	CLA	C1D-ND	7.65	1.47	1.37
29	1b	609	CLA	C1D-ND	7.45	1.46	1.37
29	1b	613	CLA	C1D-ND	7.44	1.46	1.37
29	1D	404	CLA	C1D-ND	7.43	1.46	1.37
29	1B	606	CLA	C1D-ND	7.33	1.46	1.37
29	1B	610	CLA	C1D-ND	7.19	1.46	1.37
35	1b	601	BCR	C21-C22	5.91	1.43	1.35
31	1s	318	LUT	C10-C9	5.87	1.43	1.35
31	1g	616	LUT	C34-C33	5.41	1.43	1.35
30	05	315	CHL	O2D-CGD	5.35	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	1D	407	PL9	C3-C4	-5.31	1.40	1.49
30	1r	306	CHL	O2D-CGD	5.27	1.46	1.33
29	1b	606	CLA	O2D-CGD	5.26	1.46	1.33
45	1f	101	HEM	FE-NB	5.26	2.11	1.94
29	1C	512	CLA	O2D-CGD	5.25	1.46	1.33
29	1n	610	CLA	O2D-CGD	5.25	1.46	1.33
45	1E	103	HEM	FE-NB	5.25	2.11	1.94
29	08	312	CLA	O2D-CGD	5.23	1.46	1.33
29	1g	610	CLA	O2D-CGD	5.22	1.45	1.33
29	07	308	CLA	O2D-CGD	5.22	1.45	1.33
29	1B	603	CLA	O2D-CGD	5.22	1.45	1.33
30	01	304	CHL	O2D-CGD	5.22	1.45	1.33
29	1r	309	CLA	O2D-CGD	5.21	1.45	1.33
29	01	301	CLA	O2D-CGD	5.21	1.45	1.33
29	1S	312	CLA	O2D-CGD	5.21	1.45	1.33
29	1G	614	CLA	O2D-CGD	5.21	1.45	1.33
30	1n	607	CHL	O2D-CGD	5.21	1.45	1.33
29	02	609	CLA	O2D-CGD	5.21	1.45	1.33
30	06	601	CHL	O2D-CGD	5.20	1.45	1.33
29	05	308	CLA	O2D-CGD	5.20	1.45	1.33
30	1N	308	CHL	O2D-CGD	5.20	1.45	1.33
30	03	304	CHL	O2D-CGD	5.20	1.45	1.33
30	1G	607	CHL	O2D-CGD	5.20	1.45	1.33
30	1g	607	CHL	O2D-CGD	5.20	1.45	1.33
30	04	302	CHL	O2D-CGD	5.19	1.45	1.33
29	05	301	CLA	O2D-CGD	5.19	1.45	1.33
29	1R	312	CLA	O2D-CGD	5.19	1.45	1.33
35	1k	102	BCR	C21-C22	5.19	1.42	1.35
29	1n	612	CLA	O2D-CGD	5.19	1.45	1.33
30	1N	302	CHL	O2D-CGD	5.19	1.45	1.33
29	03	308	CLA	O2D-CGD	5.19	1.45	1.33
29	09	302	CLA	O2D-CGD	5.18	1.45	1.33
29	04	314	CLA	O2D-CGD	5.18	1.45	1.33
29	1s	315	CLA	O2D-CGD	5.18	1.45	1.33
29	09	317	CLA	O2D-CGD	5.18	1.45	1.33
29	1G	612	CLA	O2D-CGD	5.18	1.45	1.33
30	01	302	CHL	O2D-CGD	5.18	1.45	1.33
29	00	318	CLA	O2D-CGD	5.18	1.45	1.33
29	1r	304	CLA	O2D-CGD	5.18	1.45	1.33
30	01	303	CHL	O2D-CGD	5.18	1.45	1.33
30	05	307	CHL	O2D-CGD	5.18	1.45	1.33
29	1n	602	CLA	O2D-CGD	5.18	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1s	306	CLA	O2D-CGD	5.18	1.45	1.33
29	05	308	CLA	C3A-C2A	-5.18	1.49	1.54
29	06	602	CLA	O2D-CGD	5.17	1.45	1.33
29	1b	602	CLA	O2D-CGD	5.17	1.45	1.33
29	1S	310	CLA	O2D-CGD	5.17	1.45	1.33
29	1b	610	CLA	O2D-CGD	5.17	1.45	1.33
29	1C	508	CLA	O2D-CGD	5.17	1.45	1.33
29	1R	308	CLA	O2D-CGD	5.17	1.45	1.33
29	00	309	CLA	O2D-CGD	5.17	1.45	1.33
29	02	613	CLA	O2D-CGD	5.17	1.45	1.33
29	1g	603	CLA	O2D-CGD	5.17	1.45	1.33
29	1C	513	CLA	O2D-CGD	5.16	1.45	1.33
29	1r	312	CLA	O2D-CGD	5.16	1.45	1.33
29	01	311	CLA	O2D-CGD	5.16	1.45	1.33
29	1r	310	CLA	O2D-CGD	5.16	1.45	1.33
30	1N	310	CHL	O2D-CGD	5.16	1.45	1.33
29	01	313	CLA	O2D-CGD	5.16	1.45	1.33
29	01	307	CLA	O2D-CGD	5.16	1.45	1.33
29	1S	316	CLA	O2D-CGD	5.16	1.45	1.33
29	1N	311	CLA	O2D-CGD	5.16	1.45	1.33
29	1n	603	CLA	O2D-CGD	5.16	1.45	1.33
29	1s	307	CLA	O2D-CGD	5.16	1.45	1.33
30	09	305	CHL	O2D-CGD	5.16	1.45	1.33
29	1N	304	CLA	O2D-CGD	5.16	1.45	1.33
29	08	311	CLA	C3A-C2A	-5.16	1.49	1.54
30	1n	605	CHL	O2D-CGD	5.16	1.45	1.33
29	1s	312	CLA	O2D-CGD	5.15	1.45	1.33
30	1N	306	CHL	O2D-CGD	5.15	1.45	1.33
30	1N	307	CHL	O2D-CGD	5.15	1.45	1.33
29	1r	311	CLA	O2D-CGD	5.15	1.45	1.33
30	02	601	CHL	O2D-CGD	5.15	1.45	1.33
30	06	606	CHL	O2D-CGD	5.15	1.45	1.33
29	1N	303	CLA	O2D-CGD	5.15	1.45	1.33
29	1N	315	CLA	O2D-CGD	5.15	1.45	1.33
30	02	607	CHL	O2D-CGD	5.15	1.45	1.33
29	1s	311	CLA	O2D-CGD	5.15	1.45	1.33
30	1g	605	CHL	O2D-CGD	5.15	1.45	1.33
29	1S	314	CLA	O2D-CGD	5.15	1.45	1.33
30	1G	609	CHL	O2D-CGD	5.15	1.45	1.33
29	1G	604	CLA	O2D-CGD	5.15	1.45	1.33
30	01	306	CHL	O2D-CGD	5.14	1.45	1.33
30	05	305	CHL	O2D-CGD	5.14	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1r	305	CHL	O2D-CGD	5.14	1.45	1.33
30	04	303	CHL	O2D-CGD	5.14	1.45	1.33
30	1s	304	CHL	O2D-CGD	5.14	1.45	1.33
29	1g	604	CLA	O2D-CGD	5.14	1.45	1.33
29	1n	614	CLA	O2D-CGD	5.14	1.45	1.33
30	02	603	CHL	O2D-CGD	5.14	1.45	1.33
30	03	305	CHL	O2D-CGD	5.14	1.45	1.33
30	03	311	CHL	O2D-CGD	5.14	1.45	1.33
29	1B	602	CLA	O2D-CGD	5.14	1.45	1.33
29	1b	617	CLA	O2D-CGD	5.13	1.45	1.33
30	04	301	CHL	O2D-CGD	5.13	1.45	1.33
30	1n	601	CHL	O2D-CGD	5.13	1.45	1.33
29	03	310	CLA	O2D-CGD	5.13	1.45	1.33
29	07	309	CLA	O2D-CGD	5.13	1.45	1.33
30	00	305	CHL	O2D-CGD	5.13	1.45	1.33
30	1n	606	CHL	O2D-CGD	5.13	1.45	1.33
30	1g	601	CHL	O2D-CGD	5.13	1.45	1.33
29	09	311	CLA	O2D-CGD	5.13	1.45	1.33
29	1D	402	CLA	O2D-CGD	5.13	1.45	1.33
29	1r	303	CLA	O2D-CGD	5.13	1.45	1.33
29	00	301	CLA	O2D-CGD	5.12	1.45	1.33
29	1b	608	CLA	O2D-CGD	5.12	1.45	1.33
30	1g	609	CHL	O2D-CGD	5.12	1.45	1.33
30	00	308	CHL	O2D-CGD	5.12	1.45	1.33
30	1G	606	CHL	O2D-CGD	5.12	1.45	1.33
29	1c	506	CLA	O2D-CGD	5.12	1.45	1.33
29	07	302	CLA	CHB-C1B	5.12	1.50	1.39
29	01	309	CLA	O2D-CGD	5.12	1.45	1.33
29	1B	607	CLA	O2D-CGD	5.12	1.45	1.33
29	09	309	CLA	O2D-CGD	5.11	1.45	1.33
29	1N	314	CLA	O2D-CGD	5.11	1.45	1.33
30	1r	313	CHL	O2D-CGD	5.11	1.45	1.33
29	00	311	CLA	O2D-CGD	5.11	1.45	1.33
29	03	301	CLA	O2D-CGD	5.11	1.45	1.33
29	01	312	CLA	O2D-CGD	5.11	1.45	1.33
29	1B	614	CLA	O2D-CGD	5.11	1.45	1.33
29	1B	606	CLA	O2D-CGD	5.11	1.45	1.33
29	1c	513	CLA	O2D-CGD	5.11	1.45	1.33
29	1s	316	CLA	O2D-CGD	5.11	1.45	1.33
30	1G	601	CHL	O2D-CGD	5.11	1.45	1.33
29	1c	515	CLA	O2D-CGD	5.11	1.45	1.33
30	1g	606	CHL	O2D-CGD	5.11	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1G	603	CLA	O2D-CGD	5.11	1.45	1.33
29	1a	406	CLA	O2D-CGD	5.11	1.45	1.33
29	1S	305	CLA	O2D-CGD	5.10	1.45	1.33
29	1c	512	CLA	O2D-CGD	5.10	1.45	1.33
29	1B	605	CLA	O2D-CGD	5.10	1.45	1.33
29	09	301	CLA	CHC-C1C	5.10	1.48	1.38
29	1c	509	CLA	O2D-CGD	5.10	1.45	1.33
29	09	310	CLA	O2D-CGD	5.10	1.45	1.33
30	00	307	CHL	O2D-CGD	5.09	1.45	1.33
29	1C	504	CLA	O2D-CGD	5.09	1.45	1.33
29	08	309	CLA	C3C-C2C	5.09	1.47	1.36
29	1S	311	CLA	O2D-CGD	5.09	1.45	1.33
29	1C	510	CLA	O2D-CGD	5.09	1.45	1.33
29	1g	612	CLA	O2D-CGD	5.09	1.45	1.33
30	1S	309	CHL	O2D-CGD	5.09	1.45	1.33
30	1r	307	CHL	O2D-CGD	5.09	1.45	1.33
29	1C	509	CLA	O2D-CGD	5.09	1.45	1.33
29	1n	613	CLA	O2D-CGD	5.08	1.45	1.33
29	1r	314	CLA	O2D-CGD	5.08	1.45	1.33
30	1s	308	CHL	O2D-CGD	5.08	1.45	1.33
31	1g	616	LUT	C14-C13	5.08	1.42	1.35
29	1b	609	CLA	O2D-CGD	5.08	1.45	1.33
29	1C	501	CLA	O2D-CGD	5.08	1.45	1.33
29	00	312	CLA	O2D-CGD	5.08	1.45	1.33
30	1n	609	CHL	O2D-CGD	5.07	1.45	1.33
30	1s	309	CHL	O2D-CGD	5.07	1.45	1.33
30	09	308	CHL	O2D-CGD	5.07	1.45	1.33
29	1b	604	CLA	O2D-CGD	5.07	1.45	1.33
29	1R	314	CLA	O2D-CGD	5.07	1.45	1.33
30	1S	308	CHL	O2D-CGD	5.07	1.45	1.33
29	1R	309	CLA	CHB-C1B	5.07	1.50	1.39
29	1r	308	CLA	O2D-CGD	5.06	1.45	1.33
29	1B	604	CLA	O2D-CGD	5.06	1.45	1.33
29	1b	607	CLA	O2D-CGD	5.06	1.45	1.33
29	1C	503	CLA	O2D-CGD	5.06	1.45	1.33
29	1r	302	CLA	O2D-CGD	5.06	1.45	1.33
29	1n	611	CLA	O2D-CGD	5.06	1.45	1.33
29	1B	615	CLA	O2D-CGD	5.06	1.45	1.33
30	1g	608	CHL	O2D-CGD	5.06	1.45	1.33
29	1g	613	CLA	O2D-CGD	5.05	1.45	1.33
29	1b	615	CLA	O2D-CGD	5.05	1.45	1.33
29	05	312	CLA	C3A-C2A	-5.05	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1n	608	CHL	O2D-CGD	5.05	1.45	1.33
29	1S	315	CLA	CHC-C1C	5.05	1.48	1.38
29	1c	507	CLA	O2D-CGD	5.04	1.45	1.33
30	1s	309	CHL	C3A-C2A	-5.04	1.49	1.54
29	1c	503	CLA	O2D-CGD	5.04	1.45	1.33
29	09	301	CLA	O2D-CGD	5.04	1.45	1.33
29	1b	614	CLA	O2D-CGD	5.04	1.45	1.33
29	1d	403	CLA	O2D-CGD	5.04	1.45	1.33
29	1B	601	CLA	O2D-CGD	5.04	1.45	1.33
29	01	310	CLA	O2D-CGD	5.04	1.45	1.33
30	1S	304	CHL	O2D-CGD	5.04	1.45	1.33
29	1a	408	CLA	O2D-CGD	5.03	1.45	1.33
29	1C	502	CLA	O2D-CGD	5.03	1.45	1.33
29	1B	610	CLA	O2D-CGD	5.03	1.45	1.33
30	04	304	CHL	O2D-CGD	5.02	1.45	1.33
29	1c	508	CLA	O2D-CGD	5.02	1.45	1.33
29	1B	616	CLA	O2D-CGD	5.02	1.45	1.33
29	1b	605	CLA	O2D-CGD	5.02	1.45	1.33
30	09	307	CHL	O2D-CGD	5.02	1.45	1.33
29	1A	407	CLA	O2D-CGD	5.02	1.45	1.33
29	1n	604	CLA	O2D-CGD	5.02	1.45	1.33
29	01	308	CLA	O2D-CGD	5.01	1.45	1.33
29	1c	511	CLA	O2D-CGD	5.01	1.45	1.33
29	1G	602	CLA	O2D-CGD	5.01	1.45	1.33
29	00	303	CLA	O2D-CGD	5.01	1.45	1.33
29	1D	401	CLA	O2D-CGD	5.01	1.45	1.33
29	00	310	CLA	O2D-CGD	5.01	1.45	1.33
29	1g	614	CLA	O2D-CGD	5.01	1.45	1.33
29	1c	514	CLA	O2D-CGD	5.01	1.45	1.33
29	1C	506	CLA	O2D-CGD	5.00	1.45	1.33
30	1N	309	CHL	O2D-CGD	5.00	1.45	1.33
29	1s	313	CLA	O2D-CGD	5.00	1.45	1.33
29	1C	505	CLA	O2D-CGD	5.00	1.45	1.33
29	1N	305	CLA	O2D-CGD	5.00	1.45	1.33
29	1c	505	CLA	O2D-CGD	4.99	1.45	1.33
29	1g	602	CLA	O2D-CGD	4.99	1.45	1.33
40	1d	410	PL9	C3-C4	-4.99	1.41	1.49
29	05	312	CLA	C3C-C2C	4.99	1.47	1.36
29	1B	613	CLA	O2D-CGD	4.97	1.45	1.33
29	1D	404	CLA	O2D-CGD	4.96	1.45	1.33
29	00	302	CLA	O2D-CGD	4.96	1.45	1.33
29	1b	613	CLA	O2D-CGD	4.96	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1G	608	CHL	O2D-CGD	4.96	1.45	1.33
29	1R	307	CLA	CHC-C1C	4.94	1.48	1.38
30	03	311	CHL	C3A-C2A	-4.94	1.49	1.54
29	1C	511	CLA	O2D-CGD	4.94	1.45	1.33
29	1d	406	CLA	O2D-CGD	4.94	1.45	1.33
29	1B	608	CLA	O2D-CGD	4.93	1.45	1.33
29	1D	405	CLA	O2D-CGD	4.93	1.45	1.33
30	08	304	CHL	C3A-C2A	-4.92	1.49	1.54
29	1R	306	CLA	O2D-CGD	4.91	1.45	1.33
29	00	301	CLA	CHC-C1C	4.90	1.48	1.38
30	01	305	CHL	O2D-CGD	4.89	1.45	1.33
29	1b	611	CLA	O2D-CGD	4.89	1.45	1.33
30	1G	609	CHL	C3A-C2A	-4.89	1.50	1.54
29	1g	611	CLA	O2D-CGD	4.88	1.45	1.33
29	1C	507	CLA	O2D-CGD	4.88	1.45	1.33
29	1B	611	CLA	O2D-CGD	4.88	1.45	1.33
29	1D	404	CLA	C3D-C4D	-4.88	1.33	1.44
29	1B	606	CLA	C3D-C4D	-4.88	1.33	1.44
29	1S	305	CLA	CHC-C1C	4.88	1.48	1.38
29	1R	302	CLA	O2D-CGD	4.88	1.45	1.33
29	1B	612	CLA	O2D-CGD	4.87	1.45	1.33
29	1b	614	CLA	CHB-C1B	4.87	1.50	1.39
29	1B	609	CLA	O2D-CGD	4.87	1.45	1.33
29	09	309	CLA	C3A-C2A	-4.87	1.50	1.54
29	1s	305	CLA	O2D-CGD	4.87	1.45	1.33
30	00	306	CHL	O2D-CGD	4.86	1.45	1.33
29	1S	310	CLA	C3A-C2A	-4.86	1.50	1.54
29	1d	407	CLA	O2D-CGD	4.85	1.45	1.33
29	1c	507	CLA	C3D-C4D	-4.85	1.33	1.44
29	1b	616	CLA	O2D-CGD	4.85	1.45	1.33
29	06	602	CLA	CHC-C1C	4.84	1.48	1.38
29	1B	602	CLA	C3D-C4D	-4.84	1.33	1.44
29	1b	604	CLA	C3D-C4D	-4.84	1.33	1.44
30	1N	306	CHL	C3A-C2A	-4.84	1.50	1.54
30	09	306	CHL	O2D-CGD	4.83	1.45	1.33
29	1b	603	CLA	O2D-CGD	4.83	1.45	1.33
29	1R	307	CLA	C3A-C2A	-4.83	1.50	1.54
29	1S	314	CLA	C3A-C2A	-4.83	1.50	1.54
30	1n	601	CHL	C3D-C4D	-4.81	1.33	1.44
29	1B	610	CLA	C3D-C4D	-4.81	1.33	1.44
29	01	312	CLA	C3C-C2C	4.81	1.46	1.36
29	1c	512	CLA	CHC-C1C	4.79	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1b	609	CLA	C3D-C4D	-4.79	1.33	1.44
29	02	608	CLA	C3A-C2A	-4.78	1.50	1.54
31	1g	615	LUT	C14-C13	4.78	1.42	1.35
29	1a	405	CLA	O2D-CGD	4.78	1.44	1.33
29	05	312	CLA	C3D-C4D	-4.77	1.33	1.44
30	05	315	CHL	C3A-C2A	-4.76	1.50	1.54
30	08	301	CHL	C2C-C3C	4.76	1.46	1.36
29	1a	405	CLA	C3D-C4D	-4.75	1.33	1.44
30	00	305	CHL	C3D-C4D	-4.75	1.33	1.44
29	1r	312	CLA	C3C-C2C	4.75	1.46	1.36
29	1A	404	CLA	C3D-C4D	-4.74	1.33	1.44
29	1G	602	CLA	CHC-C1C	4.73	1.48	1.38
29	01	301	CLA	C3C-C2C	4.73	1.46	1.36
29	1b	612	CLA	O2D-CGD	4.73	1.44	1.33
29	08	308	CLA	CHC-C1C	4.72	1.48	1.38
29	01	309	CLA	CHC-C1C	4.72	1.48	1.38
29	1A	404	CLA	O2D-CGD	4.72	1.44	1.33
30	09	305	CHL	C3D-C4D	-4.72	1.33	1.44
30	1r	306	CHL	C3D-C4D	-4.71	1.33	1.44
29	1S	310	CLA	CHC-C1C	4.71	1.48	1.38
29	04	309	CLA	C3D-C4D	-4.71	1.33	1.44
29	1C	505	CLA	C3D-C4D	-4.71	1.33	1.44
29	1r	302	CLA	C3A-C2A	-4.71	1.50	1.54
29	1r	309	CLA	CHC-C1C	4.71	1.48	1.38
29	07	302	CLA	MG-NA	-4.71	1.95	2.06
29	1N	305	CLA	C3A-C2A	-4.71	1.50	1.54
29	1c	510	CLA	O2D-CGD	4.71	1.44	1.33
30	03	303	CHL	O2D-CGD	4.70	1.46	1.30
29	05	311	CLA	O2D-CGD	4.70	1.46	1.30
29	1b	613	CLA	C3D-C4D	-4.70	1.33	1.44
29	1g	602	CLA	CHC-C1C	4.70	1.48	1.38
29	07	310	CLA	O2D-CGD	4.70	1.46	1.30
29	1R	309	CLA	O2D-CGD	4.70	1.46	1.30
30	1S	308	CHL	C3A-C2A	-4.70	1.50	1.54
29	02	614	CLA	O2D-CGD	4.69	1.46	1.30
29	1B	603	CLA	C3D-C4D	-4.69	1.33	1.44
29	1b	605	CLA	C3D-C4D	-4.69	1.33	1.44
29	04	312	CLA	O2D-CGD	4.69	1.45	1.30
29	01	301	CLA	CHC-C1C	4.69	1.48	1.38
30	1S	307	CHL	C2C-C3C	4.69	1.46	1.36
29	1s	314	CLA	O2D-CGD	4.69	1.45	1.30
30	08	302	CHL	C3A-C2A	-4.69	1.50	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	612	CLA	C3D-C4D	-4.68	1.33	1.44
30	07	303	CHL	O2D-CGD	4.68	1.45	1.30
30	1n	605	CHL	C2C-C3C	4.68	1.46	1.36
30	06	603	CHL	O2D-CGD	4.68	1.45	1.30
30	06	605	CHL	O2D-CGD	4.68	1.45	1.30
29	06	609	CLA	O2D-CGD	4.68	1.45	1.30
30	1S	307	CHL	O2D-CGD	4.68	1.45	1.30
29	08	308	CLA	O2D-CGD	4.68	1.45	1.30
29	07	302	CLA	O2D-CGD	4.68	1.45	1.30
30	02	605	CHL	O2D-CGD	4.67	1.45	1.30
29	1b	603	CLA	C3D-C4D	-4.67	1.33	1.44
30	08	304	CHL	C3D-C4D	-4.67	1.33	1.44
30	08	301	CHL	C3A-C2A	-4.67	1.50	1.54
29	04	309	CLA	O2D-CGD	4.67	1.45	1.30
29	1S	315	CLA	O2D-CGD	4.67	1.45	1.30
30	1n	609	CHL	C3D-C4D	-4.67	1.33	1.44
29	1R	310	CLA	O2D-CGD	4.67	1.45	1.30
30	1R	305	CHL	C3D-C4D	-4.67	1.33	1.44
29	1c	504	CLA	O2D-CGD	4.67	1.44	1.33
30	05	313	CHL	O2D-CGD	4.67	1.45	1.30
30	1R	303	CHL	C3D-C4D	-4.67	1.33	1.44
29	1s	306	CLA	CHC-C1C	4.67	1.48	1.38
31	09	313	LUT	C34-C33	4.67	1.42	1.35
29	02	610	CLA	O2D-CGD	4.66	1.45	1.30
30	08	302	CHL	O2D-CGD	4.66	1.45	1.30
29	1N	314	CLA	C3D-C4D	-4.66	1.33	1.44
30	1n	606	CHL	C3D-C4D	-4.66	1.33	1.44
30	1N	307	CHL	C3D-C4D	-4.66	1.33	1.44
29	06	610	CLA	O2D-CGD	4.66	1.45	1.30
29	02	608	CLA	O2D-CGD	4.66	1.45	1.30
30	1R	303	CHL	O2D-CGD	4.66	1.45	1.30
29	1b	606	CLA	C3D-C4D	-4.66	1.33	1.44
29	1N	312	CLA	O2D-CGD	4.66	1.45	1.30
29	1B	614	CLA	CHB-C1B	4.66	1.49	1.39
30	07	306	CHL	O2D-CGD	4.66	1.45	1.30
30	04	305	CHL	O2D-CGD	4.66	1.45	1.30
29	1B	601	CLA	C3D-C4D	-4.66	1.33	1.44
29	1N	313	CLA	O2D-CGD	4.66	1.45	1.30
30	05	306	CHL	C3A-C2A	-4.66	1.50	1.54
29	02	612	CLA	O2D-CGD	4.65	1.45	1.30
30	02	604	CHL	O2D-CGD	4.65	1.45	1.30
29	1b	611	CLA	C3C-C2C	4.65	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	00	308	CHL	C2C-C3C	4.65	1.46	1.36
30	1s	310	CHL	C2C-C3C	4.65	1.46	1.36
30	04	303	CHL	C3D-C4D	-4.65	1.33	1.44
29	08	309	CLA	O2D-CGD	4.65	1.45	1.30
30	1R	304	CHL	O2D-CGD	4.65	1.45	1.30
29	06	607	CLA	O2D-CGD	4.65	1.45	1.30
29	08	306	CLA	O2D-CGD	4.65	1.45	1.30
30	06	604	CHL	O2D-CGD	4.65	1.45	1.30
30	1r	305	CHL	C3D-C4D	-4.65	1.33	1.44
29	06	611	CLA	O2D-CGD	4.65	1.45	1.30
30	1S	304	CHL	CHC-C1C	4.65	1.48	1.38
29	05	310	CLA	O2D-CGD	4.65	1.45	1.30
29	05	302	CLA	O2D-CGD	4.65	1.45	1.30
29	02	611	CLA	O2D-CGD	4.65	1.45	1.30
29	1G	610	CLA	O2D-CGD	4.65	1.45	1.30
29	02	614	CLA	C3C-C2C	4.65	1.46	1.36
30	1s	310	CHL	O2D-CGD	4.65	1.45	1.30
30	1r	313	CHL	C2C-C3C	4.64	1.46	1.36
30	02	606	CHL	O2D-CGD	4.64	1.45	1.30
29	1S	306	CLA	O2D-CGD	4.64	1.45	1.30
30	08	303	CHL	O2D-CGD	4.64	1.45	1.30
29	1G	610	CLA	CHC-C1C	4.64	1.48	1.38
29	1s	305	CLA	CHC-C1C	4.64	1.48	1.38
30	1S	309	CHL	C3D-C4D	-4.64	1.33	1.44
29	1S	313	CLA	O2D-CGD	4.64	1.45	1.30
30	1S	307	CHL	C3D-C4D	-4.64	1.33	1.44
29	04	307	CLA	O2D-CGD	4.64	1.45	1.30
30	07	304	CHL	O2D-CGD	4.64	1.45	1.30
29	03	307	CLA	O2D-CGD	4.64	1.45	1.30
29	1S	314	CLA	CHC-C1C	4.64	1.47	1.38
29	03	309	CLA	O2D-CGD	4.64	1.45	1.30
30	02	605	CHL	C3D-C4D	-4.64	1.33	1.44
30	1S	308	CHL	C3D-C4D	-4.64	1.33	1.44
29	1R	307	CLA	C3D-C4D	-4.64	1.33	1.44
30	00	304	CHL	O2D-CGD	4.64	1.45	1.30
29	03	312	CLA	O2D-CGD	4.63	1.45	1.30
29	04	308	CLA	O2D-CGD	4.63	1.45	1.30
30	1G	605	CHL	O2D-CGD	4.63	1.45	1.30
29	02	602	CLA	O2D-CGD	4.63	1.45	1.30
30	05	304	CHL	C3D-C4D	-4.63	1.33	1.44
29	1C	513	CLA	C3C-C2C	4.63	1.46	1.36
30	07	311	CHL	C3D-C4D	-4.63	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1G	611	CLA	O2D-CGD	4.63	1.45	1.30
29	08	307	CLA	O2D-CGD	4.63	1.45	1.30
29	03	306	CLA	O2D-CGD	4.63	1.45	1.30
29	1d	406	CLA	C3D-C4D	-4.63	1.33	1.44
30	1g	608	CHL	C3D-C4D	-4.63	1.33	1.44
30	05	306	CHL	O2D-CGD	4.63	1.45	1.30
30	1g	601	CHL	CHC-C1C	4.63	1.47	1.38
30	08	301	CHL	O2D-CGD	4.62	1.45	1.30
29	1R	311	CLA	O2D-CGD	4.62	1.45	1.30
30	09	304	CHL	O2D-CGD	4.62	1.45	1.30
29	06	608	CLA	O2D-CGD	4.62	1.45	1.30
29	05	302	CLA	CHC-C1C	4.62	1.47	1.38
29	09	312	CLA	O2D-CGD	4.62	1.45	1.30
29	1R	307	CLA	O2D-CGD	4.62	1.45	1.30
30	1R	305	CHL	O2D-CGD	4.62	1.45	1.30
30	1R	313	CHL	O2D-CGD	4.62	1.45	1.30
29	01	309	CLA	C3D-C4D	-4.62	1.33	1.44
29	1b	615	CLA	C3D-C4D	-4.62	1.33	1.44
30	08	304	CHL	O2D-CGD	4.62	1.45	1.30
30	1S	309	CHL	C3A-C2A	-4.62	1.50	1.54
30	1N	310	CHL	C3D-C4D	-4.62	1.33	1.44
29	04	310	CLA	O2D-CGD	4.61	1.45	1.30
29	09	303	CLA	O2D-CGD	4.61	1.45	1.30
30	09	307	CHL	C3D-C4D	-4.61	1.33	1.44
29	04	311	CLA	O2D-CGD	4.61	1.45	1.30
29	1N	303	CLA	CHC-C1C	4.61	1.47	1.38
29	08	311	CLA	C3D-C4D	-4.61	1.33	1.44
30	00	308	CHL	C3D-C4D	-4.61	1.33	1.44
29	08	310	CLA	C3C-C2C	4.61	1.46	1.36
30	05	307	CHL	C3A-C2A	-4.61	1.50	1.54
29	05	303	CLA	O2D-CGD	4.61	1.45	1.30
29	07	307	CLA	O2D-CGD	4.61	1.45	1.30
29	05	312	CLA	O2D-CGD	4.61	1.45	1.30
30	03	311	CHL	C3D-C4D	-4.61	1.33	1.44
30	00	307	CHL	C2C-C3C	4.61	1.46	1.36
29	07	301	CLA	C3A-C2A	-4.61	1.50	1.54
29	1G	613	CLA	O2D-CGD	4.61	1.45	1.30
30	1s	309	CHL	C3D-C4D	-4.60	1.33	1.44
30	03	311	CHL	C2C-C3C	4.60	1.46	1.36
30	01	306	CHL	C2C-C3C	4.60	1.46	1.36
30	1S	304	CHL	C3D-C4D	-4.60	1.33	1.44
30	1N	309	CHL	CHC-C1C	4.60	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	03	310	CLA	C3C-C2C	4.60	1.46	1.36
29	06	607	CLA	C3C-C2C	4.60	1.46	1.36
29	1C	506	CLA	CHC-C1C	4.60	1.47	1.38
29	1A	407	CLA	C3D-C4D	-4.60	1.33	1.44
29	1R	302	CLA	CHC-C1C	4.60	1.47	1.38
29	1C	503	CLA	C3D-C4D	-4.60	1.33	1.44
30	1N	309	CHL	C3D-C4D	-4.60	1.33	1.44
29	02	614	CLA	CHC-C1C	4.60	1.47	1.38
29	04	310	CLA	C3C-C2C	4.60	1.46	1.36
29	1n	613	CLA	C3D-C4D	-4.60	1.33	1.44
30	1G	606	CHL	C3D-C4D	-4.60	1.33	1.44
30	1G	607	CHL	C3D-C4D	-4.60	1.33	1.44
29	07	301	CLA	O2D-CGD	4.60	1.45	1.30
29	1r	302	CLA	CHC-C1C	4.59	1.47	1.38
30	1g	601	CHL	C2C-C3C	4.59	1.46	1.36
30	04	305	CHL	C2C-C3C	4.59	1.46	1.36
30	1S	307	CHL	C3A-C2A	-4.59	1.50	1.54
29	1b	608	CLA	C3D-C4D	-4.59	1.33	1.44
30	07	305	CHL	C3D-C4D	-4.59	1.33	1.44
30	05	307	CHL	C2C-C3C	4.59	1.46	1.36
29	1r	309	CLA	C3D-C4D	-4.59	1.33	1.44
30	05	306	CHL	C3D-C4D	-4.59	1.33	1.44
30	06	601	CHL	C2C-C3C	4.59	1.46	1.36
29	1S	315	CLA	C3C-C2C	4.59	1.46	1.36
30	1R	304	CHL	C3D-C4D	-4.59	1.33	1.44
29	00	309	CLA	CHC-C1C	4.59	1.47	1.38
30	07	311	CHL	O2D-CGD	4.59	1.45	1.30
29	07	312	CLA	O2D-CGD	4.59	1.45	1.30
40	1R	301	PL9	C3-C4	-4.59	1.42	1.49
30	1s	304	CHL	CHC-C1C	4.59	1.47	1.38
30	02	607	CHL	C2C-C3C	4.59	1.46	1.36
30	06	605	CHL	C2C-C3C	4.59	1.46	1.36
30	08	305	CHL	C2C-C3C	4.59	1.46	1.36
29	1s	311	CLA	C3D-C4D	-4.59	1.33	1.44
29	1r	302	CLA	C3D-C4D	-4.59	1.33	1.44
30	1G	609	CHL	C3D-C4D	-4.59	1.33	1.44
30	02	607	CHL	C3D-C4D	-4.59	1.33	1.44
30	06	606	CHL	C3D-C4D	-4.59	1.33	1.44
29	04	306	CLA	C3D-C4D	-4.59	1.33	1.44
29	04	306	CLA	C3C-C2C	4.58	1.46	1.36
30	01	306	CHL	C3D-C4D	-4.58	1.33	1.44
30	1R	305	CHL	C3A-C2A	-4.58	1.50	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	1A	410	PL9	C3-C4	-4.58	1.42	1.49
30	1s	304	CHL	C3D-C4D	-4.58	1.33	1.44
29	08	311	CLA	O2D-CGD	4.58	1.45	1.30
30	1R	313	CHL	C2C-C3C	4.58	1.46	1.36
30	07	304	CHL	C3D-C4D	-4.58	1.33	1.44
30	02	604	CHL	C3D-C4D	-4.58	1.33	1.44
29	1S	311	CLA	C3D-C4D	-4.58	1.33	1.44
30	07	306	CHL	C3A-C2A	-4.58	1.50	1.54
29	1N	314	CLA	CHC-C1C	4.58	1.47	1.38
30	03	303	CHL	C2C-C3C	4.58	1.46	1.36
29	1R	310	CLA	C3C-C2C	4.57	1.46	1.36
29	1b	613	CLA	CHC-C1C	4.57	1.47	1.38
30	01	305	CHL	C2C-C3C	4.57	1.46	1.36
29	1n	611	CLA	C3D-C4D	-4.57	1.33	1.44
30	04	302	CHL	C3D-C4D	-4.57	1.33	1.44
29	1C	512	CLA	C3D-C4D	-4.57	1.33	1.44
30	1G	607	CHL	C2C-C3C	4.57	1.46	1.36
30	1N	308	CHL	C3D-C4D	-4.57	1.33	1.44
30	03	302	CHL	C2C-C3C	4.57	1.46	1.36
29	1B	616	CLA	C3D-C4D	-4.57	1.33	1.44
30	1N	302	CHL	C3D-C4D	-4.57	1.33	1.44
30	1N	302	CHL	C2C-C3C	4.57	1.46	1.36
30	1N	310	CHL	C2C-C3C	4.57	1.46	1.36
29	05	301	CLA	CHC-C1C	4.57	1.47	1.38
29	1g	602	CLA	C3D-C4D	-4.57	1.33	1.44
30	06	603	CHL	C3D-C4D	-4.57	1.33	1.44
30	01	303	CHL	C3D-C4D	-4.57	1.33	1.44
30	09	308	CHL	C3D-C4D	-4.57	1.33	1.44
30	1G	605	CHL	C3D-C4D	-4.57	1.33	1.44
29	1G	602	CLA	C3D-C4D	-4.57	1.33	1.44
30	08	301	CHL	C3D-C4D	-4.57	1.33	1.44
29	08	311	CLA	C3C-C2C	4.56	1.46	1.36
30	1G	601	CHL	C3D-C4D	-4.56	1.33	1.44
30	1g	601	CHL	C3D-C4D	-4.56	1.33	1.44
30	1G	608	CHL	C2C-C3C	4.56	1.46	1.36
29	05	309	CLA	O2D-CGD	4.56	1.45	1.30
29	08	312	CLA	C3C-C2C	4.56	1.46	1.36
30	1N	306	CHL	C3D-C4D	-4.56	1.33	1.44
29	1B	614	CLA	CHC-C1C	4.56	1.47	1.38
29	04	306	CLA	O2D-CGD	4.56	1.45	1.30
30	01	302	CHL	C2C-C3C	4.56	1.46	1.36
29	06	607	CLA	C3A-C2A	-4.56	1.50	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	04	301	CHL	C3D-C4D	-4.56	1.33	1.44
30	06	601	CHL	C3D-C4D	-4.56	1.33	1.44
30	00	307	CHL	C3D-C4D	-4.56	1.33	1.44
30	02	603	CHL	C2C-C3C	4.56	1.46	1.36
30	09	306	CHL	C3D-C4D	-4.56	1.33	1.44
30	1g	609	CHL	C2C-C3C	4.56	1.46	1.36
30	04	304	CHL	C3D-C4D	-4.55	1.33	1.44
30	07	311	CHL	C2C-C3C	4.55	1.46	1.36
29	02	608	CLA	C3C-C2C	4.55	1.46	1.36
30	1s	308	CHL	C3D-C4D	-4.55	1.33	1.44
30	05	315	CHL	C2C-C3C	4.55	1.46	1.36
30	1N	302	CHL	CHC-C1C	4.55	1.47	1.38
29	03	306	CLA	C3D-C4D	-4.55	1.33	1.44
30	07	306	CHL	C3D-C4D	-4.55	1.33	1.44
30	1R	313	CHL	C3D-C4D	-4.55	1.33	1.44
29	1s	316	CLA	C3D-C4D	-4.54	1.33	1.44
30	03	303	CHL	C3D-C4D	-4.54	1.33	1.44
29	01	307	CLA	C3D-C4D	-4.54	1.33	1.44
29	1B	608	CLA	C3C-C2C	4.54	1.46	1.36
30	02	601	CHL	C2C-C3C	4.54	1.46	1.36
30	05	304	CHL	CHD-C1D	4.54	1.47	1.38
30	08	303	CHL	C3D-C4D	-4.54	1.33	1.44
29	04	314	CLA	C3D-C4D	-4.54	1.33	1.44
30	1g	609	CHL	C3D-C4D	-4.54	1.33	1.44
29	1C	509	CLA	C3D-C4D	-4.54	1.33	1.44
29	1C	501	CLA	C3C-C2C	4.54	1.46	1.36
29	1c	508	CLA	C3C-C2C	4.54	1.46	1.36
30	00	304	CHL	C3D-C4D	-4.54	1.33	1.44
30	00	304	CHL	O2A-CGA	4.54	1.46	1.30
29	1n	602	CLA	C3D-C4D	-4.54	1.33	1.44
30	1g	608	CHL	C2C-C3C	4.54	1.46	1.36
29	01	313	CLA	C3C-C2C	4.53	1.46	1.36
29	1C	512	CLA	C3C-C2C	4.53	1.46	1.36
30	1S	309	CHL	C2C-C3C	4.53	1.46	1.36
29	05	303	CLA	C3C-C2C	4.53	1.46	1.36
30	1s	310	CHL	C3D-C4D	-4.53	1.33	1.44
30	04	301	CHL	C2C-C3C	4.53	1.46	1.36
29	1c	509	CLA	CHC-C1C	4.53	1.47	1.38
29	05	303	CLA	C3D-C4D	-4.53	1.33	1.44
29	1n	604	CLA	C3D-C4D	-4.53	1.33	1.44
29	1N	315	CLA	C3C-C2C	4.53	1.46	1.36
30	1n	609	CHL	O2A-CGA	4.53	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1N	306	CHL	C2C-C3C	4.53	1.46	1.36
29	01	307	CLA	C3C-C2C	4.53	1.46	1.36
29	1r	311	CLA	C3C-C2C	4.53	1.46	1.36
30	04	304	CHL	C2C-C3C	4.53	1.46	1.36
29	1R	308	CLA	C3D-C4D	-4.53	1.33	1.44
29	1a	408	CLA	C3D-C4D	-4.53	1.33	1.44
30	08	302	CHL	C2C-C3C	4.53	1.46	1.36
29	1B	611	CLA	C3D-C4D	-4.53	1.33	1.44
30	1R	304	CHL	C2C-C3C	4.53	1.46	1.36
29	04	309	CLA	O2A-CGA	4.53	1.46	1.30
29	1R	302	CLA	C3D-C4D	-4.53	1.33	1.44
30	07	305	CHL	C3A-C2A	-4.53	1.50	1.54
30	02	603	CHL	C3D-C4D	-4.53	1.33	1.44
29	03	306	CLA	CHC-C1C	4.53	1.47	1.38
30	06	605	CHL	C3D-C4D	-4.53	1.34	1.44
29	1c	511	CLA	CHB-C1B	4.53	1.49	1.39
29	1b	602	CLA	C3C-C2C	4.53	1.46	1.36
29	1r	314	CLA	C3C-C2C	4.53	1.46	1.36
30	05	313	CHL	C3D-C4D	-4.53	1.34	1.44
29	04	314	CLA	C3A-C2A	-4.53	1.50	1.54
29	1C	512	CLA	O2A-CGA	4.53	1.46	1.33
29	1b	607	CLA	C3D-C4D	-4.53	1.34	1.44
29	1c	512	CLA	C3D-C4D	-4.53	1.34	1.44
30	02	606	CHL	C2C-C3C	4.52	1.46	1.36
29	1B	613	CLA	C3D-C4D	-4.52	1.34	1.44
30	1G	605	CHL	C3A-C2A	-4.52	1.50	1.54
29	01	307	CLA	CHC-C1C	4.52	1.47	1.38
29	1c	515	CLA	C3D-C4D	-4.52	1.34	1.44
30	06	605	CHL	O2A-CGA	4.52	1.45	1.30
29	01	310	CLA	C3C-C2C	4.52	1.46	1.36
30	07	304	CHL	C3A-C2A	-4.52	1.50	1.54
31	05	314	LUT	C34-C33	4.52	1.41	1.35
29	07	301	CLA	C3D-C4D	-4.52	1.34	1.44
30	06	604	CHL	C3D-C4D	-4.52	1.34	1.44
30	1g	605	CHL	C3D-C4D	-4.52	1.34	1.44
29	1C	505	CLA	C3C-C2C	4.52	1.46	1.36
29	00	301	CLA	C3D-C4D	-4.52	1.34	1.44
29	03	310	CLA	O2A-CGA	4.52	1.45	1.30
30	1G	606	CHL	O2A-CGA	4.52	1.45	1.30
30	08	302	CHL	C3D-C4D	-4.52	1.34	1.44
29	02	611	CLA	O2A-CGA	4.52	1.45	1.30
29	1B	614	CLA	O2A-CGA	4.52	1.45	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1g	606	CHL	C3D-C4D	-4.52	1.34	1.44
30	1n	605	CHL	O2A-CGA	4.52	1.45	1.30
29	1C	504	CLA	C3D-C4D	-4.52	1.34	1.44
29	1b	617	CLA	C3D-C4D	-4.52	1.34	1.44
29	04	311	CLA	C3C-C2C	4.52	1.46	1.36
29	05	308	CLA	CHC-C1C	4.52	1.47	1.38
29	00	310	CLA	C3D-C4D	-4.52	1.34	1.44
30	06	603	CHL	C2C-C3C	4.52	1.46	1.36
30	1r	313	CHL	C3D-C4D	-4.52	1.34	1.44
29	06	611	CLA	C3C-C2C	4.51	1.46	1.36
30	02	606	CHL	C3D-C4D	-4.51	1.34	1.44
29	1s	305	CLA	C3D-C4D	-4.51	1.34	1.44
29	03	301	CLA	C3D-C4D	-4.51	1.34	1.44
29	1s	306	CLA	C3D-C4D	-4.51	1.34	1.44
30	1n	607	CHL	C2C-C3C	4.51	1.46	1.36
30	04	302	CHL	C2C-C3C	4.51	1.46	1.36
30	1R	304	CHL	CHC-C1C	4.51	1.47	1.38
29	1G	610	CLA	C3D-C4D	-4.51	1.34	1.44
30	1S	304	CHL	O2A-CGA	4.51	1.45	1.30
30	05	304	CHL	O2D-CGD	4.51	1.45	1.30
29	1N	311	CLA	C3A-C2A	-4.51	1.50	1.54
29	1c	515	CLA	C3C-C2C	4.51	1.46	1.36
30	08	304	CHL	C2C-C3C	4.51	1.46	1.36
30	04	305	CHL	C3D-C4D	-4.51	1.34	1.44
30	1n	608	CHL	C2C-C3C	4.51	1.46	1.36
30	06	604	CHL	C3A-C2A	-4.51	1.50	1.54
29	02	602	CLA	C3C-C2C	4.51	1.46	1.36
29	09	312	CLA	O2A-CGA	4.51	1.45	1.30
29	1b	614	CLA	CHC-C1C	4.51	1.47	1.38
29	06	608	CLA	C3C-C2C	4.51	1.46	1.36
29	1R	311	CLA	O2A-CGA	4.51	1.45	1.30
30	08	305	CHL	C3D-C4D	-4.51	1.34	1.44
30	1s	304	CHL	O2A-CGA	4.50	1.45	1.30
29	1a	406	CLA	CHC-C1C	4.50	1.47	1.38
30	02	604	CHL	C2C-C3C	4.50	1.46	1.36
30	1g	605	CHL	C2C-C3C	4.50	1.46	1.36
30	1R	313	CHL	O2A-CGA	4.50	1.45	1.30
29	02	609	CLA	C3C-C2C	4.50	1.46	1.36
30	1r	305	CHL	O2A-CGA	4.50	1.45	1.30
29	1S	305	CLA	C3A-C2A	-4.50	1.50	1.54
29	1S	315	CLA	O2A-CGA	4.50	1.45	1.30
29	1c	507	CLA	C3C-C2C	4.50	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1S	314	CLA	C3D-C4D	-4.50	1.34	1.44
30	06	604	CHL	C2C-C3C	4.50	1.46	1.36
30	09	304	CHL	C3D-C4D	-4.50	1.34	1.44
29	02	612	CLA	C3C-C2C	4.50	1.46	1.36
29	09	303	CLA	C3D-C4D	-4.50	1.34	1.44
30	05	307	CHL	C3D-C4D	-4.50	1.34	1.44
29	02	610	CLA	O2A-CGA	4.50	1.45	1.30
30	02	601	CHL	O2A-CGA	4.50	1.45	1.30
29	03	309	CLA	O2A-CGA	4.50	1.45	1.30
29	1G	603	CLA	O2A-CGA	4.50	1.45	1.30
30	1g	607	CHL	C2C-C3C	4.50	1.46	1.36
30	1R	305	CHL	C2C-C3C	4.50	1.46	1.36
29	1n	614	CLA	C3C-C2C	4.50	1.46	1.36
29	08	312	CLA	C3D-C4D	-4.50	1.34	1.44
30	02	607	CHL	O2A-CGA	4.50	1.45	1.30
30	1G	607	CHL	CHC-C1C	4.50	1.47	1.38
29	1C	501	CLA	C3D-C4D	-4.50	1.34	1.44
29	1R	312	CLA	C3C-C2C	4.49	1.46	1.36
30	02	605	CHL	O2A-CGA	4.49	1.45	1.30
30	01	302	CHL	O2A-CGA	4.49	1.45	1.30
30	06	601	CHL	O2A-CGA	4.49	1.45	1.30
29	09	310	CLA	C3A-C2A	-4.49	1.50	1.54
30	1r	307	CHL	O2A-CGA	4.49	1.45	1.30
30	01	304	CHL	C3D-C4D	-4.49	1.34	1.44
30	1n	607	CHL	C3D-C4D	-4.49	1.34	1.44
29	1G	611	CLA	O2A-CGA	4.49	1.45	1.30
30	09	307	CHL	C2C-C3C	4.49	1.46	1.36
30	05	304	CHL	O2A-CGA	4.49	1.45	1.30
30	01	305	CHL	O2A-CGA	4.49	1.45	1.30
29	1S	315	CLA	C3D-C4D	-4.49	1.34	1.44
30	07	303	CHL	C3D-C4D	-4.49	1.34	1.44
30	1r	307	CHL	C2C-C3C	4.49	1.46	1.36
29	1r	310	CLA	C3C-C2C	4.49	1.46	1.36
30	07	306	CHL	C2C-C3C	4.49	1.46	1.36
30	02	606	CHL	O2A-CGA	4.49	1.45	1.30
30	07	304	CHL	C2C-C3C	4.49	1.46	1.36
30	1n	609	CHL	C2C-C3C	4.49	1.46	1.36
29	01	311	CLA	CHC-C1C	4.49	1.47	1.38
29	1N	305	CLA	C3D-C4D	-4.49	1.34	1.44
30	09	307	CHL	CHC-C1C	4.49	1.47	1.38
29	04	310	CLA	O2A-CGA	4.49	1.45	1.30
29	1c	505	CLA	C3D-C4D	-4.49	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	01	303	CHL	C2C-C3C	4.49	1.46	1.36
30	1S	304	CHL	C2C-C3C	4.49	1.46	1.36
29	1r	311	CLA	O2A-CGA	4.49	1.45	1.30
30	1n	608	CHL	O2A-CGA	4.49	1.45	1.30
29	04	311	CLA	O2A-CGA	4.49	1.45	1.30
30	09	304	CHL	C3A-C2A	-4.49	1.50	1.54
29	05	302	CLA	O2A-CGA	4.49	1.45	1.30
30	1N	308	CHL	C2C-C3C	4.49	1.46	1.36
30	02	603	CHL	O2A-CGA	4.49	1.45	1.30
30	1N	307	CHL	O2A-CGA	4.49	1.45	1.30
29	04	310	CLA	C3D-C4D	-4.48	1.34	1.44
29	1N	312	CLA	C3D-C4D	-4.48	1.34	1.44
29	1R	308	CLA	CHC-C1C	4.48	1.47	1.38
30	01	303	CHL	O2A-CGA	4.48	1.45	1.30
29	1G	611	CLA	C3C-C2C	4.48	1.46	1.36
30	03	303	CHL	O2A-CGA	4.48	1.45	1.30
29	09	317	CLA	CHC-C1C	4.48	1.47	1.38
29	02	602	CLA	O2A-CGA	4.48	1.45	1.30
29	1B	605	CLA	C3D-C4D	-4.48	1.34	1.44
30	1s	308	CHL	O2A-CGA	4.48	1.45	1.30
29	00	309	CLA	C3D-C4D	-4.48	1.34	1.44
29	05	311	CLA	C3D-C4D	-4.48	1.34	1.44
29	1S	306	CLA	C3D-C4D	-4.48	1.34	1.44
29	1s	314	CLA	O2A-CGA	4.48	1.45	1.30
29	04	314	CLA	C3C-C2C	4.48	1.46	1.36
29	1c	513	CLA	O2A-CGA	4.48	1.45	1.30
29	02	614	CLA	O2A-CGA	4.48	1.45	1.30
29	1N	305	CLA	C3C-C2C	4.48	1.46	1.36
30	03	304	CHL	C3D-C4D	-4.48	1.34	1.44
29	02	612	CLA	O2A-CGA	4.48	1.45	1.30
29	05	303	CLA	O2A-CGA	4.48	1.45	1.30
30	1s	304	CHL	C2C-C3C	4.48	1.46	1.36
30	02	601	CHL	C3D-C4D	-4.48	1.34	1.44
29	06	610	CLA	C3C-C2C	4.48	1.46	1.36
29	05	301	CLA	C3D-C4D	-4.48	1.34	1.44
30	03	304	CHL	C2C-C3C	4.48	1.46	1.36
29	1g	610	CLA	C3D-C4D	-4.47	1.34	1.44
30	03	305	CHL	C2C-C3C	4.47	1.46	1.36
29	1n	602	CLA	CHC-C1C	4.47	1.47	1.38
30	1R	313	CHL	CHC-C1C	4.47	1.47	1.38
29	1b	611	CLA	C3D-C4D	-4.47	1.34	1.44
29	1n	612	CLA	O2A-CGA	4.47	1.45	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	604	CLA	C3D-C4D	-4.47	1.34	1.44
29	00	303	CLA	C3C-C2C	4.47	1.46	1.36
30	1G	608	CHL	C3D-C4D	-4.47	1.34	1.44
29	04	308	CLA	C3C-C2C	4.47	1.46	1.36
30	05	315	CHL	C3D-C4D	-4.47	1.34	1.44
29	03	301	CLA	CHC-C1C	4.47	1.47	1.38
30	1g	605	CHL	O2A-CGA	4.47	1.45	1.30
30	00	306	CHL	C3D-C4D	-4.47	1.34	1.44
29	01	310	CLA	C3D-C4D	-4.47	1.34	1.44
29	03	310	CLA	C3D-C4D	-4.47	1.34	1.44
29	1g	612	CLA	C3C-C2C	4.47	1.46	1.36
29	1g	614	CLA	O2A-CGA	4.47	1.45	1.30
30	06	606	CHL	O2A-CGA	4.47	1.45	1.30
30	02	605	CHL	C2C-C3C	4.47	1.46	1.36
30	07	303	CHL	C2C-C3C	4.47	1.46	1.36
29	1B	611	CLA	CHC-C1C	4.47	1.47	1.38
29	1G	613	CLA	O2A-CGA	4.47	1.45	1.30
29	1r	303	CLA	O2A-CGA	4.47	1.45	1.30
30	1n	605	CHL	C3D-C4D	-4.47	1.34	1.44
29	1a	406	CLA	C3C-C2C	4.47	1.46	1.36
29	09	309	CLA	C3D-C4D	-4.47	1.34	1.44
30	03	302	CHL	C3D-C4D	-4.47	1.34	1.44
29	1A	407	CLA	CHC-C1C	4.47	1.47	1.38
30	1r	307	CHL	C3D-C4D	-4.47	1.34	1.44
30	02	604	CHL	O2A-CGA	4.47	1.45	1.30
30	1r	313	CHL	CHC-C1C	4.47	1.47	1.38
29	1r	304	CLA	CHC-C1C	4.47	1.47	1.38
29	1N	304	CLA	O2A-CGA	4.46	1.45	1.30
29	1s	305	CLA	O2A-CGA	4.46	1.45	1.30
29	1S	316	CLA	C3C-C2C	4.46	1.46	1.36
29	04	306	CLA	CHC-C1C	4.46	1.47	1.38
29	08	308	CLA	C3D-C4D	-4.46	1.34	1.44
29	1B	607	CLA	C3D-C4D	-4.46	1.34	1.44
29	1S	310	CLA	C3D-C4D	-4.46	1.34	1.44
29	02	611	CLA	C3C-C2C	4.46	1.46	1.36
29	02	613	CLA	C3C-C2C	4.46	1.46	1.36
29	04	306	CLA	O2A-CGA	4.46	1.45	1.30
29	1N	313	CLA	C3C-C2C	4.46	1.46	1.36
29	1b	615	CLA	CHC-C1C	4.46	1.47	1.38
29	00	311	CLA	O2A-CGA	4.46	1.45	1.30
29	1S	316	CLA	C3D-C4D	-4.46	1.34	1.44
29	02	610	CLA	C3C-C2C	4.46	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	09	301	CLA	C3D-C4D	-4.46	1.34	1.44
30	1s	309	CHL	C2C-C3C	4.46	1.46	1.36
29	1C	511	CLA	CHC-C1C	4.46	1.47	1.38
29	00	312	CLA	C3D-C4D	-4.46	1.34	1.44
30	09	308	CHL	C2C-C3C	4.46	1.46	1.36
29	1c	508	CLA	C3D-C4D	-4.46	1.34	1.44
29	1N	303	CLA	C3D-C4D	-4.46	1.34	1.44
29	04	307	CLA	O2A-CGA	4.46	1.45	1.30
29	08	307	CLA	C3C-C2C	4.46	1.46	1.36
29	1c	503	CLA	C3C-C2C	4.46	1.46	1.36
29	02	608	CLA	CHC-C1C	4.45	1.47	1.38
30	1s	309	CHL	CHC-C1C	4.45	1.47	1.38
30	05	305	CHL	C3D-C4D	-4.45	1.34	1.44
29	1c	513	CLA	C3D-C4D	-4.45	1.34	1.44
29	05	303	CLA	CHC-C1C	4.45	1.47	1.38
29	1d	406	CLA	CHC-C1C	4.45	1.47	1.38
29	1c	509	CLA	C3D-C4D	-4.45	1.34	1.44
29	1c	503	CLA	C3D-C4D	-4.45	1.34	1.44
29	07	312	CLA	O2A-CGA	4.45	1.45	1.30
29	1D	402	CLA	C3C-C2C	4.45	1.46	1.36
29	00	312	CLA	O2A-CGA	4.45	1.45	1.30
29	1c	509	CLA	C3C-C2C	4.45	1.46	1.36
30	03	305	CHL	C3D-C4D	-4.45	1.34	1.44
30	00	304	CHL	C2C-C3C	4.45	1.46	1.36
29	04	312	CLA	C3C-C2C	4.45	1.46	1.36
29	1G	604	CLA	C3C-C2C	4.45	1.46	1.36
29	1r	303	CLA	C3C-C2C	4.45	1.46	1.36
29	1b	615	CLA	C3C-C2C	4.45	1.46	1.36
29	1G	613	CLA	C3C-C2C	4.45	1.46	1.36
29	1G	604	CLA	C3D-C4D	-4.45	1.34	1.44
29	05	301	CLA	C3C-C2C	4.44	1.46	1.36
29	01	301	CLA	C3D-C4D	-4.44	1.34	1.44
29	1S	305	CLA	C3D-C4D	-4.44	1.34	1.44
29	09	311	CLA	C3D-C4D	-4.44	1.34	1.44
29	01	310	CLA	CHC-C1C	4.44	1.47	1.38
29	1B	608	CLA	C3D-C4D	-4.44	1.34	1.44
29	1D	402	CLA	C3D-C4D	-4.44	1.34	1.44
30	06	606	CHL	C2C-C3C	4.44	1.46	1.36
30	1N	302	CHL	CHD-C1D	4.44	1.47	1.38
29	1R	314	CLA	C3C-C2C	4.44	1.46	1.36
29	1g	614	CLA	C3C-C2C	4.44	1.46	1.36
29	07	309	CLA	C3D-C4D	-4.44	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1G	603	CLA	CHC-C1C	4.44	1.47	1.38
30	03	305	CHL	O2A-CGA	4.44	1.45	1.30
29	1c	506	CLA	C3C-C2C	4.44	1.46	1.36
29	03	310	CLA	CHC-C1C	4.44	1.47	1.38
30	05	306	CHL	C2C-C3C	4.44	1.46	1.36
29	1A	407	CLA	O2A-CGA	4.44	1.45	1.30
29	1C	513	CLA	CHC-C1C	4.44	1.47	1.38
29	05	308	CLA	C3D-C4D	-4.44	1.34	1.44
29	07	310	CLA	C3C-C2C	4.44	1.46	1.36
31	09	313	LUT	C10-C9	4.44	1.41	1.35
29	1r	304	CLA	C3D-C4D	-4.44	1.34	1.44
30	03	303	CHL	CHD-C1D	4.44	1.47	1.38
29	1c	511	CLA	O2A-CGA	4.44	1.45	1.30
29	1C	512	CLA	CHC-C1C	4.44	1.47	1.38
29	1G	610	CLA	O2A-CGA	4.44	1.45	1.30
29	04	309	CLA	C3C-C2C	4.44	1.46	1.36
29	1d	403	CLA	C3D-C4D	-4.44	1.34	1.44
29	1R	309	CLA	O2A-CGA	4.44	1.45	1.30
29	1b	617	CLA	O2A-CGA	4.44	1.45	1.30
30	1r	306	CHL	O2A-CGA	4.44	1.45	1.30
29	1b	605	CLA	C3C-C2C	4.44	1.46	1.36
29	04	311	CLA	CHC-C1C	4.43	1.47	1.38
29	03	312	CLA	O2A-CGA	4.43	1.45	1.30
29	03	301	CLA	C3C-C2C	4.43	1.46	1.36
29	05	310	CLA	C3C-C2C	4.43	1.46	1.36
30	1G	605	CHL	C2C-C3C	4.43	1.46	1.36
29	1g	604	CLA	C3D-C4D	-4.43	1.34	1.44
29	1C	504	CLA	CHC-C1C	4.43	1.47	1.38
29	1s	312	CLA	C3D-C4D	-4.43	1.34	1.44
29	1R	311	CLA	C3C-C2C	4.43	1.46	1.36
29	1C	502	CLA	C3D-C4D	-4.43	1.34	1.44
29	09	310	CLA	C3C-C2C	4.43	1.46	1.36
31	1s	318	LUT	C34-C33	4.43	1.41	1.35
29	1n	604	CLA	C3C-C2C	4.43	1.46	1.36
30	1g	607	CHL	C3D-C4D	-4.43	1.34	1.44
30	01	302	CHL	C3D-C4D	-4.43	1.34	1.44
29	05	309	CLA	C3C-C2C	4.43	1.46	1.36
30	09	304	CHL	C2C-C3C	4.43	1.46	1.36
29	09	303	CLA	C3C-C2C	4.43	1.46	1.36
29	06	602	CLA	C3C-C2C	4.43	1.46	1.36
29	1C	508	CLA	CHB-C1B	4.43	1.49	1.39
29	06	607	CLA	CHC-C1C	4.43	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1A	404	CLA	CHC-C1C	4.43	1.47	1.38
30	07	311	CHL	C3A-C2A	-4.43	1.50	1.54
29	1c	503	CLA	CHC-C1C	4.43	1.47	1.38
29	04	308	CLA	C3D-C4D	-4.42	1.34	1.44
30	04	301	CHL	O2A-CGA	4.42	1.45	1.30
29	08	311	CLA	CHC-C1C	4.42	1.47	1.38
29	09	310	CLA	C3D-C4D	-4.42	1.34	1.44
29	1n	603	CLA	C3D-C4D	-4.42	1.34	1.44
29	01	313	CLA	CHC-C1C	4.42	1.47	1.38
29	1n	603	CLA	C3C-C2C	4.42	1.46	1.36
30	08	303	CHL	O2A-CGA	4.42	1.45	1.30
30	1N	308	CHL	CHC-C1C	4.42	1.47	1.38
29	04	312	CLA	C3D-C4D	-4.42	1.34	1.44
29	1D	401	CLA	C3D-C4D	-4.42	1.34	1.44
30	1R	313	CHL	CHD-C1D	4.42	1.47	1.38
29	1c	504	CLA	C3D-C4D	-4.42	1.34	1.44
30	1n	608	CHL	C3D-C4D	-4.42	1.34	1.44
29	1S	310	CLA	C3C-C2C	4.42	1.46	1.36
29	02	614	CLA	C3D-C4D	-4.42	1.34	1.44
29	1R	310	CLA	C3D-C4D	-4.42	1.34	1.44
29	1B	616	CLA	C3C-C2C	4.42	1.46	1.36
29	1c	506	CLA	C3D-C4D	-4.42	1.34	1.44
29	1d	407	CLA	C3C-C2C	4.42	1.46	1.36
29	1s	316	CLA	C3C-C2C	4.42	1.46	1.36
30	04	303	CHL	C2C-C3C	4.42	1.46	1.36
29	1S	313	CLA	C3D-C4D	-4.42	1.34	1.44
30	1g	606	CHL	C2C-C3C	4.42	1.46	1.36
29	03	307	CLA	C3C-C2C	4.42	1.46	1.36
30	1r	306	CHL	C2C-C3C	4.42	1.46	1.36
29	1a	405	CLA	CHC-C1C	4.42	1.47	1.38
29	1g	603	CLA	C3D-C4D	-4.42	1.34	1.44
29	1s	307	CLA	C3C-C2C	4.42	1.46	1.36
29	1B	609	CLA	C3D-C4D	-4.42	1.34	1.44
29	1B	604	CLA	C3C-C2C	4.41	1.46	1.36
30	1g	607	CHL	CHC-C1C	4.41	1.47	1.38
29	1G	612	CLA	C3D-C4D	-4.41	1.34	1.44
29	1b	616	CLA	C3D-C4D	-4.41	1.34	1.44
29	1r	314	CLA	C3D-C4D	-4.41	1.34	1.44
29	1r	304	CLA	C3C-C2C	4.41	1.46	1.36
31	1R	315	LUT	C34-C33	4.41	1.41	1.35
29	01	309	CLA	C3C-C2C	4.41	1.46	1.36
29	1S	316	CLA	CHC-C1C	4.41	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1b	602	CLA	C3D-C4D	-4.41	1.34	1.44
29	1r	308	CLA	C3D-C4D	-4.41	1.34	1.44
29	1g	610	CLA	O2A-CGA	4.41	1.46	1.33
29	1N	311	CLA	C3D-C4D	-4.41	1.34	1.44
29	1g	604	CLA	C3C-C2C	4.41	1.46	1.36
29	1c	515	CLA	CHC-C1C	4.41	1.47	1.38
29	08	309	CLA	C3D-C4D	-4.41	1.34	1.44
29	1R	311	CLA	C3D-C4D	-4.41	1.34	1.44
30	01	304	CHL	C2C-C3C	4.41	1.46	1.36
30	1R	303	CHL	CHD-C1D	4.41	1.47	1.38
29	03	309	CLA	C3C-C2C	4.41	1.46	1.36
30	05	305	CHL	CHC-C1C	4.41	1.47	1.38
29	05	301	CLA	C3A-C2A	-4.41	1.50	1.54
29	1N	315	CLA	CHC-C1C	4.41	1.47	1.38
29	1R	308	CLA	C3C-C2C	4.41	1.46	1.36
29	08	307	CLA	C3D-C4D	-4.41	1.34	1.44
29	07	309	CLA	C3C-C2C	4.41	1.46	1.36
29	1B	610	CLA	CHC-C1C	4.41	1.47	1.38
29	00	303	CLA	C3D-C4D	-4.41	1.34	1.44
30	08	302	CHL	CHC-C1C	4.41	1.47	1.38
29	04	307	CLA	C3D-C4D	-4.41	1.34	1.44
30	08	303	CHL	C2C-C3C	4.41	1.46	1.36
29	01	311	CLA	C3C-C2C	4.40	1.46	1.36
29	03	312	CLA	C3C-C2C	4.40	1.46	1.36
29	1S	312	CLA	C3C-C2C	4.40	1.46	1.36
29	02	608	CLA	C3D-C4D	-4.40	1.34	1.44
29	1B	602	CLA	C3C-C2C	4.40	1.46	1.36
30	02	607	CHL	CHD-C1D	4.40	1.46	1.38
29	1N	304	CLA	C3D-C4D	-4.40	1.34	1.44
29	02	602	CLA	CHC-C1C	4.40	1.47	1.38
29	05	309	CLA	CHC-C1C	4.40	1.47	1.38
29	06	607	CLA	C3D-C4D	-4.40	1.34	1.44
29	1N	315	CLA	C3D-C4D	-4.40	1.34	1.44
29	1s	313	CLA	C3D-C4D	-4.40	1.34	1.44
30	05	307	CHL	CHC-C1C	4.40	1.47	1.38
29	07	307	CLA	C3C-C2C	4.40	1.46	1.36
29	1n	612	CLA	C3C-C2C	4.40	1.46	1.36
29	04	308	CLA	CHC-C1C	4.40	1.47	1.38
30	05	306	CHL	CHC-C1C	4.40	1.47	1.38
29	1G	613	CLA	CHC-C1C	4.40	1.47	1.38
30	1r	306	CHL	CHC-C1C	4.40	1.47	1.38
29	1d	407	CLA	C3D-C4D	-4.40	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	08	308	CLA	C3C-C2C	4.40	1.46	1.36
29	07	301	CLA	C3C-C2C	4.40	1.46	1.36
29	1c	512	CLA	C3C-C2C	4.40	1.46	1.36
30	00	308	CHL	O2A-CGA	4.40	1.46	1.33
29	1n	614	CLA	C3D-C4D	-4.40	1.34	1.44
29	1D	405	CLA	C3C-C2C	4.40	1.46	1.36
30	1s	310	CHL	CHD-C1D	4.40	1.46	1.38
29	1s	311	CLA	C3C-C2C	4.40	1.46	1.36
29	1r	303	CLA	C3D-C4D	-4.39	1.34	1.44
29	1C	510	CLA	C3D-C4D	-4.39	1.34	1.44
30	1G	608	CHL	CHC-C1C	4.39	1.47	1.38
30	05	313	CHL	C3A-C2A	-4.39	1.50	1.54
29	1b	610	CLA	C3D-C4D	-4.39	1.34	1.44
29	1G	614	CLA	C3D-C4D	-4.39	1.34	1.44
29	00	302	CLA	C3D-C4D	-4.39	1.34	1.44
29	03	308	CLA	C3D-C4D	-4.39	1.34	1.44
29	1R	309	CLA	CHC-C1C	4.39	1.47	1.38
29	1B	601	CLA	C3C-C2C	4.39	1.46	1.36
29	1C	507	CLA	C3C-C2C	4.39	1.46	1.36
29	1R	306	CLA	C3D-C4D	-4.39	1.34	1.44
29	08	306	CLA	C3D-C4D	-4.39	1.34	1.44
29	1D	405	CLA	C3D-C4D	-4.39	1.34	1.44
30	06	601	CHL	CHD-C1D	4.39	1.46	1.38
30	06	605	CHL	CHC-C1C	4.39	1.47	1.38
29	1n	610	CLA	O2A-CGA	4.39	1.46	1.33
29	05	311	CLA	CHC-C1C	4.39	1.47	1.38
29	1C	507	CLA	C3D-C4D	-4.39	1.34	1.44
30	1n	608	CHL	CHC-C1C	4.39	1.47	1.38
29	1a	406	CLA	C3D-C4D	-4.39	1.34	1.44
29	09	311	CLA	C3C-C2C	4.39	1.46	1.36
29	1S	314	CLA	C3C-C2C	4.39	1.46	1.36
30	08	301	CHL	CHD-C1D	4.39	1.46	1.38
29	1C	504	CLA	C3C-C2C	4.39	1.46	1.36
29	00	302	CLA	C3C-C2C	4.39	1.46	1.36
29	1d	403	CLA	C3C-C2C	4.39	1.46	1.36
29	04	307	CLA	C3C-C2C	4.38	1.46	1.36
29	1G	603	CLA	C3D-C4D	-4.38	1.34	1.44
29	07	312	CLA	CHC-C1C	4.38	1.47	1.38
29	1R	314	CLA	C3D-C4D	-4.38	1.34	1.44
29	1g	612	CLA	C3D-C4D	-4.38	1.34	1.44
29	06	608	CLA	CHC-C1C	4.38	1.47	1.38
29	03	307	CLA	C3D-C4D	-4.38	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1n	602	CLA	O2A-CGA	4.38	1.46	1.33
30	1S	309	CHL	CHD-C1D	4.38	1.46	1.38
29	06	608	CLA	C3D-C4D	-4.38	1.34	1.44
29	05	308	CLA	C3C-C2C	4.38	1.46	1.36
29	1r	309	CLA	C3C-C2C	4.38	1.46	1.36
31	1g	615	LUT	C34-C33	4.38	1.41	1.35
30	03	302	CHL	CHC-C1C	4.38	1.47	1.38
30	1n	601	CHL	C2C-C3C	4.38	1.46	1.36
29	01	307	CLA	O2A-CGA	4.38	1.46	1.33
29	00	318	CLA	CHC-C1C	4.38	1.47	1.38
30	02	604	CHL	CHC-C1C	4.38	1.47	1.38
30	07	305	CHL	C2C-C3C	4.38	1.46	1.36
29	01	308	CLA	C3D-C4D	-4.38	1.34	1.44
29	09	302	CLA	C3D-C4D	-4.38	1.34	1.44
30	1R	303	CHL	C2C-C3C	4.38	1.46	1.36
30	09	308	CHL	O2A-CGA	4.38	1.46	1.33
30	06	606	CHL	CHC-C1C	4.38	1.47	1.38
29	02	612	CLA	C3D-C4D	-4.38	1.34	1.44
29	1r	312	CLA	C3D-C4D	-4.38	1.34	1.44
29	06	610	CLA	CHC-C1C	4.38	1.47	1.38
29	06	611	CLA	C3D-C4D	-4.37	1.34	1.44
29	00	310	CLA	C3C-C2C	4.37	1.46	1.36
29	1G	611	CLA	C3D-C4D	-4.37	1.34	1.44
30	1N	310	CHL	O2A-CGA	4.37	1.46	1.33
29	1a	408	CLA	CHC-C1C	4.37	1.47	1.38
30	02	603	CHL	CHC-C1C	4.37	1.47	1.38
30	06	604	CHL	CHC-C1C	4.37	1.47	1.38
29	1n	611	CLA	O2A-CGA	4.37	1.46	1.33
29	1c	503	CLA	O2A-CGA	4.37	1.46	1.33
30	05	313	CHL	C2C-C3C	4.37	1.46	1.36
29	07	310	CLA	C3D-C4D	-4.37	1.34	1.44
29	1S	313	CLA	O2A-CGA	4.37	1.46	1.33
29	1r	308	CLA	C3C-C2C	4.37	1.46	1.36
29	1B	615	CLA	CHC-C1C	4.37	1.47	1.38
30	1n	605	CHL	CHC-C1C	4.37	1.47	1.38
29	1R	312	CLA	C3D-C4D	-4.37	1.34	1.44
29	1c	511	CLA	C3D-C4D	-4.37	1.34	1.44
29	1n	604	CLA	C3A-C2A	-4.37	1.50	1.54
29	1s	312	CLA	C3C-C2C	4.37	1.46	1.36
30	1G	601	CHL	C2C-C3C	4.37	1.46	1.36
30	06	603	CHL	CHC-C1C	4.37	1.47	1.38
30	1g	609	CHL	CHD-C1D	4.37	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	07	312	CLA	C3C-C2C	4.37	1.46	1.36
31	1G	615	LUT	C10-C9	4.37	1.41	1.35
29	1b	607	CLA	C3C-C2C	4.37	1.46	1.36
29	1S	312	CLA	C3D-C4D	-4.36	1.34	1.44
29	1R	310	CLA	O2A-CGA	4.36	1.46	1.33
29	1r	309	CLA	O2A-CGA	4.36	1.46	1.33
29	1c	510	CLA	C3D-C4D	-4.36	1.34	1.44
29	00	309	CLA	O2A-CGA	4.36	1.46	1.33
29	1s	312	CLA	CHC-C1C	4.36	1.47	1.38
29	00	302	CLA	O2A-CGA	4.36	1.46	1.33
29	1c	511	CLA	C3C-C2C	4.36	1.46	1.36
29	1B	615	CLA	C3D-C4D	-4.36	1.34	1.44
29	03	312	CLA	C3D-C4D	-4.36	1.34	1.44
29	1B	606	CLA	C3C-C2C	4.36	1.46	1.36
29	07	312	CLA	C3D-C4D	-4.36	1.34	1.44
30	06	601	CHL	CHC-C1C	4.36	1.47	1.38
29	02	611	CLA	CHC-C1C	4.35	1.47	1.38
29	01	313	CLA	C3D-C4D	-4.35	1.34	1.44
29	1s	307	CLA	C3D-C4D	-4.35	1.34	1.44
29	1N	312	CLA	C3C-C2C	4.35	1.46	1.36
29	04	311	CLA	C3D-C4D	-4.35	1.34	1.44
30	07	303	CHL	CHC-C1C	4.35	1.47	1.38
29	03	308	CLA	C3C-C2C	4.35	1.46	1.36
29	09	312	CLA	C3C-C2C	4.35	1.46	1.36
29	05	312	CLA	CHC-C1C	4.35	1.47	1.38
30	03	302	CHL	C3A-C2A	-4.35	1.50	1.54
29	1S	306	CLA	C3C-C2C	4.35	1.46	1.36
30	01	305	CHL	CHC-C1C	4.35	1.47	1.38
30	1N	310	CHL	CHD-C1D	4.35	1.46	1.38
29	02	609	CLA	CHC-C1C	4.35	1.47	1.38
29	09	309	CLA	CHC-C1C	4.35	1.47	1.38
29	1g	611	CLA	C3C-C2C	4.35	1.46	1.36
29	1a	405	CLA	O2A-CGA	4.35	1.46	1.33
30	07	304	CHL	CHC-C1C	4.35	1.47	1.38
29	1s	315	CLA	O2A-CGA	4.35	1.46	1.33
29	1r	310	CLA	C3D-C4D	-4.35	1.34	1.44
29	1s	315	CLA	C3D-C4D	-4.35	1.34	1.44
29	1c	505	CLA	C3C-C2C	4.35	1.46	1.36
29	1C	501	CLA	O2A-CGA	4.35	1.46	1.33
29	1C	508	CLA	O2A-CGA	4.35	1.46	1.33
29	06	610	CLA	C3D-C4D	-4.35	1.34	1.44
29	1c	515	CLA	O2A-CGA	4.35	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	08	312	CLA	CHC-C1C	4.35	1.47	1.38
30	05	305	CHL	C2C-C3C	4.35	1.46	1.36
29	1B	615	CLA	C3A-C2A	-4.35	1.50	1.54
29	1C	508	CLA	C3D-C4D	-4.35	1.34	1.44
29	00	309	CLA	C3C-C2C	4.35	1.46	1.36
29	1s	313	CLA	C3C-C2C	4.35	1.46	1.36
29	1r	311	CLA	C3D-C4D	-4.35	1.34	1.44
29	08	310	CLA	C3D-C4D	-4.35	1.34	1.44
40	1r	301	PL9	C3-C4	-4.35	1.42	1.49
29	1B	607	CLA	C3C-C2C	4.34	1.46	1.36
29	1B	615	CLA	C3C-C2C	4.34	1.46	1.36
29	08	307	CLA	CHC-C1C	4.34	1.47	1.38
29	07	307	CLA	C3D-C4D	-4.34	1.34	1.44
29	1B	602	CLA	O2A-CGA	4.34	1.46	1.33
30	04	304	CHL	CHC-C1C	4.34	1.47	1.38
30	1S	309	CHL	CHC-C1C	4.34	1.47	1.38
29	09	303	CLA	C3A-C2A	-4.34	1.50	1.54
30	00	307	CHL	CHC-C1C	4.34	1.47	1.38
29	1S	311	CLA	C3C-C2C	4.34	1.46	1.36
29	1G	612	CLA	O2A-CGA	4.34	1.46	1.33
29	1g	611	CLA	C3D-C4D	-4.34	1.34	1.44
29	01	312	CLA	CHC-C1C	4.34	1.47	1.38
30	1g	608	CHL	CHC-C1C	4.34	1.47	1.38
29	00	311	CLA	C3C-C2C	4.34	1.45	1.36
30	1G	605	CHL	CHC-C1C	4.34	1.47	1.38
29	03	309	CLA	C3D-C4D	-4.34	1.34	1.44
30	03	302	CHL	CHD-C1D	4.34	1.46	1.38
29	09	312	CLA	C3D-C4D	-4.34	1.34	1.44
29	1n	614	CLA	CHC-C1C	4.34	1.47	1.38
29	00	310	CLA	O2A-CGA	4.34	1.46	1.33
29	1s	314	CLA	C3C-C2C	4.34	1.45	1.36
29	00	318	CLA	O2A-CGA	4.33	1.46	1.33
30	1s	308	CHL	C2C-C3C	4.33	1.46	1.36
29	02	602	CLA	C3D-C4D	-4.33	1.34	1.44
35	1h	101	BCR	C14-C13	4.33	1.41	1.35
29	1r	312	CLA	O2A-CGA	4.33	1.46	1.33
30	01	306	CHL	CHC-C1C	4.33	1.47	1.38
29	1G	614	CLA	C3C-C2C	4.33	1.45	1.36
29	07	308	CLA	C3D-C4D	-4.33	1.34	1.44
29	1r	303	CLA	CHC-C1C	4.33	1.47	1.38
29	1b	612	CLA	C3D-C4D	-4.33	1.34	1.44
29	1b	604	CLA	O2A-CGA	4.33	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1n	613	CLA	C3C-C2C	4.33	1.45	1.36
29	04	312	CLA	CHC-C1C	4.33	1.47	1.38
29	1n	611	CLA	CHC-C1C	4.33	1.47	1.38
29	1R	312	CLA	CHC-C1C	4.33	1.47	1.38
30	09	306	CHL	CHC-C1C	4.33	1.47	1.38
29	1G	613	CLA	C3D-C4D	-4.33	1.34	1.44
30	07	305	CHL	CHC-C1C	4.33	1.47	1.38
29	1R	308	CLA	O2A-CGA	4.33	1.46	1.33
29	01	301	CLA	O2A-CGA	4.33	1.46	1.33
30	08	305	CHL	CHD-C1D	4.33	1.46	1.38
29	1g	610	CLA	C3C-C2C	4.33	1.45	1.36
29	1c	506	CLA	O2A-CGA	4.33	1.46	1.33
30	1n	609	CHL	CHC-C1C	4.32	1.47	1.38
30	04	304	CHL	CHD-C1D	4.32	1.46	1.38
29	02	610	CLA	C3D-C4D	-4.32	1.34	1.44
29	1N	313	CLA	CHC-C1C	4.32	1.47	1.38
30	02	606	CHL	CHC-C1C	4.32	1.47	1.38
29	1c	513	CLA	C3C-C2C	4.32	1.45	1.36
29	05	302	CLA	C3D-C4D	-4.32	1.34	1.44
29	1R	309	CLA	C4B-NB	-4.32	1.32	1.37
30	1g	605	CHL	CHC-C1C	4.32	1.47	1.38
30	01	305	CHL	C3D-C4D	-4.32	1.34	1.44
29	04	309	CLA	CHC-C1C	4.32	1.47	1.38
29	1R	310	CLA	CHC-C1C	4.32	1.47	1.38
30	1S	307	CHL	CHC-C1C	4.32	1.47	1.38
30	09	306	CHL	C2C-C3C	4.32	1.46	1.36
29	1s	306	CLA	C3C-C2C	4.32	1.45	1.36
30	06	603	CHL	CHD-C1D	4.32	1.46	1.38
29	09	301	CLA	O2A-CGA	4.32	1.46	1.33
30	04	303	CHL	O2A-CGA	4.32	1.45	1.30
29	1C	513	CLA	C3D-C4D	-4.32	1.34	1.44
30	07	304	CHL	CHD-C1D	4.32	1.46	1.38
29	1g	614	CLA	C3D-C4D	-4.32	1.34	1.44
29	1B	609	CLA	O2A-CGA	4.32	1.46	1.33
29	1g	610	CLA	CHC-C1C	4.32	1.47	1.38
30	05	315	CHL	CHC-C1C	4.32	1.47	1.38
29	1B	603	CLA	C3C-C2C	4.31	1.45	1.36
30	05	313	CHL	CHD-C1D	4.31	1.46	1.38
30	1R	305	CHL	CHD-C1D	4.31	1.46	1.38
30	1r	305	CHL	C2C-C3C	4.31	1.46	1.36
29	08	310	CLA	CHC-C1C	4.31	1.47	1.38
29	06	609	CLA	C3C-C2C	4.31	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	01	306	CHL	CHD-C1D	4.31	1.46	1.38
30	06	606	CHL	CHD-C1D	4.31	1.46	1.38
29	1r	314	CLA	CHC-C1C	4.31	1.47	1.38
29	1b	609	CLA	C3C-C2C	4.31	1.45	1.36
30	1R	305	CHL	CHC-C1C	4.31	1.47	1.38
29	07	308	CLA	CHC-C1C	4.31	1.47	1.38
29	03	312	CLA	CHC-C1C	4.31	1.47	1.38
29	1N	305	CLA	CHC-C1C	4.31	1.47	1.38
29	1B	612	CLA	C3C-C2C	4.31	1.45	1.36
29	1n	613	CLA	O2A-CGA	4.31	1.45	1.33
29	00	318	CLA	C3D-C4D	-4.31	1.34	1.44
29	1R	306	CLA	CHC-C1C	4.31	1.47	1.38
29	1s	314	CLA	CHC-C1C	4.31	1.47	1.38
29	1C	506	CLA	C3C-C2C	4.31	1.45	1.36
29	1D	405	CLA	CHC-C1C	4.31	1.47	1.38
30	02	604	CHL	CHD-C1D	4.31	1.46	1.38
29	1B	612	CLA	CHC-C1C	4.31	1.47	1.38
29	1S	306	CLA	C3A-C2A	-4.31	1.50	1.54
29	01	312	CLA	C3D-C4D	-4.31	1.34	1.44
29	1n	610	CLA	C3C-C2C	4.31	1.45	1.36
29	1B	611	CLA	CHB-C1B	4.31	1.49	1.39
30	03	311	CHL	CHC-C1C	4.30	1.47	1.38
29	07	309	CLA	CHC-C1C	4.30	1.47	1.38
29	00	311	CLA	CHC-C1C	4.30	1.47	1.38
29	1C	509	CLA	CHC-C1C	4.30	1.47	1.38
29	1g	613	CLA	O2A-CGA	4.30	1.45	1.33
30	1G	609	CHL	CHD-C1D	4.30	1.46	1.38
29	01	311	CLA	C3D-C4D	-4.30	1.34	1.44
29	02	609	CLA	C3D-C4D	-4.30	1.34	1.44
29	00	303	CLA	O2A-CGA	4.30	1.45	1.33
30	04	302	CHL	CHD-C1D	4.30	1.46	1.38
30	04	305	CHL	CHD-C1D	4.30	1.46	1.38
31	1n	615	LUT	C34-C33	4.30	1.41	1.35
29	04	314	CLA	CHC-C1C	4.30	1.47	1.38
31	1G	615	LUT	C34-C33	4.30	1.41	1.35
30	07	305	CHL	CHD-C1D	4.30	1.46	1.38
29	1C	510	CLA	O2A-CGA	4.30	1.45	1.33
29	09	302	CLA	CHC-C1C	4.30	1.47	1.38
30	1N	306	CHL	CHD-C1D	4.30	1.46	1.38
29	07	302	CLA	CHC-C1C	4.30	1.47	1.38
29	1S	312	CLA	CHC-C1C	4.30	1.47	1.38
29	1B	604	CLA	CHC-C1C	4.30	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1r	310	CLA	CHC-C1C	4.30	1.47	1.38
30	03	305	CHL	CHC-C1C	4.30	1.47	1.38
30	1s	310	CHL	CHC-C1C	4.30	1.47	1.38
29	01	310	CLA	O2A-CGA	4.30	1.45	1.33
30	01	304	CHL	CHC-C1C	4.30	1.47	1.38
29	07	302	CLA	OBD-CAD	4.30	1.29	1.22
30	1N	306	CHL	CHC-C1C	4.30	1.47	1.38
30	01	302	CHL	CHC-C1C	4.30	1.47	1.38
30	1g	606	CHL	O2A-CGA	4.29	1.45	1.33
29	05	309	CLA	C3D-C4D	-4.29	1.34	1.44
29	1c	514	CLA	C3D-C4D	-4.29	1.34	1.44
30	1S	307	CHL	CHD-C1D	4.29	1.46	1.38
29	01	308	CLA	CHC-C1C	4.29	1.47	1.38
29	1C	503	CLA	C3C-C2C	4.29	1.45	1.36
29	1R	314	CLA	CHC-C1C	4.29	1.47	1.38
30	08	303	CHL	CHC-C1C	4.29	1.47	1.38
30	04	305	CHL	CHC-C1C	4.29	1.47	1.38
30	1s	308	CHL	CHC-C1C	4.29	1.47	1.38
30	00	304	CHL	CHC-C1C	4.29	1.47	1.38
30	08	304	CHL	CHC-C1C	4.29	1.47	1.38
31	1G	615	LUT	C14-C13	4.29	1.41	1.35
30	1r	307	CHL	CHC-C1C	4.29	1.47	1.38
29	1B	612	CLA	O2A-CGA	4.29	1.45	1.33
29	1s	312	CLA	O2A-CGA	4.29	1.45	1.33
34	1c	518	DGD	O1G-C1A	4.29	1.45	1.33
29	1N	313	CLA	C3D-C4D	-4.29	1.34	1.44
30	07	306	CHL	CHC-C1C	4.29	1.47	1.38
29	1c	510	CLA	C3C-C2C	4.29	1.45	1.36
29	1g	602	CLA	O2A-CGA	4.29	1.45	1.33
29	04	310	CLA	CHC-C1C	4.29	1.47	1.38
29	1d	403	CLA	CHC-C1C	4.29	1.47	1.38
30	1G	607	CHL	O2A-CGA	4.29	1.45	1.33
29	1s	307	CLA	CHC-C1C	4.29	1.47	1.38
29	1n	611	CLA	C3C-C2C	4.29	1.45	1.36
29	1C	510	CLA	C3C-C2C	4.29	1.45	1.36
29	1g	613	CLA	CHC-C1C	4.29	1.47	1.38
30	06	605	CHL	CHD-C1D	4.29	1.46	1.38
29	06	611	CLA	CHC-C1C	4.28	1.47	1.38
30	1g	609	CHL	O2A-CGA	4.28	1.45	1.33
30	09	308	CHL	CHD-C1D	4.28	1.46	1.38
30	00	306	CHL	C2C-C3C	4.28	1.45	1.36
30	1n	607	CHL	CHC-C1C	4.28	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1g	612	CLA	O2A-CGA	4.28	1.45	1.33
29	03	309	CLA	CHC-C1C	4.28	1.47	1.38
29	00	310	CLA	CHC-C1C	4.28	1.47	1.38
30	1n	601	CHL	CHC-C1C	4.28	1.47	1.38
29	1R	306	CLA	C3C-C2C	4.28	1.45	1.36
29	07	309	CLA	O2A-CGA	4.28	1.45	1.33
29	05	311	CLA	C3C-C2C	4.28	1.45	1.36
29	02	613	CLA	C3D-C4D	-4.28	1.34	1.44
29	09	310	CLA	CHC-C1C	4.28	1.47	1.38
29	05	310	CLA	C3D-C4D	-4.28	1.34	1.44
29	1C	506	CLA	C3D-C4D	-4.28	1.34	1.44
29	1n	612	CLA	C3D-C4D	-4.28	1.34	1.44
30	08	305	CHL	CHC-C1C	4.28	1.47	1.38
29	1G	612	CLA	C3C-C2C	4.28	1.45	1.36
34	1B	627	DGD	O1G-C1A	4.28	1.45	1.33
30	1G	607	CHL	CHD-C1D	4.28	1.46	1.38
30	1n	601	CHL	CHD-C1D	4.27	1.46	1.38
29	1G	614	CLA	CHC-C1C	4.27	1.47	1.38
30	00	306	CHL	CHC-C1C	4.27	1.47	1.38
29	1r	308	CLA	O2A-CGA	4.27	1.45	1.33
29	1b	607	CLA	CHC-C1C	4.27	1.47	1.38
29	08	306	CLA	C3C-C2C	4.27	1.45	1.36
29	1s	315	CLA	C3C-C2C	4.27	1.45	1.36
30	05	315	CHL	CHD-C1D	4.27	1.46	1.38
29	06	609	CLA	CHC-C1C	4.27	1.47	1.38
29	00	311	CLA	C3D-C4D	-4.27	1.34	1.44
29	01	308	CLA	O2A-CGA	4.27	1.45	1.33
29	08	309	CLA	CHC-C1C	4.27	1.47	1.38
30	07	306	CHL	CHD-C1D	4.27	1.46	1.38
29	02	613	CLA	CHC-C1C	4.27	1.47	1.38
30	01	302	CHL	CHD-C1D	4.27	1.46	1.38
30	03	304	CHL	CHD-C1D	4.27	1.46	1.38
29	1b	608	CLA	O2A-CGA	4.27	1.45	1.33
30	00	307	CHL	O2A-CGA	4.27	1.45	1.33
29	06	609	CLA	C3D-C4D	-4.27	1.34	1.44
29	1d	407	CLA	O2A-CGA	4.27	1.45	1.33
29	05	302	CLA	C3C-C2C	4.27	1.45	1.36
29	1r	302	CLA	C3C-C2C	4.27	1.45	1.36
29	09	302	CLA	O2A-CGA	4.27	1.45	1.33
30	02	601	CHL	CHD-C1D	4.27	1.46	1.38
29	07	301	CLA	CHC-C1C	4.27	1.47	1.38
34	1B	626	DGD	O1G-C1A	4.27	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	02	610	CLA	CHC-C1C	4.27	1.47	1.38
30	1n	605	CHL	CHD-C1D	4.27	1.46	1.38
29	1s	307	CLA	C3A-C2A	-4.26	1.50	1.54
29	1b	604	CLA	C3C-C2C	4.26	1.45	1.36
29	09	317	CLA	C3D-C4D	-4.26	1.34	1.44
30	1g	607	CHL	CHD-C1D	4.26	1.46	1.38
30	02	607	CHL	CHC-C1C	4.26	1.47	1.38
30	1N	309	CHL	C2C-C3C	4.26	1.45	1.36
29	1d	406	CLA	O2A-CGA	4.26	1.45	1.33
29	02	611	CLA	C3D-C4D	-4.26	1.34	1.44
29	1a	408	CLA	O2A-CGA	4.26	1.45	1.33
30	02	603	CHL	CHD-C1D	4.26	1.46	1.38
30	07	311	CHL	CHD-C1D	4.26	1.46	1.38
29	1b	616	CLA	CHC-C1C	4.26	1.47	1.38
30	1S	308	CHL	CHC-C1C	4.26	1.47	1.38
30	05	313	CHL	CHC-C1C	4.26	1.47	1.38
29	00	312	CLA	C3C-C2C	4.26	1.45	1.36
29	1c	507	CLA	CHC-C1C	4.26	1.47	1.38
35	1j	101	BCR	C21-C22	4.26	1.41	1.35
30	06	604	CHL	CHD-C1D	4.26	1.46	1.38
29	1N	314	CLA	C3C-C2C	4.26	1.45	1.36
29	1B	605	CLA	C3C-C2C	4.26	1.45	1.36
30	1r	307	CHL	CHD-C1D	4.26	1.46	1.38
31	1n	615	LUT	C10-C9	4.26	1.41	1.35
29	1N	312	CLA	C3A-C2A	-4.25	1.50	1.54
29	06	602	CLA	O2A-CGA	4.25	1.45	1.33
30	1g	605	CHL	CHD-C1D	4.25	1.46	1.38
30	1G	609	CHL	CHC-C1C	4.25	1.47	1.38
29	1D	401	CLA	C3C-C2C	4.25	1.45	1.36
29	1c	509	CLA	O2A-CGA	4.25	1.45	1.33
30	00	307	CHL	CHD-C1D	4.25	1.46	1.38
29	1n	603	CLA	O2A-CGA	4.25	1.45	1.33
30	00	305	CHL	C2C-C3C	4.25	1.45	1.36
29	1s	314	CLA	C3D-C4D	-4.25	1.34	1.44
30	1r	313	CHL	CHD-C1D	4.25	1.46	1.38
29	1b	617	CLA	C3C-C2C	4.25	1.45	1.36
29	1G	604	CLA	C3A-C2A	-4.25	1.50	1.54
29	1b	606	CLA	C3C-C2C	4.25	1.45	1.36
29	09	317	CLA	O2A-CGA	4.25	1.45	1.33
31	1n	615	LUT	C30-C29	4.25	1.41	1.35
31	1r	315	LUT	C34-C33	4.25	1.41	1.35
29	01	308	CLA	C3C-C2C	4.25	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1N	303	CLA	O2A-CGA	4.25	1.45	1.33
30	1S	308	CHL	CHD-C1D	4.25	1.46	1.38
29	05	310	CLA	CHC-C1C	4.25	1.47	1.38
29	1R	311	CLA	CHC-C1C	4.25	1.47	1.38
29	1n	604	CLA	CHC-C1C	4.25	1.47	1.38
30	09	304	CHL	CHD-C1D	4.25	1.46	1.38
29	1n	613	CLA	CHC-C1C	4.24	1.47	1.38
29	1B	601	CLA	O2A-CGA	4.24	1.45	1.33
29	1B	605	CLA	O2A-CGA	4.24	1.45	1.33
30	05	305	CHL	O2A-CGA	4.24	1.45	1.33
29	1s	313	CLA	C3A-C2A	-4.24	1.50	1.54
29	1R	302	CLA	C3C-C2C	4.24	1.45	1.36
30	00	306	CHL	O2A-CGA	4.24	1.45	1.33
30	09	305	CHL	CHC-C1C	4.24	1.47	1.38
31	09	313	LUT	C14-C13	4.24	1.41	1.35
29	1G	602	CLA	O2A-CGA	4.24	1.45	1.33
30	1r	305	CHL	CHD-C1D	4.24	1.46	1.38
29	1r	311	CLA	CHC-C1C	4.24	1.47	1.38
29	06	602	CLA	C3D-C4D	-4.24	1.34	1.44
30	03	311	CHL	CHD-C1D	4.24	1.46	1.38
35	1d	409	BCR	C10-C9	4.24	1.41	1.35
30	00	304	CHL	CHD-C1D	4.24	1.46	1.38
30	05	306	CHL	CHD-C1D	4.24	1.46	1.38
29	1b	610	CLA	O2A-CGA	4.24	1.45	1.33
30	00	305	CHL	CHD-C1D	4.24	1.46	1.38
29	1c	514	CLA	O2A-CGA	4.23	1.45	1.33
30	03	304	CHL	CHC-C1C	4.23	1.47	1.38
29	1N	304	CLA	C3C-C2C	4.23	1.45	1.36
29	1S	313	CLA	C3C-C2C	4.23	1.45	1.36
29	1C	506	CLA	O2A-CGA	4.23	1.45	1.33
29	1b	608	CLA	C3C-C2C	4.23	1.45	1.36
29	1N	314	CLA	O2A-CGA	4.23	1.45	1.33
29	1g	603	CLA	CHC-C1C	4.23	1.47	1.38
29	1B	616	CLA	O2A-CGA	4.23	1.45	1.33
30	01	306	CHL	O2A-CGA	4.23	1.45	1.33
30	1N	302	CHL	O2A-CGA	4.23	1.45	1.33
30	1S	304	CHL	CHD-C1D	4.23	1.46	1.38
30	1G	605	CHL	CHD-C1D	4.23	1.46	1.38
29	1b	614	CLA	C3D-C4D	-4.23	1.34	1.44
29	1b	616	CLA	O2A-CGA	4.23	1.45	1.33
30	02	605	CHL	CHD-C1D	4.23	1.46	1.38
29	1N	312	CLA	CHC-C1C	4.23	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	07	308	CLA	C3C-C2C	4.23	1.45	1.36
30	1R	304	CHL	CHD-C1D	4.23	1.46	1.38
29	1b	610	CLA	C3C-C2C	4.23	1.45	1.36
30	1s	304	CHL	CHD-C1D	4.23	1.46	1.38
30	01	303	CHL	CHC-C1C	4.23	1.47	1.38
29	03	301	CLA	O2A-CGA	4.23	1.45	1.33
33	1a	413	LHG	O8-C23	4.23	1.45	1.33
31	1r	315	LUT	C10-C9	4.23	1.41	1.35
29	00	303	CLA	CHC-C1C	4.23	1.47	1.38
30	04	302	CHL	CHC-C1C	4.23	1.47	1.38
34	1A	414	DGD	O1G-C1A	4.22	1.45	1.33
29	03	307	CLA	CHC-C1C	4.22	1.47	1.38
29	07	310	CLA	CHC-C1C	4.22	1.47	1.38
29	1b	611	CLA	O2A-CGA	4.22	1.45	1.33
29	03	308	CLA	CHC-C1C	4.22	1.47	1.38
30	01	304	CHL	O2A-CGA	4.22	1.45	1.33
29	1B	607	CLA	O2A-CGA	4.22	1.45	1.33
29	04	307	CLA	CHC-C1C	4.22	1.47	1.38
30	07	303	CHL	CHD-C1D	4.22	1.46	1.38
29	1B	611	CLA	O2A-CGA	4.22	1.45	1.33
29	1C	509	CLA	CHB-C1B	4.22	1.48	1.39
30	1G	606	CHL	C2C-C3C	4.22	1.45	1.36
29	1S	311	CLA	C3A-C2A	-4.22	1.50	1.54
30	1G	606	CHL	CHD-C1D	4.22	1.46	1.38
35	1h	101	BCR	C17-C18	4.22	1.41	1.35
30	02	606	CHL	CHD-C1D	4.22	1.46	1.38
29	1C	501	CLA	CHC-C1C	4.22	1.47	1.38
29	1G	603	CLA	C3C-C2C	4.22	1.45	1.36
30	04	303	CHL	CHD-C1D	4.22	1.46	1.38
34	00	320	DGD	O2G-C1B	4.22	1.46	1.34
30	1G	609	CHL	C2C-C3C	4.21	1.45	1.36
29	1g	604	CLA	O2A-CGA	4.21	1.45	1.33
29	1b	602	CLA	O2A-CGA	4.21	1.45	1.33
29	1C	504	CLA	O2A-CGA	4.21	1.45	1.33
31	1G	616	LUT	C34-C33	4.21	1.41	1.35
29	1C	509	CLA	O2A-CGA	4.21	1.45	1.33
35	1j	101	BCR	C17-C18	4.21	1.41	1.35
29	1c	506	CLA	CHC-C1C	4.21	1.47	1.38
30	1n	607	CHL	O2A-CGA	4.21	1.45	1.33
30	1N	308	CHL	CHD-C1D	4.21	1.46	1.38
34	1B	625	DGD	O1G-C1A	4.20	1.45	1.33
29	1b	614	CLA	C4B-NB	-4.20	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	510	CLA	CHC-C1C	4.20	1.47	1.38
30	02	605	CHL	CHC-C1C	4.20	1.47	1.38
29	1A	407	CLA	C3C-C2C	4.20	1.45	1.36
29	1R	309	CLA	C3D-C4D	-4.20	1.34	1.44
29	1b	613	CLA	O2A-CGA	4.20	1.45	1.33
30	1n	606	CHL	CHD-C1D	4.20	1.46	1.38
30	09	305	CHL	C2C-C3C	4.20	1.45	1.36
29	1g	613	CLA	C3D-C4D	-4.19	1.34	1.44
30	1n	608	CHL	CHD-C1D	4.19	1.46	1.38
29	1B	610	CLA	C3C-C2C	4.19	1.45	1.36
29	1c	513	CLA	CHC-C1C	4.19	1.47	1.38
29	09	312	CLA	CHC-C1C	4.19	1.47	1.38
30	1n	607	CHL	CHD-C1D	4.19	1.46	1.38
30	02	601	CHL	CHC-C1C	4.19	1.47	1.38
29	1b	606	CLA	O2A-CGA	4.19	1.45	1.33
29	07	307	CLA	CHC-C1C	4.19	1.47	1.38
29	1N	311	CLA	CHC-C1C	4.19	1.47	1.38
30	1S	308	CHL	C2C-C3C	4.19	1.45	1.36
30	04	301	CHL	CHD-C1D	4.19	1.46	1.38
29	1C	509	CLA	C3C-C2C	4.19	1.45	1.36
29	1S	306	CLA	CHC-C1C	4.19	1.47	1.38
29	08	306	CLA	CHC-C1C	4.19	1.47	1.38
29	1n	612	CLA	CHC-C1C	4.19	1.47	1.38
30	1G	601	CHL	CHC-C1C	4.19	1.47	1.38
29	1C	511	CLA	C3D-C4D	-4.19	1.34	1.44
29	1g	611	CLA	CHC-C1C	4.19	1.47	1.38
29	1r	312	CLA	CHC-C1C	4.19	1.47	1.38
29	1c	510	CLA	O2A-CGA	4.19	1.45	1.33
29	1G	610	CLA	C3C-C2C	4.19	1.45	1.36
29	1D	404	CLA	O2A-CGA	4.19	1.45	1.33
34	1C	517	DGD	O1G-C1A	4.19	1.45	1.33
29	1g	614	CLA	CHC-C1C	4.18	1.47	1.38
29	1b	615	CLA	O2A-CGA	4.18	1.45	1.33
29	1s	311	CLA	CHC-C1C	4.18	1.47	1.38
29	1c	514	CLA	CHC-C1C	4.18	1.47	1.38
34	1S	320	DGD	O1G-C1A	4.18	1.45	1.33
30	1n	601	CHL	O2A-CGA	4.18	1.45	1.33
30	08	302	CHL	CHD-C1D	4.18	1.46	1.38
30	1g	606	CHL	CHD-C1D	4.18	1.46	1.38
29	09	309	CLA	C3C-C2C	4.18	1.45	1.36
29	1B	603	CLA	O2A-CGA	4.18	1.45	1.33
34	1b	627	DGD	O1G-C1A	4.18	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	611	CLA	C3C-C2C	4.18	1.45	1.36
29	1a	406	CLA	O2A-CGA	4.18	1.45	1.33
30	1g	601	CHL	CHD-C1D	4.17	1.46	1.38
29	1b	612	CLA	O2A-CGA	4.17	1.45	1.33
29	1G	604	CLA	CHC-C1C	4.17	1.47	1.38
30	08	301	CHL	CHC-C1C	4.17	1.47	1.38
31	1s	317	LUT	C34-C33	4.17	1.41	1.35
29	1N	315	CLA	C3A-C2A	-4.17	1.50	1.54
35	1h	101	BCR	C21-C22	4.17	1.41	1.35
30	08	304	CHL	CHD-C1D	4.17	1.46	1.38
31	1n	615	LUT	C14-C13	4.17	1.41	1.35
29	1C	503	CLA	CHC-C1C	4.17	1.47	1.38
29	09	311	CLA	C3A-C2A	-4.17	1.50	1.54
29	1N	303	CLA	C3C-C2C	4.17	1.45	1.36
29	1D	402	CLA	O2A-CGA	4.17	1.45	1.33
29	1s	316	CLA	CHC-C1C	4.17	1.47	1.38
29	08	307	CLA	C3A-C2A	-4.16	1.50	1.54
29	1B	608	CLA	O2A-CGA	4.16	1.45	1.33
30	1N	307	CHL	CHD-C1D	4.16	1.46	1.38
29	1B	613	CLA	C3C-C2C	4.16	1.45	1.36
29	1G	602	CLA	C3C-C2C	4.16	1.45	1.36
34	1c	519	DGD	O2G-C1B	4.16	1.46	1.34
29	1B	606	CLA	O2A-CGA	4.16	1.45	1.33
29	1c	512	CLA	O2A-CGA	4.16	1.45	1.33
29	1b	614	CLA	O2A-CGA	4.16	1.45	1.33
29	1N	304	CLA	CHC-C1C	4.16	1.47	1.38
29	1s	313	CLA	CHC-C1C	4.16	1.47	1.38
34	00	320	DGD	O1G-C1A	4.16	1.45	1.33
29	1B	614	CLA	C3D-C4D	-4.16	1.34	1.44
29	1R	302	CLA	O2A-CGA	4.16	1.45	1.33
29	1C	505	CLA	O2A-CGA	4.16	1.45	1.33
30	1g	608	CHL	CHD-C1D	4.15	1.46	1.38
30	08	303	CHL	CHD-C1D	4.15	1.46	1.38
29	1n	603	CLA	CHC-C1C	4.15	1.47	1.38
30	1N	310	CHL	CHC-C1C	4.15	1.47	1.38
30	01	303	CHL	CHD-C1D	4.15	1.46	1.38
29	1c	508	CLA	O2A-CGA	4.15	1.45	1.33
29	1d	407	CLA	CHC-C1C	4.15	1.47	1.38
29	1g	604	CLA	CHC-C1C	4.15	1.47	1.38
34	1c	520	DGD	O1G-C1A	4.15	1.45	1.33
30	1g	609	CHL	CHC-C1C	4.15	1.46	1.38
29	1b	614	CLA	C3C-C2C	4.15	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1D	401	CLA	CHC-C1C	4.15	1.46	1.38
29	1r	308	CLA	CHC-C1C	4.15	1.46	1.38
29	1d	403	CLA	O2A-CGA	4.14	1.45	1.33
30	04	301	CHL	CHC-C1C	4.14	1.46	1.38
29	1n	614	CLA	C3A-C2A	-4.14	1.50	1.54
30	1G	601	CHL	CHD-C1D	4.14	1.46	1.38
29	00	302	CLA	CHC-C1C	4.14	1.46	1.38
30	01	304	CHL	CHD-C1D	4.14	1.46	1.38
30	00	308	CHL	CHD-C1D	4.14	1.46	1.38
35	1j	101	BCR	C14-C13	4.14	1.41	1.35
29	1B	613	CLA	CHC-C1C	4.14	1.46	1.38
30	1g	606	CHL	CHC-C1C	4.14	1.46	1.38
29	09	301	CLA	C3C-C2C	4.14	1.45	1.36
29	1c	505	CLA	O2A-CGA	4.14	1.45	1.33
29	06	611	CLA	C3A-C2A	-4.13	1.50	1.54
29	1a	408	CLA	C3C-C2C	4.13	1.45	1.36
29	04	308	CLA	C3A-C2A	-4.13	1.50	1.54
29	1S	311	CLA	CHC-C1C	4.13	1.46	1.38
31	05	314	LUT	C14-C13	4.13	1.41	1.35
29	1c	514	CLA	C3C-C2C	4.13	1.45	1.36
34	1C	516	DGD	O1G-C1A	4.13	1.45	1.33
29	1B	606	CLA	CHC-C1C	4.13	1.46	1.38
29	09	302	CLA	C3C-C2C	4.13	1.45	1.36
29	09	311	CLA	CHC-C1C	4.12	1.46	1.38
29	08	309	CLA	C3A-C2A	-4.12	1.50	1.54
30	00	308	CHL	CHC-C1C	4.12	1.46	1.38
29	1D	402	CLA	CHC-C1C	4.12	1.46	1.38
30	1r	305	CHL	CHC-C1C	4.12	1.46	1.38
34	1c	520	DGD	O2G-C1B	4.12	1.45	1.34
29	1B	608	CLA	CHC-C1C	4.12	1.46	1.38
29	03	306	CLA	C3C-C2C	4.12	1.45	1.36
29	1b	602	CLA	CHC-C1C	4.12	1.46	1.38
29	00	301	CLA	O2A-CGA	4.12	1.45	1.33
30	1N	307	CHL	CHC-C1C	4.12	1.46	1.38
29	1b	607	CLA	O2A-CGA	4.12	1.45	1.33
29	1C	502	CLA	O2A-CGA	4.12	1.45	1.33
30	1G	601	CHL	O2A-CGA	4.12	1.45	1.33
29	1b	613	CLA	CHB-C1B	4.12	1.48	1.39
29	08	310	CLA	C3A-C2A	-4.12	1.50	1.54
30	1s	308	CHL	CHD-C1D	4.12	1.46	1.38
30	1n	606	CHL	CHC-C1C	4.12	1.46	1.38
31	09	314	LUT	C34-C33	4.11	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	00	306	CHL	CHD-C1D	4.11	1.46	1.38
29	1B	616	CLA	CHC-C1C	4.11	1.46	1.38
35	1d	409	BCR	C17-C18	4.11	1.41	1.35
29	1n	610	CLA	C3D-C4D	-4.11	1.34	1.44
31	1s	317	LUT	C14-C13	4.11	1.41	1.35
29	1B	613	CLA	O2A-CGA	4.11	1.45	1.33
29	1C	503	CLA	O2A-CGA	4.11	1.45	1.33
29	1c	504	CLA	O2A-CGA	4.11	1.45	1.33
29	1c	511	CLA	CHC-C1C	4.11	1.46	1.38
35	1d	409	BCR	C21-C22	4.11	1.41	1.35
30	09	304	CHL	CHC-C1C	4.10	1.46	1.38
30	05	307	CHL	CHD-C1D	4.10	1.46	1.38
30	07	303	CHL	C3A-C2A	-4.10	1.50	1.54
30	03	305	CHL	CHD-C1D	4.10	1.46	1.38
29	1b	617	CLA	CHC-C1C	4.10	1.46	1.38
31	05	314	LUT	C30-C29	4.10	1.41	1.35
29	1g	613	CLA	C3C-C2C	4.10	1.45	1.36
35	1J	101	BCR	C14-C13	4.09	1.41	1.35
30	1G	608	CHL	CHD-C1D	4.09	1.46	1.38
29	1s	305	CLA	C3C-C2C	4.09	1.45	1.36
29	1C	507	CLA	O2A-CGA	4.09	1.45	1.33
30	1s	309	CHL	CHD-C1D	4.09	1.46	1.38
35	1H	101	BCR	C21-C22	4.09	1.41	1.35
29	1B	613	CLA	CHB-C1B	4.09	1.48	1.39
30	09	307	CHL	CHD-C1D	4.09	1.46	1.38
29	01	309	CLA	O2A-CGA	4.09	1.46	1.33
31	01	314	LUT	C10-C9	4.09	1.41	1.35
29	07	302	CLA	C4B-NB	-4.09	1.32	1.37
31	01	315	LUT	C14-C13	4.09	1.41	1.35
29	1b	609	CLA	O2A-CGA	4.08	1.45	1.33
29	06	602	CLA	CHB-C1B	4.08	1.48	1.39
30	1g	601	CHL	O2A-CGA	4.08	1.45	1.33
29	1b	616	CLA	C3C-C2C	4.08	1.45	1.36
29	1D	401	CLA	O2A-CGA	4.08	1.45	1.33
29	1G	611	CLA	CHC-C1C	4.08	1.46	1.38
29	1R	314	CLA	O2A-CGA	4.08	1.46	1.33
29	1c	504	CLA	C3C-C2C	4.08	1.45	1.36
29	00	318	CLA	C3C-C2C	4.08	1.45	1.36
29	06	608	CLA	C3A-C2A	-4.07	1.50	1.54
29	1B	601	CLA	CHC-C1C	4.07	1.46	1.38
30	05	305	CHL	CHD-C1D	4.07	1.46	1.38
29	1r	314	CLA	O2A-CGA	4.07	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	07	308	CLA	C3A-C2A	-4.07	1.50	1.54
31	01	314	LUT	C14-C13	4.07	1.41	1.35
31	1G	616	LUT	C10-C9	4.07	1.41	1.35
45	1f	101	HEM	FE-NC	4.07	2.08	1.95
29	1c	512	CLA	CHB-C1B	4.07	1.48	1.39
30	1N	307	CHL	C2C-C3C	4.06	1.45	1.36
34	1B	626	DGD	O2G-C1B	4.06	1.45	1.34
34	1B	627	DGD	O2G-C1B	4.06	1.45	1.34
30	1G	606	CHL	CHC-C1C	4.06	1.46	1.38
29	1b	611	CLA	CHC-C1C	4.06	1.46	1.38
30	1R	303	CHL	CHC-C1C	4.06	1.46	1.38
30	1N	309	CHL	CHD-C1D	4.06	1.46	1.38
29	04	312	CLA	C3A-C2A	-4.06	1.50	1.54
29	1B	609	CLA	C3C-C2C	4.06	1.45	1.36
34	1C	518	DGD	O2G-C1B	4.05	1.45	1.34
29	1b	603	CLA	C3C-C2C	4.05	1.45	1.36
29	02	613	CLA	O2A-CGA	4.05	1.45	1.33
29	1g	603	CLA	C3C-C2C	4.05	1.45	1.36
30	09	305	CHL	CHD-C1D	4.05	1.46	1.38
29	1B	614	CLA	C4B-NB	-4.05	1.32	1.37
29	1c	507	CLA	O2A-CGA	4.05	1.45	1.33
29	1G	612	CLA	CHC-C1C	4.05	1.46	1.38
29	1C	511	CLA	C3C-C2C	4.05	1.45	1.36
31	1r	315	LUT	C14-C13	4.05	1.41	1.35
30	1g	607	CHL	O2A-CGA	4.05	1.45	1.33
29	1C	508	CLA	C3C-C2C	4.04	1.45	1.36
29	01	313	CLA	O2A-CGA	4.04	1.45	1.33
29	1A	404	CLA	O2A-CGA	4.04	1.45	1.33
29	1s	306	CLA	O2A-CGA	4.04	1.45	1.33
29	1b	609	CLA	CHC-C1C	4.04	1.46	1.38
30	02	604	CHL	CHD-C4C	4.04	1.48	1.39
29	01	311	CLA	O2A-CGA	4.04	1.45	1.33
30	00	305	CHL	O2A-CGA	4.04	1.45	1.33
29	1n	602	CLA	C3C-C2C	4.04	1.45	1.36
29	1s	316	CLA	O2A-CGA	4.04	1.45	1.33
29	1g	612	CLA	CHC-C1C	4.04	1.46	1.38
30	1N	308	CHL	O2A-CGA	4.04	1.45	1.33
29	1C	513	CLA	C3A-C2A	-4.03	1.50	1.54
29	00	301	CLA	C3C-C2C	4.03	1.45	1.36
29	1B	610	CLA	O2A-CGA	4.03	1.45	1.33
29	1s	315	CLA	CHC-C1C	4.03	1.46	1.38
30	1n	606	CHL	O2A-CGA	4.03	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1S	316	CLA	O2A-CGA	4.03	1.45	1.33
30	09	306	CHL	CHD-C1D	4.03	1.46	1.38
29	1A	404	CLA	C3C-C2C	4.02	1.45	1.36
29	01	312	CLA	O2A-CGA	4.02	1.45	1.33
29	05	302	CLA	CHB-C1B	4.02	1.48	1.39
29	09	303	CLA	CHC-C1C	4.02	1.46	1.38
34	1C	517	DGD	O2G-C1B	4.02	1.45	1.34
29	1s	306	CLA	CHB-C1B	4.02	1.48	1.39
29	1D	404	CLA	CHC-C1C	4.02	1.46	1.38
31	03	313	LUT	C34-C33	4.02	1.41	1.35
30	05	304	CHL	C2C-C3C	4.01	1.45	1.36
34	1C	518	DGD	O1G-C1A	4.01	1.45	1.33
30	1r	313	CHL	O2A-CGA	4.01	1.45	1.33
29	1N	311	CLA	C3C-C2C	4.01	1.45	1.36
29	1R	309	CLA	C3C-C2C	4.01	1.45	1.36
29	1S	313	CLA	CHC-C1C	4.01	1.46	1.38
29	1C	505	CLA	CHC-C1C	4.01	1.46	1.38
29	1g	603	CLA	O2A-CGA	4.01	1.45	1.33
34	1c	518	DGD	O2G-C1B	4.01	1.45	1.34
29	1R	312	CLA	O2A-CGA	4.00	1.45	1.33
31	1G	616	LUT	C14-C13	4.00	1.41	1.35
29	1R	307	CLA	C3C-C2C	4.00	1.45	1.36
29	1C	502	CLA	C3C-C2C	4.00	1.45	1.36
31	03	313	LUT	C14-C13	4.00	1.41	1.35
30	1N	302	CHL	CHD-C4C	4.00	1.48	1.39
29	1B	603	CLA	CHC-C1C	3.99	1.46	1.38
31	1S	318	LUT	C10-C9	3.99	1.41	1.35
29	1r	304	CLA	O2A-CGA	3.99	1.45	1.33
30	1n	609	CHL	CHD-C1D	3.99	1.46	1.38
30	01	302	CHL	CHD-C4C	3.99	1.48	1.39
30	1G	609	CHL	CHD-C4C	3.98	1.48	1.39
30	03	303	CHL	CHD-C4C	3.98	1.48	1.39
29	1B	602	CLA	CHC-C1C	3.98	1.46	1.38
30	1g	601	CHL	CHD-C4C	3.98	1.48	1.39
29	1C	511	CLA	O2A-CGA	3.98	1.45	1.33
30	05	304	CHL	CHD-C4C	3.98	1.48	1.39
35	1h	101	BCR	C10-C9	3.98	1.41	1.35
30	1n	606	CHL	C2C-C3C	3.98	1.45	1.36
30	1S	304	CHL	CHD-C4C	3.98	1.48	1.39
35	1H	101	BCR	C14-C13	3.98	1.41	1.35
30	02	603	CHL	CHD-C4C	3.97	1.48	1.39
34	1C	516	DGD	O2G-C1B	3.97	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	06	603	CHL	CHD-C4C	3.97	1.48	1.39
34	1B	625	DGD	O2G-C1B	3.97	1.45	1.34
30	03	311	CHL	CHD-C4C	3.97	1.48	1.39
30	1R	313	CHL	CHD-C4C	3.97	1.48	1.39
29	1g	602	CLA	C3C-C2C	3.97	1.45	1.36
31	1s	317	LUT	C10-C9	3.97	1.41	1.35
34	1c	519	DGD	O1G-C1A	3.97	1.44	1.33
29	1B	604	CLA	O2A-CGA	3.96	1.44	1.33
30	1R	303	CHL	CHD-C4C	3.96	1.48	1.39
30	03	302	CHL	CHD-C4C	3.96	1.48	1.39
30	07	311	CHL	CHC-C1C	3.96	1.46	1.38
31	00	313	LUT	C34-C33	3.96	1.41	1.35
30	04	305	CHL	CHD-C4C	3.96	1.48	1.39
29	1c	505	CLA	CHC-C1C	3.96	1.46	1.38
29	1S	312	CLA	C3A-C2A	-3.96	1.50	1.54
30	03	303	CHL	CHC-C1C	3.96	1.46	1.38
30	1r	306	CHL	CHD-C1D	3.96	1.46	1.38
29	02	612	CLA	CHC-C1C	3.96	1.46	1.38
29	1b	604	CLA	CHC-C1C	3.96	1.46	1.38
29	1N	314	CLA	OBD-CAD	3.96	1.29	1.22
30	06	605	CHL	CHD-C4C	3.96	1.48	1.39
30	06	601	CHL	CHD-C4C	3.95	1.48	1.39
29	05	311	CLA	CHB-C1B	3.95	1.48	1.39
30	1R	305	CHL	CHD-C4C	3.95	1.48	1.39
29	1D	404	CLA	C3C-C2C	3.95	1.45	1.36
34	1A	414	DGD	O2G-C1B	3.95	1.45	1.34
29	00	312	CLA	CHC-C1C	3.95	1.46	1.38
30	08	301	CHL	CHD-C4C	3.95	1.48	1.39
29	00	311	CLA	CHB-C1B	3.95	1.48	1.39
34	1b	627	DGD	O2G-C1B	3.94	1.45	1.34
31	00	313	LUT	C10-C9	3.94	1.41	1.35
35	1D	406	BCR	C21-C22	3.94	1.41	1.35
30	1s	309	CHL	CHD-C4C	3.94	1.48	1.39
29	1b	603	CLA	O2A-CGA	3.94	1.44	1.33
30	1G	607	CHL	CHD-C4C	3.94	1.48	1.39
31	00	314	LUT	C34-C33	3.93	1.41	1.35
45	1E	103	HEM	FE-NC	3.93	2.08	1.95
30	05	313	CHL	CHD-C4C	3.93	1.48	1.39
31	01	314	LUT	C34-C33	3.93	1.41	1.35
29	1S	305	CLA	C3C-C2C	3.93	1.45	1.36
30	1n	601	CHL	CHD-C4C	3.93	1.48	1.39
33	1a	413	LHG	O7-C7	3.93	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1G	601	CHL	CHD-C4C	3.93	1.48	1.39
31	1S	317	LUT	C34-C33	3.93	1.41	1.35
30	05	315	CHL	CHD-C4C	3.92	1.48	1.39
29	1b	605	CLA	CHC-C1C	3.92	1.46	1.38
29	05	311	CLA	OBD-CAD	3.92	1.29	1.22
31	1S	317	LUT	C14-C13	3.92	1.41	1.35
29	1B	609	CLA	CHC-C1C	3.92	1.46	1.38
31	1S	318	LUT	C34-C33	3.92	1.41	1.35
30	01	306	CHL	CHD-C4C	3.92	1.48	1.39
31	1R	315	LUT	C10-C9	3.92	1.41	1.35
30	07	304	CHL	CHD-C4C	3.92	1.48	1.39
30	07	306	CHL	CHD-C4C	3.92	1.48	1.39
30	1s	310	CHL	CHD-C4C	3.92	1.48	1.39
30	1S	307	CHL	CHD-C4C	3.91	1.48	1.39
30	04	302	CHL	CHD-C4C	3.91	1.48	1.39
29	1b	610	CLA	CHB-C1B	3.91	1.48	1.39
30	05	306	CHL	CHD-C4C	3.91	1.48	1.39
30	1g	609	CHL	CHD-C4C	3.91	1.48	1.39
30	02	606	CHL	CHD-C4C	3.91	1.48	1.39
30	02	607	CHL	CHD-C4C	3.90	1.48	1.39
35	1D	406	BCR	C10-C9	3.90	1.41	1.35
30	1r	305	CHL	CHD-C4C	3.90	1.48	1.39
30	04	304	CHL	CHD-C4C	3.90	1.48	1.39
29	1b	612	CLA	CHC-C1C	3.90	1.46	1.38
30	07	303	CHL	CHD-C4C	3.90	1.48	1.39
29	1G	610	CLA	CHB-C1B	3.90	1.48	1.39
29	1b	612	CLA	C3C-C2C	3.90	1.45	1.36
35	1H	101	BCR	C17-C18	3.90	1.41	1.35
30	09	308	CHL	CHD-C4C	3.90	1.48	1.39
30	04	303	CHL	CHC-C1C	3.90	1.46	1.38
29	07	302	CLA	C3D-C4D	-3.90	1.35	1.44
31	1r	315	LUT	C30-C29	3.90	1.40	1.35
30	08	305	CHL	CHD-C4C	3.90	1.48	1.39
30	1r	313	CHL	CHD-C4C	3.89	1.48	1.39
29	1C	507	CLA	CHC-C1C	3.89	1.46	1.38
30	02	601	CHL	CHD-C4C	3.89	1.48	1.39
30	08	302	CHL	CHD-C4C	3.89	1.48	1.39
34	1S	320	DGD	O2G-C1B	3.89	1.45	1.34
29	1D	401	CLA	CHB-C1B	3.88	1.48	1.39
30	06	604	CHL	CHD-C4C	3.88	1.48	1.39
29	1g	613	CLA	CHB-C1B	3.88	1.48	1.39
35	1d	409	BCR	C14-C13	3.88	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1n	605	CHL	CHD-C4C	3.87	1.48	1.39
30	01	305	CHL	CHD-C1D	3.87	1.45	1.38
29	1n	610	CLA	CHD-C4C	3.87	1.48	1.39
30	07	305	CHL	CHD-C4C	3.87	1.48	1.39
30	1r	307	CHL	CHD-C4C	3.87	1.48	1.39
30	1G	605	CHL	CHD-C4C	3.87	1.48	1.39
29	1g	611	CLA	CHB-C1B	3.86	1.48	1.39
29	1n	610	CLA	CHD-C1D	3.86	1.45	1.38
31	1s	318	LUT	C30-C29	3.86	1.40	1.35
29	1B	607	CLA	CHB-C1B	3.86	1.48	1.39
30	1S	309	CHL	CHD-C4C	3.86	1.48	1.39
29	1a	405	CLA	C3C-C2C	3.86	1.44	1.36
29	1B	605	CLA	CHC-C1C	3.86	1.46	1.38
30	09	304	CHL	CHD-C4C	3.86	1.48	1.39
30	1N	310	CHL	CHD-C4C	3.86	1.48	1.39
29	07	307	CLA	C3A-C2A	-3.86	1.50	1.54
30	06	606	CHL	CHD-C4C	3.85	1.48	1.39
29	1c	508	CLA	CHC-C1C	3.85	1.46	1.38
29	05	312	CLA	CHD-C1D	3.85	1.45	1.38
31	1R	315	LUT	C14-C13	3.85	1.40	1.35
30	00	307	CHL	CHD-C4C	3.85	1.48	1.39
29	02	612	CLA	CHB-C1B	3.84	1.48	1.39
31	00	313	LUT	C14-C13	3.84	1.40	1.35
31	00	314	LUT	C14-C13	3.84	1.40	1.35
35	1D	406	BCR	C14-C13	3.84	1.40	1.35
29	1c	504	CLA	CHC-C1C	3.83	1.46	1.38
29	1n	610	CLA	OBD-CAD	3.83	1.29	1.22
30	1N	306	CHL	CHD-C4C	3.83	1.48	1.39
29	05	309	CLA	C3A-C2A	-3.83	1.50	1.54
29	08	306	CLA	CHB-C1B	3.83	1.48	1.39
29	01	308	CLA	OBD-CAD	3.82	1.29	1.22
30	03	305	CHL	CHD-C4C	3.82	1.48	1.39
30	1S	308	CHL	CHD-C4C	3.82	1.48	1.39
29	1C	508	CLA	CHC-C1C	3.82	1.46	1.38
29	04	307	CLA	CHB-C1B	3.82	1.48	1.39
30	00	304	CHL	OBD-CAD	3.82	1.29	1.22
30	00	304	CHL	CHD-C4C	3.82	1.47	1.39
29	02	608	CLA	CHB-C1B	3.81	1.48	1.39
35	1J	101	BCR	C10-C9	3.81	1.40	1.35
29	07	312	CLA	CHB-C1B	3.81	1.48	1.39
30	1n	608	CHL	CHD-C4C	3.81	1.47	1.39
29	1b	606	CLA	CHC-C1C	3.81	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1g	606	CHL	CHD-C4C	3.81	1.47	1.39
31	09	314	LUT	C14-C13	3.81	1.40	1.35
29	07	302	CLA	C3C-C2C	3.81	1.44	1.36
31	01	314	LUT	C30-C29	3.81	1.40	1.35
31	07	313	LUT	C14-C13	3.81	1.40	1.35
35	1b	601	BCR	C10-C9	3.81	1.40	1.35
30	1g	605	CHL	CHD-C4C	3.81	1.47	1.39
29	01	301	CLA	OBD-CAD	3.81	1.29	1.22
29	1S	316	CLA	OBD-CAD	3.81	1.29	1.22
31	1g	616	LUT	C30-C29	3.80	1.40	1.35
30	03	304	CHL	CHD-C4C	3.80	1.47	1.39
30	1R	304	CHL	CHD-C4C	3.80	1.47	1.39
29	1s	306	CLA	OBD-CAD	3.80	1.29	1.22
30	07	311	CHL	CHD-C4C	3.80	1.47	1.39
29	05	311	CLA	C3A-C2A	-3.80	1.51	1.54
35	1D	406	BCR	C17-C18	3.80	1.40	1.35
30	04	303	CHL	CHD-C4C	3.80	1.47	1.39
35	1j	101	BCR	C10-C9	3.80	1.40	1.35
29	09	302	CLA	CHB-C1B	3.80	1.47	1.39
29	04	310	CLA	OBD-CAD	3.79	1.29	1.22
30	03	304	CHL	OBD-CAD	3.79	1.29	1.22
30	00	305	CHL	CHC-C1C	3.79	1.46	1.38
29	07	309	CLA	OBD-CAD	3.79	1.29	1.22
29	1b	608	CLA	CHC-C1C	3.79	1.46	1.38
29	09	311	CLA	CHB-C1B	3.79	1.47	1.39
29	03	312	CLA	CHB-C1B	3.79	1.47	1.39
29	1c	510	CLA	CHC-C1C	3.79	1.46	1.38
30	1n	607	CHL	CHD-C4C	3.79	1.47	1.39
30	02	604	CHL	OBD-CAD	3.79	1.29	1.22
29	04	308	CLA	CHB-C1B	3.79	1.47	1.39
30	05	307	CHL	CHD-C4C	3.79	1.47	1.39
29	1G	604	CLA	OBD-CAD	3.79	1.29	1.22
29	1C	502	CLA	CHC-C1C	3.79	1.46	1.38
29	00	310	CLA	CHB-C1B	3.79	1.47	1.39
31	1R	315	LUT	C30-C29	3.78	1.40	1.35
29	1c	513	CLA	CHB-C1B	3.78	1.47	1.39
29	03	301	CLA	CHB-C1B	3.78	1.47	1.39
31	03	313	LUT	C10-C9	3.78	1.40	1.35
29	01	312	CLA	OBD-CAD	3.78	1.29	1.22
30	1s	304	CHL	CHD-C4C	3.78	1.47	1.39
30	1g	608	CHL	CHD-C4C	3.78	1.47	1.39
29	1s	314	CLA	CHB-C1B	3.78	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	05	307	CHL	CHC-C4B	3.78	1.47	1.39
31	09	314	LUT	C10-C9	3.78	1.40	1.35
30	08	304	CHL	CHD-C4C	3.78	1.47	1.39
29	1B	616	CLA	CHB-C1B	3.78	1.47	1.39
30	01	302	CHL	OBD-CAD	3.77	1.29	1.22
29	1G	603	CLA	OBD-CAD	3.77	1.29	1.22
29	01	311	CLA	CHB-C1B	3.77	1.47	1.39
30	01	303	CHL	CHD-C4C	3.77	1.47	1.39
30	05	306	CHL	OBD-CAD	3.77	1.29	1.22
30	1g	606	CHL	OBD-CAD	3.77	1.29	1.22
30	05	313	CHL	OBD-CAD	3.77	1.29	1.22
29	1s	314	CLA	OBD-CAD	3.77	1.29	1.22
29	01	310	CLA	OBD-CAD	3.77	1.29	1.22
29	1C	511	CLA	CHB-C1B	3.77	1.47	1.39
35	1J	101	BCR	C21-C22	3.77	1.40	1.35
29	02	614	CLA	OBD-CAD	3.77	1.29	1.22
30	04	301	CHL	CHD-C4C	3.77	1.47	1.39
29	1C	513	CLA	CHB-C1B	3.77	1.47	1.39
31	1g	615	LUT	C10-C9	3.77	1.40	1.35
30	06	603	CHL	OBD-CAD	3.77	1.29	1.22
30	00	308	CHL	CHD-C4C	3.77	1.47	1.39
29	08	309	CLA	OBD-CAD	3.77	1.29	1.22
29	04	311	CLA	OBD-CAD	3.77	1.29	1.22
35	1H	101	BCR	C10-C9	3.77	1.40	1.35
30	09	304	CHL	OBD-CAD	3.76	1.29	1.22
30	04	301	CHL	OBD-CAD	3.76	1.29	1.22
30	04	302	CHL	OBD-CAD	3.76	1.29	1.22
30	03	302	CHL	OBD-CAD	3.76	1.29	1.22
29	1S	315	CLA	CHC-C4B	3.76	1.47	1.39
29	08	312	CLA	OBD-CAD	3.76	1.29	1.22
29	1R	306	CLA	OBD-CAD	3.76	1.29	1.22
29	06	610	CLA	CHB-C1B	3.76	1.47	1.39
29	04	307	CLA	OBD-CAD	3.76	1.29	1.22
30	1s	309	CHL	OBD-CAD	3.76	1.29	1.22
29	1N	313	CLA	OBD-CAD	3.76	1.29	1.22
29	04	312	CLA	CHB-C1B	3.76	1.47	1.39
29	05	310	CLA	OBD-CAD	3.76	1.29	1.22
30	07	303	CHL	OBD-CAD	3.75	1.28	1.22
30	1S	308	CHL	OBD-CAD	3.75	1.28	1.22
30	00	305	CHL	CHD-C4C	3.75	1.47	1.39
30	09	307	CHL	CHD-C4C	3.75	1.47	1.39
30	00	306	CHL	OBD-CAD	3.75	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	1k	102	BCR	C17-C18	3.75	1.40	1.35
29	00	318	CLA	CHB-C1B	3.75	1.47	1.39
29	1C	502	CLA	CHB-C1B	3.75	1.47	1.39
29	07	308	CLA	CHB-C1B	3.75	1.47	1.39
30	02	603	CHL	OBD-CAD	3.75	1.28	1.22
29	09	301	CLA	CHC-C4B	3.75	1.47	1.39
30	1N	306	CHL	OBD-CAD	3.75	1.28	1.22
29	1S	312	CLA	CHB-C1B	3.75	1.47	1.39
30	1g	607	CHL	CHD-C4C	3.75	1.47	1.39
29	1b	610	CLA	CHC-C1C	3.75	1.46	1.38
29	02	610	CLA	CHB-C1B	3.75	1.47	1.39
29	02	602	CLA	OBD-CAD	3.75	1.28	1.22
30	1s	304	CHL	OBD-CAD	3.75	1.28	1.22
29	1b	605	CLA	CHB-C1B	3.75	1.47	1.39
29	1b	611	CLA	CHB-C1B	3.75	1.47	1.39
30	1N	309	CHL	CHC-C4B	3.75	1.47	1.39
29	1G	612	CLA	OBD-CAD	3.74	1.28	1.22
30	1G	605	CHL	OBD-CAD	3.74	1.28	1.22
29	1n	612	CLA	CHB-C1B	3.74	1.47	1.39
29	04	314	CLA	OBD-CAD	3.74	1.28	1.22
29	06	608	CLA	OBD-CAD	3.74	1.28	1.22
29	06	609	CLA	OBD-CAD	3.74	1.28	1.22
29	1c	508	CLA	OBD-CAD	3.74	1.28	1.22
29	1d	403	CLA	OBD-CAD	3.74	1.28	1.22
30	1g	605	CHL	OBD-CAD	3.74	1.28	1.22
29	1N	303	CLA	CHB-C1B	3.74	1.47	1.39
29	09	317	CLA	CHB-C1B	3.74	1.47	1.39
31	1s	317	LUT	C30-C29	3.74	1.40	1.35
30	08	303	CHL	CHD-C4C	3.74	1.47	1.39
29	01	310	CLA	CHB-C1B	3.74	1.47	1.39
29	1R	314	CLA	OBD-CAD	3.74	1.28	1.22
29	01	313	CLA	OBD-CAD	3.74	1.28	1.22
30	07	304	CHL	OBD-CAD	3.74	1.28	1.22
29	1C	509	CLA	OBD-CAD	3.74	1.28	1.22
29	05	310	CLA	CHB-C1B	3.74	1.47	1.39
29	1B	615	CLA	CHB-C1B	3.74	1.47	1.39
30	1N	302	CHL	CHC-C4B	3.74	1.47	1.39
29	03	306	CLA	CHB-C1B	3.74	1.47	1.39
29	09	310	CLA	OBD-CAD	3.74	1.28	1.22
29	1c	504	CLA	CHB-C1B	3.73	1.47	1.39
29	1R	311	CLA	CHB-C1B	3.73	1.47	1.39
30	1N	308	CHL	CHD-C4C	3.73	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	04	306	CLA	OBD-CAD	3.73	1.28	1.22
30	01	303	CHL	OBD-CAD	3.73	1.28	1.22
29	06	611	CLA	OBD-CAD	3.73	1.28	1.22
30	05	304	CHL	OBD-CAD	3.73	1.28	1.22
29	04	308	CLA	OBD-CAD	3.73	1.28	1.22
30	02	605	CHL	CHD-C4C	3.73	1.47	1.39
29	1B	609	CLA	OBD-CAD	3.73	1.28	1.22
29	02	602	CLA	CHB-C1B	3.73	1.47	1.39
30	05	305	CHL	CHD-C4C	3.73	1.47	1.39
30	06	605	CHL	OBD-CAD	3.73	1.28	1.22
31	01	315	LUT	C34-C33	3.73	1.40	1.35
30	05	315	CHL	OBD-CAD	3.73	1.28	1.22
30	07	305	CHL	OBD-CAD	3.73	1.28	1.22
29	08	311	CLA	CHB-C1B	3.73	1.47	1.39
30	1S	309	CHL	OBD-CAD	3.73	1.28	1.22
29	1d	403	CLA	CHB-C1B	3.73	1.47	1.39
30	1G	608	CHL	CHD-C4C	3.73	1.47	1.39
29	06	610	CLA	OBD-CAD	3.73	1.28	1.22
29	1b	609	CLA	OBD-CAD	3.72	1.28	1.22
30	01	306	CHL	OBD-CAD	3.72	1.28	1.22
29	1S	313	CLA	OBD-CAD	3.72	1.28	1.22
30	06	604	CHL	OBD-CAD	3.72	1.28	1.22
29	07	308	CLA	OBD-CAD	3.72	1.28	1.22
29	1b	602	CLA	OBD-CAD	3.72	1.28	1.22
29	03	309	CLA	OBD-CAD	3.72	1.28	1.22
29	1s	311	CLA	OBD-CAD	3.72	1.28	1.22
29	07	312	CLA	OBD-CAD	3.72	1.28	1.22
29	1r	312	CLA	OBD-CAD	3.72	1.28	1.22
29	1S	313	CLA	CHB-C1B	3.72	1.47	1.39
31	07	313	LUT	C34-C33	3.72	1.40	1.35
29	1D	402	CLA	CHB-C1B	3.72	1.47	1.39
31	1G	615	LUT	C30-C29	3.72	1.40	1.35
29	02	613	CLA	OBD-CAD	3.72	1.28	1.22
29	08	310	CLA	OBD-CAD	3.72	1.28	1.22
29	09	312	CLA	OBD-CAD	3.72	1.28	1.22
29	02	611	CLA	OBD-CAD	3.71	1.28	1.22
29	1R	310	CLA	OBD-CAD	3.71	1.28	1.22
30	1G	606	CHL	CHD-C4C	3.71	1.47	1.39
29	05	308	CLA	OBD-CAD	3.71	1.28	1.22
29	1B	615	CLA	OBD-CAD	3.71	1.28	1.22
29	1g	613	CLA	OBD-CAD	3.71	1.28	1.22
30	1n	608	CHL	OBD-CAD	3.71	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	507	CLA	OBD-CAD	3.71	1.28	1.22
29	03	307	CLA	CHB-C1B	3.71	1.47	1.39
29	02	612	CLA	OBD-CAD	3.71	1.28	1.22
31	1g	616	LUT	C10-C9	3.71	1.40	1.35
29	02	610	CLA	OBD-CAD	3.71	1.28	1.22
29	1s	305	CLA	CHB-C1B	3.71	1.47	1.39
29	1r	314	CLA	OBD-CAD	3.71	1.28	1.22
30	01	304	CHL	OBD-CAD	3.71	1.28	1.22
30	1n	606	CHL	CHD-C4C	3.71	1.47	1.39
29	1r	311	CLA	OBD-CAD	3.71	1.28	1.22
30	03	303	CHL	OBD-CAD	3.70	1.28	1.22
29	04	311	CLA	CHB-C1B	3.70	1.47	1.39
29	08	308	CLA	OBD-CAD	3.70	1.28	1.22
30	06	601	CHL	OBD-CAD	3.70	1.28	1.22
29	1b	616	CLA	CHB-C1B	3.70	1.47	1.39
30	1s	308	CHL	CHD-C4C	3.70	1.47	1.39
30	1S	307	CHL	OBD-CAD	3.70	1.28	1.22
29	1d	406	CLA	OBD-CAD	3.70	1.28	1.22
30	01	304	CHL	CHD-C4C	3.70	1.47	1.39
30	09	308	CHL	CHC-C1C	3.70	1.46	1.38
29	06	607	CLA	OBD-CAD	3.70	1.28	1.22
30	1N	307	CHL	CHD-C4C	3.70	1.47	1.39
30	1n	609	CHL	CHD-C4C	3.70	1.47	1.39
29	1s	312	CLA	OBD-CAD	3.70	1.28	1.22
30	02	607	CHL	OBD-CAD	3.70	1.28	1.22
30	02	606	CHL	OBD-CAD	3.70	1.28	1.22
29	06	611	CLA	CHB-C1B	3.70	1.47	1.39
29	1g	611	CLA	OBD-CAD	3.70	1.28	1.22
29	1r	311	CLA	CHB-C1B	3.70	1.47	1.39
30	1n	606	CHL	OBD-CAD	3.69	1.28	1.22
29	1D	402	CLA	OBD-CAD	3.69	1.28	1.22
29	1N	312	CLA	OBD-CAD	3.69	1.28	1.22
30	1S	304	CHL	CHC-C4B	3.69	1.47	1.39
29	09	310	CLA	CHB-C1B	3.69	1.47	1.39
30	08	301	CHL	OBD-CAD	3.69	1.28	1.22
29	1a	406	CLA	OBD-CAD	3.69	1.28	1.22
29	00	301	CLA	CHC-C4B	3.69	1.47	1.39
30	1r	305	CHL	OBD-CAD	3.69	1.28	1.22
29	08	308	CLA	CHB-C1B	3.69	1.47	1.39
29	07	307	CLA	OBD-CAD	3.69	1.28	1.22
29	1b	607	CLA	OBD-CAD	3.69	1.28	1.22
29	1s	315	CLA	OBD-CAD	3.69	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1N	315	CLA	OBD-CAD	3.69	1.28	1.22
30	03	305	CHL	OBD-CAD	3.69	1.28	1.22
29	08	306	CLA	OBD-CAD	3.69	1.28	1.22
29	1s	313	CLA	CHB-C1B	3.69	1.47	1.39
29	1R	312	CLA	OBD-CAD	3.69	1.28	1.22
29	05	302	CLA	OBD-CAD	3.69	1.28	1.22
30	02	605	CHL	OBD-CAD	3.69	1.28	1.22
29	06	608	CLA	CHB-C1B	3.68	1.47	1.39
29	08	307	CLA	OBD-CAD	3.68	1.28	1.22
30	07	311	CHL	OBD-CAD	3.68	1.28	1.22
29	1S	306	CLA	CHB-C1B	3.68	1.47	1.39
29	02	611	CLA	CHB-C1B	3.68	1.47	1.39
29	1b	612	CLA	CHB-C1B	3.68	1.47	1.39
29	1g	612	CLA	CHB-C1B	3.68	1.47	1.39
29	1d	406	CLA	C3C-C2C	3.68	1.44	1.36
29	1D	405	CLA	OBD-CAD	3.68	1.28	1.22
29	1r	308	CLA	OBD-CAD	3.68	1.28	1.22
30	1R	313	CHL	OBD-CAD	3.68	1.28	1.22
29	04	306	CLA	CHB-C1B	3.68	1.47	1.39
29	00	318	CLA	OBD-CAD	3.68	1.28	1.22
29	1d	407	CLA	OBD-CAD	3.68	1.28	1.22
30	08	303	CHL	OBD-CAD	3.68	1.28	1.22
30	1G	606	CHL	OBD-CAD	3.68	1.28	1.22
29	1g	614	CLA	OBD-CAD	3.68	1.28	1.22
30	04	304	CHL	OBD-CAD	3.68	1.28	1.22
29	1b	604	CLA	C1B-NB	-3.68	1.33	1.37
30	1G	601	CHL	OBD-CAD	3.67	1.28	1.22
29	1r	312	CLA	CHB-C1B	3.67	1.47	1.39
29	1b	613	CLA	OBD-CAD	3.67	1.28	1.22
29	1C	510	CLA	CHB-C1B	3.67	1.47	1.39
30	05	305	CHL	OBD-CAD	3.67	1.28	1.22
30	1s	308	CHL	OBD-CAD	3.67	1.28	1.22
30	1N	309	CHL	CHD-C4C	3.67	1.47	1.39
29	01	313	CLA	CHB-C1B	3.67	1.47	1.39
29	1N	313	CLA	CHB-C1B	3.67	1.47	1.39
30	01	305	CHL	OBD-CAD	3.67	1.28	1.22
29	1s	311	CLA	CHB-C1B	3.67	1.47	1.39
30	05	307	CHL	OBD-CAD	3.67	1.28	1.22
30	09	306	CHL	CHD-C4C	3.67	1.47	1.39
29	1n	612	CLA	OBD-CAD	3.67	1.28	1.22
29	1r	303	CLA	OBD-CAD	3.67	1.28	1.22
31	00	313	LUT	C30-C29	3.67	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1c	509	CLA	OBD-CAD	3.67	1.28	1.22
30	1n	605	CHL	OBD-CAD	3.67	1.28	1.22
29	09	317	CLA	C3C-C2C	3.67	1.44	1.36
29	02	614	CLA	CHB-C1B	3.67	1.47	1.39
29	1G	614	CLA	OBD-CAD	3.67	1.28	1.22
29	1C	511	CLA	OBD-CAD	3.67	1.28	1.22
29	07	307	CLA	CHB-C1B	3.67	1.47	1.39
30	09	305	CHL	CHD-C4C	3.67	1.47	1.39
29	03	307	CLA	OBD-CAD	3.67	1.28	1.22
30	09	306	CHL	OBD-CAD	3.67	1.28	1.22
30	1R	305	CHL	OBD-CAD	3.67	1.28	1.22
29	07	310	CLA	CHB-C1B	3.67	1.47	1.39
29	1n	611	CLA	CHB-C1B	3.67	1.47	1.39
31	07	313	LUT	C10-C9	3.67	1.40	1.35
29	1B	614	CLA	C3C-C2C	3.67	1.44	1.36
29	05	309	CLA	CHB-C1B	3.66	1.47	1.39
29	04	310	CLA	CHB-C1B	3.66	1.47	1.39
29	1G	614	CLA	CHB-C1B	3.66	1.47	1.39
29	1r	303	CLA	CHB-C1B	3.66	1.47	1.39
30	1n	607	CHL	OBD-CAD	3.66	1.28	1.22
29	1R	310	CLA	CHB-C1B	3.66	1.47	1.39
29	06	602	CLA	OBD-CAD	3.66	1.28	1.22
30	00	306	CHL	CHD-C4C	3.66	1.47	1.39
30	1N	310	CHL	OBD-CAD	3.66	1.28	1.22
29	06	609	CLA	CHB-C1B	3.66	1.47	1.39
29	1N	312	CLA	CHB-C1B	3.66	1.47	1.39
29	01	311	CLA	OBD-CAD	3.66	1.28	1.22
29	1C	502	CLA	OBD-CAD	3.66	1.28	1.22
29	1B	614	CLA	OBD-CAD	3.66	1.28	1.22
29	1g	603	CLA	CHB-C1B	3.66	1.47	1.39
29	00	309	CLA	OBD-CAD	3.66	1.28	1.22
29	03	308	CLA	OBD-CAD	3.66	1.28	1.22
29	1s	316	CLA	CHD-C1D	3.66	1.45	1.38
29	01	307	CLA	OBD-CAD	3.66	1.28	1.22
30	06	606	CHL	OBD-CAD	3.66	1.28	1.22
29	00	303	CLA	CHB-C1B	3.66	1.47	1.39
29	1B	607	CLA	CHC-C1C	3.66	1.45	1.38
29	1D	401	CLA	OBD-CAD	3.66	1.28	1.22
29	1c	512	CLA	OBD-CAD	3.65	1.28	1.22
29	1r	310	CLA	OBD-CAD	3.65	1.28	1.22
29	1b	617	CLA	CHB-C1B	3.65	1.47	1.39
30	02	601	CHL	OBD-CAD	3.65	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1c	514	CLA	OBD-CAD	3.65	1.28	1.22
31	01	315	LUT	C10-C9	3.65	1.40	1.35
30	1N	308	CHL	OBD-CAD	3.65	1.28	1.22
29	02	609	CLA	OBD-CAD	3.65	1.28	1.22
30	1s	310	CHL	OBD-CAD	3.65	1.28	1.22
29	06	607	CLA	CHB-C1B	3.65	1.47	1.39
29	1R	312	CLA	CHB-C1B	3.65	1.47	1.39
29	1S	305	CLA	CHB-C1B	3.65	1.47	1.39
35	1k	102	BCR	C14-C13	3.65	1.40	1.35
29	00	312	CLA	OBD-CAD	3.65	1.28	1.22
29	1n	613	CLA	OBD-CAD	3.65	1.28	1.22
30	1r	307	CHL	OBD-CAD	3.65	1.28	1.22
30	1S	304	CHL	OBD-CAD	3.65	1.28	1.22
29	1B	614	CLA	MG-NA	-3.65	1.97	2.06
29	1G	604	CLA	CHB-C1B	3.64	1.47	1.39
29	1N	311	CLA	CHB-C1B	3.64	1.47	1.39
35	1c	516	BCR	C14-C13	3.64	1.40	1.35
29	1S	310	CLA	CHB-C1B	3.64	1.47	1.39
30	1s	304	CHL	CHC-C4B	3.64	1.47	1.39
29	05	301	CLA	OBD-CAD	3.64	1.28	1.22
35	1b	618	BCR	C23-C22	-3.64	1.38	1.45
35	04	313	BCR	C17-C18	3.64	1.40	1.35
29	1b	606	CLA	CHB-C1B	3.64	1.47	1.39
29	1g	604	CLA	OBD-CAD	3.64	1.28	1.22
29	1S	312	CLA	OBD-CAD	3.64	1.28	1.22
31	1S	318	LUT	C30-C29	3.64	1.40	1.35
29	1N	315	CLA	CHB-C1B	3.64	1.47	1.39
31	1S	318	LUT	C14-C13	3.64	1.40	1.35
35	1A	409	BCR	C21-C22	3.64	1.40	1.35
29	03	301	CLA	OBD-CAD	3.63	1.28	1.22
35	1Z	101	BCR	C14-C13	3.63	1.40	1.35
29	1b	613	CLA	C3C-C2C	3.63	1.44	1.36
29	03	308	CLA	CHB-C1B	3.63	1.47	1.39
29	01	308	CLA	CHB-C1B	3.63	1.47	1.39
30	1g	601	CHL	CHC-C4B	3.63	1.47	1.39
29	1S	315	CLA	OBD-CAD	3.63	1.28	1.22
30	1g	609	CHL	OBD-CAD	3.63	1.28	1.22
29	1c	504	CLA	OBD-CAD	3.63	1.28	1.22
29	1C	501	CLA	OBD-CAD	3.63	1.28	1.22
29	1N	314	CLA	CHC-C4B	3.63	1.47	1.39
29	1R	309	CLA	OBD-CAD	3.63	1.28	1.22
30	04	305	CHL	OBD-CAD	3.63	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	02	613	CLA	CHB-C1B	3.63	1.47	1.39
35	1b	601	BCR	C17-C18	3.63	1.40	1.35
29	1n	603	CLA	CHB-C1B	3.63	1.47	1.39
29	09	301	CLA	CHB-C1B	3.63	1.47	1.39
30	07	306	CHL	OBD-CAD	3.63	1.28	1.22
29	1c	515	CLA	OBD-CAD	3.62	1.28	1.22
29	1r	302	CLA	CHB-C1B	3.62	1.47	1.39
29	1g	602	CLA	CHB-C1B	3.62	1.47	1.39
30	00	308	CHL	OBD-CAD	3.62	1.28	1.22
30	1g	607	CHL	OBD-CAD	3.62	1.28	1.22
29	1D	404	CLA	CHB-C1B	3.62	1.47	1.39
29	1S	305	CLA	CHC-C4B	3.62	1.47	1.39
29	1R	307	CLA	CHB-C1B	3.62	1.47	1.39
29	1R	307	CLA	CHC-C4B	3.62	1.47	1.39
30	1G	608	CHL	OBD-CAD	3.62	1.28	1.22
29	1B	603	CLA	OBD-CAD	3.62	1.28	1.22
29	1S	316	CLA	CHB-C1B	3.62	1.47	1.39
29	1S	305	CLA	OBD-CAD	3.62	1.28	1.22
29	1S	311	CLA	OBD-CAD	3.62	1.28	1.22
29	05	312	CLA	OBD-CAD	3.61	1.28	1.22
29	1n	614	CLA	OBD-CAD	3.61	1.28	1.22
29	07	310	CLA	OBD-CAD	3.61	1.28	1.22
29	1s	306	CLA	C4B-NB	-3.61	1.33	1.37
30	08	302	CHL	OBD-CAD	3.61	1.28	1.22
29	1g	610	CLA	CHB-C1B	3.61	1.47	1.39
29	09	312	CLA	CHB-C1B	3.61	1.47	1.39
30	09	305	CHL	OBD-CAD	3.61	1.28	1.22
29	1s	315	CLA	CHB-C1B	3.61	1.47	1.39
29	1n	614	CLA	CHB-C1B	3.61	1.47	1.39
35	1B	619	BCR	C21-C22	3.61	1.40	1.35
29	1c	513	CLA	OBD-CAD	3.61	1.28	1.22
29	1R	311	CLA	OBD-CAD	3.61	1.28	1.22
30	1G	609	CHL	OBD-CAD	3.61	1.28	1.22
30	1N	307	CHL	OBD-CAD	3.60	1.28	1.22
29	1N	304	CLA	CHB-C1B	3.60	1.47	1.39
29	1b	606	CLA	OBD-CAD	3.60	1.28	1.22
30	1n	608	CHL	CHC-C4B	3.60	1.47	1.39
29	1B	606	CLA	OBD-CAD	3.60	1.28	1.22
30	1N	302	CHL	OBD-CAD	3.60	1.28	1.22
29	00	301	CLA	CHB-C1B	3.60	1.47	1.39
29	1b	610	CLA	OBD-CAD	3.60	1.28	1.22
30	1N	309	CHL	OBD-CAD	3.60	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1N	305	CLA	CHB-C1B	3.60	1.47	1.39
35	1b	601	BCR	C14-C13	3.60	1.40	1.35
30	1r	313	CHL	OBD-CAD	3.60	1.28	1.22
29	04	312	CLA	OBD-CAD	3.60	1.28	1.22
29	09	303	CLA	CHB-C1B	3.60	1.47	1.39
29	1a	406	CLA	CHB-C1B	3.60	1.47	1.39
29	1b	616	CLA	OBD-CAD	3.59	1.28	1.22
29	1s	305	CLA	OBD-CAD	3.59	1.28	1.22
29	03	312	CLA	OBD-CAD	3.59	1.28	1.22
31	09	314	LUT	C30-C29	3.59	1.40	1.35
29	1S	315	CLA	CHB-C1B	3.59	1.47	1.39
35	1Z	101	BCR	C17-C18	3.59	1.40	1.35
29	03	309	CLA	CHB-C1B	3.59	1.47	1.39
29	1B	610	CLA	CHB-C1B	3.59	1.47	1.39
29	1s	307	CLA	OBD-CAD	3.59	1.28	1.22
30	08	304	CHL	OBD-CAD	3.59	1.28	1.22
31	00	314	LUT	C10-C9	3.59	1.40	1.35
31	1S	317	LUT	C30-C29	3.59	1.40	1.35
29	1B	608	CLA	CHB-C1B	3.59	1.47	1.39
30	05	305	CHL	CHC-C4B	3.59	1.47	1.39
29	1s	313	CLA	OBD-CAD	3.59	1.28	1.22
30	1r	306	CHL	CHD-C4C	3.59	1.47	1.39
29	1G	613	CLA	OBD-CAD	3.59	1.28	1.22
29	1r	310	CLA	CHB-C1B	3.59	1.47	1.39
29	08	310	CLA	CHB-C1B	3.59	1.47	1.39
29	1c	511	CLA	OBD-CAD	3.58	1.28	1.22
35	1Z	101	BCR	C10-C9	3.58	1.40	1.35
30	09	308	CHL	OBD-CAD	3.58	1.28	1.22
29	02	609	CLA	CHB-C1B	3.58	1.47	1.39
29	1n	611	CLA	OBD-CAD	3.58	1.28	1.22
30	09	305	CHL	CHC-C4B	3.58	1.47	1.39
29	1G	611	CLA	CHB-C1B	3.58	1.47	1.39
29	09	317	CLA	OBD-CAD	3.58	1.28	1.22
29	07	309	CLA	CHB-C1B	3.58	1.47	1.39
29	00	302	CLA	CHB-C1B	3.58	1.47	1.39
29	1a	405	CLA	CHB-C1B	3.58	1.47	1.39
29	1d	406	CLA	CHB-C1B	3.58	1.47	1.39
35	1I	102	BCR	C14-C13	3.58	1.40	1.35
30	1R	303	CHL	OBD-CAD	3.57	1.28	1.22
29	09	311	CLA	OBD-CAD	3.57	1.28	1.22
29	1g	610	CLA	OBD-CAD	3.57	1.28	1.22
29	1R	309	CLA	MG-NA	-3.57	1.97	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1R	308	CLA	OBD-CAD	3.57	1.28	1.22
35	1A	409	BCR	C14-C13	3.57	1.40	1.35
29	09	303	CLA	OBD-CAD	3.57	1.28	1.22
29	1N	311	CLA	OBD-CAD	3.57	1.28	1.22
31	1G	616	LUT	C30-C29	3.57	1.40	1.35
29	1C	512	CLA	CHB-C1B	3.57	1.47	1.39
29	1S	310	CLA	CHC-C4B	3.57	1.47	1.39
30	01	305	CHL	CHD-C4C	3.57	1.47	1.39
29	1n	610	CLA	C1D-C2D	3.57	1.52	1.45
30	01	305	CHL	CHC-C4B	3.57	1.47	1.39
29	08	307	CLA	CHB-C1B	3.57	1.47	1.39
35	1k	102	BCR	C10-C9	3.57	1.40	1.35
29	1C	510	CLA	OBD-CAD	3.57	1.28	1.22
30	1r	313	CHL	CHC-C4B	3.57	1.47	1.39
29	1r	308	CLA	CHB-C1B	3.56	1.47	1.39
29	1s	307	CLA	CHB-C1B	3.56	1.47	1.39
31	07	313	LUT	C30-C29	3.56	1.40	1.35
30	1s	309	CHL	CHC-C4B	3.56	1.47	1.39
29	1N	305	CLA	OBD-CAD	3.56	1.28	1.22
30	1r	306	CHL	CHC-C4B	3.56	1.47	1.39
29	1S	314	CLA	OBD-CAD	3.56	1.28	1.22
29	1a	408	CLA	OBD-CAD	3.56	1.28	1.22
35	1A	409	BCR	C17-C18	3.56	1.40	1.35
35	1c	516	BCR	C17-C18	3.56	1.40	1.35
35	1b	618	BCR	C8-C9	-3.56	1.38	1.45
29	1G	610	CLA	OBD-CAD	3.56	1.28	1.22
29	1g	614	CLA	CHB-C1B	3.56	1.47	1.39
30	1R	313	CHL	CHC-C4B	3.56	1.47	1.39
29	1b	614	CLA	OBD-CAD	3.56	1.28	1.22
30	06	604	CHL	CHC-C4B	3.55	1.47	1.39
29	05	312	CLA	CHD-C4C	3.55	1.47	1.39
29	1r	304	CLA	OBD-CAD	3.55	1.28	1.22
35	1B	618	BCR	C10-C9	3.55	1.40	1.35
29	09	309	CLA	CHB-C1B	3.55	1.47	1.39
35	1a	409	BCR	C17-C18	3.55	1.40	1.35
29	1G	602	CLA	CHB-C1B	3.55	1.47	1.39
29	08	309	CLA	CHD-C1D	3.55	1.45	1.38
29	1G	612	CLA	CHB-C1B	3.55	1.47	1.39
30	01	306	CHL	CHC-C4B	3.55	1.47	1.39
29	1C	512	CLA	OBD-CAD	3.55	1.28	1.22
31	1N	316	LUT	C34-C33	3.55	1.40	1.35
35	04	313	BCR	C21-C22	3.54	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1g	612	CLA	OBD-CAD	3.54	1.28	1.22
29	1b	605	CLA	OBD-CAD	3.54	1.28	1.22
29	00	310	CLA	OBD-CAD	3.54	1.28	1.22
30	1G	608	CHL	CHC-C4B	3.54	1.47	1.39
29	1c	503	CLA	OBD-CAD	3.54	1.28	1.22
30	01	304	CHL	CHC-C4B	3.53	1.47	1.39
30	09	307	CHL	CHC-C4B	3.53	1.47	1.39
35	1B	618	BCR	C17-C18	3.53	1.40	1.35
29	1c	512	CLA	CHC-C4B	3.53	1.47	1.39
35	1B	618	BCR	C21-C22	3.53	1.40	1.35
29	09	302	CLA	OBD-CAD	3.53	1.28	1.22
30	1R	304	CHL	OBD-CAD	3.53	1.28	1.22
35	1a	409	BCR	C14-C13	3.53	1.40	1.35
29	05	308	CLA	CHB-C1B	3.53	1.47	1.39
29	1R	302	CLA	CHB-C1B	3.53	1.47	1.39
35	1B	617	BCR	C23-C22	-3.53	1.38	1.45
30	01	303	CHL	CHC-C4B	3.52	1.47	1.39
45	1E	103	HEM	C4D-ND	-3.52	1.34	1.40
29	1n	610	CLA	C1B-NB	-3.52	1.33	1.37
29	1c	515	CLA	CHB-C1B	3.52	1.47	1.39
29	1N	304	CLA	OBD-CAD	3.52	1.28	1.22
29	1a	408	CLA	CHB-C1B	3.52	1.47	1.39
30	08	303	CHL	CHC-C4B	3.52	1.47	1.39
30	04	302	CHL	CHC-C4B	3.52	1.47	1.39
29	1B	605	CLA	CHB-C1B	3.52	1.47	1.39
30	06	606	CHL	CHC-C4B	3.52	1.47	1.39
30	09	307	CHL	OBD-CAD	3.52	1.28	1.22
29	1B	606	CLA	C1B-NB	-3.52	1.33	1.37
29	1r	304	CLA	CHB-C1B	3.52	1.47	1.39
29	1b	603	CLA	CHC-C1C	3.52	1.45	1.38
30	1G	607	CHL	OBD-CAD	3.52	1.28	1.22
29	1G	613	CLA	CHB-C1B	3.52	1.47	1.39
30	1G	607	CHL	CHC-C4B	3.51	1.47	1.39
29	1G	611	CLA	OBD-CAD	3.51	1.28	1.22
29	07	301	CLA	CHB-C1B	3.51	1.47	1.39
30	1g	608	CHL	CHC-C4B	3.51	1.47	1.39
35	1B	619	BCR	C17-C18	3.51	1.40	1.35
29	1s	316	CLA	CHD-C4C	3.51	1.47	1.39
29	1b	614	CLA	MG-NA	-3.51	1.97	2.06
29	08	309	CLA	CHB-C1B	3.51	1.47	1.39
29	1B	604	CLA	CHB-C1B	3.51	1.47	1.39
29	00	303	CLA	OBD-CAD	3.51	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	06	605	CHL	CHC-C4B	3.50	1.47	1.39
30	1R	305	CHL	CHC-C4B	3.50	1.47	1.39
29	1c	510	CLA	C4B-NB	-3.50	1.33	1.37
29	1n	604	CLA	CHB-C1B	3.50	1.47	1.39
29	1A	407	CLA	CHB-C1B	3.50	1.47	1.39
29	1c	510	CLA	OBD-CAD	3.50	1.28	1.22
29	00	312	CLA	CHB-C1B	3.50	1.47	1.39
29	06	602	CLA	CHC-C4B	3.50	1.47	1.39
35	1c	516	BCR	C10-C9	3.50	1.40	1.35
29	1c	514	CLA	CHB-C1B	3.50	1.47	1.39
30	05	306	CHL	CHC-C4B	3.50	1.47	1.39
35	04	313	BCR	C14-C13	3.50	1.40	1.35
35	1I	102	BCR	C17-C18	3.50	1.40	1.35
29	1c	506	CLA	CHB-C1B	3.49	1.47	1.39
29	01	312	CLA	CHB-C1B	3.49	1.47	1.39
29	1R	306	CLA	CHB-C1B	3.49	1.47	1.39
29	1n	604	CLA	OBD-CAD	3.49	1.28	1.22
35	1B	619	BCR	C10-C9	3.49	1.40	1.35
29	1b	608	CLA	CHB-C1B	3.49	1.47	1.39
30	03	311	CHL	OBD-CAD	3.49	1.28	1.22
30	08	305	CHL	CHC-C4B	3.49	1.47	1.39
30	1n	609	CHL	OBD-CAD	3.49	1.28	1.22
29	1G	610	CLA	CHC-C4B	3.49	1.47	1.39
29	1A	407	CLA	OBD-CAD	3.49	1.28	1.22
29	1n	602	CLA	OBD-CAD	3.49	1.28	1.22
35	1B	618	BCR	C14-C13	3.49	1.40	1.35
29	1B	604	CLA	OBD-CAD	3.49	1.28	1.22
30	1n	609	CHL	CHC-C4B	3.49	1.47	1.39
35	1i	101	BCR	C14-C13	3.49	1.40	1.35
29	1C	508	CLA	OBD-CAD	3.49	1.28	1.22
30	1G	605	CHL	CHC-C4B	3.48	1.47	1.39
30	05	315	CHL	CHC-C4B	3.48	1.47	1.39
29	1C	506	CLA	OBD-CAD	3.48	1.28	1.22
29	1S	311	CLA	CHB-C1B	3.48	1.47	1.39
29	1c	505	CLA	CHB-C1B	3.48	1.47	1.39
29	05	302	CLA	CHC-C4B	3.48	1.47	1.39
29	05	303	CLA	OBD-CAD	3.48	1.28	1.22
29	1C	513	CLA	OBD-CAD	3.48	1.28	1.22
29	1b	609	CLA	C1B-NB	-3.48	1.33	1.37
29	1s	312	CLA	CHB-C1B	3.48	1.47	1.39
29	1C	505	CLA	CHB-C1B	3.48	1.47	1.39
29	1C	513	CLA	CHC-C4B	3.48	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1S	306	CLA	OBD-CAD	3.48	1.28	1.22
30	00	306	CHL	CHC-C4B	3.48	1.47	1.39
31	1N	316	LUT	C14-C13	3.47	1.40	1.35
30	00	304	CHL	CHC-C4B	3.47	1.47	1.39
29	1b	603	CLA	CHB-C1B	3.47	1.47	1.39
30	00	305	CHL	OBD-CAD	3.47	1.28	1.22
30	1g	601	CHL	OBD-CAD	3.47	1.28	1.22
30	1G	609	CHL	CHC-C4B	3.47	1.47	1.39
35	1J	101	BCR	C17-C18	3.47	1.40	1.35
31	00	314	LUT	C30-C29	3.47	1.40	1.35
30	07	304	CHL	CHC-C4B	3.47	1.47	1.39
30	1s	310	CHL	CHC-C4B	3.47	1.47	1.39
29	1b	612	CLA	OBD-CAD	3.47	1.28	1.22
29	1B	603	CLA	CHB-C1B	3.47	1.47	1.39
30	1r	306	CHL	OBD-CAD	3.47	1.28	1.22
30	06	601	CHL	CHC-C4B	3.47	1.47	1.39
30	03	302	CHL	CHC-C4B	3.47	1.47	1.39
30	08	302	CHL	CHC-C4B	3.47	1.47	1.39
29	1n	610	CLA	C3D-C2D	3.47	1.48	1.39
30	1N	302	CHL	CHB-C1B	3.47	1.47	1.39
29	1C	504	CLA	OBD-CAD	3.47	1.28	1.22
30	04	304	CHL	CHC-C4B	3.46	1.47	1.39
30	1N	306	CHL	CHC-C4B	3.46	1.47	1.39
35	1b	619	BCR	C10-C9	3.46	1.40	1.35
29	1C	504	CLA	CHB-C1B	3.46	1.47	1.39
29	1R	314	CLA	CHB-C1B	3.46	1.47	1.39
30	06	603	CHL	CHC-C4B	3.46	1.47	1.39
35	1Z	101	BCR	C21-C22	3.46	1.40	1.35
29	00	302	CLA	OBD-CAD	3.46	1.28	1.22
29	04	309	CLA	CHB-C1B	3.46	1.47	1.39
29	01	309	CLA	CHC-C4B	3.46	1.47	1.39
29	1G	602	CLA	CHC-C4B	3.46	1.47	1.39
30	1g	608	CHL	OBD-CAD	3.46	1.28	1.22
29	02	608	CLA	OBD-CAD	3.46	1.28	1.22
30	07	303	CHL	CHC-C4B	3.46	1.47	1.39
29	1N	314	CLA	C3D-C2D	3.46	1.48	1.39
29	1D	405	CLA	CHB-C1B	3.46	1.47	1.39
30	00	305	CHL	CHB-C1B	3.46	1.47	1.39
30	1R	304	CHL	CHC-C4B	3.46	1.47	1.39
29	1c	506	CLA	OBD-CAD	3.46	1.28	1.22
30	02	606	CHL	CHC-C4B	3.46	1.47	1.39
29	1n	602	CLA	CHB-C1B	3.45	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	09	309	CLA	OBD-CAD	3.45	1.28	1.22
29	1n	610	CLA	CHC-C1C	3.45	1.45	1.38
29	08	311	CLA	OBD-CAD	3.45	1.28	1.22
35	1a	409	BCR	C10-C9	3.45	1.40	1.35
30	02	604	CHL	CHC-C4B	3.45	1.47	1.39
30	07	306	CHL	CHC-C4B	3.45	1.47	1.39
29	1d	406	CLA	CHC-C4B	3.45	1.47	1.39
29	1r	309	CLA	OBD-CAD	3.45	1.28	1.22
29	08	312	CLA	CHD-C1D	3.45	1.45	1.38
29	1s	305	CLA	CHC-C4B	3.45	1.47	1.39
29	1N	303	CLA	OBD-CAD	3.45	1.28	1.22
29	08	312	CLA	CHB-C1B	3.45	1.47	1.39
31	09	313	LUT	C30-C29	3.45	1.40	1.35
29	1b	611	CLA	C4B-NB	-3.44	1.33	1.37
29	03	306	CLA	OBD-CAD	3.44	1.28	1.22
29	1n	610	CLA	C4B-NB	-3.44	1.33	1.37
29	1r	309	CLA	CHC-C4B	3.44	1.47	1.39
30	1r	307	CHL	CHC-C4B	3.44	1.47	1.39
30	04	303	CHL	OBD-CAD	3.44	1.28	1.22
35	1B	617	BCR	C8-C9	-3.44	1.38	1.45
30	04	305	CHL	CHC-C4B	3.44	1.47	1.39
29	09	317	CLA	CHC-C4B	3.44	1.47	1.39
30	1G	606	CHL	CHC-C4B	3.44	1.47	1.39
30	05	307	CHL	CHB-C1B	3.44	1.47	1.39
31	01	315	LUT	C30-C29	3.44	1.40	1.35
35	1Z	102	BCR	C10-C9	3.44	1.40	1.35
29	1S	314	CLA	CHB-C1B	3.44	1.47	1.39
35	1Z	102	BCR	C17-C18	3.43	1.40	1.35
29	02	608	CLA	CHC-C4B	3.43	1.47	1.39
35	1I	102	BCR	C10-C9	3.43	1.40	1.35
29	03	310	CLA	CHD-C1D	3.43	1.45	1.38
30	00	307	CHL	OBD-CAD	3.43	1.28	1.22
29	1B	602	CLA	C1B-NB	-3.43	1.33	1.37
29	00	311	CLA	OBD-CAD	3.43	1.28	1.22
35	04	313	BCR	C10-C9	3.43	1.40	1.35
45	1f	101	HEM	C1B-NB	-3.43	1.34	1.40
29	01	312	CLA	CHD-C1D	3.43	1.45	1.38
29	1b	608	CLA	OBD-CAD	3.43	1.28	1.22
29	1a	405	CLA	CHC-C4B	3.42	1.47	1.39
29	1b	603	CLA	OBD-CAD	3.42	1.28	1.22
29	05	311	CLA	CHC-C4B	3.42	1.47	1.39
29	1c	507	CLA	OBD-CAD	3.42	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1r	302	CLA	OBD-CAD	3.42	1.28	1.22
29	08	308	CLA	CHC-C4B	3.42	1.47	1.39
29	1S	314	CLA	CHD-C1D	3.42	1.45	1.38
29	1r	314	CLA	CHB-C1B	3.42	1.47	1.39
35	1B	619	BCR	C14-C13	3.42	1.40	1.35
29	1c	503	CLA	CHB-C1B	3.42	1.47	1.39
29	1R	308	CLA	CHC-C4B	3.42	1.47	1.39
30	02	603	CHL	CHC-C4B	3.42	1.47	1.39
30	08	304	CHL	CHC-C4B	3.42	1.47	1.39
29	1n	603	CLA	OBD-CAD	3.42	1.28	1.22
29	05	301	CLA	CHB-C1B	3.42	1.47	1.39
30	1S	308	CHL	CHC-C4B	3.41	1.47	1.39
29	04	314	CLA	CHB-C1B	3.41	1.47	1.39
35	1i	101	BCR	C10-C9	3.41	1.40	1.35
30	1s	308	CHL	CHC-C4B	3.41	1.47	1.39
35	1a	409	BCR	C21-C22	3.41	1.40	1.35
29	04	314	CLA	CHD-C1D	3.41	1.45	1.38
29	1d	407	CLA	CHB-C1B	3.41	1.47	1.39
29	1r	309	CLA	CHB-C1B	3.41	1.47	1.39
29	1B	616	CLA	OBD-CAD	3.41	1.28	1.22
29	1c	510	CLA	CHB-C1B	3.41	1.47	1.39
30	02	607	CHL	CHC-C4B	3.41	1.47	1.39
30	09	306	CHL	CHC-C4B	3.41	1.47	1.39
29	05	312	CLA	CHC-C4B	3.41	1.47	1.39
29	01	301	CLA	CHC-C4B	3.41	1.47	1.39
35	1A	409	BCR	C10-C9	3.41	1.40	1.35
30	02	601	CHL	CHC-C4B	3.41	1.47	1.39
30	03	303	CHL	CHB-C1B	3.41	1.47	1.39
30	1S	309	CHL	CHC-C4B	3.41	1.47	1.39
29	08	309	CLA	CHD-C4C	3.40	1.47	1.39
29	1b	607	CLA	CHD-C1D	3.40	1.45	1.38
29	1C	506	CLA	CHB-C1B	3.40	1.47	1.39
29	1c	515	CLA	CHC-C4B	3.40	1.47	1.39
29	03	306	CLA	CHC-C4B	3.40	1.47	1.39
29	1c	503	CLA	CHC-C4B	3.40	1.47	1.39
30	1g	607	CHL	CHC-C4B	3.40	1.47	1.39
29	1b	611	CLA	OBD-CAD	3.40	1.28	1.22
29	1b	604	CLA	CHB-C1B	3.40	1.47	1.39
29	1A	404	CLA	OBD-CAD	3.40	1.28	1.22
29	05	309	CLA	OBD-CAD	3.40	1.28	1.22
29	1B	608	CLA	OBD-CAD	3.40	1.28	1.22
29	1C	505	CLA	OBD-CAD	3.40	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	03	313	LUT	C30-C29	3.40	1.40	1.35
35	1B	630	BCR	C21-C22	3.40	1.40	1.35
29	1c	508	CLA	CHB-C1B	3.40	1.47	1.39
29	1s	316	CLA	OBD-CAD	3.40	1.28	1.22
29	1B	602	CLA	OBD-CAD	3.40	1.28	1.22
30	1n	605	CHL	CHC-C4B	3.39	1.47	1.39
29	1g	602	CLA	CHC-C4B	3.39	1.47	1.39
30	1n	601	CHL	CHC-C4B	3.39	1.47	1.39
29	1b	615	CLA	CHB-C1B	3.39	1.47	1.39
29	1b	602	CLA	CHB-C1B	3.39	1.47	1.39
30	03	311	CHL	CHC-C4B	3.39	1.47	1.39
29	1n	604	CLA	CHD-C1D	3.39	1.45	1.38
29	05	303	CLA	CHB-C1B	3.39	1.47	1.39
30	04	301	CHL	CHC-C4B	3.39	1.47	1.39
29	1b	602	CLA	CHD-C4C	3.39	1.47	1.39
29	1b	613	CLA	CHC-C4B	3.39	1.47	1.39
29	03	310	CLA	OBD-CAD	3.38	1.28	1.22
45	1f	101	HEM	C4D-ND	-3.38	1.34	1.40
35	1b	619	BCR	C17-C18	3.38	1.40	1.35
29	1N	303	CLA	CHC-C4B	3.38	1.47	1.39
30	1G	607	CHL	CHB-C1B	3.38	1.47	1.39
30	1g	605	CHL	CHC-C4B	3.38	1.47	1.39
29	1c	509	CLA	C4B-NB	-3.38	1.33	1.37
29	03	310	CLA	CHD-C4C	3.38	1.46	1.39
29	04	314	CLA	CHC-C4B	3.38	1.47	1.39
29	1R	302	CLA	OBD-CAD	3.38	1.28	1.22
29	1b	602	CLA	CHD-C1D	3.38	1.44	1.38
31	1N	316	LUT	C10-C9	3.38	1.40	1.35
35	1b	619	BCR	C21-C22	3.37	1.40	1.35
29	05	308	CLA	CHC-C4B	3.37	1.47	1.39
29	1N	314	CLA	CHB-C1B	3.37	1.47	1.39
29	1a	408	CLA	CHC-C4B	3.37	1.47	1.39
29	1B	612	CLA	CHB-C1B	3.37	1.47	1.39
35	1i	101	BCR	C17-C18	3.37	1.40	1.35
29	1B	610	CLA	OBD-CAD	3.37	1.28	1.22
29	1n	613	CLA	C1B-NB	-3.37	1.33	1.37
30	1N	308	CHL	CHC-C4B	3.37	1.47	1.39
29	1g	604	CLA	CHD-C1D	3.37	1.44	1.38
35	1c	516	BCR	C23-C22	-3.37	1.38	1.45
35	1i	101	BCR	C23-C22	-3.37	1.38	1.45
30	03	305	CHL	CHC-C4B	3.37	1.47	1.39
29	1c	505	CLA	OBD-CAD	3.36	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	03	310	CLA	CHB-C1B	3.36	1.47	1.39
30	08	301	CHL	CHC-C4B	3.36	1.46	1.39
29	1B	611	CLA	OBD-CAD	3.36	1.28	1.22
30	01	302	CHL	CHC-C4B	3.36	1.46	1.39
29	1b	609	CLA	CHB-C1B	3.36	1.46	1.39
35	1I	102	BCR	C21-C22	3.36	1.40	1.35
30	07	305	CHL	CHC-C4B	3.36	1.46	1.39
29	1g	603	CLA	OBD-CAD	3.36	1.28	1.22
29	1G	603	CLA	CHB-C1B	3.36	1.46	1.39
29	04	309	CLA	CHD-C1D	3.36	1.44	1.38
29	1B	602	CLA	CHB-C1B	3.35	1.46	1.39
29	1C	503	CLA	CHB-C1B	3.35	1.46	1.39
29	1g	604	CLA	CHB-C1B	3.35	1.46	1.39
29	1C	501	CLA	C4B-NB	-3.35	1.33	1.37
29	1R	314	CLA	CHD-C1D	3.35	1.44	1.38
31	1S	317	LUT	C10-C9	3.35	1.40	1.35
29	1R	302	CLA	CHC-C4B	3.35	1.46	1.39
29	1C	512	CLA	CHC-C4B	3.35	1.46	1.39
29	01	309	CLA	CHD-C1D	3.35	1.44	1.38
29	1S	315	CLA	C4B-NB	-3.34	1.33	1.37
29	1S	314	CLA	CHC-C4B	3.34	1.46	1.39
29	07	310	CLA	CHD-C1D	3.34	1.44	1.38
29	1s	306	CLA	CHC-C4B	3.34	1.46	1.39
29	1b	607	CLA	CHB-C1B	3.34	1.46	1.39
30	03	304	CHL	CHC-C4B	3.34	1.46	1.39
29	08	310	CLA	CHC-C4B	3.34	1.46	1.39
29	1S	310	CLA	OBD-CAD	3.34	1.28	1.22
29	1c	508	CLA	CHD-C4C	3.34	1.46	1.39
29	04	314	CLA	CHD-C4C	3.34	1.46	1.39
29	08	312	CLA	CHD-C4C	3.34	1.46	1.39
35	1b	601	BCR	C23-C22	-3.34	1.38	1.45
29	1R	307	CLA	OBD-CAD	3.33	1.28	1.22
29	1s	312	CLA	CHD-C1D	3.33	1.44	1.38
29	1c	507	CLA	CHD-C1D	3.33	1.44	1.38
29	1g	614	CLA	CHD-C1D	3.33	1.44	1.38
29	09	301	CLA	OBD-CAD	3.33	1.28	1.22
29	1A	404	CLA	CHB-C1B	3.33	1.46	1.39
29	1c	508	CLA	CHD-C1D	3.33	1.44	1.38
29	1g	602	CLA	OBD-CAD	3.33	1.28	1.22
30	1r	305	CHL	CHC-C4B	3.33	1.46	1.39
29	1B	601	CLA	OBD-CAD	3.33	1.28	1.22
29	1c	507	CLA	CHC-C4B	3.33	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	01	309	CLA	CHD-C4C	3.33	1.46	1.39
30	1g	601	CHL	CHB-C1B	3.33	1.46	1.39
29	08	311	CLA	CHC-C4B	3.33	1.46	1.39
29	05	303	CLA	CHD-C1D	3.32	1.44	1.38
29	1r	302	CLA	CHC-C4B	3.32	1.46	1.39
30	00	307	CHL	CHC-C4B	3.32	1.46	1.39
29	1C	511	CLA	CHC-C4B	3.32	1.46	1.39
30	1S	307	CHL	CHC-C4B	3.32	1.46	1.39
29	1C	501	CLA	CHD-C1D	3.32	1.44	1.38
29	1b	615	CLA	CHD-C1D	3.32	1.44	1.38
29	04	310	CLA	CHD-C1D	3.32	1.44	1.38
35	1Z	102	BCR	C21-C22	3.32	1.40	1.35
29	1C	505	CLA	CHD-C1D	3.32	1.44	1.38
29	03	308	CLA	CHD-C4C	3.31	1.46	1.39
30	1N	307	CHL	CHC-C4B	3.31	1.46	1.39
29	02	602	CLA	CHC-C4B	3.31	1.46	1.39
29	1B	608	CLA	C4B-NB	-3.31	1.33	1.37
35	1b	620	BCR	C8-C9	-3.31	1.38	1.45
29	03	308	CLA	CHD-C1D	3.31	1.44	1.38
29	04	309	CLA	OBD-CAD	3.31	1.28	1.22
29	00	309	CLA	CHC-C4B	3.31	1.46	1.39
29	05	312	CLA	C1D-C2D	3.31	1.51	1.45
30	05	313	CHL	CHC-C4B	3.31	1.46	1.39
29	07	309	CLA	CHD-C1D	3.31	1.44	1.38
30	02	605	CHL	CHC-C4B	3.30	1.46	1.39
29	1G	611	CLA	C4B-NB	-3.30	1.33	1.37
29	06	607	CLA	CHC-C4B	3.30	1.46	1.39
29	1N	314	CLA	CHD-C4C	3.30	1.46	1.39
29	1n	602	CLA	CHC-C4B	3.30	1.46	1.39
29	1N	305	CLA	CHD-C1D	3.30	1.44	1.38
29	1R	314	CLA	CHC-C4B	3.30	1.46	1.39
29	1B	612	CLA	OBD-CAD	3.30	1.28	1.22
29	1B	605	CLA	OBD-CAD	3.30	1.28	1.22
29	03	301	CLA	CHC-C4B	3.30	1.46	1.39
47	1X	101	3PH	P-O11	3.30	1.70	1.60
29	1N	315	CLA	CHC-C4B	3.30	1.46	1.39
29	1n	603	CLA	CHD-C1D	3.30	1.44	1.38
29	1C	504	CLA	CHC-C4B	3.30	1.46	1.39
29	05	301	CLA	CHC-C4B	3.30	1.46	1.39
29	1n	613	CLA	CHD-C1D	3.30	1.44	1.38
29	01	301	CLA	CHD-C1D	3.29	1.44	1.38
29	1B	611	CLA	C4B-NB	-3.29	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1n	614	CLA	CHD-C1D	3.29	1.44	1.38
29	1C	506	CLA	CHC-C4B	3.29	1.46	1.39
29	00	310	CLA	CHC-C4B	3.29	1.46	1.39
29	02	610	CLA	CHC-C4B	3.29	1.46	1.39
29	1R	306	CLA	CHD-C4C	3.29	1.46	1.39
29	1C	507	CLA	C3D-C2D	3.29	1.48	1.39
29	1R	308	CLA	CHD-C1D	3.29	1.44	1.38
30	09	308	CHL	CHB-C1B	3.29	1.46	1.39
35	1Z	102	BCR	C14-C13	3.29	1.40	1.35
29	1r	310	CLA	CHC-C4B	3.29	1.46	1.39
35	1b	620	BCR	C14-C13	3.29	1.40	1.35
31	05	314	LUT	C8-C9	-3.29	1.38	1.45
29	07	312	CLA	CHC-C4B	3.29	1.46	1.39
29	07	301	CLA	C4B-NB	-3.29	1.33	1.37
29	02	614	CLA	CHC-C4B	3.28	1.46	1.39
29	1s	316	CLA	CHB-C1B	3.28	1.46	1.39
29	05	303	CLA	CHD-C4C	3.28	1.46	1.39
29	04	306	CLA	CHD-C1D	3.28	1.44	1.38
29	1B	607	CLA	OBD-CAD	3.28	1.28	1.22
29	06	610	CLA	CHC-C4B	3.28	1.46	1.39
29	1c	515	CLA	CHD-C4C	3.28	1.46	1.39
29	04	310	CLA	CHD-C4C	3.28	1.46	1.39
29	01	301	CLA	CHD-C4C	3.28	1.46	1.39
29	1B	602	CLA	CHD-C1D	3.28	1.44	1.38
31	05	314	LUT	C10-C9	3.28	1.40	1.35
29	1c	509	CLA	CHB-C1B	3.28	1.46	1.39
29	1n	604	CLA	CHD-C4C	3.28	1.46	1.39
29	1a	406	CLA	CHC-C4B	3.28	1.46	1.39
29	1N	305	CLA	CHD-C4C	3.28	1.46	1.39
29	04	310	CLA	CHC-C4B	3.28	1.46	1.39
29	1A	407	CLA	CHC-C4B	3.27	1.46	1.39
29	00	309	CLA	CHB-C1B	3.27	1.46	1.39
29	1n	611	CLA	CHC-C4B	3.27	1.46	1.39
29	1N	312	CLA	CHD-C1D	3.27	1.44	1.38
29	07	309	CLA	CHD-C4C	3.27	1.46	1.39
45	1E	103	HEM	C1B-NB	-3.27	1.34	1.40
29	06	610	CLA	CHD-C1D	3.27	1.44	1.38
29	02	614	CLA	CHD-C4C	3.27	1.46	1.39
35	1c	516	BCR	C21-C22	3.27	1.40	1.35
29	01	312	CLA	CHD-C4C	3.27	1.46	1.39
29	01	310	CLA	CHC-C4B	3.27	1.46	1.39
35	1i	101	BCR	C8-C9	-3.27	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1r	312	CLA	CHD-C1D	3.27	1.44	1.38
29	03	309	CLA	CHC-C4B	3.27	1.46	1.39
30	08	301	CHL	CHB-C1B	3.27	1.46	1.39
30	09	304	CHL	CHC-C4B	3.27	1.46	1.39
29	1r	304	CLA	CHC-C4B	3.27	1.46	1.39
31	1s	318	LUT	C14-C13	3.27	1.40	1.35
29	08	310	CLA	CHD-C1D	3.26	1.44	1.38
29	1B	604	CLA	CHD-C1D	3.26	1.44	1.38
29	1g	604	CLA	CHD-C4C	3.26	1.46	1.39
29	02	611	CLA	CHC-C4B	3.26	1.46	1.39
29	06	611	CLA	CHC-C4B	3.26	1.46	1.39
30	05	304	CHL	CHC-C1C	3.26	1.45	1.38
29	1b	603	CLA	CHD-C1D	3.26	1.44	1.38
29	1B	615	CLA	CHC-C4B	3.26	1.46	1.39
29	03	310	CLA	CHC-C4B	3.26	1.46	1.39
29	1G	612	CLA	CHD-C1D	3.26	1.44	1.38
29	1S	310	CLA	CHD-C1D	3.26	1.44	1.38
29	1s	312	CLA	CHD-C4C	3.26	1.46	1.39
29	1B	609	CLA	CHB-C1B	3.26	1.46	1.39
29	01	307	CLA	CHD-C1D	3.26	1.44	1.38
30	1n	601	CHL	OBD-CAD	3.25	1.28	1.22
29	1R	310	CLA	CHD-C1D	3.25	1.44	1.38
29	1C	507	CLA	CHD-C1D	3.25	1.44	1.38
35	1b	619	BCR	C14-C13	3.25	1.40	1.35
29	02	609	CLA	CHC-C4B	3.25	1.46	1.39
29	1d	403	CLA	CHC-C4B	3.25	1.46	1.39
29	1c	509	CLA	CHC-C4B	3.25	1.46	1.39
29	1c	504	CLA	C4B-NB	-3.25	1.33	1.37
30	1g	609	CHL	CHC-C4B	3.25	1.46	1.39
29	09	312	CLA	CHD-C1D	3.25	1.44	1.38
29	00	302	CLA	CHC-C4B	3.25	1.46	1.39
29	1b	603	CLA	MG-NA	-3.25	1.98	2.06
35	1Z	102	BCR	C23-C22	-3.25	1.39	1.45
29	1B	606	CLA	CHB-C1B	3.25	1.46	1.39
29	01	311	CLA	CHC-C4B	3.24	1.46	1.39
29	08	312	CLA	CHC-C4B	3.24	1.46	1.39
29	03	312	CLA	CHC-C4B	3.24	1.46	1.39
29	1n	613	CLA	CHD-C4C	3.24	1.46	1.39
29	04	308	CLA	CHC-C4B	3.24	1.46	1.39
30	07	311	CHL	CHB-C1B	3.24	1.46	1.39
29	1R	306	CLA	CHC-C4B	3.24	1.46	1.39
29	1C	508	CLA	C4B-NB	-3.24	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	01	307	CLA	CHD-C4C	3.24	1.46	1.39
29	1B	601	CLA	CHC-C4B	3.24	1.46	1.39
29	1S	310	CLA	CHD-C4C	3.24	1.46	1.39
30	1n	607	CHL	CHC-C4B	3.24	1.46	1.39
29	1C	507	CLA	C4B-NB	-3.24	1.33	1.37
29	1G	613	CLA	CHC-C4B	3.24	1.46	1.39
30	1N	310	CHL	CHC-C4B	3.24	1.46	1.39
29	1C	501	CLA	CHD-C4C	3.24	1.46	1.39
30	04	305	CHL	CHB-C1B	3.24	1.46	1.39
29	01	313	CLA	CHC-C4B	3.24	1.46	1.39
29	09	310	CLA	CHC-C4B	3.24	1.46	1.39
29	1b	617	CLA	CHD-C1D	3.23	1.44	1.38
29	1s	311	CLA	CHD-C1D	3.23	1.44	1.38
29	07	301	CLA	OBD-CAD	3.23	1.28	1.22
30	08	304	CHL	CHB-C1B	3.23	1.46	1.39
29	06	609	CLA	CHC-C4B	3.23	1.46	1.39
29	06	608	CLA	CHC-C4B	3.23	1.46	1.39
29	1r	308	CLA	CHC-C4B	3.23	1.46	1.39
30	02	606	CHL	CHB-C1B	3.23	1.46	1.39
29	02	610	CLA	CHD-C1D	3.23	1.44	1.38
35	1B	630	BCR	C10-C9	3.23	1.40	1.35
29	1R	311	CLA	CHC-C4B	3.23	1.46	1.39
29	04	311	CLA	CHC-C4B	3.23	1.46	1.39
29	1b	604	CLA	OBD-CAD	3.23	1.28	1.22
29	06	608	CLA	CHD-C1D	3.23	1.44	1.38
29	04	312	CLA	CHC-C4B	3.23	1.46	1.39
29	1R	314	CLA	CHD-C4C	3.22	1.46	1.39
29	1S	312	CLA	CHC-C4B	3.22	1.46	1.39
29	1b	617	CLA	C4B-NB	-3.22	1.33	1.37
29	05	308	CLA	CHD-C1D	3.22	1.44	1.38
29	1b	605	CLA	CHD-C1D	3.22	1.44	1.38
29	1b	615	CLA	CHD-C4C	3.22	1.46	1.39
29	04	306	CLA	CHD-C4C	3.22	1.46	1.39
29	1C	507	CLA	C1B-NB	-3.22	1.33	1.37
29	01	307	CLA	CHC-C4B	3.22	1.46	1.39
29	1c	507	CLA	CHB-C1B	3.22	1.46	1.39
29	1G	604	CLA	CHD-C4C	3.22	1.46	1.39
29	1B	607	CLA	CHD-C1D	3.22	1.44	1.38
29	1r	303	CLA	CHC-C4B	3.22	1.46	1.39
30	1n	606	CHL	CHC-C4B	3.22	1.46	1.39
29	1C	507	CLA	CHB-C1B	3.22	1.46	1.39
35	1B	630	BCR	C14-C13	3.22	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	00	308	CHL	CHB-C1B	3.22	1.46	1.39
30	1R	305	CHL	CHB-C1B	3.22	1.46	1.39
30	07	306	CHL	CHB-C1B	3.21	1.46	1.39
29	00	301	CLA	OBD-CAD	3.21	1.28	1.22
29	1s	314	CLA	CHC-C4B	3.21	1.46	1.39
30	05	304	CHL	CHB-C1B	3.21	1.46	1.39
29	06	608	CLA	CHD-C4C	3.21	1.46	1.39
30	00	308	CHL	CHC-C4B	3.21	1.46	1.39
29	03	307	CLA	CHC-C4B	3.21	1.46	1.39
30	1n	609	CHL	CHB-C1B	3.21	1.46	1.39
29	1S	314	CLA	CHD-C4C	3.21	1.46	1.39
29	07	301	CLA	CHC-C4B	3.21	1.46	1.39
29	1g	614	CLA	CHC-C4B	3.21	1.46	1.39
29	01	313	CLA	CHD-C4C	3.21	1.46	1.39
29	06	609	CLA	CHD-C1D	3.21	1.44	1.38
29	08	307	CLA	CHD-C1D	3.21	1.44	1.38
29	1N	315	CLA	CHD-C1D	3.21	1.44	1.38
29	07	307	CLA	CHD-C1D	3.21	1.44	1.38
29	07	309	CLA	CHC-C4B	3.21	1.46	1.39
29	1b	615	CLA	CHC-C4B	3.21	1.46	1.39
29	04	307	CLA	CHD-C1D	3.21	1.44	1.38
29	1G	604	CLA	CHD-C1D	3.21	1.44	1.38
29	1b	608	CLA	CHD-C1D	3.21	1.44	1.38
29	00	318	CLA	CHC-C4B	3.21	1.46	1.39
29	00	312	CLA	CHD-C4C	3.21	1.46	1.39
29	09	312	CLA	CHC-C4B	3.21	1.46	1.39
29	1r	312	CLA	CHD-C4C	3.21	1.46	1.39
29	05	308	CLA	CHD-C4C	3.20	1.46	1.39
29	1b	607	CLA	CHD-C4C	3.20	1.46	1.39
29	1D	405	CLA	CHD-C4C	3.20	1.46	1.39
29	1n	613	CLA	C3D-C2D	3.20	1.47	1.39
29	1G	610	CLA	CHD-C4C	3.20	1.46	1.39
29	1S	316	CLA	CHC-C4B	3.20	1.46	1.39
30	06	601	CHL	CHB-C1B	3.20	1.46	1.39
30	1G	601	CHL	CHC-C4B	3.20	1.46	1.39
29	1s	312	CLA	CHC-C4B	3.20	1.46	1.39
38	1A	405	PHO	C4D-CHA	3.20	1.44	1.39
29	1B	604	CLA	CHD-C4C	3.20	1.46	1.39
29	05	303	CLA	CHC-C4B	3.20	1.46	1.39
29	1R	312	CLA	CHC-C4B	3.20	1.46	1.39
29	1g	613	CLA	CHC-C4B	3.20	1.46	1.39
29	1G	603	CLA	CHD-C4C	3.20	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1D	401	CLA	MG-NA	-3.20	1.98	2.06
29	04	309	CLA	CHD-C4C	3.20	1.46	1.39
29	1B	608	CLA	C1B-NB	-3.20	1.33	1.37
29	1s	313	CLA	CHC-C4B	3.20	1.46	1.39
30	09	304	CHL	CHB-C1B	3.20	1.46	1.39
29	1N	312	CLA	CHC-C4B	3.20	1.46	1.39
29	1b	613	CLA	C4B-NB	-3.20	1.33	1.37
29	06	609	CLA	CHD-C4C	3.20	1.46	1.39
30	02	601	CHL	CHB-C1B	3.19	1.46	1.39
29	1S	315	CLA	C3B-C4B	3.19	1.50	1.42
29	1b	617	CLA	CHD-C4C	3.19	1.46	1.39
35	1B	630	BCR	C23-C22	-3.19	1.39	1.45
35	1b	620	BCR	C17-C18	3.19	1.40	1.35
29	1R	306	CLA	CHD-C1D	3.19	1.44	1.38
29	04	307	CLA	CHD-C4C	3.19	1.46	1.39
29	1b	602	CLA	CHC-C4B	3.19	1.46	1.39
29	1n	614	CLA	CHC-C4B	3.19	1.46	1.39
30	1R	303	CHL	CHC-C4B	3.19	1.46	1.39
29	04	306	CLA	CHC-C4B	3.19	1.46	1.39
29	1r	312	CLA	CHC-C4B	3.19	1.46	1.39
29	03	310	CLA	C3D-C2D	3.19	1.47	1.39
30	1n	606	CHL	CHB-C1B	3.19	1.46	1.39
29	1N	315	CLA	CHD-C4C	3.19	1.46	1.39
29	1n	614	CLA	CHD-C4C	3.19	1.46	1.39
29	07	308	CLA	CHC-C4B	3.19	1.46	1.39
29	1c	509	CLA	CHD-C4C	3.19	1.46	1.39
29	1r	309	CLA	CHD-C1D	3.19	1.44	1.38
29	09	303	CLA	CHD-C1D	3.19	1.44	1.38
29	01	312	CLA	CHC-C4B	3.19	1.46	1.39
29	05	309	CLA	CHC-C4B	3.18	1.46	1.39
29	1R	310	CLA	CHC-C4B	3.18	1.46	1.39
35	1I	102	BCR	C8-C9	-3.18	1.39	1.45
29	1r	311	CLA	CHD-C1D	3.18	1.44	1.38
29	1G	613	CLA	CHD-C1D	3.18	1.44	1.38
29	08	307	CLA	CHC-C4B	3.18	1.46	1.39
30	1g	609	CHL	CHB-C1B	3.18	1.46	1.39
29	1g	614	CLA	CHD-C4C	3.18	1.46	1.39
29	09	311	CLA	C4B-NB	-3.18	1.33	1.37
30	1s	308	CHL	CHB-C1B	3.18	1.46	1.39
29	1c	503	CLA	CHD-C1D	3.18	1.44	1.38
29	00	303	CLA	CHD-C4C	3.18	1.46	1.39
30	01	306	CHL	CHB-C1B	3.18	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	00	311	CLA	CHC-C4B	3.18	1.46	1.39
38	1a	407	PHO	C4D-CHA	3.18	1.44	1.39
29	06	610	CLA	CHD-C4C	3.18	1.46	1.39
29	1r	310	CLA	CHD-C1D	3.18	1.44	1.38
30	07	304	CHL	CHB-C1B	3.18	1.46	1.39
29	04	308	CLA	CHD-C1D	3.18	1.44	1.38
30	1r	305	CHL	CHB-C1B	3.18	1.46	1.39
29	09	309	CLA	CHC-C4B	3.18	1.46	1.39
30	07	311	CHL	CHC-C4B	3.18	1.46	1.39
29	02	609	CLA	CHD-C1D	3.18	1.44	1.38
29	1b	603	CLA	C3D-C2D	3.18	1.47	1.39
29	1s	307	CLA	CHD-C1D	3.17	1.44	1.38
29	1B	605	CLA	CHD-C1D	3.17	1.44	1.38
29	1r	314	CLA	CHD-C1D	3.17	1.44	1.38
29	03	309	CLA	CHD-C4C	3.17	1.46	1.39
29	1N	314	CLA	CHD-C1D	3.17	1.44	1.38
30	02	604	CHL	CHB-C1B	3.17	1.46	1.39
29	09	312	CLA	CHD-C4C	3.17	1.46	1.39
29	1B	609	CLA	C1B-NB	-3.17	1.33	1.37
29	1A	404	CLA	CHC-C4B	3.17	1.46	1.39
29	1N	311	CLA	CHC-C4B	3.17	1.46	1.39
29	1R	308	CLA	CHB-C1B	3.17	1.46	1.39
30	1G	605	CHL	CHB-C1B	3.17	1.46	1.39
30	02	603	CHL	CHB-C1B	3.17	1.46	1.39
29	04	308	CLA	CHD-C4C	3.17	1.46	1.39
29	07	310	CLA	CHD-C4C	3.17	1.46	1.39
29	02	611	CLA	CHD-C1D	3.17	1.44	1.38
30	1N	307	CHL	CHB-C1B	3.17	1.46	1.39
29	00	312	CLA	CHD-C1D	3.17	1.44	1.38
29	1G	603	CLA	CHC-C4B	3.17	1.46	1.39
29	1C	501	CLA	CHB-C1B	3.17	1.46	1.39
29	1c	509	CLA	CHD-C1D	3.17	1.44	1.38
30	1S	309	CHL	CHB-C1B	3.16	1.46	1.39
30	01	303	CHL	CHB-C1B	3.16	1.46	1.39
30	06	604	CHL	CHB-C1B	3.16	1.46	1.39
30	07	303	CHL	CHB-C1B	3.16	1.46	1.39
29	01	313	CLA	CHD-C1D	3.16	1.44	1.38
29	06	607	CLA	CHD-C1D	3.16	1.44	1.38
30	04	304	CHL	CHB-C1B	3.16	1.46	1.39
29	1s	311	CLA	CHC-C4B	3.16	1.46	1.39
29	1c	508	CLA	C3D-C2D	3.16	1.47	1.39
29	1S	311	CLA	CHC-C4B	3.16	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	02	607	CHL	CHB-C1B	3.16	1.46	1.39
29	05	301	CLA	CHD-C4C	3.16	1.46	1.39
29	1n	602	CLA	CHD-C1D	3.16	1.44	1.38
29	1r	314	CLA	CHC-C4B	3.16	1.46	1.39
30	06	606	CHL	CHB-C1B	3.16	1.46	1.39
35	1B	618	BCR	C23-C22	-3.16	1.39	1.45
29	1b	606	CLA	CHD-C4C	3.15	1.46	1.39
29	07	310	CLA	CHC-C4B	3.15	1.46	1.39
30	06	603	CHL	CHB-C1B	3.15	1.46	1.39
29	06	611	CLA	CHD-C1D	3.15	1.44	1.38
31	1N	316	LUT	C30-C29	3.15	1.40	1.35
29	1G	612	CLA	CHD-C4C	3.15	1.46	1.39
29	03	309	CLA	CHD-C1D	3.15	1.44	1.38
29	1s	311	CLA	CHD-C4C	3.15	1.46	1.39
29	04	309	CLA	CHC-C4B	3.15	1.46	1.39
30	06	605	CHL	CHB-C1B	3.15	1.46	1.39
29	1r	309	CLA	CHD-C4C	3.15	1.46	1.39
30	05	305	CHL	CHB-C1B	3.15	1.46	1.39
29	1R	310	CLA	CHD-C4C	3.15	1.46	1.39
30	05	306	CHL	CHB-C1B	3.15	1.46	1.39
29	1g	611	CLA	CHC-C4B	3.15	1.46	1.39
30	00	304	CHL	CHB-C1B	3.15	1.46	1.39
30	00	305	CHL	CHC-C4B	3.15	1.46	1.39
29	1R	308	CLA	CHD-C4C	3.15	1.46	1.39
30	1s	309	CHL	CHB-C1B	3.15	1.46	1.39
29	1D	405	CLA	CHC-C4B	3.15	1.46	1.39
29	1g	610	CLA	CHD-C1D	3.15	1.44	1.38
30	1r	306	CHL	CHB-C1B	3.15	1.46	1.39
29	1n	603	CLA	CHD-C4C	3.15	1.46	1.39
30	09	307	CHL	CHB-C1B	3.15	1.46	1.39
35	1b	620	BCR	C21-C22	3.15	1.40	1.35
29	1B	612	CLA	CHD-C1D	3.15	1.44	1.38
29	1d	407	CLA	CHC-C4B	3.15	1.46	1.39
30	05	315	CHL	CHB-C1B	3.15	1.46	1.39
29	00	303	CLA	CHD-C1D	3.15	1.44	1.38
29	1B	611	CLA	MG-NA	-3.14	1.98	2.06
29	1N	312	CLA	CHD-C4C	3.14	1.46	1.39
29	1b	609	CLA	CHD-C1D	3.14	1.44	1.38
29	02	613	CLA	CHC-C4B	3.14	1.46	1.39
30	05	313	CHL	CHB-C1B	3.14	1.46	1.39
29	06	607	CLA	CHD-C4C	3.14	1.46	1.39
30	1G	601	CHL	CHB-C1B	3.14	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	604	CLA	CHC-C4B	3.14	1.46	1.39
29	1a	406	CLA	CHD-C4C	3.14	1.46	1.39
30	1g	606	CHL	CHC-C4B	3.14	1.46	1.39
35	04	313	BCR	C8-C9	-3.14	1.39	1.45
29	1D	405	CLA	CHD-C1D	3.14	1.44	1.38
30	04	303	CHL	CHC-C4B	3.14	1.46	1.39
29	1N	313	CLA	CHD-C4C	3.14	1.46	1.39
29	1G	614	CLA	CHC-C4B	3.14	1.46	1.39
29	08	309	CLA	C4C-C3C	3.14	1.50	1.45
35	1B	617	BCR	C10-C9	3.14	1.39	1.35
35	1A	409	BCR	C8-C9	-3.14	1.39	1.45
29	09	301	CLA	C1C-C2C	3.14	1.50	1.44
29	1B	606	CLA	CHD-C1D	3.14	1.44	1.38
29	1s	313	CLA	CHD-C1D	3.14	1.44	1.38
30	08	305	CHL	CHB-C1B	3.13	1.46	1.39
29	08	308	CLA	CHD-C4C	3.13	1.46	1.39
29	03	307	CLA	CHD-C1D	3.13	1.44	1.38
29	1B	609	CLA	CHD-C4C	3.13	1.46	1.39
29	05	310	CLA	CHC-C4B	3.13	1.46	1.39
29	1D	402	CLA	CHD-C1D	3.13	1.44	1.38
35	1b	619	BCR	C23-C22	-3.13	1.39	1.45
29	1G	610	CLA	CHD-C1D	3.13	1.44	1.38
29	1c	511	CLA	CHC-C4B	3.13	1.46	1.39
29	01	309	CLA	OBD-CAD	3.13	1.27	1.22
29	1B	612	CLA	C4B-NB	-3.13	1.33	1.37
29	08	306	CLA	CHC-C4B	3.13	1.46	1.39
29	1B	610	CLA	CHC-C4B	3.13	1.46	1.39
29	1N	313	CLA	CHC-C4B	3.13	1.46	1.39
29	05	310	CLA	CHD-C1D	3.13	1.44	1.38
31	1g	615	LUT	C32-C33	-3.13	1.39	1.45
29	1c	506	CLA	CHC-C4B	3.13	1.46	1.39
29	1c	503	CLA	CHD-C4C	3.13	1.46	1.39
29	1g	603	CLA	CHC-C4B	3.13	1.46	1.39
29	1b	607	CLA	CHC-C4B	3.13	1.46	1.39
29	02	611	CLA	CHD-C4C	3.13	1.46	1.39
29	1S	312	CLA	CHD-C1D	3.13	1.44	1.38
30	01	302	CHL	CHB-C1B	3.13	1.46	1.39
29	1r	303	CLA	CHD-C4C	3.13	1.46	1.39
29	02	613	CLA	CHD-C4C	3.13	1.46	1.39
35	1a	409	BCR	C8-C9	-3.12	1.39	1.45
35	1a	409	BCR	C23-C22	-3.12	1.39	1.45
29	09	309	CLA	CHD-C1D	3.12	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1g	606	CHL	CHB-C1B	3.12	1.46	1.39
29	1c	514	CLA	C4B-NB	-3.12	1.33	1.37
29	1c	510	CLA	C3D-C2D	3.12	1.47	1.39
29	1B	612	CLA	CHC-C4B	3.12	1.46	1.39
29	09	303	CLA	CHD-C4C	3.12	1.46	1.39
29	03	308	CLA	CHC-C4B	3.12	1.46	1.39
29	05	309	CLA	CHD-C1D	3.12	1.44	1.38
29	04	307	CLA	CHC-C4B	3.12	1.46	1.39
29	07	307	CLA	CHC-C4B	3.12	1.46	1.39
30	03	302	CHL	CHB-C1B	3.12	1.46	1.39
29	01	310	CLA	CHD-C1D	3.12	1.44	1.38
29	1S	316	CLA	CHD-C4C	3.12	1.46	1.39
29	1B	609	CLA	CHD-C1D	3.12	1.44	1.38
29	1c	510	CLA	C1B-NB	-3.12	1.33	1.37
29	1c	513	CLA	C4B-NB	-3.12	1.33	1.37
30	1s	310	CHL	CHB-C1B	3.12	1.46	1.39
29	04	312	CLA	CHD-C1D	3.12	1.44	1.38
29	1c	506	CLA	CHD-C4C	3.12	1.46	1.39
29	02	613	CLA	CHD-C1D	3.12	1.44	1.38
29	04	309	CLA	C4B-NB	-3.12	1.34	1.37
29	09	302	CLA	C4B-NB	-3.12	1.34	1.37
29	1B	602	CLA	CHD-C4C	3.11	1.46	1.39
29	00	309	CLA	CHD-C1D	3.11	1.44	1.38
29	09	311	CLA	CHC-C4B	3.11	1.46	1.39
30	1g	605	CHL	CHB-C1B	3.11	1.46	1.39
29	08	307	CLA	CHD-C4C	3.11	1.46	1.39
29	1S	316	CLA	CHD-C1D	3.11	1.44	1.38
29	1s	307	CLA	CHD-C4C	3.11	1.46	1.39
29	05	301	CLA	C4B-NB	-3.11	1.34	1.37
30	1r	307	CHL	CHB-C1B	3.11	1.46	1.39
29	05	301	CLA	CHD-C1D	3.11	1.44	1.38
29	1S	310	CLA	C3B-C4B	3.11	1.50	1.42
29	1C	503	CLA	OBD-CAD	3.11	1.27	1.22
29	1b	615	CLA	OBD-CAD	3.11	1.27	1.22
29	1B	607	CLA	C3D-C2D	3.11	1.47	1.39
29	08	311	CLA	CHD-C1D	3.11	1.44	1.38
29	1s	316	CLA	CHC-C4B	3.11	1.46	1.39
29	1C	502	CLA	C4B-NB	-3.11	1.34	1.37
30	08	303	CHL	CHB-C1B	3.11	1.46	1.39
29	08	310	CLA	CHD-C4C	3.11	1.46	1.39
29	1R	312	CLA	CHD-C4C	3.11	1.46	1.39
29	1N	304	CLA	CHD-C1D	3.11	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	501	CLA	C3D-C2D	3.11	1.47	1.39
29	1B	601	CLA	CHD-C1D	3.11	1.44	1.38
31	1N	316	LUT	C8-C9	-3.11	1.39	1.45
30	1S	308	CHL	CHB-C1B	3.11	1.46	1.39
29	01	307	CLA	CHB-C1B	3.10	1.46	1.39
29	1D	404	CLA	OBD-CAD	3.10	1.27	1.22
29	1C	503	CLA	CHC-C4B	3.10	1.46	1.39
29	01	309	CLA	CHB-C1B	3.10	1.46	1.39
35	1b	620	BCR	C10-C9	3.10	1.39	1.35
31	1g	615	LUT	C8-C9	-3.10	1.39	1.45
29	1s	312	CLA	C4B-NB	-3.10	1.34	1.37
29	08	308	CLA	CHD-C1D	3.10	1.44	1.38
29	1B	610	CLA	C1B-NB	-3.10	1.34	1.37
29	1N	304	CLA	CHC-C4B	3.10	1.46	1.39
29	02	610	CLA	CHD-C4C	3.10	1.46	1.39
29	03	307	CLA	CHD-C4C	3.10	1.46	1.39
29	07	302	CLA	MG-NC	3.10	2.13	2.06
29	1g	612	CLA	C4B-NB	-3.10	1.34	1.37
29	1G	613	CLA	CHD-C4C	3.10	1.46	1.39
29	1c	508	CLA	C1B-NB	-3.10	1.34	1.37
29	1N	304	CLA	CHD-C4C	3.10	1.46	1.39
30	03	303	CHL	CHC-C4B	3.10	1.46	1.39
29	1R	302	CLA	CHD-C4C	3.10	1.46	1.39
29	1d	403	CLA	CHD-C4C	3.10	1.46	1.39
29	05	312	CLA	C3D-C2D	3.10	1.47	1.39
29	1g	612	CLA	CHC-C4B	3.10	1.46	1.39
29	1N	313	CLA	CHD-C1D	3.10	1.44	1.38
29	1B	613	CLA	CHC-C4B	3.10	1.46	1.39
29	1n	613	CLA	C4B-NB	-3.09	1.34	1.37
30	1r	313	CHL	CHB-C1B	3.09	1.46	1.39
29	05	310	CLA	C4B-NB	-3.09	1.34	1.37
29	09	310	CLA	CHD-C1D	3.09	1.44	1.38
29	1G	603	CLA	CHD-C1D	3.09	1.44	1.38
30	05	304	CHL	C1B-NB	-3.09	1.34	1.37
29	02	612	CLA	CHD-C4C	3.09	1.46	1.39
29	1N	311	CLA	C4B-NB	-3.09	1.34	1.37
29	1r	311	CLA	CHC-C4B	3.09	1.46	1.39
29	1r	311	CLA	CHD-C4C	3.09	1.46	1.39
38	1A	406	PHO	C4D-CHA	3.09	1.44	1.39
30	1S	307	CHL	CHB-C1B	3.09	1.46	1.39
29	1C	501	CLA	CHC-C4B	3.09	1.46	1.39
29	1n	611	CLA	CHD-C1D	3.09	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1R	308	CLA	C3B-C4B	3.09	1.50	1.42
35	1B	618	BCR	C8-C9	-3.09	1.39	1.45
29	1B	605	CLA	CHD-C4C	3.09	1.46	1.39
29	1S	315	CLA	CHD-C1D	3.09	1.44	1.38
35	1b	618	BCR	C12-C13	-3.09	1.39	1.45
29	01	308	CLA	CHD-C4C	3.09	1.46	1.39
29	1s	313	CLA	CHD-C4C	3.09	1.46	1.39
29	1n	603	CLA	CHC-C4B	3.09	1.46	1.39
30	04	302	CHL	CHB-C1B	3.09	1.46	1.39
29	04	311	CLA	CHD-C1D	3.08	1.44	1.38
29	1n	603	CLA	C3D-C2D	3.08	1.47	1.39
29	1g	610	CLA	CHD-C4C	3.08	1.46	1.39
29	1d	407	CLA	CHD-C1D	3.08	1.44	1.38
29	1c	507	CLA	CHD-C4C	3.08	1.46	1.39
29	1g	602	CLA	C4B-NB	-3.08	1.34	1.37
29	00	309	CLA	CHD-C4C	3.08	1.46	1.39
29	1b	615	CLA	C4B-NB	-3.08	1.34	1.37
29	08	311	CLA	CHD-C4C	3.08	1.46	1.39
29	1s	315	CLA	CHD-C4C	3.08	1.46	1.39
30	07	305	CHL	CHB-C1B	3.08	1.46	1.39
29	1r	303	CLA	CHD-C1D	3.08	1.44	1.38
29	04	312	CLA	CHD-C4C	3.08	1.46	1.39
31	1s	317	LUT	C8-C9	-3.08	1.39	1.45
29	08	309	CLA	CHC-C4B	3.08	1.46	1.39
29	1S	313	CLA	CHD-C4C	3.08	1.46	1.39
29	1R	308	CLA	C3D-C2D	3.08	1.47	1.39
30	03	305	CHL	CHB-C1B	3.07	1.46	1.39
29	07	308	CLA	CHD-C4C	3.07	1.46	1.39
29	1B	613	CLA	C4B-NB	-3.07	1.34	1.37
29	1C	509	CLA	CHC-C4B	3.07	1.46	1.39
29	07	307	CLA	CHD-C4C	3.07	1.46	1.39
29	09	310	CLA	CHD-C4C	3.07	1.46	1.39
29	1n	602	CLA	CHD-C4C	3.07	1.46	1.39
29	1C	510	CLA	CHD-C1D	3.07	1.44	1.38
35	1b	619	BCR	C8-C9	-3.07	1.39	1.45
30	1N	310	CHL	CHB-C1B	3.07	1.46	1.39
30	09	305	CHL	CHB-C1B	3.07	1.46	1.39
29	1S	315	CLA	CHD-C4C	3.07	1.46	1.39
29	1s	316	CLA	C1D-C2D	3.07	1.51	1.45
29	00	302	CLA	CHD-C1D	3.07	1.44	1.38
29	05	309	CLA	CHD-C4C	3.07	1.46	1.39
29	1B	615	CLA	CHD-C4C	3.07	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	04	301	CHL	CHB-C1B	3.07	1.46	1.39
29	1g	603	CLA	CHD-C4C	3.07	1.46	1.39
30	03	311	CHL	CHB-C1B	3.06	1.46	1.39
29	1B	607	CLA	CHD-C4C	3.06	1.46	1.39
29	1s	306	CLA	CHD-C1D	3.06	1.44	1.38
29	00	311	CLA	C4B-NB	-3.06	1.34	1.37
31	09	313	LUT	C8-C9	-3.06	1.39	1.45
29	1n	613	CLA	CHB-C1B	3.06	1.46	1.39
29	1s	314	CLA	CHD-C1D	3.06	1.44	1.38
29	1S	306	CLA	CHD-C4C	3.06	1.46	1.39
30	08	302	CHL	CHB-C1B	3.06	1.46	1.39
31	1S	317	LUT	C8-C9	-3.06	1.39	1.45
29	07	301	CLA	CHD-C4C	3.06	1.46	1.39
29	02	609	CLA	CHD-C4C	3.06	1.46	1.39
29	1r	314	CLA	CHD-C4C	3.06	1.46	1.39
29	01	307	CLA	C4B-NB	-3.06	1.34	1.37
30	1n	605	CHL	CHB-C1B	3.06	1.46	1.39
29	00	301	CLA	C3B-C4B	3.06	1.49	1.42
29	1R	311	CLA	CHD-C4C	3.06	1.46	1.39
29	1b	608	CLA	CHD-C4C	3.06	1.46	1.39
35	1i	101	BCR	C21-C22	3.06	1.39	1.35
29	09	309	CLA	CHD-C4C	3.06	1.46	1.39
29	1C	512	CLA	CHD-C1D	3.06	1.44	1.38
29	01	310	CLA	CHD-C4C	3.06	1.46	1.39
29	1b	611	CLA	CHD-C1D	3.06	1.44	1.38
29	01	301	CLA	CHB-C1B	3.05	1.46	1.39
29	1b	616	CLA	CHC-C4B	3.05	1.46	1.39
29	1R	312	CLA	CHD-C1D	3.05	1.44	1.38
29	02	602	CLA	CHD-C4C	3.05	1.46	1.39
29	1C	512	CLA	CHD-C4C	3.05	1.46	1.39
29	1B	611	CLA	CHC-C4B	3.05	1.46	1.39
29	09	301	CLA	C4B-NB	-3.05	1.34	1.37
29	1c	506	CLA	C3D-C2D	3.05	1.47	1.39
29	05	310	CLA	C3D-C2D	3.05	1.47	1.39
29	1S	310	CLA	C3D-C2D	3.05	1.47	1.39
29	1g	604	CLA	C3D-C2D	3.05	1.47	1.39
29	07	301	CLA	CHD-C1D	3.05	1.44	1.38
29	09	302	CLA	CHD-C4C	3.05	1.46	1.39
30	01	305	CHL	CHB-C1B	3.05	1.46	1.39
30	02	605	CHL	CHB-C1B	3.05	1.46	1.39
29	1B	616	CLA	CHD-C1D	3.05	1.44	1.38
29	02	608	CLA	CHD-C4C	3.05	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	05	310	CLA	CHD-C4C	3.05	1.46	1.39
29	1S	314	CLA	C3D-C2D	3.05	1.47	1.39
29	1G	614	CLA	CHD-C1D	3.05	1.44	1.38
29	1S	306	CLA	CHD-C1D	3.05	1.44	1.38
29	1D	402	CLA	CHD-C4C	3.05	1.46	1.39
30	1G	608	CHL	CHB-C1B	3.04	1.46	1.39
30	1N	309	CHL	CHB-C1B	3.04	1.46	1.39
29	1R	311	CLA	CHD-C1D	3.04	1.44	1.38
29	1C	504	CLA	CHD-C4C	3.04	1.46	1.39
29	1n	604	CLA	C3D-C2D	3.04	1.47	1.39
30	01	304	CHL	CHB-C1B	3.04	1.46	1.39
30	1R	313	CHL	CHB-C1B	3.04	1.46	1.39
29	04	306	CLA	C4B-NB	-3.04	1.34	1.37
29	01	308	CLA	CHC-C4B	3.04	1.46	1.39
29	1d	407	CLA	CHD-C4C	3.04	1.46	1.39
29	1g	612	CLA	CHD-C1D	3.04	1.44	1.38
29	00	302	CLA	CHD-C4C	3.04	1.46	1.39
29	07	308	CLA	CHD-C1D	3.04	1.44	1.38
29	1R	314	CLA	C3B-C4B	3.04	1.49	1.42
29	1n	610	CLA	CHB-C4A	-3.04	1.30	1.37
29	06	611	CLA	CHD-C4C	3.04	1.46	1.39
29	01	312	CLA	C3D-C2D	3.04	1.47	1.39
29	1r	310	CLA	CHD-C4C	3.04	1.46	1.39
29	1C	506	CLA	C4B-NB	-3.04	1.34	1.37
29	1B	601	CLA	CHD-C4C	3.04	1.46	1.39
29	03	301	CLA	CHD-C1D	3.04	1.44	1.38
29	05	303	CLA	C3D-C2D	3.04	1.47	1.39
30	1R	304	CHL	CHB-C1B	3.04	1.46	1.39
30	1g	608	CHL	CHB-C1B	3.04	1.46	1.39
29	07	312	CLA	CHD-C1D	3.04	1.44	1.38
30	02	604	CHL	C1D-C2D	3.04	1.51	1.45
29	1c	511	CLA	C4B-NB	-3.03	1.34	1.37
29	1n	613	CLA	CHC-C4B	3.03	1.46	1.39
29	07	302	CLA	C1D-C2D	3.03	1.51	1.45
29	08	306	CLA	CHD-C4C	3.03	1.46	1.39
35	1b	618	BCR	C19-C18	-3.03	1.39	1.45
35	1B	630	BCR	C17-C18	3.03	1.39	1.35
29	01	308	CLA	CHD-C1D	3.03	1.44	1.38
29	1S	313	CLA	CHD-C1D	3.03	1.44	1.38
29	1s	315	CLA	C3D-C2D	3.03	1.47	1.39
29	1B	612	CLA	CHD-C4C	3.03	1.46	1.39
29	1B	615	CLA	CHD-C1D	3.03	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1G	611	CLA	CHD-C4C	3.03	1.46	1.39
29	1r	302	CLA	CHD-C4C	3.03	1.46	1.39
29	1R	302	CLA	CHD-C1D	3.03	1.44	1.38
29	08	312	CLA	C3D-C2D	3.03	1.47	1.39
29	08	309	CLA	C3D-C2D	3.03	1.47	1.39
29	1R	308	CLA	C1B-NB	-3.03	1.34	1.37
29	1b	603	CLA	CHD-C4C	3.02	1.46	1.39
29	1c	505	CLA	CHD-C4C	3.02	1.46	1.39
29	1n	612	CLA	CHC-C4B	3.02	1.46	1.39
29	1S	311	CLA	CHD-C1D	3.02	1.44	1.38
29	1s	305	CLA	C4B-NB	-3.02	1.34	1.37
35	1Z	101	BCR	C23-C22	-3.02	1.39	1.45
30	1n	608	CHL	CHB-C1B	3.02	1.46	1.39
31	00	313	LUT	C8-C9	-3.02	1.39	1.45
30	09	306	CHL	CHB-C1B	3.02	1.46	1.39
29	02	608	CLA	CHD-C1D	3.02	1.44	1.38
29	08	310	CLA	C3B-C4B	3.02	1.49	1.42
29	00	310	CLA	CHD-C4C	3.02	1.46	1.39
29	1S	311	CLA	CHD-C4C	3.02	1.46	1.39
29	02	614	CLA	CHD-C1D	3.02	1.44	1.38
35	1j	101	BCR	C8-C9	-3.02	1.39	1.45
29	1n	612	CLA	C4B-NB	-3.02	1.34	1.37
29	1s	312	CLA	C3D-C2D	3.02	1.47	1.39
29	1r	311	CLA	C4B-NB	-3.02	1.34	1.37
29	09	302	CLA	CHC-C4B	3.02	1.46	1.39
29	1b	602	CLA	C3D-C2D	3.02	1.47	1.39
29	1d	403	CLA	MG-NA	-3.02	1.99	2.06
29	1G	611	CLA	CHD-C1D	3.02	1.44	1.38
29	1n	610	CLA	MG-NA	-3.02	1.99	2.06
29	1G	612	CLA	C3D-C2D	3.02	1.47	1.39
29	1r	302	CLA	CHD-C1D	3.01	1.44	1.38
35	1Z	102	BCR	C8-C9	-3.01	1.39	1.45
35	1k	102	BCR	C23-C22	-3.01	1.39	1.45
29	1R	302	CLA	C4B-NB	-3.01	1.34	1.37
29	1s	316	CLA	C4B-NB	-3.01	1.34	1.37
29	1B	608	CLA	CHD-C1D	3.01	1.44	1.38
29	04	311	CLA	CHD-C4C	3.01	1.46	1.39
29	1D	404	CLA	CHC-C4B	3.01	1.46	1.39
30	1G	606	CHL	CHB-C1B	3.01	1.46	1.39
35	1Z	101	BCR	C8-C9	-3.01	1.39	1.45
30	1G	609	CHL	CHB-C1B	3.01	1.46	1.39
29	03	312	CLA	CHD-C1D	3.01	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	1B	630	BCR	C8-C9	-3.01	1.39	1.45
35	1I	102	BCR	C23-C22	-3.01	1.39	1.45
29	01	307	CLA	C3D-C2D	3.01	1.47	1.39
29	1d	403	CLA	CHD-C1D	3.01	1.44	1.38
29	1S	316	CLA	C3D-C2D	3.01	1.47	1.39
30	1R	303	CHL	C3D-C2D	3.01	1.47	1.39
29	1S	312	CLA	CHD-C4C	3.01	1.46	1.39
29	1s	315	CLA	CHD-C1D	3.01	1.44	1.38
29	1B	601	CLA	CHB-C1B	3.01	1.46	1.39
29	1b	604	CLA	CHD-C1D	3.01	1.44	1.38
29	1r	304	CLA	CHD-C4C	3.01	1.46	1.39
29	1a	406	CLA	CHD-C1D	3.01	1.44	1.38
29	04	314	CLA	C3B-C4B	3.01	1.49	1.42
29	1C	505	CLA	CHC-C4B	3.01	1.46	1.39
29	09	309	CLA	C3D-C2D	3.01	1.47	1.39
29	02	608	CLA	C3D-C2D	3.01	1.47	1.39
29	1b	615	CLA	C3D-C2D	3.01	1.47	1.39
29	07	310	CLA	C3D-C2D	3.01	1.47	1.39
29	1B	605	CLA	C3D-C2D	3.01	1.47	1.39
29	07	312	CLA	CHD-C4C	3.00	1.46	1.39
29	1r	304	CLA	CHD-C1D	3.00	1.44	1.38
30	05	304	CHL	C3D-C2D	3.00	1.47	1.39
29	1C	510	CLA	CHD-C4C	3.00	1.46	1.39
29	1c	505	CLA	CHC-C4B	3.00	1.46	1.39
29	1b	609	CLA	CHC-C4B	3.00	1.46	1.39
29	1b	617	CLA	C3D-C2D	3.00	1.47	1.39
29	1B	603	CLA	CHC-C4B	3.00	1.46	1.39
29	1B	609	CLA	C3D-C2D	3.00	1.47	1.39
30	1N	306	CHL	CHB-C1B	3.00	1.46	1.39
29	1g	603	CLA	C4B-NB	-3.00	1.34	1.37
29	1C	507	CLA	CHD-C4C	3.00	1.46	1.39
30	1g	607	CHL	C3D-C2D	3.00	1.47	1.39
30	1s	304	CHL	C3D-C2D	3.00	1.47	1.39
29	1N	305	CLA	CHC-C4B	3.00	1.46	1.39
29	1n	614	CLA	C3D-C2D	3.00	1.47	1.39
29	1C	503	CLA	CHD-C4C	3.00	1.46	1.39
29	1d	406	CLA	CHD-C4C	3.00	1.46	1.39
29	05	302	CLA	C4B-NB	-3.00	1.34	1.37
29	1C	510	CLA	C4B-NB	-3.00	1.34	1.37
29	1s	307	CLA	C3D-C2D	3.00	1.47	1.39
29	1g	610	CLA	C3D-C2D	3.00	1.47	1.39
30	1n	607	CHL	CHB-C1B	3.00	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	03	308	CLA	C3D-C2D	3.00	1.47	1.39
29	08	306	CLA	CHD-C1D	2.99	1.44	1.38
29	02	611	CLA	C3D-C2D	2.99	1.47	1.39
29	1g	610	CLA	CHC-C4B	2.99	1.46	1.39
29	07	301	CLA	C3D-C2D	2.99	1.47	1.39
35	1A	409	BCR	C23-C22	-2.99	1.39	1.45
29	1S	311	CLA	C3B-C4B	2.99	1.49	1.42
29	1s	307	CLA	CHC-C4B	2.99	1.46	1.39
29	07	302	CLA	C3A-C2A	-2.99	1.51	1.54
29	1g	603	CLA	CHD-C1D	2.99	1.44	1.38
35	1J	101	BCR	C8-C9	-2.99	1.39	1.45
29	1d	407	CLA	C3B-C4B	2.99	1.49	1.42
29	1r	310	CLA	C3D-C2D	2.99	1.47	1.39
35	04	313	BCR	C23-C22	-2.99	1.39	1.45
30	1N	308	CHL	CHB-C1B	2.99	1.46	1.39
30	05	315	CHL	C1D-C2D	2.99	1.51	1.45
29	06	602	CLA	CHD-C4C	2.99	1.46	1.39
29	1N	314	CLA	MG-NA	-2.98	1.99	2.06
29	08	308	CLA	C3D-C2D	2.98	1.47	1.39
29	1B	606	CLA	CHC-C4B	2.98	1.46	1.39
30	06	601	CHL	C3D-C2D	2.98	1.47	1.39
30	1n	601	CHL	C1D-C2D	2.98	1.51	1.45
29	1b	605	CLA	CHD-C4C	2.98	1.46	1.39
29	00	312	CLA	C4B-NB	-2.98	1.34	1.37
29	1b	608	CLA	C4B-NB	-2.98	1.34	1.37
29	1G	604	CLA	CHC-C4B	2.98	1.46	1.39
29	1G	604	CLA	C3D-C2D	2.98	1.47	1.39
30	04	305	CHL	C1D-C2D	2.98	1.51	1.45
29	1G	603	CLA	C3D-C2D	2.98	1.47	1.39
30	1S	304	CHL	C1D-C2D	2.98	1.51	1.45
30	1G	609	CHL	C3D-C2D	2.98	1.47	1.39
29	1c	514	CLA	C3D-C2D	2.98	1.47	1.39
35	1B	617	BCR	C17-C18	2.98	1.39	1.35
29	1n	612	CLA	C3D-C2D	2.98	1.47	1.39
30	1G	607	CHL	C1D-C2D	2.98	1.51	1.45
35	1k	102	BCR	C8-C9	-2.97	1.39	1.45
29	1n	611	CLA	CHD-C4C	2.97	1.46	1.39
29	1C	506	CLA	CHD-C4C	2.97	1.46	1.39
29	1G	602	CLA	C3D-C2D	2.97	1.47	1.39
30	1N	310	CHL	C1D-C2D	2.97	1.51	1.45
29	03	312	CLA	CHD-C4C	2.97	1.46	1.39
30	06	604	CHL	C1D-C2D	2.97	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	09	303	CLA	C3D-C2D	2.97	1.47	1.39
29	1r	312	CLA	C3D-C2D	2.97	1.47	1.39
29	1A	404	CLA	MG-NA	-2.97	1.99	2.06
29	08	310	CLA	C3D-C2D	2.97	1.47	1.39
29	1c	505	CLA	CHD-C1D	2.97	1.44	1.38
29	1N	304	CLA	C4B-NB	-2.97	1.34	1.37
29	03	306	CLA	CHD-C4C	2.97	1.46	1.39
29	1g	611	CLA	C3D-C2D	2.97	1.47	1.39
30	1g	601	CHL	C1D-C2D	2.97	1.51	1.45
29	1b	612	CLA	C1B-NB	-2.97	1.34	1.37
35	1B	619	BCR	C8-C9	-2.97	1.39	1.45
29	04	307	CLA	C3D-C2D	2.97	1.47	1.39
30	1N	309	CHL	C3B-C4B	2.97	1.49	1.42
30	1R	313	CHL	C1D-C2D	2.97	1.51	1.45
29	1C	505	CLA	CHD-C4C	2.97	1.46	1.39
29	06	611	CLA	C3B-C4B	2.96	1.49	1.42
29	1S	306	CLA	C3D-C2D	2.96	1.47	1.39
29	07	307	CLA	C3D-C2D	2.96	1.47	1.39
29	1B	603	CLA	CHD-C4C	2.96	1.46	1.39
31	03	313	LUT	C8-C9	-2.96	1.39	1.45
30	06	606	CHL	C3D-C2D	2.96	1.47	1.39
29	1C	513	CLA	C3D-C2D	2.96	1.47	1.39
29	1R	310	CLA	C3D-C2D	2.96	1.47	1.39
29	1G	611	CLA	CHC-C4B	2.96	1.46	1.39
29	00	310	CLA	CHD-C1D	2.96	1.44	1.38
30	04	304	CHL	C1D-C2D	2.96	1.51	1.45
29	09	301	CLA	C3B-C4B	2.96	1.49	1.42
29	1S	313	CLA	C4B-NB	-2.96	1.34	1.37
30	04	303	CHL	CHB-C1B	2.96	1.46	1.39
29	1n	612	CLA	CHD-C1D	2.96	1.44	1.38
29	01	309	CLA	C3D-C2D	2.96	1.47	1.39
29	1s	316	CLA	C3D-C2D	2.96	1.47	1.39
29	1G	612	CLA	CHC-C4B	2.96	1.46	1.39
29	1b	604	CLA	CHD-C4C	2.96	1.46	1.39
29	01	311	CLA	C4B-NB	-2.96	1.34	1.37
29	1c	507	CLA	C4B-NB	-2.96	1.34	1.37
29	05	301	CLA	C3D-C2D	2.96	1.47	1.39
29	1c	503	CLA	C3D-C2D	2.96	1.47	1.39
29	1c	514	CLA	C1B-NB	-2.96	1.34	1.37
29	1a	408	CLA	C3D-C2D	2.96	1.47	1.39
29	1R	314	CLA	C1D-C2D	2.96	1.51	1.45
29	1C	510	CLA	CHC-C4B	2.96	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	07	313	LUT	C8-C9	-2.96	1.39	1.45
30	1S	307	CHL	C1D-C2D	2.96	1.51	1.45
29	05	311	CLA	C3B-C4B	2.96	1.49	1.42
30	1n	601	CHL	CHB-C1B	2.96	1.46	1.39
35	1b	601	BCR	C8-C9	-2.95	1.39	1.45
29	05	308	CLA	C3D-C2D	2.95	1.47	1.39
29	1N	305	CLA	C3D-C2D	2.95	1.47	1.39
29	09	311	CLA	CHD-C1D	2.95	1.44	1.38
29	1c	515	CLA	CHD-C1D	2.95	1.44	1.38
29	1C	509	CLA	C1B-NB	-2.95	1.34	1.37
29	1b	606	CLA	CHD-C1D	2.95	1.44	1.38
29	1b	611	CLA	CHD-C4C	2.95	1.46	1.39
29	1r	303	CLA	C3D-C2D	2.95	1.47	1.39
30	01	305	CHL	C3D-C2D	2.95	1.47	1.39
29	1B	610	CLA	C4B-NB	-2.95	1.34	1.37
29	02	613	CLA	C3D-C2D	2.95	1.47	1.39
30	1S	304	CHL	CHB-C1B	2.95	1.46	1.39
29	1a	405	CLA	C3B-C4B	2.95	1.49	1.42
29	02	612	CLA	CHC-C4B	2.95	1.46	1.39
30	01	306	CHL	C1D-C2D	2.95	1.51	1.45
29	1G	602	CLA	OBD-CAD	2.95	1.27	1.22
29	1D	404	CLA	C4B-NB	-2.95	1.34	1.37
29	00	303	CLA	C3D-C2D	2.95	1.47	1.39
29	1b	616	CLA	C4B-NB	-2.95	1.34	1.37
29	1B	603	CLA	CHD-C1D	2.95	1.44	1.38
29	08	307	CLA	C3D-C2D	2.95	1.47	1.39
29	1N	311	CLA	C3D-C2D	2.94	1.47	1.39
30	02	606	CHL	C1D-C2D	2.94	1.51	1.45
29	07	302	CLA	C3D-C2D	2.94	1.47	1.39
30	09	308	CHL	C1D-C2D	2.94	1.51	1.45
29	03	306	CLA	C3B-C4B	2.94	1.49	1.42
29	06	607	CLA	C3D-C2D	2.94	1.47	1.39
29	1C	503	CLA	CHD-C1D	2.94	1.44	1.38
29	01	308	CLA	C3D-C2D	2.94	1.47	1.39
29	02	610	CLA	C3B-C4B	2.94	1.49	1.42
29	1C	509	CLA	CHD-C4C	2.94	1.45	1.39
29	1R	306	CLA	C3D-C2D	2.94	1.47	1.39
30	05	315	CHL	C3D-C2D	2.94	1.47	1.39
29	1C	505	CLA	C1B-NB	-2.94	1.34	1.37
29	1B	612	CLA	C3D-C2D	2.94	1.47	1.39
30	06	603	CHL	C1D-C2D	2.94	1.51	1.45
29	1S	306	CLA	CHC-C4B	2.94	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1D	401	CLA	C4B-NB	-2.94	1.34	1.37
29	1r	311	CLA	C3D-C2D	2.94	1.47	1.39
30	01	306	CHL	C3D-C2D	2.94	1.47	1.39
29	1B	607	CLA	C4B-NB	-2.94	1.34	1.37
29	03	309	CLA	C3B-C4B	2.94	1.49	1.42
30	1s	304	CHL	CHB-C1B	2.94	1.46	1.39
29	1G	610	CLA	C3D-C2D	2.94	1.47	1.39
35	1B	617	BCR	C14-C13	2.94	1.39	1.35
29	06	610	CLA	C3D-C2D	2.94	1.47	1.39
30	03	311	CHL	C1D-C2D	2.94	1.51	1.45
29	1b	616	CLA	CHD-C1D	2.94	1.44	1.38
29	1s	314	CLA	CHD-C4C	2.94	1.45	1.39
29	1g	603	CLA	C3D-C2D	2.94	1.47	1.39
29	1D	404	CLA	C1B-NB	-2.94	1.34	1.37
29	1s	306	CLA	CHD-C4C	2.94	1.45	1.39
29	1D	401	CLA	CHC-C4B	2.94	1.46	1.39
29	09	311	CLA	CHD-C4C	2.94	1.45	1.39
29	06	611	CLA	C3D-C2D	2.94	1.47	1.39
29	03	301	CLA	CHD-C4C	2.93	1.45	1.39
29	07	307	CLA	C4B-NB	-2.93	1.34	1.37
29	08	306	CLA	C3D-C2D	2.93	1.47	1.39
29	02	610	CLA	C3D-C2D	2.93	1.47	1.39
30	00	307	CHL	CHB-C1B	2.93	1.46	1.39
30	04	301	CHL	C3D-C2D	2.93	1.47	1.39
29	01	311	CLA	CHD-C1D	2.93	1.44	1.38
30	06	605	CHL	C1D-C2D	2.93	1.51	1.45
29	1s	315	CLA	CHC-C4B	2.93	1.46	1.39
29	1b	616	CLA	CHD-C4C	2.93	1.45	1.39
29	00	312	CLA	C3D-C2D	2.93	1.47	1.39
30	07	304	CHL	C1D-C2D	2.93	1.51	1.45
30	08	305	CHL	C1D-C2D	2.93	1.51	1.45
29	1D	404	CLA	CHD-C4C	2.93	1.45	1.39
29	1d	406	CLA	CHD-C1D	2.93	1.44	1.38
30	1R	305	CHL	C1D-C2D	2.93	1.51	1.45
29	03	301	CLA	C4B-NB	-2.93	1.34	1.37
29	00	302	CLA	C3B-C4B	2.93	1.49	1.42
30	08	304	CHL	C3D-C2D	2.93	1.47	1.39
30	01	304	CHL	C3B-C4B	2.93	1.49	1.42
29	1N	313	CLA	C4B-NB	-2.93	1.34	1.37
30	04	302	CHL	C3D-C2D	2.93	1.47	1.39
29	1D	405	CLA	C3D-C2D	2.93	1.47	1.39
29	02	614	CLA	C3D-C2D	2.93	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1G	607	CHL	C3D-C2D	2.93	1.47	1.39
29	04	310	CLA	C1D-C2D	2.93	1.51	1.45
29	1N	313	CLA	C3D-C2D	2.93	1.47	1.39
31	1g	615	LUT	C28-C29	-2.93	1.39	1.45
29	06	609	CLA	C3D-C2D	2.93	1.47	1.39
29	01	311	CLA	CHD-C4C	2.93	1.45	1.39
29	1s	313	CLA	C3D-C2D	2.93	1.47	1.39
29	1B	608	CLA	CHC-C4B	2.92	1.46	1.39
30	02	603	CHL	C1D-C2D	2.92	1.51	1.45
29	1B	601	CLA	C3D-C2D	2.92	1.47	1.39
29	1c	513	CLA	CHC-C4B	2.92	1.46	1.39
29	1D	402	CLA	C3D-C2D	2.92	1.47	1.39
29	1C	509	CLA	C4B-NB	-2.92	1.34	1.37
29	1N	304	CLA	C3D-C2D	2.92	1.47	1.39
30	00	304	CHL	C1D-C2D	2.92	1.51	1.45
30	1N	306	CHL	C1D-C2D	2.92	1.51	1.45
30	02	606	CHL	C3D-C2D	2.92	1.47	1.39
29	1S	314	CLA	C4B-NB	-2.92	1.34	1.37
30	06	601	CHL	C1D-C2D	2.92	1.51	1.45
30	1g	607	CHL	CHB-C1B	2.92	1.46	1.39
30	02	601	CHL	C1D-C2D	2.92	1.51	1.45
29	02	612	CLA	CHD-C1D	2.92	1.44	1.38
29	1n	602	CLA	C3D-C2D	2.92	1.47	1.39
29	03	312	CLA	C4B-NB	-2.92	1.34	1.37
29	1b	608	CLA	C3D-C2D	2.92	1.47	1.39
29	1G	614	CLA	CHD-C4C	2.92	1.45	1.39
29	00	318	CLA	C3D-C2D	2.92	1.47	1.39
29	1g	613	CLA	C3D-C2D	2.92	1.47	1.39
29	1r	314	CLA	C3D-C2D	2.92	1.47	1.39
29	1b	615	CLA	C1B-NB	-2.92	1.34	1.37
29	1n	604	CLA	CHC-C4B	2.92	1.46	1.39
30	1s	310	CHL	C3D-C2D	2.92	1.47	1.39
29	1b	612	CLA	C3D-C2D	2.92	1.47	1.39
29	1a	406	CLA	C3D-C2D	2.92	1.47	1.39
30	06	603	CHL	C3D-C2D	2.92	1.47	1.39
29	1g	612	CLA	CHD-C4C	2.92	1.45	1.39
30	06	605	CHL	C3D-C2D	2.92	1.47	1.39
30	1r	313	CHL	C3D-C2D	2.92	1.47	1.39
31	01	314	LUT	C8-C9	-2.92	1.39	1.45
29	00	309	CLA	C3D-C2D	2.92	1.47	1.39
29	1c	513	CLA	CHD-C4C	2.92	1.45	1.39
30	01	302	CHL	C1D-C2D	2.91	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	06	608	CLA	C3D-C2D	2.91	1.47	1.39
29	1g	612	CLA	C3D-C2D	2.91	1.47	1.39
35	1H	101	BCR	C8-C9	-2.91	1.39	1.45
29	01	308	CLA	C4B-NB	-2.91	1.34	1.37
30	08	301	CHL	C3D-C2D	2.91	1.47	1.39
30	08	305	CHL	C3D-C2D	2.91	1.47	1.39
29	1b	617	CLA	CHC-C4B	2.91	1.45	1.39
35	1b	620	BCR	C12-C13	-2.91	1.39	1.45
29	1b	605	CLA	C4B-NB	-2.91	1.34	1.37
29	02	612	CLA	MG-NA	-2.91	1.99	2.06
29	1c	504	CLA	CHD-C1D	2.91	1.44	1.38
30	1N	306	CHL	C3D-C2D	2.91	1.47	1.39
30	1N	310	CHL	C3D-C2D	2.91	1.47	1.39
29	1S	306	CLA	C4B-NB	-2.91	1.34	1.37
29	07	309	CLA	C1D-C2D	2.91	1.51	1.45
30	1g	601	CHL	C3D-C2D	2.91	1.47	1.39
29	1c	513	CLA	CHD-C1D	2.91	1.44	1.38
29	1R	311	CLA	C3B-C4B	2.91	1.49	1.42
29	05	312	CLA	CHB-C1B	2.91	1.45	1.39
29	1a	408	CLA	CHD-C4C	2.91	1.45	1.39
31	1r	315	LUT	C8-C9	-2.91	1.39	1.45
29	01	313	CLA	C3D-C2D	2.91	1.47	1.39
45	1E	103	HEM	C1C-C2C	-2.91	1.39	1.45
29	1G	602	CLA	CHD-C1D	2.91	1.44	1.38
30	08	301	CHL	C1D-C2D	2.91	1.51	1.45
29	1G	610	CLA	C4B-NB	-2.91	1.34	1.37
30	03	302	CHL	C1D-C2D	2.91	1.51	1.45
31	1R	315	LUT	C8-C9	-2.91	1.39	1.45
29	1N	315	CLA	C3D-C2D	2.91	1.47	1.39
29	1B	616	CLA	CHC-C4B	2.91	1.45	1.39
29	1C	509	CLA	CHD-C1D	2.91	1.44	1.38
30	04	302	CHL	C1D-C2D	2.91	1.51	1.45
29	1A	404	CLA	C3B-C4B	2.91	1.49	1.42
30	1n	601	CHL	C3B-C4B	2.91	1.49	1.42
29	1S	305	CLA	C1C-C2C	2.91	1.50	1.44
29	1c	511	CLA	CHD-C1D	2.90	1.44	1.38
30	1r	313	CHL	C1D-C2D	2.90	1.51	1.45
30	03	302	CHL	C3D-C2D	2.90	1.47	1.39
29	1a	408	CLA	CHD-C1D	2.90	1.44	1.38
29	01	301	CLA	C4B-NB	-2.90	1.34	1.37
30	08	302	CHL	C1D-C2D	2.90	1.51	1.45
29	1S	313	CLA	C1B-C2B	2.90	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	08	306	CLA	C4B-NB	-2.90	1.34	1.37
29	1b	617	CLA	OBD-CAD	2.90	1.27	1.22
29	1C	513	CLA	C3B-C4B	2.90	1.49	1.42
29	05	311	CLA	MG-NA	-2.90	1.99	2.06
29	08	309	CLA	C1D-C2D	2.90	1.51	1.45
30	02	607	CHL	C3D-C2D	2.90	1.47	1.39
30	07	311	CHL	C3D-C2D	2.90	1.47	1.39
29	1B	606	CLA	CHD-C4C	2.90	1.45	1.39
29	1n	612	CLA	CHD-C4C	2.90	1.45	1.39
29	1g	611	CLA	CHD-C1D	2.90	1.44	1.38
29	1r	308	CLA	CHD-C4C	2.90	1.45	1.39
29	1b	602	CLA	C4B-NB	-2.90	1.34	1.37
30	1g	609	CHL	C1D-C2D	2.90	1.51	1.45
29	1b	610	CLA	C3D-C2D	2.90	1.47	1.39
29	09	317	CLA	CHD-C4C	2.90	1.45	1.39
29	02	602	CLA	C3D-C2D	2.90	1.47	1.39
30	1N	306	CHL	C3B-C4B	2.90	1.49	1.42
29	1B	615	CLA	C3D-C2D	2.90	1.47	1.39
30	07	305	CHL	C3D-C2D	2.90	1.47	1.39
30	05	306	CHL	C1D-C2D	2.90	1.51	1.45
35	1B	619	BCR	C23-C22	-2.90	1.39	1.45
29	05	309	CLA	C3D-C2D	2.90	1.47	1.39
29	1R	312	CLA	C3D-C2D	2.90	1.47	1.39
29	1B	614	CLA	C1B-C2B	2.90	1.50	1.43
29	1S	305	CLA	C3D-C2D	2.90	1.47	1.39
29	09	310	CLA	C3D-C2D	2.89	1.47	1.39
29	1g	614	CLA	C3D-C2D	2.89	1.47	1.39
30	03	311	CHL	C3D-C2D	2.89	1.47	1.39
29	09	301	CLA	C3D-C2D	2.89	1.47	1.39
29	1G	614	CLA	C3D-C2D	2.89	1.47	1.39
29	1N	311	CLA	CHD-C1D	2.89	1.44	1.38
29	1r	302	CLA	C4B-NB	-2.89	1.34	1.37
29	1G	602	CLA	CHD-C4C	2.89	1.45	1.39
29	09	312	CLA	C3D-C2D	2.89	1.47	1.39
29	09	317	CLA	C3D-C2D	2.89	1.47	1.39
29	1R	314	CLA	C3D-C2D	2.89	1.47	1.39
29	1C	505	CLA	C3B-C4B	2.89	1.49	1.42
30	03	303	CHL	C1D-C2D	2.89	1.51	1.45
30	05	307	CHL	C1D-C2D	2.89	1.51	1.45
29	1c	514	CLA	CHC-C4B	2.89	1.45	1.39
29	1C	511	CLA	C3B-C4B	2.89	1.49	1.42
30	1G	605	CHL	C1D-C2D	2.89	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	00	301	CLA	CHD-C4C	2.89	1.45	1.39
29	07	309	CLA	C3D-C2D	2.89	1.47	1.39
29	1D	401	CLA	CHD-C4C	2.89	1.45	1.39
30	03	304	CHL	C1D-C2D	2.89	1.51	1.45
30	1r	305	CHL	C1D-C2D	2.89	1.51	1.45
30	03	303	CHL	C3D-C2D	2.89	1.47	1.39
29	1r	310	CLA	C4B-NB	-2.89	1.34	1.37
30	02	601	CHL	C3D-C2D	2.89	1.47	1.39
30	1G	601	CHL	C1D-C2D	2.89	1.51	1.45
29	1b	610	CLA	CHD-C1D	2.89	1.44	1.38
30	1G	605	CHL	C3D-C2D	2.89	1.47	1.39
29	1B	615	CLA	C4B-NB	-2.89	1.34	1.37
29	1g	604	CLA	CHC-C4B	2.89	1.45	1.39
35	1B	617	BCR	C19-C18	-2.89	1.39	1.45
30	02	607	CHL	C1D-C2D	2.89	1.51	1.45
29	01	310	CLA	C3D-C2D	2.89	1.47	1.39
29	1S	315	CLA	C1D-C2D	2.89	1.51	1.45
30	04	305	CHL	C3D-C2D	2.89	1.47	1.39
29	04	311	CLA	C4B-NB	-2.89	1.34	1.37
30	05	313	CHL	C1D-C2D	2.89	1.51	1.45
30	09	305	CHL	C3B-C4B	2.88	1.49	1.42
29	1s	313	CLA	C4B-NB	-2.88	1.34	1.37
30	1s	310	CHL	C1D-C2D	2.88	1.51	1.45
29	1C	504	CLA	C3B-C4B	2.88	1.49	1.42
29	1C	502	CLA	CHD-C1D	2.88	1.44	1.38
29	1C	502	CLA	C3D-C2D	2.88	1.47	1.39
29	1N	312	CLA	C3D-C2D	2.88	1.47	1.39
29	1S	311	CLA	C1B-NB	-2.88	1.34	1.37
29	1S	312	CLA	C4B-NB	-2.88	1.34	1.37
30	02	603	CHL	C3D-C2D	2.88	1.47	1.39
29	1C	511	CLA	C3D-C2D	2.88	1.47	1.39
29	03	309	CLA	C3D-C2D	2.88	1.47	1.39
29	08	311	CLA	C3D-C2D	2.88	1.47	1.39
30	02	604	CHL	C3D-C2D	2.88	1.47	1.39
30	05	313	CHL	C3D-C2D	2.88	1.47	1.39
29	1c	514	CLA	MG-NA	-2.88	1.99	2.06
29	1N	303	CLA	C4B-NB	-2.88	1.34	1.37
30	07	304	CHL	C3D-C2D	2.88	1.47	1.39
29	01	312	CLA	C1D-C2D	2.88	1.51	1.45
29	01	311	CLA	C3D-C2D	2.88	1.47	1.39
29	03	301	CLA	C3D-C2D	2.88	1.47	1.39
29	1B	604	CLA	C3D-C2D	2.88	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	08	305	CHL	OBD-CAD	2.88	1.28	1.23
30	03	304	CHL	C3D-C2D	2.88	1.47	1.39
30	03	305	CHL	C3D-C2D	2.88	1.47	1.39
29	1b	614	CLA	CHC-C4B	2.88	1.45	1.39
30	1R	303	CHL	CHB-C1B	2.88	1.45	1.39
29	04	314	CLA	C3D-C2D	2.88	1.47	1.39
29	1G	613	CLA	C3D-C2D	2.88	1.47	1.39
29	07	312	CLA	C4B-NB	-2.88	1.34	1.37
29	1S	312	CLA	C3D-C2D	2.88	1.47	1.39
29	1b	611	CLA	CHC-C4B	2.88	1.45	1.39
29	1b	611	CLA	C1B-NB	-2.88	1.34	1.37
29	1r	308	CLA	C4B-NB	-2.88	1.34	1.37
30	07	306	CHL	C1D-C2D	2.88	1.51	1.45
30	1G	606	CHL	C1D-C2D	2.88	1.51	1.45
29	1n	602	CLA	C3B-C4B	2.88	1.49	1.42
29	07	312	CLA	C3D-C2D	2.87	1.47	1.39
30	1s	310	CHL	C3B-C4B	2.87	1.49	1.42
29	1S	305	CLA	C4B-NB	-2.87	1.34	1.37
29	1D	402	CLA	C4B-NB	-2.87	1.34	1.37
29	1G	614	CLA	C4B-NB	-2.87	1.34	1.37
29	05	311	CLA	CHD-C1D	2.87	1.44	1.38
30	00	308	CHL	C1D-C2D	2.87	1.51	1.45
35	1b	620	BCR	C23-C22	-2.87	1.39	1.45
29	1b	607	CLA	C3B-C4B	2.87	1.49	1.42
29	1b	612	CLA	CHD-C4C	2.87	1.45	1.39
29	1d	406	CLA	C3B-C4B	2.87	1.49	1.42
29	1g	611	CLA	C4B-NB	-2.87	1.34	1.37
29	1c	506	CLA	CHD-C1D	2.87	1.44	1.38
30	09	304	CHL	C3D-C2D	2.87	1.47	1.39
30	1N	308	CHL	C1D-C2D	2.87	1.51	1.45
29	1b	610	CLA	CHC-C4B	2.87	1.45	1.39
29	1B	608	CLA	C3D-C2D	2.87	1.47	1.39
30	1g	608	CHL	C3B-C4B	2.87	1.49	1.42
29	1R	310	CLA	C1D-C2D	2.87	1.51	1.45
30	1n	608	CHL	C3B-C4B	2.87	1.49	1.42
30	01	302	CHL	C3D-C2D	2.87	1.46	1.39
30	1s	309	CHL	C3D-C2D	2.87	1.46	1.39
29	00	303	CLA	CHC-C4B	2.87	1.45	1.39
29	1N	311	CLA	C3B-C4B	2.87	1.49	1.42
29	08	308	CLA	C4B-NB	-2.87	1.34	1.37
30	1N	302	CHL	C1D-C2D	2.87	1.51	1.45
29	1C	504	CLA	C3D-C2D	2.87	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	04	303	CHL	C3D-C2D	2.87	1.46	1.39
29	00	310	CLA	C3D-C2D	2.87	1.46	1.39
29	1s	312	CLA	C1D-C2D	2.87	1.51	1.45
29	1r	308	CLA	C3B-C4B	2.87	1.49	1.42
29	03	306	CLA	C3D-C2D	2.87	1.46	1.39
29	1c	503	CLA	C3B-C4B	2.87	1.49	1.42
29	1d	403	CLA	C3B-C4B	2.87	1.49	1.42
29	07	308	CLA	C3D-C2D	2.86	1.46	1.39
29	1B	608	CLA	CHD-C4C	2.86	1.45	1.39
29	08	311	CLA	C4B-NB	-2.86	1.34	1.37
30	1G	609	CHL	C1D-C2D	2.86	1.51	1.45
29	1A	404	CLA	C4B-NB	-2.86	1.34	1.37
29	01	301	CLA	C3D-C2D	2.86	1.46	1.39
29	04	311	CLA	C3D-C2D	2.86	1.46	1.39
29	1B	606	CLA	C3D-C2D	2.86	1.46	1.39
29	04	308	CLA	C3D-C2D	2.86	1.46	1.39
29	02	609	CLA	C3D-C2D	2.86	1.46	1.39
29	09	302	CLA	MG-NA	-2.86	1.99	2.06
29	1B	605	CLA	C4B-NB	-2.86	1.34	1.37
29	1n	603	CLA	C4B-NB	-2.86	1.34	1.37
29	1S	313	CLA	C3D-C2D	2.86	1.46	1.39
29	1a	406	CLA	C4B-NB	-2.86	1.34	1.37
29	1G	611	CLA	C3D-C2D	2.86	1.46	1.39
30	07	305	CHL	C1D-C2D	2.86	1.51	1.45
30	03	304	CHL	CHB-C1B	2.86	1.45	1.39
29	00	318	CLA	CHD-C1D	2.86	1.43	1.38
29	1B	614	CLA	CHC-C4B	2.86	1.45	1.39
30	1n	608	CHL	C1D-C2D	2.86	1.51	1.45
29	1B	608	CLA	MG-NA	-2.86	1.99	2.06
35	1J	101	BCR	C23-C22	-2.86	1.39	1.45
29	00	301	CLA	CHD-C1D	2.86	1.43	1.38
29	03	306	CLA	CHD-C1D	2.86	1.43	1.38
30	02	605	CHL	C3D-C2D	2.86	1.46	1.39
29	03	307	CLA	C4B-NB	-2.86	1.34	1.37
29	08	309	CLA	C4B-NB	-2.86	1.34	1.37
29	1B	614	CLA	C3D-C2D	2.86	1.46	1.39
30	00	306	CHL	C3D-C2D	2.86	1.46	1.39
30	05	307	CHL	C3D-C2D	2.86	1.46	1.39
29	1C	503	CLA	C4B-NB	-2.86	1.34	1.37
29	03	307	CLA	C3D-C2D	2.86	1.46	1.39
30	1R	303	CHL	C1D-C2D	2.86	1.51	1.45
30	07	303	CHL	C3D-C2D	2.86	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1g	605	CHL	C1D-C2D	2.86	1.51	1.45
29	1r	308	CLA	CHD-C1D	2.85	1.43	1.38
29	1c	504	CLA	CHD-C4C	2.85	1.45	1.39
30	05	305	CHL	C3D-C2D	2.85	1.46	1.39
29	04	307	CLA	C4B-NB	-2.85	1.34	1.37
29	1S	313	CLA	CHC-C4B	2.85	1.45	1.39
29	1a	408	CLA	C3B-C4B	2.85	1.49	1.42
29	04	312	CLA	C4B-NB	-2.85	1.34	1.37
29	1s	311	CLA	C4B-NB	-2.85	1.34	1.37
30	04	304	CHL	C3D-C2D	2.85	1.46	1.39
29	03	308	CLA	C1D-C2D	2.85	1.51	1.45
29	1C	509	CLA	MG-NA	-2.85	1.99	2.06
29	1R	307	CLA	C3B-C4B	2.85	1.49	1.42
29	00	310	CLA	C4B-NB	-2.85	1.34	1.37
29	1S	310	CLA	C1D-C2D	2.85	1.50	1.45
29	1R	302	CLA	C3D-C2D	2.85	1.46	1.39
29	01	309	CLA	C1D-C2D	2.85	1.50	1.45
29	1s	314	CLA	C3D-C2D	2.85	1.46	1.39
29	1a	405	CLA	C3D-C2D	2.85	1.46	1.39
30	1g	609	CHL	C3D-C2D	2.85	1.46	1.39
29	1S	315	CLA	C1B-NB	-2.85	1.34	1.37
31	09	314	LUT	C8-C9	-2.85	1.39	1.45
29	1d	403	CLA	C1D-C2D	2.85	1.50	1.45
29	1b	606	CLA	CHC-C4B	2.85	1.45	1.39
30	04	303	CHL	C3B-C4B	2.85	1.49	1.42
29	1N	303	CLA	CHD-C4C	2.85	1.45	1.39
29	03	312	CLA	C3D-C2D	2.85	1.46	1.39
29	1d	407	CLA	C3D-C2D	2.85	1.46	1.39
29	05	303	CLA	C1D-C2D	2.85	1.50	1.45
30	05	305	CHL	C3B-C4B	2.85	1.49	1.42
29	1D	402	CLA	CHC-C4B	2.85	1.45	1.39
30	00	306	CHL	CHB-C1B	2.85	1.45	1.39
29	00	301	CLA	C3D-C2D	2.85	1.46	1.39
31	1g	615	LUT	C30-C29	2.84	1.39	1.35
29	1C	502	CLA	MG-NA	-2.84	1.99	2.06
29	02	613	CLA	C1D-C2D	2.84	1.50	1.45
29	1C	512	CLA	C4B-NB	-2.84	1.34	1.37
30	1S	308	CHL	C3D-C2D	2.84	1.46	1.39
29	1b	604	CLA	C3D-C2D	2.84	1.46	1.39
29	1c	515	CLA	C3D-C2D	2.84	1.46	1.39
29	05	302	CLA	CHD-C1D	2.84	1.43	1.38
29	1b	613	CLA	MG-NA	-2.84	1.99	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	01	311	CLA	C3B-C4B	2.84	1.49	1.42
35	1b	618	BCR	C14-C13	2.84	1.39	1.35
31	00	314	LUT	C8-C9	-2.84	1.39	1.45
29	08	307	CLA	C1D-C2D	2.84	1.50	1.45
29	1b	606	CLA	C4B-NB	-2.84	1.34	1.37
29	1G	604	CLA	C1D-C2D	2.84	1.50	1.45
30	1n	605	CHL	C1D-C2D	2.84	1.50	1.45
30	06	606	CHL	C1D-C2D	2.84	1.50	1.45
29	1d	406	CLA	C1B-NB	-2.84	1.34	1.37
29	1B	613	CLA	MG-NA	-2.84	1.99	2.06
29	1b	613	CLA	C1B-NB	-2.84	1.34	1.37
29	1s	311	CLA	C3D-C2D	2.84	1.46	1.39
30	1s	308	CHL	C3D-C2D	2.84	1.46	1.39
29	06	608	CLA	C1D-C2D	2.84	1.50	1.45
29	1D	401	CLA	C3B-C4B	2.84	1.49	1.42
29	1B	608	CLA	C3B-C4B	2.84	1.49	1.42
29	1r	304	CLA	C3D-C2D	2.84	1.46	1.39
29	00	311	CLA	CHD-C4C	2.84	1.45	1.39
29	1c	509	CLA	C3D-C2D	2.84	1.46	1.39
29	02	602	CLA	C4B-NB	-2.84	1.34	1.37
29	1b	616	CLA	MG-NA	-2.84	1.99	2.06
29	1R	307	CLA	CHD-C4C	2.83	1.45	1.39
30	1g	605	CHL	C3D-C2D	2.83	1.46	1.39
30	1S	307	CHL	C3D-C2D	2.83	1.46	1.39
29	1c	515	CLA	C4B-NB	-2.83	1.34	1.37
29	1r	309	CLA	C4B-NB	-2.83	1.34	1.37
29	02	610	CLA	C1D-C2D	2.83	1.50	1.45
29	1b	612	CLA	CHD-C1D	2.83	1.43	1.38
30	09	308	CHL	C3D-C2D	2.83	1.46	1.39
29	04	309	CLA	C1D-C2D	2.83	1.50	1.45
29	06	607	CLA	C1D-C2D	2.83	1.50	1.45
29	06	602	CLA	C3B-C4B	2.83	1.49	1.42
29	1S	311	CLA	C3D-C2D	2.83	1.46	1.39
29	06	602	CLA	CHD-C1D	2.83	1.43	1.38
29	1g	611	CLA	CHD-C4C	2.83	1.45	1.39
30	1R	304	CHL	C3D-C2D	2.83	1.46	1.39
30	1n	605	CHL	C3D-C2D	2.83	1.46	1.39
29	1b	609	CLA	CHD-C4C	2.83	1.45	1.39
30	07	303	CHL	C1D-C2D	2.83	1.50	1.45
29	1c	511	CLA	CHD-C4C	2.83	1.45	1.39
29	1r	309	CLA	C3D-C2D	2.83	1.46	1.39
29	04	309	CLA	MG-NA	-2.83	1.99	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1b	611	CLA	C3D-C2D	2.83	1.46	1.39
29	1S	315	CLA	C3D-C2D	2.83	1.46	1.39
29	1N	303	CLA	C3D-C2D	2.83	1.46	1.39
29	02	609	CLA	C4B-NB	-2.83	1.34	1.37
31	03	313	LUT	C32-C33	-2.83	1.39	1.45
29	1b	607	CLA	C3D-C2D	2.82	1.46	1.39
29	1C	506	CLA	CHD-C1D	2.82	1.43	1.38
29	1g	604	CLA	C1D-C2D	2.82	1.50	1.45
29	1b	617	CLA	MG-NA	-2.82	1.99	2.06
29	1a	405	CLA	C4B-NB	-2.82	1.34	1.37
29	1b	615	CLA	C1D-C2D	2.82	1.50	1.45
29	1b	605	CLA	CHC-C4B	2.82	1.45	1.39
29	1d	403	CLA	C3D-C2D	2.82	1.46	1.39
29	1r	308	CLA	C3D-C2D	2.82	1.46	1.39
29	1c	514	CLA	CHD-C4C	2.82	1.45	1.39
30	08	302	CHL	C3D-C2D	2.82	1.46	1.39
30	1n	608	CHL	C3D-C2D	2.82	1.46	1.39
29	1S	311	CLA	C4B-NB	-2.82	1.34	1.37
30	01	304	CHL	C1D-C2D	2.82	1.50	1.45
29	1g	602	CLA	CHD-C1D	2.82	1.43	1.38
29	04	306	CLA	C3D-C2D	2.82	1.46	1.39
30	06	604	CHL	C3D-C2D	2.82	1.46	1.39
29	06	602	CLA	C3D-C2D	2.82	1.46	1.39
29	1s	306	CLA	C3D-C2D	2.82	1.46	1.39
29	01	309	CLA	C3B-C4B	2.82	1.49	1.42
29	1D	401	CLA	C3D-C2D	2.82	1.46	1.39
29	05	302	CLA	CHD-C4C	2.82	1.45	1.39
29	1C	501	CLA	C1B-NB	-2.82	1.34	1.37
29	00	309	CLA	C4B-NB	-2.82	1.34	1.37
29	1B	612	CLA	C1B-NB	-2.82	1.34	1.37
29	1R	312	CLA	C4B-NB	-2.82	1.34	1.37
29	1R	307	CLA	CHD-C1D	2.82	1.43	1.38
30	1n	607	CHL	C1D-C2D	2.82	1.50	1.45
29	1C	513	CLA	C4B-NB	-2.82	1.34	1.37
29	04	308	CLA	C1D-C2D	2.82	1.50	1.45
29	1N	313	CLA	C1D-C2D	2.82	1.50	1.45
29	1b	604	CLA	C4B-NB	-2.82	1.34	1.37
30	1r	307	CHL	C1D-C2D	2.81	1.50	1.45
31	1N	316	LUT	C32-C33	-2.81	1.39	1.45
29	1c	512	CLA	CHD-C4C	2.81	1.45	1.39
29	1s	305	CLA	CHD-C4C	2.81	1.45	1.39
30	1g	606	CHL	C3D-C2D	2.81	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1g	613	CLA	C4B-NB	-2.81	1.34	1.37
30	07	311	CHL	C1D-C2D	2.81	1.50	1.45
29	03	309	CLA	C1D-C2D	2.81	1.50	1.45
30	1S	308	CHL	C1D-C2D	2.81	1.50	1.45
30	09	307	CHL	C3D-C2D	2.81	1.46	1.39
35	1h	101	BCR	C8-C9	-2.81	1.39	1.45
29	02	612	CLA	C1D-C2D	2.81	1.50	1.45
29	1n	611	CLA	C4B-NB	-2.81	1.34	1.37
29	06	610	CLA	C1D-C2D	2.81	1.50	1.45
30	1R	303	CHL	C1B-NB	-2.81	1.34	1.37
30	07	306	CHL	C3D-C2D	2.81	1.46	1.39
29	02	602	CLA	CHD-C1D	2.81	1.43	1.38
29	01	312	CLA	C4B-NB	-2.81	1.34	1.37
29	02	608	CLA	C4B-NB	-2.81	1.34	1.37
29	1N	315	CLA	C1D-C2D	2.81	1.50	1.45
35	1B	617	BCR	C12-C13	-2.81	1.39	1.45
29	1c	510	CLA	MG-NA	-2.81	1.99	2.06
29	09	303	CLA	CHC-C4B	2.81	1.45	1.39
29	06	609	CLA	C1D-C2D	2.81	1.50	1.45
29	1N	312	CLA	C1D-C2D	2.81	1.50	1.45
30	1n	606	CHL	C3D-C2D	2.81	1.46	1.39
29	06	609	CLA	C4B-NB	-2.81	1.34	1.37
29	1c	508	CLA	C1D-C2D	2.81	1.50	1.45
30	09	308	CHL	CHC-C4B	2.81	1.45	1.39
29	08	312	CLA	C1D-C2D	2.80	1.50	1.45
30	1S	309	CHL	C1D-C2D	2.80	1.50	1.45
30	00	305	CHL	C1B-C2B	2.80	1.49	1.43
29	1A	407	CLA	C3D-C2D	2.80	1.46	1.39
30	1S	309	CHL	C3D-C2D	2.80	1.46	1.39
35	1c	516	BCR	C8-C9	-2.80	1.39	1.45
31	1N	316	LUT	C28-C29	-2.80	1.39	1.45
30	00	308	CHL	C3D-C2D	2.80	1.46	1.39
30	1R	305	CHL	C3D-C2D	2.80	1.46	1.39
29	1A	407	CLA	CHD-C4C	2.80	1.45	1.39
29	1c	507	CLA	C3B-C4B	2.80	1.49	1.42
30	09	305	CHL	C3D-C2D	2.80	1.46	1.39
30	1n	609	CHL	C1D-C2D	2.80	1.50	1.45
29	1C	512	CLA	C3D-C2D	2.80	1.46	1.39
29	07	302	CLA	CHD-C4C	2.80	1.45	1.39
29	1b	610	CLA	MG-NA	-2.80	1.99	2.06
29	1B	603	CLA	C4B-NB	-2.80	1.34	1.37
29	1N	312	CLA	C4B-NB	-2.80	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1n	614	CLA	C1D-C2D	2.80	1.50	1.45
30	1r	305	CHL	C3D-C2D	2.80	1.46	1.39
29	1G	602	CLA	C4B-NB	-2.80	1.34	1.37
29	1g	602	CLA	CHD-C4C	2.80	1.45	1.39
30	05	304	CHL	C4C-C3C	2.80	1.49	1.45
29	00	318	CLA	CHD-C4C	2.80	1.45	1.39
29	09	312	CLA	C1D-C2D	2.80	1.50	1.45
30	1G	608	CHL	C1D-C2D	2.80	1.50	1.45
30	1s	309	CHL	C1D-C2D	2.80	1.50	1.45
29	05	308	CLA	C1D-C2D	2.80	1.50	1.45
29	1N	305	CLA	C1D-C2D	2.80	1.50	1.45
29	1c	515	CLA	C3B-C4B	2.80	1.49	1.42
29	1N	311	CLA	CHD-C4C	2.80	1.45	1.39
31	09	313	LUT	C32-C33	-2.80	1.39	1.45
35	1i	101	BCR	C12-C13	-2.80	1.39	1.45
30	1n	607	CHL	C3D-C2D	2.80	1.46	1.39
29	1B	616	CLA	CHD-C4C	2.80	1.45	1.39
29	08	311	CLA	C3B-C4B	2.80	1.49	1.42
30	01	305	CHL	C3B-C4B	2.80	1.49	1.42
30	1G	606	CHL	C3D-C2D	2.80	1.46	1.39
29	1C	510	CLA	C3D-C2D	2.80	1.46	1.39
29	1C	508	CLA	CHC-C4B	2.79	1.45	1.39
30	1g	606	CHL	C1D-C2D	2.79	1.50	1.45
30	1G	606	CHL	C3B-C4B	2.79	1.49	1.42
31	01	315	LUT	C8-C9	-2.79	1.39	1.45
29	1R	311	CLA	C3D-C2D	2.79	1.46	1.39
29	01	313	CLA	C1D-C2D	2.79	1.50	1.45
30	1N	307	CHL	C3D-C2D	2.79	1.46	1.39
29	08	311	CLA	MG-NA	-2.79	1.99	2.06
30	1N	302	CHL	C3D-C2D	2.79	1.46	1.39
29	00	312	CLA	CHC-C4B	2.79	1.45	1.39
29	1N	305	CLA	C4B-NB	-2.79	1.34	1.37
30	03	305	CHL	C1D-C2D	2.79	1.50	1.45
29	1G	610	CLA	C1D-C2D	2.79	1.50	1.45
29	1r	302	CLA	C3D-C2D	2.79	1.46	1.39
30	01	304	CHL	C3D-C2D	2.79	1.46	1.39
29	06	611	CLA	C1D-C2D	2.79	1.50	1.45
30	00	307	CHL	C3B-C4B	2.79	1.49	1.42
29	1g	614	CLA	C1D-C2D	2.79	1.50	1.45
29	02	602	CLA	C3B-C4B	2.79	1.49	1.42
30	1R	313	CHL	C3D-C2D	2.79	1.46	1.39
29	1c	507	CLA	C1B-NB	-2.79	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	00	309	CLA	C3B-C4B	2.79	1.49	1.42
30	00	304	CHL	C3D-C2D	2.79	1.46	1.39
29	1B	601	CLA	C4B-NB	-2.79	1.34	1.37
29	1G	610	CLA	C3B-C4B	2.78	1.49	1.42
29	1G	613	CLA	C3B-C4B	2.78	1.49	1.42
29	09	311	CLA	C3D-C2D	2.78	1.46	1.39
29	08	307	CLA	C4B-NB	-2.78	1.34	1.37
29	1r	309	CLA	C3B-C4B	2.78	1.49	1.42
30	09	304	CHL	C1D-C2D	2.78	1.50	1.45
35	1H	101	BCR	C23-C22	-2.78	1.40	1.45
29	09	317	CLA	CHD-C1D	2.78	1.43	1.38
30	05	305	CHL	C1D-C2D	2.78	1.50	1.45
29	00	302	CLA	C3D-C2D	2.78	1.46	1.39
35	1D	406	BCR	C23-C22	-2.78	1.40	1.45
29	09	310	CLA	C4B-NB	-2.78	1.34	1.37
30	08	303	CHL	C3D-C2D	2.78	1.46	1.39
38	1d	404	PHO	C4D-CHA	2.78	1.44	1.39
29	1r	312	CLA	C1D-C2D	2.78	1.50	1.45
30	06	604	CHL	C3B-C4B	2.78	1.49	1.42
29	1B	602	CLA	C3D-C2D	2.78	1.46	1.39
30	08	303	CHL	C3B-C4B	2.78	1.49	1.42
29	05	311	CLA	CHD-C4C	2.78	1.45	1.39
29	1R	306	CLA	C3B-C4B	2.78	1.49	1.42
29	1b	611	CLA	MG-NA	-2.77	1.99	2.06
29	03	310	CLA	C1D-C2D	2.77	1.50	1.45
29	1D	401	CLA	C1B-NB	-2.77	1.34	1.37
29	05	302	CLA	C3D-C2D	2.77	1.46	1.39
29	1s	306	CLA	C1D-C2D	2.77	1.50	1.45
30	01	303	CHL	C3B-C4B	2.77	1.49	1.42
29	02	610	CLA	C4B-NB	-2.77	1.34	1.37
30	04	303	CHL	C1D-C2D	2.77	1.50	1.45
29	04	310	CLA	C3B-C4B	2.77	1.49	1.42
29	1n	611	CLA	C3B-C4B	2.77	1.49	1.42
29	09	302	CLA	C3D-C2D	2.77	1.46	1.39
29	06	610	CLA	C4B-NB	-2.77	1.34	1.37
31	1G	616	LUT	C28-C29	-2.77	1.40	1.45
29	1D	402	CLA	MG-NA	-2.77	1.99	2.06
29	02	612	CLA	C3D-C2D	2.77	1.46	1.39
29	1N	303	CLA	CHD-C1D	2.77	1.43	1.38
29	01	312	CLA	C3B-C4B	2.77	1.49	1.42
29	04	309	CLA	C3D-C2D	2.77	1.46	1.39
29	1r	303	CLA	C4B-NB	-2.77	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	07	309	CLA	C3B-C4B	2.77	1.49	1.42
29	07	309	CLA	C4B-NB	-2.77	1.34	1.37
29	1g	604	CLA	C4B-NB	-2.77	1.34	1.37
29	1b	606	CLA	MG-NA	-2.77	1.99	2.06
29	02	614	CLA	C4B-NB	-2.76	1.34	1.37
30	01	303	CHL	C3D-C2D	2.76	1.46	1.39
30	1S	304	CHL	C3D-C2D	2.76	1.46	1.39
29	1b	616	CLA	C3D-C2D	2.76	1.46	1.39
30	1R	304	CHL	C1D-C2D	2.76	1.50	1.45
29	08	310	CLA	C1D-C2D	2.76	1.50	1.45
29	1b	610	CLA	CHD-C4C	2.76	1.45	1.39
30	1r	307	CHL	C3D-C2D	2.76	1.46	1.39
29	05	302	CLA	MG-NA	-2.76	1.99	2.06
29	1C	508	CLA	CHD-C1D	2.76	1.43	1.38
29	02	614	CLA	C1D-C2D	2.76	1.50	1.45
29	1C	501	CLA	C1D-C2D	2.76	1.50	1.45
29	1b	604	CLA	CHC-C4B	2.76	1.45	1.39
29	00	311	CLA	MG-NA	-2.76	1.99	2.06
30	1g	607	CHL	C3B-C4B	2.76	1.49	1.42
29	1R	306	CLA	C1D-C2D	2.76	1.50	1.45
29	1N	315	CLA	C3B-C4B	2.76	1.49	1.42
29	1c	512	CLA	C3B-C4B	2.76	1.49	1.42
29	1r	309	CLA	C1D-C2D	2.76	1.50	1.45
38	1a	407	PHO	C2A-C3A	-2.76	1.52	1.54
29	1R	307	CLA	C3D-C2D	2.76	1.46	1.39
29	1c	509	CLA	MG-NA	-2.76	1.99	2.06
30	09	306	CHL	C3D-C2D	2.76	1.46	1.39
29	09	302	CLA	CHD-C1D	2.76	1.43	1.38
29	09	303	CLA	C4B-NB	-2.76	1.34	1.37
29	01	301	CLA	C1D-C2D	2.76	1.50	1.45
29	09	301	CLA	CHD-C4C	2.76	1.45	1.39
29	1s	305	CLA	CHD-C1D	2.76	1.43	1.38
29	07	310	CLA	C1D-C2D	2.76	1.50	1.45
29	1B	610	CLA	MG-NA	-2.76	1.99	2.06
29	1g	610	CLA	MG-NA	-2.75	1.99	2.06
30	00	307	CHL	C1D-C2D	2.75	1.50	1.45
29	1A	404	CLA	C1B-NB	-2.75	1.34	1.37
31	1s	318	LUT	C32-C33	-2.75	1.40	1.45
29	1n	614	CLA	C4B-NB	-2.75	1.34	1.37
29	1D	405	CLA	C1D-C2D	2.75	1.50	1.45
29	02	608	CLA	C3B-C4B	2.75	1.49	1.42
30	04	302	CHL	C3B-C4B	2.75	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	05	304	CHL	C1D-C2D	2.75	1.50	1.45
29	1n	602	CLA	C4B-NB	-2.75	1.34	1.37
35	1b	618	BCR	C17-C18	2.75	1.39	1.35
29	1B	613	CLA	C3B-C4B	2.75	1.49	1.42
29	04	312	CLA	C3D-C2D	2.75	1.46	1.39
29	1R	311	CLA	C1D-C2D	2.75	1.50	1.45
29	1n	602	CLA	MG-NA	-2.75	1.99	2.06
29	1C	504	CLA	C1B-NB	-2.75	1.34	1.37
29	1s	313	CLA	C3B-C4B	2.75	1.49	1.42
30	1G	608	CHL	C3D-C2D	2.75	1.46	1.39
35	1a	409	BCR	C19-C18	-2.75	1.40	1.45
29	00	318	CLA	C4B-NB	-2.75	1.34	1.37
29	1S	314	CLA	C1D-C2D	2.75	1.50	1.45
29	01	313	CLA	C3B-C4B	2.75	1.49	1.42
30	05	306	CHL	C3D-C2D	2.75	1.46	1.39
29	1S	305	CLA	CHD-C4C	2.75	1.45	1.39
29	05	309	CLA	C4B-NB	-2.75	1.34	1.37
29	1C	507	CLA	MG-NA	-2.74	1.99	2.06
29	1C	511	CLA	MG-NA	-2.74	1.99	2.06
38	1d	404	PHO	C3A-C2A	-2.74	1.52	1.54
29	1s	313	CLA	C1D-C2D	2.74	1.50	1.45
29	1r	314	CLA	C4B-NB	-2.74	1.34	1.37
29	1C	508	CLA	CHD-C4C	2.74	1.45	1.39
29	00	303	CLA	C1D-C2D	2.74	1.50	1.45
29	07	302	CLA	CHC-C4B	2.74	1.45	1.39
29	1c	506	CLA	C1B-NB	-2.74	1.34	1.37
29	1C	512	CLA	MG-NA	-2.74	1.99	2.06
29	1r	314	CLA	C1D-C2D	2.74	1.50	1.45
31	1n	615	LUT	C8-C9	-2.74	1.40	1.45
29	1g	602	CLA	C3D-C2D	2.74	1.46	1.39
29	1R	307	CLA	C4B-NB	-2.74	1.34	1.37
29	06	610	CLA	C3B-C4B	2.74	1.49	1.42
29	09	309	CLA	MG-NA	-2.74	1.99	2.06
35	1B	617	BCR	C21-C22	2.74	1.39	1.35
29	1C	503	CLA	C3D-C2D	2.74	1.46	1.39
30	1s	309	CHL	C3B-C4B	2.74	1.49	1.42
29	1B	610	CLA	CHD-C4C	2.74	1.45	1.39
29	1G	602	CLA	C3B-C4B	2.74	1.49	1.42
29	1g	614	CLA	C3B-C4B	2.74	1.49	1.42
31	1G	615	LUT	C8-C9	-2.74	1.40	1.45
35	1B	630	BCR	C12-C13	-2.73	1.40	1.45
29	1R	309	CLA	CHC-C4B	2.73	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1N	308	CHL	C3D-C2D	2.73	1.46	1.39
29	1c	505	CLA	C4B-NB	-2.73	1.34	1.37
29	1B	602	CLA	CHC-C4B	2.73	1.45	1.39
29	1c	503	CLA	C1D-C2D	2.73	1.50	1.45
29	1b	609	CLA	C3D-C2D	2.73	1.46	1.39
29	1R	314	CLA	MG-NA	-2.73	1.99	2.06
29	04	309	CLA	C3B-C4B	2.73	1.49	1.42
35	1h	101	BCR	C23-C22	-2.73	1.40	1.45
29	04	307	CLA	C1D-C2D	2.73	1.50	1.45
29	1c	512	CLA	CHD-C1D	2.73	1.43	1.38
35	1I	102	BCR	C12-C13	-2.73	1.40	1.45
29	07	308	CLA	C4B-NB	-2.73	1.34	1.37
29	1B	609	CLA	C4B-NB	-2.73	1.34	1.37
29	1C	506	CLA	C3D-C2D	2.73	1.46	1.39
29	00	302	CLA	C1D-C2D	2.73	1.50	1.45
29	06	602	CLA	MG-NA	-2.73	1.99	2.06
29	1s	314	CLA	C4B-NB	-2.73	1.34	1.37
29	05	302	CLA	C3B-C4B	2.73	1.49	1.42
29	05	308	CLA	MG-NA	-2.73	1.99	2.06
29	04	311	CLA	C1D-C2D	2.73	1.50	1.45
29	04	312	CLA	C3B-C4B	2.73	1.49	1.42
29	01	310	CLA	C4B-NB	-2.73	1.34	1.37
29	1n	610	CLA	C4C-C3C	2.73	1.49	1.45
29	1S	316	CLA	C4B-NB	-2.73	1.34	1.37
29	04	311	CLA	C3B-C4B	2.73	1.49	1.42
29	06	607	CLA	C3B-C4B	2.73	1.49	1.42
29	07	312	CLA	C3B-C4B	2.73	1.49	1.42
30	09	306	CHL	C1D-C2D	2.73	1.50	1.45
29	1r	312	CLA	C3B-C4B	2.73	1.49	1.42
29	01	310	CLA	C3B-C4B	2.73	1.49	1.42
29	04	310	CLA	C3D-C2D	2.73	1.46	1.39
29	1b	605	CLA	MG-NA	-2.73	1.99	2.06
29	1c	506	CLA	C3B-C4B	2.73	1.49	1.42
29	1c	504	CLA	C3D-C2D	2.72	1.46	1.39
29	1c	510	CLA	CHD-C1D	2.72	1.43	1.38
29	1G	604	CLA	C4B-NB	-2.72	1.34	1.37
29	1B	607	CLA	C1B-C2B	2.72	1.49	1.43
29	02	609	CLA	C3B-C4B	2.72	1.49	1.42
35	1i	101	BCR	C19-C18	-2.72	1.40	1.45
31	1N	316	LUT	C12-C13	-2.72	1.40	1.45
29	1r	304	CLA	C4B-NB	-2.72	1.34	1.37
29	02	613	CLA	C3B-C4B	2.72	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1N	303	CLA	C3B-C4B	2.72	1.49	1.42
29	1R	311	CLA	MG-NA	-2.72	1.99	2.06
29	1B	609	CLA	CHC-C4B	2.72	1.45	1.39
29	02	611	CLA	C4B-NB	-2.72	1.34	1.37
29	05	303	CLA	C4B-NB	-2.72	1.34	1.37
29	09	301	CLA	CHD-C1D	2.72	1.43	1.38
30	1N	309	CHL	C1D-C2D	2.72	1.50	1.45
29	1B	605	CLA	CHC-C4B	2.72	1.45	1.39
31	09	314	LUT	C32-C33	-2.72	1.40	1.45
29	1c	508	CLA	C4B-NB	-2.72	1.34	1.37
29	1B	611	CLA	C3D-C2D	2.72	1.46	1.39
29	07	307	CLA	C3B-C4B	2.72	1.49	1.42
29	08	309	CLA	C3B-C4B	2.72	1.49	1.42
29	09	303	CLA	C1D-C2D	2.72	1.50	1.45
29	04	308	CLA	C4B-NB	-2.72	1.34	1.37
29	00	303	CLA	C4B-NB	-2.72	1.34	1.37
29	1R	310	CLA	C3B-C4B	2.72	1.49	1.42
29	1c	505	CLA	C3D-C2D	2.72	1.46	1.39
29	05	312	CLA	C3B-C4B	2.72	1.49	1.42
30	09	307	CHL	C3B-C4B	2.72	1.49	1.42
29	1b	608	CLA	MG-NA	-2.72	1.99	2.06
29	1B	606	CLA	C3B-C4B	2.71	1.49	1.42
29	1c	512	CLA	MG-NA	-2.71	1.99	2.06
29	1R	302	CLA	C1D-C2D	2.71	1.50	1.45
30	1G	601	CHL	C3D-C2D	2.71	1.46	1.39
29	1C	513	CLA	CHD-C4C	2.71	1.45	1.39
29	1r	310	CLA	C3B-C4B	2.71	1.49	1.42
29	1C	504	CLA	MG-NA	-2.71	1.99	2.06
29	1B	604	CLA	C3B-C4B	2.71	1.49	1.42
30	1n	609	CHL	C3D-C2D	2.71	1.46	1.39
29	1R	310	CLA	C4B-NB	-2.71	1.34	1.37
30	1r	306	CHL	C1D-C2D	2.71	1.50	1.45
29	06	608	CLA	C3B-C4B	2.71	1.49	1.42
29	1C	512	CLA	C1D-C2D	2.71	1.50	1.45
29	1b	607	CLA	C1D-C2D	2.71	1.50	1.45
29	06	608	CLA	C4B-NB	-2.71	1.34	1.37
29	1c	509	CLA	C1B-NB	-2.71	1.34	1.37
29	1r	314	CLA	C3B-C4B	2.71	1.49	1.42
29	04	312	CLA	C1D-C2D	2.71	1.50	1.45
29	1b	612	CLA	CHC-C4B	2.71	1.45	1.39
30	08	303	CHL	C1D-C2D	2.71	1.50	1.45
29	1b	610	CLA	C1B-C2B	2.71	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1c	511	CLA	C1B-C2B	2.71	1.49	1.43
35	1D	406	BCR	C8-C9	-2.71	1.40	1.45
31	1G	616	LUT	C32-C33	-2.71	1.40	1.45
29	1N	312	CLA	C3B-C4B	2.71	1.49	1.42
29	1N	304	CLA	MG-NA	-2.71	1.99	2.06
29	1S	306	CLA	C1D-C2D	2.71	1.50	1.45
29	1a	406	CLA	C1D-C2D	2.71	1.50	1.45
29	1n	604	CLA	C1D-C2D	2.71	1.50	1.45
29	1b	614	CLA	C3B-C4B	2.71	1.49	1.42
29	1n	611	CLA	C3D-C2D	2.71	1.46	1.39
29	1b	608	CLA	C1B-NB	-2.71	1.34	1.37
29	1s	315	CLA	C4B-NB	-2.71	1.34	1.37
30	1g	608	CHL	C1D-C2D	2.71	1.50	1.45
29	05	308	CLA	C4B-NB	-2.71	1.34	1.37
29	1b	612	CLA	C4B-NB	-2.71	1.34	1.37
29	07	307	CLA	C1D-C2D	2.71	1.50	1.45
30	1s	304	CHL	C1D-C2D	2.71	1.50	1.45
29	1D	405	CLA	C3B-C4B	2.70	1.49	1.42
35	1b	618	BCR	C21-C22	2.70	1.39	1.35
29	1a	408	CLA	MG-NA	-2.70	1.99	2.06
29	1b	604	CLA	MG-NA	-2.70	1.99	2.06
29	02	609	CLA	C1D-C2D	2.70	1.50	1.45
30	09	307	CHL	C1D-C2D	2.70	1.50	1.45
29	03	308	CLA	C4B-NB	-2.70	1.34	1.37
29	1a	406	CLA	MG-NA	-2.70	1.99	2.06
29	1S	312	CLA	C3B-C4B	2.70	1.49	1.42
31	1g	616	LUT	C8-C9	-2.70	1.40	1.45
29	1B	615	CLA	C3B-C4B	2.70	1.49	1.42
29	1G	614	CLA	C3B-C4B	2.70	1.49	1.42
29	09	302	CLA	C1B-C2B	2.70	1.49	1.43
29	1a	405	CLA	CHD-C1D	2.70	1.43	1.38
35	1d	409	BCR	C8-C9	-2.70	1.40	1.45
29	1D	405	CLA	MG-NA	-2.70	1.99	2.06
29	1B	615	CLA	C1D-C2D	2.70	1.50	1.45
29	1S	305	CLA	C3B-C4B	2.70	1.49	1.42
29	1R	309	CLA	C1B-C2B	2.70	1.49	1.43
29	09	312	CLA	C4B-NB	-2.70	1.34	1.37
29	1C	502	CLA	CHD-C4C	2.70	1.45	1.39
29	1a	406	CLA	C3B-C4B	2.70	1.49	1.42
29	1R	307	CLA	MG-NA	-2.70	1.99	2.06
29	1g	603	CLA	MG-NA	-2.70	1.99	2.06
30	1r	306	CHL	C3B-C4B	2.70	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1s	305	CLA	C3D-C2D	2.70	1.46	1.39
29	1C	512	CLA	C3B-C4B	2.70	1.49	1.42
29	1c	506	CLA	C4B-NB	-2.70	1.34	1.37
29	1d	407	CLA	C4B-NB	-2.70	1.34	1.37
29	1b	617	CLA	C1D-C2D	2.70	1.50	1.45
30	08	302	CHL	C3B-C4B	2.70	1.49	1.42
35	1k	102	BCR	C19-C18	-2.70	1.40	1.45
29	1c	511	CLA	C3D-C2D	2.70	1.46	1.39
29	09	311	CLA	MG-NA	-2.70	1.99	2.06
29	1a	405	CLA	MG-NA	-2.69	1.99	2.06
29	04	314	CLA	C1D-C2D	2.69	1.50	1.45
29	1n	602	CLA	C1B-NB	-2.69	1.34	1.37
30	1g	608	CHL	C3D-C2D	2.69	1.46	1.39
29	1r	311	CLA	C1D-C2D	2.69	1.50	1.45
29	1B	603	CLA	C1B-NB	-2.69	1.34	1.37
29	1a	405	CLA	C1B-NB	-2.69	1.34	1.37
29	05	301	CLA	C3B-C4B	2.69	1.49	1.42
29	09	312	CLA	C3B-C4B	2.69	1.49	1.42
29	1N	304	CLA	C1D-C2D	2.69	1.50	1.45
29	1d	407	CLA	MG-NA	-2.69	1.99	2.06
29	06	602	CLA	C4B-NB	-2.69	1.34	1.37
29	1n	614	CLA	C3B-C4B	2.69	1.49	1.42
30	1N	309	CHL	C3D-C2D	2.69	1.46	1.39
29	1s	307	CLA	C4B-NB	-2.69	1.34	1.37
29	09	310	CLA	C3B-C4B	2.69	1.49	1.42
29	02	611	CLA	C3B-C4B	2.69	1.49	1.42
29	05	309	CLA	C3B-C4B	2.69	1.49	1.42
29	1r	314	CLA	MG-NA	-2.69	1.99	2.06
29	1G	613	CLA	C4B-NB	-2.69	1.34	1.37
29	1R	309	CLA	C3D-C2D	2.69	1.46	1.39
29	00	309	CLA	C1B-NB	-2.69	1.34	1.37
29	06	609	CLA	C3B-C4B	2.69	1.49	1.42
29	1D	401	CLA	CHD-C1D	2.69	1.43	1.38
29	00	311	CLA	C3D-C2D	2.69	1.46	1.39
29	05	309	CLA	C1D-C2D	2.69	1.50	1.45
29	1g	610	CLA	C1D-C2D	2.69	1.50	1.45
29	01	313	CLA	C4B-NB	-2.69	1.34	1.37
30	06	605	CHL	C3B-C4B	2.69	1.49	1.42
29	1C	508	CLA	MG-NA	-2.69	1.99	2.06
29	1C	501	CLA	MG-NA	-2.69	1.99	2.06
29	03	312	CLA	C3B-C4B	2.69	1.49	1.42
29	05	310	CLA	C1D-C2D	2.69	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1s	311	CLA	C3B-C4B	2.68	1.49	1.42
29	1c	514	CLA	CHD-C1D	2.68	1.43	1.38
29	00	309	CLA	MG-NA	-2.68	1.99	2.06
29	1C	511	CLA	C4B-NB	-2.68	1.34	1.37
29	1b	606	CLA	C1D-C2D	2.68	1.50	1.45
29	1B	611	CLA	CHD-C4C	2.68	1.45	1.39
29	1G	602	CLA	C1B-NB	-2.68	1.34	1.37
29	05	308	CLA	C3B-C4B	2.68	1.49	1.42
30	04	301	CHL	C3B-C4B	2.68	1.49	1.42
29	02	613	CLA	C4B-NB	-2.68	1.34	1.37
29	08	308	CLA	C1D-C2D	2.68	1.50	1.45
30	08	304	CHL	C1D-C2D	2.68	1.50	1.45
29	1C	505	CLA	C4B-NB	-2.68	1.34	1.37
29	09	317	CLA	MG-NA	-2.68	1.99	2.06
29	04	310	CLA	C4B-NB	-2.68	1.34	1.37
30	00	305	CHL	C1D-C2D	2.68	1.50	1.45
29	00	310	CLA	C3B-C4B	2.68	1.49	1.42
29	04	307	CLA	MG-NA	-2.68	1.99	2.06
30	1S	304	CHL	C3B-C4B	2.68	1.49	1.42
29	1S	312	CLA	C1D-C2D	2.68	1.50	1.45
29	1c	513	CLA	C3D-C2D	2.67	1.46	1.39
29	1B	615	CLA	MG-NA	-2.67	1.99	2.06
29	1c	504	CLA	MG-NA	-2.67	1.99	2.06
29	1A	407	CLA	CHD-C1D	2.67	1.43	1.38
29	1C	511	CLA	C1B-NB	-2.67	1.34	1.37
29	1c	512	CLA	C1B-NB	-2.67	1.34	1.37
29	1c	508	CLA	CHC-C4B	2.67	1.45	1.39
30	08	301	CHL	C3B-C4B	2.67	1.49	1.42
29	1n	602	CLA	C1D-C2D	2.67	1.50	1.45
29	02	611	CLA	C1D-C2D	2.67	1.50	1.45
30	02	604	CHL	C3B-C4B	2.67	1.49	1.42
29	1R	302	CLA	C3B-C4B	2.67	1.49	1.42
29	1g	613	CLA	CHD-C1D	2.67	1.43	1.38
29	03	307	CLA	C3B-C4B	2.67	1.49	1.42
31	1S	318	LUT	C32-C33	-2.67	1.40	1.45
29	09	311	CLA	C1B-NB	-2.67	1.34	1.37
29	1C	504	CLA	C4B-NB	-2.67	1.34	1.37
29	1B	603	CLA	C1D-C2D	2.67	1.50	1.45
29	1c	512	CLA	C3D-C2D	2.67	1.46	1.39
30	1r	307	CHL	C3B-C4B	2.67	1.49	1.42
29	08	306	CLA	C1D-C2D	2.67	1.50	1.45
29	1N	314	CLA	C1B-NB	-2.67	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	605	CLA	MG-NA	-2.67	1.99	2.06
29	03	301	CLA	C3B-C4B	2.67	1.49	1.42
30	03	305	CHL	C3B-C4B	2.67	1.49	1.42
29	06	607	CLA	C4B-NB	-2.67	1.34	1.37
29	1R	308	CLA	C4B-NB	-2.67	1.34	1.37
29	1b	602	CLA	C3B-C4B	2.67	1.49	1.42
29	1B	611	CLA	C1B-C2B	2.67	1.49	1.43
29	1c	503	CLA	C4B-NB	-2.67	1.34	1.37
29	1S	316	CLA	C3B-C4B	2.67	1.49	1.42
29	1c	513	CLA	C1B-C2B	2.67	1.49	1.43
31	1S	317	LUT	C12-C13	-2.67	1.40	1.45
29	1r	303	CLA	C3B-C4B	2.66	1.49	1.42
29	1B	604	CLA	C1D-C2D	2.66	1.50	1.45
29	1A	404	CLA	CHD-C4C	2.66	1.45	1.39
29	1C	504	CLA	CHD-C1D	2.66	1.43	1.38
30	00	305	CHL	C3D-C2D	2.66	1.46	1.39
29	1c	504	CLA	CHC-C4B	2.66	1.45	1.39
29	1c	515	CLA	C1D-C2D	2.66	1.50	1.45
30	1N	302	CHL	C3B-C4B	2.66	1.49	1.42
29	01	301	CLA	C3B-C4B	2.66	1.49	1.42
29	1s	306	CLA	C1B-NB	-2.66	1.34	1.37
29	1A	404	CLA	CHD-C1D	2.66	1.43	1.38
30	05	307	CHL	C3B-C4B	2.66	1.49	1.42
29	1S	313	CLA	MG-NA	-2.66	1.99	2.06
29	02	608	CLA	C1D-C2D	2.66	1.50	1.45
29	08	311	CLA	C1B-NB	-2.66	1.34	1.37
30	1S	309	CHL	C3B-C4B	2.66	1.49	1.42
29	06	602	CLA	C1D-C2D	2.66	1.50	1.45
29	1G	613	CLA	C1D-C2D	2.66	1.50	1.45
30	06	601	CHL	C3B-C4B	2.66	1.49	1.42
30	1S	308	CHL	C3B-C4B	2.66	1.49	1.42
29	1r	309	CLA	MG-NA	-2.66	2.00	2.06
29	09	309	CLA	C1D-C2D	2.66	1.50	1.45
29	1c	513	CLA	C1B-NB	-2.66	1.34	1.37
30	1G	608	CHL	C3B-C4B	2.66	1.49	1.42
30	1r	306	CHL	C3D-C2D	2.66	1.46	1.39
29	1D	404	CLA	CHD-C1D	2.66	1.43	1.38
35	1b	619	BCR	C19-C18	-2.66	1.40	1.45
29	03	301	CLA	MG-NA	-2.66	2.00	2.06
29	1N	311	CLA	MG-NA	-2.66	2.00	2.06
29	1B	605	CLA	C1D-C2D	2.65	1.50	1.45
29	1G	611	CLA	MG-NA	-2.65	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	02	612	CLA	C3B-C4B	2.65	1.49	1.42
35	1b	619	BCR	C12-C13	-2.65	1.40	1.45
29	1R	311	CLA	C4B-NB	-2.65	1.34	1.37
29	05	311	CLA	C3D-C2D	2.65	1.46	1.39
29	1c	510	CLA	CHC-C4B	2.65	1.45	1.39
29	08	311	CLA	C1D-C2D	2.65	1.50	1.45
29	04	308	CLA	C1B-C2B	2.65	1.49	1.43
29	1b	603	CLA	C1D-C2D	2.65	1.50	1.45
29	01	311	CLA	MG-NA	-2.65	2.00	2.06
30	06	603	CHL	C3B-C4B	2.65	1.49	1.42
35	1A	409	BCR	C12-C13	-2.65	1.40	1.45
29	07	310	CLA	C4B-NB	-2.65	1.34	1.37
29	1s	311	CLA	C1D-C2D	2.65	1.50	1.45
29	02	614	CLA	MG-NA	-2.65	2.00	2.06
29	1s	312	CLA	MG-NA	-2.65	2.00	2.06
29	1c	515	CLA	MG-NA	-2.65	2.00	2.06
29	1A	407	CLA	C3B-C4B	2.65	1.49	1.42
29	03	301	CLA	C1D-C2D	2.65	1.50	1.45
29	1G	612	CLA	C4B-NB	-2.65	1.34	1.37
30	00	307	CHL	C3D-C2D	2.65	1.46	1.39
29	03	306	CLA	MG-NA	-2.65	2.00	2.06
29	07	312	CLA	C1D-C2D	2.65	1.50	1.45
29	1b	615	CLA	C3B-C4B	2.65	1.49	1.42
29	1C	508	CLA	C3D-C2D	2.65	1.46	1.39
31	1S	318	LUT	C8-C9	-2.65	1.40	1.45
29	1B	610	CLA	CHD-C1D	2.65	1.43	1.38
29	1B	613	CLA	CHD-C4C	2.64	1.45	1.39
29	1b	605	CLA	C1B-NB	-2.64	1.34	1.37
29	1s	312	CLA	C3B-C4B	2.64	1.49	1.42
29	1G	603	CLA	C1D-C2D	2.64	1.50	1.45
35	1Z	101	BCR	C19-C18	-2.64	1.40	1.45
30	1s	308	CHL	C1D-C2D	2.64	1.50	1.45
29	1S	305	CLA	CHD-C1D	2.64	1.43	1.38
35	1B	618	BCR	C12-C13	-2.64	1.40	1.45
29	1n	604	CLA	C4B-NB	-2.64	1.34	1.37
29	1B	603	CLA	C3D-C2D	2.64	1.46	1.39
29	1r	302	CLA	MG-NA	-2.64	2.00	2.06
29	03	309	CLA	C4B-NB	-2.64	1.34	1.37
29	1C	501	CLA	C3B-C4B	2.64	1.48	1.42
30	1g	601	CHL	C3B-C4B	2.64	1.48	1.42
29	1r	303	CLA	C1D-C2D	2.64	1.50	1.45
29	1b	609	CLA	C3B-C4B	2.64	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1N	303	CLA	MG-NA	-2.64	2.00	2.06
29	1c	511	CLA	C1D-C2D	2.64	1.50	1.45
30	07	303	CHL	C3B-C4B	2.64	1.48	1.42
29	1G	612	CLA	C1B-C2B	2.64	1.49	1.43
29	1G	610	CLA	MG-NA	-2.64	2.00	2.06
29	1D	402	CLA	C1D-C2D	2.64	1.50	1.45
35	1c	516	BCR	C19-C18	-2.64	1.40	1.45
29	09	303	CLA	C1B-NB	-2.64	1.34	1.37
30	1G	609	CHL	C3B-C4B	2.64	1.48	1.42
29	05	310	CLA	MG-NA	-2.64	2.00	2.06
29	1r	308	CLA	MG-NA	-2.64	2.00	2.06
29	1g	610	CLA	C4B-NB	-2.64	1.34	1.37
29	1d	407	CLA	C1D-C2D	2.64	1.50	1.45
29	1g	602	CLA	C1C-C2C	2.64	1.49	1.44
35	1b	620	BCR	C19-C18	-2.64	1.40	1.45
35	1c	516	BCR	C12-C13	-2.64	1.40	1.45
29	1n	603	CLA	C1D-C2D	2.63	1.50	1.45
29	1s	314	CLA	C3B-C4B	2.63	1.48	1.42
29	1R	312	CLA	MG-NA	-2.63	2.00	2.06
29	1N	305	CLA	MG-NA	-2.63	2.00	2.06
30	1r	313	CHL	C3B-C4B	2.63	1.48	1.42
29	03	307	CLA	C1D-C2D	2.63	1.50	1.45
29	1S	316	CLA	C1D-C2D	2.63	1.50	1.45
29	02	613	CLA	MG-NA	-2.63	2.00	2.06
29	1b	617	CLA	C1B-C2B	2.63	1.49	1.43
29	1r	302	CLA	C1D-C2D	2.63	1.50	1.45
29	1b	607	CLA	C4B-NB	-2.63	1.34	1.37
31	1R	315	LUT	C32-C33	-2.63	1.40	1.45
30	02	603	CHL	C3B-C4B	2.63	1.48	1.42
30	1g	605	CHL	C3B-C4B	2.63	1.48	1.42
30	04	305	CHL	C1B-C2B	2.63	1.49	1.43
29	1D	401	CLA	C1D-C2D	2.63	1.50	1.45
30	08	301	CHL	C4C-C3C	2.63	1.49	1.45
29	1G	611	CLA	C1B-NB	-2.63	1.34	1.37
29	1c	510	CLA	CHD-C4C	2.63	1.45	1.39
30	03	303	CHL	C1B-C2B	2.63	1.49	1.43
29	1b	616	CLA	C1D-C2D	2.63	1.50	1.45
29	1b	610	CLA	C4B-NB	-2.63	1.34	1.37
31	09	314	LUT	C28-C29	-2.63	1.40	1.45
35	1d	409	BCR	C23-C22	-2.63	1.40	1.45
29	1N	315	CLA	C4B-NB	-2.62	1.34	1.37
29	1C	513	CLA	C1B-C2B	2.62	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	02	602	CLA	MG-NA	-2.62	2.00	2.06
30	1R	305	CHL	C3B-C4B	2.62	1.48	1.42
29	1R	306	CLA	MG-NA	-2.62	2.00	2.06
29	1D	405	CLA	C4B-NB	-2.62	1.34	1.37
29	1r	303	CLA	MG-NA	-2.62	2.00	2.06
29	1N	313	CLA	C3B-C4B	2.62	1.48	1.42
29	1A	407	CLA	MG-NA	-2.62	2.00	2.06
30	05	313	CHL	C3B-C4B	2.62	1.48	1.42
31	1G	616	LUT	C8-C9	-2.62	1.40	1.45
29	1R	302	CLA	MG-NA	-2.62	2.00	2.06
29	1b	614	CLA	C1B-C2B	2.62	1.49	1.43
29	04	306	CLA	C1D-C2D	2.62	1.50	1.45
30	1s	308	CHL	C3B-C4B	2.62	1.48	1.42
29	05	311	CLA	C4B-NB	-2.62	1.34	1.37
29	00	310	CLA	MG-NA	-2.62	2.00	2.06
29	08	310	CLA	C4B-NB	-2.62	1.34	1.37
29	1r	308	CLA	C1B-NB	-2.62	1.34	1.37
29	1c	506	CLA	MG-NA	-2.62	2.00	2.06
29	1D	402	CLA	C1B-NB	-2.62	1.34	1.37
29	1S	312	CLA	MG-NA	-2.62	2.00	2.06
29	1B	605	CLA	C1B-NB	-2.62	1.34	1.37
29	1c	509	CLA	C1D-C2D	2.62	1.50	1.45
29	1s	315	CLA	MG-NA	-2.61	2.00	2.06
29	1S	314	CLA	C3B-C4B	2.61	1.48	1.42
29	02	612	CLA	C1B-C2B	2.61	1.49	1.43
29	02	612	CLA	C4B-NB	-2.61	1.34	1.37
30	1n	601	CHL	C3D-C2D	2.61	1.46	1.39
30	1R	313	CHL	C3B-C4B	2.61	1.48	1.42
30	02	606	CHL	C3B-C4B	2.61	1.48	1.42
29	03	310	CLA	C4B-NB	-2.61	1.34	1.37
30	05	306	CHL	C3B-C4B	2.61	1.48	1.42
35	1B	630	BCR	C19-C18	-2.61	1.40	1.45
29	08	306	CLA	MG-NA	-2.61	2.00	2.06
29	1b	615	CLA	MG-NA	-2.61	2.00	2.06
29	01	308	CLA	C1D-C2D	2.61	1.50	1.45
29	1g	602	CLA	MG-NA	-2.61	2.00	2.06
35	04	313	BCR	C12-C13	-2.61	1.40	1.45
29	1G	604	CLA	MG-NA	-2.61	2.00	2.06
29	1c	505	CLA	C3B-C4B	2.61	1.48	1.42
29	1C	507	CLA	CHC-C4B	2.61	1.45	1.39
30	03	302	CHL	C3B-C4B	2.61	1.48	1.42
29	1s	306	CLA	MG-NA	-2.61	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	00	312	CLA	C1D-C2D	2.61	1.50	1.45
29	1b	607	CLA	C1B-NB	-2.61	1.34	1.37
29	1c	504	CLA	C1B-NB	-2.61	1.34	1.37
29	1s	307	CLA	C1D-C2D	2.61	1.50	1.45
29	07	308	CLA	C1D-C2D	2.61	1.50	1.45
29	1b	608	CLA	CHC-C4B	2.61	1.45	1.39
29	03	306	CLA	C4B-NB	-2.61	1.34	1.37
29	02	602	CLA	C1B-C2B	2.61	1.49	1.43
29	1B	607	CLA	C1D-C2D	2.61	1.50	1.45
31	01	315	LUT	C32-C33	-2.61	1.40	1.45
30	07	306	CHL	C3B-C4B	2.61	1.48	1.42
29	05	301	CLA	MG-NA	-2.61	2.00	2.06
35	1B	618	BCR	C19-C18	-2.61	1.40	1.45
31	00	314	LUT	C28-C29	-2.61	1.40	1.45
29	04	311	CLA	MG-NA	-2.61	2.00	2.06
29	01	309	CLA	C1B-NB	-2.61	1.34	1.37
29	03	306	CLA	C1D-C2D	2.61	1.50	1.45
29	1g	602	CLA	C3B-C4B	2.61	1.48	1.42
29	07	307	CLA	C1B-NB	-2.60	1.34	1.37
29	1C	503	CLA	C3B-C4B	2.60	1.48	1.42
29	1n	604	CLA	MG-NA	-2.60	2.00	2.06
29	1a	405	CLA	CHD-C4C	2.60	1.45	1.39
29	1C	510	CLA	C1B-NB	-2.60	1.34	1.37
30	07	305	CHL	C3B-C4B	2.60	1.48	1.42
29	01	311	CLA	C1B-NB	-2.60	1.34	1.37
31	1s	317	LUT	C32-C33	-2.60	1.40	1.45
29	1r	311	CLA	MG-NA	-2.60	2.00	2.06
29	1c	508	CLA	MG-NA	-2.60	2.00	2.06
29	1c	513	CLA	C1D-C2D	2.60	1.50	1.45
29	00	312	CLA	C1B-C2B	2.60	1.49	1.43
29	1n	613	CLA	CHB-C4A	-2.60	1.31	1.37
29	1s	306	CLA	C3B-C4B	2.60	1.48	1.42
29	05	303	CLA	MG-NA	-2.60	2.00	2.06
29	1g	612	CLA	MG-NA	-2.60	2.00	2.06
29	1C	510	CLA	C1B-C2B	2.60	1.49	1.43
30	00	304	CHL	C3B-C4B	2.60	1.48	1.42
29	1B	603	CLA	MG-NA	-2.60	2.00	2.06
29	1R	312	CLA	C1D-C2D	2.60	1.50	1.45
31	09	313	LUT	C28-C29	-2.60	1.40	1.45
30	1G	605	CHL	C3B-C4B	2.60	1.48	1.42
29	02	613	CLA	C1B-C2B	2.59	1.49	1.43
29	01	307	CLA	C1D-C2D	2.59	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	06	611	CLA	C4B-NB	-2.59	1.34	1.37
29	1g	611	CLA	C3B-C4B	2.59	1.48	1.42
30	07	304	CHL	C3B-C4B	2.59	1.48	1.42
29	1B	609	CLA	MG-NA	-2.59	2.00	2.06
29	08	308	CLA	C3B-C4B	2.59	1.48	1.42
29	1b	611	CLA	C1D-C2D	2.59	1.50	1.45
30	1G	609	CHL	C4C-C3C	2.59	1.49	1.45
29	1N	304	CLA	C1B-C2B	2.59	1.49	1.43
29	08	307	CLA	C3B-C4B	2.59	1.48	1.42
29	09	310	CLA	C1B-C2B	2.59	1.49	1.43
30	04	304	CHL	C3B-C4B	2.59	1.48	1.42
30	08	304	CHL	C3B-C4B	2.59	1.48	1.42
29	1n	603	CLA	C1B-C2B	2.59	1.49	1.43
29	03	310	CLA	MG-NA	-2.59	2.00	2.06
35	1Z	102	BCR	C19-C18	-2.59	1.40	1.45
29	07	301	CLA	MG-NA	-2.59	2.00	2.06
29	02	614	CLA	C3B-C4B	2.59	1.48	1.42
31	03	313	LUT	C28-C29	-2.59	1.40	1.45
29	1b	614	CLA	C4D-ND	2.59	1.41	1.37
29	1b	606	CLA	C3D-C2D	2.59	1.46	1.39
29	1C	509	CLA	C3D-C2D	2.59	1.46	1.39
29	1B	613	CLA	OBD-CAD	2.59	1.26	1.22
30	05	304	CHL	CHC-C4B	2.59	1.45	1.39
29	1r	310	CLA	C1D-C2D	2.59	1.50	1.45
35	1I	102	BCR	C19-C18	-2.59	1.40	1.45
29	01	308	CLA	MG-NA	-2.59	2.00	2.06
29	09	309	CLA	C3B-C4B	2.58	1.48	1.42
29	1n	603	CLA	MG-NA	-2.58	2.00	2.06
29	1C	508	CLA	C1D-C2D	2.58	1.50	1.45
30	08	305	CHL	C3B-C4B	2.58	1.48	1.42
30	1n	605	CHL	C3B-C4B	2.58	1.48	1.42
29	09	317	CLA	C1B-C2B	2.58	1.49	1.43
29	1C	509	CLA	C1B-C2B	2.58	1.49	1.43
30	09	304	CHL	C1B-C2B	2.58	1.49	1.43
29	1b	617	CLA	C1B-NB	-2.58	1.34	1.37
29	1C	502	CLA	C1B-NB	-2.58	1.34	1.37
30	01	302	CHL	C3B-C4B	2.58	1.48	1.42
35	1A	409	BCR	C19-C18	-2.58	1.40	1.45
30	06	605	CHL	C1B-C2B	2.58	1.49	1.43
29	1g	613	CLA	CHD-C4C	2.58	1.45	1.39
29	08	312	CLA	C4B-NB	-2.58	1.34	1.37
29	1B	604	CLA	C4B-NB	-2.58	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1g	612	CLA	C1B-NB	-2.58	1.34	1.37
29	1b	602	CLA	C1D-C2D	2.58	1.50	1.45
30	09	308	CHL	C1B-C2B	2.58	1.49	1.43
29	1d	406	CLA	MG-NA	-2.58	2.00	2.06
30	04	305	CHL	C3B-C4B	2.58	1.48	1.42
29	09	317	CLA	C1C-C2C	2.58	1.49	1.44
29	06	607	CLA	MG-NA	-2.58	2.00	2.06
30	02	601	CHL	C1B-C2B	2.58	1.49	1.43
29	1R	306	CLA	C4B-NB	-2.58	1.34	1.37
29	1G	612	CLA	MG-NA	-2.58	2.00	2.06
29	1R	312	CLA	C3B-C4B	2.58	1.48	1.42
29	1r	304	CLA	C3B-C4B	2.58	1.48	1.42
30	1S	307	CHL	C3B-C4B	2.58	1.48	1.42
29	1C	511	CLA	CHD-C4C	2.58	1.45	1.39
29	1B	614	CLA	C1B-NB	-2.58	1.34	1.37
29	1R	314	CLA	C1B-NB	-2.58	1.34	1.37
29	03	308	CLA	C1B-C2B	2.58	1.49	1.43
29	08	307	CLA	MG-NA	-2.58	2.00	2.06
29	03	301	CLA	C1B-C2B	2.57	1.49	1.43
30	03	303	CHL	C4C-C3C	2.57	1.49	1.45
29	1B	611	CLA	CHD-C1D	2.57	1.43	1.38
29	1a	406	CLA	C1B-NB	-2.57	1.34	1.37
29	1r	304	CLA	C1D-C2D	2.57	1.50	1.45
29	06	610	CLA	C1B-C2B	2.57	1.49	1.43
29	1r	312	CLA	C1B-C2B	2.57	1.49	1.43
29	1A	407	CLA	C4B-NB	-2.57	1.34	1.37
30	1S	309	CHL	C4C-C3C	2.57	1.49	1.45
29	08	306	CLA	C1B-C2B	2.57	1.49	1.43
29	1R	308	CLA	C1D-C2D	2.57	1.50	1.45
29	01	301	CLA	C1B-NB	-2.57	1.34	1.37
29	1G	603	CLA	C4B-NB	-2.57	1.34	1.37
29	1N	315	CLA	C1B-C2B	2.57	1.49	1.43
29	06	610	CLA	MG-NA	-2.57	2.00	2.06
29	07	312	CLA	MG-NA	-2.57	2.00	2.06
29	09	309	CLA	C1B-NB	-2.57	1.34	1.37
29	1r	302	CLA	C3B-C4B	2.57	1.48	1.42
29	09	310	CLA	MG-NA	-2.57	2.00	2.06
29	05	301	CLA	C1D-C2D	2.57	1.50	1.45
29	1B	613	CLA	C3D-C2D	2.57	1.46	1.39
30	02	607	CHL	C3B-C4B	2.57	1.48	1.42
29	01	310	CLA	MG-NA	-2.57	2.00	2.06
29	1S	312	CLA	C1B-C2B	2.57	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	03	312	CLA	C1D-C2D	2.57	1.50	1.45
29	1g	603	CLA	C1B-C2B	2.57	1.49	1.43
29	07	308	CLA	C1B-C2B	2.57	1.49	1.43
29	1b	614	CLA	C1B-NB	-2.57	1.34	1.37
29	1b	606	CLA	C1B-C2B	2.57	1.49	1.43
29	1g	613	CLA	C1B-C2B	2.57	1.49	1.43
29	01	311	CLA	C1D-C2D	2.57	1.50	1.45
29	1s	313	CLA	MG-NA	-2.57	2.00	2.06
29	08	308	CLA	MG-NA	-2.57	2.00	2.06
29	1d	406	CLA	C3D-C2D	2.57	1.46	1.39
29	1B	616	CLA	C4B-NB	-2.56	1.34	1.37
29	1G	613	CLA	C1B-NB	-2.56	1.34	1.37
31	00	314	LUT	C32-C33	-2.56	1.40	1.45
29	01	313	CLA	C1B-C2B	2.56	1.49	1.43
29	00	309	CLA	C1D-C2D	2.56	1.50	1.45
29	1C	510	CLA	C1D-C2D	2.56	1.50	1.45
35	1k	102	BCR	C12-C13	-2.56	1.40	1.45
30	1g	607	CHL	C1D-C2D	2.56	1.50	1.45
29	04	307	CLA	C1B-C2B	2.56	1.49	1.43
29	1b	609	CLA	C4B-NB	-2.56	1.34	1.37
29	1C	508	CLA	C1B-C2B	2.56	1.49	1.43
29	1b	612	CLA	MG-NA	-2.56	2.00	2.06
29	08	309	CLA	C1B-C2B	2.56	1.49	1.43
29	1B	602	CLA	C4B-NB	-2.56	1.34	1.37
30	06	606	CHL	C3B-C4B	2.56	1.48	1.42
29	1c	503	CLA	MG-NA	-2.56	2.00	2.06
29	1s	311	CLA	MG-NA	-2.56	2.00	2.06
29	04	311	CLA	C1B-C2B	2.56	1.49	1.43
30	07	311	CHL	C1B-C2B	2.56	1.49	1.43
29	03	310	CLA	C3B-C4B	2.56	1.48	1.42
30	1R	305	CHL	C1B-C2B	2.56	1.49	1.43
29	1b	611	CLA	C3B-C4B	2.56	1.48	1.42
29	04	310	CLA	MG-NA	-2.56	2.00	2.06
29	02	609	CLA	MG-NA	-2.56	2.00	2.06
29	1g	603	CLA	C1D-C2D	2.56	1.50	1.45
29	09	317	CLA	C4B-NB	-2.55	1.34	1.37
29	03	309	CLA	C1B-NB	-2.55	1.34	1.37
29	1B	607	CLA	CHC-C4B	2.55	1.45	1.39
29	01	313	CLA	MG-NA	-2.55	2.00	2.06
35	1b	601	BCR	C19-C18	-2.55	1.40	1.45
29	08	306	CLA	C3B-C4B	2.55	1.48	1.42
30	02	607	CHL	C4C-C3C	2.55	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	1Z	102	BCR	C12-C13	-2.55	1.40	1.45
29	01	301	CLA	MG-NA	-2.55	2.00	2.06
40	1E	102	PL9	C6-C5	2.55	1.48	1.35
29	1s	314	CLA	C1B-C2B	2.55	1.49	1.43
29	1C	513	CLA	CHD-C1D	2.55	1.43	1.38
29	01	307	CLA	MG-NA	-2.55	2.00	2.06
29	1b	614	CLA	C3D-C2D	2.55	1.46	1.39
29	1s	315	CLA	C1B-C2B	2.55	1.49	1.43
30	04	301	CHL	C1D-C2D	2.55	1.50	1.45
30	02	601	CHL	C3B-C4B	2.55	1.48	1.42
31	01	315	LUT	C12-C13	-2.55	1.40	1.45
29	1s	315	CLA	C1D-C2D	2.55	1.50	1.45
29	1S	315	CLA	MG-NA	-2.55	2.00	2.06
29	00	318	CLA	C1B-C2B	2.55	1.49	1.43
29	00	302	CLA	MG-NA	-2.55	2.00	2.06
29	1d	403	CLA	C1B-C2B	2.55	1.49	1.43
29	1a	408	CLA	C4B-NB	-2.55	1.34	1.37
29	1g	610	CLA	C1B-NB	-2.55	1.34	1.37
29	09	311	CLA	C3B-C4B	2.55	1.48	1.42
29	03	308	CLA	C4C-C3C	2.55	1.49	1.45
31	1G	615	LUT	C32-C33	-2.55	1.40	1.45
29	09	302	CLA	C1D-C2D	2.55	1.50	1.45
29	1r	303	CLA	C1B-C2B	2.55	1.49	1.43
29	03	307	CLA	C1B-C2B	2.55	1.49	1.43
29	1N	313	CLA	MG-NA	-2.55	2.00	2.06
29	1b	610	CLA	C3B-C4B	2.55	1.48	1.42
29	09	309	CLA	C4B-NB	-2.55	1.34	1.37
29	1n	604	CLA	C1B-NB	-2.55	1.34	1.37
29	1B	612	CLA	MG-NA	-2.55	2.00	2.06
29	07	310	CLA	C3B-C4B	2.54	1.48	1.42
29	00	318	CLA	MG-NA	-2.54	2.00	2.06
29	1b	603	CLA	CHC-C4B	2.54	1.45	1.39
45	1E	103	HEM	C3C-C4C	-2.54	1.41	1.46
29	1C	502	CLA	C1B-C2B	2.54	1.49	1.43
29	07	308	CLA	C3B-C4B	2.54	1.48	1.42
29	1g	612	CLA	C3B-C4B	2.54	1.48	1.42
29	1s	306	CLA	C4D-ND	2.54	1.41	1.37
29	01	309	CLA	C4B-NB	-2.54	1.34	1.37
29	1G	603	CLA	MG-NA	-2.54	2.00	2.06
29	1N	312	CLA	C1B-C2B	2.54	1.49	1.43
29	1s	305	CLA	C3B-C4B	2.54	1.48	1.42
31	07	313	LUT	C32-C33	-2.54	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	06	609	CLA	C1B-C2B	2.54	1.49	1.43
30	1R	304	CHL	C3B-C4B	2.54	1.48	1.42
29	05	302	CLA	C1B-NB	-2.54	1.34	1.37
29	1S	313	CLA	C1D-C2D	2.54	1.50	1.45
29	02	610	CLA	MG-NA	-2.54	2.00	2.06
29	1r	304	CLA	MG-NA	-2.54	2.00	2.06
29	00	310	CLA	C1D-C2D	2.54	1.50	1.45
29	1s	314	CLA	C1D-C2D	2.54	1.50	1.45
29	1C	513	CLA	MG-NA	-2.54	2.00	2.06
29	1n	610	CLA	CHC-C4B	2.54	1.45	1.39
29	1b	605	CLA	C3D-C2D	2.54	1.46	1.39
29	1b	616	CLA	C3B-C4B	2.54	1.48	1.42
30	1s	304	CHL	C3B-C4B	2.54	1.48	1.42
29	00	301	CLA	MG-NA	-2.54	2.00	2.06
29	03	307	CLA	MG-NA	-2.54	2.00	2.06
29	1N	312	CLA	MG-NA	-2.54	2.00	2.06
29	02	610	CLA	C1B-NB	-2.54	1.34	1.37
29	1G	603	CLA	C3B-C4B	2.54	1.48	1.42
29	1S	306	CLA	C1B-C2B	2.54	1.49	1.43
29	1R	310	CLA	C1B-C2B	2.54	1.49	1.43
29	1s	313	CLA	C1B-NB	-2.54	1.34	1.37
29	1n	614	CLA	C1B-C2B	2.53	1.49	1.43
29	1c	507	CLA	C1D-C2D	2.53	1.50	1.45
29	1g	611	CLA	C1B-C2B	2.53	1.49	1.43
30	02	603	CHL	C1B-C2B	2.53	1.49	1.43
29	1r	311	CLA	C1B-C2B	2.53	1.49	1.43
29	1c	515	CLA	C1B-NB	-2.53	1.34	1.37
29	04	308	CLA	MG-NA	-2.53	2.00	2.06
29	1R	310	CLA	MG-NA	-2.53	2.00	2.06
29	1n	612	CLA	C1B-C2B	2.53	1.49	1.43
29	09	310	CLA	C1B-NB	-2.53	1.34	1.37
29	1D	404	CLA	MG-NA	-2.53	2.00	2.06
29	05	309	CLA	MG-NA	-2.53	2.00	2.06
29	1a	408	CLA	C1B-NB	-2.53	1.34	1.37
30	1G	605	CHL	C1B-C2B	2.53	1.49	1.43
29	07	302	CLA	C1B-NB	-2.53	1.34	1.37
29	05	303	CLA	C3B-C4B	2.53	1.48	1.42
29	1G	612	CLA	C1D-C2D	2.53	1.50	1.45
29	1b	608	CLA	C1D-C2D	2.53	1.50	1.45
29	1c	514	CLA	C1B-C2B	2.53	1.49	1.43
29	1B	606	CLA	C4B-NB	-2.53	1.34	1.37
29	1B	611	CLA	C1B-NB	-2.53	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	09	317	CLA	C3B-C4B	2.53	1.48	1.42
35	1j	101	BCR	C23-C22	-2.53	1.40	1.45
29	1B	613	CLA	C1B-C2B	2.53	1.49	1.43
30	05	313	CHL	C1B-C2B	2.53	1.49	1.43
29	00	301	CLA	C4B-NB	-2.53	1.34	1.37
29	05	302	CLA	C1D-C2D	2.53	1.50	1.45
29	1B	616	CLA	C3B-C4B	2.53	1.48	1.42
29	1C	506	CLA	MG-NA	-2.53	2.00	2.06
29	1d	407	CLA	C1B-NB	-2.53	1.34	1.37
29	01	308	CLA	C1B-C2B	2.53	1.49	1.43
40	1e	101	PL9	C6-C5	2.52	1.48	1.35
29	1g	611	CLA	MG-NA	-2.52	2.00	2.06
29	1g	613	CLA	MG-NA	-2.52	2.00	2.06
29	1c	504	CLA	C1B-C2B	2.52	1.49	1.43
29	01	307	CLA	C3B-C4B	2.52	1.48	1.42
30	05	315	CHL	C3B-C4B	2.52	1.48	1.42
29	02	608	CLA	MG-NA	-2.52	2.00	2.06
29	01	310	CLA	C1B-C2B	2.52	1.49	1.43
30	08	304	CHL	C1B-C2B	2.52	1.49	1.43
29	04	306	CLA	MG-NA	-2.52	2.00	2.06
29	1n	611	CLA	C1B-NB	-2.52	1.34	1.37
29	1s	314	CLA	C1B-NB	-2.52	1.34	1.37
30	06	603	CHL	C1B-C2B	2.52	1.49	1.43
29	1G	611	CLA	C3B-C4B	2.52	1.48	1.42
29	1N	314	CLA	C1B-C2B	2.52	1.49	1.43
29	1R	311	CLA	C1B-C2B	2.52	1.49	1.43
29	00	311	CLA	C1B-C2B	2.52	1.49	1.43
29	1s	305	CLA	MG-NA	-2.52	2.00	2.06
29	1C	511	CLA	CHD-C1D	2.52	1.43	1.38
29	1d	406	CLA	C4B-NB	-2.52	1.34	1.37
29	08	310	CLA	MG-NA	-2.52	2.00	2.06
30	1n	605	CHL	C4C-C3C	2.52	1.49	1.45
29	1g	613	CLA	C3B-C4B	2.52	1.48	1.42
29	1R	309	CLA	C4D-ND	2.52	1.41	1.37
29	1g	614	CLA	C1B-C2B	2.52	1.49	1.43
29	1C	503	CLA	C1D-C2D	2.52	1.50	1.45
29	1n	612	CLA	MG-NA	-2.52	2.00	2.06
29	1N	313	CLA	C1B-C2B	2.52	1.49	1.43
29	00	311	CLA	C1B-NB	-2.52	1.34	1.37
29	04	306	CLA	C3B-C4B	2.52	1.48	1.42
29	1A	404	CLA	C3D-C2D	2.52	1.46	1.39
29	1n	611	CLA	MG-NA	-2.52	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	04	312	CLA	C1B-C2B	2.52	1.49	1.43
35	1a	409	BCR	C12-C13	-2.52	1.40	1.45
29	03	308	CLA	C3B-C4B	2.52	1.48	1.42
29	06	611	CLA	MG-NA	-2.52	2.00	2.06
29	1N	303	CLA	C1B-C2B	2.52	1.49	1.43
29	02	611	CLA	MG-NA	-2.52	2.00	2.06
30	06	601	CHL	C1B-C2B	2.52	1.49	1.43
29	00	318	CLA	C3B-C4B	2.52	1.48	1.42
29	1r	302	CLA	C1B-NB	-2.52	1.34	1.37
29	1r	312	CLA	C4B-NB	-2.52	1.34	1.37
29	1B	616	CLA	C1B-NB	-2.52	1.34	1.37
29	07	307	CLA	MG-NA	-2.51	2.00	2.06
29	00	310	CLA	C1B-C2B	2.51	1.49	1.43
30	1N	310	CHL	C3B-C4B	2.51	1.48	1.42
30	1n	607	CHL	C3B-C4B	2.51	1.48	1.42
31	1R	315	LUT	C28-C29	-2.51	1.40	1.45
29	00	311	CLA	C3B-C4B	2.51	1.48	1.42
29	1B	615	CLA	C1B-C2B	2.51	1.49	1.43
29	1s	311	CLA	C1B-C2B	2.51	1.49	1.43
29	03	312	CLA	C1B-C2B	2.51	1.49	1.43
29	1B	616	CLA	C3D-C2D	2.51	1.46	1.39
29	1n	613	CLA	C1D-C2D	2.51	1.50	1.45
29	1r	312	CLA	MG-NA	-2.51	2.00	2.06
29	1g	602	CLA	C1B-NB	-2.51	1.34	1.37
29	02	609	CLA	C1B-C2B	2.51	1.49	1.43
29	05	309	CLA	C1B-C2B	2.51	1.49	1.43
29	1g	604	CLA	MG-NA	-2.51	2.00	2.06
29	1n	614	CLA	MG-NA	-2.51	2.00	2.06
29	1g	604	CLA	C1B-NB	-2.51	1.34	1.37
29	02	602	CLA	C1D-C2D	2.51	1.50	1.45
29	1G	614	CLA	C1B-C2B	2.51	1.49	1.43
30	00	304	CHL	C1B-C2B	2.51	1.49	1.43
30	1g	609	CHL	C4C-C3C	2.51	1.49	1.45
29	09	310	CLA	C1D-C2D	2.51	1.50	1.45
29	1C	502	CLA	CHC-C4B	2.51	1.45	1.39
29	1b	616	CLA	C1B-NB	-2.51	1.34	1.37
29	1g	613	CLA	C1B-NB	-2.51	1.34	1.37
29	06	608	CLA	MG-NA	-2.51	2.00	2.06
29	02	610	CLA	C1B-C2B	2.51	1.49	1.43
29	02	602	CLA	C1B-NB	-2.51	1.34	1.37
29	1g	614	CLA	C4B-NB	-2.51	1.34	1.37
29	1G	610	CLA	C1C-C2C	2.51	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	02	614	CLA	C1B-C2B	2.51	1.49	1.43
29	1b	613	CLA	C3B-C4B	2.51	1.48	1.42
29	07	310	CLA	MG-NA	-2.51	2.00	2.06
29	1B	603	CLA	C3B-C4B	2.50	1.48	1.42
29	00	312	CLA	MG-NA	-2.50	2.00	2.06
29	1S	316	CLA	MG-NA	-2.50	2.00	2.06
30	1r	307	CHL	C1B-C2B	2.50	1.49	1.43
29	1r	314	CLA	C1B-C2B	2.50	1.49	1.43
29	01	309	CLA	MG-NA	-2.50	2.00	2.06
29	03	312	CLA	MG-NA	-2.50	2.00	2.06
29	06	608	CLA	C1B-C2B	2.50	1.49	1.43
30	1S	309	CHL	C1B-C2B	2.50	1.49	1.43
29	1B	612	CLA	C1D-C2D	2.50	1.50	1.45
30	00	306	CHL	C1D-C2D	2.50	1.50	1.45
29	07	309	CLA	C1B-C2B	2.50	1.49	1.43
29	00	301	CLA	C1B-NB	-2.50	1.34	1.37
30	04	304	CHL	C1B-C2B	2.50	1.49	1.43
29	1R	308	CLA	MG-NA	-2.50	2.00	2.06
29	03	301	CLA	C1B-NB	-2.50	1.34	1.37
30	03	302	CHL	C1B-C2B	2.50	1.49	1.43
29	1g	610	CLA	C3B-C4B	2.50	1.48	1.42
29	1S	310	CLA	C1B-NB	-2.50	1.34	1.37
35	04	313	BCR	C19-C18	-2.50	1.40	1.45
29	1R	309	CLA	C1B-NB	-2.50	1.34	1.37
29	04	312	CLA	MG-NA	-2.50	2.00	2.06
29	1a	405	CLA	C1D-C2D	2.50	1.50	1.45
29	1B	610	CLA	C3D-C2D	2.50	1.45	1.39
29	1s	305	CLA	C1B-NB	-2.50	1.34	1.37
29	04	310	CLA	C1B-C2B	2.50	1.49	1.43
30	08	305	CHL	C1B-C2B	2.49	1.49	1.43
29	1n	613	CLA	MG-NA	-2.49	2.00	2.06
30	1G	607	CHL	C1B-C2B	2.49	1.49	1.43
29	1S	314	CLA	MG-NA	-2.49	2.00	2.06
30	1S	308	CHL	C1B-C2B	2.49	1.49	1.43
31	00	313	LUT	C32-C33	-2.49	1.40	1.45
29	1b	606	CLA	C3B-C4B	2.49	1.48	1.42
29	1n	611	CLA	C1D-C2D	2.49	1.50	1.45
29	05	310	CLA	C1B-NB	-2.49	1.34	1.37
30	02	606	CHL	C1B-C2B	2.49	1.49	1.43
31	00	313	LUT	C28-C29	-2.49	1.40	1.45
29	1c	513	CLA	MG-NA	-2.49	2.00	2.06
35	1Z	101	BCR	C12-C13	-2.49	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	602	CLA	MG-NA	-2.49	2.00	2.06
29	1S	315	CLA	C4D-ND	2.49	1.41	1.37
40	1a	412	PL9	C6-C5	2.49	1.48	1.35
35	1B	619	BCR	C12-C13	-2.49	1.40	1.45
30	1R	303	CHL	C3B-C4B	2.49	1.48	1.42
29	1C	505	CLA	C3D-C2D	2.49	1.45	1.39
45	1f	101	HEM	C1C-C2C	-2.49	1.40	1.45
29	1s	314	CLA	MG-NA	-2.49	2.00	2.06
29	1s	316	CLA	MG-NA	-2.49	2.00	2.06
29	1r	314	CLA	C1B-NB	-2.49	1.34	1.37
30	1N	307	CHL	C3B-C4B	2.49	1.48	1.42
30	1N	308	CHL	C3B-C4B	2.49	1.48	1.42
29	09	312	CLA	C1B-C2B	2.49	1.49	1.43
29	1B	601	CLA	C1D-C2D	2.49	1.50	1.45
35	1B	619	BCR	C19-C18	-2.49	1.40	1.45
29	1c	503	CLA	C1B-NB	-2.49	1.34	1.37
29	1G	614	CLA	MG-NA	-2.49	2.00	2.06
29	1S	311	CLA	MG-NA	-2.49	2.00	2.06
29	1s	307	CLA	C1B-NB	-2.49	1.34	1.37
29	1c	514	CLA	C3B-C4B	2.49	1.48	1.42
31	1S	317	LUT	C32-C33	-2.49	1.40	1.45
29	00	312	CLA	C3B-C4B	2.49	1.48	1.42
30	1g	605	CHL	C1B-C2B	2.49	1.49	1.43
29	1r	311	CLA	C3B-C4B	2.49	1.48	1.42
29	1s	316	CLA	C3B-C4B	2.49	1.48	1.42
30	1n	609	CHL	C3B-C4B	2.49	1.48	1.42
30	07	305	CHL	C1B-C2B	2.49	1.49	1.43
30	1g	609	CHL	C1B-C2B	2.49	1.49	1.43
29	1s	307	CLA	MG-NA	-2.49	2.00	2.06
30	06	604	CHL	C1B-C2B	2.49	1.49	1.43
29	1d	403	CLA	C4B-NB	-2.49	1.34	1.37
29	1G	613	CLA	C1B-C2B	2.49	1.49	1.43
30	06	606	CHL	C1B-C2B	2.48	1.49	1.43
29	05	311	CLA	C1B-NB	-2.48	1.34	1.37
29	1N	311	CLA	C1B-C2B	2.48	1.49	1.43
30	01	303	CHL	C1D-C2D	2.48	1.50	1.45
29	1C	506	CLA	C3B-C4B	2.48	1.48	1.42
29	04	307	CLA	C3B-C4B	2.48	1.48	1.42
30	05	306	CHL	C1B-C2B	2.48	1.49	1.43
29	00	310	CLA	C1B-NB	-2.48	1.34	1.37
29	1D	405	CLA	C1B-NB	-2.48	1.34	1.37
30	1n	601	CHL	C1B-NB	-2.48	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	07	307	CLA	C1B-C2B	2.48	1.49	1.43
29	1R	309	CLA	MG-NC	2.48	2.12	2.06
29	1n	611	CLA	C1B-C2B	2.48	1.49	1.43
29	1B	612	CLA	C3B-C4B	2.48	1.48	1.42
30	06	601	CHL	C4C-C3C	2.48	1.49	1.45
30	1S	307	CHL	C4C-C3C	2.48	1.49	1.45
29	04	311	CLA	C1B-NB	-2.48	1.34	1.37
29	1S	306	CLA	MG-NA	-2.48	2.00	2.06
29	1g	614	CLA	C1B-NB	-2.48	1.34	1.37
30	1s	310	CHL	C4C-C3C	2.48	1.49	1.45
29	1b	616	CLA	C1B-C2B	2.48	1.49	1.43
29	1c	507	CLA	C3D-C2D	2.48	1.45	1.39
30	07	306	CHL	C1B-C2B	2.48	1.49	1.43
30	1n	605	CHL	C1B-C2B	2.48	1.49	1.43
30	03	311	CHL	C3B-C4B	2.48	1.48	1.42
29	04	306	CLA	C1B-NB	-2.48	1.34	1.37
29	07	301	CLA	C1D-C2D	2.47	1.50	1.45
29	1N	305	CLA	C1B-NB	-2.47	1.34	1.37
29	1R	309	CLA	MG-NB	-2.47	2.00	2.05
29	1G	602	CLA	MG-NA	-2.47	2.00	2.06
29	1g	612	CLA	C1B-C2B	2.47	1.49	1.43
31	1G	615	LUT	C28-C29	-2.47	1.40	1.45
30	1G	601	CHL	C3B-C4B	2.47	1.48	1.42
29	1G	614	CLA	C1B-NB	-2.47	1.34	1.37
29	03	306	CLA	C1B-NB	-2.47	1.34	1.37
29	1B	604	CLA	C1B-C2B	2.47	1.49	1.43
30	00	308	CHL	C1B-C2B	2.47	1.49	1.43
29	1R	307	CLA	C1D-C2D	2.47	1.50	1.45
29	06	608	CLA	C1B-NB	-2.47	1.34	1.37
29	1S	305	CLA	MG-NA	-2.47	2.00	2.06
29	1b	605	CLA	C3B-C4B	2.47	1.48	1.42
29	1S	316	CLA	C1B-C2B	2.47	1.49	1.43
29	1b	603	CLA	C1B-C2B	2.47	1.49	1.43
45	1f	101	HEM	FE-ND	-2.47	1.87	1.94
29	08	310	CLA	C1B-NB	-2.47	1.34	1.37
29	1b	602	CLA	C1B-NB	-2.47	1.34	1.37
35	1H	101	BCR	C12-C13	-2.47	1.40	1.45
29	1R	311	CLA	C1B-NB	-2.47	1.34	1.37
29	08	312	CLA	C3B-C4B	2.47	1.48	1.42
29	04	309	CLA	C1B-NB	-2.47	1.34	1.37
30	07	303	CHL	C1B-C2B	2.47	1.49	1.43
29	1G	614	CLA	C1D-C2D	2.47	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	07	312	CLA	C1B-C2B	2.46	1.49	1.43
29	03	312	CLA	C1B-NB	-2.46	1.34	1.37
29	1b	606	CLA	C1B-NB	-2.46	1.34	1.37
29	01	312	CLA	MG-NA	-2.46	2.00	2.06
29	01	312	CLA	C4C-C3C	2.46	1.49	1.45
29	1G	611	CLA	C1D-C2D	2.46	1.50	1.45
29	1C	508	CLA	C1B-NB	-2.46	1.34	1.37
29	1N	304	CLA	C1B-NB	-2.46	1.34	1.37
29	1r	303	CLA	C1B-NB	-2.46	1.34	1.37
30	07	304	CHL	C1B-C2B	2.46	1.49	1.43
29	1b	609	CLA	MG-NA	-2.46	2.00	2.06
30	03	304	CHL	C3B-C4B	2.46	1.48	1.42
29	1R	312	CLA	C1B-C2B	2.46	1.49	1.43
30	01	302	CHL	C1B-C2B	2.46	1.49	1.43
30	02	604	CHL	C1B-C2B	2.46	1.49	1.43
29	00	303	CLA	MG-NA	-2.46	2.00	2.06
29	06	609	CLA	MG-NA	-2.46	2.00	2.06
29	04	308	CLA	C3B-C4B	2.46	1.48	1.42
31	01	314	LUT	C32-C33	-2.46	1.40	1.45
30	1r	306	CHL	C1B-C2B	2.46	1.49	1.43
29	03	309	CLA	MG-NA	-2.46	2.00	2.06
29	1B	613	CLA	CHD-C1D	2.46	1.43	1.38
29	03	306	CLA	C1B-C2B	2.46	1.49	1.43
29	07	302	CLA	C1B-C2B	2.46	1.49	1.43
29	1b	613	CLA	CHD-C4C	2.46	1.44	1.39
35	1b	618	BCR	C10-C9	2.46	1.39	1.35
29	1r	310	CLA	C1B-NB	-2.46	1.34	1.37
30	09	305	CHL	C1D-C2D	2.46	1.50	1.45
45	1E	103	HEM	FE-ND	-2.46	1.87	1.94
29	05	310	CLA	C3B-C4B	2.46	1.48	1.42
30	1r	305	CHL	C3B-C4B	2.46	1.48	1.42
29	07	312	CLA	C1B-NB	-2.46	1.34	1.37
29	1S	306	CLA	C1B-NB	-2.46	1.34	1.37
29	05	311	CLA	C1D-C2D	2.46	1.50	1.45
30	1G	607	CHL	MG-NA	-2.46	2.00	2.06
29	1R	310	CLA	C1B-NB	-2.46	1.34	1.37
30	07	311	CHL	C4C-C3C	2.46	1.49	1.45
29	1n	612	CLA	C1D-C2D	2.46	1.50	1.45
29	1N	303	CLA	C1B-NB	-2.45	1.34	1.37
29	03	310	CLA	C1B-NB	-2.45	1.34	1.37
29	02	608	CLA	C1B-C2B	2.45	1.49	1.43
29	1C	504	CLA	C1D-C2D	2.45	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1g	601	CHL	C1B-C2B	2.45	1.49	1.43
29	08	309	CLA	MG-NA	-2.45	2.00	2.06
29	1C	510	CLA	MG-NA	-2.45	2.00	2.06
29	1r	311	CLA	C1B-NB	-2.45	1.34	1.37
29	1S	310	CLA	MG-NA	-2.45	2.00	2.06
30	09	307	CHL	C1B-C2B	2.45	1.49	1.43
29	07	308	CLA	MG-NA	-2.45	2.00	2.06
30	03	305	CHL	C1B-C2B	2.45	1.49	1.43
29	1B	609	CLA	C1D-C2D	2.45	1.50	1.45
29	1C	505	CLA	MG-NA	-2.45	2.00	2.06
29	1c	506	CLA	C1D-C2D	2.45	1.50	1.45
30	1N	302	CHL	C1B-C2B	2.45	1.49	1.43
29	1b	607	CLA	MG-NA	-2.45	2.00	2.06
29	1R	314	CLA	C4B-NB	-2.45	1.34	1.37
30	1r	305	CHL	C1B-C2B	2.45	1.49	1.43
29	1C	503	CLA	MG-NA	-2.45	2.00	2.06
29	1s	312	CLA	C1B-NB	-2.45	1.34	1.37
30	1G	607	CHL	C3B-C4B	2.45	1.48	1.42
30	05	315	CHL	C1B-C2B	2.45	1.49	1.43
30	1N	308	CHL	C1B-C2B	2.45	1.49	1.43
29	1B	607	CLA	MG-NA	-2.45	2.00	2.06
29	00	303	CLA	C1B-NB	-2.45	1.34	1.37
30	1N	307	CHL	C1D-C2D	2.44	1.50	1.45
29	05	310	CLA	C1B-C2B	2.44	1.49	1.43
29	1b	604	CLA	C3B-C4B	2.44	1.48	1.42
29	1B	603	CLA	C1B-C2B	2.44	1.49	1.43
31	1s	317	LUT	C28-C29	-2.44	1.40	1.45
29	02	612	CLA	C1B-NB	-2.44	1.34	1.37
29	04	310	CLA	C1B-NB	-2.44	1.34	1.37
29	1C	506	CLA	C1D-C2D	2.44	1.50	1.45
29	01	311	CLA	C1B-C2B	2.44	1.49	1.43
29	1N	312	CLA	C1B-NB	-2.44	1.34	1.37
29	1R	312	CLA	C1B-NB	-2.44	1.34	1.37
29	1r	304	CLA	C1B-NB	-2.44	1.34	1.37
30	1g	606	CHL	C1B-NB	-2.44	1.34	1.37
31	1g	616	LUT	C32-C33	-2.44	1.40	1.45
29	1c	505	CLA	C1B-C2B	2.44	1.49	1.43
29	1C	509	CLA	C1D-C2D	2.44	1.50	1.45
29	1R	302	CLA	C1B-NB	-2.44	1.34	1.37
29	03	308	CLA	MG-NA	-2.44	2.00	2.06
30	05	307	CHL	C1B-C2B	2.44	1.49	1.43
29	06	611	CLA	C1B-NB	-2.44	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1A	407	CLA	C1B-NB	-2.44	1.34	1.37
29	09	303	CLA	MG-NA	-2.44	2.00	2.06
31	00	313	LUT	C12-C13	-2.44	1.40	1.45
31	1S	318	LUT	C28-C29	-2.44	1.40	1.45
29	06	611	CLA	C1B-C2B	2.44	1.49	1.43
29	1C	505	CLA	C1D-C2D	2.44	1.50	1.45
29	1s	315	CLA	C3B-C4B	2.44	1.48	1.42
29	09	302	CLA	C1B-NB	-2.44	1.34	1.37
29	1S	305	CLA	C1B-C2B	2.44	1.49	1.43
29	07	309	CLA	C4C-C3C	2.44	1.49	1.45
30	1G	608	CHL	C1B-C2B	2.44	1.49	1.43
29	1B	613	CLA	C1B-NB	-2.44	1.34	1.37
29	1b	613	CLA	C1C-C2C	2.43	1.49	1.44
29	00	301	CLA	C1D-C2D	2.43	1.50	1.45
30	09	306	CHL	C1B-C2B	2.43	1.49	1.43
30	07	305	CHL	C4C-C3C	2.43	1.49	1.45
29	05	308	CLA	C1B-C2B	2.43	1.49	1.43
29	1R	307	CLA	C1B-NB	-2.43	1.34	1.37
29	1g	603	CLA	C1B-NB	-2.43	1.34	1.37
30	09	305	CHL	C1B-NB	-2.43	1.34	1.37
29	1N	315	CLA	MG-NA	-2.43	2.00	2.06
30	1S	304	CHL	C4C-C3C	2.43	1.49	1.45
29	1B	606	CLA	MG-NA	-2.43	2.00	2.06
29	1G	604	CLA	C3B-C4B	2.43	1.48	1.42
29	1B	607	CLA	C1B-NB	-2.43	1.34	1.37
29	1b	610	CLA	C1B-NB	-2.43	1.34	1.37
29	1C	513	CLA	C1C-C2C	2.43	1.49	1.44
29	03	309	CLA	C1B-C2B	2.43	1.49	1.43
30	1n	607	CHL	C1B-C2B	2.43	1.49	1.43
29	09	301	CLA	MG-NA	-2.43	2.00	2.06
30	00	306	CHL	C3B-C4B	2.43	1.48	1.42
29	08	307	CLA	C1B-NB	-2.42	1.34	1.37
31	07	313	LUT	C12-C13	-2.42	1.40	1.45
30	1g	609	CHL	C3B-C4B	2.42	1.48	1.42
30	1N	307	CHL	C1B-NB	-2.42	1.34	1.37
30	01	303	CHL	C1B-C2B	2.42	1.49	1.43
29	1c	512	CLA	C4B-NB	-2.42	1.34	1.37
29	09	311	CLA	C1B-C2B	2.42	1.49	1.43
30	1n	609	CHL	C1B-C2B	2.42	1.49	1.43
29	09	312	CLA	C1B-NB	-2.42	1.34	1.37
29	09	311	CLA	C1D-C2D	2.42	1.50	1.45
29	1R	306	CLA	C1B-C2B	2.42	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	06	605	CHL	C4C-C3C	2.42	1.49	1.45
31	03	313	LUT	C12-C13	-2.42	1.40	1.45
29	1s	306	CLA	C1B-C2B	2.42	1.49	1.43
30	03	311	CHL	C1B-C2B	2.42	1.49	1.43
29	1r	308	CLA	C1B-C2B	2.42	1.49	1.43
29	00	302	CLA	C4B-NB	-2.42	1.34	1.37
29	1G	604	CLA	C1B-NB	-2.42	1.34	1.37
29	01	312	CLA	C1B-C2B	2.42	1.49	1.43
29	06	607	CLA	C1B-C2B	2.42	1.49	1.43
30	1S	307	CHL	C1B-C2B	2.42	1.49	1.43
30	00	305	CHL	C4C-C3C	2.42	1.49	1.45
29	1g	612	CLA	C1D-C2D	2.42	1.50	1.45
29	04	314	CLA	C4B-NB	-2.42	1.34	1.37
29	07	310	CLA	C1B-C2B	2.42	1.49	1.43
29	00	301	CLA	C1C-C2C	2.42	1.49	1.44
29	1r	310	CLA	MG-NA	-2.42	2.00	2.06
35	1J	101	BCR	C12-C13	-2.42	1.40	1.45
29	07	308	CLA	C1B-NB	-2.42	1.34	1.37
29	05	311	CLA	C1B-C2B	2.42	1.48	1.43
29	1s	307	CLA	C3B-C4B	2.42	1.48	1.42
29	1b	605	CLA	C1B-C2B	2.42	1.48	1.43
29	1C	512	CLA	C1B-C2B	2.42	1.48	1.43
29	1C	507	CLA	C3B-C4B	2.42	1.48	1.42
29	05	312	CLA	C4B-NB	-2.42	1.34	1.37
29	1n	612	CLA	C3B-C4B	2.42	1.48	1.42
29	00	312	CLA	C1B-NB	-2.41	1.34	1.37
30	02	606	CHL	C4C-C3C	2.41	1.49	1.45
29	1B	616	CLA	C1B-C2B	2.41	1.48	1.43
29	00	311	CLA	CHD-C1D	2.41	1.43	1.38
30	03	303	CHL	C3B-C4B	2.41	1.48	1.42
29	05	309	CLA	C1B-NB	-2.41	1.34	1.37
30	02	604	CHL	C4C-C3C	2.41	1.49	1.45
30	1g	607	CHL	C4C-C3C	2.41	1.49	1.45
29	1c	507	CLA	MG-NA	-2.41	2.00	2.06
29	1B	610	CLA	C3B-C4B	2.41	1.48	1.42
29	08	308	CLA	C1B-C2B	2.41	1.48	1.43
29	1n	614	CLA	C1B-NB	-2.41	1.34	1.37
29	02	611	CLA	C1B-C2B	2.41	1.48	1.43
29	09	312	CLA	MG-NA	-2.41	2.00	2.06
29	1B	607	CLA	C4C-C3C	2.41	1.49	1.45
30	07	306	CHL	C4C-C3C	2.41	1.49	1.45
30	05	313	CHL	C4C-C3C	2.41	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1c	512	CLA	C1B-C2B	2.41	1.48	1.43
30	1r	313	CHL	C1B-C2B	2.41	1.48	1.43
29	1s	316	CLA	C1B-C2B	2.41	1.48	1.43
29	1N	304	CLA	C3B-C4B	2.41	1.48	1.42
29	1G	613	CLA	MG-NA	-2.41	2.00	2.06
29	1r	310	CLA	C1B-C2B	2.41	1.48	1.43
29	08	311	CLA	C1B-C2B	2.40	1.48	1.43
30	1N	306	CHL	C1B-C2B	2.40	1.48	1.43
29	08	307	CLA	C1B-C2B	2.40	1.48	1.43
29	1s	305	CLA	C1B-C2B	2.40	1.48	1.43
30	1R	303	CHL	C4C-C3C	2.40	1.49	1.45
29	1d	406	CLA	C1D-C2D	2.40	1.50	1.45
29	06	602	CLA	C1B-C2B	2.40	1.48	1.43
29	1C	508	CLA	C3B-C4B	2.40	1.48	1.42
29	1G	602	CLA	C1D-C2D	2.40	1.50	1.45
30	01	306	CHL	C1B-C2B	2.40	1.48	1.43
29	1c	511	CLA	MG-NA	-2.40	2.00	2.06
29	1D	404	CLA	C3D-C2D	2.40	1.45	1.39
30	1s	310	CHL	C1B-C2B	2.40	1.48	1.43
29	02	609	CLA	C1B-NB	-2.40	1.34	1.37
29	1B	611	CLA	C3B-C4B	2.40	1.48	1.42
29	1g	611	CLA	C1B-NB	-2.40	1.34	1.37
30	03	302	CHL	C4C-C3C	2.40	1.49	1.45
30	1n	606	CHL	C1B-NB	-2.40	1.34	1.37
29	07	309	CLA	MG-NA	-2.40	2.00	2.06
30	04	302	CHL	C4C-C3C	2.40	1.49	1.45
30	1n	606	CHL	C3B-C4B	2.40	1.48	1.42
30	1R	305	CHL	C4C-C3C	2.40	1.49	1.45
29	1g	603	CLA	C3B-C4B	2.40	1.48	1.42
31	1g	616	LUT	C12-C13	-2.40	1.40	1.45
30	1G	601	CHL	C1B-C2B	2.40	1.48	1.43
29	1S	312	CLA	C1B-NB	-2.40	1.34	1.37
30	07	304	CHL	C4C-C3C	2.39	1.49	1.45
29	1B	615	CLA	C1B-NB	-2.39	1.34	1.37
30	02	605	CHL	C4C-C3C	2.39	1.49	1.45
29	05	303	CLA	C1B-NB	-2.39	1.34	1.37
30	1s	308	CHL	C1B-C2B	2.39	1.48	1.43
30	1G	606	CHL	C4C-C3C	2.39	1.49	1.45
30	02	607	CHL	C1B-C2B	2.39	1.48	1.43
29	07	310	CLA	C1B-NB	-2.39	1.34	1.37
30	04	301	CHL	C1B-NB	-2.39	1.34	1.37
29	1R	307	CLA	C1C-C2C	2.39	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	1s	318	LUT	C28-C29	-2.39	1.40	1.45
29	1N	303	CLA	C1D-C2D	2.39	1.50	1.45
30	08	303	CHL	C1B-C2B	2.39	1.48	1.43
29	00	318	CLA	C1D-C2D	2.39	1.50	1.45
29	04	314	CLA	C1B-C2B	2.39	1.48	1.43
29	1s	313	CLA	C1B-C2B	2.39	1.48	1.43
30	1n	606	CHL	C1D-C2D	2.39	1.50	1.45
29	02	611	CLA	C1B-NB	-2.39	1.34	1.37
29	1r	309	CLA	C1B-NB	-2.39	1.34	1.37
29	1B	614	CLA	C3B-C4B	2.39	1.48	1.42
30	09	308	CHL	C4C-C3C	2.39	1.49	1.45
29	1B	616	CLA	MG-NA	-2.39	2.00	2.06
29	1c	505	CLA	MG-NA	-2.39	2.00	2.06
29	1S	314	CLA	C1B-C2B	2.39	1.48	1.43
30	08	305	CHL	C4C-C3C	2.39	1.49	1.45
30	01	304	CHL	C1B-C2B	2.38	1.48	1.43
29	1R	306	CLA	C1B-NB	-2.38	1.34	1.37
29	1g	614	CLA	MG-NA	-2.38	2.00	2.06
30	1N	310	CHL	C4C-C3C	2.38	1.49	1.45
29	1g	610	CLA	C1B-C2B	2.38	1.48	1.43
30	08	301	CHL	C1B-C2B	2.38	1.48	1.43
29	01	308	CLA	C3B-C4B	2.38	1.48	1.42
29	1B	611	CLA	C1D-C2D	2.38	1.50	1.45
31	1s	317	LUT	C12-C13	-2.38	1.40	1.45
35	1j	101	BCR	C12-C13	-2.38	1.40	1.45
29	1D	402	CLA	C1B-C2B	2.38	1.48	1.43
30	1N	307	CHL	C1B-C2B	2.38	1.48	1.43
29	1N	313	CLA	C1B-NB	-2.38	1.34	1.37
29	04	306	CLA	C1B-C2B	2.38	1.48	1.43
29	1N	314	CLA	C3B-C4B	2.38	1.48	1.42
29	1c	512	CLA	C1D-C2D	2.38	1.50	1.45
38	1A	405	PHO	C3A-C2A	-2.38	1.52	1.54
29	1S	310	CLA	C4B-NB	-2.38	1.34	1.37
31	00	314	LUT	C12-C13	-2.38	1.40	1.45
30	1R	304	CHL	C1B-C2B	2.38	1.48	1.43
29	01	312	CLA	C1B-NB	-2.38	1.34	1.37
29	1n	603	CLA	C3B-C4B	2.38	1.48	1.42
29	01	310	CLA	C1B-NB	-2.37	1.34	1.37
29	04	307	CLA	C1B-NB	-2.37	1.34	1.37
30	1g	607	CHL	C1B-C2B	2.37	1.48	1.43
29	1G	603	CLA	C1B-NB	-2.37	1.34	1.37
29	1a	408	CLA	C1C-C2C	2.37	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	1r	315	LUT	C32-C33	-2.37	1.40	1.45
29	1s	305	CLA	C1C-C2C	2.37	1.49	1.44
30	1s	309	CHL	C1B-C2B	2.37	1.48	1.43
30	01	306	CHL	C3B-C4B	2.37	1.48	1.42
30	09	306	CHL	C3B-C4B	2.37	1.48	1.42
29	09	317	CLA	C1D-C2D	2.37	1.50	1.45
29	1B	613	CLA	C1D-C2D	2.37	1.50	1.45
31	1g	616	LUT	C28-C29	-2.37	1.40	1.45
29	1s	316	CLA	C4C-C3C	2.37	1.49	1.45
30	00	305	CHL	C3B-C4B	2.37	1.48	1.42
29	01	310	CLA	C1D-C2D	2.37	1.50	1.45
29	1d	403	CLA	C1B-NB	-2.37	1.34	1.37
29	02	613	CLA	C1B-NB	-2.37	1.34	1.37
29	1n	610	CLA	CHB-C1B	2.37	1.44	1.39
29	1B	601	CLA	C1B-NB	-2.37	1.34	1.37
30	1G	606	CHL	C1B-NB	-2.37	1.34	1.37
29	1N	314	CLA	CHB-C4A	-2.37	1.32	1.37
29	1c	515	CLA	C1B-C2B	2.37	1.48	1.43
30	02	605	CHL	C1B-NB	-2.37	1.34	1.37
29	1d	403	CLA	C1C-C2C	2.37	1.49	1.44
29	1B	601	CLA	C3B-C4B	2.37	1.48	1.42
29	05	302	CLA	C1B-C2B	2.37	1.48	1.43
30	05	305	CHL	C1B-C2B	2.36	1.48	1.43
29	05	312	CLA	C4C-C3C	2.36	1.49	1.45
29	09	309	CLA	C1B-C2B	2.36	1.48	1.43
29	08	312	CLA	C1B-C2B	2.36	1.48	1.43
29	08	308	CLA	C1C-C2C	2.36	1.49	1.44
29	1n	612	CLA	C1B-NB	-2.36	1.34	1.37
29	1c	505	CLA	C1D-C2D	2.36	1.50	1.45
29	1G	602	CLA	C1C-C2C	2.36	1.49	1.44
31	01	315	LUT	C28-C29	-2.36	1.40	1.45
29	1G	611	CLA	C1B-C2B	2.36	1.48	1.43
29	1s	311	CLA	C1B-NB	-2.36	1.34	1.37
29	1S	310	CLA	C1C-C2C	2.36	1.49	1.44
31	1r	315	LUT	C28-C29	-2.36	1.40	1.45
29	00	302	CLA	C1B-C2B	2.36	1.48	1.43
31	1s	318	LUT	C8-C9	-2.36	1.40	1.45
29	05	301	CLA	C1B-NB	-2.36	1.34	1.37
29	07	309	CLA	C1B-NB	-2.36	1.34	1.37
30	1G	609	CHL	C1B-C2B	2.36	1.48	1.43
30	1r	305	CHL	C4C-C3C	2.36	1.49	1.45
29	1b	602	CLA	MG-NA	-2.36	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1r	306	CHL	C4C-C3C	2.36	1.49	1.45
29	1S	314	CLA	C1B-NB	-2.36	1.34	1.37
31	1g	615	LUT	C12-C13	-2.36	1.40	1.45
29	1r	309	CLA	C1C-C2C	2.36	1.49	1.44
30	04	302	CHL	C1B-C2B	2.35	1.48	1.43
29	1C	506	CLA	C1B-NB	-2.35	1.34	1.37
29	1G	604	CLA	C1B-C2B	2.35	1.48	1.43
29	1N	305	CLA	C3B-C4B	2.35	1.48	1.42
29	04	312	CLA	C1B-NB	-2.35	1.34	1.37
30	06	603	CHL	C4C-C3C	2.35	1.49	1.45
29	1C	505	CLA	C4C-C3C	2.35	1.49	1.45
30	02	601	CHL	C4C-C3C	2.35	1.49	1.45
30	1S	308	CHL	C4C-C3C	2.35	1.49	1.45
30	09	304	CHL	C3B-C4B	2.35	1.48	1.42
29	1a	405	CLA	OBD-CAD	2.35	1.26	1.22
30	1R	303	CHL	CHB-C4A	-2.35	1.32	1.37
30	08	302	CHL	C1B-C2B	2.35	1.48	1.43
29	1g	604	CLA	C4C-C3C	2.35	1.49	1.45
29	1s	315	CLA	C1B-NB	-2.35	1.34	1.37
29	1R	309	CLA	C1D-C2D	2.35	1.50	1.45
30	1n	608	CHL	C1B-C2B	2.35	1.48	1.43
29	00	318	CLA	C1B-NB	-2.35	1.34	1.37
29	02	614	CLA	C1B-NB	-2.35	1.34	1.37
30	04	301	CHL	C4C-C3C	2.35	1.49	1.45
29	1N	311	CLA	C1B-NB	-2.35	1.34	1.37
29	1C	503	CLA	C1B-C2B	2.34	1.48	1.43
30	03	304	CHL	C1B-C2B	2.34	1.48	1.43
29	01	307	CLA	C1B-NB	-2.34	1.34	1.37
29	01	308	CLA	C1B-NB	-2.34	1.34	1.37
29	01	309	CLA	C1C-C2C	2.34	1.49	1.44
29	06	609	CLA	C1B-NB	-2.34	1.34	1.37
29	1B	609	CLA	C3B-C4B	2.34	1.48	1.42
29	1b	610	CLA	C1D-C2D	2.34	1.49	1.45
30	1R	313	CHL	C4C-C3C	2.34	1.49	1.45
30	00	306	CHL	C1B-C2B	2.34	1.48	1.43
35	1b	601	BCR	C12-C13	-2.34	1.40	1.45
29	1c	511	CLA	C4C-C3C	2.34	1.49	1.45
30	01	303	CHL	C4C-C3C	2.34	1.49	1.45
29	04	309	CLA	C1B-C2B	2.34	1.48	1.43
29	1R	314	CLA	C1B-C2B	2.34	1.48	1.43
30	05	315	CHL	C4C-C3C	2.34	1.49	1.45
30	1r	307	CHL	C4C-C3C	2.34	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1c	508	CLA	C4C-C3C	2.34	1.49	1.45
29	1D	402	CLA	C3B-C4B	2.34	1.48	1.42
29	1R	308	CLA	C1C-C2C	2.34	1.49	1.44
29	1D	404	CLA	C1B-C2B	2.34	1.48	1.43
30	01	305	CHL	C1B-C2B	2.34	1.48	1.43
30	1g	606	CHL	C3B-C4B	2.34	1.48	1.42
35	1D	406	BCR	C12-C13	-2.33	1.40	1.45
29	05	312	CLA	C1B-NB	-2.33	1.34	1.37
30	00	307	CHL	C1B-NB	-2.33	1.34	1.37
29	1R	309	CLA	CHD-C4C	2.33	1.44	1.39
29	03	307	CLA	C1B-NB	-2.33	1.34	1.37
29	1R	310	CLA	C4C-C3C	2.33	1.49	1.45
29	1A	407	CLA	C1B-C2B	2.33	1.48	1.43
30	09	304	CHL	C4C-C3C	2.33	1.49	1.45
31	01	314	LUT	C28-C29	-2.33	1.40	1.45
31	05	314	LUT	C12-C13	-2.33	1.40	1.45
29	05	301	CLA	C1C-C2C	2.33	1.49	1.44
29	04	314	CLA	C1B-NB	-2.33	1.34	1.37
29	08	312	CLA	C1B-NB	-2.33	1.34	1.37
30	02	605	CHL	C1D-ND	-2.33	1.34	1.37
29	1b	613	CLA	CHD-C1D	2.33	1.42	1.38
30	1G	606	CHL	C1B-C2B	2.33	1.48	1.43
29	1b	611	CLA	C4C-C3C	2.33	1.49	1.45
29	1c	508	CLA	C3B-C4B	2.33	1.48	1.42
29	06	602	CLA	C1B-NB	-2.32	1.34	1.37
29	1C	507	CLA	C1D-C2D	2.32	1.49	1.45
29	1c	511	CLA	C3B-C4B	2.32	1.48	1.42
29	1C	511	CLA	C1C-C2C	2.32	1.49	1.44
29	04	314	CLA	MG-NA	-2.32	2.00	2.06
30	1g	608	CHL	C1B-C2B	2.32	1.48	1.43
29	1b	613	CLA	C3D-C2D	2.32	1.45	1.39
46	1g	619	XAT	C36-C21	2.32	1.58	1.53
29	1S	305	CLA	C1B-NB	-2.32	1.34	1.37
29	1B	612	CLA	C1C-C2C	2.32	1.49	1.44
30	01	306	CHL	C4C-C3C	2.32	1.49	1.45
29	1a	406	CLA	C1B-C2B	2.32	1.48	1.43
30	00	306	CHL	C4C-C3C	2.32	1.49	1.45
29	08	310	CLA	C1B-C2B	2.32	1.48	1.43
29	1C	505	CLA	C1B-C2B	2.32	1.48	1.43
31	01	314	LUT	C12-C13	-2.32	1.41	1.45
31	09	314	LUT	C12-C13	-2.32	1.41	1.45
29	1s	311	CLA	C4C-C3C	2.32	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1B	604	CLA	C1B-NB	-2.31	1.34	1.37
29	00	303	CLA	C4C-C3C	2.31	1.49	1.45
29	1B	605	CLA	C3B-C4B	2.31	1.48	1.42
29	08	309	CLA	C1B-NB	-2.31	1.34	1.37
30	04	303	CHL	C1B-C2B	2.31	1.48	1.43
30	04	304	CHL	C4C-C3C	2.31	1.49	1.45
30	1G	608	CHL	C4C-C3C	2.31	1.49	1.45
29	1b	605	CLA	C1D-C2D	2.31	1.49	1.45
29	1D	401	CLA	C1B-C2B	2.31	1.48	1.43
29	1C	506	CLA	C1C-C2C	2.31	1.49	1.44
29	1A	407	CLA	C1C-C2C	2.31	1.49	1.44
29	04	310	CLA	C4C-C3C	2.31	1.49	1.45
29	09	301	CLA	C1B-C2B	2.31	1.48	1.43
29	1b	607	CLA	C1B-C2B	2.31	1.48	1.43
29	02	608	CLA	C1B-NB	-2.31	1.34	1.37
29	1g	611	CLA	C1D-C2D	2.30	1.49	1.45
31	1S	317	LUT	C28-C29	-2.30	1.41	1.45
29	1R	307	CLA	C1B-C2B	2.30	1.48	1.43
29	00	318	CLA	C1C-C2C	2.30	1.49	1.44
29	07	301	CLA	C1B-C2B	2.30	1.48	1.43
30	02	603	CHL	C4C-C3C	2.30	1.49	1.45
29	1S	306	CLA	C3B-C4B	2.30	1.48	1.42
29	06	609	CLA	C4C-C3C	2.30	1.49	1.45
29	1b	608	CLA	C3B-C4B	2.30	1.48	1.42
29	1c	509	CLA	C1B-C2B	2.30	1.48	1.43
30	1n	607	CHL	C4C-C3C	2.30	1.49	1.45
29	1r	312	CLA	C1B-NB	-2.30	1.35	1.37
29	1C	512	CLA	C1B-NB	-2.30	1.35	1.37
30	1g	605	CHL	C4C-C3C	2.30	1.49	1.45
29	1S	316	CLA	C1B-NB	-2.30	1.35	1.37
29	1r	304	CLA	C1C-C2C	2.30	1.49	1.44
30	01	305	CHL	C1D-C2D	2.30	1.49	1.45
29	1B	608	CLA	C1D-C2D	2.29	1.49	1.45
30	1R	313	CHL	C1B-C2B	2.29	1.48	1.43
29	01	301	CLA	C1C-C2C	2.29	1.49	1.44
29	1B	614	CLA	CHD-C4C	2.29	1.44	1.39
29	1b	614	CLA	CHD-C4C	2.29	1.44	1.39
29	1G	604	CLA	C4C-C3C	2.29	1.49	1.45
30	1s	308	CHL	C1B-NB	-2.29	1.35	1.37
30	08	302	CHL	C4C-C3C	2.29	1.49	1.45
29	06	607	CLA	C1B-NB	-2.29	1.35	1.37
29	1d	407	CLA	C1B-C2B	2.29	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1S	311	CLA	C1D-C2D	2.29	1.49	1.45
29	1r	302	CLA	C1B-C2B	2.29	1.48	1.43
29	1r	308	CLA	C1D-C2D	2.29	1.49	1.45
30	04	303	CHL	C4C-C3C	2.29	1.49	1.45
29	01	307	CLA	CHB-C4A	-2.29	1.32	1.37
31	05	314	LUT	C32-C33	-2.29	1.41	1.45
29	1C	511	CLA	C1B-C2B	2.29	1.48	1.43
30	03	305	CHL	C4C-C3C	2.29	1.49	1.45
29	05	312	CLA	C1C-C2C	2.29	1.49	1.44
30	02	605	CHL	C3B-C4B	2.29	1.48	1.42
29	1B	602	CLA	C1D-C2D	2.29	1.49	1.45
29	1N	303	CLA	C1C-C2C	2.28	1.49	1.44
30	00	307	CHL	C1B-C2B	2.28	1.48	1.43
29	09	302	CLA	C3B-C4B	2.28	1.48	1.42
30	1G	601	CHL	C1B-NB	-2.28	1.35	1.37
30	1g	606	CHL	C1B-C2B	2.28	1.48	1.43
29	1g	602	CLA	C1D-C2D	2.28	1.49	1.45
30	1N	310	CHL	C1B-C2B	2.28	1.48	1.43
35	1J	101	BCR	C19-C18	-2.28	1.41	1.45
29	1n	603	CLA	C1B-NB	-2.28	1.35	1.37
29	1c	505	CLA	C1B-NB	-2.28	1.35	1.37
30	1G	605	CHL	C4C-C3C	2.28	1.49	1.45
29	09	303	CLA	C3B-C4B	2.28	1.48	1.42
29	1G	612	CLA	C3B-C4B	2.28	1.48	1.42
29	1C	513	CLA	C1D-C2D	2.27	1.49	1.45
29	07	302	CLA	C4C-C3C	2.27	1.49	1.45
29	03	308	CLA	C1B-NB	-2.27	1.35	1.37
29	1D	405	CLA	C1B-C2B	2.27	1.48	1.43
29	1s	316	CLA	C1B-NB	-2.27	1.35	1.37
31	1n	615	LUT	C32-C33	-2.27	1.41	1.45
30	1R	304	CHL	C4C-C3C	2.27	1.49	1.45
29	1N	314	CLA	C1C-C2C	2.27	1.49	1.44
29	1C	503	CLA	C1B-NB	-2.27	1.35	1.37
29	09	312	CLA	C4C-C3C	2.27	1.48	1.45
30	04	303	CHL	C1B-NB	-2.27	1.35	1.37
29	1r	310	CLA	C1C-C2C	2.27	1.49	1.44
29	1r	312	CLA	C4C-C3C	2.27	1.48	1.45
29	1n	604	CLA	C4C-C3C	2.27	1.48	1.45
30	03	311	CHL	C4C-C3C	2.27	1.48	1.45
30	1N	309	CHL	C1B-C2B	2.27	1.48	1.43
29	09	303	CLA	C4C-C3C	2.27	1.48	1.45
29	1C	510	CLA	C3B-C4B	2.27	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	508	CLA	C4C-C3C	2.27	1.48	1.45
30	1r	313	CHL	C4C-C3C	2.27	1.48	1.45
29	02	608	CLA	C1C-C2C	2.26	1.48	1.44
29	1c	514	CLA	C1D-C2D	2.26	1.49	1.45
29	00	309	CLA	C1C-C2C	2.26	1.48	1.44
29	1B	602	CLA	C3B-C4B	2.26	1.48	1.42
29	1A	404	CLA	CBD-CGD	-2.26	1.45	1.52
29	1b	614	CLA	MG-NB	-2.26	2.01	2.05
29	01	313	CLA	C1B-NB	-2.26	1.35	1.37
29	01	301	CLA	C4C-C3C	2.26	1.48	1.45
29	00	303	CLA	C3B-C4B	2.26	1.48	1.42
29	1b	612	CLA	C3B-C4B	2.26	1.48	1.42
30	00	308	CHL	C3B-C4B	2.26	1.48	1.42
29	1g	613	CLA	C1C-C2C	2.26	1.48	1.44
31	1R	315	LUT	C12-C13	-2.26	1.41	1.45
30	06	604	CHL	C4C-C3C	2.26	1.48	1.45
29	1R	309	CLA	C3B-C4B	2.26	1.48	1.42
30	03	304	CHL	C1B-NB	-2.26	1.35	1.37
30	1R	304	CHL	C1B-NB	-2.26	1.35	1.37
29	1c	513	CLA	C3B-C4B	2.26	1.48	1.42
29	1N	315	CLA	C1B-NB	-2.26	1.35	1.37
29	01	307	CLA	C1C-C2C	2.26	1.48	1.44
29	03	309	CLA	C4C-C3C	2.26	1.48	1.45
29	05	308	CLA	C1B-NB	-2.25	1.35	1.37
30	04	305	CHL	C4C-C3C	2.25	1.48	1.45
30	1n	607	CHL	C1B-NB	-2.25	1.35	1.37
30	1n	601	CHL	C1B-C2B	2.25	1.48	1.43
35	1d	409	BCR	C12-C13	-2.25	1.41	1.45
30	01	304	CHL	C1B-NB	-2.25	1.35	1.37
29	1s	307	CLA	C1B-C2B	2.25	1.48	1.43
31	1G	615	LUT	C12-C13	-2.25	1.41	1.45
29	1a	408	CLA	C1D-C2D	2.25	1.49	1.45
29	00	302	CLA	C1B-NB	-2.25	1.35	1.37
29	1c	510	CLA	C3B-C4B	2.25	1.48	1.42
29	05	308	CLA	C1C-C2C	2.25	1.48	1.44
29	1G	603	CLA	C1C-C2C	2.25	1.48	1.44
35	1D	406	BCR	C19-C18	-2.25	1.41	1.45
29	05	303	CLA	C4C-C3C	2.25	1.48	1.45
29	07	307	CLA	C4C-C3C	2.25	1.48	1.45
30	1g	606	CHL	C4C-C3C	2.25	1.48	1.45
30	06	606	CHL	C4C-C3C	2.25	1.48	1.45
30	05	306	CHL	C4C-C3C	2.25	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	01	304	CHL	C4C-C3C	2.24	1.48	1.45
30	02	605	CHL	C1B-C2B	2.24	1.48	1.43
30	1s	304	CHL	CHB-C4A	-2.24	1.32	1.37
29	1S	306	CLA	C4C-C3C	2.24	1.48	1.45
29	1b	614	CLA	C1D-C2D	2.24	1.49	1.45
29	07	301	CLA	C1B-NB	-2.24	1.35	1.37
29	04	308	CLA	C1C-C2C	2.24	1.48	1.44
29	1b	602	CLA	C1B-C2B	2.24	1.48	1.43
30	1G	609	CHL	MG-NA	-2.24	2.00	2.06
29	08	308	CLA	C1B-NB	-2.24	1.35	1.37
29	1G	603	CLA	C1B-C2B	2.24	1.48	1.43
29	00	301	CLA	C1B-C2B	2.24	1.48	1.43
29	1G	602	CLA	C1B-C2B	2.24	1.48	1.43
29	1c	504	CLA	C1D-C2D	2.24	1.49	1.45
29	1n	604	CLA	C3B-C4B	2.24	1.48	1.42
30	1S	304	CHL	C1B-C2B	2.24	1.48	1.43
29	03	310	CLA	C4C-C3C	2.24	1.48	1.45
30	07	303	CHL	C4C-C3C	2.24	1.48	1.45
29	1g	602	CLA	C1B-C2B	2.23	1.48	1.43
29	1g	604	CLA	C3B-C4B	2.23	1.48	1.42
35	1B	617	BCR	C2-C3	-2.23	1.47	1.52
29	06	611	CLA	C4C-C3C	2.23	1.48	1.45
30	08	304	CHL	C4C-C3C	2.23	1.48	1.45
29	1C	509	CLA	C3B-C4B	2.23	1.48	1.42
29	09	301	CLA	C1B-NB	-2.23	1.35	1.37
29	1G	611	CLA	C4C-C3C	2.23	1.48	1.45
30	01	303	CHL	C1B-NB	-2.23	1.35	1.37
29	1B	610	CLA	C1C-C2C	2.23	1.48	1.44
29	1s	312	CLA	C1C-C2C	2.23	1.48	1.44
30	00	306	CHL	CHB-C4A	-2.23	1.32	1.37
29	1s	305	CLA	C1D-C2D	2.23	1.49	1.45
29	1B	614	CLA	C4D-ND	2.22	1.40	1.37
29	1C	507	CLA	C4C-C3C	2.22	1.48	1.45
29	1b	603	CLA	C3B-C4B	2.22	1.48	1.42
29	02	609	CLA	C4C-C3C	2.22	1.48	1.45
29	00	311	CLA	C1D-C2D	2.22	1.49	1.45
29	1n	614	CLA	C4C-C3C	2.22	1.48	1.45
29	07	308	CLA	C4C-C3C	2.22	1.48	1.45
29	1s	307	CLA	C4C-C3C	2.22	1.48	1.45
30	05	305	CHL	C4C-C3C	2.22	1.48	1.45
29	1A	407	CLA	C1D-C2D	2.22	1.49	1.45
30	01	302	CHL	C4C-C3C	2.22	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	03	304	CHL	CHB-C4A	-2.22	1.32	1.37
29	06	608	CLA	C4C-C3C	2.22	1.48	1.45
29	1n	603	CLA	C4C-C3C	2.22	1.48	1.45
29	03	310	CLA	C1C-C2C	2.22	1.48	1.44
29	06	610	CLA	C1B-NB	-2.22	1.35	1.37
30	02	605	CHL	C1D-C2D	2.22	1.49	1.45
29	1A	404	CLA	C1D-C2D	2.22	1.49	1.45
29	1b	613	CLA	MG-NB	-2.22	2.01	2.05
29	05	303	CLA	C1B-C2B	2.21	1.48	1.43
29	03	306	CLA	C1C-C2C	2.21	1.48	1.44
29	1c	511	CLA	C1B-NB	-2.21	1.35	1.37
29	1c	505	CLA	C4C-C3C	2.21	1.48	1.45
29	1b	613	CLA	C1B-C2B	2.21	1.48	1.43
29	1N	311	CLA	C1D-C2D	2.21	1.49	1.45
30	09	305	CHL	C1D-ND	-2.21	1.35	1.37
29	1R	302	CLA	C1B-C2B	2.21	1.48	1.43
29	08	312	CLA	MG-NA	-2.21	2.01	2.06
30	05	305	CHL	C1B-NB	-2.21	1.35	1.37
35	1b	601	BCR	C29-C28	-2.21	1.47	1.52
29	04	308	CLA	C1B-NB	-2.21	1.35	1.37
29	1C	513	CLA	C1B-NB	-2.21	1.35	1.37
29	1G	612	CLA	C4C-C3C	2.21	1.48	1.45
30	09	305	CHL	C4C-C3C	2.21	1.48	1.45
29	09	317	CLA	C1B-NB	-2.21	1.35	1.37
29	1n	604	CLA	C1B-C2B	2.21	1.48	1.43
29	05	301	CLA	C1B-C2B	2.21	1.48	1.43
29	1B	607	CLA	C3B-C4B	2.21	1.47	1.42
29	1B	616	CLA	C4C-C3C	2.21	1.48	1.45
35	1h	101	BCR	C19-C18	-2.21	1.41	1.45
29	04	312	CLA	C4C-C3C	2.21	1.48	1.45
29	1R	309	CLA	CHD-C1D	2.20	1.42	1.38
29	1C	503	CLA	C1C-C2C	2.20	1.48	1.44
29	01	313	CLA	C4C-C3C	2.20	1.48	1.45
30	00	307	CHL	CHB-C4A	-2.20	1.32	1.37
30	1n	608	CHL	CHB-C4A	-2.20	1.32	1.37
30	1N	310	CHL	C1B-NB	-2.20	1.35	1.37
29	1c	515	CLA	C1C-C2C	2.20	1.48	1.44
30	09	305	CHL	CHB-C4A	-2.20	1.32	1.37
29	1c	503	CLA	C1B-C2B	2.20	1.48	1.43
35	1H	101	BCR	C19-C18	-2.20	1.41	1.45
30	09	306	CHL	C4C-C3C	2.20	1.48	1.45
29	07	302	CLA	MG-NB	-2.20	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1S	314	CLA	C1C-C2C	2.20	1.48	1.44
30	09	308	CHL	MG-NA	-2.20	2.01	2.06
29	1S	313	CLA	C1B-NB	-2.20	1.35	1.37
29	1S	311	CLA	C4C-C3C	2.20	1.48	1.45
29	07	310	CLA	C4C-C3C	2.19	1.48	1.45
30	1n	601	CHL	C4C-C3C	2.19	1.48	1.45
31	05	314	LUT	C28-C29	-2.19	1.41	1.45
29	1B	604	CLA	MG-NA	-2.19	2.01	2.06
30	1S	304	CHL	CHB-C4A	-2.19	1.32	1.37
30	1N	306	CHL	C4C-C3C	2.19	1.48	1.45
30	00	308	CHL	C4B-NB	-2.19	1.35	1.37
30	1g	608	CHL	C2C-C1C	2.19	1.49	1.44
29	1s	312	CLA	C1B-C2B	2.19	1.48	1.43
29	03	301	CLA	C1C-C2C	2.19	1.48	1.44
29	1C	506	CLA	C1B-C2B	2.19	1.48	1.43
30	1g	606	CHL	C1D-ND	-2.19	1.35	1.37
29	1R	310	CLA	C1C-C2C	2.19	1.48	1.44
29	1c	504	CLA	C3B-C4B	2.19	1.47	1.42
29	1b	611	CLA	C1B-C2B	2.19	1.48	1.43
30	04	303	CHL	C4B-NB	-2.19	1.35	1.37
29	1b	612	CLA	C1D-C2D	2.19	1.49	1.45
29	1B	616	CLA	C1D-C2D	2.19	1.49	1.45
35	1d	409	BCR	C19-C18	-2.19	1.41	1.45
29	07	301	CLA	C3B-C4B	2.19	1.47	1.42
29	1N	315	CLA	C4C-C3C	2.19	1.48	1.45
29	1a	408	CLA	C1B-C2B	2.19	1.48	1.43
31	1n	615	LUT	C28-C29	-2.19	1.41	1.45
30	08	304	CHL	MG-NA	-2.19	2.01	2.06
30	09	308	CHL	C1B-NB	-2.19	1.35	1.37
30	04	301	CHL	C1B-C2B	2.19	1.48	1.43
29	1C	501	CLA	C4C-C3C	2.19	1.48	1.45
29	1n	602	CLA	C1B-C2B	2.19	1.48	1.43
29	04	314	CLA	C4C-C3C	2.18	1.48	1.45
30	09	306	CHL	CHB-C4A	-2.18	1.32	1.37
29	1s	312	CLA	C4C-C3C	2.18	1.48	1.45
29	1b	608	CLA	C1B-C2B	2.18	1.48	1.43
30	1n	606	CHL	C4C-C3C	2.18	1.48	1.45
35	1j	101	BCR	C19-C18	-2.18	1.41	1.45
30	05	305	CHL	C2C-C1C	2.18	1.49	1.44
31	1n	615	LUT	C12-C13	-2.18	1.41	1.45
30	1g	608	CHL	C4C-C3C	2.18	1.48	1.45
29	1r	302	CLA	C1C-C2C	2.18	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	04	301	CHL	CHB-C4A	-2.18	1.32	1.37
29	1b	604	CLA	C1D-C2D	2.18	1.49	1.45
30	1n	608	CHL	C1B-NB	-2.18	1.35	1.37
29	1r	304	CLA	C1B-C2B	2.18	1.48	1.43
30	1n	607	CHL	CHB-C4A	-2.18	1.32	1.37
29	1S	316	CLA	C1C-C2C	2.18	1.48	1.44
30	00	304	CHL	C4C-C3C	2.18	1.48	1.45
30	05	304	CHL	C1D-ND	-2.18	1.35	1.37
30	1n	606	CHL	C1D-ND	-2.18	1.35	1.37
29	1c	510	CLA	C1B-C2B	2.18	1.48	1.43
29	1G	612	CLA	C1B-NB	-2.17	1.35	1.37
30	1N	309	CHL	C2C-C1C	2.17	1.49	1.44
30	03	304	CHL	C4C-C3C	2.17	1.48	1.45
29	1B	606	CLA	CHB-C4A	-2.17	1.32	1.37
29	1c	512	CLA	C1C-C2C	2.17	1.48	1.44
29	03	312	CLA	C4C-C3C	2.17	1.48	1.45
29	08	306	CLA	C1B-NB	-2.17	1.35	1.37
30	09	306	CHL	C4B-NB	-2.17	1.35	1.37
29	1G	613	CLA	C1C-C2C	2.17	1.48	1.44
29	1D	404	CLA	C3B-C4B	2.17	1.47	1.42
29	1N	314	CLA	C4C-C3C	2.17	1.48	1.45
29	1N	314	CLA	C1D-C2D	2.17	1.49	1.45
31	05	314	LUT	C19-C9	-2.17	1.46	1.50
29	1S	313	CLA	C3B-C4B	2.17	1.47	1.42
30	08	303	CHL	C4C-C3C	2.17	1.48	1.45
29	09	309	CLA	C1C-C2C	2.17	1.48	1.44
30	1s	308	CHL	C4C-C3C	2.17	1.48	1.45
41	1B	620	SQD	O8-S	2.17	1.55	1.47
30	00	307	CHL	C4C-C3C	2.17	1.48	1.45
29	1b	615	CLA	C1B-C2B	2.17	1.48	1.43
35	1h	101	BCR	C12-C13	-2.17	1.41	1.45
29	1B	601	CLA	MG-NA	-2.16	2.01	2.06
30	1G	608	CHL	C1B-NB	-2.16	1.35	1.37
29	1c	507	CLA	C1B-C2B	2.16	1.48	1.43
29	1R	302	CLA	C1C-C2C	2.16	1.48	1.44
30	1N	307	CHL	C4C-C3C	2.16	1.48	1.45
29	1C	502	CLA	C3B-C4B	2.16	1.47	1.42
29	02	610	CLA	C4C-C3C	2.16	1.48	1.45
29	1b	605	CLA	C4C-C3C	2.16	1.48	1.45
29	06	610	CLA	C1C-C2C	2.16	1.48	1.44
41	1d	405	SQD	O8-S	2.16	1.55	1.47
29	06	607	CLA	C1C-C2C	2.16	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	02	607	CHL	C1B-NB	-2.16	1.35	1.37
29	06	602	CLA	C4D-ND	2.16	1.40	1.37
29	1r	311	CLA	C4C-C3C	2.16	1.48	1.45
29	1a	406	CLA	C1C-C2C	2.16	1.48	1.44
30	01	305	CHL	C2C-C1C	2.16	1.49	1.44
29	05	309	CLA	C4C-C3C	2.16	1.48	1.45
29	1N	305	CLA	C4C-C3C	2.16	1.48	1.45
41	1S	302	SQD	O8-S	2.16	1.55	1.47
29	1g	614	CLA	C4C-C3C	2.16	1.48	1.45
29	1c	503	CLA	C1C-C2C	2.16	1.48	1.44
30	00	306	CHL	C1B-NB	-2.16	1.35	1.37
29	1B	605	CLA	C1B-C2B	2.15	1.48	1.43
29	1N	315	CLA	C1C-C2C	2.15	1.48	1.44
29	1b	608	CLA	C4C-C3C	2.15	1.48	1.45
29	09	303	CLA	C1B-C2B	2.15	1.48	1.43
30	1R	304	CHL	CHB-C4A	-2.15	1.32	1.37
30	1N	308	CHL	C4C-C3C	2.15	1.48	1.45
29	1C	504	CLA	C1B-C2B	2.15	1.48	1.43
29	05	310	CLA	C4C-C3C	2.15	1.48	1.45
30	1s	304	CHL	C1B-NB	-2.15	1.35	1.37
30	1s	304	CHL	C4C-C3C	2.15	1.48	1.45
29	1B	608	CLA	C4C-C3C	2.15	1.48	1.45
30	1r	306	CHL	C1B-NB	-2.15	1.35	1.37
29	1N	311	CLA	C1C-C2C	2.15	1.48	1.44
29	1R	306	CLA	C1C-C2C	2.15	1.48	1.44
30	1g	607	CHL	CHB-C4A	-2.15	1.32	1.37
29	06	610	CLA	C4C-C3C	2.15	1.48	1.45
29	01	310	CLA	C1C-C2C	2.15	1.48	1.44
29	07	308	CLA	C1C-C2C	2.15	1.48	1.44
31	1s	318	LUT	C11-C12	2.15	1.40	1.34
29	1N	305	CLA	C1B-C2B	2.15	1.48	1.43
30	04	303	CHL	CHB-C4A	-2.15	1.32	1.37
41	1b	622	SQD	O8-S	2.15	1.55	1.47
30	1n	601	CHL	CHB-C4A	-2.15	1.32	1.37
29	08	307	CLA	C4C-C3C	2.14	1.48	1.45
29	1G	613	CLA	C4C-C3C	2.14	1.48	1.45
41	1C	521	SQD	O8-S	2.14	1.55	1.47
30	00	306	CHL	C4B-NB	-2.14	1.35	1.37
30	03	304	CHL	C4B-NB	-2.14	1.35	1.37
45	1f	101	HEM	C3C-C4C	-2.14	1.42	1.46
31	09	313	LUT	C12-C13	-2.14	1.41	1.45
29	04	309	CLA	C4C-C3C	2.14	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1s	308	CHL	C1D-ND	-2.14	1.35	1.37
29	1N	313	CLA	C4C-C3C	2.14	1.48	1.45
29	1R	312	CLA	C4C-C3C	2.14	1.48	1.45
29	00	303	CLA	C1B-C2B	2.14	1.48	1.43
30	1N	309	CHL	CHB-C4A	-2.14	1.32	1.37
30	1N	306	CHL	MG-NA	-2.14	2.01	2.06
29	1r	312	CLA	C1C-C2C	2.14	1.48	1.44
29	00	309	CLA	C1B-C2B	2.14	1.48	1.43
29	1C	509	CLA	C3B-C2B	2.14	1.48	1.41
29	00	310	CLA	C1C-C2C	2.14	1.48	1.44
30	1g	607	CHL	C1B-NB	-2.14	1.35	1.37
29	1n	611	CLA	C1C-C2C	2.14	1.48	1.44
30	1n	606	CHL	C1B-C2B	2.14	1.48	1.43
30	01	305	CHL	C1D-ND	-2.13	1.35	1.37
41	1b	621	SQD	O8-S	2.13	1.55	1.47
41	1l	101	SQD	O8-S	2.13	1.55	1.47
29	1b	617	CLA	C3B-C4B	2.13	1.47	1.42
29	08	310	CLA	C4C-C3C	2.13	1.48	1.45
29	09	311	CLA	C4C-C3C	2.13	1.48	1.45
30	08	301	CHL	C1B-NB	-2.13	1.35	1.37
41	1B	628	SQD	O8-S	2.13	1.55	1.47
41	1c	517	SQD	O8-S	2.13	1.55	1.47
29	1s	306	CLA	C4C-C3C	2.13	1.48	1.45
29	08	310	CLA	C1C-C2C	2.13	1.48	1.44
29	1C	504	CLA	C1C-C2C	2.13	1.48	1.44
31	1r	315	LUT	C12-C13	-2.13	1.41	1.45
29	1C	511	CLA	C1D-C2D	2.13	1.49	1.45
29	06	607	CLA	C4C-C3C	2.13	1.48	1.45
30	02	606	CHL	MG-NA	-2.13	2.01	2.06
35	1b	618	BCR	C15-C14	-2.13	1.36	1.43
29	02	602	CLA	C1C-C2C	2.13	1.48	1.44
41	1L	102	SQD	O8-S	2.13	1.55	1.47
30	08	302	CHL	C1B-NB	-2.13	1.35	1.37
30	1n	608	CHL	C2C-C1C	2.13	1.49	1.44
30	1s	309	CHL	MG-NA	-2.13	2.01	2.06
29	09	301	CLA	C1D-C2D	2.13	1.49	1.45
29	1R	309	CLA	C4C-C3C	2.13	1.48	1.45
29	07	301	CLA	C1C-C2C	2.13	1.48	1.44
30	1G	607	CHL	C1D-ND	-2.13	1.35	1.37
30	1N	307	CHL	C1D-ND	-2.13	1.35	1.37
30	1g	608	CHL	C1B-NB	-2.13	1.35	1.37
41	1A	412	SQD	O8-S	2.13	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	1B	629	SQD	O8-S	2.12	1.55	1.47
29	02	614	CLA	C4C-C3C	2.12	1.48	1.45
29	1B	612	CLA	C1B-C2B	2.12	1.48	1.43
30	00	308	CHL	C1B-NB	-2.12	1.35	1.37
30	00	305	CHL	C1B-NB	-2.12	1.35	1.37
29	1b	602	CLA	C4C-C3C	2.12	1.48	1.45
30	1n	609	CHL	MG-NA	-2.12	2.01	2.06
35	1b	618	BCR	C16-C17	-2.12	1.36	1.43
29	01	309	CLA	C4C-C3C	2.12	1.48	1.45
29	06	602	CLA	C4C-C3C	2.12	1.48	1.45
29	1B	602	CLA	C4C-C3C	2.12	1.48	1.45
29	1N	312	CLA	C4C-C3C	2.12	1.48	1.45
29	02	609	CLA	C1C-C2C	2.12	1.48	1.44
35	1B	630	BCR	C29-C28	-2.12	1.47	1.52
30	02	605	CHL	C4B-NB	-2.12	1.35	1.37
30	1N	309	CHL	C1B-NB	-2.12	1.35	1.37
29	1S	311	CLA	C1C-C2C	2.12	1.48	1.44
30	1s	309	CHL	C4C-C3C	2.12	1.48	1.45
30	1S	308	CHL	C1B-NB	-2.12	1.35	1.37
29	1r	308	CLA	C1C-C2C	2.12	1.48	1.44
29	1G	614	CLA	C4C-C3C	2.12	1.48	1.45
30	04	302	CHL	C1B-NB	-2.12	1.35	1.37
29	1c	513	CLA	C1C-C2C	2.12	1.48	1.44
30	05	306	CHL	C2C-C1C	2.12	1.49	1.44
30	00	308	CHL	MG-NA	-2.11	2.01	2.06
30	1N	306	CHL	CHB-C4A	-2.11	1.32	1.37
30	07	311	CHL	C3B-C4B	2.11	1.47	1.42
29	04	312	CLA	C1C-C2C	2.11	1.48	1.44
35	1d	409	BCR	C2-C3	-2.11	1.47	1.52
29	1b	617	CLA	C4C-C3C	2.11	1.48	1.45
29	02	614	CLA	C1C-C2C	2.11	1.48	1.44
29	1c	505	CLA	C1C-C2C	2.11	1.48	1.44
30	02	605	CHL	CHB-C4A	-2.11	1.32	1.37
29	02	613	CLA	C1C-C2C	2.11	1.48	1.44
29	04	306	CLA	C1C-C2C	2.11	1.48	1.44
29	1g	612	CLA	C4C-C3C	2.11	1.48	1.45
29	1b	615	CLA	C1C-C2C	2.11	1.48	1.44
30	1g	608	CHL	CHB-C4A	-2.11	1.32	1.37
41	1A	413	SQD	O8-S	2.11	1.55	1.47
31	1G	616	LUT	C12-C13	-2.11	1.41	1.45
29	1S	315	CLA	C4C-C3C	2.11	1.48	1.45
30	08	303	CHL	C2C-C1C	2.11	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	04	307	CLA	C4C-C3C	2.11	1.48	1.45
41	1a	411	SQD	O8-S	2.11	1.55	1.47
30	1s	309	CHL	C1B-NB	-2.11	1.35	1.37
29	1c	509	CLA	C4C-C3C	2.11	1.48	1.45
29	1r	309	CLA	C1B-C2B	2.11	1.48	1.43
29	02	611	CLA	C4C-C3C	2.10	1.48	1.45
29	04	311	CLA	C4C-C3C	2.10	1.48	1.45
29	09	310	CLA	C1C-C2C	2.10	1.48	1.44
29	1d	407	CLA	C4C-C3C	2.10	1.48	1.45
29	06	609	CLA	C1C-C2C	2.10	1.48	1.44
29	08	307	CLA	C1C-C2C	2.10	1.48	1.44
30	01	305	CHL	C4C-C3C	2.10	1.48	1.45
29	1R	309	CLA	C4D-CHA	2.10	1.45	1.38
41	1m	101	SQD	O8-S	2.10	1.55	1.47
32	09	315	VIV	O1-C9	-2.10	1.43	1.46
29	1B	614	CLA	MG-NB	-2.10	2.01	2.05
30	1G	607	CHL	C2C-C1C	2.10	1.49	1.44
30	1s	310	CHL	C1B-NB	-2.10	1.35	1.37
30	04	303	CHL	MG-NA	-2.10	2.01	2.06
30	09	307	CHL	C2C-C1C	2.10	1.49	1.44
29	1g	613	CLA	C1D-C2D	2.10	1.49	1.45
29	06	611	CLA	C1C-C2C	2.10	1.48	1.44
29	07	312	CLA	C4C-C3C	2.10	1.48	1.45
30	1N	302	CHL	C4C-C3C	2.10	1.48	1.45
30	01	305	CHL	C1B-NB	-2.10	1.35	1.37
29	1C	510	CLA	C4C-C3C	2.09	1.48	1.45
30	1G	607	CHL	C4C-C3C	2.09	1.48	1.45
29	1G	614	CLA	C1C-C2C	2.09	1.48	1.44
30	03	302	CHL	C1B-NB	-2.09	1.35	1.37
29	02	602	CLA	C4C-C3C	2.09	1.48	1.45
30	01	304	CHL	CHB-C4A	-2.09	1.32	1.37
30	1G	606	CHL	CHB-C4A	-2.09	1.32	1.37
29	1D	405	CLA	C4C-C3C	2.09	1.48	1.45
30	1g	607	CHL	C2C-C1C	2.09	1.49	1.44
30	03	304	CHL	MG-NA	-2.09	2.01	2.06
30	1N	308	CHL	C1B-NB	-2.09	1.35	1.37
30	1R	313	CHL	C1B-NB	-2.09	1.35	1.37
29	05	309	CLA	C1C-C2C	2.09	1.48	1.44
29	1s	315	CLA	C1C-C2C	2.09	1.48	1.44
45	1E	103	HEM	C4B-NB	-2.09	1.34	1.38
29	01	313	CLA	C1C-C2C	2.09	1.48	1.44
29	1n	614	CLA	C1C-C2C	2.09	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	05	301	CLA	C4C-C3C	2.09	1.48	1.45
29	08	312	CLA	C4C-C3C	2.09	1.48	1.45
41	1a	410	SQD	O8-S	2.09	1.55	1.47
29	07	312	CLA	C1C-C2C	2.09	1.48	1.44
29	01	309	CLA	CHB-C4A	-2.09	1.32	1.37
29	1B	609	CLA	C4C-C3C	2.09	1.48	1.45
41	1D	412	SQD	O8-S	2.09	1.55	1.47
30	05	305	CHL	CHB-C4A	-2.09	1.32	1.37
31	1S	318	LUT	C12-C13	-2.09	1.41	1.45
30	1N	308	CHL	CHB-C4A	-2.09	1.32	1.37
29	1b	607	CLA	C4C-C3C	2.08	1.48	1.45
29	1r	314	CLA	C4C-C3C	2.08	1.48	1.45
30	1N	310	CHL	CHB-C4A	-2.08	1.32	1.37
29	1B	601	CLA	CHB-C4A	-2.08	1.32	1.37
29	1B	615	CLA	C1C-C2C	2.08	1.48	1.44
29	05	312	CLA	C1B-C2B	2.08	1.48	1.43
29	1S	312	CLA	C4C-C3C	2.08	1.48	1.45
29	1b	615	CLA	C4C-C3C	2.08	1.48	1.45
29	1S	305	CLA	C1D-C2D	2.08	1.49	1.45
29	1n	602	CLA	C4C-C3C	2.08	1.48	1.45
30	1s	309	CHL	CHB-C4A	-2.08	1.32	1.37
29	1C	503	CLA	C4C-C3C	2.08	1.48	1.45
30	1R	313	CHL	CHB-C4A	-2.08	1.32	1.37
30	00	306	CHL	C1D-ND	-2.08	1.35	1.37
29	1B	609	CLA	CHB-C4A	-2.08	1.32	1.37
29	04	311	CLA	C1C-C2C	2.08	1.48	1.44
29	03	307	CLA	C4C-C3C	2.08	1.48	1.45
30	1N	308	CHL	MG-NA	-2.08	2.01	2.06
29	1r	308	CLA	C4C-C3C	2.08	1.48	1.45
45	1E	103	HEM	C1A-C2A	-2.08	1.40	1.44
30	1r	305	CHL	C1B-NB	-2.08	1.35	1.37
29	04	310	CLA	C1C-C2C	2.08	1.48	1.44
29	1C	507	CLA	CHB-C4A	-2.08	1.32	1.37
29	1S	315	CLA	C1C-C2C	2.08	1.48	1.44
30	1N	310	CHL	MG-NA	-2.08	2.01	2.06
29	1s	313	CLA	C4C-C3C	2.08	1.48	1.45
41	1s	301	SQD	O8-S	2.07	1.55	1.47
30	00	304	CHL	C1B-NB	-2.07	1.35	1.37
29	1g	611	CLA	C1C-C2C	2.07	1.48	1.44
29	1C	501	CLA	C1B-C2B	2.07	1.48	1.43
29	1d	406	CLA	C1B-C2B	2.07	1.48	1.43
29	03	309	CLA	C1C-C2C	2.07	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1C	501	CLA	CHB-C4A	-2.07	1.32	1.37
30	1g	605	CHL	C1B-NB	-2.07	1.35	1.37
29	03	312	CLA	C1C-C2C	2.07	1.48	1.44
29	1s	307	CLA	C1C-C2C	2.07	1.48	1.44
29	1R	308	CLA	CHB-C4A	-2.07	1.32	1.37
30	04	302	CHL	CHB-C4A	-2.07	1.32	1.37
29	1B	605	CLA	C4C-C3C	2.07	1.48	1.45
30	1s	310	CHL	CHB-C4A	-2.07	1.32	1.37
29	1B	614	CLA	CHD-C1D	2.07	1.42	1.38
29	05	310	CLA	C1C-C2C	2.07	1.48	1.44
29	05	311	CLA	C1C-C2C	2.07	1.48	1.44
30	01	305	CHL	CHB-C4A	-2.07	1.32	1.37
29	1n	612	CLA	C4C-C3C	2.07	1.48	1.45
29	07	310	CLA	C1C-C2C	2.07	1.48	1.44
29	1N	312	CLA	C1C-C2C	2.07	1.48	1.44
30	1R	303	CHL	C1D-ND	-2.07	1.35	1.37
29	09	310	CLA	C4C-C3C	2.07	1.48	1.45
29	01	311	CLA	C1C-C2C	2.07	1.48	1.44
29	02	610	CLA	C1C-C2C	2.07	1.48	1.44
29	1R	314	CLA	C4C-C3C	2.07	1.48	1.45
29	1s	314	CLA	C1C-C2C	2.07	1.48	1.44
29	1c	507	CLA	CHB-C4A	-2.07	1.32	1.37
30	1n	609	CHL	C2C-C1C	2.07	1.49	1.44
38	1A	405	PHO	CBD-CGD	-2.06	1.49	1.52
29	05	312	CLA	CHB-C4A	-2.06	1.32	1.37
29	1S	314	CLA	C4C-C3C	2.06	1.48	1.45
29	07	302	CLA	CHD-C1D	2.06	1.42	1.38
29	1S	306	CLA	C1C-C2C	2.06	1.48	1.44
30	08	303	CHL	C1B-NB	-2.06	1.35	1.37
30	1g	609	CHL	C1B-NB	-2.06	1.35	1.37
30	1G	608	CHL	CHB-C4A	-2.06	1.32	1.37
41	1A	411	SQD	O8-S	2.06	1.55	1.47
30	06	604	CHL	C2C-C1C	2.06	1.49	1.44
29	06	608	CLA	C1C-C2C	2.06	1.48	1.44
30	08	302	CHL	CHB-C4A	-2.06	1.32	1.37
30	1r	306	CHL	CHB-C4A	-2.06	1.32	1.37
30	1S	309	CHL	C1B-NB	-2.06	1.35	1.37
29	03	307	CLA	C1C-C2C	2.06	1.48	1.44
29	07	301	CLA	C4C-C3C	2.06	1.48	1.45
41	1d	411	SQD	O8-S	2.06	1.54	1.47
30	00	308	CHL	C4C-C3C	2.06	1.48	1.45
30	02	607	CHL	CHB-C4A	-2.06	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1r	310	CLA	C4C-C3C	2.06	1.48	1.45
29	1s	313	CLA	C1C-C2C	2.06	1.48	1.44
30	1G	607	CHL	C3A-C2A	-2.06	1.48	1.54
29	1c	511	CLA	C1C-C2C	2.06	1.48	1.44
29	1N	304	CLA	C4C-C3C	2.06	1.48	1.45
30	01	306	CHL	CMC-C2C	2.06	1.49	1.45
30	07	303	CHL	C1B-NB	-2.06	1.35	1.37
30	00	307	CHL	C2C-C1C	2.06	1.49	1.44
30	03	305	CHL	C2C-C1C	2.06	1.49	1.44
30	03	311	CHL	MG-NA	-2.06	2.01	2.06
29	06	602	CLA	MG-NC	2.06	2.11	2.06
29	1n	613	CLA	C1B-C2B	2.06	1.48	1.43
30	1n	607	CHL	C4B-NB	-2.06	1.35	1.37
30	1r	307	CHL	C1B-NB	-2.05	1.35	1.37
29	1R	309	CLA	C3B-C2B	2.05	1.48	1.41
29	1G	612	CLA	C1C-C2C	2.05	1.48	1.44
29	1c	513	CLA	C4C-C3C	2.05	1.48	1.45
30	1G	601	CHL	C4C-C3C	2.05	1.48	1.45
30	09	308	CHL	C4B-NB	-2.05	1.35	1.37
29	1A	404	CLA	C1B-C2B	2.05	1.48	1.43
29	1n	611	CLA	C4C-C3C	2.05	1.48	1.45
29	1B	602	CLA	CHB-C4A	-2.05	1.32	1.37
29	04	307	CLA	C1C-C2C	2.05	1.48	1.44
29	00	302	CLA	C4C-C3C	2.05	1.48	1.45
30	1r	313	CHL	CHB-C4A	-2.05	1.32	1.37
29	02	612	CLA	C1C-C2C	2.05	1.48	1.44
41	1w	101	SQD	O8-S	2.05	1.54	1.47
30	09	307	CHL	CHB-C4A	-2.05	1.32	1.37
29	04	308	CLA	C4C-C3C	2.05	1.48	1.45
30	04	301	CHL	C1D-ND	-2.05	1.35	1.37
30	09	306	CHL	C1B-NB	-2.05	1.35	1.37
29	01	312	CLA	C1C-C2C	2.05	1.48	1.44
29	1S	311	CLA	C1B-C2B	2.05	1.48	1.43
29	1G	610	CLA	C4C-C3C	2.05	1.48	1.45
29	1D	404	CLA	C4C-C3C	2.04	1.48	1.45
30	1g	607	CHL	C1D-ND	-2.04	1.35	1.37
29	04	314	CLA	C1C-C2C	2.04	1.48	1.44
29	06	602	CLA	C1C-C2C	2.04	1.48	1.44
30	04	302	CHL	C2C-C1C	2.04	1.49	1.44
35	1h	101	BCR	C2-C3	-2.04	1.47	1.52
29	04	306	CLA	C4C-C3C	2.04	1.48	1.45
30	07	305	CHL	C1B-NB	-2.04	1.35	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1N	310	CHL	C4B-NB	-2.04	1.35	1.37
30	1n	605	CHL	C1B-NB	-2.04	1.35	1.37
35	1B	619	BCR	C2-C3	-2.04	1.47	1.52
30	1r	305	CHL	MG-NA	-2.04	2.01	2.06
29	08	311	CLA	C1C-C2C	2.04	1.48	1.44
30	04	305	CHL	MG-NA	-2.04	2.01	2.06
30	1s	304	CHL	MG-NA	-2.04	2.01	2.06
29	1C	510	CLA	C1C-C2C	2.04	1.48	1.44
29	1R	314	CLA	C1C-C2C	2.04	1.48	1.44
30	05	306	CHL	CHB-C4A	-2.04	1.32	1.37
29	1D	405	CLA	C1C-C2C	2.04	1.48	1.44
30	1s	309	CHL	C2C-C1C	2.04	1.48	1.44
29	1d	407	CLA	C1C-C2C	2.04	1.48	1.44
30	03	302	CHL	C2C-C1C	2.04	1.48	1.44
30	1r	306	CHL	C2C-C1C	2.04	1.48	1.44
30	04	304	CHL	C1B-NB	-2.04	1.35	1.37
30	1S	308	CHL	CHB-C4A	-2.04	1.32	1.37
30	09	307	CHL	MG-NA	-2.04	2.01	2.06
29	01	301	CLA	C1B-C2B	2.04	1.48	1.43
29	00	302	CLA	C1C-C2C	2.04	1.48	1.44
30	09	305	CHL	C1B-C2B	2.04	1.48	1.43
29	01	308	CLA	C1C-C2C	2.04	1.48	1.44
29	05	312	CLA	MG-NA	-2.04	2.01	2.06
30	07	306	CHL	C1B-NB	-2.04	1.35	1.37
29	1B	601	CLA	C1B-C2B	2.03	1.48	1.43
29	09	317	CLA	C4C-C3C	2.03	1.48	1.45
30	03	311	CHL	C4B-NB	-2.03	1.35	1.37
30	1G	609	CHL	CHB-C4A	-2.03	1.32	1.37
30	03	311	CHL	C1B-NB	-2.03	1.35	1.37
30	09	308	CHL	C3B-C4B	2.03	1.47	1.42
29	1S	315	CLA	C1B-C2B	2.03	1.48	1.43
29	1c	515	CLA	C4C-C3C	2.03	1.48	1.45
29	1C	502	CLA	C1D-C2D	2.03	1.49	1.45
29	1b	604	CLA	MG-NB	-2.03	2.01	2.05
29	05	302	CLA	C4D-ND	2.03	1.40	1.37
29	1r	303	CLA	C4C-C3C	2.03	1.48	1.45
29	1r	314	CLA	C1C-C2C	2.03	1.48	1.44
30	08	302	CHL	C2C-C1C	2.03	1.48	1.44
29	1c	506	CLA	C1C-C2C	2.03	1.48	1.44
34	1B	627	DGD	O5D-C1E	2.03	1.43	1.40
29	1c	509	CLA	C3B-C4B	2.03	1.47	1.42
29	1S	310	CLA	C4C-C3C	2.03	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	1c	507	CLA	C4C-C3C	2.03	1.48	1.45
30	00	304	CHL	MG-NA	-2.03	2.01	2.06
29	1B	606	CLA	C1C-C2C	2.03	1.48	1.44
29	1D	404	CLA	C1D-C2D	2.03	1.49	1.45
30	1G	605	CHL	C1B-NB	-2.03	1.35	1.37
30	07	311	CHL	MG-NA	-2.03	2.01	2.06
29	1b	611	CLA	C3B-C2B	2.03	1.48	1.41
30	03	311	CHL	CHB-C4A	-2.03	1.32	1.37
30	07	304	CHL	C2C-C1C	2.03	1.48	1.44
30	1S	307	CHL	CHB-C4A	-2.03	1.32	1.37
30	08	303	CHL	CHB-C4A	-2.03	1.32	1.37
30	03	305	CHL	CHB-C4A	-2.02	1.32	1.37
29	1c	506	CLA	C1B-C2B	2.02	1.48	1.43
30	03	305	CHL	C1B-NB	-2.02	1.35	1.37
30	1S	309	CHL	CHB-C4A	-2.02	1.32	1.37
30	04	303	CHL	C2C-C1C	2.02	1.48	1.44
30	1g	609	CHL	MG-NA	-2.02	2.01	2.06
29	1a	405	CLA	C1B-C2B	2.02	1.48	1.43
30	06	605	CHL	C1B-NB	-2.02	1.35	1.37
30	05	315	CHL	C2C-C1C	2.02	1.48	1.44
30	07	305	CHL	CHB-C4A	-2.02	1.32	1.37
29	02	611	CLA	C1C-C2C	2.02	1.48	1.44
30	06	606	CHL	C1B-NB	-2.02	1.35	1.37
35	1h	101	BCR	C29-C28	-2.02	1.47	1.52
30	1G	601	CHL	MG-NA	-2.02	2.01	2.06
30	01	306	CHL	C4B-NB	-2.02	1.35	1.37
30	1r	307	CHL	CHB-C4A	-2.02	1.32	1.37
29	01	310	CLA	C4C-C3C	2.02	1.48	1.45
29	1S	316	CLA	C4C-C3C	2.02	1.48	1.45
29	1n	603	CLA	C1C-C2C	2.02	1.48	1.44
30	1S	308	CHL	MG-NA	-2.02	2.01	2.06
30	01	306	CHL	C2C-C1C	2.02	1.48	1.44
30	1G	606	CHL	MG-NA	-2.02	2.01	2.06
29	1c	506	CLA	C4C-C3C	2.02	1.48	1.45
30	07	303	CHL	C2C-C1C	2.02	1.48	1.44
30	1s	308	CHL	C2C-C1C	2.02	1.48	1.44
30	1g	609	CHL	CMC-C2C	2.02	1.49	1.45
30	1n	608	CHL	C4C-C3C	2.02	1.48	1.45
29	1a	405	CLA	C1C-C2C	2.01	1.48	1.44
30	07	311	CHL	C4B-NB	-2.01	1.35	1.37
30	1n	609	CHL	C1B-NB	-2.01	1.35	1.37
35	1b	618	BCR	C11-C10	-2.01	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	1n	608	CHL	MG-NA	-2.01	2.01	2.06
35	1d	409	BCR	C8-C7	2.01	1.39	1.33
29	1n	612	CLA	C1C-C2C	2.01	1.48	1.44
30	05	307	CHL	C2C-C1C	2.01	1.48	1.44
30	08	304	CHL	CHB-C4A	-2.01	1.32	1.37
30	1n	609	CHL	CHB-C4A	-2.01	1.32	1.37
29	1g	614	CLA	C1C-C2C	2.01	1.48	1.44
29	07	302	CLA	C4D-CHA	2.01	1.45	1.38
30	1n	605	CHL	CHB-C4A	-2.01	1.32	1.37
29	1b	604	CLA	C4C-C3C	2.01	1.48	1.45
30	1R	305	CHL	C1B-NB	-2.01	1.35	1.37
30	1s	304	CHL	C1B-C2B	2.01	1.48	1.43
30	02	601	CHL	C2C-C1C	2.01	1.48	1.44
29	09	312	CLA	C1C-C2C	2.01	1.48	1.44
29	1b	614	CLA	C4D-CHA	2.01	1.45	1.38
29	01	311	CLA	C4C-C3C	2.01	1.48	1.45
30	00	305	CHL	MG-NA	-2.01	2.01	2.06
30	01	306	CHL	MG-NA	-2.01	2.01	2.06
30	1S	307	CHL	CMC-C2C	2.01	1.49	1.45
30	1S	307	CHL	C2C-C1C	2.01	1.48	1.44
29	1B	613	CLA	C1C-C2C	2.01	1.48	1.44
30	09	304	CHL	MG-NA	-2.01	2.01	2.06
30	01	303	CHL	C1D-ND	-2.01	1.35	1.37
30	02	603	CHL	C1B-NB	-2.01	1.35	1.37
30	08	305	CHL	CHB-C4A	-2.01	1.32	1.37
41	1B	622	SQD	O8-S	2.01	1.54	1.47
29	1R	308	CLA	C4C-C3C	2.00	1.48	1.45
29	03	310	CLA	C1B-C2B	2.00	1.48	1.43
45	1E	103	HEM	C1D-ND	-2.00	1.34	1.38
30	1N	306	CHL	C1B-NB	-2.00	1.35	1.37
35	1B	630	BCR	C2-C3	-2.00	1.47	1.52
30	1n	607	CHL	MG-NA	-2.00	2.01	2.06
30	01	302	CHL	C1B-NB	-2.00	1.35	1.37
29	1R	311	CLA	C1C-C2C	2.00	1.48	1.44
30	01	302	CHL	CHB-C4A	-2.00	1.32	1.37
29	04	309	CLA	C1C-C2C	2.00	1.48	1.44
30	01	303	CHL	CHB-C4A	-2.00	1.32	1.37
30	05	306	CHL	C1B-NB	-2.00	1.35	1.37
35	1b	618	BCR	C20-C21	-2.00	1.37	1.43
29	08	306	CLA	C4C-C3C	2.00	1.48	1.45

All (9150) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	00	307	CHL	C2B-C1B-NB	11.08	117.66	110.23
46	1g	617	XAT	O24-C25-C24	10.94	121.60	113.38
30	1N	309	CHL	C2B-C1B-NB	10.92	117.55	110.23
30	03	304	CHL	C2B-C1B-NB	10.90	117.54	110.23
30	1n	608	CHL	C2B-C1B-NB	10.87	117.52	110.23
29	05	311	CLA	C1D-ND-C4D	-10.85	98.62	106.33
30	1S	304	CHL	C2B-C1B-NB	10.84	117.50	110.23
30	1g	607	CHL	C2B-C1B-NB	10.77	117.45	110.23
29	07	302	CLA	C2C-C1C-NC	10.77	120.06	109.97
30	00	306	CHL	C2B-C1B-NB	10.77	117.45	110.23
30	1R	304	CHL	C2B-C1B-NB	10.68	117.39	110.23
30	1n	607	CHL	C2B-C1B-NB	10.66	117.38	110.23
30	1g	608	CHL	C2B-C1B-NB	10.64	117.36	110.23
30	1n	605	CHL	C2B-C1B-NB	10.62	117.35	110.23
30	1r	307	CHL	C2B-C1B-NB	10.58	117.32	110.23
30	01	304	CHL	C2B-C1B-NB	10.56	117.31	110.23
29	07	302	CLA	C4A-NA-C1A	10.54	111.44	106.71
30	1G	608	CHL	C2B-C1B-NB	10.53	117.29	110.23
30	1s	304	CHL	C2B-C1B-NB	10.50	117.27	110.23
30	03	305	CHL	C2B-C1B-NB	10.49	117.27	110.23
30	08	302	CHL	C2B-C1B-NB	10.48	117.26	110.23
30	1N	308	CHL	C2B-C1B-NB	10.46	117.25	110.23
30	1r	313	CHL	C2B-C1B-NB	10.44	117.23	110.23
30	07	303	CHL	C2B-C1B-NB	10.43	117.23	110.23
30	1g	601	CHL	C2B-C1B-NB	10.43	117.23	110.23
30	03	302	CHL	C2B-C1B-NB	10.43	117.22	110.23
30	1s	310	CHL	C2B-C1B-NB	10.43	117.22	110.23
30	1N	306	CHL	C2B-C1B-NB	10.42	117.22	110.23
30	1R	313	CHL	C2B-C1B-NB	10.40	117.21	110.23
30	08	303	CHL	C2B-C1B-NB	10.40	117.20	110.23
30	07	304	CHL	C2B-C1B-NB	10.39	117.20	110.23
30	01	302	CHL	C2B-C1B-NB	10.38	117.19	110.23
30	05	305	CHL	C2B-C1B-NB	10.38	117.19	110.23
30	04	303	CHL	C2B-C1B-NB	10.37	117.19	110.23
30	1s	309	CHL	C2B-C1B-NB	10.36	117.18	110.23
30	1s	308	CHL	C2B-C1B-NB	10.36	117.17	110.23
30	04	302	CHL	C2B-C1B-NB	10.35	117.17	110.23
30	1N	302	CHL	C2B-C1B-NB	10.35	117.17	110.23
30	03	311	CHL	C2B-C1B-NB	10.34	117.17	110.23
30	09	307	CHL	C2B-C1B-NB	10.34	117.17	110.23
29	1B	614	CLA	C1D-ND-C4D	-10.34	98.99	106.33
30	1g	605	CHL	C2B-C1B-NB	10.34	117.16	110.23
30	02	603	CHL	C2B-C1B-NB	10.32	117.15	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1d	403	CLA	C1D-ND-C4D	-10.32	99.00	106.33
30	1G	606	CHL	C2B-C1B-NB	10.32	117.15	110.23
30	09	306	CHL	C2B-C1B-NB	10.31	117.15	110.23
29	1b	614	CLA	C1D-ND-C4D	-10.31	99.01	106.33
30	01	306	CHL	C2B-C1B-NB	10.31	117.14	110.23
30	08	305	CHL	C2B-C1B-NB	10.31	117.14	110.23
30	1G	609	CHL	C2B-C1B-NB	10.31	117.14	110.23
30	02	606	CHL	C2B-C1B-NB	10.30	117.14	110.23
30	1n	601	CHL	C2B-C1B-NB	10.30	117.14	110.23
30	05	313	CHL	C2B-C1B-NB	10.30	117.14	110.23
30	06	605	CHL	C2B-C1B-NB	10.29	117.13	110.23
30	05	315	CHL	C2B-C1B-NB	10.29	117.13	110.23
30	01	305	CHL	C2B-C1B-NB	10.28	117.12	110.23
30	1S	309	CHL	C2B-C1B-NB	10.28	117.12	110.23
30	04	304	CHL	C2B-C1B-NB	10.27	117.12	110.23
30	05	306	CHL	C2B-C1B-NB	10.27	117.12	110.23
30	07	305	CHL	C2B-C1B-NB	10.27	117.12	110.23
30	07	306	CHL	C2B-C1B-NB	10.27	117.12	110.23
30	04	301	CHL	C2B-C1B-NB	10.26	117.11	110.23
29	1C	513	CLA	C1D-ND-C4D	-10.26	99.05	106.33
29	02	612	CLA	C1D-ND-C4D	-10.26	99.05	106.33
30	06	604	CHL	C2B-C1B-NB	10.26	117.11	110.23
30	1R	305	CHL	C2B-C1B-NB	10.26	117.11	110.23
30	1N	310	CHL	C2B-C1B-NB	10.23	117.09	110.23
30	02	604	CHL	C2B-C1B-NB	10.23	117.09	110.23
29	05	312	CLA	C2B-C1B-NB	10.22	117.08	110.23
30	06	601	CHL	C2B-C1B-NB	10.20	117.07	110.23
29	1C	508	CLA	C2C-C1C-NC	10.20	119.53	109.97
30	1S	308	CHL	C2B-C1B-NB	10.19	117.07	110.23
30	1S	307	CHL	C2B-C1B-NB	10.18	117.06	110.23
30	06	603	CHL	C2B-C1B-NB	10.18	117.06	110.23
30	1G	605	CHL	C2B-C1B-NB	10.17	117.05	110.23
30	02	607	CHL	C2B-C1B-NB	10.17	117.05	110.23
29	1D	401	CLA	C1D-ND-C4D	-10.16	99.12	106.33
30	06	606	CHL	C2B-C1B-NB	10.16	117.04	110.23
30	1r	306	CHL	C2B-C1B-NB	10.13	117.02	110.23
29	03	301	CLA	C1D-ND-C4D	-10.13	99.14	106.33
29	1S	315	CLA	C1D-ND-C4D	-10.12	99.14	106.33
30	1n	609	CHL	C2B-C1B-NB	10.11	117.01	110.23
29	1R	309	CLA	C2C-C1C-NC	10.10	119.44	109.97
30	00	304	CHL	C2B-C1B-NB	10.09	116.99	110.23
30	1R	303	CHL	C2B-C1B-NB	10.05	116.97	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1N	303	CLA	C1D-ND-C4D	-10.03	99.21	106.33
29	07	302	CLA	C1D-ND-C4D	-10.00	99.23	106.33
30	01	303	CHL	C2B-C1B-NB	10.00	116.94	110.23
30	08	304	CHL	C2B-C1B-NB	9.99	116.93	110.23
29	1C	511	CLA	C1D-ND-C4D	-9.99	99.24	106.33
30	09	305	CHL	C2B-C1B-NB	9.97	116.92	110.23
30	04	305	CHL	C2B-C1B-NB	9.95	116.91	110.23
29	1b	606	CLA	C1D-ND-C4D	-9.94	99.28	106.33
30	02	601	CHL	C2B-C1B-NB	9.94	116.89	110.23
30	09	304	CHL	C2B-C1B-NB	9.93	116.89	110.23
29	1s	306	CLA	C1D-ND-C4D	-9.92	99.29	106.33
29	1R	307	CLA	C1D-ND-C4D	-9.90	99.30	106.33
29	1c	515	CLA	C1D-ND-C4D	-9.90	99.30	106.33
30	1G	601	CHL	C2B-C1B-NB	9.89	116.86	110.23
29	00	311	CLA	C1D-ND-C4D	-9.87	99.32	106.33
29	09	301	CLA	C1D-ND-C4D	-9.86	99.33	106.33
29	00	301	CLA	C1D-ND-C4D	-9.85	99.34	106.33
29	02	614	CLA	C1D-ND-C4D	-9.85	99.34	106.33
29	1S	305	CLA	C1D-ND-C4D	-9.84	99.34	106.33
29	1G	610	CLA	C1D-ND-C4D	-9.83	99.35	106.33
29	1C	504	CLA	C1D-ND-C4D	-9.83	99.35	106.33
30	1r	305	CHL	C2B-C1B-NB	9.82	116.81	110.23
29	08	311	CLA	C1D-ND-C4D	-9.78	99.39	106.33
29	02	602	CLA	C1D-ND-C4D	-9.77	99.39	106.33
29	1C	512	CLA	C1D-ND-C4D	-9.77	99.40	106.33
29	03	306	CLA	C1D-ND-C4D	-9.77	99.40	106.33
29	1B	607	CLA	C2C-C1C-NC	9.72	119.08	109.97
29	09	302	CLA	C1D-ND-C4D	-9.72	99.43	106.33
29	1c	511	CLA	C2C-C1C-NC	9.69	119.05	109.97
30	02	605	CHL	C2B-C1B-NB	9.67	116.72	110.23
29	1B	613	CLA	C1D-ND-C4D	-9.66	99.47	106.33
46	1g	619	XAT	C35-C34-C33	-9.66	113.53	127.31
29	1s	305	CLA	C1D-ND-C4D	-9.66	99.47	106.33
29	1R	306	CLA	C1D-ND-C4D	-9.65	99.48	106.33
29	1c	512	CLA	C1D-ND-C4D	-9.65	99.48	106.33
29	1N	314	CLA	C2B-C1B-NB	9.64	116.70	110.23
29	05	302	CLA	C1D-ND-C4D	-9.63	99.49	106.33
30	1g	609	CHL	C2B-C1B-NB	9.61	116.67	110.23
29	1C	501	CLA	C2B-C1B-NB	9.60	116.67	110.23
29	1c	511	CLA	C1D-ND-C4D	-9.60	99.52	106.33
29	1r	302	CLA	C1D-ND-C4D	-9.59	99.52	106.33
29	1b	613	CLA	C1D-ND-C4D	-9.58	99.53	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	615	CLA	C1D-ND-C4D	-9.58	99.53	106.33
29	1A	407	CLA	C1D-ND-C4D	-9.58	99.53	106.33
29	1g	602	CLA	C1D-ND-C4D	-9.57	99.54	106.33
30	05	307	CHL	C2B-C1B-NB	9.56	116.64	110.23
30	1G	607	CHL	C2B-C1B-NB	9.56	116.64	110.23
29	01	311	CLA	C1D-ND-C4D	-9.56	99.55	106.33
29	1b	607	CLA	C2B-C1B-NB	9.55	116.63	110.23
29	1R	308	CLA	C2B-C1B-NB	9.54	116.63	110.23
30	00	308	CHL	C2B-C1B-NB	9.54	116.63	110.23
29	01	301	CLA	C2B-C1B-NB	9.53	116.62	110.23
29	1b	614	CLA	C2C-C1C-NC	9.53	118.90	109.97
29	1a	406	CLA	C1D-ND-C4D	-9.53	99.56	106.33
29	1R	309	CLA	C1D-ND-C4D	-9.53	99.57	106.33
29	01	313	CLA	C1D-ND-C4D	-9.52	99.57	106.33
29	1B	611	CLA	C1D-ND-C4D	-9.52	99.58	106.33
29	06	611	CLA	C1D-ND-C4D	-9.51	99.58	106.33
30	08	301	CHL	C2B-C1B-NB	9.51	116.61	110.23
29	04	311	CLA	C1D-ND-C4D	-9.48	99.60	106.33
29	06	607	CLA	C1D-ND-C4D	-9.48	99.60	106.33
29	02	608	CLA	C1D-ND-C4D	-9.48	99.60	106.33
29	1c	503	CLA	C1D-ND-C4D	-9.48	99.60	106.33
29	1R	311	CLA	C1D-ND-C4D	-9.48	99.60	106.33
29	1n	610	CLA	C2C-C1C-NC	9.47	118.85	109.97
29	1S	312	CLA	C1D-ND-C4D	-9.44	99.63	106.33
29	00	318	CLA	C1D-ND-C4D	-9.44	99.63	106.33
29	1R	302	CLA	C1D-ND-C4D	-9.43	99.64	106.33
29	04	308	CLA	C1D-ND-C4D	-9.43	99.64	106.33
29	07	312	CLA	C1D-ND-C4D	-9.42	99.64	106.33
29	02	610	CLA	C1D-ND-C4D	-9.41	99.65	106.33
29	09	317	CLA	C1D-ND-C4D	-9.41	99.65	106.33
29	08	306	CLA	C1D-ND-C4D	-9.39	99.66	106.33
29	1c	506	CLA	C1D-ND-C4D	-9.38	99.67	106.33
29	00	310	CLA	C1D-ND-C4D	-9.38	99.67	106.33
29	08	310	CLA	C1D-ND-C4D	-9.37	99.68	106.33
46	1g	619	XAT	C31-C30-C29	-9.37	113.94	127.31
29	07	308	CLA	C1D-ND-C4D	-9.37	99.68	106.33
29	1G	613	CLA	C1D-ND-C4D	-9.37	99.68	106.33
29	1r	308	CLA	C1D-ND-C4D	-9.36	99.69	106.33
29	06	610	CLA	C1D-ND-C4D	-9.35	99.70	106.33
29	1s	316	CLA	C2B-C1B-NB	9.34	116.50	110.23
29	1g	613	CLA	C1D-ND-C4D	-9.34	99.70	106.33
29	1C	507	CLA	C2B-C1B-NB	9.33	116.49	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	09	311	CLA	C1D-ND-C4D	-9.33	99.71	106.33
29	00	302	CLA	C1D-ND-C4D	-9.33	99.71	106.33
29	1a	405	CLA	C1D-ND-C4D	-9.32	99.71	106.33
29	1d	406	CLA	C1D-ND-C4D	-9.32	99.72	106.33
29	1b	603	CLA	C2C-C1C-NC	9.32	118.70	109.97
29	03	312	CLA	C1D-ND-C4D	-9.32	99.72	106.33
29	1R	314	CLA	C1D-ND-C4D	-9.31	99.72	106.33
29	1s	314	CLA	C1D-ND-C4D	-9.31	99.72	106.33
29	01	307	CLA	C2B-C1B-NB	9.31	116.47	110.23
29	1r	309	CLA	C1D-ND-C4D	-9.30	99.73	106.33
30	03	303	CHL	C2B-C1B-NB	9.30	116.47	110.23
29	03	309	CLA	C1D-ND-C4D	-9.30	99.73	106.33
29	04	310	CLA	C1D-ND-C4D	-9.30	99.73	106.33
30	1n	601	CHL	CMD-C2D-C1D	9.30	141.10	124.71
29	1R	310	CLA	C1D-ND-C4D	-9.29	99.74	106.33
29	06	602	CLA	C1D-ND-C4D	-9.28	99.74	106.33
29	1b	616	CLA	C1D-ND-C4D	-9.28	99.74	106.33
29	02	613	CLA	C1D-ND-C4D	-9.28	99.74	106.33
29	08	308	CLA	C1D-ND-C4D	-9.28	99.75	106.33
29	1a	408	CLA	C1D-ND-C4D	-9.26	99.76	106.33
30	07	311	CHL	C2B-C1B-NB	9.26	116.44	110.23
46	1g	619	XAT	C15-C14-C13	-9.25	114.11	127.31
29	1r	312	CLA	C1D-ND-C4D	-9.24	99.77	106.33
29	06	608	CLA	C1D-ND-C4D	-9.23	99.78	106.33
29	1B	608	CLA	C2B-C1B-NB	9.22	116.41	110.23
29	1A	404	CLA	C1D-ND-C4D	-9.22	99.79	106.33
29	1r	314	CLA	C1D-ND-C4D	-9.21	99.79	106.33
29	1g	611	CLA	C1D-ND-C4D	-9.21	99.79	106.33
29	05	308	CLA	C1D-ND-C4D	-9.20	99.80	106.33
29	1R	312	CLA	C1D-ND-C4D	-9.20	99.80	106.33
29	07	309	CLA	C1D-ND-C4D	-9.20	99.80	106.33
29	04	312	CLA	C1D-ND-C4D	-9.20	99.80	106.33
29	04	307	CLA	C1D-ND-C4D	-9.19	99.80	106.33
29	00	309	CLA	C2B-C1B-NB	9.19	116.40	110.23
29	1C	506	CLA	C1D-ND-C4D	-9.18	99.81	106.33
29	07	301	CLA	C1D-ND-C4D	-9.18	99.82	106.33
29	1B	603	CLA	C1D-ND-C4D	-9.18	99.82	106.33
29	1C	503	CLA	C2B-C1B-NB	9.18	116.38	110.23
29	05	309	CLA	C1D-ND-C4D	-9.17	99.82	106.33
29	06	609	CLA	C1D-ND-C4D	-9.17	99.82	106.33
29	02	611	CLA	C1D-ND-C4D	-9.17	99.82	106.33
29	1b	610	CLA	C2C-C1C-NC	9.17	118.56	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1S	316	CLA	C1D-ND-C4D	-9.16	99.83	106.33
29	1N	315	CLA	C1D-ND-C4D	-9.15	99.83	106.33
29	1b	615	CLA	C2B-C1B-NB	9.15	116.36	110.23
29	1r	304	CLA	C1D-ND-C4D	-9.14	99.84	106.33
30	1N	307	CHL	C2B-C1B-NB	9.14	116.36	110.23
29	1R	314	CLA	C2B-C1B-NB	9.14	116.36	110.23
29	1G	611	CLA	C2C-C1C-NC	9.14	118.53	109.97
29	1D	405	CLA	C2B-C1B-NB	9.13	116.36	110.23
30	00	305	CHL	C2B-C1B-NB	9.13	116.35	110.23
29	08	307	CLA	C1D-ND-C4D	-9.13	99.85	106.33
29	09	310	CLA	C1D-ND-C4D	-9.13	99.85	106.33
29	05	301	CLA	C1D-ND-C4D	-9.12	99.86	106.33
29	1b	610	CLA	C1D-ND-C4D	-9.12	99.86	106.33
29	1g	603	CLA	C1D-ND-C4D	-9.12	99.86	106.33
29	1b	606	CLA	CMD-C2D-C1D	9.11	140.77	124.71
29	1C	508	CLA	C1D-ND-C4D	-9.11	99.86	106.33
29	1S	310	CLA	C1D-ND-C4D	-9.10	99.87	106.33
29	02	609	CLA	C1D-ND-C4D	-9.10	99.87	106.33
29	1N	313	CLA	C1D-ND-C4D	-9.10	99.87	106.33
29	1N	311	CLA	C1D-ND-C4D	-9.10	99.87	106.33
29	1c	513	CLA	C1D-ND-C4D	-9.09	99.87	106.33
29	1d	407	CLA	C1D-ND-C4D	-9.09	99.88	106.33
29	1B	604	CLA	C1D-ND-C4D	-9.09	99.88	106.33
29	1D	402	CLA	C1D-ND-C4D	-9.09	99.88	106.33
29	07	307	CLA	C1D-ND-C4D	-9.08	99.88	106.33
29	04	309	CLA	C1D-ND-C4D	-9.08	99.88	106.33
29	1n	602	CLA	C1D-ND-C4D	-9.08	99.89	106.33
29	1b	611	CLA	C2C-C1C-NC	9.07	118.47	109.97
29	05	310	CLA	C1D-ND-C4D	-9.07	99.89	106.33
29	04	310	CLA	CMD-C2D-C1D	9.07	140.70	124.71
29	1c	514	CLA	C1D-ND-C4D	-9.07	99.89	106.33
29	1c	509	CLA	C1D-ND-C4D	-9.07	99.89	106.33
29	1C	506	CLA	C2B-C1B-NB	9.07	116.31	110.23
29	1S	314	CLA	C2B-C1B-NB	9.07	116.31	110.23
29	03	307	CLA	C1D-ND-C4D	-9.06	99.90	106.33
46	1r	316	XAT	C11-C10-C9	-9.06	114.38	127.31
29	00	312	CLA	C1D-ND-C4D	-9.06	99.90	106.33
29	1g	614	CLA	C2B-C1B-NB	9.05	116.30	110.23
29	04	306	CLA	C1D-ND-C4D	-9.04	99.91	106.33
29	1s	313	CLA	C1D-ND-C4D	-9.04	99.92	106.33
29	01	309	CLA	C2B-C1B-NB	9.03	116.28	110.23
29	1s	311	CLA	C1D-ND-C4D	-9.03	99.92	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	601	CLA	C1D-ND-C4D	-9.02	99.93	106.33
29	1g	612	CLA	C2C-C1C-NC	9.02	118.42	109.97
29	1r	311	CLA	C1D-ND-C4D	-9.02	99.93	106.33
29	01	310	CLA	C1D-ND-C4D	-9.01	99.93	106.33
29	1b	602	CLA	C2B-C1B-NB	9.01	116.27	110.23
29	1S	313	CLA	C1D-ND-C4D	-9.01	99.93	106.33
29	1r	303	CLA	C1D-ND-C4D	-9.00	99.94	106.33
29	1G	614	CLA	C1D-ND-C4D	-8.99	99.95	106.33
30	1g	606	CHL	C2B-C1B-NB	8.99	116.26	110.23
29	1C	502	CLA	C2C-C1C-NC	8.99	118.39	109.97
29	1D	405	CLA	C1D-ND-C4D	-8.98	99.95	106.33
29	1c	508	CLA	C2C-C1C-NC	8.98	118.38	109.97
29	05	303	CLA	C1D-ND-C4D	-8.97	99.96	106.33
29	1R	306	CLA	C2B-C1B-NB	8.96	116.24	110.23
29	1g	610	CLA	C1D-ND-C4D	-8.96	99.97	106.33
29	1b	608	CLA	C2C-C1C-NC	8.96	118.36	109.97
29	1N	312	CLA	C1D-ND-C4D	-8.95	99.98	106.33
29	1G	603	CLA	C1D-ND-C4D	-8.94	99.98	106.33
29	05	312	CLA	C1D-ND-C4D	-8.94	99.98	106.33
29	1B	612	CLA	C2B-C1B-NB	8.94	116.22	110.23
29	09	312	CLA	C1D-ND-C4D	-8.93	99.99	106.33
29	03	308	CLA	C1D-ND-C4D	-8.93	99.99	106.33
29	1G	602	CLA	C1D-ND-C4D	-8.93	99.99	106.33
29	1b	612	CLA	C1D-ND-C4D	-8.93	99.99	106.33
29	1b	617	CLA	C1D-ND-C4D	-8.93	99.99	106.33
29	1n	614	CLA	C1D-ND-C4D	-8.93	99.99	106.33
29	1C	509	CLA	C1D-ND-C4D	-8.92	100.00	106.33
29	1A	404	CLA	C2B-C1B-NB	8.91	116.21	110.23
29	1c	509	CLA	C2B-C1B-NB	8.90	116.20	110.23
29	1B	608	CLA	C2C-C1C-NC	8.90	118.31	109.97
29	1s	315	CLA	C1D-ND-C4D	-8.89	100.02	106.33
29	08	309	CLA	C2B-C1B-NB	8.88	116.19	110.23
29	1r	314	CLA	C2B-C1B-NB	8.88	116.19	110.23
29	1b	607	CLA	C1D-ND-C4D	-8.88	100.03	106.33
29	09	311	CLA	C2C-C1C-NC	8.88	118.29	109.97
29	01	312	CLA	C2B-C1B-NB	8.88	116.18	110.23
29	01	308	CLA	C1D-ND-C4D	-8.88	100.03	106.33
29	1N	314	CLA	C2C-C1C-NC	8.88	118.29	109.97
29	09	309	CLA	C1D-ND-C4D	-8.87	100.03	106.33
29	00	309	CLA	C1D-ND-C4D	-8.87	100.03	106.33
29	1n	610	CLA	C1D-ND-C4D	-8.87	100.03	106.33
29	1c	514	CLA	C2B-C1B-NB	8.87	116.18	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	616	CLA	C1D-ND-C4D	-8.87	100.04	106.33
29	1C	505	CLA	C2C-C1C-NC	8.86	118.27	109.97
29	1B	611	CLA	C2C-C1C-NC	8.86	118.27	109.97
29	1G	602	CLA	C2B-C1B-NB	8.86	116.17	110.23
29	1d	407	CLA	C2B-C1B-NB	8.86	116.17	110.23
29	1r	310	CLA	C1D-ND-C4D	-8.86	100.04	106.33
29	1C	509	CLA	C2C-C1C-NC	8.85	118.27	109.97
29	1c	507	CLA	CMD-C2D-C1D	8.85	140.32	124.71
29	1n	612	CLA	C1D-ND-C4D	-8.85	100.05	106.33
29	04	314	CLA	C2B-C1B-NB	8.85	116.16	110.23
29	1N	304	CLA	C1D-ND-C4D	-8.84	100.06	106.33
29	1N	305	CLA	C1D-ND-C4D	-8.83	100.06	106.33
29	1g	614	CLA	C1D-ND-C4D	-8.83	100.06	106.33
29	1c	504	CLA	C2C-C1C-NC	8.83	118.24	109.97
29	1c	505	CLA	C2B-C1B-NB	8.82	116.14	110.23
29	1C	510	CLA	C1D-ND-C4D	-8.81	100.07	106.33
29	05	303	CLA	C2B-C1B-NB	8.81	116.14	110.23
29	04	314	CLA	C1D-ND-C4D	-8.81	100.07	106.33
29	1b	615	CLA	C1D-ND-C4D	-8.81	100.08	106.33
29	1G	604	CLA	C1D-ND-C4D	-8.80	100.08	106.33
29	1b	611	CLA	C1D-ND-C4D	-8.80	100.08	106.33
29	1B	603	CLA	CMD-C2D-C1D	8.79	140.21	124.71
29	1S	314	CLA	C1D-ND-C4D	-8.79	100.09	106.33
29	1G	611	CLA	C1D-ND-C4D	-8.79	100.09	106.33
29	1n	611	CLA	C1D-ND-C4D	-8.79	100.09	106.33
29	00	302	CLA	C2B-C1B-NB	8.78	116.12	110.23
29	1r	309	CLA	C2B-C1B-NB	8.78	116.12	110.23
29	08	312	CLA	C2B-C1B-NB	8.77	116.11	110.23
29	1b	603	CLA	C1D-ND-C4D	-8.77	100.11	106.33
29	1c	503	CLA	C2B-C1B-NB	8.77	116.11	110.23
29	07	310	CLA	C1D-ND-C4D	-8.76	100.11	106.33
29	1n	612	CLA	C2C-C1C-NC	8.76	118.18	109.97
29	1C	505	CLA	CMD-C2D-C1D	8.76	140.15	124.71
29	1D	404	CLA	C1D-ND-C4D	-8.76	100.11	106.33
30	09	308	CHL	C2B-C1B-NB	8.75	116.10	110.23
29	08	312	CLA	C1D-ND-C4D	-8.75	100.12	106.33
29	1s	312	CLA	C1D-ND-C4D	-8.75	100.12	106.33
29	01	312	CLA	C1D-ND-C4D	-8.75	100.12	106.33
29	1C	503	CLA	C1D-ND-C4D	-8.74	100.12	106.33
29	02	609	CLA	C2B-C1B-NB	8.73	116.08	110.23
29	1c	507	CLA	C2B-C1B-NB	8.73	116.08	110.23
29	00	311	CLA	C2C-C1C-NC	8.71	118.13	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	501	CLA	C1D-ND-C4D	-8.71	100.15	106.33
29	1a	406	CLA	C2B-C1B-NB	8.69	116.06	110.23
29	1b	602	CLA	C1D-ND-C4D	-8.69	100.16	106.33
29	03	309	CLA	C2B-C1B-NB	8.69	116.06	110.23
29	1B	616	CLA	C2C-C1C-NC	8.69	118.11	109.97
29	1B	607	CLA	C1D-ND-C4D	-8.68	100.17	106.33
30	00	307	CHL	CMD-C2D-C1D	8.68	140.01	124.71
29	1n	602	CLA	C2B-C1B-NB	8.68	116.05	110.23
29	00	303	CLA	C1D-ND-C4D	-8.68	100.17	106.33
29	04	309	CLA	C2B-C1B-NB	8.67	116.05	110.23
29	1R	309	CLA	C4A-NA-C1A	8.67	110.60	106.71
29	1r	310	CLA	C2B-C1B-NB	8.66	116.04	110.23
29	1G	613	CLA	C2B-C1B-NB	8.66	116.04	110.23
29	1n	614	CLA	C2B-C1B-NB	8.66	116.04	110.23
29	1s	312	CLA	C2B-C1B-NB	8.65	116.03	110.23
29	1B	613	CLA	C2C-C1C-NC	8.65	118.07	109.97
29	05	309	CLA	C2B-C1B-NB	8.65	116.03	110.23
29	1B	601	CLA	C2B-C1B-NB	8.65	116.03	110.23
29	08	310	CLA	C2B-C1B-NB	8.64	116.03	110.23
30	1n	606	CHL	C2B-C1B-NB	8.64	116.03	110.23
29	07	301	CLA	C2B-C1B-NB	8.64	116.03	110.23
29	02	612	CLA	C2C-C1C-NC	8.64	118.07	109.97
29	1C	510	CLA	C2C-C1C-NC	8.64	118.07	109.97
29	1r	312	CLA	C2B-C1B-NB	8.64	116.02	110.23
29	02	612	CLA	CMD-C2D-C1D	8.64	139.94	124.71
29	1S	306	CLA	C2C-C1C-NC	8.63	118.06	109.97
29	1S	311	CLA	C2C-C1C-NC	8.63	118.06	109.97
29	1A	404	CLA	CMD-C2D-C1D	8.63	139.92	124.71
29	1S	306	CLA	C1D-ND-C4D	-8.63	100.20	106.33
29	1c	513	CLA	C2C-C1C-NC	8.63	118.05	109.97
29	07	309	CLA	C2B-C1B-NB	8.62	116.01	110.23
29	1c	515	CLA	C2B-C1B-NB	8.62	116.01	110.23
29	1N	315	CLA	C2B-C1B-NB	8.62	116.01	110.23
29	09	303	CLA	C2C-C1C-NC	8.62	118.05	109.97
29	1n	604	CLA	C1D-ND-C4D	-8.62	100.21	106.33
29	08	309	CLA	C2C-C1C-NC	8.61	118.04	109.97
29	01	309	CLA	C1D-ND-C4D	-8.61	100.22	106.33
29	1D	402	CLA	C2C-C1C-NC	8.61	118.04	109.97
30	1S	304	CHL	CMD-C2D-C1D	8.61	139.88	124.71
29	06	609	CLA	C2B-C1B-NB	8.60	116.00	110.23
29	02	613	CLA	C2B-C1B-NB	8.60	116.00	110.23
29	1R	302	CLA	C2B-C1B-NB	8.60	116.00	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	05	306	CHL	CMD-C2D-C1D	8.60	139.86	124.71
30	1R	313	CHL	CMD-C2D-C1D	8.59	139.84	124.71
29	05	308	CLA	C2B-C1B-NB	8.58	115.99	110.23
29	08	308	CLA	C2B-C1B-NB	8.58	115.99	110.23
29	1g	612	CLA	C1D-ND-C4D	-8.58	100.24	106.33
29	1C	504	CLA	C2B-C1B-NB	8.58	115.98	110.23
29	07	307	CLA	C2B-C1B-NB	8.57	115.98	110.23
29	1B	605	CLA	C2C-C1C-NC	8.56	118.00	109.97
29	1r	303	CLA	C2B-C1B-NB	8.56	115.97	110.23
30	1G	601	CHL	CMD-C2D-C1D	8.56	139.80	124.71
29	1B	603	CLA	C2B-C1B-NB	8.56	115.97	110.23
29	1n	610	CLA	C2B-C1B-NB	8.56	115.97	110.23
29	1b	602	CLA	C2C-C1C-NC	8.56	117.99	109.97
30	1R	305	CHL	CMD-C2D-C1D	8.55	139.79	124.71
29	1s	316	CLA	C1D-ND-C4D	-8.55	100.26	106.33
29	07	307	CLA	C2C-C1C-NC	8.55	117.98	109.97
29	01	301	CLA	C1D-ND-C4D	-8.54	100.27	106.33
29	04	310	CLA	C2B-C1B-NB	8.54	115.96	110.23
29	1c	504	CLA	C1D-ND-C4D	-8.54	100.27	106.33
30	1N	302	CHL	CMD-C2D-C1D	8.54	139.76	124.71
29	1b	605	CLA	C1D-ND-C4D	-8.53	100.27	106.33
30	00	304	CHL	CMD-C2D-C1D	8.53	139.75	124.71
29	1b	605	CLA	C2C-C1C-NC	8.53	117.96	109.97
29	1c	505	CLA	C1D-ND-C4D	-8.52	100.28	106.33
29	1b	614	CLA	C4A-NA-C1A	8.52	110.54	106.71
29	1d	406	CLA	CMD-C2D-C1D	8.52	139.72	124.71
29	06	602	CLA	C2C-C1C-NC	8.52	117.95	109.97
29	03	310	CLA	C2B-C1B-NB	8.52	115.94	110.23
29	1S	315	CLA	C2B-C1B-NB	8.51	115.94	110.23
29	1c	510	CLA	C2B-C1B-NB	8.51	115.94	110.23
29	05	310	CLA	C2C-C1C-NC	8.51	117.95	109.97
29	1N	304	CLA	C2B-C1B-NB	8.51	115.94	110.23
29	1S	310	CLA	C2B-C1B-NB	8.51	115.94	110.23
29	1c	505	CLA	C2C-C1C-NC	8.50	117.94	109.97
29	1A	407	CLA	C2B-C1B-NB	8.50	115.93	110.23
29	1S	316	CLA	C2B-C1B-NB	8.50	115.93	110.23
29	1B	608	CLA	C1D-ND-C4D	-8.50	100.30	106.33
29	08	309	CLA	C1D-ND-C4D	-8.50	100.30	106.33
29	1g	611	CLA	C2C-C1C-NC	8.50	117.93	109.97
29	1S	311	CLA	C1D-ND-C4D	-8.50	100.30	106.33
29	1G	603	CLA	C2B-C1B-NB	8.50	115.93	110.23
29	1N	312	CLA	C2B-C1B-NB	8.50	115.93	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	612	CLA	C1D-ND-C4D	-8.49	100.30	106.33
29	1s	307	CLA	C1D-ND-C4D	-8.49	100.30	106.33
29	1a	408	CLA	C2B-C1B-NB	8.49	115.93	110.23
29	04	312	CLA	C2B-C1B-NB	8.49	115.92	110.23
29	1R	307	CLA	C2B-C1B-NB	8.49	115.92	110.23
29	1G	612	CLA	C2B-C1B-NB	8.49	115.92	110.23
29	1G	611	CLA	C2B-C1B-NB	8.48	115.92	110.23
29	1n	603	CLA	C1D-ND-C4D	-8.47	100.31	106.33
30	1n	609	CHL	CMD-C2D-C1D	8.47	139.65	124.71
29	03	310	CLA	C1D-ND-C4D	-8.47	100.32	106.33
29	1d	407	CLA	C2C-C1C-NC	8.47	117.91	109.97
29	1S	311	CLA	C2B-C1B-NB	8.47	115.91	110.23
29	02	611	CLA	C2B-C1B-NB	8.46	115.91	110.23
29	1G	614	CLA	C2B-C1B-NB	8.46	115.91	110.23
30	1N	308	CHL	CMD-C2D-C1D	8.46	139.63	124.71
29	00	312	CLA	C2C-C1C-NC	8.46	117.90	109.97
29	1C	508	CLA	CMD-C2D-C1D	8.46	139.62	124.71
30	09	306	CHL	CMD-C2D-C1D	8.46	139.62	124.71
29	1c	514	CLA	C2C-C1C-NC	8.46	117.89	109.97
29	05	312	CLA	CMD-C2D-C1D	8.45	139.61	124.71
29	1N	313	CLA	C2B-C1B-NB	8.45	115.90	110.23
29	1c	510	CLA	C1D-ND-C4D	-8.44	100.34	106.33
29	1s	316	CLA	CMD-C2D-C1D	8.44	139.59	124.71
29	00	301	CLA	C2B-C1B-NB	8.44	115.89	110.23
29	1B	616	CLA	CMD-C2D-C1D	8.44	139.59	124.71
30	1g	608	CHL	CMD-C2D-C1D	8.44	139.59	124.71
30	1g	601	CHL	CMD-C2D-C1D	8.44	139.58	124.71
29	1b	611	CLA	C2B-C1B-NB	8.44	115.89	110.23
29	1s	311	CLA	C2B-C1B-NB	8.44	115.89	110.23
29	05	301	CLA	C2B-C1B-NB	8.43	115.89	110.23
29	06	611	CLA	C2C-C1C-NC	8.43	117.87	109.97
30	1N	309	CHL	CMD-C2D-C1D	8.43	139.57	124.71
29	1r	311	CLA	C2C-C1C-NC	8.42	117.86	109.97
29	1C	507	CLA	C2C-C1C-NC	8.42	117.86	109.97
30	1S	307	CHL	CMD-C2D-C1D	8.42	139.55	124.71
29	03	307	CLA	C2C-C1C-NC	8.42	117.86	109.97
29	1N	313	CLA	C2C-C1C-NC	8.41	117.85	109.97
29	1c	513	CLA	CMD-C2D-C1D	8.41	139.53	124.71
29	02	610	CLA	C2C-C1C-NC	8.41	117.85	109.97
29	01	308	CLA	C2B-C1B-NB	8.41	115.87	110.23
29	09	312	CLA	C2B-C1B-NB	8.41	115.87	110.23
29	1N	311	CLA	C2B-C1B-NB	8.41	115.87	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1R	310	CLA	C2B-C1B-NB	8.41	115.87	110.23
29	1b	607	CLA	CMD-C2D-C1D	8.40	139.52	124.71
29	1s	313	CLA	C2C-C1C-NC	8.40	117.84	109.97
29	03	312	CLA	C2C-C1C-NC	8.39	117.83	109.97
30	08	304	CHL	C2C-C3C-C4C	-8.39	100.51	106.49
29	00	303	CLA	C2C-C1C-NC	8.39	117.83	109.97
29	1c	506	CLA	C2B-C1B-NB	8.39	115.86	110.23
29	00	302	CLA	CMD-C2D-C1D	8.39	139.49	124.71
29	04	308	CLA	CMD-C2D-C1D	8.39	139.49	124.71
29	09	309	CLA	C2B-C1B-NB	8.38	115.85	110.23
29	1B	604	CLA	C2B-C1B-NB	8.38	115.85	110.23
29	06	611	CLA	C2B-C1B-NB	8.38	115.85	110.23
29	1d	403	CLA	C2B-C1B-NB	8.38	115.85	110.23
29	1r	308	CLA	C2C-C1C-NC	8.38	117.82	109.97
29	1G	614	CLA	C2C-C1C-NC	8.38	117.82	109.97
29	02	610	CLA	C2B-C1B-NB	8.38	115.85	110.23
29	1n	603	CLA	C2B-C1B-NB	8.38	115.85	110.23
30	09	308	CHL	CMD-C2D-C1D	8.37	139.47	124.71
30	03	311	CHL	CMD-C2D-C1D	8.37	139.47	124.71
30	1G	608	CHL	CMD-C2D-C1D	8.37	139.46	124.71
29	04	309	CLA	CMD-C2D-C1D	8.37	139.46	124.71
29	1s	311	CLA	C2C-C1C-NC	8.37	117.81	109.97
29	1B	613	CLA	CMD-C2D-C1D	8.37	139.46	124.71
29	08	306	CLA	C2C-C1C-NC	8.37	117.81	109.97
29	1B	602	CLA	C2C-C1C-NC	8.36	117.81	109.97
29	00	302	CLA	C2C-C1C-NC	8.36	117.81	109.97
29	1n	603	CLA	C2C-C1C-NC	8.36	117.81	109.97
29	01	313	CLA	C2B-C1B-NB	8.35	115.83	110.23
29	1d	403	CLA	CMD-C2D-C1D	8.35	139.44	124.71
29	1D	401	CLA	C2C-C1C-NC	8.35	117.80	109.97
29	05	310	CLA	C2B-C1B-NB	8.35	115.83	110.23
29	1C	502	CLA	C1D-ND-C4D	-8.35	100.40	106.33
30	01	304	CHL	CMD-C2D-C1D	8.35	139.43	124.71
29	04	311	CLA	C2B-C1B-NB	8.35	115.83	110.23
30	1S	309	CHL	CMD-C2D-C1D	8.35	139.43	124.71
29	1r	308	CLA	C2B-C1B-NB	8.35	115.83	110.23
30	1g	605	CHL	CMD-C2D-C1D	8.35	139.43	124.71
29	1c	513	CLA	C2B-C1B-NB	8.35	115.83	110.23
29	1g	612	CLA	C2B-C1B-NB	8.35	115.83	110.23
30	02	604	CHL	CMD-C2D-C1D	8.34	139.42	124.71
29	1R	308	CLA	C1D-ND-C4D	-8.34	100.41	106.33
30	1r	305	CHL	CMD-C2D-C1D	8.34	139.41	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	08	302	CHL	CMD-C2D-C1D	8.34	139.41	124.71
30	1R	304	CHL	CMD-C2D-C1D	8.33	139.40	124.71
29	1N	304	CLA	C2C-C1C-NC	8.33	117.78	109.97
30	1n	607	CHL	CMD-C2D-C1D	8.33	139.40	124.71
29	1g	604	CLA	C2C-C1C-NC	8.33	117.78	109.97
29	1c	511	CLA	CMD-C2D-C1D	8.33	139.40	124.71
29	1S	313	CLA	C2C-C1C-NC	8.33	117.78	109.97
29	1b	608	CLA	C1D-ND-C4D	-8.33	100.42	106.33
30	09	304	CHL	CMD-C2D-C1D	8.33	139.39	124.71
29	1n	611	CLA	C2B-C1B-NB	8.33	115.82	110.23
29	03	308	CLA	C2B-C1B-NB	8.33	115.81	110.23
30	01	302	CHL	CMD-C2D-C1D	8.33	139.39	124.71
29	09	312	CLA	C2C-C1C-NC	8.32	117.77	109.97
29	04	306	CLA	C2B-C1B-NB	8.32	115.81	110.23
29	00	310	CLA	C2B-C1B-NB	8.32	115.81	110.23
29	07	309	CLA	CMD-C2D-C1D	8.32	139.38	124.71
29	04	307	CLA	C2C-C1C-NC	8.32	117.77	109.97
29	1S	312	CLA	C2C-C1C-NC	8.32	117.77	109.97
29	1s	311	CLA	CMD-C2D-C1D	8.32	139.37	124.71
30	1S	308	CHL	CMD-C2D-C1D	8.32	139.37	124.71
29	01	312	CLA	C2C-C1C-NC	8.32	117.76	109.97
29	1b	609	CLA	C2C-C1C-NC	8.32	117.76	109.97
29	1r	303	CLA	C2C-C1C-NC	8.32	117.76	109.97
29	06	610	CLA	C2B-C1B-NB	8.31	115.81	110.23
29	1N	312	CLA	CMD-C2D-C1D	8.31	139.37	124.71
29	02	614	CLA	C2B-C1B-NB	8.31	115.80	110.23
30	03	303	CHL	CMD-C2D-C1D	8.31	139.36	124.71
29	06	608	CLA	C2B-C1B-NB	8.31	115.80	110.23
29	08	311	CLA	C2B-C1B-NB	8.31	115.80	110.23
29	04	312	CLA	CMD-C2D-C1D	8.31	139.36	124.71
30	02	607	CHL	CMD-C2D-C1D	8.31	139.35	124.71
29	02	611	CLA	C2C-C1C-NC	8.31	117.75	109.97
29	1s	307	CLA	C2C-C1C-NC	8.31	117.75	109.97
29	1B	615	CLA	C2B-C1B-NB	8.31	115.80	110.23
29	1R	312	CLA	C2B-C1B-NB	8.30	115.80	110.23
30	06	604	CHL	CMD-C2D-C1D	8.30	139.35	124.71
29	1b	604	CLA	C2C-C1C-NC	8.30	117.75	109.97
29	01	310	CLA	C2B-C1B-NB	8.30	115.80	110.23
29	1n	612	CLA	C2B-C1B-NB	8.30	115.80	110.23
30	04	302	CHL	CMD-C2D-C1D	8.30	139.34	124.71
30	1r	306	CHL	C2C-C3C-C4C	-8.30	100.58	106.49
30	07	306	CHL	CMD-C2D-C1D	8.30	139.33	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1N	306	CHL	CMD-C2D-C1D	8.30	139.33	124.71
29	1s	306	CLA	C2C-C1C-NC	8.29	117.74	109.97
30	1G	606	CHL	CMD-C2D-C1D	8.29	139.33	124.71
29	1s	315	CLA	C2C-C1C-NC	8.29	117.74	109.97
29	05	309	CLA	C2C-C1C-NC	8.29	117.74	109.97
30	07	305	CHL	CMD-C2D-C1D	8.29	139.32	124.71
29	1s	306	CLA	CMD-C2D-C1D	8.29	139.32	124.71
29	04	306	CLA	CMD-C2D-C1D	8.29	139.32	124.71
29	00	312	CLA	C2B-C1B-NB	8.29	115.79	110.23
30	1r	306	CHL	CMD-C2D-C1D	8.29	139.32	124.71
29	05	302	CLA	C2C-C1C-NC	8.29	117.73	109.97
29	03	307	CLA	C2B-C1B-NB	8.28	115.79	110.23
29	1R	311	CLA	C2C-C1C-NC	8.28	117.73	109.97
29	1C	503	CLA	CMD-C2D-C1D	8.28	139.31	124.71
29	1r	312	CLA	C2C-C1C-NC	8.28	117.73	109.97
30	1n	605	CHL	CMD-C2D-C1D	8.28	139.31	124.71
30	02	603	CHL	CMD-C2D-C1D	8.28	139.30	124.71
29	03	309	CLA	C2C-C1C-NC	8.28	117.73	109.97
30	07	304	CHL	CMD-C2D-C1D	8.28	139.30	124.71
29	03	309	CLA	CMD-C2D-C1D	8.27	139.30	124.71
29	1D	405	CLA	CMD-C2D-C1D	8.27	139.29	124.71
29	1C	510	CLA	CMD-C2D-C1D	8.27	139.29	124.71
29	1G	612	CLA	C2C-C1C-NC	8.27	117.72	109.97
29	1a	405	CLA	C2B-C1B-NB	8.26	115.77	110.23
29	04	310	CLA	C2C-C1C-NC	8.26	117.71	109.97
29	1s	314	CLA	C2C-C1C-NC	8.26	117.71	109.97
29	02	609	CLA	C2C-C1C-NC	8.26	117.71	109.97
30	06	605	CHL	CMD-C2D-C1D	8.26	139.27	124.71
30	07	303	CHL	CMD-C2D-C1D	8.26	139.26	124.71
29	1R	311	CLA	CMD-C2D-C1D	8.26	139.26	124.71
29	07	309	CLA	C2C-C1C-NC	8.25	117.70	109.97
29	1C	513	CLA	C2B-C1B-NB	8.25	115.77	110.23
29	1b	617	CLA	C2C-C1C-NC	8.25	117.70	109.97
29	1r	311	CLA	C2B-C1B-NB	8.25	115.76	110.23
30	05	307	CHL	CMD-C2D-C1D	8.25	139.26	124.71
29	04	312	CLA	C2C-C1C-NC	8.25	117.70	109.97
29	07	310	CLA	C2B-C1B-NB	8.25	115.76	110.23
29	1b	605	CLA	CMD-C2D-C1D	8.25	139.25	124.71
29	1B	612	CLA	C1D-ND-C4D	-8.25	100.48	106.33
29	1B	614	CLA	C2C-C1C-NC	8.25	117.70	109.97
30	1n	608	CHL	CMD-C2D-C1D	8.25	139.25	124.71
30	09	307	CHL	CMD-C2D-C1D	8.25	139.24	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	512	CLA	C2B-C1B-NB	8.24	115.76	110.23
29	09	310	CLA	C2C-C1C-NC	8.24	117.69	109.97
29	09	303	CLA	C1D-ND-C4D	-8.24	100.48	106.33
30	03	302	CHL	CMD-C2D-C1D	8.24	139.23	124.71
30	05	315	CHL	CMD-C2D-C1D	8.24	139.23	124.71
29	1S	315	CLA	CMD-C2D-C1D	8.24	139.23	124.71
30	1r	307	CHL	CMD-C2D-C1D	8.24	139.23	124.71
29	07	312	CLA	C2C-C1C-NC	8.23	117.69	109.97
29	01	311	CLA	C2C-C1C-NC	8.23	117.69	109.97
29	02	602	CLA	C2C-C1C-NC	8.23	117.69	109.97
29	1N	312	CLA	C2C-C1C-NC	8.23	117.69	109.97
30	1N	310	CHL	CMD-C2D-C1D	8.23	139.22	124.71
29	08	310	CLA	C2C-C1C-NC	8.23	117.68	109.97
29	1c	507	CLA	C1D-ND-C4D	-8.23	100.49	106.33
29	1s	313	CLA	C2B-C1B-NB	8.23	115.75	110.23
30	02	601	CHL	CMD-C2D-C1D	8.22	139.21	124.71
30	1G	605	CHL	CMD-C2D-C1D	8.22	139.21	124.71
29	1B	609	CLA	C1D-ND-C4D	-8.22	100.49	106.33
29	1G	610	CLA	C2B-C1B-NB	8.22	115.74	110.23
29	1S	305	CLA	C2B-C1B-NB	8.22	115.74	110.23
30	1s	309	CHL	CMD-C2D-C1D	8.22	139.20	124.71
29	1C	510	CLA	C2B-C1B-NB	8.22	115.74	110.23
29	06	609	CLA	C2C-C1C-NC	8.22	117.67	109.97
29	1b	609	CLA	C1D-ND-C4D	-8.22	100.50	106.33
29	04	311	CLA	C2C-C1C-NC	8.22	117.67	109.97
30	00	308	CHL	CMD-C2D-C1D	8.21	139.19	124.71
30	06	603	CHL	CMD-C2D-C1D	8.21	139.19	124.71
29	06	608	CLA	C2C-C1C-NC	8.21	117.67	109.97
30	06	601	CHL	CMD-C2D-C1D	8.21	139.18	124.71
29	1G	604	CLA	C2C-C1C-NC	8.21	117.66	109.97
30	04	303	CHL	CMD-C2D-C1D	8.21	139.18	124.71
29	02	613	CLA	C2C-C1C-NC	8.21	117.66	109.97
29	1n	613	CLA	C1D-ND-C4D	-8.21	100.50	106.33
29	1D	404	CLA	C2C-C1C-NC	8.21	117.66	109.97
29	1N	303	CLA	C2B-C1B-NB	8.21	115.73	110.23
30	04	305	CHL	CMD-C2D-C1D	8.20	139.17	124.71
29	07	302	CLA	CMD-C2D-C1D	8.20	139.17	124.71
29	1B	609	CLA	C2B-C1B-NB	8.20	115.73	110.23
30	00	305	CHL	CMD-C2D-C1D	8.20	139.16	124.71
29	1R	314	CLA	CMD-C2D-C1D	8.20	139.16	124.71
29	1g	603	CLA	C2B-C1B-NB	8.20	115.73	110.23
30	05	313	CHL	CMD-C2D-C1D	8.19	139.15	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	09	301	CLA	C2B-C1B-NB	8.19	115.72	110.23
29	1n	611	CLA	CMD-C2D-C1D	8.19	139.15	124.71
30	1s	310	CHL	CMD-C2D-C1D	8.19	139.15	124.71
29	1c	512	CLA	C2C-C1C-NC	8.19	117.64	109.97
30	1g	609	CHL	CMD-C2D-C1D	8.19	139.15	124.71
30	08	301	CHL	CMD-C2D-C1D	8.19	139.15	124.71
29	03	308	CLA	C2C-C1C-NC	8.19	117.64	109.97
29	08	307	CLA	C2C-C1C-NC	8.19	117.64	109.97
29	1b	611	CLA	CMD-C2D-C1D	8.19	139.14	124.71
29	1B	606	CLA	C2C-C1C-NC	8.19	117.64	109.97
30	1G	607	CHL	CMD-C2D-C1D	8.18	139.13	124.71
29	1D	404	CLA	CMD-C2D-C1D	8.18	139.12	124.71
29	1n	604	CLA	C2C-C1C-NC	8.18	117.63	109.97
29	1C	509	CLA	CMD-C2D-C1D	8.18	139.12	124.71
29	1g	614	CLA	CMD-C2D-C1D	8.18	139.12	124.71
46	1G	617	XAT	O24-C25-C24	8.17	119.52	113.38
29	1B	614	CLA	C4A-NA-C1A	8.17	110.38	106.71
29	1R	309	CLA	CMD-C2D-C1D	8.17	139.11	124.71
29	1b	616	CLA	C2C-C1C-NC	8.17	117.62	109.97
29	09	312	CLA	CMD-C2D-C1D	8.17	139.11	124.71
29	1R	311	CLA	C2B-C1B-NB	8.17	115.71	110.23
29	1g	614	CLA	C2C-C1C-NC	8.16	117.62	109.97
29	1r	310	CLA	C2C-C1C-NC	8.16	117.62	109.97
29	03	306	CLA	C2B-C1B-NB	8.16	115.70	110.23
29	1g	604	CLA	C2B-C1B-NB	8.16	115.70	110.23
29	1a	405	CLA	CMD-C2D-C1D	8.16	139.10	124.71
29	1B	610	CLA	C2C-C1C-NC	8.16	117.62	109.97
29	1R	302	CLA	CMD-C2D-C1D	8.16	139.10	124.71
30	02	606	CHL	CMD-C2D-C1D	8.16	139.09	124.71
29	1b	615	CLA	CMD-C2D-C1D	8.16	139.09	124.71
29	00	310	CLA	C2C-C1C-NC	8.16	117.61	109.97
29	06	610	CLA	C2C-C1C-NC	8.16	117.61	109.97
29	1S	312	CLA	C2B-C1B-NB	8.15	115.70	110.23
29	07	310	CLA	C2C-C1C-NC	8.15	117.61	109.97
30	08	305	CHL	CMD-C2D-C1D	8.15	139.08	124.71
29	09	302	CLA	C2B-C1B-NB	8.15	115.69	110.23
29	09	310	CLA	C2B-C1B-NB	8.15	115.69	110.23
30	04	304	CHL	CMD-C2D-C1D	8.15	139.07	124.71
29	1C	505	CLA	C2B-C1B-NB	8.14	115.69	110.23
30	01	306	CHL	CMD-C2D-C1D	8.14	139.06	124.71
29	01	311	CLA	C2B-C1B-NB	8.14	115.69	110.23
29	1D	405	CLA	C2C-C1C-NC	8.13	117.59	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	314	CLA	C2B-C1B-NB	8.13	115.68	110.23
29	1g	604	CLA	C1D-ND-C4D	-8.13	100.56	106.33
29	1b	616	CLA	CMD-C2D-C1D	8.13	139.04	124.71
29	1c	509	CLA	CMD-C2D-C1D	8.13	139.04	124.71
29	1s	305	CLA	C2B-C1B-NB	8.13	115.68	110.23
29	1b	614	CLA	CMD-C2D-C1D	8.12	139.03	124.71
29	1b	606	CLA	C2C-C1C-NC	8.12	117.58	109.97
29	1B	605	CLA	C1D-ND-C4D	-8.12	100.57	106.33
29	1C	501	CLA	C2C-C1C-NC	8.12	117.58	109.97
29	01	308	CLA	C2C-C1C-NC	8.12	117.58	109.97
30	1g	606	CHL	CMD-C2D-C1D	8.11	139.01	124.71
29	07	308	CLA	C2B-C1B-NB	8.11	115.67	110.23
30	03	304	CHL	CMD-C2D-C1D	8.11	139.00	124.71
29	1R	314	CLA	C2C-C1C-NC	8.11	117.57	109.97
29	1n	614	CLA	C2C-C1C-NC	8.11	117.57	109.97
30	1S	304	CHL	C2C-C3C-C4C	-8.11	100.71	106.49
31	1g	616	LUT	C35-C15-C14	8.11	140.08	123.47
29	1s	315	CLA	C2B-C1B-NB	8.10	115.67	110.23
29	1C	505	CLA	C1D-ND-C4D	-8.10	100.58	106.33
29	00	312	CLA	CMD-C2D-C1D	8.10	139.00	124.71
29	1N	315	CLA	CMD-C2D-C1D	8.10	138.99	124.71
30	05	305	CHL	CMD-C2D-C1D	8.10	138.99	124.71
29	1c	505	CLA	CMD-C2D-C1D	8.10	138.99	124.71
30	1r	313	CHL	CMD-C2D-C1D	8.10	138.99	124.71
29	01	313	CLA	C2C-C1C-NC	8.10	117.56	109.97
29	02	609	CLA	CMD-C2D-C1D	8.09	138.98	124.71
29	1r	314	CLA	C2C-C1C-NC	8.09	117.55	109.97
29	01	310	CLA	C2C-C1C-NC	8.09	117.55	109.97
29	08	310	CLA	CMD-C2D-C1D	8.08	138.96	124.71
29	1B	604	CLA	CMD-C2D-C1D	8.08	138.96	124.71
29	1B	609	CLA	C2C-C1C-NC	8.08	117.55	109.97
29	1G	613	CLA	CMD-C2D-C1D	8.08	138.96	124.71
29	1D	401	CLA	CMD-C2D-C1D	8.08	138.96	124.71
30	1G	609	CHL	C2C-C3C-C4C	-8.08	100.73	106.49
29	03	306	CLA	CMD-C2D-C1D	8.08	138.95	124.71
29	06	602	CLA	CMD-C2D-C1D	8.08	138.95	124.71
30	00	306	CHL	C2C-C3C-C4C	-8.08	100.73	106.49
29	02	602	CLA	C2B-C1B-NB	8.08	115.65	110.23
46	1r	316	XAT	C15-C14-C13	-8.08	115.78	127.31
29	1G	613	CLA	C2C-C1C-NC	8.08	117.54	109.97
29	01	309	CLA	CMD-C2D-C1D	8.08	138.95	124.71
29	04	311	CLA	CMD-C2D-C1D	8.08	138.95	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1N	313	CLA	CMD-C2D-C1D	8.07	138.94	124.71
29	08	312	CLA	C2C-C1C-NC	8.07	117.54	109.97
46	1R	316	XAT	O4-C5-C4	8.07	119.45	113.38
29	09	302	CLA	CMD-C2D-C1D	8.07	138.94	124.71
29	1c	508	CLA	C1D-ND-C4D	-8.07	100.60	106.33
29	04	307	CLA	C2B-C1B-NB	8.07	115.64	110.23
29	04	308	CLA	C2C-C1C-NC	8.07	117.53	109.97
29	1c	507	CLA	C2C-C1C-NC	8.06	117.53	109.97
29	1b	616	CLA	C2B-C1B-NB	8.06	115.64	110.23
29	07	312	CLA	C2B-C1B-NB	8.06	115.64	110.23
29	02	613	CLA	CMD-C2D-C1D	8.06	138.92	124.71
29	1N	305	CLA	CMD-C2D-C1D	8.06	138.91	124.71
29	1G	611	CLA	CMD-C2D-C1D	8.06	138.91	124.71
29	06	609	CLA	CMD-C2D-C1D	8.05	138.91	124.71
30	1s	304	CHL	C2C-C3C-C4C	-8.05	100.75	106.49
29	1B	601	CLA	CMD-C2D-C1D	8.05	138.91	124.71
30	1N	308	CHL	C2C-C3C-C4C	-8.05	100.75	106.49
29	01	301	CLA	CMD-C2D-C1D	8.05	138.90	124.71
29	1S	306	CLA	CMD-C2D-C1D	8.05	138.90	124.71
30	01	303	CHL	C2C-C3C-C4C	-8.05	100.75	106.49
29	1C	506	CLA	CMD-C2D-C1D	8.05	138.90	124.71
29	1c	510	CLA	C2C-C1C-NC	8.05	117.51	109.97
29	08	306	CLA	C2B-C1B-NB	8.05	115.63	110.23
29	1C	507	CLA	C1D-ND-C4D	-8.04	100.62	106.33
29	1s	314	CLA	CMD-C2D-C1D	8.04	138.89	124.71
29	1r	304	CLA	CMD-C2D-C1D	8.04	138.88	124.71
29	1r	309	CLA	CMD-C2D-C1D	8.04	138.88	124.71
29	1c	509	CLA	C2C-C1C-NC	8.04	117.50	109.97
29	1s	307	CLA	C2B-C1B-NB	8.04	115.62	110.23
29	1C	503	CLA	C2C-C1C-NC	8.03	117.50	109.97
30	1n	607	CHL	C2C-C3C-C4C	-8.03	100.76	106.49
29	09	317	CLA	C2B-C1B-NB	8.03	115.62	110.23
29	1R	310	CLA	C2C-C1C-NC	8.03	117.50	109.97
29	1g	602	CLA	C2B-C1B-NB	8.03	115.61	110.23
29	06	611	CLA	CMD-C2D-C1D	8.03	138.86	124.71
29	07	308	CLA	C2C-C1C-NC	8.03	117.49	109.97
29	02	614	CLA	CMD-C2D-C1D	8.03	138.86	124.71
29	03	307	CLA	CMD-C2D-C1D	8.02	138.86	124.71
29	1G	610	CLA	CMD-C2D-C1D	8.02	138.85	124.71
29	1S	312	CLA	CMD-C2D-C1D	8.02	138.84	124.71
29	05	302	CLA	CMD-C2D-C1D	8.01	138.84	124.71
29	1R	309	CLA	C3C-C4C-NC	8.01	119.56	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	606	CLA	C2B-C1B-NB	8.01	115.60	110.23
29	06	607	CLA	CMD-C2D-C1D	8.01	138.83	124.71
29	06	610	CLA	CMD-C2D-C1D	8.01	138.83	124.71
29	08	306	CLA	CMD-C2D-C1D	8.01	138.83	124.71
29	1d	407	CLA	CMD-C2D-C1D	8.01	138.82	124.71
29	1r	314	CLA	CMD-C2D-C1D	8.00	138.82	124.71
29	05	309	CLA	CMD-C2D-C1D	8.00	138.82	124.71
29	1R	312	CLA	CMD-C2D-C1D	8.00	138.82	124.71
29	1r	302	CLA	CMD-C2D-C1D	8.00	138.81	124.71
29	1c	506	CLA	C2C-C1C-NC	8.00	117.46	109.97
29	06	608	CLA	CMD-C2D-C1D	8.00	138.81	124.71
29	04	314	CLA	CMD-C2D-C1D	7.99	138.80	124.71
29	1D	402	CLA	CMD-C2D-C1D	7.99	138.80	124.71
29	1b	617	CLA	C2B-C1B-NB	7.99	115.59	110.23
29	06	607	CLA	C2B-C1B-NB	7.99	115.59	110.23
29	03	308	CLA	CMD-C2D-C1D	7.99	138.79	124.71
30	09	305	CHL	C2C-C3C-C4C	-7.99	100.80	106.49
29	1a	406	CLA	CMD-C2D-C1D	7.99	138.79	124.71
29	01	313	CLA	CMD-C2D-C1D	7.98	138.78	124.71
29	05	303	CLA	CMD-C2D-C1D	7.98	138.77	124.71
30	09	306	CHL	C2C-C3C-C4C	-7.98	100.80	106.49
29	08	307	CLA	CMD-C2D-C1D	7.98	138.77	124.71
29	02	608	CLA	C2B-C1B-NB	7.98	115.58	110.23
29	1B	611	CLA	CMD-C2D-C1D	7.98	138.77	124.71
29	08	309	CLA	CMD-C2D-C1D	7.98	138.77	124.71
29	1b	612	CLA	C2C-C1C-NC	7.97	117.44	109.97
29	1C	511	CLA	C2B-C1B-NB	7.97	115.58	110.23
29	07	308	CLA	CMD-C2D-C1D	7.97	138.76	124.71
29	08	307	CLA	C2B-C1B-NB	7.97	115.58	110.23
29	1g	610	CLA	C2B-C1B-NB	7.97	115.58	110.23
29	05	311	CLA	CMD-C2D-C1D	7.97	138.75	124.71
29	1B	615	CLA	CMD-C2D-C1D	7.97	138.75	124.71
29	1B	612	CLA	C2C-C1C-NC	7.97	117.43	109.97
29	1N	305	CLA	C2C-C1C-NC	7.97	117.43	109.97
29	1B	606	CLA	C2B-C1B-NB	7.96	115.57	110.23
29	1r	304	CLA	C2B-C1B-NB	7.96	115.57	110.23
29	07	301	CLA	C2C-C1C-NC	7.96	117.43	109.97
30	06	606	CHL	CMD-C2D-C1D	7.96	138.75	124.71
29	01	312	CLA	CMD-C2D-C1D	7.96	138.74	124.71
29	03	312	CLA	C2B-C1B-NB	7.96	115.57	110.23
30	08	304	CHL	CMD-C2D-C1D	7.96	138.74	124.71
29	01	307	CLA	C1D-ND-C4D	-7.95	100.69	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	05	304	CHL	CMD-C2D-C1D	7.95	138.72	124.71
30	1G	609	CHL	CMD-C2D-C1D	7.95	138.72	124.71
30	03	305	CHL	CMD-C2D-C1D	7.95	138.72	124.71
30	08	303	CHL	CMD-C2D-C1D	7.95	138.72	124.71
29	04	307	CLA	CMD-C2D-C1D	7.94	138.71	124.71
29	1R	307	CLA	CMD-C2D-C1D	7.94	138.71	124.71
29	1S	310	CLA	CMD-C2D-C1D	7.94	138.71	124.71
29	1C	512	CLA	CMD-C2D-C1D	7.94	138.70	124.71
29	1n	611	CLA	C2C-C1C-NC	7.94	117.41	109.97
29	1S	316	CLA	C2C-C1C-NC	7.93	117.40	109.97
29	07	307	CLA	CMD-C2D-C1D	7.93	138.69	124.71
29	05	308	CLA	CMD-C2D-C1D	7.93	138.69	124.71
29	08	312	CLA	CMD-C2D-C1D	7.93	138.69	124.71
30	07	311	CHL	CMD-C2D-C1D	7.93	138.69	124.71
29	09	303	CLA	CMD-C2D-C1D	7.92	138.68	124.71
29	1B	603	CLA	C2C-C1C-NC	7.92	117.39	109.97
29	1g	603	CLA	C2C-C1C-NC	7.92	117.39	109.97
29	1N	315	CLA	C2C-C1C-NC	7.92	117.39	109.97
29	04	314	CLA	C2C-C1C-NC	7.92	117.39	109.97
29	1r	311	CLA	CMD-C2D-C1D	7.92	138.67	124.71
29	1B	606	CLA	C1D-ND-C4D	-7.92	100.71	106.33
29	00	303	CLA	CMD-C2D-C1D	7.92	138.67	124.71
29	04	309	CLA	C2C-C1C-NC	7.92	117.39	109.97
29	1S	306	CLA	C2B-C1B-NB	7.92	115.54	110.23
30	01	303	CHL	CMD-C2D-C1D	7.91	138.65	124.71
29	1R	306	CLA	CMD-C2D-C1D	7.91	138.65	124.71
29	06	607	CLA	C2C-C1C-NC	7.90	117.37	109.97
29	1c	515	CLA	CMD-C2D-C1D	7.90	138.63	124.71
29	1s	312	CLA	CMD-C2D-C1D	7.89	138.63	124.71
29	1B	605	CLA	C2B-C1B-NB	7.89	115.52	110.23
29	1R	306	CLA	C2C-C1C-NC	7.89	117.36	109.97
29	02	612	CLA	C2B-C1B-NB	7.89	115.52	110.23
29	1r	312	CLA	CMD-C2D-C1D	7.89	138.62	124.71
29	03	312	CLA	CMD-C2D-C1D	7.89	138.61	124.71
29	1R	310	CLA	CMD-C2D-C1D	7.88	138.61	124.71
29	1N	305	CLA	C2B-C1B-NB	7.88	115.52	110.23
29	1N	304	CLA	CMD-C2D-C1D	7.88	138.60	124.71
29	1s	316	CLA	C2C-C1C-NC	7.88	117.36	109.97
29	1s	313	CLA	CMD-C2D-C1D	7.88	138.60	124.71
29	07	312	CLA	CMD-C2D-C1D	7.88	138.60	124.71
29	1d	406	CLA	C2B-C1B-NB	7.88	115.51	110.23
29	1B	615	CLA	C2C-C1C-NC	7.88	117.35	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	02	611	CLA	CMD-C2D-C1D	7.88	138.59	124.71
29	01	308	CLA	CMD-C2D-C1D	7.87	138.59	124.71
30	01	305	CHL	C2C-C3C-C4C	-7.87	100.88	106.49
29	02	610	CLA	CMD-C2D-C1D	7.87	138.59	124.71
29	1c	512	CLA	CMD-C2D-C1D	7.87	138.59	124.71
29	1B	602	CLA	CMD-C2D-C1D	7.87	138.58	124.71
29	09	302	CLA	C2C-C1C-NC	7.87	117.34	109.97
29	09	311	CLA	CMD-C2D-C1D	7.87	138.58	124.71
30	1S	309	CHL	C2C-C3C-C4C	-7.87	100.88	106.49
29	07	302	CLA	C3C-C4C-NC	7.86	119.39	110.57
29	1B	610	CLA	C1D-ND-C4D	-7.86	100.75	106.33
29	1S	313	CLA	CMD-C2D-C1D	7.85	138.56	124.71
29	1G	604	CLA	CMD-C2D-C1D	7.85	138.55	124.71
29	1b	617	CLA	CMD-C2D-C1D	7.85	138.55	124.71
29	1c	503	CLA	CMD-C2D-C1D	7.85	138.55	124.71
29	1n	613	CLA	C2B-C1B-NB	7.85	115.49	110.23
29	07	310	CLA	CMD-C2D-C1D	7.84	138.53	124.71
29	02	608	CLA	C2C-C1C-NC	7.83	117.31	109.97
29	04	306	CLA	C2C-C1C-NC	7.83	117.31	109.97
29	1B	604	CLA	C2C-C1C-NC	7.83	117.31	109.97
29	1B	612	CLA	CMD-C2D-C1D	7.83	138.52	124.71
29	1n	604	CLA	CMD-C2D-C1D	7.83	138.51	124.71
30	1N	307	CHL	CMD-C2D-C1D	7.83	138.51	124.71
29	04	308	CLA	C2B-C1B-NB	7.83	115.48	110.23
29	1g	613	CLA	C2C-C1C-NC	7.82	117.30	109.97
30	08	301	CHL	C2C-C3C-C4C	-7.82	100.91	106.49
29	01	307	CLA	CMD-C2D-C1D	7.82	138.50	124.71
30	1R	303	CHL	CMD-C2D-C1D	7.82	138.50	124.71
29	1r	302	CLA	C2B-C1B-NB	7.82	115.48	110.23
30	00	306	CHL	CMD-C2D-C1D	7.82	138.50	124.71
29	03	301	CLA	C2B-C1B-NB	7.82	115.47	110.23
29	1s	312	CLA	C2C-C1C-NC	7.82	117.30	109.97
29	1B	605	CLA	CMD-C2D-C1D	7.82	138.49	124.71
29	1n	614	CLA	CMD-C2D-C1D	7.82	138.49	124.71
29	1g	610	CLA	CMD-C2D-C1D	7.82	138.49	124.71
29	08	311	CLA	CMD-C2D-C1D	7.81	138.48	124.71
30	1R	304	CHL	C2C-C3C-C4C	-7.81	100.92	106.49
30	1G	608	CHL	C2C-C3C-C4C	-7.81	100.92	106.49
29	1n	602	CLA	CMD-C2D-C1D	7.80	138.47	124.71
29	1n	610	CLA	CMD-C2D-C1D	7.80	138.46	124.71
30	1s	308	CHL	CMD-C2D-C1D	7.80	138.45	124.71
29	1r	303	CLA	CMD-C2D-C1D	7.79	138.44	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	504	CLA	CMD-C2D-C1D	7.79	138.44	124.71
29	03	301	CLA	C2C-C1C-NC	7.78	117.27	109.97
30	01	304	CHL	C2C-C3C-C4C	-7.78	100.94	106.49
29	1b	604	CLA	C1D-ND-C4D	-7.78	100.81	106.33
29	03	301	CLA	CMD-C2D-C1D	7.77	138.41	124.71
29	1C	504	CLA	CMD-C2D-C1D	7.76	138.40	124.71
29	1g	604	CLA	CMD-C2D-C1D	7.76	138.40	124.71
29	1G	603	CLA	CMD-C2D-C1D	7.76	138.40	124.71
29	05	301	CLA	CMD-C2D-C1D	7.76	138.39	124.71
29	1G	614	CLA	CMD-C2D-C1D	7.75	138.37	124.71
29	1B	601	CLA	C2C-C1C-NC	7.75	117.23	109.97
29	1b	608	CLA	CMD-C2D-C1D	7.74	138.36	124.71
29	1n	603	CLA	CMD-C2D-C1D	7.74	138.36	124.71
29	1g	613	CLA	C2B-C1B-NB	7.74	115.42	110.23
29	1c	503	CLA	C2C-C1C-NC	7.74	117.22	109.97
30	1g	607	CHL	C2C-C3C-C4C	-7.74	100.97	106.49
29	1D	402	CLA	C2B-C1B-NB	7.74	115.42	110.23
29	05	303	CLA	C2C-C1C-NC	7.74	117.22	109.97
29	1c	508	CLA	CMD-C2D-C1D	7.74	138.35	124.71
29	08	311	CLA	C2C-C1C-NC	7.73	117.22	109.97
29	06	602	CLA	C2B-C1B-NB	7.73	115.42	110.23
29	05	302	CLA	C2B-C1B-NB	7.73	115.41	110.23
29	1R	312	CLA	C2C-C1C-NC	7.73	117.21	109.97
29	00	318	CLA	C2C-C1C-NC	7.73	117.21	109.97
29	1C	501	CLA	CMD-C2D-C1D	7.73	138.33	124.71
30	1n	605	CHL	C2C-C3C-C4C	-7.73	100.98	106.49
29	1C	513	CLA	C2C-C1C-NC	7.73	117.21	109.97
29	05	312	CLA	C2C-C1C-NC	7.72	117.21	109.97
29	09	309	CLA	CMD-C2D-C1D	7.72	138.31	124.71
29	09	311	CLA	C2B-C1B-NB	7.72	115.41	110.23
29	1g	610	CLA	C2C-C1C-NC	7.72	117.20	109.97
29	02	602	CLA	CMD-C2D-C1D	7.71	138.31	124.71
29	1S	316	CLA	CMD-C2D-C1D	7.71	138.29	124.71
29	1g	603	CLA	CMD-C2D-C1D	7.69	138.26	124.71
29	1S	315	CLA	C2C-C1C-NC	7.68	117.17	109.97
29	00	310	CLA	CMD-C2D-C1D	7.68	138.25	124.71
29	1d	403	CLA	C2C-C1C-NC	7.67	117.16	109.97
29	1s	305	CLA	CMD-C2D-C1D	7.67	138.23	124.71
29	1a	408	CLA	C2C-C1C-NC	7.67	117.15	109.97
29	1b	602	CLA	CMD-C2D-C1D	7.66	138.22	124.71
29	1n	604	CLA	C2B-C1B-NB	7.66	115.37	110.23
30	1g	605	CHL	C2C-C3C-C4C	-7.66	101.03	106.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	306	CLA	C2B-C1B-NB	7.65	115.36	110.23
29	1b	615	CLA	C2C-C1C-NC	7.65	117.14	109.97
29	1r	304	CLA	C2C-C1C-NC	7.65	117.14	109.97
29	1a	406	CLA	C2C-C1C-NC	7.65	117.14	109.97
29	1G	612	CLA	CMD-C2D-C1D	7.65	138.19	124.71
30	05	305	CHL	C2C-C3C-C4C	-7.65	101.04	106.49
29	1N	311	CLA	C2C-C1C-NC	7.64	117.13	109.97
29	1B	610	CLA	C2B-C1B-NB	7.64	115.36	110.23
29	1b	609	CLA	C2B-C1B-NB	7.64	115.36	110.23
29	1C	506	CLA	C2C-C1C-NC	7.64	117.13	109.97
29	02	614	CLA	C2C-C1C-NC	7.64	117.13	109.97
29	1S	314	CLA	CMD-C2D-C1D	7.63	138.16	124.71
29	1s	307	CLA	CMD-C2D-C1D	7.63	138.16	124.71
29	1b	603	CLA	CMD-C2D-C1D	7.62	138.15	124.71
30	09	305	CHL	CMD-C2D-C1D	7.62	138.15	124.71
30	1s	304	CHL	CMD-C2D-C1D	7.62	138.15	124.71
29	1C	511	CLA	C2C-C1C-NC	7.62	117.11	109.97
29	00	311	CLA	CMD-C2D-C1D	7.62	138.14	124.71
30	1s	308	CHL	C2C-C3C-C4C	-7.62	101.06	106.49
29	1g	612	CLA	CMD-C2D-C1D	7.62	138.13	124.71
29	1g	611	CLA	C2B-C1B-NB	7.61	115.34	110.23
29	05	301	CLA	C2C-C1C-NC	7.61	117.11	109.97
29	1b	604	CLA	CMD-C2D-C1D	7.61	138.13	124.71
30	1N	309	CHL	C2C-C3C-C4C	-7.61	101.07	106.49
29	02	608	CLA	CMD-C2D-C1D	7.61	138.12	124.71
29	1c	508	CLA	C2B-C1B-NB	7.60	115.33	110.23
29	01	307	CLA	C2C-C1C-NC	7.59	117.09	109.97
29	01	310	CLA	CMD-C2D-C1D	7.59	138.10	124.71
30	04	301	CHL	C2C-C3C-C4C	-7.59	101.08	106.49
29	08	308	CLA	CMD-C2D-C1D	7.59	138.09	124.71
29	00	309	CLA	CMD-C2D-C1D	7.59	138.09	124.71
29	05	310	CLA	CMD-C2D-C1D	7.58	138.08	124.71
29	01	311	CLA	CMD-C2D-C1D	7.58	138.07	124.71
29	1r	310	CLA	CMD-C2D-C1D	7.58	138.07	124.71
30	02	606	CHL	C2C-C3C-C4C	-7.58	101.09	106.49
30	09	307	CHL	C2C-C3C-C4C	-7.58	101.09	106.49
30	1s	310	CHL	C2C-C3C-C4C	-7.58	101.09	106.49
29	1S	311	CLA	CMD-C2D-C1D	7.58	138.06	124.71
29	03	310	CLA	C2C-C1C-NC	7.57	117.06	109.97
30	00	305	CHL	C2C-C3C-C4C	-7.57	101.09	106.49
29	09	310	CLA	CMD-C2D-C1D	7.56	138.04	124.71
29	1G	604	CLA	C2B-C1B-NB	7.56	115.30	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	603	CLA	C2C-C1C-NC	7.56	117.06	109.97
30	1n	606	CHL	CMD-C2D-C1D	7.55	138.02	124.71
29	1S	313	CLA	C2B-C1B-NB	7.55	115.29	110.23
29	00	318	CLA	C2B-C1B-NB	7.54	115.28	110.23
29	1B	608	CLA	CMD-C2D-C1D	7.53	137.99	124.71
29	1c	515	CLA	C2C-C1C-NC	7.53	117.03	109.97
29	1N	303	CLA	CMD-C2D-C1D	7.53	137.99	124.71
29	09	309	CLA	C2C-C1C-NC	7.53	117.03	109.97
29	1C	504	CLA	C2C-C1C-NC	7.52	117.02	109.97
29	1n	612	CLA	CMD-C2D-C1D	7.52	137.97	124.71
30	1r	307	CHL	C2C-C3C-C4C	-7.52	101.13	106.49
29	09	317	CLA	CMD-C2D-C1D	7.52	137.97	124.71
30	1S	307	CHL	C2C-C3C-C4C	-7.52	101.13	106.49
29	1b	610	CLA	CMD-C2D-C1D	7.51	137.95	124.71
29	1D	401	CLA	C2B-C1B-NB	7.50	115.26	110.23
29	1b	608	CLA	C2B-C1B-NB	7.50	115.26	110.23
30	04	301	CHL	CMD-C2D-C1D	7.49	137.92	124.71
29	01	301	CLA	C2C-C1C-NC	7.49	116.99	109.97
30	00	304	CHL	C2C-C3C-C4C	-7.48	101.16	106.49
29	1A	407	CLA	C2C-C1C-NC	7.47	116.97	109.97
30	03	311	CHL	C2C-C3C-C4C	-7.46	101.17	106.49
29	1B	602	CLA	C1D-ND-C4D	-7.46	101.04	106.33
29	05	311	CLA	C2C-C1C-NC	7.46	116.96	109.97
29	1C	512	CLA	C2C-C1C-NC	7.46	116.96	109.97
46	1R	316	XAT	C11-C10-C9	-7.45	116.67	127.31
29	1B	610	CLA	CMD-C2D-C1D	7.45	137.84	124.71
30	1g	607	CHL	CMD-C2D-C1D	7.45	137.84	124.71
31	1g	616	LUT	C15-C35-C34	7.45	138.72	123.47
29	1s	315	CLA	CMD-C2D-C1D	7.44	137.83	124.71
29	1R	308	CLA	C2C-C1C-NC	7.44	116.94	109.97
29	1n	613	CLA	C2C-C1C-NC	7.44	116.94	109.97
30	03	305	CHL	C2C-C3C-C4C	-7.44	101.19	106.49
46	1R	316	XAT	C15-C14-C13	-7.44	116.69	127.31
29	00	311	CLA	C2B-C1B-NB	7.44	115.22	110.23
29	1A	407	CLA	CMD-C2D-C1D	7.43	137.81	124.71
30	08	303	CHL	C2C-C3C-C4C	-7.43	101.19	106.49
30	1N	310	CHL	C2C-C3C-C4C	-7.43	101.19	106.49
30	1g	606	CHL	C2C-C3C-C4C	-7.43	101.19	106.49
29	07	301	CLA	CMD-C2D-C1D	7.42	137.79	124.71
29	05	311	CLA	C2B-C1B-NB	7.42	115.20	110.23
30	05	315	CHL	C2C-C3C-C4C	-7.41	101.20	106.49
29	00	318	CLA	CMD-C2D-C1D	7.40	137.76	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	03	310	CLA	CMD-C2D-C1D	7.40	137.75	124.71
29	1N	314	CLA	C3C-C4C-NC	7.40	118.86	110.57
29	00	301	CLA	CMD-C2D-C1D	7.39	137.74	124.71
30	06	603	CHL	C2C-C3C-C4C	-7.38	101.23	106.49
30	1G	606	CHL	C2C-C3C-C4C	-7.38	101.23	106.49
29	1b	614	CLA	C3C-C4C-NC	7.37	118.84	110.57
30	1g	608	CHL	C2C-C3C-C4C	-7.37	101.24	106.49
30	06	605	CHL	C2C-C3C-C4C	-7.36	101.24	106.49
30	06	601	CHL	C2C-C3C-C4C	-7.36	101.25	106.49
30	1G	605	CHL	C2C-C3C-C4C	-7.36	101.25	106.49
30	1r	313	CHL	C2C-C3C-C4C	-7.36	101.25	106.49
29	1b	607	CLA	C2C-C1C-NC	7.35	116.86	109.97
30	1N	306	CHL	C2C-C3C-C4C	-7.35	101.25	106.49
30	07	305	CHL	C2C-C3C-C4C	-7.35	101.25	106.49
29	1B	614	CLA	C3C-C4C-NC	7.35	118.81	110.57
29	1G	602	CLA	CMD-C2D-C1D	7.35	137.66	124.71
30	02	607	CHL	C2C-C3C-C4C	-7.35	101.25	106.49
29	1g	602	CLA	CMD-C2D-C1D	7.33	137.62	124.71
30	07	306	CHL	C2C-C3C-C4C	-7.32	101.27	106.49
29	1R	302	CLA	C2C-C1C-NC	7.32	116.83	109.97
30	02	603	CHL	C2C-C3C-C4C	-7.31	101.28	106.49
29	1B	613	CLA	C2B-C1B-NB	7.31	115.13	110.23
30	04	302	CHL	C2C-C3C-C4C	-7.31	101.28	106.49
30	06	604	CHL	C2C-C3C-C4C	-7.31	101.28	106.49
29	05	308	CLA	C2C-C1C-NC	7.30	116.81	109.97
30	07	304	CHL	C2C-C3C-C4C	-7.30	101.29	106.49
29	1b	605	CLA	C2B-C1B-NB	7.30	115.12	110.23
30	08	305	CHL	C2C-C3C-C4C	-7.29	101.29	106.49
29	09	303	CLA	C2B-C1B-NB	7.29	115.12	110.23
31	1G	616	LUT	C15-C35-C34	7.29	138.41	123.47
30	02	605	CHL	C2C-C3C-C4C	-7.28	101.30	106.49
29	00	309	CLA	C2C-C1C-NC	7.28	116.79	109.97
29	1B	609	CLA	CMD-C2D-C1D	7.27	137.53	124.71
30	08	302	CHL	C2C-C3C-C4C	-7.27	101.31	106.49
30	09	308	CHL	C2C-C3C-C4C	-7.26	101.31	106.49
29	1S	314	CLA	C2C-C1C-NC	7.26	116.78	109.97
30	00	307	CHL	C2C-C3C-C4C	-7.26	101.31	106.49
29	08	308	CLA	C2C-C1C-NC	7.26	116.77	109.97
30	1R	305	CHL	C2C-C3C-C4C	-7.26	101.31	106.49
29	1n	602	CLA	C2C-C1C-NC	7.25	116.77	109.97
30	1g	609	CHL	C2C-C3C-C4C	-7.25	101.32	106.49
29	1r	308	CLA	CMD-C2D-C1D	7.23	137.46	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1n	608	CHL	C2C-C3C-C4C	-7.23	101.33	106.49
30	1n	606	CHL	C2C-C3C-C4C	-7.23	101.34	106.49
30	1N	302	CHL	C2C-C3C-C4C	-7.23	101.34	106.49
29	1n	613	CLA	CMD-C2D-C1D	7.22	137.44	124.71
30	04	303	CHL	C2C-C3C-C4C	-7.22	101.34	106.49
30	1N	307	CHL	C2C-C3C-C4C	-7.22	101.34	106.49
29	1N	303	CLA	C2C-C1C-NC	7.21	116.73	109.97
30	02	604	CHL	C2C-C3C-C4C	-7.21	101.35	106.49
30	07	311	CHL	C2C-C3C-C4C	-7.20	101.35	106.49
29	1b	613	CLA	C2C-C1C-NC	7.20	116.72	109.97
29	1B	602	CLA	C2B-C1B-NB	7.19	115.06	110.23
30	04	305	CHL	C2C-C3C-C4C	-7.19	101.36	106.49
30	03	302	CHL	C2C-C3C-C4C	-7.19	101.36	106.49
30	09	304	CHL	C2C-C3C-C4C	-7.18	101.37	106.49
29	03	306	CLA	C2C-C1C-NC	7.18	116.70	109.97
29	1G	610	CLA	C2C-C1C-NC	7.18	116.70	109.97
30	02	601	CHL	C2C-C3C-C4C	-7.18	101.37	106.49
29	1c	504	CLA	C2B-C1B-NB	7.17	115.04	110.23
29	1b	610	CLA	C2B-C1B-NB	7.16	115.03	110.23
30	05	313	CHL	C2C-C3C-C4C	-7.16	101.38	106.49
29	1S	310	CLA	C2C-C1C-NC	7.16	116.68	109.97
29	1R	308	CLA	CMD-C2D-C1D	7.16	137.33	124.71
29	1b	612	CLA	CMD-C2D-C1D	7.16	137.33	124.71
29	1d	406	CLA	C2C-C1C-NC	7.16	116.68	109.97
29	1r	302	CLA	C2C-C1C-NC	7.16	116.67	109.97
30	07	303	CHL	C2C-C3C-C4C	-7.14	101.40	106.49
30	1R	313	CHL	C2C-C3C-C4C	-7.14	101.40	106.49
29	1N	311	CLA	CMD-C2D-C1D	7.14	137.29	124.71
29	1s	305	CLA	C2C-C1C-NC	7.14	116.66	109.97
30	1S	308	CHL	C2C-C3C-C4C	-7.12	101.41	106.49
30	03	303	CHL	C2C-C3C-C4C	-7.12	101.41	106.49
29	1G	602	CLA	C2C-C1C-NC	7.12	116.64	109.97
30	05	307	CHL	C2C-C3C-C4C	-7.11	101.42	106.49
29	1B	607	CLA	C2B-C1B-NB	7.09	114.99	110.23
30	06	606	CHL	C2C-C3C-C4C	-7.08	101.44	106.49
29	1R	309	CLA	CHD-C4C-C3C	-7.08	114.43	124.84
46	1r	316	XAT	O24-C25-C24	7.08	118.70	113.38
29	09	317	CLA	C2C-C1C-NC	7.06	116.59	109.97
29	1B	607	CLA	CMD-C2D-C1D	7.04	137.13	124.71
29	1g	611	CLA	CMD-C2D-C1D	7.04	137.13	124.71
29	1C	509	CLA	C2B-C1B-NB	7.04	114.95	110.23
46	1g	617	XAT	O4-C5-C18	7.04	123.49	115.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	613	CLA	CHD-C4C-C3C	-7.04	114.50	124.84
30	05	306	CHL	C2C-C3C-C4C	-7.03	101.48	106.49
30	1G	607	CHL	C2C-C3C-C4C	-7.03	101.48	106.49
46	1G	617	XAT	O4-C5-C18	7.02	123.47	115.06
29	1C	502	CLA	CMD-C2D-C1D	7.02	137.09	124.71
30	04	304	CHL	C2C-C3C-C4C	-7.02	101.49	106.49
46	1g	617	XAT	C11-C10-C9	-7.01	117.31	127.31
29	1B	611	CLA	C2B-C1B-NB	7.01	114.93	110.23
29	09	301	CLA	CMD-C2D-C1D	7.01	137.06	124.71
29	1b	614	CLA	CHD-C4C-C3C	-7.00	114.55	124.84
30	00	308	CHL	C2C-C3C-C4C	-6.99	101.50	106.49
30	1R	303	CHL	C2C-C3C-C4C	-6.99	101.51	106.49
30	01	302	CHL	C2C-C3C-C4C	-6.98	101.51	106.49
30	02	605	CHL	CMD-C2D-C1D	6.98	137.01	124.71
29	1a	405	CLA	C2C-C1C-NC	6.98	116.51	109.97
29	1c	514	CLA	CMD-C2D-C1D	6.96	136.98	124.71
29	1N	314	CLA	C1D-ND-C4D	-6.96	101.39	106.33
30	1n	609	CHL	C2C-C3C-C4C	-6.95	101.53	106.49
29	01	309	CLA	C2C-C1C-NC	6.95	116.48	109.97
29	1C	513	CLA	CMD-C2D-C1D	6.94	136.95	124.71
29	1c	512	CLA	C2B-C1B-NB	6.94	114.89	110.23
29	1B	614	CLA	CHD-C4C-C3C	-6.93	114.65	124.84
46	1g	617	XAT	C15-C14-C13	-6.93	117.42	127.31
29	1g	613	CLA	C3C-C4C-NC	6.93	118.34	110.57
35	1b	601	BCR	C15-C16-C17	6.92	137.66	123.47
29	07	302	CLA	CHD-C4C-C3C	-6.92	114.66	124.84
30	1g	601	CHL	CHD-C1D-ND	-6.92	118.09	124.45
29	1B	610	CLA	C3C-C4C-NC	6.92	118.33	110.57
29	1c	506	CLA	CMD-C2D-C1D	6.92	136.90	124.71
30	01	305	CHL	CMD-C2D-C1D	6.91	136.90	124.71
46	1R	316	XAT	C31-C30-C29	-6.91	117.45	127.31
29	1C	513	CLA	CHD-C4C-C3C	-6.91	114.68	124.84
29	1r	309	CLA	C2C-C1C-NC	6.89	116.43	109.97
30	03	304	CHL	C2C-C3C-C4C	-6.89	101.58	106.49
29	1C	502	CLA	C2B-C1B-NB	6.88	114.84	110.23
29	00	303	CLA	C2B-C1B-NB	6.87	114.84	110.23
30	1n	601	CHL	C2C-C3C-C4C	-6.87	101.59	106.49
30	1r	305	CHL	C2C-C3C-C4C	-6.87	101.59	106.49
46	1R	316	XAT	C38-C25-C26	-6.86	110.76	122.26
29	1D	404	CLA	C2B-C1B-NB	6.86	114.83	110.23
29	1a	408	CLA	CMD-C2D-C1D	6.83	136.75	124.71
33	1n	617	LHG	O7-C7-C8	6.83	126.22	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	616	CLA	C2B-C1B-NB	6.83	114.81	110.23
30	1s	309	CHL	C2C-C3C-C4C	-6.82	101.63	106.49
46	1G	619	XAT	O24-C25-C24	6.82	118.50	113.38
29	1C	511	CLA	C3C-C4C-NC	6.81	118.21	110.57
29	1C	513	CLA	C3C-C4C-NC	6.81	118.21	110.57
29	1g	602	CLA	C2C-C1C-NC	6.80	116.35	109.97
30	01	306	CHL	C2C-C3C-C4C	-6.80	101.64	106.49
29	1B	613	CLA	C3C-C4C-NC	6.80	118.20	110.57
29	1C	511	CLA	CHD-C4C-C3C	-6.80	114.85	124.84
29	1N	314	CLA	CHD-C4C-C3C	-6.79	114.86	124.84
29	1A	404	CLA	C2C-C1C-NC	6.77	116.32	109.97
29	1b	613	CLA	C3C-C4C-NC	6.76	118.15	110.57
29	1C	511	CLA	CMD-C2D-C1D	6.75	136.62	124.71
29	1B	608	CLA	C3C-C4C-NC	6.74	118.13	110.57
29	1S	305	CLA	CMD-C2D-C1D	6.73	136.58	124.71
29	1A	404	CLA	CHD-C4C-C3C	-6.73	114.95	124.84
30	05	304	CHL	C2B-C1B-NB	6.73	114.74	110.23
29	1S	305	CLA	CHD-C4C-C3C	-6.71	114.97	124.84
29	06	602	CLA	C3C-C4C-NC	6.71	118.10	110.57
46	1g	619	XAT	O24-C25-C38	6.70	123.08	115.06
29	1b	610	CLA	C3C-C4C-NC	6.69	118.08	110.57
29	1b	609	CLA	CMD-C2D-C1D	6.69	136.50	124.71
29	1g	613	CLA	CMD-C2D-C1D	6.67	136.47	124.71
29	1c	510	CLA	C3C-C4C-NC	6.67	118.05	110.57
29	1B	606	CLA	CMD-C2D-C1D	6.66	136.46	124.71
29	1B	611	CLA	CHD-C4C-C3C	-6.66	115.05	124.84
29	1b	603	CLA	C2B-C1B-NB	6.66	114.70	110.23
29	1A	404	CLA	C3C-C4C-NC	6.65	118.03	110.57
29	1b	612	CLA	C2B-C1B-NB	6.65	114.69	110.23
29	1c	512	CLA	C3C-C4C-NC	6.64	118.02	110.57
29	1b	613	CLA	CMD-C2D-C1D	6.64	136.41	124.71
29	09	301	CLA	CHD-C4C-C3C	-6.64	115.08	124.84
29	1a	405	CLA	C3C-C4C-NC	6.64	118.01	110.57
29	09	301	CLA	C3C-C4C-NC	6.63	118.00	110.57
29	1c	511	CLA	C3C-C4C-NC	6.62	118.00	110.57
29	1b	603	CLA	CHD-C4C-C3C	-6.61	115.12	124.84
29	1C	506	CLA	C3C-C4C-NC	6.60	117.97	110.57
29	1S	305	CLA	C3C-C4C-NC	6.60	117.97	110.57
46	1R	316	XAT	O24-C25-C38	6.59	122.96	115.06
29	1C	508	CLA	C3C-C4C-NC	6.58	117.96	110.57
29	00	301	CLA	C2C-C1C-NC	6.58	116.14	109.97
29	1b	604	CLA	C2B-C1B-NB	6.56	114.63	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	506	CLA	CHD-C4C-C3C	-6.56	115.20	124.84
29	1B	616	CLA	C3C-C4C-NC	6.55	117.92	110.57
46	1G	617	XAT	C11-C10-C9	-6.54	117.97	127.31
31	1R	315	LUT	C15-C35-C34	6.54	136.87	123.47
29	1N	314	CLA	CMD-C2D-C1D	6.52	136.20	124.71
29	1B	611	CLA	C3C-C4C-NC	6.51	117.88	110.57
46	1g	619	XAT	O4-C5-C18	6.50	122.85	115.06
29	1b	611	CLA	C3C-C4C-NC	6.50	117.86	110.57
30	1n	601	CHL	CHD-C1D-ND	-6.50	118.48	124.45
46	1g	617	XAT	C18-C5-C6	-6.50	111.37	122.26
46	1r	316	XAT	C31-C30-C29	-6.49	118.04	127.31
29	00	318	CLA	C3C-C4C-NC	6.48	117.84	110.57
29	05	302	CLA	C3C-C4C-NC	6.48	117.83	110.57
29	1C	507	CLA	CMD-C2D-C1D	6.48	136.13	124.71
29	1b	613	CLA	CHD-C4C-C3C	-6.47	115.33	124.84
29	00	311	CLA	C3C-C4C-NC	6.47	117.83	110.57
29	1g	611	CLA	C3C-C4C-NC	6.46	117.82	110.57
29	1b	603	CLA	C3C-C4C-NC	6.46	117.82	110.57
46	1G	619	XAT	O4-C5-C4	6.46	118.23	113.38
29	1B	614	CLA	CMD-C2D-C1D	6.45	136.08	124.71
29	1s	305	CLA	C3C-C4C-NC	6.44	117.80	110.57
29	1s	314	CLA	C3C-C4C-NC	6.44	117.79	110.57
29	02	612	CLA	CHD-C4C-C3C	-6.43	115.38	124.84
29	1g	612	CLA	C3C-C4C-NC	6.42	117.77	110.57
46	1G	617	XAT	C15-C14-C13	-6.42	118.15	127.31
29	1d	403	CLA	CHD-C4C-C3C	-6.41	115.41	124.84
30	1g	601	CHL	C2C-C3C-C4C	-6.40	101.92	106.49
29	1D	401	CLA	CHD-C4C-C3C	-6.40	115.43	124.84
29	1A	407	CLA	C3C-C4C-NC	6.40	117.75	110.57
29	1a	405	CLA	CHD-C4C-C3C	-6.40	115.43	124.84
29	09	317	CLA	C3C-C4C-NC	6.40	117.75	110.57
29	00	301	CLA	C3C-C4C-NC	6.39	117.74	110.57
29	1C	502	CLA	C3C-C4C-NC	6.39	117.74	110.57
29	1R	307	CLA	CHD-C4C-C3C	-6.39	115.45	124.84
29	1n	610	CLA	CHD-C1D-ND	-6.38	118.59	124.45
29	1g	613	CLA	CHD-C4C-C3C	-6.37	115.47	124.84
29	00	301	CLA	CHD-C4C-C3C	-6.37	115.48	124.84
29	1c	505	CLA	C3C-C4C-NC	6.35	117.69	110.57
29	09	301	CLA	C2C-C1C-NC	6.35	115.92	109.97
29	1B	610	CLA	CHD-C4C-C3C	-6.35	115.51	124.84
30	1N	302	CHL	CHD-C1D-ND	-6.35	118.62	124.45
30	1G	601	CHL	CHD-C1D-ND	-6.35	118.62	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	602	CLA	C3C-C4C-NC	6.34	117.69	110.57
29	1B	616	CLA	O2D-CGD-CBD	6.34	122.54	111.27
30	1G	607	CHL	CHD-C1D-ND	-6.34	118.63	124.45
30	1R	305	CHL	CHD-C1D-ND	-6.33	118.63	124.45
29	1a	408	CLA	C3C-C4C-NC	6.33	117.67	110.57
29	1c	512	CLA	CHD-C4C-C3C	-6.33	115.53	124.84
29	08	309	CLA	C3C-C4C-NC	6.33	117.67	110.57
46	1g	619	XAT	C31-C32-C33	-6.33	108.64	126.42
29	1c	504	CLA	C3C-C4C-NC	6.32	117.66	110.57
46	1R	316	XAT	C15-C35-C34	-6.30	110.56	123.47
29	1c	509	CLA	C3B-C2B-C1B	-6.30	99.55	107.16
29	1S	305	CLA	C2C-C1C-NC	6.30	115.88	109.97
29	03	306	CLA	CHD-C4C-C3C	-6.30	115.58	124.84
30	05	306	CHL	CHD-C1D-ND	-6.29	118.67	124.45
46	1G	617	XAT	C18-C5-C6	-6.29	111.72	122.26
29	01	311	CLA	C3C-C4C-NC	6.29	117.62	110.57
29	01	310	CLA	O2D-CGD-CBD	6.29	122.44	111.27
29	1G	611	CLA	C3C-C4C-NC	6.29	117.62	110.57
29	06	602	CLA	CHD-C4C-C3C	-6.29	115.60	124.84
29	1r	308	CLA	C3C-C4C-NC	6.28	117.62	110.57
30	1s	309	CHL	CHD-C1D-ND	-6.28	118.68	124.45
29	1C	503	CLA	C3C-C4C-NC	6.28	117.62	110.57
29	1n	612	CLA	C3C-C4C-NC	6.28	117.62	110.57
29	1b	611	CLA	O2D-CGD-CBD	6.28	122.43	111.27
30	1S	307	CHL	CHD-C1D-ND	-6.28	118.68	124.45
29	1g	602	CLA	C3C-C4C-NC	6.28	117.61	110.57
29	1S	311	CLA	C3C-C4C-NC	6.28	117.61	110.57
29	1C	509	CLA	C3C-C4C-NC	6.27	117.61	110.57
29	1s	305	CLA	CHD-C4C-C3C	-6.27	115.62	124.84
29	1g	602	CLA	CHD-C4C-C3C	-6.27	115.62	124.84
30	03	311	CHL	CHD-C1D-ND	-6.27	118.69	124.45
30	02	604	CHL	CHD-C1D-ND	-6.27	118.70	124.45
29	01	308	CLA	O2D-CGD-CBD	6.26	122.39	111.27
29	09	311	CLA	C3C-C4C-NC	6.26	117.59	110.57
29	05	310	CLA	C3C-C4C-NC	6.26	117.59	110.57
29	09	317	CLA	CHD-C4C-C3C	-6.25	115.65	124.84
29	1N	311	CLA	C3C-C4C-NC	6.25	117.58	110.57
29	05	311	CLA	C3C-C4C-NC	6.24	117.57	110.57
29	00	310	CLA	C3C-C4C-NC	6.24	117.57	110.57
29	1n	611	CLA	C3C-C4C-NC	6.24	117.57	110.57
29	1G	614	CLA	C3C-C4C-NC	6.23	117.56	110.57
29	1c	513	CLA	C3C-C4C-NC	6.23	117.56	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	310	CLA	C3C-C4C-NC	6.23	117.56	110.57
29	02	608	CLA	C3C-C4C-NC	6.22	117.55	110.57
29	03	312	CLA	C3C-C4C-NC	6.21	117.54	110.57
29	1C	511	CLA	O2D-CGD-CBD	6.21	122.31	111.27
29	1S	312	CLA	C3C-C4C-NC	6.21	117.54	110.57
30	00	304	CHL	CHD-C1D-ND	-6.21	118.75	124.45
29	1C	510	CLA	C3C-C4C-NC	6.20	117.53	110.57
29	1N	303	CLA	C3C-C4C-NC	6.20	117.52	110.57
29	1a	408	CLA	CHD-C4C-C3C	-6.19	115.74	124.84
30	1G	601	CHL	C2C-C3C-C4C	-6.18	102.08	106.49
29	1G	602	CLA	CHD-C4C-C3C	-6.18	115.76	124.84
30	1N	306	CHL	CHD-C1D-ND	-6.17	118.78	124.45
30	00	308	CHL	CHD-C1D-ND	-6.17	118.78	124.45
29	1b	616	CLA	C3C-C4C-NC	6.16	117.48	110.57
29	08	312	CLA	O2D-CGD-CBD	6.16	122.22	111.27
30	04	302	CHL	CHD-C1D-ND	-6.16	118.79	124.45
30	04	304	CHL	O2D-CGD-CBD	6.16	122.22	111.27
29	06	611	CLA	C3C-C4C-NC	6.16	117.48	110.57
30	06	603	CHL	CHD-C1D-ND	-6.16	118.79	124.45
29	1b	610	CLA	CHD-C4C-C3C	-6.16	115.79	124.84
29	1r	304	CLA	C3C-C4C-NC	6.16	117.48	110.57
29	1A	407	CLA	CHD-C4C-C3C	-6.16	115.79	124.84
29	02	602	CLA	C3C-C4C-NC	6.15	117.47	110.57
29	03	307	CLA	C3C-C4C-NC	6.15	117.47	110.57
29	1r	312	CLA	C3C-C4C-NC	6.15	117.47	110.57
30	04	305	CHL	CHD-C1D-ND	-6.14	118.81	124.45
29	1b	612	CLA	C3C-C4C-NC	6.14	117.45	110.57
46	1r	316	XAT	C15-C35-C34	-6.14	110.90	123.47
30	01	306	CHL	CHD-C1D-ND	-6.14	118.81	124.45
46	1r	316	XAT	C7-C8-C9	-6.14	116.01	125.53
29	00	311	CLA	CHD-C4C-C3C	-6.13	115.83	124.84
29	1b	609	CLA	C3C-C4C-NC	6.13	117.45	110.57
29	1c	514	CLA	CHD-C4C-C3C	-6.13	115.83	124.84
46	1g	619	XAT	C30-C31-C32	6.13	142.34	123.22
30	08	302	CHL	CHD-C1D-ND	-6.13	118.82	124.45
30	1n	609	CHL	CHD-C1D-ND	-6.13	118.82	124.45
31	05	314	LUT	C8-C9-C10	6.13	128.34	118.94
29	00	318	CLA	CHD-C4C-C3C	-6.12	115.84	124.84
29	1R	307	CLA	C3C-C4C-NC	6.12	117.44	110.57
29	1B	606	CLA	C3C-C4C-NC	6.11	117.42	110.57
29	09	302	CLA	CHD-C4C-C3C	-6.11	115.86	124.84
29	02	611	CLA	C3C-C4C-NC	6.10	117.42	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	06	605	CHL	CHD-C1D-ND	-6.10	118.85	124.45
29	1b	616	CLA	CHD-C4C-C3C	-6.10	115.87	124.84
30	1n	608	CHL	CHD-C1D-ND	-6.10	118.85	124.45
29	1C	503	CLA	CHD-C4C-C3C	-6.10	115.88	124.84
29	1r	311	CLA	C3C-C4C-NC	6.09	117.41	110.57
30	02	607	CHL	CHD-C1D-ND	-6.09	118.86	124.45
29	01	310	CLA	C3C-C4C-NC	6.09	117.40	110.57
30	1S	304	CHL	CHD-C1D-ND	-6.09	118.86	124.45
30	1N	310	CHL	CHD-C1D-ND	-6.08	118.86	124.45
29	1s	307	CLA	C3C-C4C-NC	6.08	117.39	110.57
30	1G	605	CHL	CHD-C1D-ND	-6.08	118.86	124.45
29	1c	510	CLA	CHD-C4C-C3C	-6.08	115.90	124.84
29	07	301	CLA	C3B-C2B-C1B	-6.08	99.82	107.16
30	1N	309	CHL	CHD-C1D-ND	-6.07	118.87	124.45
29	04	312	CLA	C3C-C4C-NC	6.07	117.38	110.57
29	1s	314	CLA	CHD-C4C-C3C	-6.07	115.92	124.84
29	05	302	CLA	CHD-C4C-C3C	-6.07	115.92	124.84
30	07	306	CHL	CHD-C1D-ND	-6.06	118.88	124.45
29	1N	311	CLA	CHD-C4C-C3C	-6.06	115.93	124.84
30	06	604	CHL	CHD-C1D-ND	-6.06	118.89	124.45
29	09	310	CLA	C3C-C4C-NC	6.05	117.36	110.57
29	1B	607	CLA	C3C-C4C-NC	6.05	117.36	110.57
29	1C	505	CLA	C3C-C4C-NC	6.05	117.36	110.57
30	1N	308	CHL	CHD-C1D-ND	-6.05	118.89	124.45
29	07	312	CLA	C3C-C4C-NC	6.05	117.36	110.57
31	1g	615	LUT	C15-C35-C34	6.05	135.87	123.47
29	03	306	CLA	C3C-C4C-NC	6.05	117.36	110.57
29	05	309	CLA	C3C-C4C-NC	6.05	117.35	110.57
29	1B	607	CLA	O2D-CGD-CBD	6.05	122.01	111.27
29	08	310	CLA	C3C-C4C-NC	6.05	117.35	110.57
30	1r	305	CHL	CHD-C1D-ND	-6.05	118.90	124.45
30	01	302	CHL	CHD-C1D-ND	-6.04	118.90	124.45
30	02	603	CHL	CHD-C1D-ND	-6.04	118.90	124.45
30	05	307	CHL	CHD-C1D-ND	-6.04	118.90	124.45
29	1s	315	CLA	C3C-C4C-NC	6.04	117.35	110.57
29	1B	602	CLA	C3C-C4C-NC	6.04	117.34	110.57
29	1R	312	CLA	C3C-C4C-NC	6.04	117.34	110.57
29	1C	509	CLA	CHD-C4C-C3C	-6.04	115.97	124.84
29	1d	407	CLA	C3C-C4C-NC	6.04	117.34	110.57
29	1r	314	CLA	C3C-C4C-NC	6.04	117.34	110.57
30	1s	304	CHL	CHD-C1D-ND	-6.03	118.91	124.45
29	03	301	CLA	C3C-C4C-NC	6.03	117.34	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1R	313	CHL	CHD-C1D-ND	-6.03	118.91	124.45
29	1b	605	CLA	C3C-C4C-NC	6.03	117.34	110.57
29	1r	303	CLA	C3C-C4C-NC	6.03	117.34	110.57
29	08	306	CLA	C3C-C4C-NC	6.03	117.33	110.57
29	02	609	CLA	C3C-C4C-NC	6.03	117.33	110.57
30	1G	606	CHL	CHD-C1D-ND	-6.03	118.92	124.45
29	09	309	CLA	C3C-C4C-NC	6.03	117.33	110.57
29	04	311	CLA	C3C-C4C-NC	6.02	117.33	110.57
29	1N	313	CLA	C3C-C4C-NC	6.02	117.32	110.57
30	06	601	CHL	CHD-C1D-ND	-6.02	118.92	124.45
29	1G	613	CLA	C3C-C4C-NC	6.02	117.32	110.57
29	1S	316	CLA	C3C-C4C-NC	6.02	117.32	110.57
29	1n	611	CLA	O2D-CGD-CBD	6.01	121.95	111.27
29	1B	612	CLA	C3C-C4C-NC	6.01	117.31	110.57
29	1B	615	CLA	C3C-C4C-NC	6.01	117.31	110.57
29	06	607	CLA	C3C-C4C-NC	6.01	117.31	110.57
29	1N	314	CLA	C4A-NA-C1A	6.01	109.41	106.71
29	1C	508	CLA	C4A-NA-C1A	6.01	109.41	106.71
29	1C	506	CLA	C3B-C2B-C1B	-6.01	99.91	107.16
30	02	601	CHL	CHD-C1D-ND	-6.01	118.93	124.45
29	1b	604	CLA	C3C-C4C-NC	6.01	117.31	110.57
46	1g	619	XAT	C18-C5-C6	-6.00	112.20	122.26
30	1g	606	CHL	CHD-C1D-ND	-6.00	118.94	124.45
29	07	308	CLA	C3C-C4C-NC	6.00	117.30	110.57
29	1D	404	CLA	C3C-C4C-NC	6.00	117.30	110.57
29	08	307	CLA	C3C-C4C-NC	6.00	117.30	110.57
31	01	314	LUT	C7-C8-C9	6.00	135.29	126.23
29	07	307	CLA	C3C-C4C-NC	5.99	117.29	110.57
30	02	606	CHL	CHD-C1D-ND	-5.99	118.94	124.45
29	04	308	CLA	C3C-C4C-NC	5.99	117.29	110.57
29	1b	612	CLA	CHD-C4C-C3C	-5.99	116.03	124.84
29	1R	307	CLA	C2C-C1C-NC	5.99	115.58	109.97
30	03	304	CHL	CHD-C1D-ND	-5.99	118.95	124.45
29	06	610	CLA	C3C-C4C-NC	5.99	117.29	110.57
30	1g	609	CHL	CHD-C1D-ND	-5.99	118.95	124.45
29	1g	611	CLA	CHD-C4C-C3C	-5.99	116.04	124.84
30	04	304	CHL	CHD-C1D-ND	-5.99	118.95	124.45
29	1G	610	CLA	CHD-C4C-C3C	-5.99	116.04	124.84
30	09	306	CHL	CHD-C1D-ND	-5.98	118.95	124.45
29	07	301	CLA	C3C-C4C-NC	5.98	117.28	110.57
30	1R	303	CHL	CHD-C1D-ND	-5.98	118.96	124.45
30	05	304	CHL	C2C-C3C-C4C	-5.97	102.23	106.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	07	304	CHL	CHD-C1D-ND	-5.97	118.97	124.45
30	08	305	CHL	CHD-C1D-ND	-5.97	118.97	124.45
29	01	312	CLA	C3C-C4C-NC	5.97	117.26	110.57
30	1r	313	CHL	CHD-C1D-ND	-5.97	118.97	124.45
46	1G	619	XAT	C31-C30-C29	-5.97	118.80	127.31
30	05	313	CHL	CHD-C1D-ND	-5.97	118.97	124.45
29	1c	505	CLA	CHD-C4C-C3C	-5.96	116.07	124.84
29	1S	306	CLA	C3C-C4C-NC	5.96	117.26	110.57
29	1B	608	CLA	CHD-C4C-C3C	-5.96	116.08	124.84
30	1G	608	CHL	CHD-C1D-ND	-5.96	118.98	124.45
29	06	609	CLA	C3C-C4C-NC	5.96	117.25	110.57
29	1r	302	CLA	C3C-C4C-NC	5.96	117.25	110.57
30	00	307	CHL	CHD-C1D-ND	-5.96	118.98	124.45
46	1g	619	XAT	C6-C7-C8	-5.94	113.42	125.99
29	1B	603	CLA	C3C-C4C-NC	5.94	117.24	110.57
30	1s	310	CHL	CHD-C1D-ND	-5.94	118.99	124.45
30	03	302	CHL	CHD-C1D-ND	-5.94	118.99	124.45
29	05	301	CLA	C3C-C4C-NC	5.94	117.23	110.57
29	06	608	CLA	C3C-C4C-NC	5.94	117.23	110.57
29	1b	613	CLA	C2B-C1B-NB	5.94	114.21	110.23
30	1R	304	CHL	CHD-C1D-ND	-5.94	119.00	124.45
29	1d	406	CLA	C3C-C4C-NC	5.94	117.23	110.57
29	1s	315	CLA	CHD-C4C-C3C	-5.93	116.12	124.84
30	09	308	CHL	CHD-C1D-ND	-5.93	119.00	124.45
29	08	308	CLA	C3C-C4C-NC	5.93	117.22	110.57
30	09	304	CHL	CHD-C1D-ND	-5.93	119.00	124.45
30	05	315	CHL	CHD-C1D-ND	-5.93	119.01	124.45
29	08	311	CLA	C3C-C4C-NC	5.92	117.21	110.57
29	01	308	CLA	C3C-C4C-NC	5.92	117.21	110.57
30	07	305	CHL	CHD-C1D-ND	-5.92	119.02	124.45
29	1R	308	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	00	310	CLA	CHD-C4C-C3C	-5.91	116.15	124.84
29	01	301	CLA	C3C-C4C-NC	5.91	117.20	110.57
30	09	307	CHL	CHD-C1D-ND	-5.91	119.02	124.45
29	1C	507	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	00	302	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	02	610	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	09	303	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	03	309	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	1c	514	CLA	C3C-C4C-NC	5.91	117.20	110.57
29	1N	303	CLA	CHD-C4C-C3C	-5.91	116.16	124.84
29	1C	505	CLA	O2D-CGD-CBD	5.90	121.76	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	313	CLA	C3C-C4C-NC	5.90	117.19	110.57
30	07	311	CHL	CHD-C1D-ND	-5.90	119.03	124.45
29	1g	603	CLA	C3C-C4C-NC	5.90	117.18	110.57
29	09	309	CLA	CHD-C4C-C3C	-5.90	116.17	124.84
29	1c	510	CLA	O2D-CGD-CBD	5.90	121.74	111.27
29	1R	310	CLA	C3C-C4C-NC	5.89	117.18	110.57
29	1c	509	CLA	C3C-C4C-NC	5.89	117.18	110.57
29	1D	405	CLA	C3C-C4C-NC	5.89	117.18	110.57
29	1C	502	CLA	CHD-C4C-C3C	-5.89	116.18	124.84
30	1r	307	CHL	CHD-C1D-ND	-5.89	119.04	124.45
29	1B	616	CLA	CHD-C4C-C3C	-5.89	116.18	124.84
29	1G	610	CLA	C3C-C4C-NC	5.89	117.17	110.57
29	1G	612	CLA	C3C-C4C-NC	5.89	117.17	110.57
29	1r	304	CLA	CHD-C4C-C3C	-5.88	116.19	124.84
29	01	308	CLA	CHD-C4C-C3C	-5.88	116.19	124.84
29	01	311	CLA	CHD-C4C-C3C	-5.88	116.19	124.84
30	1G	609	CHL	CHD-C1D-ND	-5.88	119.05	124.45
29	1R	311	CLA	C3C-C4C-NC	5.88	117.17	110.57
29	08	306	CLA	CHD-C4C-C3C	-5.88	116.20	124.84
29	1B	615	CLA	CHD-C4C-C3C	-5.88	116.20	124.84
29	1D	401	CLA	C3C-C4C-NC	5.88	117.16	110.57
30	07	303	CHL	CHD-C1D-ND	-5.87	119.06	124.45
29	1C	510	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
29	1s	311	CLA	C3C-C4C-NC	5.87	117.16	110.57
29	1n	612	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
30	1S	309	CHL	CHD-C1D-ND	-5.87	119.06	124.45
29	01	313	CLA	C3C-C4C-NC	5.87	117.15	110.57
29	1g	603	CLA	CHD-C4C-C3C	-5.86	116.22	124.84
30	1n	605	CHL	CHD-C1D-ND	-5.86	119.07	124.45
30	01	305	CHL	C3C-C4C-NC	5.86	117.14	110.57
29	04	308	CLA	CHD-C4C-C3C	-5.86	116.23	124.84
29	1N	315	CLA	C3C-C4C-NC	5.86	117.14	110.57
29	1D	402	CLA	CHD-C4C-C3C	-5.86	116.23	124.84
29	1c	513	CLA	CHD-C4C-C3C	-5.86	116.23	124.84
29	02	608	CLA	CHD-C4C-C3C	-5.85	116.23	124.84
29	09	302	CLA	C3C-C4C-NC	5.85	117.14	110.57
46	1r	316	XAT	C38-C25-C26	-5.85	112.45	122.26
29	1n	603	CLA	C3C-C4C-NC	5.85	117.13	110.57
30	03	304	CHL	C3B-C2B-C1B	-5.85	100.10	107.16
30	1g	605	CHL	CHD-C1D-ND	-5.85	119.08	124.45
29	07	310	CLA	C3C-C4C-NC	5.85	117.13	110.57
29	1a	406	CLA	CHD-C4C-C3C	-5.84	116.25	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	01	306	CHL	C3B-C2B-C1B	-5.84	100.12	107.16
30	00	306	CHL	C3B-C2B-C1B	-5.84	100.12	107.16
29	1n	613	CLA	CHD-C4C-C3C	-5.84	116.26	124.84
29	1b	606	CLA	CHD-C4C-C3C	-5.83	116.26	124.84
29	1s	306	CLA	C3C-C4C-NC	5.83	117.11	110.57
30	06	606	CHL	CHD-C1D-ND	-5.83	119.10	124.45
30	08	301	CHL	CHD-C1D-ND	-5.83	119.10	124.45
29	1c	504	CLA	CHD-C4C-C3C	-5.83	116.28	124.84
29	02	613	CLA	C3C-C4C-NC	5.83	117.10	110.57
46	1R	316	XAT	C7-C8-C9	-5.82	116.50	125.53
29	1r	302	CLA	CHD-C4C-C3C	-5.82	116.28	124.84
29	1a	406	CLA	C3C-C4C-NC	5.82	117.10	110.57
30	1g	608	CHL	CHD-C1D-ND	-5.82	119.11	124.45
29	09	312	CLA	C3C-C4C-NC	5.82	117.09	110.57
29	1N	312	CLA	C3C-C4C-NC	5.81	117.09	110.57
46	1G	619	XAT	C18-C5-C6	-5.81	112.52	122.26
29	04	310	CLA	C3C-C4C-NC	5.81	117.09	110.57
29	1S	315	CLA	C3C-C4C-NC	5.81	117.09	110.57
29	1S	313	CLA	CHD-C4C-C3C	-5.81	116.30	124.84
30	03	303	CHL	CHD-C1D-ND	-5.81	119.11	124.45
29	1c	510	CLA	CMD-C2D-C1D	5.81	134.95	124.71
29	1s	316	CLA	C3B-C2B-C1B	-5.81	100.15	107.16
29	1G	604	CLA	C3C-C4C-NC	5.81	117.08	110.57
29	1S	313	CLA	C3C-C4C-NC	5.80	117.08	110.57
31	1r	315	LUT	C15-C35-C34	5.80	135.36	123.47
29	01	307	CLA	C3B-C2B-C1B	-5.80	100.16	107.16
29	1g	612	CLA	O2D-CGD-CBD	5.80	121.57	111.27
30	05	304	CHL	CHD-C1D-ND	-5.79	119.13	124.45
29	1n	613	CLA	C3C-C4C-NC	5.79	117.07	110.57
29	1r	310	CLA	CHD-C4C-C3C	-5.79	116.33	124.84
29	1B	606	CLA	CHD-C4C-C3C	-5.79	116.33	124.84
29	1g	610	CLA	C3C-C4C-NC	5.79	117.06	110.57
29	1C	508	CLA	CHD-C4C-C3C	-5.79	116.33	124.84
35	1j	101	BCR	C16-C15-C14	5.79	135.33	123.47
30	03	305	CHL	CHD-C1D-ND	-5.79	119.14	124.45
29	00	303	CLA	C3C-C4C-NC	5.79	117.06	110.57
29	03	301	CLA	CHD-C4C-C3C	-5.78	116.34	124.84
29	1R	302	CLA	CHD-C4C-C3C	-5.78	116.34	124.84
29	1B	612	CLA	CHD-C4C-C3C	-5.78	116.34	124.84
29	1S	316	CLA	CHD-C4C-C3C	-5.78	116.34	124.84
29	05	310	CLA	CHD-C4C-C3C	-5.78	116.35	124.84
29	00	309	CLA	C3C-C4C-NC	5.77	117.05	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	311	CLA	CHD-C4C-C3C	-5.77	116.36	124.84
29	1r	309	CLA	C3C-C4C-NC	5.77	117.04	110.57
29	1B	614	CLA	C2B-C1B-NB	5.77	114.10	110.23
29	1g	610	CLA	CHD-C4C-C3C	-5.77	116.37	124.84
29	08	308	CLA	CHD-C4C-C3C	-5.76	116.37	124.84
29	04	311	CLA	CHD-C4C-C3C	-5.76	116.37	124.84
29	1R	302	CLA	C3C-C4C-NC	5.76	117.03	110.57
30	1S	304	CHL	C3B-C2B-C1B	-5.76	100.21	107.16
30	1S	308	CHL	CHD-C1D-ND	-5.76	119.17	124.45
30	08	304	CHL	CHD-C1D-ND	-5.75	119.17	124.45
29	1S	310	CLA	C3C-C4C-NC	5.75	117.02	110.57
30	09	306	CHL	C3B-C2B-C1B	-5.75	100.22	107.16
30	1r	306	CHL	C3C-C4C-NC	5.75	117.02	110.57
46	1g	619	XAT	C15-C35-C34	5.75	135.25	123.47
30	05	305	CHL	CHD-C1D-ND	-5.74	119.17	124.45
29	1S	312	CLA	CHD-C4C-C3C	-5.74	116.40	124.84
29	04	306	CLA	C3C-C4C-NC	5.74	117.01	110.57
29	06	607	CLA	CHD-C4C-C3C	-5.74	116.41	124.84
29	1N	304	CLA	C3C-C4C-NC	5.74	117.00	110.57
29	1n	614	CLA	C3C-C4C-NC	5.74	117.00	110.57
29	1d	406	CLA	CHD-C4C-C3C	-5.73	116.41	124.84
29	1r	303	CLA	CHD-C4C-C3C	-5.73	116.42	124.84
29	1S	311	CLA	O2D-CGD-CBD	5.73	121.45	111.27
29	1B	605	CLA	C3C-C4C-NC	5.73	117.00	110.57
29	02	614	CLA	C3C-C4C-NC	5.73	117.00	110.57
46	1G	619	XAT	C38-C25-C26	-5.73	112.66	122.26
29	1G	603	CLA	C3C-C4C-NC	5.73	116.99	110.57
29	1B	601	CLA	CHD-C4C-C3C	-5.73	116.42	124.84
29	05	312	CLA	C3B-C2B-C1B	-5.72	100.25	107.16
29	1b	614	CLA	C2B-C1B-NB	5.72	114.07	110.23
29	07	312	CLA	CHD-C4C-C3C	-5.72	116.43	124.84
30	01	304	CHL	CHD-C1D-ND	-5.72	119.20	124.45
29	1s	312	CLA	C3C-C4C-NC	5.71	116.98	110.57
29	1c	507	CLA	C3C-C4C-NC	5.71	116.97	110.57
29	1g	612	CLA	CHD-C4C-C3C	-5.70	116.45	124.84
29	1c	503	CLA	C3C-C4C-NC	5.70	116.97	110.57
30	08	303	CHL	CHD-C1D-ND	-5.70	119.21	124.45
29	01	301	CLA	C3B-C2B-C1B	-5.70	100.28	107.16
29	1n	611	CLA	CHD-C4C-C3C	-5.70	116.47	124.84
29	1g	614	CLA	C3C-C4C-NC	5.69	116.96	110.57
29	00	302	CLA	CHD-C4C-C3C	-5.69	116.47	124.84
30	1n	607	CHL	CHD-C1D-ND	-5.69	119.22	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	02	613	CLA	CHD-C4C-C3C	-5.69	116.48	124.84
29	04	312	CLA	CHD-C4C-C3C	-5.69	116.48	124.84
29	04	307	CLA	C3C-C4C-NC	5.69	116.95	110.57
29	1b	602	CLA	C3C-C4C-NC	5.68	116.95	110.57
29	1C	504	CLA	C3C-C4C-NC	5.68	116.94	110.57
29	03	312	CLA	CHD-C4C-C3C	-5.68	116.49	124.84
30	04	303	CHL	CHD-C1D-ND	-5.68	119.23	124.45
29	1B	612	CLA	O2D-CGD-CBD	5.68	121.36	111.27
29	1S	314	CLA	C3B-C2B-C1B	-5.68	100.31	107.16
29	02	612	CLA	C3C-C4C-NC	5.68	116.94	110.57
29	1B	603	CLA	CHD-C4C-C3C	-5.68	116.50	124.84
29	1d	407	CLA	CHD-C4C-C3C	-5.68	116.50	124.84
30	01	303	CHL	C3C-C4C-NC	5.67	116.93	110.57
29	1s	307	CLA	CHD-C4C-C3C	-5.66	116.51	124.84
29	02	611	CLA	CHD-C4C-C3C	-5.66	116.52	124.84
29	01	309	CLA	C3C-C4C-NC	5.66	116.92	110.57
29	1b	611	CLA	CHD-C4C-C3C	-5.66	116.52	124.84
29	1d	403	CLA	C1C-C2C-C3C	-5.65	101.02	106.96
29	1b	603	CLA	O2D-CGD-CBD	5.65	121.30	111.27
29	1R	314	CLA	C3C-C4C-NC	5.64	116.90	110.57
29	03	307	CLA	CHD-C4C-C3C	-5.64	116.55	124.84
30	03	311	CHL	C3B-C2B-C1B	-5.64	100.35	107.16
29	05	312	CLA	CHD-C1D-ND	-5.64	119.27	124.45
29	1r	310	CLA	O2D-CGD-CBD	5.63	121.28	111.27
29	1G	614	CLA	CHD-C4C-C3C	-5.63	116.56	124.84
29	1c	506	CLA	C3C-C4C-NC	5.63	116.89	110.57
29	1b	614	CLA	CHC-C4B-NB	-5.63	118.30	124.26
29	05	309	CLA	CHD-C4C-C3C	-5.63	116.56	124.84
29	06	610	CLA	CHD-C4C-C3C	-5.63	116.56	124.84
29	09	310	CLA	O2D-CGD-CBD	5.63	121.27	111.27
29	1N	305	CLA	O2D-CGD-CBD	5.63	121.27	111.27
29	1D	405	CLA	CHD-C4C-C3C	-5.62	116.57	124.84
29	1N	313	CLA	CHD-C4C-C3C	-5.62	116.58	124.84
29	1D	402	CLA	C3C-C4C-NC	5.62	116.88	110.57
30	1R	304	CHL	C3B-C2B-C1B	-5.62	100.38	107.16
29	08	308	CLA	C3B-C2B-C1B	-5.62	100.38	107.16
30	1n	607	CHL	C3B-C2B-C1B	-5.62	100.38	107.16
29	1G	603	CLA	CHD-C4C-C3C	-5.61	116.59	124.84
29	1b	609	CLA	CHD-C4C-C3C	-5.61	116.59	124.84
30	05	305	CHL	C3C-C4C-NC	5.61	116.87	110.57
29	01	310	CLA	CHD-C4C-C3C	-5.61	116.59	124.84
29	1g	604	CLA	C3C-C4C-NC	5.61	116.86	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	309	CLA	CHD-C4C-C3C	-5.60	116.60	124.84
29	1r	311	CLA	CHD-C4C-C3C	-5.60	116.60	124.84
29	1b	605	CLA	O2D-CGD-CBD	5.60	121.22	111.27
29	1b	608	CLA	C3C-C4C-NC	5.60	116.85	110.57
29	1R	311	CLA	CHD-C4C-C3C	-5.60	116.61	124.84
30	1n	605	CHL	C3B-C2B-C1B	-5.60	100.40	107.16
29	1c	515	CLA	C3C-C4C-NC	5.60	116.85	110.57
29	07	301	CLA	CHD-C4C-C3C	-5.60	116.61	124.84
29	1b	617	CLA	C3C-C4C-NC	5.60	116.85	110.57
30	00	305	CHL	CHD-C1D-ND	-5.60	119.31	124.45
29	1S	314	CLA	C3C-C4C-NC	5.60	116.85	110.57
29	1S	314	CLA	O2D-CGD-CBD	5.59	121.21	111.27
29	05	301	CLA	CHD-C4C-C3C	-5.59	116.62	124.84
29	1N	305	CLA	C3C-C4C-NC	5.59	116.84	110.57
29	1S	305	CLA	C3B-C2B-C1B	-5.59	100.42	107.16
29	09	317	CLA	CAC-C3C-C4C	5.59	132.06	124.81
30	1N	308	CHL	C3B-C2B-C1B	-5.59	100.42	107.16
29	1c	511	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
30	1g	607	CHL	C3C-C4C-NC	5.58	116.83	110.57
29	1N	304	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
29	1C	501	CLA	C3B-C2B-C1B	-5.58	100.43	107.16
29	1c	503	CLA	CHD-C4C-C3C	-5.58	116.64	124.84
29	05	303	CLA	C3C-C4C-NC	5.58	116.83	110.57
29	1C	512	CLA	C3C-C4C-NC	5.58	116.83	110.57
29	01	307	CLA	CHD-C4C-C3C	-5.57	116.65	124.84
29	1B	601	CLA	O2D-CGD-CBD	5.57	121.17	111.27
29	07	309	CLA	C3C-C4C-NC	5.57	116.82	110.57
29	03	308	CLA	C3C-C4C-NC	5.57	116.82	110.57
30	1r	306	CHL	CHD-C1D-ND	-5.57	119.33	124.45
29	1c	508	CLA	C3C-C4C-NC	5.57	116.82	110.57
29	1n	604	CLA	C3C-C4C-NC	5.57	116.82	110.57
29	1G	611	CLA	CHD-C4C-C3C	-5.57	116.66	124.84
29	1s	305	CLA	C3B-C2B-C1B	-5.57	100.44	107.16
29	1n	602	CLA	C3C-C4C-NC	5.57	116.81	110.57
29	1B	605	CLA	CHD-C4C-C3C	-5.56	116.66	124.84
29	1b	615	CLA	C3C-C4C-NC	5.56	116.81	110.57
29	09	301	CLA	C3B-C2B-C1B	-5.56	100.45	107.16
29	1n	604	CLA	O2D-CGD-CBD	5.56	121.15	111.27
30	1s	304	CHL	C3B-C2B-C1B	-5.56	100.45	107.16
29	1S	306	CLA	CHD-C4C-C3C	-5.56	116.67	124.84
29	08	310	CLA	CHD-C4C-C3C	-5.56	116.67	124.84
29	1R	308	CLA	CHD-C4C-C3C	-5.56	116.67	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	604	CLA	C3C-C4C-NC	5.56	116.80	110.57
30	09	307	CHL	C3C-C4C-NC	5.56	116.80	110.57
29	01	307	CLA	C3C-C4C-NC	5.56	116.80	110.57
30	1r	307	CHL	C3B-C2B-C1B	-5.55	100.46	107.16
29	05	308	CLA	C3C-C4C-NC	5.55	116.80	110.57
29	02	609	CLA	CHD-C4C-C3C	-5.55	116.68	124.84
31	09	313	LUT	C15-C35-C34	5.55	134.84	123.47
29	1s	313	CLA	CHD-C4C-C3C	-5.55	116.69	124.84
29	1r	314	CLA	O2D-CGD-CBD	5.54	121.12	111.27
29	09	311	CLA	CHD-C4C-C3C	-5.54	116.69	124.84
30	1N	309	CHL	C3B-C2B-C1B	-5.54	100.47	107.16
29	08	307	CLA	CHD-C4C-C3C	-5.54	116.70	124.84
29	03	310	CLA	C3C-C4C-NC	5.53	116.78	110.57
29	01	309	CLA	CHD-C4C-C3C	-5.53	116.71	124.84
30	00	307	CHL	C3B-C2B-C1B	-5.53	100.48	107.16
30	05	315	CHL	C3B-C2B-C1B	-5.53	100.48	107.16
46	1r	316	XAT	O4-C5-C18	5.53	121.68	115.06
29	1S	311	CLA	CHD-C4C-C3C	-5.53	116.72	124.84
29	1b	617	CLA	C3B-C2B-C1B	-5.53	100.49	107.16
29	1G	612	CLA	CHD-C4C-C3C	-5.52	116.72	124.84
29	1S	315	CLA	C3B-C2B-C1B	-5.52	100.49	107.16
29	02	602	CLA	CHD-C4C-C3C	-5.52	116.72	124.84
29	06	609	CLA	CHD-C4C-C3C	-5.52	116.72	124.84
29	00	312	CLA	C3C-C4C-NC	5.52	116.76	110.57
29	1B	609	CLA	C3C-C4C-NC	5.52	116.76	110.57
30	04	304	CHL	C3B-C2B-C1B	-5.52	100.50	107.16
30	1n	608	CHL	C3B-C2B-C1B	-5.52	100.50	107.16
29	1G	613	CLA	CHD-C4C-C3C	-5.51	116.73	124.84
29	1b	604	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
29	1r	314	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
29	1c	509	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
29	1r	308	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
29	1C	501	CLA	C3C-C4C-NC	5.51	116.75	110.57
29	1S	310	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
30	07	304	CHL	C3B-C2B-C1B	-5.51	100.51	107.16
30	1r	313	CHL	C3B-C2B-C1B	-5.51	100.51	107.16
29	01	308	CLA	C3B-C2B-C1B	-5.51	100.51	107.16
29	00	302	CLA	O2D-CGD-CBD	5.51	121.05	111.27
30	1g	606	CHL	C3C-C4C-NC	5.51	116.75	110.57
30	1G	608	CHL	O2D-CGD-CBD	5.51	121.05	111.27
46	1G	617	XAT	C38-C25-C26	-5.51	113.03	122.26
29	09	302	CLA	C3B-C2B-C1B	-5.50	100.52	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	608	CHL	C3B-C2B-C1B	-5.50	100.52	107.16
29	1c	514	CLA	O2D-CGD-CBD	5.50	121.05	111.27
30	1s	308	CHL	C3C-C4C-NC	5.50	116.74	110.57
30	1n	609	CHL	C3B-C2B-C1B	-5.50	100.52	107.16
30	09	304	CHL	C3B-C2B-C1B	-5.50	100.52	107.16
29	00	309	CLA	CHD-C4C-C3C	-5.50	116.76	124.84
30	09	305	CHL	C3C-C4C-NC	5.50	116.73	110.57
29	1R	312	CLA	CHD-C4C-C3C	-5.50	116.76	124.84
30	05	306	CHL	C3B-C2B-C1B	-5.49	100.53	107.16
30	1s	308	CHL	C3B-C2B-C1B	-5.49	100.53	107.16
29	1R	309	CLA	C1D-CHD-C4C	-5.49	114.21	126.06
30	00	306	CHL	C3C-C4C-NC	5.49	116.73	110.57
30	06	605	CHL	C3B-C2B-C1B	-5.49	100.53	107.16
29	1G	602	CLA	C3B-C2B-C1B	-5.49	100.53	107.16
46	1g	619	XAT	C36-C21-C26	5.49	124.87	110.05
30	08	301	CHL	C3C-C4C-NC	5.49	116.73	110.57
29	09	303	CLA	CHD-C4C-C3C	-5.49	116.77	124.84
29	05	308	CLA	CHD-C4C-C3C	-5.48	116.78	124.84
30	07	303	CHL	C3B-C2B-C1B	-5.48	100.54	107.16
29	02	614	CLA	C3B-C2B-C1B	-5.48	100.54	107.16
30	04	301	CHL	C3C-C4C-NC	5.48	116.72	110.57
30	08	305	CHL	C3B-C2B-C1B	-5.48	100.55	107.16
29	02	610	CLA	CHD-C4C-C3C	-5.48	116.78	124.84
30	1R	313	CHL	C3B-C2B-C1B	-5.48	100.55	107.16
29	08	312	CLA	C3C-C4C-NC	5.48	116.71	110.57
29	04	307	CLA	CHD-C4C-C3C	-5.48	116.79	124.84
29	1r	309	CLA	C3B-C2B-C1B	-5.48	100.55	107.16
30	01	302	CHL	C3B-C2B-C1B	-5.48	100.55	107.16
30	1G	608	CHL	C3C-C4C-NC	5.47	116.71	110.57
29	1g	603	CLA	C3B-C2B-C1B	-5.47	100.55	107.16
30	07	305	CHL	C3B-C2B-C1B	-5.47	100.56	107.16
29	00	309	CLA	C3B-C2B-C1B	-5.47	100.56	107.16
29	1n	610	CLA	C1C-C2C-C3C	-5.47	101.20	106.96
29	1R	302	CLA	O2D-CGD-CBD	5.47	120.99	111.27
29	08	311	CLA	CHD-C4C-C3C	-5.47	116.80	124.84
30	09	307	CHL	C3B-C2B-C1B	-5.47	100.56	107.16
29	07	308	CLA	CHD-C4C-C3C	-5.47	116.80	124.84
30	1s	308	CHL	CHD-C1D-ND	-5.47	119.43	124.45
29	1r	312	CLA	CHD-C4C-C3C	-5.47	116.80	124.84
30	09	306	CHL	C3C-C4C-NC	5.47	116.70	110.57
30	03	305	CHL	C3B-C2B-C1B	-5.47	100.56	107.16
29	1b	606	CLA	CHD-C1D-ND	-5.47	119.43	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	609	CLA	CHD-C4C-C3C	-5.46	116.81	124.84
30	03	302	CHL	C3B-C2B-C1B	-5.46	100.57	107.16
30	1g	605	CHL	C3B-C2B-C1B	-5.46	100.57	107.16
29	1C	513	CLA	C3B-C2B-C1B	-5.46	100.57	107.16
30	1R	305	CHL	C3B-C2B-C1B	-5.46	100.57	107.16
29	06	608	CLA	CHD-C4C-C3C	-5.46	116.82	124.84
29	1c	507	CLA	C3B-C2B-C1B	-5.46	100.57	107.16
29	1C	504	CLA	CHD-C4C-C3C	-5.46	116.82	124.84
29	1R	306	CLA	C3C-C4C-NC	5.46	116.69	110.57
30	01	303	CHL	CHD-C1D-ND	-5.46	119.44	124.45
29	1C	503	CLA	C3B-C2B-C1B	-5.45	100.58	107.16
29	1N	304	CLA	C3B-C2B-C1B	-5.45	100.58	107.16
35	1J	101	BCR	C16-C15-C14	5.45	134.64	123.47
29	1n	603	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
30	02	606	CHL	C3B-C2B-C1B	-5.45	100.58	107.16
29	06	611	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
29	09	310	CLA	CHD-C4C-C3C	-5.45	116.83	124.84
29	1S	315	CLA	CHC-C4B-NB	-5.45	118.49	124.26
30	1n	607	CHL	C3C-C4C-NC	5.45	116.68	110.57
30	1G	605	CHL	C3B-C2B-C1B	-5.45	100.59	107.16
30	1G	607	CHL	C3B-C2B-C1B	-5.45	100.59	107.16
30	02	603	CHL	C3B-C2B-C1B	-5.44	100.59	107.16
41	1A	413	SQD	O47-C7-C8	5.44	123.23	111.50
29	00	311	CLA	O2D-CGD-CBD	5.44	120.94	111.27
29	1N	315	CLA	CHD-C4C-C3C	-5.44	116.84	124.84
29	1B	601	CLA	C3C-C4C-NC	5.44	116.67	110.57
29	1n	603	CLA	C3B-C2B-C1B	-5.44	100.59	107.16
29	1c	514	CLA	C3B-C2B-C1B	-5.44	100.60	107.16
30	08	303	CHL	C3C-C4C-NC	5.44	116.67	110.57
30	06	606	CHL	C3B-C2B-C1B	-5.44	100.60	107.16
30	1N	307	CHL	C3C-C4C-NC	5.44	116.67	110.57
30	1N	309	CHL	C3C-C4C-NC	5.43	116.66	110.57
30	1N	302	CHL	C3B-C2B-C1B	-5.43	100.61	107.16
29	1C	507	CLA	O2D-CGD-CBD	5.43	120.92	111.27
30	07	306	CHL	C3B-C2B-C1B	-5.43	100.61	107.16
29	1N	312	CLA	CHD-C4C-C3C	-5.43	116.86	124.84
29	1s	306	CLA	C3B-C2B-C1B	-5.43	100.61	107.16
30	00	304	CHL	C3C-C4C-NC	5.43	116.66	110.57
29	05	308	CLA	C3B-C2B-C1B	-5.42	100.62	107.16
30	06	603	CHL	C3B-C2B-C1B	-5.42	100.62	107.16
46	1g	619	XAT	C27-C28-C29	-5.42	117.12	125.53
38	1A	406	PHO	C4D-CHA-CBD	-5.42	106.07	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1R	307	CLA	C3B-C2B-C1B	-5.41	100.63	107.16
29	1R	302	CLA	C3B-C2B-C1B	-5.41	100.63	107.16
29	02	609	CLA	C3B-C2B-C1B	-5.41	100.63	107.16
29	1n	612	CLA	C3B-C2B-C1B	-5.41	100.63	107.16
30	02	605	CHL	C3C-C4C-NC	5.41	116.64	110.57
29	05	310	CLA	C3B-C2B-C1B	-5.41	100.63	107.16
30	1n	606	CHL	C3C-C4C-NC	5.41	116.64	110.57
29	1S	305	CLA	CMC-C2C-C1C	5.41	133.28	125.04
30	1n	605	CHL	C3C-C4C-NC	5.41	116.64	110.57
30	09	305	CHL	CHD-C1D-ND	-5.41	119.48	124.45
30	04	302	CHL	C3B-C2B-C1B	-5.41	100.63	107.16
30	1S	309	CHL	C3B-C2B-C1B	-5.41	100.64	107.16
30	1g	607	CHL	C3B-C2B-C1B	-5.41	100.64	107.16
30	08	304	CHL	C3C-C4C-NC	5.41	116.63	110.57
29	1C	512	CLA	CHD-C4C-C3C	-5.41	116.89	124.84
30	05	313	CHL	C3B-C2B-C1B	-5.41	100.64	107.16
29	04	306	CLA	CHD-C4C-C3C	-5.40	116.90	124.84
30	1n	609	CHL	C3C-C4C-NC	5.40	116.63	110.57
30	1g	608	CHL	C3B-C2B-C1B	-5.40	100.64	107.16
29	1a	406	CLA	O2D-CGD-CBD	5.40	120.87	111.27
29	1b	615	CLA	C3B-C2B-C1B	-5.40	100.64	107.16
29	1B	607	CLA	CHD-C4C-C3C	-5.40	116.90	124.84
29	1g	614	CLA	C3B-C2B-C1B	-5.40	100.64	107.16
30	08	302	CHL	C3B-C2B-C1B	-5.39	100.65	107.16
29	1R	310	CLA	CHD-C4C-C3C	-5.39	116.91	124.84
30	1S	307	CHL	C3B-C2B-C1B	-5.39	100.65	107.16
29	1B	601	CLA	C3B-C2B-C1B	-5.39	100.66	107.16
30	1r	306	CHL	C3B-C2B-C1B	-5.39	100.66	107.16
30	01	304	CHL	C3C-C4C-NC	5.39	116.61	110.57
29	1B	612	CLA	C3B-C2B-C1B	-5.38	100.66	107.16
46	1R	316	XAT	O24-C25-C24	5.38	117.43	113.38
30	1g	608	CHL	C3C-C4C-NC	5.38	116.61	110.57
31	07	313	LUT	C39-C29-C28	5.38	126.56	118.08
29	01	313	CLA	CHD-C4C-C3C	-5.38	116.93	124.84
29	1G	602	CLA	O2D-CGD-CBD	5.38	120.83	111.27
29	04	306	CLA	C3B-C2B-C1B	-5.38	100.67	107.16
29	04	309	CLA	C3C-C4C-NC	5.38	116.60	110.57
29	02	612	CLA	C1C-C2C-C3C	-5.38	101.30	106.96
30	06	601	CHL	C3B-C2B-C1B	-5.38	100.67	107.16
29	04	314	CLA	O2D-CGD-CBD	5.38	120.82	111.27
30	1N	308	CHL	C3C-C4C-NC	5.38	116.60	110.57
29	00	303	CLA	CHD-C4C-C3C	-5.37	116.94	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	609	CHL	C3B-C2B-C1B	-5.37	100.68	107.16
30	08	304	CHL	C3B-C2B-C1B	-5.37	100.68	107.16
29	07	307	CLA	CHD-C4C-C3C	-5.37	116.95	124.84
30	03	305	CHL	C3C-C4C-NC	5.36	116.58	110.57
29	08	309	CLA	C3B-C2B-C1B	-5.36	100.69	107.16
29	1a	406	CLA	C3B-C2B-C1B	-5.36	100.69	107.16
29	1n	614	CLA	C3B-C2B-C1B	-5.36	100.69	107.16
30	00	304	CHL	C3B-C2B-C1B	-5.36	100.69	107.16
30	08	303	CHL	C3B-C2B-C1B	-5.36	100.69	107.16
29	1r	310	CLA	C3B-C2B-C1B	-5.35	100.70	107.16
30	04	305	CHL	C3B-C2B-C1B	-5.35	100.70	107.16
35	1j	101	BCR	C23-C22-C21	5.35	127.15	118.94
30	1s	309	CHL	C3B-C2B-C1B	-5.35	100.70	107.16
30	05	304	CHL	CAC-C3C-C4C	5.35	131.75	124.81
29	1b	605	CLA	CHD-C4C-C3C	-5.35	116.98	124.84
29	09	301	CLA	CMC-C2C-C1C	5.35	133.18	125.04
29	1G	604	CLA	CHD-C4C-C3C	-5.34	116.99	124.84
30	00	305	CHL	C3C-C4C-NC	5.34	116.56	110.57
30	05	307	CHL	C3C-C4C-NC	5.34	116.56	110.57
29	1c	513	CLA	C3B-C2B-C1B	-5.34	100.71	107.16
29	1b	602	CLA	C3B-C2B-C1B	-5.34	100.72	107.16
29	1N	303	CLA	C3B-C2B-C1B	-5.34	100.72	107.16
29	1N	305	CLA	CHD-C4C-C3C	-5.34	116.99	124.84
29	1B	602	CLA	CHD-C4C-C3C	-5.34	116.99	124.84
29	1R	306	CLA	CHD-C4C-C3C	-5.34	116.99	124.84
30	02	604	CHL	C3B-C2B-C1B	-5.34	100.72	107.16
29	05	309	CLA	C3B-C2B-C1B	-5.34	100.72	107.16
30	1n	608	CHL	C3C-C4C-NC	5.34	116.56	110.57
29	01	301	CLA	CHD-C4C-C3C	-5.34	117.00	124.84
29	1b	617	CLA	CHD-C4C-C3C	-5.34	117.00	124.84
29	1g	614	CLA	CHD-C4C-C3C	-5.34	117.00	124.84
29	1b	617	CLA	O2D-CGD-CBD	5.34	120.75	111.27
30	1r	307	CHL	C3C-C4C-NC	5.33	116.55	110.57
29	1B	604	CLA	CHD-C4C-C3C	-5.33	117.00	124.84
29	1b	608	CLA	CHD-C4C-C3C	-5.33	117.00	124.84
30	00	307	CHL	C3C-C4C-NC	5.33	116.55	110.57
29	02	614	CLA	CHD-C4C-C3C	-5.33	117.00	124.84
29	1d	403	CLA	CHD-C1D-ND	-5.33	119.56	124.45
30	1g	605	CHL	C3C-C4C-NC	5.33	116.55	110.57
29	1N	313	CLA	C3B-C2B-C1B	-5.33	100.73	107.16
29	1S	314	CLA	CHD-C4C-C3C	-5.33	117.01	124.84
29	05	301	CLA	C3B-C2B-C1B	-5.33	100.73	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	311	CLA	C3B-C2B-C1B	-5.33	100.73	107.16
30	1s	304	CHL	C3C-C4C-NC	5.33	116.55	110.57
29	1S	316	CLA	C3B-C2B-C1B	-5.33	100.73	107.16
29	04	314	CLA	C3C-C4C-NC	5.33	116.55	110.57
29	1b	613	CLA	C4D-CHA-C1A	-5.33	114.77	121.25
29	1N	315	CLA	C3B-C2B-C1B	-5.33	100.73	107.16
29	05	303	CLA	C3B-C2B-C1B	-5.32	100.73	107.16
29	1A	404	CLA	O2D-CGD-CBD	5.32	120.73	111.27
30	1S	307	CHL	C3C-C4C-NC	5.32	116.54	110.57
29	01	312	CLA	C3B-C2B-C1B	-5.32	100.74	107.16
29	02	613	CLA	C3B-C2B-C1B	-5.32	100.74	107.16
30	06	604	CHL	C3B-C2B-C1B	-5.32	100.74	107.16
30	1n	606	CHL	CHD-C1D-ND	-5.32	119.57	124.45
29	01	311	CLA	O2D-CGD-CBD	5.32	120.72	111.27
29	1r	314	CLA	C3B-C2B-C1B	-5.32	100.74	107.16
29	08	312	CLA	C3B-C2B-C1B	-5.31	100.75	107.16
30	00	308	CHL	C3B-C2B-C1B	-5.31	100.75	107.16
29	1N	312	CLA	C3B-C2B-C1B	-5.31	100.75	107.16
29	1G	611	CLA	C3B-C2B-C1B	-5.31	100.75	107.16
30	02	601	CHL	C3B-C2B-C1B	-5.31	100.75	107.16
29	1C	507	CLA	CHD-C4C-C3C	-5.31	117.04	124.84
29	07	310	CLA	CHD-C4C-C3C	-5.31	117.04	124.84
30	05	315	CHL	C3C-C4C-NC	5.31	116.52	110.57
29	06	609	CLA	C3B-C2B-C1B	-5.31	100.75	107.16
29	1G	612	CLA	C3B-C2B-C1B	-5.31	100.75	107.16
29	1b	607	CLA	C3B-C2B-C1B	-5.30	100.76	107.16
29	1B	615	CLA	C3B-C2B-C1B	-5.30	100.76	107.16
30	1S	308	CHL	C3B-C2B-C1B	-5.30	100.76	107.16
29	1r	303	CLA	C3B-C2B-C1B	-5.30	100.76	107.16
29	1G	614	CLA	C3B-C2B-C1B	-5.30	100.76	107.16
29	07	302	CLA	CHC-C1C-C2C	-5.30	112.02	126.73
30	00	308	CHL	C3C-C4C-NC	5.30	116.51	110.57
30	02	607	CHL	C3B-C2B-C1B	-5.29	100.77	107.16
29	1g	602	CLA	C3B-C2B-C1B	-5.29	100.77	107.16
29	04	309	CLA	C3B-C2B-C1B	-5.29	100.78	107.16
29	04	312	CLA	C3B-C2B-C1B	-5.29	100.78	107.16
29	1g	612	CLA	C3B-C2B-C1B	-5.29	100.78	107.16
29	1R	314	CLA	CHD-C4C-C3C	-5.29	117.07	124.84
30	1g	601	CHL	C3B-C2B-C1B	-5.29	100.78	107.16
29	1R	306	CLA	C3B-C2B-C1B	-5.29	100.78	107.16
29	03	309	CLA	CHD-C4C-C3C	-5.28	117.07	124.84
29	1G	613	CLA	C3B-C2B-C1B	-5.28	100.78	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	310	CLA	O2D-CGD-CBD	5.28	120.65	111.27
29	05	303	CLA	CHD-C4C-C3C	-5.28	117.08	124.84
30	1r	313	CHL	C3C-C4C-NC	5.28	116.49	110.57
29	1D	405	CLA	C3B-C2B-C1B	-5.28	100.79	107.16
29	1c	504	CLA	O2D-CGD-CBD	5.28	120.65	111.27
30	05	305	CHL	C3B-C2B-C1B	-5.28	100.79	107.16
29	00	301	CLA	C3B-C2B-C1B	-5.28	100.79	107.16
29	1R	309	CLA	C2B-C1B-NB	5.28	113.77	110.23
29	00	312	CLA	CHD-C4C-C3C	-5.28	117.08	124.84
30	1s	310	CHL	C3B-C2B-C1B	-5.27	100.79	107.16
29	09	317	CLA	C3B-C2B-C1B	-5.27	100.80	107.16
29	1d	403	CLA	C3C-C4C-NC	5.27	116.48	110.57
30	1R	304	CHL	C3C-C4C-NC	5.27	116.48	110.57
30	1G	605	CHL	C3C-C4C-NC	5.27	116.48	110.57
29	01	313	CLA	C3B-C2B-C1B	-5.26	100.81	107.16
29	1C	502	CLA	O2D-CGD-CBD	5.26	120.62	111.27
29	1N	314	CLA	C3B-C2B-C1B	-5.26	100.81	107.16
29	1n	611	CLA	C3B-C2B-C1B	-5.26	100.81	107.16
30	1r	305	CHL	C3B-C2B-C1B	-5.26	100.81	107.16
29	1b	606	CLA	C1C-C2C-C3C	-5.26	101.42	106.96
30	01	305	CHL	C3B-C2B-C1B	-5.26	100.81	107.16
30	1g	607	CHL	CHD-C1D-ND	-5.26	119.62	124.45
29	00	310	CLA	C3B-C2B-C1B	-5.26	100.81	107.16
29	1s	312	CLA	C3B-C2B-C1B	-5.26	100.81	107.16
29	1b	614	CLA	C1D-CHD-C4C	-5.26	114.72	126.06
29	04	311	CLA	C3B-C2B-C1B	-5.25	100.82	107.16
30	07	303	CHL	C3C-C4C-NC	5.25	116.46	110.57
29	01	310	CLA	C3B-C2B-C1B	-5.25	100.82	107.16
30	02	605	CHL	C3B-C2B-C1B	-5.25	100.82	107.16
30	1s	308	CHL	O2D-CGD-CBD	5.25	120.60	111.27
29	1n	614	CLA	CHD-C4C-C3C	-5.25	117.12	124.84
30	1N	306	CHL	C3B-C2B-C1B	-5.25	100.82	107.16
30	02	601	CHL	C3C-C4C-NC	5.25	116.46	110.57
29	1c	508	CLA	CHD-C4C-C3C	-5.25	117.13	124.84
29	1c	515	CLA	CHD-C4C-C3C	-5.25	117.13	124.84
30	02	603	CHL	O2D-CGD-CBD	5.24	120.59	111.27
29	08	312	CLA	CHD-C4C-C3C	-5.24	117.13	124.84
29	1c	515	CLA	C3B-C2B-C1B	-5.24	100.83	107.16
29	04	308	CLA	C3B-C2B-C1B	-5.24	100.83	107.16
29	07	309	CLA	C3B-C2B-C1B	-5.24	100.83	107.16
30	04	301	CHL	O2D-CGD-CBD	5.24	120.58	111.27
29	09	312	CLA	CHD-C4C-C3C	-5.24	117.14	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1N	310	CHL	C3B-C2B-C1B	-5.24	100.84	107.16
29	1b	615	CLA	CHD-C4C-C3C	-5.24	117.14	124.84
29	1A	407	CLA	C3B-C2B-C1B	-5.24	100.84	107.16
30	06	604	CHL	C3C-C4C-NC	5.24	116.44	110.57
29	1b	616	CLA	O2D-CGD-CBD	5.24	120.58	111.27
29	1B	611	CLA	C1C-C2C-C3C	-5.24	101.45	106.96
30	1s	310	CHL	C3C-C4C-NC	5.23	116.44	110.57
30	04	302	CHL	C3C-C4C-NC	5.23	116.44	110.57
29	06	610	CLA	C3B-C2B-C1B	-5.23	100.85	107.16
30	09	304	CHL	C3C-C4C-NC	5.23	116.43	110.57
29	1g	604	CLA	CHD-C4C-C3C	-5.23	117.16	124.84
29	09	309	CLA	C3B-C2B-C1B	-5.23	100.85	107.16
29	03	310	CLA	CHD-C4C-C3C	-5.23	117.16	124.84
30	07	311	CHL	C3C-C4C-NC	5.22	116.43	110.57
30	08	305	CHL	C3C-C4C-NC	5.22	116.43	110.57
30	1S	304	CHL	C3C-C4C-NC	5.22	116.43	110.57
29	1B	614	CLA	C1D-CHD-C4C	-5.22	114.79	126.06
29	04	307	CLA	C3B-C2B-C1B	-5.22	100.86	107.16
30	04	301	CHL	CHD-C1D-ND	-5.22	119.66	124.45
29	07	307	CLA	C3B-C2B-C1B	-5.22	100.86	107.16
29	08	306	CLA	C3B-C2B-C1B	-5.22	100.86	107.16
29	1B	611	CLA	C4A-NA-C1A	5.22	109.05	106.71
29	1s	311	CLA	C3B-C2B-C1B	-5.22	100.87	107.16
29	1C	512	CLA	C3B-C2B-C1B	-5.21	100.87	107.16
29	1s	306	CLA	CHD-C4C-C3C	-5.21	117.18	124.84
29	1s	307	CLA	O2D-CGD-CBD	5.21	120.53	111.27
46	1g	617	XAT	C35-C34-C33	-5.21	119.87	127.31
30	02	603	CHL	C3C-C4C-NC	5.21	116.42	110.57
30	08	302	CHL	C3C-C4C-NC	5.21	116.42	110.57
29	04	310	CLA	C3B-C2B-C1B	-5.21	100.87	107.16
29	1G	603	CLA	C3B-C2B-C1B	-5.21	100.87	107.16
29	1s	311	CLA	CHD-C4C-C3C	-5.21	117.19	124.84
30	05	306	CHL	C3C-C4C-NC	5.21	116.41	110.57
30	1G	606	CHL	C3C-C4C-NC	5.21	116.41	110.57
30	1S	309	CHL	C3C-C4C-NC	5.21	116.41	110.57
29	1S	313	CLA	C3B-C2B-C1B	-5.21	100.88	107.16
29	1c	506	CLA	CHD-C4C-C3C	-5.21	117.19	124.84
29	1R	314	CLA	O2D-CGD-CBD	5.20	120.52	111.27
29	1C	510	CLA	C3B-C2B-C1B	-5.20	100.88	107.16
29	1c	505	CLA	C3B-C2B-C1B	-5.20	100.88	107.16
29	02	612	CLA	CHD-C1D-ND	-5.20	119.67	124.45
29	06	602	CLA	C3B-C2B-C1B	-5.20	100.88	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	03	301	CLA	C3B-C2B-C1B	-5.20	100.88	107.16
30	1N	307	CHL	CHD-C1D-ND	-5.20	119.67	124.45
29	1b	607	CLA	C3C-C4C-NC	5.20	116.40	110.57
30	03	311	CHL	C3C-C4C-NC	5.20	116.40	110.57
29	09	310	CLA	C3B-C2B-C1B	-5.20	100.89	107.16
29	07	302	CLA	C2D-C1D-ND	5.20	113.94	110.10
29	1D	402	CLA	C1C-C2C-C3C	-5.20	101.49	106.96
30	00	306	CHL	CHD-C1D-ND	-5.19	119.68	124.45
29	02	611	CLA	C3B-C2B-C1B	-5.19	100.89	107.16
29	04	310	CLA	CHD-C4C-C3C	-5.19	117.21	124.84
29	1S	306	CLA	C3B-C2B-C1B	-5.19	100.89	107.16
29	1G	604	CLA	O2D-CGD-CBD	5.19	120.50	111.27
30	1g	609	CHL	C3C-C4C-NC	5.19	116.39	110.57
30	04	305	CHL	C3C-C4C-NC	5.19	116.39	110.57
30	01	304	CHL	C3B-C2B-C1B	-5.19	100.90	107.16
29	1g	614	CLA	O2D-CGD-CBD	5.19	120.49	111.27
46	1r	316	XAT	C18-C5-C6	-5.19	113.56	122.26
29	1s	314	CLA	C3B-C2B-C1B	-5.19	100.90	107.16
30	06	606	CHL	O2D-CGD-CBD	5.19	120.49	111.27
29	07	308	CLA	C3B-C2B-C1B	-5.19	100.90	107.16
30	06	601	CHL	O2D-CGD-CBD	5.19	120.48	111.27
29	1n	604	CLA	CHD-C4C-C3C	-5.19	117.22	124.84
29	1A	407	CLA	O2D-CGD-CBD	5.18	120.48	111.27
35	1j	101	BCR	C24-C23-C22	-5.18	118.40	126.23
29	1S	312	CLA	C3B-C2B-C1B	-5.18	100.91	107.16
29	05	311	CLA	C3D-C4D-ND	5.18	118.62	110.24
29	1B	603	CLA	C3B-C2B-C1B	-5.18	100.91	107.16
29	1r	312	CLA	C3B-C2B-C1B	-5.18	100.91	107.16
29	1A	404	CLA	C3B-C2B-C1B	-5.18	100.91	107.16
29	00	303	CLA	O2D-CGD-CBD	5.18	120.47	111.27
29	06	608	CLA	C3B-C2B-C1B	-5.18	100.91	107.16
29	01	312	CLA	CHD-C4C-C3C	-5.18	117.23	124.84
30	06	606	CHL	C3C-C4C-NC	5.18	116.38	110.57
29	02	602	CLA	C3B-C2B-C1B	-5.18	100.91	107.16
46	1r	316	XAT	O4-C5-C4	5.17	117.27	113.38
29	03	307	CLA	C3B-C2B-C1B	-5.17	100.92	107.16
30	07	311	CHL	C3B-C2B-C1B	-5.17	100.92	107.16
29	1b	616	CLA	C3B-C2B-C1B	-5.17	100.92	107.16
30	1S	308	CHL	O2D-CGD-CBD	5.17	120.45	111.27
30	01	305	CHL	CHD-C1D-ND	-5.17	119.70	124.45
29	1c	503	CLA	O2D-CGD-CBD	5.17	120.45	111.27
29	1s	312	CLA	CHD-C4C-C3C	-5.17	117.25	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	03	302	CHL	C3C-C4C-NC	5.17	116.36	110.57
30	02	607	CHL	C3C-C4C-NC	5.17	116.36	110.57
29	1R	312	CLA	C3B-C2B-C1B	-5.17	100.93	107.16
29	01	309	CLA	C3B-C2B-C1B	-5.16	100.93	107.16
30	07	306	CHL	C3C-C4C-NC	5.16	116.36	110.57
30	07	304	CHL	C3C-C4C-NC	5.16	116.36	110.57
29	08	311	CLA	C3B-C2B-C1B	-5.16	100.93	107.16
29	1C	508	CLA	C2B-C1B-NB	5.16	113.69	110.23
29	1D	401	CLA	C1C-C2C-C3C	-5.16	101.53	106.96
29	1n	602	CLA	CHD-C4C-C3C	-5.16	117.26	124.84
30	1G	606	CHL	C3B-C2B-C1B	-5.16	100.94	107.16
30	06	605	CHL	C3C-C4C-NC	5.15	116.35	110.57
29	07	310	CLA	C3B-C2B-C1B	-5.15	100.94	107.16
29	09	312	CLA	C3B-C2B-C1B	-5.15	100.94	107.16
29	03	308	CLA	C3B-C2B-C1B	-5.15	100.95	107.16
30	05	307	CHL	C3B-C2B-C1B	-5.15	100.95	107.16
29	1r	302	CLA	O2D-CGD-CBD	5.14	120.41	111.27
29	05	302	CLA	C3B-C2B-C1B	-5.14	100.95	107.16
30	04	303	CHL	C3C-C4C-NC	5.14	116.33	110.57
29	03	309	CLA	C3B-C2B-C1B	-5.14	100.96	107.16
30	01	303	CHL	C3B-C2B-C1B	-5.14	100.96	107.16
29	1n	603	CLA	O2D-CGD-CBD	5.13	120.39	111.27
30	06	601	CHL	C3C-C4C-NC	5.13	116.33	110.57
30	07	305	CHL	C3C-C4C-NC	5.13	116.32	110.57
30	02	606	CHL	C3C-C4C-NC	5.13	116.32	110.57
30	04	301	CHL	C3B-C2B-C1B	-5.13	100.97	107.16
38	1d	404	PHO	C4D-CHA-CBD	-5.13	106.20	108.52
29	1R	310	CLA	C3B-C2B-C1B	-5.13	100.97	107.16
29	1n	612	CLA	O2D-CGD-CBD	5.13	120.38	111.27
29	1S	312	CLA	O2D-CGD-CBD	5.13	120.38	111.27
40	1e	101	PL9	C7-C8-C9	-5.13	118.26	126.79
30	1n	609	CHL	CHD-C4C-C3C	-5.12	117.31	124.84
30	1N	306	CHL	C3C-C4C-NC	5.12	116.32	110.57
29	05	311	CLA	C4D-CHA-C1A	-5.12	115.02	121.25
29	1g	613	CLA	C3B-C2B-C1B	-5.12	100.98	107.16
29	03	301	CLA	O2D-CGD-CBD	5.12	120.37	111.27
30	1r	305	CHL	O2D-CGD-CBD	5.12	120.36	111.27
30	1R	305	CHL	C3C-C4C-NC	5.12	116.31	110.57
29	1B	603	CLA	CHD-C1D-ND	-5.12	119.75	124.45
30	1r	313	CHL	O2D-CGD-CBD	5.11	120.36	111.27
29	1B	614	CLA	O2D-CGD-CBD	5.11	120.35	111.27
30	09	308	CHL	C3B-C4B-NB	5.11	115.26	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	310	CLA	CHD-C1D-ND	-5.11	119.76	124.45
29	1c	503	CLA	C3B-C2B-C1B	-5.11	100.99	107.16
29	07	309	CLA	CHD-C4C-C3C	-5.11	117.33	124.84
29	1b	611	CLA	C3B-C2B-C1B	-5.10	101.00	107.16
29	02	608	CLA	C3B-C2B-C1B	-5.10	101.00	107.16
29	03	312	CLA	C3B-C2B-C1B	-5.10	101.00	107.16
29	1a	408	CLA	O2D-CGD-CBD	5.10	120.33	111.27
29	03	310	CLA	C3B-C2B-C1B	-5.10	101.01	107.16
30	1g	609	CHL	C3B-C2B-C1B	-5.10	101.01	107.16
29	1N	311	CLA	C3B-C2B-C1B	-5.09	101.01	107.16
29	1C	501	CLA	O2D-CGD-CBD	5.09	120.32	111.27
30	06	603	CHL	C3C-C4C-NC	5.09	116.28	110.57
29	1d	406	CLA	O2D-CGD-CBD	5.09	120.32	111.27
29	05	312	CLA	C1C-C2C-C3C	-5.09	101.60	106.96
29	1A	404	CLA	O1D-CGD-CBD	-5.09	114.07	124.48
29	00	301	CLA	O2D-CGD-CBD	5.09	120.31	111.27
29	1b	602	CLA	O2D-CGD-CBD	5.09	120.31	111.27
29	1B	608	CLA	CHC-C4B-NB	-5.09	118.87	124.26
46	1G	619	XAT	O4-C5-C18	5.08	121.14	115.06
29	1c	514	CLA	C1C-C2C-C3C	-5.08	101.61	106.96
30	04	303	CHL	C3B-C2B-C1B	-5.08	101.03	107.16
31	07	313	LUT	C39-C29-C30	-5.08	115.81	122.92
29	1b	607	CLA	CHD-C4C-C3C	-5.08	117.37	124.84
30	1N	307	CHL	O2D-CGD-CBD	5.08	120.29	111.27
29	07	302	CLA	C1D-CHD-C4C	-5.08	115.11	126.06
29	1D	401	CLA	O2D-CGD-CBD	5.07	120.28	111.27
29	03	306	CLA	C3B-C2B-C1B	-5.07	101.04	107.16
29	1S	316	CLA	O2D-CGD-CBD	5.07	120.28	111.27
29	07	312	CLA	C3B-C2B-C1B	-5.07	101.04	107.16
30	01	302	CHL	C3C-C4C-NC	5.07	116.25	110.57
29	1C	509	CLA	C1C-C2C-C3C	-5.07	101.63	106.96
29	1B	614	CLA	C3B-C2B-C1B	-5.07	101.05	107.16
29	1C	512	CLA	O2D-CGD-CBD	5.07	120.27	111.27
30	1s	309	CHL	C3C-C4C-NC	5.06	116.25	110.57
46	1r	316	XAT	C11-C12-C13	-5.06	112.19	126.42
30	1G	601	CHL	C3B-C2B-C1B	-5.06	101.05	107.16
29	1S	315	CLA	CHD-C4C-C3C	-5.06	117.40	124.84
30	1n	605	CHL	O2D-CGD-CBD	5.06	120.26	111.27
29	1r	308	CLA	C3B-C2B-C1B	-5.06	101.05	107.16
30	01	306	CHL	C3C-C4C-NC	5.06	116.24	110.57
29	04	309	CLA	CHD-C4C-C3C	-5.06	117.41	124.84
29	1r	302	CLA	C3B-C2B-C1B	-5.06	101.06	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	02	604	CHL	C3C-C4C-NC	5.06	116.24	110.57
30	03	304	CHL	C3C-C4C-NC	5.06	116.24	110.57
29	1B	608	CLA	C3B-C2B-C1B	-5.06	101.06	107.16
29	1R	314	CLA	C3B-C2B-C1B	-5.05	101.06	107.16
29	1D	404	CLA	CHD-C4C-C3C	-5.05	117.41	124.84
29	01	311	CLA	C3B-C2B-C1B	-5.05	101.06	107.16
29	1s	313	CLA	C3B-C2B-C1B	-5.05	101.07	107.16
29	1B	604	CLA	C3B-C2B-C1B	-5.05	101.07	107.16
29	1C	508	CLA	C1C-C2C-C3C	-5.04	101.66	106.96
29	00	311	CLA	C3B-C2B-C1B	-5.04	101.08	107.16
30	1N	310	CHL	C3C-C4C-NC	5.04	116.22	110.57
30	01	305	CHL	C2D-C1D-ND	5.04	113.82	110.10
30	1r	306	CHL	C3D-C2D-C1D	-5.04	98.96	105.83
29	00	312	CLA	C3B-C2B-C1B	-5.04	101.08	107.16
30	1S	308	CHL	C3C-C4C-NC	5.03	116.22	110.57
29	1G	610	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
29	1s	315	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
29	1c	507	CLA	C4D-CHA-C1A	-5.03	115.12	121.25
29	09	311	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
29	02	610	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
29	1d	403	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
30	05	313	CHL	C3C-C4C-NC	5.03	116.21	110.57
29	07	309	CLA	O2D-CGD-CBD	5.03	120.21	111.27
29	1B	611	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
29	04	314	CLA	C3B-C2B-C1B	-5.03	101.09	107.16
29	1s	316	CLA	CHD-C1D-ND	-5.02	119.84	124.45
30	03	303	CHL	C3C-C4C-NC	5.02	116.20	110.57
29	1n	602	CLA	C3B-C2B-C1B	-5.02	101.10	107.16
29	1n	613	CLA	C3B-C2B-C1B	-5.02	101.11	107.16
30	00	305	CHL	C3B-C2B-C1B	-5.02	101.11	107.16
46	1R	316	XAT	C40-C33-C34	-5.02	115.90	122.92
29	09	317	CLA	CMC-C2C-C1C	5.01	132.67	125.04
30	04	304	CHL	C3C-C4C-NC	5.01	116.19	110.57
29	1a	408	CLA	C3B-C2B-C1B	-5.01	101.11	107.16
29	1c	507	CLA	O2D-CGD-CBD	5.01	120.17	111.27
29	1s	316	CLA	C3C-C4C-NC	5.01	116.19	110.57
30	1R	313	CHL	C3C-C4C-NC	5.00	116.18	110.57
29	1c	507	CLA	CHD-C4C-C3C	-5.00	117.49	124.84
29	1d	407	CLA	C3B-C2B-C1B	-5.00	101.12	107.16
30	1R	303	CHL	C3C-C4C-NC	5.00	116.18	110.57
30	1N	310	CHL	O2D-CGD-CBD	5.00	120.15	111.27
31	1g	616	LUT	C15-C14-C13	5.00	134.44	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	316	CLA	O2D-CGD-CBD	5.00	120.14	111.27
29	04	314	CLA	CHD-C4C-C3C	-4.99	117.50	124.84
29	1g	611	CLA	C3B-C2B-C1B	-4.99	101.13	107.16
29	06	611	CLA	C3B-C2B-C1B	-4.99	101.14	107.16
30	1g	605	CHL	O2D-CGD-CBD	4.99	120.13	111.27
29	06	607	CLA	C3B-C2B-C1B	-4.98	101.14	107.16
30	1G	607	CHL	C3C-C4C-NC	4.98	116.16	110.57
30	1G	601	CHL	O2D-CGD-CBD	4.98	120.12	111.27
46	1R	316	XAT	C26-C27-C28	-4.98	115.46	125.99
29	1c	511	CLA	C1C-C2C-C3C	-4.98	101.72	106.96
29	00	312	CLA	C1C-C2C-C3C	-4.98	101.72	106.96
35	1b	620	BCR	C37-C22-C21	-4.98	115.95	122.92
29	08	310	CLA	C3B-C2B-C1B	-4.98	101.15	107.16
29	1C	501	CLA	CHD-C4C-C3C	-4.98	117.53	124.84
29	1G	610	CLA	CHD-C1D-ND	-4.97	119.88	124.45
30	1n	601	CHL	C3C-C4C-NC	4.97	116.14	110.57
30	1n	609	CHL	C3D-C2D-C1D	-4.97	99.05	105.83
30	05	304	CHL	C3B-C4B-NB	4.97	115.12	110.52
29	01	313	CLA	O2D-CGD-CBD	4.97	120.09	111.27
29	1g	602	CLA	O2D-CGD-CBD	4.96	120.08	111.27
30	1n	601	CHL	C3B-C2B-C1B	-4.96	101.17	107.16
35	1k	102	BCR	C20-C21-C22	4.96	134.38	127.31
29	1a	405	CLA	C3B-C2B-C1B	-4.96	101.18	107.16
29	1s	306	CLA	O2D-CGD-CBD	4.96	120.07	111.27
29	08	307	CLA	C3B-C2B-C1B	-4.95	101.18	107.16
29	1N	304	CLA	O2D-CGD-CBD	4.95	120.07	111.27
29	1r	304	CLA	C3B-C2B-C1B	-4.95	101.19	107.16
29	1d	403	CLA	C3D-C4D-ND	4.95	118.25	110.24
29	1b	603	CLA	C1C-C2C-C3C	-4.95	101.75	106.96
29	05	312	CLA	C3D-C4D-ND	4.95	118.24	110.24
29	1R	309	CLA	C3B-C2B-C1B	-4.95	101.19	107.16
29	1n	602	CLA	O2D-CGD-CBD	4.95	120.06	111.27
29	00	302	CLA	C3B-C2B-C1B	-4.95	101.19	107.16
29	1B	613	CLA	C4A-NA-C1A	4.95	108.93	106.71
30	1G	609	CHL	C3C-C4C-NC	4.94	116.12	110.57
29	09	301	CLA	O2D-CGD-CBD	4.94	120.04	111.27
30	02	601	CHL	O2D-CGD-CBD	4.94	120.04	111.27
29	1C	504	CLA	C3B-C2B-C1B	-4.94	101.20	107.16
29	03	301	CLA	C3D-C4D-ND	4.93	118.22	110.24
30	00	305	CHL	CMB-C2B-C1B	4.93	132.88	125.37
29	1B	609	CLA	O2D-CGD-CBD	4.93	120.02	111.27
29	1R	311	CLA	C3B-C2B-C1B	-4.93	101.21	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	605	CLA	C4D-CHA-C1A	-4.92	115.26	121.25
29	1R	308	CLA	C3B-C2B-C1B	-4.92	101.22	107.16
30	1g	601	CHL	CHB-C1B-NB	-4.92	119.05	124.26
29	1c	506	CLA	O2D-CGD-CBD	4.92	120.01	111.27
29	08	311	CLA	C3D-C4D-ND	4.92	118.19	110.24
29	1G	603	CLA	O2D-CGD-CBD	4.92	120.00	111.27
29	00	318	CLA	C3B-C2B-C1B	-4.92	101.23	107.16
29	1n	611	CLA	C4D-CHA-C1A	-4.91	115.27	121.25
29	1s	307	CLA	C3B-C2B-C1B	-4.91	101.23	107.16
29	1B	606	CLA	O2D-CGD-CBD	4.91	119.99	111.27
30	1r	305	CHL	C3C-C4C-NC	4.91	116.08	110.57
29	1C	503	CLA	O2D-CGD-CBD	4.90	119.98	111.27
29	1c	515	CLA	C3D-C4D-ND	4.90	118.17	110.24
29	09	302	CLA	O2D-CGD-CBD	4.89	119.96	111.27
30	03	303	CHL	C3B-C2B-C1B	-4.89	101.26	107.16
31	01	314	LUT	C35-C15-C14	4.89	133.50	123.47
29	03	308	CLA	CHD-C4C-C3C	-4.89	117.65	124.84
30	1N	309	CHL	C3D-C2D-C1D	-4.89	99.16	105.83
30	1n	606	CHL	CAC-C3C-C4C	4.89	131.15	124.81
30	1N	306	CHL	O2D-CGD-CBD	4.89	119.95	111.27
30	09	306	CHL	C3D-C2D-C1D	-4.88	99.17	105.83
29	1r	303	CLA	O2D-CGD-CBD	4.88	119.94	111.27
29	1n	610	CLA	C3D-C4D-ND	4.88	118.14	110.24
29	1C	511	CLA	C3B-C2B-C1B	-4.88	101.27	107.16
30	01	305	CHL	CHD-C4C-C3C	-4.88	117.66	124.84
29	1g	610	CLA	C3B-C2B-C1B	-4.88	101.27	107.16
30	1N	309	CHL	CHD-C4C-C3C	-4.88	117.67	124.84
30	09	308	CHL	C3C-C4C-NC	4.88	116.04	110.57
29	1g	602	CLA	CMC-C2C-C1C	4.88	132.46	125.04
31	1g	616	LUT	C35-C34-C33	4.88	134.27	127.31
29	1C	509	CLA	O2D-CGD-CBD	4.87	119.93	111.27
29	1B	610	CLA	C3B-C2B-C1B	-4.87	101.28	107.16
29	1R	309	CLA	CHC-C1C-C2C	-4.87	113.20	126.73
29	1b	613	CLA	O2D-CGD-CBD	4.87	119.92	111.27
29	1S	310	CLA	O2D-CGD-CBD	4.87	119.92	111.27
30	1R	303	CHL	C3B-C2B-C1B	-4.87	101.29	107.16
30	1N	302	CHL	C3C-C4C-NC	4.87	116.03	110.57
29	05	303	CLA	CHD-C1D-ND	-4.87	119.98	124.45
30	1n	601	CHL	C3D-C2D-C1D	-4.86	99.19	105.83
29	02	612	CLA	C3B-C2B-C1B	-4.86	101.29	107.16
31	05	314	LUT	C19-C9-C10	-4.86	116.11	122.92
29	07	302	CLA	C3D-C2D-C1D	-4.86	99.20	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1k	102	BCR	C15-C16-C17	4.86	133.42	123.47
30	01	303	CHL	O2D-CGD-CBD	4.86	119.90	111.27
35	1j	101	BCR	C37-C22-C21	-4.86	116.12	122.92
29	1S	313	CLA	CMB-C2B-C1B	4.85	132.76	125.37
29	1C	505	CLA	CHD-C4C-C3C	-4.85	117.71	124.84
30	1n	606	CHL	O2D-CGD-CBD	4.85	119.88	111.27
29	1r	311	CLA	O2D-CGD-CBD	4.85	119.88	111.27
45	1E	103	HEM	CHD-C1D-ND	4.84	129.68	124.42
35	1b	601	BCR	C20-C21-C22	4.84	134.22	127.31
29	01	309	CLA	CHD-C1D-ND	-4.84	120.00	124.45
30	09	305	CHL	C3B-C2B-C1B	-4.84	101.32	107.16
29	1g	604	CLA	C3B-C2B-C1B	-4.84	101.32	107.16
29	1B	602	CLA	O2D-CGD-CBD	4.84	119.87	111.27
30	01	304	CHL	C3D-C2D-C1D	-4.83	99.23	105.83
29	1D	402	CLA	C3B-C2B-C1B	-4.83	101.33	107.16
29	1b	614	CLA	CHC-C1C-C2C	-4.83	113.31	126.73
30	09	307	CHL	CHD-C4C-C3C	-4.83	117.74	124.84
29	1B	616	CLA	C4D-CHA-C1A	-4.83	115.37	121.25
29	1g	604	CLA	O2D-CGD-CBD	4.83	119.85	111.27
29	1c	510	CLA	C3B-C2B-C1B	-4.83	101.33	107.16
29	1b	606	CLA	C3B-C2B-C1B	-4.83	101.34	107.16
30	1G	601	CHL	C3C-C4C-NC	4.82	115.98	110.57
30	05	307	CHL	CHD-C4C-C3C	-4.82	117.75	124.84
29	1C	512	CLA	C3D-C4D-ND	4.82	118.03	110.24
29	1B	601	CLA	C1C-C2C-C3C	-4.82	101.89	106.96
46	1g	619	XAT	C38-C25-C26	-4.82	114.19	122.26
30	05	315	CHL	O2D-CGD-CBD	4.81	119.82	111.27
30	01	302	CHL	O2D-CGD-CBD	4.81	119.82	111.27
30	02	607	CHL	O2D-CGD-CBD	4.81	119.82	111.27
29	07	302	CLA	CHC-C4B-NB	-4.81	119.17	124.26
30	1R	304	CHL	C3D-C2D-C1D	-4.81	99.27	105.83
29	1S	311	CLA	C3B-C2B-C1B	-4.81	101.36	107.16
29	02	614	CLA	C3D-C4D-ND	4.81	118.02	110.24
29	1B	613	CLA	C3D-C2D-C1D	-4.81	99.27	105.83
30	1N	302	CHL	O2D-CGD-CBD	4.81	119.81	111.27
30	05	307	CHL	C3D-C2D-C1D	-4.81	99.27	105.83
30	04	303	CHL	C3D-C2D-C1D	-4.80	99.27	105.83
29	1C	507	CLA	C3B-C4B-NB	4.80	114.97	110.52
29	1a	405	CLA	C3D-C2D-C1D	-4.80	99.28	105.83
30	09	307	CHL	C3D-C2D-C1D	-4.80	99.28	105.83
29	1B	613	CLA	O2D-CGD-CBD	4.80	119.80	111.27
29	05	312	CLA	C3C-C4C-NC	4.80	115.96	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	510	CLA	C3B-C4B-NB	4.80	114.97	110.52
29	09	311	CLA	O2D-CGD-CBD	4.80	119.80	111.27
29	1b	606	CLA	C3D-C4D-ND	4.80	118.00	110.24
29	1r	314	CLA	CHD-C1D-ND	-4.79	120.05	124.45
29	1N	305	CLA	C3B-C2B-C1B	-4.79	101.37	107.16
29	1s	311	CLA	O2D-CGD-CBD	4.79	119.78	111.27
30	1G	608	CHL	C3D-C2D-C1D	-4.79	99.29	105.83
46	1G	617	XAT	C35-C34-C33	-4.79	120.47	127.31
29	1B	613	CLA	C3B-C2B-C1B	-4.79	101.38	107.16
29	1D	404	CLA	C4D-CHA-C1A	-4.79	115.42	121.25
29	1b	615	CLA	CHD-C1D-ND	-4.79	120.06	124.45
30	05	305	CHL	C3D-C2D-C1D	-4.78	99.30	105.83
30	1n	609	CHL	O2D-CGD-CBD	4.78	119.77	111.27
29	1C	509	CLA	C3B-C2B-C1B	-4.78	101.39	107.16
29	1S	305	CLA	C3D-C4D-ND	4.78	117.97	110.24
29	02	614	CLA	CHD-C1D-ND	-4.78	120.06	124.45
29	1n	610	CLA	C3B-C2B-C1B	-4.78	101.39	107.16
29	1R	309	CLA	CHC-C4B-NB	-4.78	119.20	124.26
29	1B	607	CLA	C1C-C2C-C3C	-4.78	101.93	106.96
30	1N	308	CHL	C3D-C2D-C1D	-4.78	99.31	105.83
29	1b	614	CLA	C3B-C2B-C1B	-4.78	101.40	107.16
29	1b	613	CLA	CMC-C2C-C1C	4.78	132.31	125.04
30	01	306	CHL	O2D-CGD-CBD	4.77	119.75	111.27
30	05	304	CHL	C3C-C4C-NC	4.77	115.92	110.57
30	1G	609	CHL	O2D-CGD-CBD	4.77	119.74	111.27
29	1N	314	CLA	O2D-CGD-CBD	4.77	119.74	111.27
30	1g	609	CHL	O2D-CGD-CBD	4.77	119.74	111.27
29	01	301	CLA	O2D-CGD-CBD	4.76	119.73	111.27
35	1B	619	BCR	C34-C9-C10	-4.76	116.26	122.92
29	05	308	CLA	O2D-CGD-CBD	4.76	119.72	111.27
29	02	612	CLA	C3D-C4D-ND	4.76	117.94	110.24
31	05	314	LUT	C15-C35-C34	4.75	133.21	123.47
30	1n	607	CHL	C3D-C2D-C1D	-4.75	99.34	105.83
29	1G	610	CLA	C3D-C4D-ND	4.75	117.93	110.24
29	1a	405	CLA	CHD-C1D-ND	-4.75	120.09	124.45
29	05	311	CLA	C3B-C2B-C1B	-4.75	101.43	107.16
30	02	605	CHL	CHD-C1D-ND	-4.75	120.09	124.45
29	05	312	CLA	CHD-C4C-C3C	-4.75	117.86	124.84
30	03	303	CHL	C3B-C4B-NB	4.75	114.92	110.52
30	1s	309	CHL	C3D-C2D-C1D	-4.74	99.36	105.83
29	1C	504	CLA	O2D-CGD-CBD	4.74	119.69	111.27
30	1S	304	CHL	O2D-CGD-CBD	4.74	119.69	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	612	CLA	O2D-CGD-CBD	4.74	119.69	111.27
41	1c	517	SQD	O47-C7-C8	4.74	121.72	111.50
30	09	305	CHL	O2D-CGD-CBD	4.74	119.69	111.27
30	1n	608	CHL	C3D-C2D-C1D	-4.74	99.37	105.83
30	00	307	CHL	C3D-C2D-C1D	-4.74	99.37	105.83
30	1G	606	CHL	O2D-CGD-CBD	4.74	119.68	111.27
30	08	301	CHL	C3B-C2B-C1B	-4.73	101.45	107.16
29	1g	602	CLA	C3D-C4D-ND	4.73	117.90	110.24
29	1R	302	CLA	C3D-C4D-ND	4.73	117.90	110.24
29	07	302	CLA	C1C-C2C-C3C	-4.73	101.98	106.96
29	1c	511	CLA	CMB-C2B-C1B	4.73	132.58	125.37
30	08	302	CHL	C3D-C2D-C1D	-4.73	99.38	105.83
30	1N	307	CHL	C3B-C2B-C1B	-4.73	101.45	107.16
30	1S	309	CHL	O2D-CGD-CBD	4.73	119.67	111.27
30	1g	605	CHL	C3D-C2D-C1D	-4.73	99.38	105.83
29	01	309	CLA	O2D-CGD-CBD	4.73	119.67	111.27
30	03	303	CHL	C3D-C2D-C1D	-4.73	99.38	105.83
30	1s	309	CHL	O2D-CGD-CBD	4.73	119.67	111.27
35	1J	101	BCR	C37-C22-C21	-4.73	116.30	122.92
30	00	304	CHL	C3D-C2D-C1D	-4.72	99.38	105.83
29	1R	314	CLA	CHD-C1D-ND	-4.72	120.11	124.45
30	1G	601	CHL	C3D-C2D-C1D	-4.72	99.39	105.83
29	1C	507	CLA	C3B-C2B-C1B	-4.72	101.46	107.16
35	1k	102	BCR	C21-C20-C19	4.72	137.95	123.22
29	1b	613	CLA	C3D-C4D-ND	4.72	117.87	110.24
30	1r	307	CHL	C3D-C2D-C1D	-4.72	99.39	105.83
30	01	305	CHL	C3D-C2D-C1D	-4.72	99.40	105.83
29	1B	615	CLA	O2D-CGD-CBD	4.71	119.64	111.27
29	03	310	CLA	CHD-C1D-ND	-4.71	120.12	124.45
29	1c	513	CLA	C1C-C2C-C3C	-4.71	102.00	106.96
30	1g	606	CHL	O2D-CGD-CBD	4.71	119.64	111.27
31	01	315	LUT	C39-C29-C28	4.71	125.50	118.08
30	1N	309	CHL	C2D-C1D-ND	4.71	113.58	110.10
30	1g	608	CHL	C3D-C2D-C1D	-4.71	99.40	105.83
29	1B	601	CLA	CHD-C1D-ND	-4.71	120.12	124.45
46	1G	619	XAT	O24-C25-C38	4.71	120.70	115.06
29	1d	406	CLA	C3B-C2B-C1B	-4.71	101.48	107.16
30	1G	606	CHL	C3D-C2D-C1D	-4.71	99.40	105.83
29	02	613	CLA	C1C-C2C-C3C	-4.71	102.01	106.96
29	1c	506	CLA	C3D-C4D-ND	4.71	117.86	110.24
30	07	303	CHL	C3D-C2D-C1D	-4.71	99.41	105.83
30	1G	605	CHL	C3D-C2D-C1D	-4.71	99.41	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1R	305	CHL	C3D-C2D-C1D	-4.71	99.41	105.83
29	1b	606	CLA	C3C-C4C-NC	4.70	115.85	110.57
30	00	308	CHL	O2D-CGD-CBD	4.70	119.62	111.27
29	1B	614	CLA	CHC-C4B-NB	-4.70	119.28	124.26
29	1S	315	CLA	C3D-C4D-ND	4.70	117.84	110.24
29	1b	608	CLA	C1C-C2C-C3C	-4.70	102.02	106.96
30	00	308	CHL	C3D-C2D-C1D	-4.70	99.42	105.83
31	01	315	LUT	C35-C34-C33	4.70	134.02	127.31
29	1c	512	CLA	C1C-C2C-C3C	-4.70	102.02	106.96
29	1r	302	CLA	C3D-C4D-ND	4.70	117.84	110.24
30	1S	308	CHL	C3D-C2D-C1D	-4.70	99.42	105.83
30	07	305	CHL	C3D-C2D-C1D	-4.70	99.42	105.83
30	1g	606	CHL	C3B-C2B-C1B	-4.70	101.49	107.16
30	1g	601	CHL	O2D-CGD-CBD	4.69	119.61	111.27
29	06	602	CLA	C4A-NA-C1A	4.69	108.82	106.71
29	06	607	CLA	C3D-C4D-ND	4.69	117.83	110.24
29	1b	607	CLA	O2D-CGD-CBD	4.69	119.61	111.27
30	09	304	CHL	C3D-C2D-C1D	-4.69	99.43	105.83
29	1c	505	CLA	O2D-CGD-CBD	4.69	119.61	111.27
29	1c	503	CLA	C3D-C4D-ND	4.69	117.83	110.24
46	1G	619	XAT	C11-C10-C9	-4.69	120.61	127.31
29	1b	609	CLA	C1C-C2C-C3C	-4.69	102.03	106.96
29	03	308	CLA	CHD-C1D-ND	-4.69	120.14	124.45
29	09	310	CLA	C4D-CHA-C1A	-4.69	115.54	121.25
30	00	306	CHL	C3D-C2D-C1D	-4.69	99.44	105.83
29	1D	401	CLA	C3D-C4D-ND	4.69	117.82	110.24
30	05	305	CHL	CHD-C4C-C3C	-4.68	117.95	124.84
29	04	307	CLA	C1C-C2C-C3C	-4.68	102.03	106.96
29	1B	606	CLA	C1C-C2C-C3C	-4.68	102.03	106.96
29	1n	602	CLA	C3D-C4D-ND	4.68	117.81	110.24
29	1R	311	CLA	C1C-C2C-C3C	-4.68	102.04	106.96
30	01	302	CHL	C3D-C2D-C1D	-4.68	99.44	105.83
30	02	601	CHL	C3D-C2D-C1D	-4.68	99.44	105.83
30	03	305	CHL	C3D-C2D-C1D	-4.68	99.44	105.83
29	1S	310	CLA	C3D-C4D-ND	4.68	117.80	110.24
29	1R	306	CLA	CHD-C1D-ND	-4.68	120.16	124.45
30	07	306	CHL	C3D-C2D-C1D	-4.68	99.45	105.83
30	1n	608	CHL	CHD-C4C-C3C	-4.67	117.97	124.84
29	1B	604	CLA	O2D-CGD-CBD	4.67	119.57	111.27
29	1C	505	CLA	C3B-C2B-C1B	-4.67	101.52	107.16
29	1R	306	CLA	C3D-C4D-ND	4.67	117.80	110.24
29	1C	512	CLA	C4D-CHA-C1A	-4.67	115.56	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	512	CLA	C3B-C2B-C1B	-4.67	101.52	107.16
29	1s	312	CLA	O2D-CGD-CBD	4.67	119.56	111.27
29	1D	404	CLA	C3B-C2B-C1B	-4.67	101.53	107.16
30	05	307	CHL	O2D-CGD-CBD	4.67	119.56	111.27
29	1g	612	CLA	C1C-C2C-C3C	-4.66	102.05	106.96
29	1N	303	CLA	O2D-CGD-CBD	4.66	119.55	111.27
29	1b	610	CLA	C1C-C2C-C3C	-4.66	102.06	106.96
30	1g	601	CHL	C3C-C4C-NC	4.66	115.80	110.57
30	08	304	CHL	C3D-C2D-C1D	-4.66	99.47	105.83
29	1c	504	CLA	C3B-C2B-C1B	-4.66	101.54	107.16
30	08	303	CHL	C3D-C2D-C1D	-4.66	99.47	105.83
29	00	311	CLA	C1C-C2C-C3C	-4.66	102.06	106.96
30	03	311	CHL	C3D-C2D-C1D	-4.66	99.48	105.83
30	1N	306	CHL	C3D-C2D-C1D	-4.66	99.48	105.83
30	02	604	CHL	C3D-C2D-C1D	-4.66	99.48	105.83
30	1g	601	CHL	C3D-C2D-C1D	-4.65	99.48	105.83
29	1B	614	CLA	CMB-C2B-C1B	4.65	132.46	125.37
30	06	604	CHL	C3D-C2D-C1D	-4.65	99.48	105.83
29	1R	314	CLA	C1C-C2C-C3C	-4.65	102.06	106.96
29	04	314	CLA	C3D-C4D-ND	4.65	117.76	110.24
29	1N	303	CLA	C3D-C4D-ND	4.65	117.76	110.24
29	1R	307	CLA	C3D-C4D-ND	4.65	117.76	110.24
30	1s	308	CHL	CHD-C4C-C3C	-4.65	118.00	124.84
29	1G	604	CLA	C3B-C2B-C1B	-4.65	101.55	107.16
29	1S	310	CLA	C3B-C2B-C1B	-4.65	101.55	107.16
29	1R	306	CLA	C1C-C2C-C3C	-4.65	102.07	106.96
30	05	307	CHL	C2D-C1D-ND	4.65	113.53	110.10
30	04	302	CHL	C3D-C2D-C1D	-4.64	99.49	105.83
30	07	304	CHL	C3D-C2D-C1D	-4.64	99.49	105.83
29	1R	310	CLA	C3D-C4D-ND	4.64	117.75	110.24
30	1r	313	CHL	C3D-C2D-C1D	-4.64	99.50	105.83
29	08	308	CLA	C3D-C4D-ND	4.64	117.75	110.24
30	02	606	CHL	C3D-C2D-C1D	-4.64	99.50	105.83
30	03	304	CHL	C3D-C2D-C1D	-4.64	99.50	105.83
30	05	306	CHL	C3D-C2D-C1D	-4.64	99.50	105.83
30	09	308	CHL	C3B-C2B-C1B	-4.64	101.56	107.16
29	05	303	CLA	C3D-C4D-ND	4.64	117.75	110.24
29	1c	506	CLA	C3B-C2B-C1B	-4.64	101.56	107.16
30	05	313	CHL	C3D-C2D-C1D	-4.64	99.50	105.83
29	1n	604	CLA	C3B-C2B-C1B	-4.64	101.57	107.16
30	03	302	CHL	C3D-C2D-C1D	-4.63	99.51	105.83
29	08	312	CLA	C1C-C2C-C3C	-4.63	102.08	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	04	305	CHL	C3D-C2D-C1D	-4.63	99.51	105.83
29	1D	401	CLA	CHC-C4B-NB	-4.63	119.35	124.26
29	07	301	CLA	C3D-C4D-ND	4.63	117.73	110.24
29	1B	613	CLA	C1C-C2C-C3C	-4.63	102.08	106.96
30	02	603	CHL	C3D-C2D-C1D	-4.63	99.51	105.83
29	07	309	CLA	CHD-C1D-ND	-4.63	120.20	124.45
29	1C	504	CLA	C3D-C4D-ND	4.63	117.73	110.24
29	1S	310	CLA	CHD-C1D-ND	-4.63	120.20	124.45
30	1n	605	CHL	C3D-C2D-C1D	-4.63	99.51	105.83
30	1g	607	CHL	C3D-C2D-C1D	-4.63	99.51	105.83
29	1g	611	CLA	O2D-CGD-CBD	4.63	119.50	111.27
30	1g	606	CHL	C3D-C2D-C1D	-4.63	99.51	105.83
29	1n	604	CLA	CHD-C1D-ND	-4.63	120.20	124.45
29	1n	612	CLA	C1C-C2C-C3C	-4.63	102.09	106.96
29	1R	314	CLA	C3D-C4D-ND	4.63	117.72	110.24
29	00	301	CLA	C3D-C4D-ND	4.63	117.72	110.24
29	1c	508	CLA	CHD-C1D-ND	-4.62	120.20	124.45
30	1n	609	CHL	C2D-C1D-ND	4.62	113.51	110.10
30	06	601	CHL	C3D-C2D-C1D	-4.62	99.52	105.83
29	1S	313	CLA	C1C-C2C-C3C	-4.62	102.10	106.96
30	08	305	CHL	C3D-C2D-C1D	-4.62	99.52	105.83
29	1C	510	CLA	C1C-C2C-C3C	-4.62	102.10	106.96
30	1s	310	CHL	C3D-C2D-C1D	-4.62	99.53	105.83
35	1Z	102	BCR	C34-C9-C10	-4.62	116.45	122.92
29	02	608	CLA	C3D-C4D-ND	4.62	117.71	110.24
29	04	308	CLA	C3D-C4D-ND	4.62	117.71	110.24
29	1B	612	CLA	C1C-C2C-C3C	-4.62	102.10	106.96
30	03	311	CHL	O2D-CGD-CBD	4.62	119.47	111.27
29	1n	602	CLA	CAC-C3C-C4C	4.61	130.80	124.81
29	04	309	CLA	C3D-C4D-ND	4.61	117.70	110.24
29	1b	615	CLA	O2D-CGD-CBD	4.61	119.46	111.27
29	1D	405	CLA	CHD-C1D-ND	-4.61	120.22	124.45
30	00	308	CHL	CHD-C4C-C3C	-4.61	118.06	124.84
29	01	313	CLA	C3D-C4D-ND	4.61	117.69	110.24
30	06	606	CHL	C3D-C2D-C1D	-4.61	99.54	105.83
29	03	310	CLA	O2D-CGD-CBD	4.61	119.46	111.27
30	1s	304	CHL	C3D-C2D-C1D	-4.61	99.54	105.83
29	1B	614	CLA	CHB-C1B-NB	-4.61	119.38	124.26
30	1G	608	CHL	CHD-C4C-C3C	-4.60	118.07	124.84
30	1s	308	CHL	C3D-C2D-C1D	-4.60	99.55	105.83
29	05	301	CLA	O2D-CGD-CBD	4.60	119.45	111.27
29	1c	515	CLA	CHD-C1D-ND	-4.60	120.22	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	308	CLA	CHD-C1D-ND	-4.60	120.23	124.45
29	1S	306	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
29	1s	306	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
29	1s	315	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
29	1c	506	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
29	1G	611	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
29	1c	503	CLA	CHD-C1D-ND	-4.60	120.23	124.45
41	1b	621	SQD	O47-C7-C8	4.60	121.41	111.50
30	1N	310	CHL	C3D-C2D-C1D	-4.60	99.56	105.83
30	08	303	CHL	CHD-C4C-C3C	-4.60	118.08	124.84
30	1g	601	CHL	CHD-C4C-C3C	-4.60	118.08	124.84
46	1R	316	XAT	C18-C5-C6	-4.60	114.56	122.26
29	1c	515	CLA	C4D-CHA-C1A	-4.59	115.66	121.25
30	04	304	CHL	C3D-C2D-C1D	-4.59	99.57	105.83
29	04	306	CLA	C3D-C4D-ND	4.59	117.67	110.24
29	1B	610	CLA	O2D-CGD-CBD	4.59	119.43	111.27
45	1f	101	HEM	CHD-C1D-ND	4.59	129.40	124.42
45	1E	103	HEM	CHC-C4B-NB	4.59	129.40	124.42
30	05	315	CHL	C3D-C2D-C1D	-4.59	99.57	105.83
29	1s	313	CLA	C1C-C2C-C3C	-4.59	102.13	106.96
38	1a	407	PHO	C4D-CHA-CBD	-4.58	106.44	108.52
29	07	309	CLA	C3D-C4D-ND	4.58	117.65	110.24
29	09	301	CLA	C3D-C4D-ND	4.58	117.65	110.24
30	1S	307	CHL	C3D-C2D-C1D	-4.58	99.58	105.83
30	1g	609	CHL	C3D-C2D-C1D	-4.58	99.58	105.83
29	00	302	CLA	CHD-C1D-ND	-4.58	120.25	124.45
29	1D	404	CLA	O2D-CGD-CBD	4.57	119.39	111.27
29	1r	309	CLA	O2D-CGD-CBD	4.57	119.39	111.27
30	03	304	CHL	O2D-CGD-CBD	4.57	119.39	111.27
29	1s	305	CLA	O2D-CGD-CBD	4.57	119.39	111.27
30	09	306	CHL	CHD-C4C-C3C	-4.57	118.12	124.84
30	1G	609	CHL	CAC-C3C-C4C	4.57	130.74	124.81
46	1r	316	XAT	O24-C25-C38	4.57	120.53	115.06
29	1B	607	CLA	C3B-C2B-C1B	-4.57	101.64	107.16
29	1C	513	CLA	C2D-C1D-ND	4.57	113.47	110.10
30	09	307	CHL	C2D-C1D-ND	4.57	113.47	110.10
30	1N	307	CHL	CAC-C3C-C4C	4.57	130.74	124.81
30	1N	302	CHL	C3D-C2D-C1D	-4.57	99.60	105.83
38	1A	405	PHO	C4D-CHA-CBD	-4.57	106.45	108.52
29	1S	311	CLA	C1C-C2C-C3C	-4.57	102.15	106.96
29	1a	406	CLA	C3D-C4D-ND	4.57	117.63	110.24
30	06	603	CHL	C3D-C2D-C1D	-4.57	99.60	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	00	304	CHL	CHD-C4C-C3C	-4.57	118.13	124.84
30	06	605	CHL	C3D-C2D-C1D	-4.57	99.60	105.83
29	1C	504	CLA	CHD-C1D-ND	-4.57	120.26	124.45
29	1r	312	CLA	C3D-C4D-ND	4.57	117.62	110.24
30	09	308	CHL	C3D-C2D-C1D	-4.57	99.60	105.83
29	1c	512	CLA	CHC-C4B-NB	-4.57	119.42	124.26
29	00	302	CLA	C1C-C2C-C3C	-4.56	102.16	106.96
35	1B	617	BCR	C16-C15-C14	4.56	132.82	123.47
29	07	310	CLA	CBD-CHA-C1A	4.56	133.88	128.50
29	1b	614	CLA	C1C-C2C-C3C	-4.56	102.16	106.96
29	1c	508	CLA	C1C-C2C-C3C	-4.56	102.16	106.96
29	1s	316	CLA	C3D-C4D-ND	4.56	117.62	110.24
30	01	304	CHL	CHD-C4C-C3C	-4.56	118.14	124.84
29	1b	613	CLA	C3B-C2B-C1B	-4.56	101.66	107.16
29	07	310	CLA	C4D-CHA-C1A	-4.56	115.70	121.25
29	1B	614	CLA	C2D-C1D-ND	4.56	113.46	110.10
29	1B	606	CLA	C3D-C4D-ND	4.55	117.61	110.24
29	05	308	CLA	C3D-C4D-ND	4.55	117.60	110.24
29	1d	407	CLA	C1C-C2C-C3C	-4.55	102.17	106.96
29	1B	614	CLA	CHC-C1C-C2C	-4.55	114.09	126.73
30	07	311	CHL	C3D-C2D-C1D	-4.55	99.62	105.83
29	1N	304	CLA	C1C-C2C-C3C	-4.55	102.17	106.96
29	1r	308	CLA	C1C-C2C-C3C	-4.55	102.17	106.96
30	02	607	CHL	C3D-C2D-C1D	-4.55	99.63	105.83
29	01	312	CLA	O2D-CGD-CBD	4.55	119.35	111.27
29	09	303	CLA	C1C-C2C-C3C	-4.55	102.18	106.96
29	01	307	CLA	C1C-C2C-C3C	-4.54	102.18	106.96
29	1s	306	CLA	C3D-C4D-ND	4.54	117.59	110.24
29	08	309	CLA	CHD-C4C-C3C	-4.54	118.16	124.84
30	05	306	CHL	CHD-C4C-C3C	-4.54	118.17	124.84
29	1C	513	CLA	C3D-C4D-ND	4.54	117.58	110.24
29	1B	615	CLA	C3D-C4D-ND	4.54	117.58	110.24
30	1s	304	CHL	CHD-C4C-C3C	-4.54	118.17	124.84
29	1S	305	CLA	O2D-CGD-CBD	4.54	119.33	111.27
29	1R	311	CLA	C3D-C4D-ND	4.54	117.58	110.24
29	01	301	CLA	C4D-CHA-C1A	-4.53	115.73	121.25
29	07	307	CLA	C1C-C2C-C3C	-4.53	102.19	106.96
29	09	310	CLA	C1C-C2C-C3C	-4.53	102.19	106.96
29	1S	314	CLA	C3D-C4D-ND	4.53	117.57	110.24
29	1B	605	CLA	C3B-C2B-C1B	-4.53	101.69	107.16
29	04	314	CLA	C1C-C2C-C3C	-4.53	102.19	106.96
29	1b	617	CLA	CHD-C1D-ND	-4.53	120.29	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	611	CLA	C3D-C4D-ND	4.53	117.56	110.24
30	1G	608	CHL	C2D-C1D-ND	4.53	113.44	110.10
29	1N	305	CLA	CHD-C1D-ND	-4.53	120.29	124.45
29	1b	602	CLA	CHD-C4C-C3C	-4.53	118.19	124.84
29	1g	604	CLA	CHD-C1D-ND	-4.53	120.30	124.45
29	1A	407	CLA	C3D-C4D-ND	4.53	117.56	110.24
29	1b	609	CLA	C3D-C4D-ND	4.53	117.56	110.24
29	01	310	CLA	C4D-CHA-C1A	-4.53	115.74	121.25
29	02	610	CLA	C3D-C4D-ND	4.53	117.56	110.24
29	02	610	CLA	C1C-C2C-C3C	-4.52	102.20	106.96
29	1a	408	CLA	C3D-C4D-ND	4.52	117.56	110.24
29	03	308	CLA	C3D-C4D-ND	4.52	117.55	110.24
29	08	310	CLA	C3D-C4D-ND	4.52	117.55	110.24
29	1r	309	CLA	C3D-C4D-ND	4.52	117.55	110.24
29	1n	610	CLA	C3C-C4C-NC	4.52	115.64	110.57
29	1C	513	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
30	08	301	CHL	C3D-C2D-C1D	-4.52	99.67	105.83
29	04	310	CLA	C3D-C4D-ND	4.52	117.54	110.24
29	1c	507	CLA	C1C-C2C-C3C	-4.51	102.21	106.96
30	1n	601	CHL	O2D-CGD-CBD	4.51	119.28	111.27
29	1s	305	CLA	C3D-C4D-ND	4.51	117.53	110.24
46	1R	316	XAT	O4-C5-C18	4.51	120.46	115.06
30	01	304	CHL	O2D-CGD-CBD	4.51	119.28	111.27
29	02	602	CLA	C3D-C4D-ND	4.51	117.53	110.24
30	1s	309	CHL	C2D-C1D-ND	4.51	113.43	110.10
29	01	308	CLA	C1C-C2C-C3C	-4.51	102.22	106.96
29	1D	402	CLA	CHD-C1D-ND	-4.51	120.31	124.45
29	1n	603	CLA	CHD-C1D-ND	-4.51	120.31	124.45
29	1g	614	CLA	C1C-C2C-C3C	-4.51	102.22	106.96
29	1b	614	CLA	C2D-C1D-ND	4.51	113.42	110.10
29	04	308	CLA	CHD-C1D-ND	-4.50	120.31	124.45
30	1N	308	CHL	CHD-C4C-C3C	-4.50	118.22	124.84
46	1R	316	XAT	C11-C12-C13	-4.50	113.77	126.42
29	06	611	CLA	CHD-C1D-ND	-4.50	120.32	124.45
29	06	607	CLA	CHD-C1D-ND	-4.50	120.32	124.45
29	09	302	CLA	C3D-C4D-ND	4.50	117.52	110.24
29	06	611	CLA	C1C-C2C-C3C	-4.50	102.23	106.96
30	03	305	CHL	CHD-C4C-C3C	-4.50	118.23	124.84
30	00	307	CHL	CHD-C4C-C3C	-4.50	118.23	124.84
29	1r	303	CLA	C1C-C2C-C3C	-4.50	102.23	106.96
29	1r	309	CLA	CHD-C1D-ND	-4.50	120.32	124.45
29	05	310	CLA	C1C-C2C-C3C	-4.49	102.23	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	1g	615	LUT	C39-C29-C28	4.49	125.16	118.08
29	07	312	CLA	C3D-C4D-ND	4.49	117.51	110.24
29	1s	313	CLA	O2D-CGD-CBD	4.49	119.25	111.27
45	1f	101	HEM	CHC-C4B-NB	4.49	129.30	124.42
30	01	304	CHL	C2D-C1D-ND	4.49	113.42	110.10
29	1C	501	CLA	C3D-C4D-ND	4.49	117.51	110.24
29	1b	615	CLA	C3D-C4D-ND	4.49	117.50	110.24
29	05	301	CLA	C3D-C4D-ND	4.49	117.50	110.24
29	1n	603	CLA	C1C-C2C-C3C	-4.49	102.23	106.96
29	1s	312	CLA	C3D-C4D-ND	4.49	117.50	110.24
29	00	318	CLA	O2D-CGD-CBD	4.49	119.25	111.27
29	1g	610	CLA	CHD-C1D-ND	-4.49	120.33	124.45
29	1b	612	CLA	CAC-C3C-C4C	4.49	130.63	124.81
30	1G	606	CHL	CAC-C3C-C4C	4.49	130.63	124.81
29	04	307	CLA	CHD-C1D-ND	-4.49	120.33	124.45
29	00	310	CLA	C3D-C4D-ND	4.49	117.50	110.24
29	04	307	CLA	C3D-C4D-ND	4.49	117.50	110.24
29	00	312	CLA	CHD-C1D-ND	-4.49	120.33	124.45
30	1S	309	CHL	C3D-C2D-C1D	-4.49	99.71	105.83
30	1r	306	CHL	C2D-C1D-ND	4.48	113.41	110.10
30	01	303	CHL	CHD-C4C-C3C	-4.48	118.25	124.84
30	09	305	CHL	C3D-C2D-C1D	-4.48	99.71	105.83
29	08	310	CLA	C1C-C2C-C3C	-4.48	102.24	106.96
29	09	302	CLA	CHD-C1D-ND	-4.48	120.33	124.45
29	06	608	CLA	C3D-C4D-ND	4.48	117.49	110.24
29	06	610	CLA	C3D-C4D-ND	4.48	117.48	110.24
29	08	307	CLA	C3D-C4D-ND	4.48	117.48	110.24
46	1g	619	XAT	O24-C25-C24	4.48	116.74	113.38
29	1b	606	CLA	CBC-CAC-C3C	-4.48	100.09	112.43
29	03	307	CLA	C1C-C2C-C3C	-4.47	102.25	106.96
29	1N	312	CLA	C1C-C2C-C3C	-4.47	102.25	106.96
29	1g	611	CLA	C1C-C2C-C3C	-4.47	102.25	106.96
29	1s	306	CLA	CHC-C4B-NB	-4.47	119.52	124.26
29	06	602	CLA	C1C-C2C-C3C	-4.47	102.25	106.96
29	03	306	CLA	C3D-C4D-ND	4.47	117.47	110.24
29	07	308	CLA	C3D-C4D-ND	4.47	117.47	110.24
30	09	305	CHL	CHD-C4C-C3C	-4.47	118.27	124.84
30	1G	609	CHL	C3D-C2D-C1D	-4.47	99.73	105.83
30	1s	309	CHL	CHD-C4C-C3C	-4.47	118.27	124.84
29	1D	402	CLA	C3D-C4D-ND	4.47	117.47	110.24
29	01	307	CLA	CHD-C1D-ND	-4.47	120.35	124.45
29	1N	305	CLA	C3D-C4D-ND	4.47	117.46	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1S	304	CHL	C3D-C2D-C1D	-4.46	99.74	105.83
30	1n	608	CHL	C2D-C1D-ND	4.46	113.39	110.10
29	08	306	CLA	C1C-C2C-C3C	-4.46	102.27	106.96
29	1C	503	CLA	C3D-C2D-C1D	-4.46	99.74	105.83
30	07	303	CHL	CHD-C4C-C3C	-4.46	118.28	124.84
30	1r	306	CHL	CHD-C4C-C3C	-4.46	118.28	124.84
30	03	305	CHL	O2D-CGD-CBD	4.46	119.20	111.27
30	1R	303	CHL	C3D-C2D-C1D	-4.46	99.74	105.83
30	1N	302	CHL	CHB-C1B-NB	-4.46	119.53	124.26
29	1g	614	CLA	CHD-C1D-ND	-4.46	120.36	124.45
29	1s	316	CLA	CHD-C4C-C3C	-4.46	118.29	124.84
30	01	306	CHL	C3D-C2D-C1D	-4.46	99.75	105.83
29	00	303	CLA	CHD-C1D-ND	-4.46	120.36	124.45
29	08	307	CLA	CHD-C1D-ND	-4.46	120.36	124.45
29	03	310	CLA	C3D-C4D-ND	4.46	117.45	110.24
29	1R	309	CLA	C1C-C2C-C3C	-4.45	102.27	106.96
29	1R	310	CLA	C4D-CHA-C1A	-4.45	115.83	121.25
29	04	311	CLA	C3D-C4D-ND	4.45	117.44	110.24
29	1S	316	CLA	C3D-C4D-ND	4.45	117.44	110.24
29	1G	604	CLA	CHD-C1D-ND	-4.45	120.36	124.45
30	1G	607	CHL	C3D-C2D-C1D	-4.45	99.75	105.83
29	1C	506	CLA	O2D-CGD-CBD	4.45	119.18	111.27
30	01	303	CHL	C3D-C2D-C1D	-4.45	99.76	105.83
30	05	305	CHL	C2D-C1D-ND	4.45	113.38	110.10
29	04	308	CLA	C1C-C2C-C3C	-4.45	102.28	106.96
30	06	604	CHL	CHD-C4C-C3C	-4.44	118.31	124.84
29	1b	610	CLA	O2D-CGD-CBD	4.44	119.16	111.27
29	1b	605	CLA	C3B-C2B-C1B	-4.44	101.80	107.16
29	1c	508	CLA	O2D-CGD-CBD	4.44	119.16	111.27
29	1c	513	CLA	O2D-CGD-CBD	4.44	119.16	111.27
30	09	308	CHL	O2D-CGD-CBD	4.44	119.16	111.27
29	1R	308	CLA	CHC-C4B-NB	-4.44	119.55	124.26
29	09	302	CLA	C1C-C2C-C3C	-4.44	102.29	106.96
29	1C	502	CLA	C3B-C2B-C1B	-4.44	101.80	107.16
46	1g	619	XAT	C32-C33-C34	4.44	125.76	118.94
29	09	311	CLA	C3D-C4D-ND	4.44	117.42	110.24
30	1r	305	CHL	C3D-C2D-C1D	-4.44	99.77	105.83
29	04	310	CLA	C1C-C2C-C3C	-4.44	102.29	106.96
29	1N	315	CLA	C3D-C4D-ND	4.44	117.42	110.24
29	00	303	CLA	C1C-C2C-C3C	-4.44	102.29	106.96
29	1C	505	CLA	C1C-C2C-C3C	-4.44	102.29	106.96
30	03	302	CHL	CAA-C2A-C3A	-4.44	105.74	116.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	309	CLA	C3D-C4D-ND	4.44	117.42	110.24
30	05	304	CHL	C1C-C2C-C3C	-4.44	103.59	107.11
30	1G	605	CHL	CHD-C4C-C3C	-4.44	118.32	124.84
29	1r	314	CLA	C3D-C4D-ND	4.44	117.41	110.24
30	08	303	CHL	C2D-C1D-ND	4.44	113.37	110.10
29	1R	302	CLA	CHD-C1D-ND	-4.44	120.38	124.45
29	1b	607	CLA	CHD-C1D-ND	-4.44	120.38	124.45
29	08	311	CLA	C4D-CHA-C1A	-4.43	115.85	121.25
30	1r	307	CHL	O2D-CGD-CBD	4.43	119.15	111.27
30	09	306	CHL	C2D-C1D-ND	4.43	113.37	110.10
29	1g	610	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	01	310	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	03	312	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	03	309	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	1c	512	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	04	309	CLA	C1C-C2C-C3C	-4.43	102.30	106.96
29	1r	312	CLA	CHD-C1D-ND	-4.43	120.38	124.45
29	1d	406	CLA	C4D-CHA-C1A	-4.43	115.86	121.25
29	09	310	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	1G	604	CLA	C3D-C4D-ND	4.43	117.41	110.24
29	1S	313	CLA	C3D-C4D-ND	4.43	117.40	110.24
29	1g	604	CLA	C1C-C2C-C3C	-4.43	102.30	106.96
29	08	309	CLA	C3D-C4D-ND	4.43	117.40	110.24
29	01	309	CLA	C3D-C4D-ND	4.43	117.40	110.24
29	1B	603	CLA	C3D-C4D-ND	4.43	117.40	110.24
29	1G	603	CLA	CHD-C1D-ND	-4.43	120.39	124.45
29	1C	511	CLA	C3D-C4D-ND	4.42	117.40	110.24
29	1N	313	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
29	1G	603	CLA	C3D-C4D-ND	4.42	117.39	110.24
29	1G	613	CLA	C3D-C4D-ND	4.42	117.39	110.24
29	1S	312	CLA	C3D-C4D-ND	4.42	117.39	110.24
29	1S	305	CLA	C4D-CHA-C1A	-4.42	115.87	121.25
29	1n	604	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
29	05	312	CLA	C4D-CHA-C1A	-4.42	115.87	121.25
29	09	309	CLA	CHD-C1D-ND	-4.42	120.39	124.45
29	1r	312	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
29	1r	314	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
29	1R	307	CLA	C4D-CHA-C1A	-4.42	115.87	121.25
29	02	602	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
29	03	309	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
29	08	307	CLA	C1C-C2C-C3C	-4.42	102.31	106.96
30	1G	607	CHL	CHD-C4C-C3C	-4.42	118.34	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	617	CLA	C3D-C4D-ND	4.42	117.39	110.24
30	04	303	CHL	C3B-C4B-NB	4.42	114.61	110.52
29	1R	308	CLA	O2D-CGD-CBD	4.42	119.12	111.27
30	08	304	CHL	CHD-C4C-C3C	-4.42	118.35	124.84
29	1B	604	CLA	CHD-C1D-ND	-4.42	120.40	124.45
29	1c	511	CLA	C2B-C1B-NB	4.42	113.19	110.23
29	06	610	CLA	C1C-C2C-C3C	-4.41	102.31	106.96
29	1d	406	CLA	CAC-C3C-C4C	4.41	130.54	124.81
29	08	312	CLA	C3D-C4D-ND	4.41	117.38	110.24
29	1g	603	CLA	O2D-CGD-CBD	4.41	119.11	111.27
29	1C	508	CLA	CHC-C1C-C2C	-4.41	114.47	126.73
29	01	312	CLA	C3D-C4D-ND	4.41	117.38	110.24
29	1b	610	CLA	C3B-C2B-C1B	-4.41	101.83	107.16
30	00	306	CHL	CHD-C4C-C3C	-4.41	118.35	124.84
29	04	314	CLA	C4D-CHA-C1A	-4.41	115.88	121.25
29	1D	404	CLA	CAC-C3C-C4C	4.41	130.53	124.81
30	1g	608	CHL	CHD-C4C-C3C	-4.41	118.36	124.84
29	1C	506	CLA	C3D-C2D-C1D	-4.41	99.81	105.83
29	09	311	CLA	C1C-C2C-C3C	-4.41	102.32	106.96
29	1c	507	CLA	CMD-C2D-C3D	-4.41	117.47	127.61
29	01	307	CLA	O2D-CGD-CBD	4.41	119.10	111.27
29	1r	311	CLA	C3D-C4D-ND	4.41	117.37	110.24
29	1b	607	CLA	C3D-C4D-ND	4.41	117.36	110.24
29	02	613	CLA	C3D-C4D-ND	4.40	117.36	110.24
29	04	311	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
29	01	311	CLA	C3D-C4D-ND	4.40	117.36	110.24
29	1C	510	CLA	O2D-CGD-CBD	4.40	119.09	111.27
29	1S	310	CLA	CHC-C4B-NB	-4.40	119.60	124.26
30	1R	304	CHL	CHD-C4C-C3C	-4.40	118.37	124.84
29	1c	503	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
46	1g	619	XAT	C35-C15-C14	4.40	132.49	123.47
29	1a	406	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
29	05	309	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
29	1G	612	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
29	1s	311	CLA	C3D-C4D-ND	4.40	117.35	110.24
29	1c	515	CLA	O2D-CGD-CBD	4.39	119.08	111.27
29	1b	609	CLA	O2D-CGD-CBD	4.39	119.08	111.27
29	1R	312	CLA	C3D-C4D-ND	4.39	117.34	110.24
29	02	609	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
29	1s	311	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
29	1d	403	CLA	C4D-CHA-C1A	-4.39	115.91	121.25
29	1B	613	CLA	C1D-CHD-C4C	-4.39	116.59	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	02	611	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
29	1D	401	CLA	C3D-C2D-C1D	-4.39	99.84	105.83
29	1n	610	CLA	CAC-C3C-C4C	4.39	130.50	124.81
30	1N	307	CHL	C3D-C2D-C1D	-4.39	99.84	105.83
29	01	310	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
29	07	309	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
41	1a	410	SQD	O47-C7-C8	4.39	120.96	111.50
29	1n	604	CLA	C3D-C4D-ND	4.39	117.33	110.24
29	1n	614	CLA	C3D-C4D-ND	4.39	117.33	110.24
29	1B	604	CLA	C3D-C4D-ND	4.39	117.33	110.24
29	1a	406	CLA	CHD-C1D-ND	-4.38	120.42	124.45
29	07	310	CLA	C1C-C2C-C3C	-4.38	102.35	106.96
29	1B	605	CLA	CHD-C1D-ND	-4.38	120.43	124.45
29	09	312	CLA	C1C-C2C-C3C	-4.38	102.35	106.96
29	02	613	CLA	CHD-C1D-ND	-4.38	120.43	124.45
30	1R	313	CHL	C3D-C2D-C1D	-4.38	99.85	105.83
29	1D	401	CLA	CHD-C1D-ND	-4.38	120.43	124.45
29	1n	614	CLA	C1C-C2C-C3C	-4.38	102.35	106.96
29	01	301	CLA	C3D-C4D-ND	4.38	117.32	110.24
29	09	309	CLA	C3D-C4D-ND	4.38	117.32	110.24
29	1s	313	CLA	C3D-C4D-ND	4.38	117.32	110.24
29	1c	509	CLA	C3D-C4D-ND	4.38	117.32	110.24
29	1r	303	CLA	C3D-C4D-ND	4.38	117.32	110.24
30	07	311	CHL	C3B-C4B-NB	4.38	114.57	110.52
29	1S	314	CLA	CHD-C1D-ND	-4.37	120.43	124.45
29	1b	608	CLA	C3B-C2B-C1B	-4.37	101.88	107.16
29	1r	308	CLA	C3D-C4D-ND	4.37	117.31	110.24
29	1s	316	CLA	C1C-C2C-C3C	-4.37	102.36	106.96
30	00	305	CHL	O2D-CGD-CBD	4.37	119.04	111.27
29	1b	608	CLA	O2D-CGD-CBD	4.37	119.04	111.27
29	04	312	CLA	C1C-C2C-C3C	-4.37	102.36	106.96
29	06	609	CLA	C3D-C4D-ND	4.37	117.31	110.24
29	1g	611	CLA	C3D-C4D-ND	4.37	117.31	110.24
30	03	305	CHL	C2D-C1D-ND	4.37	113.33	110.10
29	1s	315	CLA	O2D-CGD-CBD	4.37	119.03	111.27
30	04	303	CHL	O2D-CGD-CBD	4.37	119.03	111.27
30	1r	307	CHL	CHD-C4C-C3C	-4.37	118.42	124.84
29	1G	613	CLA	C1C-C2C-C3C	-4.37	102.36	106.96
29	08	306	CLA	C3D-C4D-ND	4.37	117.30	110.24
30	1g	605	CHL	CHD-C4C-C3C	-4.37	118.42	124.84
29	1B	605	CLA	O2D-CGD-CBD	4.37	119.03	111.27
29	00	310	CLA	C1C-C2C-C3C	-4.37	102.37	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	306	CLA	C1C-C2C-C3C	-4.37	102.37	106.96
29	1S	316	CLA	C1C-C2C-C3C	-4.37	102.37	106.96
30	1n	607	CHL	CHD-C4C-C3C	-4.37	118.42	124.84
29	1r	310	CLA	C1C-C2C-C3C	-4.37	102.37	106.96
29	1s	307	CLA	C1C-C2C-C3C	-4.36	102.37	106.96
30	04	301	CHL	C3D-C2D-C1D	-4.36	99.88	105.83
29	1G	614	CLA	C1C-C2C-C3C	-4.36	102.37	106.96
30	00	306	CHL	C2D-C1D-ND	4.36	113.32	110.10
29	03	308	CLA	CAC-C3C-C4C	4.36	130.47	124.81
29	1g	603	CLA	C3D-C4D-ND	4.36	117.29	110.24
29	02	611	CLA	C3D-C4D-ND	4.36	117.29	110.24
29	1B	605	CLA	C1C-C2C-C3C	-4.36	102.37	106.96
30	1S	308	CHL	CAC-C3C-C4C	4.36	130.47	124.81
30	1r	313	CHL	CHD-C4C-C3C	-4.36	118.44	124.84
29	01	313	CLA	CHD-C1D-ND	-4.36	120.45	124.45
35	1h	101	BCR	C8-C9-C10	4.36	125.63	118.94
29	1C	513	CLA	C1C-C2C-C3C	-4.36	102.38	106.96
30	1s	304	CHL	O2D-CGD-CBD	4.36	119.01	111.27
30	07	303	CHL	CAA-C2A-C3A	-4.35	105.94	116.10
29	1R	314	CLA	C4D-CHA-C1A	-4.35	115.95	121.25
29	06	608	CLA	C1C-C2C-C3C	-4.35	102.38	106.96
29	03	308	CLA	O2D-CGD-CBD	4.35	119.00	111.27
31	1n	615	LUT	C35-C15-C14	4.35	132.39	123.47
29	07	312	CLA	C1C-C2C-C3C	-4.35	102.38	106.96
29	02	613	CLA	O2D-CGD-CBD	4.35	119.00	111.27
30	1g	609	CHL	C3B-C4B-NB	4.35	114.55	110.52
29	08	310	CLA	CHD-C1D-ND	-4.35	120.46	124.45
30	1g	606	CHL	CHD-C4C-C3C	-4.35	118.45	124.84
29	1G	614	CLA	O2D-CGD-CBD	4.35	119.00	111.27
30	1G	601	CHL	C2D-C1D-ND	4.35	113.31	110.10
29	08	310	CLA	CHC-C4B-NB	-4.35	119.66	124.26
30	1N	310	CHL	C3B-C4B-NB	4.35	114.55	110.52
29	1D	405	CLA	C1C-C2C-C3C	-4.35	102.39	106.96
29	1b	603	CLA	CHD-C1D-ND	-4.35	120.46	124.45
30	1r	307	CHL	C2D-C1D-ND	4.34	113.31	110.10
29	1d	407	CLA	C3D-C4D-ND	4.34	117.26	110.24
29	1B	602	CLA	C1C-C2C-C3C	-4.34	102.39	106.96
30	00	304	CHL	C2D-C1D-ND	4.34	113.30	110.10
29	1c	511	CLA	C3D-C4D-ND	4.34	117.26	110.24
29	05	310	CLA	C3D-C4D-ND	4.34	117.26	110.24
29	07	302	CLA	C3D-C4D-ND	4.34	117.25	110.24
30	1n	606	CHL	C3B-C2B-C1B	-4.34	101.93	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	502	CLA	CHC-C1C-C2C	-4.34	114.69	126.73
29	1N	311	CLA	C3D-C4D-ND	4.34	117.25	110.24
29	1S	315	CLA	C1C-C2C-C3C	-4.33	102.40	106.96
30	1N	307	CHL	CHD-C4C-C3C	-4.33	118.47	124.84
29	1b	602	CLA	C3D-C4D-ND	4.33	117.25	110.24
29	1C	501	CLA	C1C-C2C-C3C	-4.33	102.40	106.96
30	03	302	CHL	CHD-C4C-C3C	-4.33	118.47	124.84
30	1g	608	CHL	O2D-CGD-CBD	4.33	118.97	111.27
29	1D	401	CLA	C3B-C2B-C1B	-4.33	101.93	107.16
30	04	301	CHL	CHD-C4C-C3C	-4.33	118.47	124.84
29	03	312	CLA	C1C-C2C-C3C	-4.33	102.40	106.96
29	00	303	CLA	C3D-C4D-ND	4.33	117.25	110.24
29	03	301	CLA	C4D-CHA-C1A	-4.33	115.98	121.25
29	04	309	CLA	C4D-CHA-C1A	-4.33	115.98	121.25
29	00	318	CLA	C3D-C4D-ND	4.33	117.24	110.24
29	1N	315	CLA	CHD-C1D-ND	-4.33	120.47	124.45
29	1g	603	CLA	CHD-C1D-ND	-4.33	120.47	124.45
29	1b	609	CLA	C4D-CHA-C1A	-4.33	115.98	121.25
29	03	306	CLA	C3D-C2D-C1D	-4.33	99.92	105.83
30	1R	304	CHL	C2D-C1D-ND	4.33	113.29	110.10
30	02	601	CHL	CHD-C4C-C3C	-4.33	118.48	124.84
30	00	305	CHL	CHB-C1B-NB	-4.33	119.67	124.26
29	1B	607	CLA	CHC-C1C-C2C	-4.33	114.71	126.73
30	00	305	CHL	C3D-C2D-C1D	-4.33	99.92	105.83
29	1C	503	CLA	CHD-C1D-ND	-4.33	120.48	124.45
30	1r	306	CHL	CAC-C3C-C4C	4.33	130.43	124.81
30	1n	606	CHL	CHD-C4C-C3C	-4.33	118.48	124.84
29	1N	314	CLA	C3D-C2D-C1D	-4.33	99.93	105.83
29	01	313	CLA	C1C-C2C-C3C	-4.33	102.41	106.96
29	1B	615	CLA	C1C-C2C-C3C	-4.33	102.41	106.96
29	1C	504	CLA	C1C-C2C-C3C	-4.33	102.41	106.96
29	1S	313	CLA	CHD-C1D-ND	-4.33	120.48	124.45
29	1d	406	CLA	C3D-C4D-ND	4.33	117.23	110.24
35	1h	101	BCR	C34-C9-C10	-4.32	116.86	122.92
29	02	612	CLA	C3D-C2D-C1D	-4.32	99.93	105.83
29	09	317	CLA	C3D-C4D-ND	4.32	117.23	110.24
29	1B	604	CLA	C1C-C2C-C3C	-4.32	102.42	106.96
29	1c	515	CLA	C1C-C2C-C3C	-4.32	102.42	106.96
29	1c	514	CLA	CHB-C1B-NB	-4.32	119.69	124.26
29	1b	613	CLA	C1D-CHD-C4C	-4.32	116.75	126.06
29	09	312	CLA	C3D-C4D-ND	4.32	117.22	110.24
29	1c	506	CLA	CHD-C1D-ND	-4.32	120.49	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	01	312	CLA	C1C-C2C-C3C	-4.31	102.42	106.96
29	1D	405	CLA	C3D-C4D-ND	4.31	117.22	110.24
29	1b	611	CLA	CHC-C4B-NB	-4.31	119.69	124.26
29	1R	310	CLA	C1C-C2C-C3C	-4.31	102.42	106.96
29	07	307	CLA	C3D-C4D-ND	4.31	117.22	110.24
29	1b	606	CLA	O2D-CGD-CBD	4.31	118.93	111.27
29	00	312	CLA	O2D-CGD-CBD	4.31	118.93	111.27
29	07	308	CLA	CHD-C1D-ND	-4.31	120.49	124.45
30	1G	601	CHL	CHD-C4C-C3C	-4.31	118.50	124.84
30	00	305	CHL	C3B-C4B-NB	4.31	114.52	110.52
29	09	303	CLA	C3B-C2B-C1B	-4.31	101.96	107.16
31	01	315	LUT	C31-C30-C29	4.31	133.46	127.31
29	1B	609	CLA	CHD-C1D-ND	-4.31	120.49	124.45
29	1N	304	CLA	C3D-C4D-ND	4.31	117.21	110.24
29	1r	312	CLA	C4D-CHA-C1A	-4.31	116.00	121.25
30	1s	308	CHL	C2D-C1D-ND	4.31	113.28	110.10
30	09	305	CHL	CAC-C3C-C4C	4.31	130.40	124.81
29	1C	511	CLA	C2D-C1D-ND	4.31	113.28	110.10
29	1c	510	CLA	C4C-C3C-C2C	-4.31	100.62	106.90
30	1G	601	CHL	C3B-C4B-NB	4.30	114.51	110.52
29	1r	311	CLA	C1C-C2C-C3C	-4.30	102.43	106.96
29	04	312	CLA	C3D-C4D-ND	4.30	117.20	110.24
30	08	302	CHL	C2D-C1D-ND	4.30	113.28	110.10
29	05	302	CLA	C1C-C2C-C3C	-4.30	102.43	106.96
29	06	609	CLA	C1C-C2C-C3C	-4.30	102.43	106.96
29	1N	315	CLA	C1C-C2C-C3C	-4.30	102.43	106.96
29	03	306	CLA	CHD-C1D-ND	-4.30	120.50	124.45
29	03	307	CLA	C3D-C4D-ND	4.30	117.20	110.24
29	00	311	CLA	C3D-C2D-C1D	-4.30	99.96	105.83
29	1s	315	CLA	C3D-C4D-ND	4.30	117.20	110.24
29	1B	613	CLA	CHC-C4B-NB	-4.30	119.70	124.26
30	08	302	CHL	CHD-C4C-C3C	-4.30	118.52	124.84
29	1r	304	CLA	C4D-CHA-C1A	-4.30	116.01	121.25
35	1h	101	BCR	C7-C8-C9	4.30	132.73	126.23
29	1c	508	CLA	C3D-C4D-ND	4.30	117.19	110.24
29	1G	612	CLA	C3D-C4D-ND	4.30	117.19	110.24
30	04	302	CHL	CHD-C4C-C3C	-4.30	118.52	124.84
29	1S	311	CLA	C4D-CHA-C1A	-4.30	116.02	121.25
29	1N	304	CLA	CHD-C1D-ND	-4.30	120.50	124.45
29	05	302	CLA	C3D-C4D-ND	4.30	117.19	110.24
29	06	609	CLA	CHD-C1D-ND	-4.30	120.51	124.45
29	1N	305	CLA	C1C-C2C-C3C	-4.30	102.44	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	512	CLA	O2D-CGD-CBD	4.29	118.90	111.27
29	04	306	CLA	C4D-CHA-C1A	-4.29	116.02	121.25
46	1r	316	XAT	C40-C33-C34	-4.29	116.91	122.92
29	06	610	CLA	CHD-C1D-ND	-4.29	120.51	124.45
30	08	305	CHL	CHD-C4C-C3C	-4.29	118.53	124.84
30	1N	302	CHL	CHD-C4C-C3C	-4.29	118.53	124.84
30	06	606	CHL	CHD-C4C-C3C	-4.29	118.53	124.84
29	06	607	CLA	C1C-C2C-C3C	-4.29	102.45	106.96
30	1g	601	CHL	C3B-C4B-NB	4.29	114.50	110.52
29	1c	509	CLA	C1C-C2C-C3C	-4.29	102.45	106.96
29	1B	612	CLA	C4D-CHA-C1A	-4.29	116.03	121.25
30	03	304	CHL	CHD-C4C-C3C	-4.29	118.54	124.84
29	1N	313	CLA	C3D-C4D-ND	4.29	117.17	110.24
29	1n	614	CLA	CHD-C1D-ND	-4.29	120.52	124.45
29	1c	512	CLA	C4D-CHA-C1A	-4.29	116.03	121.25
29	02	608	CLA	C1C-C2C-C3C	-4.28	102.45	106.96
30	04	305	CHL	CHD-C4C-C3C	-4.28	118.54	124.84
29	1n	602	CLA	CHD-C1D-ND	-4.28	120.52	124.45
30	09	306	CHL	O2D-CGD-CBD	4.28	118.88	111.27
29	1G	602	CLA	C3D-C4D-ND	4.28	117.17	110.24
29	1b	612	CLA	C3D-C4D-ND	4.28	117.17	110.24
29	03	309	CLA	CHD-C1D-ND	-4.28	120.52	124.45
29	1G	603	CLA	C1C-C2C-C3C	-4.28	102.46	106.96
30	1n	605	CHL	CHD-C4C-C3C	-4.28	118.55	124.84
30	09	304	CHL	C2D-C1D-ND	4.28	113.26	110.10
30	1N	308	CHL	C2D-C1D-ND	4.28	113.26	110.10
46	1g	617	XAT	C38-C25-C26	-4.28	115.09	122.26
29	1g	613	CLA	O2D-CGD-CBD	4.28	118.87	111.27
29	1R	308	CLA	C3D-C4D-ND	4.28	117.16	110.24
30	1S	304	CHL	CHD-C4C-C3C	-4.28	118.55	124.84
29	05	309	CLA	C3D-C4D-ND	4.28	117.16	110.24
30	1s	304	CHL	C2D-C1D-ND	4.28	113.26	110.10
30	1N	306	CHL	CHD-C4C-C3C	-4.28	118.55	124.84
29	1b	615	CLA	C1C-C2C-C3C	-4.28	102.46	106.96
29	08	309	CLA	C4C-C3C-C2C	-4.27	100.67	106.90
29	1C	505	CLA	C4D-CHA-C1A	-4.27	116.05	121.25
30	05	313	CHL	C3B-C4B-NB	4.27	114.48	110.52
30	02	606	CHL	CHD-C4C-C3C	-4.27	118.56	124.84
35	1I	102	BCR	C16-C15-C14	4.27	132.22	123.47
30	02	603	CHL	CHD-C4C-C3C	-4.27	118.56	124.84
29	1S	311	CLA	CHC-C4B-NB	-4.27	119.74	124.26
29	1B	616	CLA	C1C-C2C-C3C	-4.27	102.47	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	611	CLA	C1C-C2C-C3C	-4.27	102.47	106.96
29	1G	604	CLA	C1C-C2C-C3C	-4.27	102.47	106.96
30	1g	608	CHL	C2D-C1D-ND	4.27	113.25	110.10
29	1R	311	CLA	C4D-CHA-C1A	-4.27	116.06	121.25
29	1B	608	CLA	O2D-CGD-CBD	4.27	118.85	111.27
29	1B	604	CLA	C4D-CHA-C1A	-4.27	116.06	121.25
29	1C	504	CLA	C4D-CHA-C1A	-4.26	116.06	121.25
29	00	312	CLA	C3D-C4D-ND	4.26	117.14	110.24
30	1G	605	CHL	C2D-C1D-ND	4.26	113.25	110.10
34	1A	414	DGD	O2G-C1B-C2B	4.26	120.69	111.50
29	1b	602	CLA	C1C-C2C-C3C	-4.26	102.47	106.96
29	1B	615	CLA	CHD-C1D-ND	-4.26	120.54	124.45
29	03	301	CLA	C1C-C2C-C3C	-4.26	102.48	106.96
29	1r	308	CLA	C4D-CHA-C1A	-4.26	116.06	121.25
29	1d	407	CLA	CHD-C1D-ND	-4.26	120.54	124.45
30	01	302	CHL	CHD-C4C-C3C	-4.26	118.58	124.84
29	07	301	CLA	C1C-C2C-C3C	-4.26	102.48	106.96
35	1B	630	BCR	C16-C15-C14	4.26	132.20	123.47
29	1C	502	CLA	C4A-NA-C1A	4.26	108.62	106.71
29	1N	315	CLA	O2D-CGD-CBD	4.26	118.83	111.27
29	02	614	CLA	C1C-C2C-C3C	-4.26	102.48	106.96
29	00	302	CLA	C3D-C4D-ND	4.25	117.12	110.24
29	00	311	CLA	C3D-C4D-ND	4.25	117.12	110.24
30	1g	607	CHL	CHD-C4C-C3C	-4.25	118.59	124.84
30	07	303	CHL	C2D-C1D-ND	4.25	113.24	110.10
29	1s	314	CLA	C1C-C2C-C3C	-4.25	102.48	106.96
29	1c	509	CLA	O2D-CGD-CBD	4.25	118.83	111.27
29	1C	508	CLA	C3D-C2D-C1D	-4.25	100.03	105.83
30	09	304	CHL	CHD-C4C-C3C	-4.25	118.59	124.84
29	1B	616	CLA	CMB-C2B-C1B	4.25	131.84	125.37
29	03	308	CLA	C1C-C2C-C3C	-4.25	102.49	106.96
29	1r	304	CLA	C3D-C2D-C1D	-4.25	100.03	105.83
29	1r	303	CLA	CHD-C1D-ND	-4.25	120.55	124.45
30	1g	605	CHL	C2D-C1D-ND	4.25	113.23	110.10
29	09	317	CLA	O2D-CGD-CBD	4.25	118.82	111.27
29	1s	312	CLA	C1C-C2C-C3C	-4.25	102.49	106.96
30	00	308	CHL	C2D-C1D-ND	4.25	113.23	110.10
30	03	311	CHL	CHD-C4C-C3C	-4.25	118.60	124.84
29	1G	613	CLA	CHD-C1D-ND	-4.25	120.55	124.45
29	1C	504	CLA	C3D-C2D-C1D	-4.25	100.04	105.83
29	1C	508	CLA	C1D-CHD-C4C	-4.25	116.90	126.06
29	09	303	CLA	CHD-C1D-ND	-4.24	120.55	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	06	606	CHL	C2D-C1D-ND	4.24	113.23	110.10
29	01	311	CLA	C1C-C2C-C3C	-4.24	102.50	106.96
30	07	306	CHL	CHD-C4C-C3C	-4.24	118.61	124.84
29	1n	603	CLA	C3D-C4D-ND	4.24	117.10	110.24
29	1n	610	CLA	C3D-C2D-C1D	-4.24	100.04	105.83
35	1h	101	BCR	C37-C22-C21	-4.24	116.98	122.92
29	00	309	CLA	CHD-C1D-ND	-4.24	120.56	124.45
29	08	312	CLA	CHD-C1D-ND	-4.24	120.56	124.45
30	06	603	CHL	CHD-C4C-C3C	-4.24	118.61	124.84
29	05	308	CLA	C1C-C2C-C3C	-4.24	102.50	106.96
31	1S	318	LUT	C15-C35-C34	4.24	132.15	123.47
29	1N	312	CLA	C3D-C4D-ND	4.24	117.09	110.24
30	05	315	CHL	CHD-C4C-C3C	-4.24	118.61	124.84
29	1c	505	CLA	C1C-C2C-C3C	-4.24	102.50	106.96
29	1B	609	CLA	CAC-C3C-C4C	4.23	130.30	124.81
29	02	614	CLA	C4D-CHA-C1A	-4.23	116.10	121.25
30	1N	309	CHL	C1D-ND-C4D	-4.23	103.33	106.33
29	1C	507	CLA	C3D-C4D-ND	4.23	117.08	110.24
29	1c	504	CLA	C1C-C2C-C3C	-4.23	102.51	106.96
29	1D	404	CLA	C1C-C2C-C3C	-4.23	102.51	106.96
30	1N	306	CHL	C2D-C1D-ND	4.23	113.22	110.10
29	1B	609	CLA	C3D-C4D-ND	4.23	117.07	110.24
30	07	304	CHL	CHD-C4C-C3C	-4.22	118.63	124.84
29	1a	408	CLA	C1C-C2C-C3C	-4.22	102.52	106.96
30	01	302	CHL	C2D-C1D-ND	4.22	113.22	110.10
29	1N	312	CLA	C4D-CHA-C1A	-4.22	116.11	121.25
29	06	608	CLA	CHD-C1D-ND	-4.22	120.57	124.45
30	05	304	CHL	C3D-C2D-C1D	-4.22	100.07	105.83
30	1N	309	CHL	O2D-CGD-CBD	4.22	118.77	111.27
29	07	310	CLA	C3D-C4D-ND	4.22	117.06	110.24
29	1r	310	CLA	C3D-C4D-ND	4.22	117.06	110.24
30	01	306	CHL	CHD-C4C-C3C	-4.22	118.64	124.84
29	07	308	CLA	O2D-CGD-CBD	4.22	118.77	111.27
29	09	312	CLA	CHD-C1D-ND	-4.22	120.58	124.45
30	04	305	CHL	C3B-C4B-NB	4.22	114.43	110.52
29	01	308	CLA	CHD-C1D-ND	-4.22	120.58	124.45
30	1n	607	CHL	C2D-C1D-ND	4.22	113.21	110.10
29	1r	309	CLA	C4D-CHA-C1A	-4.22	116.12	121.25
30	05	305	CHL	O2D-CGD-CBD	4.22	118.76	111.27
29	1b	610	CLA	C3D-C2D-C1D	-4.21	100.08	105.83
31	1s	318	LUT	C11-C10-C9	4.21	133.32	127.31
29	1B	603	CLA	C1C-C2C-C3C	-4.21	102.53	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	08	301	CHL	C3B-C4B-NB	4.21	114.42	110.52
29	02	611	CLA	CHD-C1D-ND	-4.21	120.58	124.45
29	00	311	CLA	C2D-C1D-ND	4.21	113.21	110.10
30	1R	305	CHL	C2D-C1D-ND	4.21	113.21	110.10
29	1B	607	CLA	C3B-C4B-NB	4.21	114.42	110.52
29	1R	311	CLA	CHD-C1D-ND	-4.21	120.58	124.45
29	07	307	CLA	CHD-C1D-ND	-4.21	120.59	124.45
29	1C	512	CLA	CHD-C1D-ND	-4.21	120.59	124.45
29	1B	613	CLA	C2D-C1D-ND	4.21	113.20	110.10
30	05	306	CHL	C2D-C1D-ND	4.21	113.20	110.10
29	05	311	CLA	CHC-C4B-NB	-4.21	119.80	124.26
30	04	302	CHL	O2D-CGD-CBD	4.21	118.74	111.27
29	08	312	CLA	C4D-CHA-C1A	-4.21	116.13	121.25
29	1B	614	CLA	C3D-C4D-ND	4.20	117.04	110.24
29	1c	507	CLA	C3D-C4D-ND	4.20	117.04	110.24
29	08	306	CLA	CHD-C1D-ND	-4.20	120.59	124.45
29	1g	602	CLA	C4D-CHA-C1A	-4.20	116.13	121.25
29	1S	312	CLA	C1C-C2C-C3C	-4.20	102.54	106.96
30	04	303	CHL	CHD-C4C-C3C	-4.20	118.66	124.84
31	1s	318	LUT	C15-C14-C13	4.20	133.31	127.31
30	05	307	CHL	C1D-ND-C4D	-4.20	103.35	106.33
29	1r	304	CLA	C3D-C4D-ND	4.20	117.04	110.24
30	02	601	CHL	C2D-C1D-ND	4.20	113.20	110.10
29	03	310	CLA	C1C-C2C-C3C	-4.20	102.54	106.96
29	1b	608	CLA	C3D-C4D-ND	4.20	117.03	110.24
29	1s	311	CLA	CHD-C1D-ND	-4.20	120.59	124.45
30	07	306	CHL	C2D-C1D-ND	4.20	113.20	110.10
29	1g	604	CLA	C3D-C4D-ND	4.20	117.03	110.24
29	1D	405	CLA	O2D-CGD-CBD	4.20	118.73	111.27
34	1c	519	DGD	O2G-C1B-C2B	4.20	120.55	111.50
29	1B	607	CLA	C3D-C4D-ND	4.20	117.03	110.24
30	02	601	CHL	C3B-C4B-NB	4.20	114.41	110.52
35	1H	101	BCR	C15-C16-C17	4.20	132.07	123.47
29	1g	614	CLA	C3D-C4D-ND	4.19	117.02	110.24
29	1g	610	CLA	C1C-C2C-C3C	-4.19	102.55	106.96
29	1R	314	CLA	CHC-C4B-NB	-4.19	119.82	124.26
30	1S	307	CHL	CHD-C4C-C3C	-4.19	118.68	124.84
30	09	307	CHL	O2D-CGD-CBD	4.19	118.72	111.27
29	1r	314	CLA	C4D-CHA-C1A	-4.19	116.15	121.25
29	1s	312	CLA	CHD-C1D-ND	-4.19	120.60	124.45
29	1b	616	CLA	C3D-C4D-ND	4.19	117.02	110.24
29	1G	614	CLA	C3D-C4D-ND	4.19	117.02	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	302	CLA	CHD-C1D-ND	-4.19	120.60	124.45
30	04	302	CHL	C2D-C1D-ND	4.19	113.19	110.10
29	1R	306	CLA	O2D-CGD-CBD	4.19	118.71	111.27
29	1N	312	CLA	CHD-C1D-ND	-4.19	120.61	124.45
29	1s	314	CLA	C3D-C4D-ND	4.19	117.01	110.24
29	1N	303	CLA	C4D-CHA-C1A	-4.19	116.15	121.25
29	1C	511	CLA	CHC-C4B-NB	-4.18	119.83	124.26
29	01	308	CLA	C3D-C4D-ND	4.18	117.01	110.24
30	1r	313	CHL	C2D-C1D-ND	4.18	113.19	110.10
29	1c	514	CLA	C3D-C4D-ND	4.18	117.00	110.24
30	08	304	CHL	C2D-C1D-ND	4.18	113.19	110.10
29	1b	614	CLA	C3D-C2D-C1D	-4.18	100.12	105.83
29	1b	616	CLA	C3D-C2D-C1D	-4.18	100.13	105.83
46	1R	316	XAT	C31-C32-C33	-4.18	114.67	126.42
29	1C	509	CLA	C3D-C4D-ND	4.18	117.00	110.24
29	1a	406	CLA	C3D-C2D-C1D	-4.18	100.13	105.83
30	04	305	CHL	C2D-C1D-ND	4.18	113.18	110.10
30	1g	606	CHL	C2D-C1D-ND	4.18	113.18	110.10
29	1R	312	CLA	C3D-C2D-C1D	-4.18	100.13	105.83
29	00	302	CLA	CHC-C4B-NB	-4.18	119.84	124.26
29	08	311	CLA	CHD-C1D-ND	-4.17	120.62	124.45
29	1C	501	CLA	CHD-C1D-ND	-4.17	120.62	124.45
29	1G	612	CLA	CHD-C1D-ND	-4.17	120.62	124.45
29	1B	607	CLA	CMB-C2B-C1B	4.17	131.73	125.37
29	1g	603	CLA	C1C-C2C-C3C	-4.17	102.57	106.96
30	01	303	CHL	C2D-C1D-ND	4.17	113.18	110.10
30	06	604	CHL	C2D-C1D-ND	4.17	113.18	110.10
30	00	308	CHL	C3B-C4B-NB	4.17	114.39	110.52
30	07	305	CHL	CAC-C3C-C4C	4.17	130.22	124.81
29	1s	314	CLA	C3D-C2D-C1D	-4.17	100.14	105.83
29	07	308	CLA	CAC-C3C-C4C	4.17	130.22	124.81
30	1s	310	CHL	CHD-C4C-C3C	-4.17	118.71	124.84
29	07	308	CLA	C1C-C2C-C3C	-4.17	102.57	106.96
30	06	605	CHL	CHD-C4C-C3C	-4.17	118.71	124.84
29	02	608	CLA	CHD-C1D-ND	-4.17	120.62	124.45
29	1C	510	CLA	C3B-C4B-NB	4.17	114.38	110.52
29	1R	312	CLA	CHD-C1D-ND	-4.17	120.62	124.45
29	1S	306	CLA	CHD-C1D-ND	-4.17	120.62	124.45
29	1B	606	CLA	C4D-CHA-C1A	-4.17	116.18	121.25
29	1B	616	CLA	C3B-C2B-C1B	-4.16	102.13	107.16
30	00	307	CHL	C2D-C1D-ND	4.16	113.17	110.10
29	02	609	CLA	C3D-C4D-ND	4.16	116.97	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	610	CLA	C1C-C2C-C3C	-4.16	102.58	106.96
29	1r	304	CLA	C1C-C2C-C3C	-4.16	102.58	106.96
30	1R	305	CHL	CHD-C4C-C3C	-4.16	118.72	124.84
31	03	313	LUT	C15-C35-C34	4.16	132.00	123.47
29	1b	603	CLA	C3D-C2D-C1D	-4.16	100.15	105.83
29	04	311	CLA	CHD-C1D-ND	-4.16	120.63	124.45
30	07	311	CHL	CHD-C4C-C3C	-4.16	118.72	124.84
29	1R	307	CLA	C3D-C2D-C1D	-4.16	100.15	105.83
29	1g	613	CLA	C3D-C4D-ND	4.16	116.97	110.24
29	1s	315	CLA	CHD-C1D-ND	-4.16	120.63	124.45
29	09	302	CLA	C3D-C2D-C1D	-4.16	100.16	105.83
29	1r	309	CLA	C3D-C2D-C1D	-4.16	100.16	105.83
29	1A	404	CLA	CHC-C4B-NB	-4.16	119.86	124.26
29	1c	513	CLA	C3B-C4B-NB	4.16	114.37	110.52
30	02	604	CHL	C2D-C1D-ND	4.16	113.17	110.10
29	1b	604	CLA	O2D-CGD-CBD	4.16	118.65	111.27
29	1S	306	CLA	C3D-C4D-ND	4.15	116.96	110.24
30	06	601	CHL	CHD-C4C-C3C	-4.15	118.73	124.84
29	1B	608	CLA	C1C-C2C-C3C	-4.15	102.59	106.96
29	1A	404	CLA	C3D-C4D-ND	4.15	116.96	110.24
29	1b	605	CLA	C3D-C4D-ND	4.15	116.96	110.24
30	1G	606	CHL	C2D-C1D-ND	4.15	113.17	110.10
29	1c	513	CLA	CHD-C1D-ND	-4.15	120.64	124.45
29	09	317	CLA	C3D-C2D-C1D	-4.15	100.16	105.83
35	1Z	101	BCR	C34-C9-C10	-4.15	117.11	122.92
29	1B	611	CLA	C3D-C4D-ND	4.15	116.95	110.24
29	1r	312	CLA	O2D-CGD-CBD	4.15	118.64	111.27
30	1s	310	CHL	C2D-C1D-ND	4.15	113.16	110.10
30	04	303	CHL	C2D-C1D-ND	4.15	113.16	110.10
29	08	311	CLA	C1C-C2C-C3C	-4.15	102.59	106.96
29	1G	611	CLA	C3D-C2D-C1D	-4.15	100.17	105.83
40	1a	412	PL9	C7-C3-C4	4.15	120.25	116.88
29	05	302	CLA	CHC-C4B-NB	-4.14	119.87	124.26
29	01	307	CLA	C3D-C4D-ND	4.14	116.94	110.24
29	02	609	CLA	CHD-C1D-ND	-4.14	120.65	124.45
29	1R	310	CLA	CHD-C1D-ND	-4.14	120.65	124.45
29	1b	611	CLA	C3D-C4D-ND	4.14	116.94	110.24
29	08	306	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
29	1r	304	CLA	O2D-CGD-CBD	4.14	118.63	111.27
29	1N	311	CLA	C1C-C2C-C3C	-4.14	102.60	106.96
46	1r	316	XAT	C26-C27-C28	-4.14	117.23	125.99
29	00	303	CLA	C3B-C2B-C1B	-4.14	102.16	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1D	405	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
29	1C	505	CLA	CMD-C2D-C3D	-4.14	118.08	127.61
29	1N	303	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
29	00	302	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
29	02	609	CLA	O2D-CGD-CBD	4.14	118.62	111.27
29	1b	606	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
29	1b	602	CLA	CHD-C1D-ND	-4.14	120.65	124.45
30	1r	305	CHL	C3B-C4B-NB	4.14	114.36	110.52
29	05	303	CLA	C1C-C2C-C3C	-4.14	102.61	106.96
30	05	313	CHL	C2D-C1D-ND	4.14	113.15	110.10
30	02	605	CHL	CHD-C4C-C3C	-4.14	118.76	124.84
29	04	309	CLA	CHD-C1D-ND	-4.14	120.65	124.45
35	1Z	102	BCR	C37-C22-C21	-4.14	117.13	122.92
29	1N	313	CLA	CHD-C1D-ND	-4.14	120.65	124.45
30	05	313	CHL	CHD-C4C-C3C	-4.14	118.76	124.84
29	1b	610	CLA	C3D-C4D-ND	4.14	116.93	110.24
29	02	614	CLA	C3D-C2D-C1D	-4.14	100.19	105.83
29	1c	512	CLA	CMB-C2B-C1B	4.14	131.67	125.37
29	06	602	CLA	C3D-C4D-ND	4.13	116.92	110.24
29	1B	603	CLA	O2D-CGD-CBD	4.13	118.61	111.27
30	02	603	CHL	C2D-C1D-ND	4.13	113.15	110.10
30	07	305	CHL	CHD-C4C-C3C	-4.13	118.77	124.84
30	1n	608	CHL	O2D-CGD-CBD	4.13	118.61	111.27
35	1i	101	BCR	C16-C15-C14	4.13	131.93	123.47
30	09	307	CHL	C1D-ND-C4D	-4.13	103.40	106.33
29	01	312	CLA	CHD-C1D-ND	-4.13	120.66	124.45
29	1B	611	CLA	C1D-CHD-C4C	-4.13	117.15	126.06
29	05	308	CLA	C4D-CHA-C1A	-4.13	116.22	121.25
29	1D	401	CLA	C2D-C1D-ND	4.13	113.15	110.10
33	1C	522	LHG	O7-C7-C8	4.13	120.40	111.50
29	1c	508	CLA	CHC-C1C-C2C	-4.13	115.27	126.73
30	1n	609	CHL	C1D-ND-C4D	-4.13	103.40	106.33
29	1B	609	CLA	C3B-C2B-C1B	-4.13	102.18	107.16
30	09	304	CHL	C3B-C4B-NB	4.13	114.34	110.52
29	1d	407	CLA	O2D-CGD-CBD	4.12	118.60	111.27
29	1R	308	CLA	C1C-C2C-C3C	-4.12	102.62	106.96
29	1c	505	CLA	C3D-C2D-C1D	-4.12	100.20	105.83
29	1d	403	CLA	O2D-CGD-CBD	4.12	118.59	111.27
35	1B	617	BCR	C34-C9-C10	-4.12	117.15	122.92
30	1g	607	CHL	C3B-C4B-NB	4.12	114.34	110.52
29	1R	307	CLA	CMC-C2C-C1C	4.12	131.31	125.04
30	02	604	CHL	CHD-C4C-C3C	-4.12	118.78	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	602	CLA	C3D-C2D-C1D	-4.12	100.21	105.83
29	1B	601	CLA	C3D-C4D-ND	4.12	116.90	110.24
29	02	610	CLA	CHD-C1D-ND	-4.12	120.67	124.45
29	1c	504	CLA	CHC-C1C-C2C	-4.12	115.29	126.73
30	08	301	CHL	CHD-C4C-C3C	-4.12	118.79	124.84
29	05	301	CLA	C1C-C2C-C3C	-4.12	102.63	106.96
35	1B	619	BCR	C37-C22-C21	-4.12	117.16	122.92
29	00	301	CLA	C3D-C2D-C1D	-4.12	100.21	105.83
29	00	312	CLA	C3B-C4B-NB	4.12	114.33	110.52
29	05	309	CLA	C3D-C2D-C1D	-4.12	100.21	105.83
29	06	602	CLA	O2D-CGD-CBD	4.12	118.58	111.27
29	01	313	CLA	C4D-CHA-C1A	-4.12	116.24	121.25
29	02	608	CLA	C3D-C2D-C1D	-4.11	100.22	105.83
29	1a	406	CLA	C4D-CHA-C1A	-4.11	116.24	121.25
29	1d	403	CLA	C3D-C2D-C1D	-4.11	100.22	105.83
29	1C	509	CLA	C4D-CHA-C1A	-4.11	116.24	121.25
29	1C	503	CLA	C1C-C2C-C3C	-4.11	102.63	106.96
29	05	310	CLA	C3D-C2D-C1D	-4.11	100.22	105.83
29	1s	307	CLA	C3D-C4D-ND	4.11	116.89	110.24
29	1S	306	CLA	C3D-C2D-C1D	-4.11	100.22	105.83
30	1R	313	CHL	CHD-C4C-C3C	-4.11	118.80	124.84
31	07	313	LUT	C19-C9-C10	-4.11	117.17	122.92
29	1b	616	CLA	C4A-NA-C1A	4.11	108.55	106.71
30	03	302	CHL	C3B-C4B-NB	4.11	114.33	110.52
29	1a	405	CLA	CHC-C4B-NB	-4.11	119.91	124.26
29	1S	316	CLA	CHD-C1D-ND	-4.11	120.68	124.45
29	1G	610	CLA	C3D-C2D-C1D	-4.11	100.23	105.83
29	02	610	CLA	CHC-C4B-NB	-4.11	119.91	124.26
29	1r	304	CLA	CHD-C1D-ND	-4.11	120.68	124.45
29	1n	602	CLA	CHC-C4B-NB	-4.11	119.91	124.26
29	1b	616	CLA	C1C-C2C-C3C	-4.11	102.64	106.96
30	1n	606	CHL	C3D-C2D-C1D	-4.10	100.23	105.83
29	00	309	CLA	C4D-CHA-C1A	-4.10	116.25	121.25
29	1n	612	CLA	C3D-C4D-ND	4.10	116.88	110.24
29	01	312	CLA	C4D-CHA-C1A	-4.10	116.25	121.25
29	02	602	CLA	C3D-C2D-C1D	-4.10	100.23	105.83
29	1c	513	CLA	C3D-C2D-C1D	-4.10	100.23	105.83
30	1s	309	CHL	C1D-ND-C4D	-4.10	103.42	106.33
29	1C	510	CLA	C3D-C4D-ND	4.10	116.87	110.24
30	02	606	CHL	C2D-C1D-ND	4.10	113.13	110.10
29	1b	610	CLA	CMB-C2B-C1B	4.10	131.62	125.37
29	06	607	CLA	C3D-C2D-C1D	-4.10	100.23	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	607	CLA	C4D-CHA-C1A	-4.10	116.26	121.25
31	1G	616	LUT	C19-C9-C10	-4.10	117.18	122.92
29	1b	608	CLA	CHD-C1D-ND	-4.10	120.69	124.45
29	1R	309	CLA	C3D-C2D-C1D	-4.10	100.24	105.83
42	1s	320	MGE	O2G-C1B-C2B	4.10	120.34	111.50
29	1C	510	CLA	CHD-C1D-ND	-4.10	120.69	124.45
29	1s	307	CLA	CHD-C1D-ND	-4.10	120.69	124.45
29	1C	511	CLA	C3D-C2D-C1D	-4.10	100.24	105.83
31	01	314	LUT	C19-C9-C8	4.10	124.53	118.08
29	1s	313	CLA	CHD-C1D-ND	-4.10	120.69	124.45
29	1B	608	CLA	C3D-C2D-C1D	-4.10	100.24	105.83
30	09	305	CHL	C2D-C1D-ND	4.10	113.12	110.10
46	1R	316	XAT	C32-C33-C34	4.10	125.23	118.94
29	1a	405	CLA	CAC-C3C-C4C	4.10	130.12	124.81
30	1N	310	CHL	CHD-C4C-C3C	-4.09	118.82	124.84
29	1a	405	CLA	C3D-C4D-ND	4.09	116.86	110.24
29	1g	614	CLA	C4D-CHA-C1A	-4.09	116.27	121.25
29	1b	617	CLA	C1C-C2C-C3C	-4.09	102.65	106.96
29	1b	611	CLA	C3D-C2D-C1D	-4.09	100.24	105.83
29	01	301	CLA	CHD-C1D-ND	-4.09	120.69	124.45
30	1N	307	CHL	C3B-C4B-NB	4.09	114.31	110.52
35	1Z	101	BCR	C37-C22-C21	-4.09	117.19	122.92
30	08	304	CHL	C3B-C4B-NB	4.09	114.31	110.52
31	1s	318	LUT	C10-C11-C12	4.09	135.99	123.22
30	06	601	CHL	C2D-C1D-ND	4.09	113.12	110.10
29	1A	407	CLA	C4D-CHA-C1A	-4.09	116.27	121.25
30	04	304	CHL	CHD-C4C-C3C	-4.09	118.83	124.84
29	1B	615	CLA	C3D-C2D-C1D	-4.09	100.25	105.83
29	02	602	CLA	C4D-CHA-C1A	-4.09	116.28	121.25
29	1d	407	CLA	CHC-C4B-NB	-4.08	119.93	124.26
30	1n	607	CHL	O2D-CGD-CBD	4.08	118.53	111.27
29	07	310	CLA	CHD-C1D-ND	-4.08	120.70	124.45
46	1G	617	XAT	O24-C25-C38	4.08	119.95	115.06
30	03	302	CHL	C2D-C1D-ND	4.08	113.11	110.10
29	06	609	CLA	C3D-C2D-C1D	-4.08	100.26	105.83
29	1B	611	CLA	C3D-C2D-C1D	-4.08	100.26	105.83
31	1s	318	LUT	C15-C35-C34	4.08	131.84	123.47
31	1s	317	LUT	C7-C8-C9	4.08	132.40	126.23
29	1S	311	CLA	C3D-C4D-ND	4.08	116.84	110.24
34	1C	518	DGD	O2G-C1B-C2B	4.08	120.30	111.50
29	1c	513	CLA	C3D-C4D-ND	4.08	116.84	110.24
29	04	306	CLA	CHD-C1D-ND	-4.08	120.70	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1g	609	CHL	C2D-C1D-ND	4.08	113.11	110.10
30	1n	605	CHL	C2D-C1D-ND	4.08	113.11	110.10
29	1s	315	CLA	C3D-C2D-C1D	-4.08	100.26	105.83
29	1N	314	CLA	C3B-C4B-NB	4.08	114.30	110.52
29	1b	608	CLA	C3B-C4B-NB	4.08	114.30	110.52
29	1C	506	CLA	C1C-C2C-C3C	-4.08	102.67	106.96
29	1n	611	CLA	C1C-C2C-C3C	-4.08	102.67	106.96
29	1c	510	CLA	C3D-C4D-ND	4.08	116.84	110.24
29	1B	603	CLA	C3D-C2D-C1D	-4.08	100.27	105.83
29	05	301	CLA	CHD-C1D-ND	-4.08	120.71	124.45
35	1b	619	BCR	C37-C22-C21	-4.08	117.21	122.92
29	1A	404	CLA	C4C-C3C-C2C	-4.08	100.96	106.90
29	06	602	CLA	CHC-C4B-NB	-4.07	119.94	124.26
29	1C	502	CLA	C3B-C4B-NB	4.07	114.29	110.52
30	1n	607	CHL	C3B-C4B-NB	4.07	114.29	110.52
30	08	305	CHL	C2D-C1D-ND	4.07	113.11	110.10
29	1r	308	CLA	CHC-C4B-NB	-4.07	119.95	124.26
35	1d	409	BCR	C34-C9-C10	-4.07	117.22	122.92
30	1S	308	CHL	C2D-C1D-ND	4.07	113.10	110.10
29	08	308	CLA	CHD-C1D-ND	-4.07	120.71	124.45
29	06	611	CLA	C3D-C2D-C1D	-4.07	100.28	105.83
29	01	301	CLA	C1C-C2C-C3C	-4.07	102.68	106.96
30	02	603	CHL	C3B-C4B-NB	4.07	114.29	110.52
30	03	305	CHL	C3B-C4B-NB	4.07	114.29	110.52
29	1S	315	CLA	C4D-CHA-C1A	-4.07	116.30	121.25
29	00	318	CLA	C3D-C2D-C1D	-4.07	100.28	105.83
30	1S	309	CHL	CHD-C4C-C3C	-4.07	118.86	124.84
30	08	303	CHL	C1D-ND-C4D	-4.07	103.44	106.33
30	1n	608	CHL	C1D-ND-C4D	-4.07	103.44	106.33
30	03	304	CHL	C2D-C1D-ND	4.07	113.10	110.10
29	04	311	CLA	C3D-C2D-C1D	-4.07	100.28	105.83
29	1B	612	CLA	CHD-C1D-ND	-4.06	120.72	124.45
29	1g	603	CLA	C3D-C2D-C1D	-4.06	100.28	105.83
30	1R	305	CHL	C3B-C4B-NB	4.06	114.28	110.52
29	1S	312	CLA	C3D-C2D-C1D	-4.06	100.29	105.83
30	07	305	CHL	C2D-C1D-ND	4.06	113.10	110.10
29	1C	505	CLA	CHC-C4B-NB	-4.06	119.96	124.26
29	1n	613	CLA	C3D-C2D-C1D	-4.06	100.29	105.83
29	00	309	CLA	C1C-C2C-C3C	-4.06	102.69	106.96
29	03	309	CLA	CHC-C4B-NB	-4.06	119.96	124.26
30	06	605	CHL	C2D-C1D-ND	4.06	113.09	110.10
30	00	307	CHL	C3B-C4B-NB	4.06	114.28	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	02	606	CHL	C3B-C4B-NB	4.06	114.28	110.52
29	1B	608	CLA	CHC-C1C-C2C	-4.06	115.46	126.73
29	1n	613	CLA	C3D-C4D-ND	4.06	116.80	110.24
29	02	613	CLA	C3D-C2D-C1D	-4.06	100.29	105.83
29	1b	617	CLA	C3D-C2D-C1D	-4.06	100.29	105.83
30	06	601	CHL	C3B-C4B-NB	4.06	114.28	110.52
29	09	309	CLA	C1C-C2C-C3C	-4.06	102.69	106.96
29	06	611	CLA	CHC-C4B-NB	-4.06	119.96	124.26
30	01	302	CHL	C3B-C4B-NB	4.06	114.28	110.52
29	00	312	CLA	C3D-C2D-C1D	-4.06	100.30	105.83
29	1C	511	CLA	C1C-C2C-C3C	-4.06	102.69	106.96
29	01	308	CLA	C3D-C2D-C1D	-4.05	100.30	105.83
29	1G	614	CLA	C4D-CHA-C1A	-4.05	116.31	121.25
29	02	612	CLA	C4D-CHA-C1A	-4.05	116.32	121.25
29	04	310	CLA	C4D-CHA-C1A	-4.05	116.32	121.25
29	1N	313	CLA	C3D-C2D-C1D	-4.05	100.30	105.83
30	1n	605	CHL	C3B-C4B-NB	4.05	114.27	110.52
30	1g	607	CHL	C2D-C1D-ND	4.05	113.09	110.10
29	1c	515	CLA	O2A-CGA-CBA	4.05	124.62	111.91
29	00	301	CLA	C4D-CHA-C1A	-4.05	116.32	121.25
29	1n	604	CLA	C4D-CHA-C1A	-4.05	116.32	121.25
29	1A	404	CLA	C3D-C2D-C1D	-4.05	100.30	105.83
29	1C	502	CLA	C1D-CHD-C4C	-4.05	117.32	126.06
30	07	303	CHL	C3B-C4B-NB	4.05	114.27	110.52
29	02	609	CLA	C3D-C2D-C1D	-4.05	100.31	105.83
30	1S	307	CHL	C3B-C4B-NB	4.05	114.27	110.52
30	1g	606	CHL	C3B-C4B-NB	4.05	114.27	110.52
29	1c	505	CLA	CHD-C1D-ND	-4.05	120.73	124.45
30	1S	309	CHL	C3B-C4B-NB	4.05	114.27	110.52
29	1A	407	CLA	C3D-C2D-C1D	-4.05	100.31	105.83
29	1n	614	CLA	O2D-CGD-CBD	4.05	118.46	111.27
29	1c	511	CLA	C4A-NA-C1A	4.05	108.53	106.71
29	07	301	CLA	CHD-C1D-ND	-4.05	120.74	124.45
29	1b	612	CLA	O2D-CGD-CBD	4.04	118.45	111.27
29	1S	312	CLA	C4D-CHA-C1A	-4.04	116.33	121.25
30	1N	302	CHL	C3B-C4B-NB	4.04	114.27	110.52
29	01	311	CLA	C3D-C2D-C1D	-4.04	100.31	105.83
29	1R	309	CLA	C2D-C1D-ND	4.04	113.08	110.10
35	1B	619	BCR	C16-C15-C14	4.04	131.76	123.47
29	1g	612	CLA	C3D-C4D-ND	4.04	116.78	110.24
35	1B	619	BCR	C8-C9-C10	4.04	125.14	118.94
35	1A	409	BCR	C37-C22-C21	-4.04	117.26	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1R	305	CHL	C1D-ND-C4D	-4.04	103.46	106.33
29	1R	302	CLA	C3D-C2D-C1D	-4.04	100.32	105.83
30	1S	308	CHL	C3B-C4B-NB	4.04	114.26	110.52
30	1n	601	CHL	CHD-C4C-C3C	-4.04	118.90	124.84
29	1B	607	CLA	C3D-C2D-C1D	-4.04	100.32	105.83
30	02	604	CHL	C3B-C4B-NB	4.04	114.26	110.52
31	1G	616	LUT	C39-C29-C28	4.04	124.44	118.08
30	04	301	CHL	C3B-C4B-NB	4.04	114.26	110.52
30	1g	605	CHL	C3B-C4B-NB	4.04	114.26	110.52
29	1B	615	CLA	C4D-CHA-C1A	-4.04	116.33	121.25
31	1R	315	LUT	C19-C9-C10	-4.04	117.27	122.92
29	06	602	CLA	C3D-C2D-C1D	-4.04	100.32	105.83
29	1c	504	CLA	C4A-NA-C1A	4.04	108.52	106.71
29	1s	311	CLA	C4D-CHA-C1A	-4.04	116.34	121.25
29	1C	501	CLA	CHC-C4B-NB	-4.04	119.98	124.26
29	03	307	CLA	C4D-CHA-C1A	-4.04	116.34	121.25
30	1G	605	CHL	C3B-C4B-NB	4.04	114.26	110.52
29	09	303	CLA	C3D-C4D-ND	4.04	116.77	110.24
29	1S	313	CLA	CHB-C1B-NB	-4.03	119.99	124.26
29	1c	515	CLA	C3D-C2D-C1D	-4.03	100.33	105.83
29	04	312	CLA	CHD-C1D-ND	-4.03	120.75	124.45
30	02	607	CHL	CHD-C4C-C3C	-4.03	118.91	124.84
29	1b	608	CLA	CHC-C1C-C2C	-4.03	115.53	126.73
30	07	305	CHL	C3B-C4B-NB	4.03	114.26	110.52
29	06	610	CLA	C3D-C2D-C1D	-4.03	100.33	105.83
29	1N	311	CLA	O2D-CGD-CBD	4.03	118.43	111.27
30	06	603	CHL	C2D-C1D-ND	4.03	113.07	110.10
29	05	302	CLA	C3D-C2D-C1D	-4.03	100.33	105.83
30	02	607	CHL	C3B-C4B-NB	4.03	114.25	110.52
29	03	309	CLA	C4D-CHA-C1A	-4.03	116.35	121.25
30	05	306	CHL	C1D-ND-C4D	-4.03	103.47	106.33
29	01	309	CLA	C3D-C2D-C1D	-4.03	100.33	105.83
29	1R	306	CLA	C4D-CHA-C1A	-4.03	116.35	121.25
29	1R	311	CLA	CHC-C4B-NB	-4.03	119.99	124.26
29	1N	314	CLA	C1C-C2C-C3C	-4.03	102.72	106.96
29	1c	509	CLA	CHD-C1D-ND	-4.03	120.75	124.45
30	1g	609	CHL	CHD-C4C-C3C	-4.02	118.92	124.84
30	07	304	CHL	C2D-C1D-ND	4.02	113.07	110.10
31	1n	615	LUT	C15-C35-C34	4.02	131.72	123.47
29	1c	503	CLA	C3D-C2D-C1D	-4.02	100.34	105.83
29	1D	402	CLA	C3D-C2D-C1D	-4.02	100.34	105.83
30	1G	607	CHL	C2D-C1D-ND	4.02	113.07	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	608	CHL	C1D-ND-C4D	-4.02	103.48	106.33
30	1G	601	CHL	C1D-ND-C4D	-4.02	103.48	106.33
29	1r	311	CLA	CHD-C1D-ND	-4.02	120.76	124.45
35	1H	101	BCR	C37-C22-C21	-4.02	117.29	122.92
29	1B	605	CLA	C3D-C4D-ND	4.02	116.74	110.24
29	1b	604	CLA	C1C-C2C-C3C	-4.02	102.73	106.96
29	1n	612	CLA	C3D-C2D-C1D	-4.02	100.35	105.83
29	08	307	CLA	C3D-C2D-C1D	-4.02	100.35	105.83
29	1b	610	CLA	CHD-C1D-ND	-4.02	120.76	124.45
30	06	605	CHL	C3B-C4B-NB	4.02	114.24	110.52
29	04	308	CLA	C3D-C2D-C1D	-4.02	100.35	105.83
35	04	313	BCR	C34-C9-C10	-4.02	117.30	122.92
29	1N	311	CLA	C3D-C2D-C1D	-4.01	100.35	105.83
29	02	612	CLA	C2D-C1D-ND	4.01	113.06	110.10
29	1b	605	CLA	CHC-C1C-C2C	-4.01	115.58	126.73
30	01	305	CHL	C1D-ND-C4D	-4.01	103.48	106.33
30	07	304	CHL	C3B-C4B-NB	4.01	114.24	110.52
29	1c	511	CLA	O2D-CGD-CBD	4.01	118.39	111.27
29	1c	511	CLA	C3D-C2D-C1D	-4.01	100.36	105.83
29	1D	401	CLA	C1D-CHD-C4C	-4.01	117.41	126.06
30	07	306	CHL	C3B-C4B-NB	4.01	114.23	110.52
29	05	301	CLA	C3D-C2D-C1D	-4.01	100.36	105.83
29	02	610	CLA	C3D-C2D-C1D	-4.01	100.36	105.83
29	1N	312	CLA	C3D-C2D-C1D	-4.01	100.36	105.83
29	1r	302	CLA	C4D-CHA-C1A	-4.01	116.37	121.25
30	06	603	CHL	C3B-C4B-NB	4.01	114.23	110.52
29	1B	602	CLA	C3D-C4D-ND	4.01	116.72	110.24
29	08	310	CLA	C3D-C2D-C1D	-4.01	100.36	105.83
30	1r	307	CHL	C3B-C4B-NB	4.01	114.23	110.52
29	03	306	CLA	C4D-CHA-C1A	-4.01	116.37	121.25
29	1G	611	CLA	C3D-C4D-ND	4.01	116.72	110.24
29	1C	512	CLA	C3D-C2D-C1D	-4.00	100.37	105.83
29	1G	603	CLA	CMB-C2B-C1B	4.00	131.47	125.37
29	1c	509	CLA	CHB-C1B-NB	-4.00	120.02	124.26
29	00	303	CLA	C3D-C2D-C1D	-4.00	100.37	105.83
29	09	301	CLA	C3D-C2D-C1D	-4.00	100.37	105.83
30	03	311	CHL	C2D-C1D-ND	4.00	113.05	110.10
29	1D	402	CLA	O2D-CGD-CBD	4.00	118.38	111.27
29	1R	312	CLA	O2D-CGD-CBD	4.00	118.38	111.27
35	1b	601	BCR	C21-C20-C19	4.00	135.71	123.22
29	06	608	CLA	C3D-C2D-C1D	-4.00	100.37	105.83
29	01	308	CLA	O2D-CGD-O1D	-4.00	116.02	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	1j	102	LHG	O7-C7-C8	4.00	120.12	111.50
29	1D	404	CLA	C3D-C2D-C1D	-4.00	100.37	105.83
29	1b	614	CLA	C3D-C4D-ND	4.00	116.71	110.24
29	02	609	CLA	C4D-CHA-C1A	-4.00	116.38	121.25
29	1c	504	CLA	C3D-C4D-ND	4.00	116.71	110.24
30	02	604	CHL	C1D-ND-C4D	-4.00	103.49	106.33
29	1S	314	CLA	C1C-C2C-C3C	-4.00	102.75	106.96
35	1B	618	BCR	C37-C22-C21	-4.00	117.32	122.92
31	1n	615	LUT	C19-C9-C10	-4.00	117.33	122.92
35	1B	630	BCR	C34-C9-C10	-4.00	117.33	122.92
30	1S	309	CHL	CAC-C3C-C4C	4.00	130.00	124.81
30	1r	305	CHL	CHD-C4C-C3C	-4.00	118.97	124.84
29	02	602	CLA	CHD-C1D-ND	-3.99	120.78	124.45
29	1c	504	CLA	C3B-C4B-NB	3.99	114.22	110.52
30	08	305	CHL	C3B-C4B-NB	3.99	114.22	110.52
29	1A	407	CLA	C1C-C2C-C3C	-3.99	102.76	106.96
29	1n	613	CLA	O2D-CGD-CBD	3.99	118.36	111.27
30	1s	308	CHL	CAC-C3C-C4C	3.99	129.99	124.81
29	1N	315	CLA	C4D-CHA-C1A	-3.99	116.39	121.25
30	05	315	CHL	C2D-C1D-ND	3.99	113.05	110.10
30	1G	606	CHL	C3B-C4B-NB	3.99	114.22	110.52
30	04	304	CHL	C2D-C1D-ND	3.99	113.04	110.10
29	1B	602	CLA	C4D-CHA-C1A	-3.99	116.39	121.25
29	1b	604	CLA	C3D-C4D-ND	3.99	116.69	110.24
31	1R	315	LUT	C32-C33-C34	3.99	125.06	118.94
29	1s	314	CLA	CHD-C1D-ND	-3.99	120.79	124.45
29	1r	303	CLA	C3D-C2D-C1D	-3.99	100.39	105.83
29	1c	511	CLA	CHC-C1C-C2C	-3.99	115.65	126.73
29	07	301	CLA	C3D-C2D-C1D	-3.99	100.39	105.83
29	08	309	CLA	CHD-C1D-ND	-3.99	120.79	124.45
29	09	311	CLA	C4D-CHA-C1A	-3.99	116.40	121.25
30	08	302	CHL	C3B-C4B-NB	3.99	114.21	110.52
29	07	307	CLA	C3D-C2D-C1D	-3.98	100.39	105.83
29	1R	312	CLA	C4D-CHA-C1A	-3.98	116.40	121.25
29	1S	314	CLA	C4D-CHA-C1A	-3.98	116.40	121.25
29	1b	611	CLA	CHC-C1C-C2C	-3.98	115.66	126.73
29	07	310	CLA	C3D-C2D-C1D	-3.98	100.39	105.83
29	1r	314	CLA	C3D-C2D-C1D	-3.98	100.39	105.83
30	06	604	CHL	C3B-C4B-NB	3.98	114.21	110.52
29	1S	310	CLA	C3D-C2D-C1D	-3.98	100.40	105.83
29	1b	603	CLA	C3D-C4D-ND	3.98	116.68	110.24
29	1B	601	CLA	C3D-C2D-C1D	-3.98	100.40	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	312	CLA	C3D-C2D-C1D	-3.98	100.40	105.83
29	1B	609	CLA	C1C-C2C-C3C	-3.98	102.77	106.96
29	1n	611	CLA	C3D-C4D-ND	3.98	116.68	110.24
29	06	611	CLA	C4D-CHA-C1A	-3.98	116.41	121.25
35	1A	409	BCR	C34-C9-C10	-3.98	117.35	122.92
29	1C	513	CLA	O2D-CGD-CBD	3.98	118.34	111.27
30	00	305	CHL	CHD-C4C-C3C	-3.98	119.00	124.84
29	05	308	CLA	C3D-C2D-C1D	-3.98	100.41	105.83
29	1r	310	CLA	C4D-CHA-C1A	-3.98	116.41	121.25
29	03	309	CLA	C3D-C2D-C1D	-3.98	100.41	105.83
29	02	611	CLA	C3D-C2D-C1D	-3.97	100.41	105.83
29	1N	304	CLA	C3D-C2D-C1D	-3.97	100.41	105.83
29	1c	509	CLA	C3D-C2D-C1D	-3.97	100.41	105.83
29	00	301	CLA	CMC-C2C-C1C	3.97	131.09	125.04
30	00	304	CHL	C3B-C4B-NB	3.97	114.20	110.52
29	04	312	CLA	C3D-C2D-C1D	-3.97	100.41	105.83
29	1N	314	CLA	CHC-C1C-C2C	-3.97	115.69	126.73
29	08	310	CLA	C4D-CHA-C1A	-3.97	116.41	121.25
29	08	308	CLA	C1C-C2C-C3C	-3.97	102.78	106.96
29	1C	508	CLA	C3B-C2B-C1B	-3.97	102.37	107.16
29	1s	313	CLA	C3D-C2D-C1D	-3.97	100.41	105.83
29	1b	613	CLA	C4-C3-C5	3.97	121.95	115.27
30	01	304	CHL	C3B-C4B-NB	3.97	114.20	110.52
29	05	309	CLA	CHD-C1D-ND	-3.97	120.81	124.45
29	1C	506	CLA	C3D-C4D-ND	3.97	116.66	110.24
29	03	310	CLA	C4D-CHA-C1A	-3.97	116.42	121.25
29	1B	604	CLA	C3D-C2D-C1D	-3.97	100.42	105.83
29	07	312	CLA	C4D-CHA-C1A	-3.97	116.42	121.25
30	07	311	CHL	CMB-C2B-C1B	3.97	131.41	125.37
29	1B	612	CLA	C3D-C4D-ND	3.97	116.65	110.24
30	1S	308	CHL	CHD-C4C-C3C	-3.96	119.01	124.84
30	1N	308	CHL	C3B-C4B-NB	3.96	114.19	110.52
29	1c	506	CLA	C3D-C2D-C1D	-3.96	100.42	105.83
30	00	304	CHL	C1D-ND-C4D	-3.96	103.52	106.33
30	1G	605	CHL	C1D-ND-C4D	-3.96	103.52	106.33
29	04	314	CLA	CHD-C1D-ND	-3.96	120.81	124.45
29	1g	610	CLA	C3D-C2D-C1D	-3.96	100.42	105.83
29	1N	305	CLA	C4D-CHA-C1A	-3.96	116.43	121.25
29	1A	404	CLA	CHD-C1D-ND	-3.96	120.81	124.45
29	1s	305	CLA	C4D-CHA-C1A	-3.96	116.43	121.25
29	1N	315	CLA	C3D-C2D-C1D	-3.96	100.43	105.83
35	1b	619	BCR	C34-C9-C10	-3.96	117.38	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	613	CLA	C3D-C2D-C1D	-3.96	100.43	105.83
35	1d	409	BCR	C37-C22-C21	-3.96	117.38	122.92
29	09	309	CLA	C3D-C2D-C1D	-3.96	100.43	105.83
29	1d	407	CLA	C3D-C2D-C1D	-3.96	100.43	105.83
29	1C	502	CLA	C1C-C2C-C3C	-3.96	102.80	106.96
30	00	306	CHL	O2D-CGD-CBD	3.96	118.30	111.27
29	1G	610	CLA	CMC-C2C-C1C	3.96	131.06	125.04
29	1G	610	CLA	C1C-C2C-C3C	-3.96	102.80	106.96
29	1r	302	CLA	C3D-C2D-C1D	-3.96	100.43	105.83
29	08	308	CLA	C3D-C2D-C1D	-3.95	100.43	105.83
29	1r	311	CLA	C3D-C2D-C1D	-3.95	100.43	105.83
30	03	303	CHL	CMB-C2B-C1B	3.95	131.39	125.37
29	00	318	CLA	C1C-C2C-C3C	-3.95	102.80	106.96
35	1b	601	BCR	C19-C18-C17	3.95	125.01	118.94
29	04	307	CLA	C3D-C2D-C1D	-3.95	100.44	105.83
29	00	301	CLA	CHC-C4B-NB	-3.95	120.07	124.26
30	06	606	CHL	C3B-C4B-NB	3.95	114.18	110.52
29	1g	613	CLA	C1C-C2C-C3C	-3.95	102.80	106.96
29	1C	502	CLA	CMB-C2B-C1B	3.95	131.38	125.37
30	1n	601	CHL	C2D-C1D-ND	3.95	113.01	110.10
29	03	301	CLA	CHD-C1D-ND	-3.95	120.83	124.45
29	01	313	CLA	C3D-C2D-C1D	-3.95	100.45	105.83
29	1B	605	CLA	C3B-C4B-NB	3.95	114.17	110.52
29	1c	513	CLA	CHB-C1B-NB	-3.94	120.08	124.26
29	1n	614	CLA	C3D-C2D-C1D	-3.94	100.45	105.83
29	1G	613	CLA	C4D-CHA-C1A	-3.94	116.45	121.25
29	03	301	CLA	C3D-C2D-C1D	-3.94	100.45	105.83
29	06	608	CLA	C4D-CHA-C1A	-3.94	116.45	121.25
29	07	308	CLA	C3D-C2D-C1D	-3.94	100.45	105.83
29	1G	610	CLA	C4D-CHA-C1A	-3.94	116.45	121.25
29	1B	614	CLA	C3D-C2D-C1D	-3.94	100.45	105.83
30	04	304	CHL	C3B-C4B-NB	3.94	114.17	110.52
29	1n	611	CLA	C3D-C2D-C1D	-3.94	100.45	105.83
30	1N	306	CHL	C1D-ND-C4D	-3.94	103.53	106.33
31	1S	317	LUT	C19-C9-C8	3.94	124.29	118.08
29	09	303	CLA	C3D-C2D-C1D	-3.94	100.45	105.83
30	1N	307	CHL	C2D-C1D-ND	3.94	113.01	110.10
29	1B	616	CLA	CHC-C1C-C2C	-3.94	115.79	126.73
29	1C	506	CLA	CHD-C1D-ND	-3.94	120.83	124.45
29	1r	310	CLA	C3D-C2D-C1D	-3.94	100.46	105.83
29	00	310	CLA	C4D-CHA-C1A	-3.94	116.46	121.25
29	1B	606	CLA	C3B-C2B-C1B	-3.94	102.41	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	511	CLA	C1D-CHD-C4C	-3.94	117.57	126.06
29	03	306	CLA	CHC-C4B-NB	-3.94	120.09	124.26
29	05	310	CLA	CHD-C1D-ND	-3.94	120.84	124.45
29	1G	603	CLA	C3D-C2D-C1D	-3.94	100.46	105.83
29	1g	602	CLA	C1C-C2C-C3C	-3.94	102.82	106.96
29	1c	508	CLA	C3D-C2D-C1D	-3.93	100.46	105.83
29	1b	607	CLA	CHC-C4B-NB	-3.93	120.09	124.26
29	08	309	CLA	CHC-C1C-C2C	-3.93	115.80	126.73
29	1B	605	CLA	CHC-C1C-C2C	-3.93	115.80	126.73
29	00	312	CLA	C4D-CHA-C1A	-3.93	116.46	121.25
29	09	301	CLA	C4D-CHA-C1A	-3.93	116.46	121.25
29	04	314	CLA	CHC-C4B-NB	-3.93	120.09	124.26
30	1R	303	CHL	CAC-C3C-C4C	3.93	129.91	124.81
29	07	312	CLA	C3D-C2D-C1D	-3.93	100.47	105.83
29	1g	614	CLA	C3D-C2D-C1D	-3.93	100.47	105.83
29	01	311	CLA	C4D-CHA-C1A	-3.93	116.46	121.25
29	1C	504	CLA	C2D-C1D-ND	3.93	113.00	110.10
29	1C	505	CLA	C3D-C4D-ND	3.93	116.60	110.24
29	1G	611	CLA	CHC-C1C-C2C	-3.93	115.81	126.73
46	1g	617	XAT	C11-C12-C13	-3.93	115.38	126.42
29	1C	501	CLA	C3D-C2D-C1D	-3.93	100.47	105.83
29	1g	612	CLA	C3D-C2D-C1D	-3.93	100.47	105.83
29	05	303	CLA	C3D-C2D-C1D	-3.93	100.47	105.83
29	1n	602	CLA	C4D-CHA-C1A	-3.92	116.47	121.25
35	1J	101	BCR	C23-C22-C21	3.92	124.96	118.94
29	1b	605	CLA	C1C-C2C-C3C	-3.92	102.83	106.96
46	1G	617	XAT	C40-C33-C32	3.92	124.26	118.08
29	1b	606	CLA	C3B-C4B-NB	3.92	114.15	110.52
29	1c	514	CLA	C4D-CHA-C1A	-3.92	116.48	121.25
35	1b	601	BCR	C36-C18-C17	-3.92	117.43	122.92
29	1B	616	CLA	C3D-C4D-ND	3.92	116.58	110.24
29	03	307	CLA	CHD-C1D-ND	-3.92	120.85	124.45
30	1G	609	CHL	C2D-C1D-ND	3.92	112.99	110.10
29	1C	508	CLA	O2D-CGD-CBD	3.92	118.23	111.27
29	1S	310	CLA	C1C-C2C-C3C	-3.92	102.84	106.96
30	1G	608	CHL	C3B-C4B-NB	3.92	114.15	110.52
29	02	613	CLA	C4D-CHA-C1A	-3.92	116.48	121.25
30	06	603	CHL	C1D-ND-C4D	-3.92	103.55	106.33
30	07	311	CHL	C2D-C1D-ND	3.92	112.99	110.10
29	1c	505	CLA	C3D-C4D-ND	3.92	116.58	110.24
29	1C	509	CLA	C4A-NA-C1A	3.92	108.47	106.71
29	1R	306	CLA	C3D-C2D-C1D	-3.92	100.49	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1I	102	BCR	C34-C9-C10	-3.92	117.44	122.92
30	00	308	CHL	C1D-ND-C4D	-3.92	103.55	106.33
30	01	304	CHL	C1D-ND-C4D	-3.92	103.55	106.33
30	06	604	CHL	C1D-ND-C4D	-3.92	103.55	106.33
29	1c	511	CLA	C3B-C2B-C1B	-3.92	102.44	107.16
29	1c	506	CLA	C4D-CHA-C1A	-3.92	116.48	121.25
29	00	318	CLA	CAC-C3C-C4C	3.92	129.89	124.81
29	1B	605	CLA	C3D-C2D-C1D	-3.91	100.49	105.83
30	04	305	CHL	C1D-ND-C4D	-3.91	103.56	106.33
29	1G	604	CLA	C3D-C2D-C1D	-3.91	100.49	105.83
29	1b	615	CLA	C3D-C2D-C1D	-3.91	100.49	105.83
29	05	309	CLA	C4D-CHA-C1A	-3.91	116.49	121.25
30	1G	607	CHL	O2D-CGD-CBD	3.91	118.22	111.27
30	1N	310	CHL	C2D-C1D-ND	3.91	112.99	110.10
29	1D	402	CLA	C4D-CHA-C1A	-3.91	116.49	121.25
29	1B	608	CLA	C1D-CHD-C4C	-3.91	117.62	126.06
29	1s	307	CLA	C3D-C2D-C1D	-3.91	100.50	105.83
30	05	306	CHL	C3B-C4B-NB	3.91	114.14	110.52
30	1n	601	CHL	C3B-C4B-NB	3.91	114.14	110.52
29	1N	305	CLA	C3D-C2D-C1D	-3.91	100.50	105.83
30	1g	601	CHL	C2D-C1D-ND	3.91	112.98	110.10
29	1g	611	CLA	C3D-C2D-C1D	-3.91	100.50	105.83
29	1g	613	CLA	C3D-C2D-C1D	-3.91	100.50	105.83
29	1s	305	CLA	C3D-C2D-C1D	-3.91	100.50	105.83
30	1R	305	CHL	CAA-C2A-C3A	-3.91	106.98	116.10
30	04	302	CHL	C1D-ND-C4D	-3.91	103.56	106.33
29	1B	608	CLA	C3D-C4D-ND	3.91	116.56	110.24
30	1r	305	CHL	CAC-C3C-C4C	3.91	129.88	124.81
29	1c	508	CLA	C3B-C2B-C1B	-3.91	102.44	107.16
29	1b	610	CLA	C3B-C4B-NB	3.91	114.14	110.52
29	1b	603	CLA	C4-C3-C5	3.90	121.84	115.27
29	1R	307	CLA	CHD-C1D-ND	-3.90	120.87	124.45
30	05	315	CHL	C3B-C4B-NB	3.90	114.14	110.52
29	1R	311	CLA	C3D-C2D-C1D	-3.90	100.50	105.83
31	1g	616	LUT	C19-C9-C10	-3.90	117.45	122.92
29	1N	311	CLA	CHC-C4B-NB	-3.90	120.12	124.26
29	1C	508	CLA	CAC-C3C-C4C	3.90	129.88	124.81
30	03	303	CHL	CAC-C3C-C4C	3.90	129.88	124.81
29	1B	609	CLA	C3B-C4B-NB	3.90	114.14	110.52
46	1g	619	XAT	C26-C27-C28	-3.90	117.74	125.99
29	03	312	CLA	C3D-C2D-C1D	-3.90	100.50	105.83
30	09	307	CHL	C3B-C4B-NB	3.90	114.14	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1S	316	CLA	C3D-C2D-C1D	-3.90	100.51	105.83
29	1b	616	CLA	C1D-CHD-C4C	-3.90	117.64	126.06
30	1G	606	CHL	CHD-C4C-C3C	-3.90	119.11	124.84
29	06	610	CLA	C4D-CHA-C1A	-3.90	116.50	121.25
29	1b	612	CLA	C3D-C2D-C1D	-3.90	100.51	105.83
34	1B	627	DGD	O6D-C5D-C6D	3.90	114.54	106.67
29	1C	503	CLA	C3D-C4D-ND	3.90	116.55	110.24
29	1n	610	CLA	CHC-C1C-C2C	-3.90	115.90	126.73
30	1N	306	CHL	C3B-C4B-NB	3.90	114.13	110.52
29	04	309	CLA	CHC-C4B-NB	-3.90	120.13	124.26
29	1C	510	CLA	C3D-C2D-C1D	-3.90	100.51	105.83
29	02	610	CLA	C4D-CHA-C1A	-3.90	116.50	121.25
29	04	312	CLA	C4D-CHA-C1A	-3.90	116.50	121.25
30	1G	607	CHL	C1D-ND-C4D	-3.90	103.57	106.33
29	1b	611	CLA	C1D-CHD-C4C	-3.90	117.65	126.06
29	02	608	CLA	C4D-CHA-C1A	-3.90	116.51	121.25
30	08	302	CHL	C1D-ND-C4D	-3.90	103.57	106.33
29	1R	302	CLA	C1C-C2C-C3C	-3.90	102.86	106.96
29	1s	316	CLA	CAC-C3C-C4C	3.90	129.87	124.81
35	1b	620	BCR	C34-C9-C10	-3.90	117.47	122.92
29	1R	308	CLA	CHD-C1D-ND	-3.90	120.87	124.45
29	1b	612	CLA	CHC-C1C-C2C	-3.90	115.91	126.73
29	1C	507	CLA	CHD-C1D-ND	-3.89	120.88	124.45
29	03	306	CLA	C1C-C2C-C3C	-3.89	102.86	106.96
35	1B	618	BCR	C34-C9-C10	-3.89	117.47	122.92
30	02	603	CHL	C1D-ND-C4D	-3.89	103.57	106.33
29	1A	407	CLA	CHD-C1D-ND	-3.89	120.88	124.45
30	02	607	CHL	C2D-C1D-ND	3.89	112.97	110.10
29	09	309	CLA	O2D-CGD-CBD	3.89	118.19	111.27
35	1J	101	BCR	C34-C9-C10	-3.89	117.47	122.92
35	1c	516	BCR	C37-C22-C21	-3.89	117.47	122.92
29	1C	512	CLA	C1C-C2C-C3C	-3.89	102.86	106.96
29	03	312	CLA	C4D-CHA-C1A	-3.89	116.51	121.25
29	09	312	CLA	C4D-CHA-C1A	-3.89	116.52	121.25
29	1g	604	CLA	C3D-C2D-C1D	-3.89	100.52	105.83
35	1c	516	BCR	C34-C9-C10	-3.89	117.47	122.92
29	1g	613	CLA	C4D-CHA-C1A	-3.89	116.52	121.25
29	00	310	CLA	CHD-C1D-ND	-3.89	120.88	124.45
35	1B	618	BCR	C16-C15-C14	3.89	131.44	123.47
30	05	313	CHL	CAC-C3C-C4C	3.89	129.85	124.81
29	1s	306	CLA	CHC-C1C-C2C	-3.89	115.94	126.73
29	1C	508	CLA	C3D-C4D-ND	3.89	116.52	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	07	312	CLA	CHD-C1D-ND	-3.89	120.88	124.45
35	1a	409	BCR	C34-C9-C10	-3.89	117.48	122.92
29	1N	303	CLA	CHD-C1D-ND	-3.88	120.88	124.45
29	03	310	CLA	C3D-C2D-C1D	-3.88	100.53	105.83
29	1b	610	CLA	CHC-C1C-C2C	-3.88	115.94	126.73
29	1C	502	CLA	C3D-C4D-ND	3.88	116.52	110.24
30	1G	609	CHL	CHD-C4C-C3C	-3.88	119.13	124.84
29	1n	603	CLA	C3D-C2D-C1D	-3.88	100.53	105.83
29	03	308	CLA	C3D-C2D-C1D	-3.88	100.53	105.83
29	1N	303	CLA	C2D-C1D-ND	3.88	112.96	110.10
30	1G	609	CHL	C3B-C4B-NB	3.88	114.11	110.52
29	1r	308	CLA	O2D-CGD-CBD	3.88	118.16	111.27
29	07	308	CLA	C4D-CHA-C1A	-3.88	116.53	121.25
29	1r	311	CLA	C4D-CHA-C1A	-3.88	116.53	121.25
29	07	307	CLA	C4D-CHA-C1A	-3.88	116.53	121.25
29	1C	505	CLA	CHC-C1C-C2C	-3.88	115.96	126.73
29	1G	602	CLA	CHD-C1D-ND	-3.88	120.89	124.45
29	1C	507	CLA	CHC-C1C-C2C	-3.88	115.96	126.73
29	1C	501	CLA	C4D-CHA-C1A	-3.88	116.53	121.25
29	1c	514	CLA	C3D-C2D-C1D	-3.88	100.54	105.83
29	1D	404	CLA	C3D-C4D-ND	3.88	116.51	110.24
29	08	309	CLA	C4D-CHA-C1A	-3.88	116.53	121.25
34	1c	518	DGD	O2G-C1B-C2B	3.88	119.85	111.50
29	1c	510	CLA	C3D-C2D-C1D	-3.88	100.54	105.83
29	1S	313	CLA	C4D-CHA-C1A	-3.88	116.53	121.25
29	1B	611	CLA	CHC-C1C-C2C	-3.88	115.97	126.73
29	1C	511	CLA	C1D-CHD-C4C	-3.87	117.70	126.06
30	03	303	CHL	C2D-C1D-ND	3.87	112.96	110.10
30	09	308	CHL	C2D-C1D-ND	3.87	112.96	110.10
29	1b	603	CLA	C3B-C2B-C1B	-3.87	102.49	107.16
29	09	312	CLA	C3D-C2D-C1D	-3.87	100.55	105.83
29	1a	408	CLA	C4D-CHA-C1A	-3.87	116.54	121.25
29	1d	406	CLA	CHD-C1D-ND	-3.87	120.90	124.45
34	1c	520	DGD	O2G-C1B-C2B	3.87	119.84	111.50
29	1b	609	CLA	C3B-C2B-C1B	-3.87	102.49	107.16
29	1R	309	CLA	C3D-C4D-ND	3.87	116.50	110.24
30	1r	307	CHL	C1D-ND-C4D	-3.87	103.59	106.33
29	1S	313	CLA	C3D-C2D-C1D	-3.87	100.55	105.83
30	02	605	CHL	C3D-C2D-C1D	-3.87	100.55	105.83
29	1S	316	CLA	C4D-CHA-C1A	-3.87	116.54	121.25
40	1E	102	PL9	C30-C29-C31	3.87	121.78	115.27
29	1c	503	CLA	C4D-CHA-C1A	-3.87	116.54	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	03	307	CLA	C3D-C2D-C1D	-3.87	100.56	105.83
30	00	306	CHL	CAC-C3C-C4C	3.87	129.82	124.81
31	1s	317	LUT	C39-C29-C30	-3.86	117.51	122.92
46	1g	617	XAT	C40-C33-C32	3.86	124.17	118.08
29	01	301	CLA	CHB-C4A-NA	3.86	129.86	124.51
30	1g	609	CHL	C1D-ND-C4D	-3.86	103.59	106.33
29	1G	614	CLA	C3D-C2D-C1D	-3.86	100.56	105.83
29	1R	310	CLA	C3D-C2D-C1D	-3.86	100.56	105.83
30	1G	607	CHL	CHB-C4A-NA	3.86	129.85	124.51
29	04	310	CLA	CMD-C2D-C3D	-3.86	118.73	127.61
29	1b	616	CLA	CHC-C4B-NB	-3.86	120.17	124.26
30	01	303	CHL	C3B-C4B-NB	3.86	114.10	110.52
29	1C	508	CLA	CMB-C2B-C1B	3.86	131.25	125.37
30	1S	307	CHL	C2D-C1D-ND	3.86	112.95	110.10
29	05	302	CLA	C1D-CHD-C4C	-3.86	117.73	126.06
29	04	307	CLA	C4D-CHA-C1A	-3.86	116.55	121.25
29	08	308	CLA	C4D-CHA-C1A	-3.86	116.55	121.25
30	04	301	CHL	C2D-C1D-ND	3.86	112.95	110.10
29	1b	616	CLA	CHD-C1D-ND	-3.86	120.91	124.45
30	06	606	CHL	C1D-ND-C4D	-3.86	103.59	106.33
30	07	306	CHL	C1D-ND-C4D	-3.86	103.59	106.33
29	1B	612	CLA	C3D-C2D-C1D	-3.86	100.57	105.83
31	09	314	LUT	C15-C35-C34	3.86	131.37	123.47
30	01	306	CHL	C2D-C1D-ND	3.86	112.95	110.10
40	1a	412	PL9	C7-C8-C9	-3.86	120.37	126.79
31	00	314	LUT	C19-C9-C10	-3.86	117.52	122.92
29	1s	316	CLA	C4D-CHA-C1A	-3.86	116.56	121.25
29	08	307	CLA	C4D-CHA-C1A	-3.85	116.56	121.25
29	1C	502	CLA	CAC-C3C-C4C	3.85	129.81	124.81
29	09	311	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
30	1s	310	CHL	C3B-C4B-NB	3.85	114.09	110.52
29	04	310	CLA	C3D-C2D-C1D	-3.85	100.57	105.83
35	1h	101	BCR	C15-C16-C17	3.85	131.37	123.47
29	1b	604	CLA	C4D-CHA-C1A	-3.85	116.56	121.25
29	1b	616	CLA	CHC-C1C-C2C	-3.85	116.03	126.73
31	1s	318	LUT	C8-C9-C10	3.85	124.85	118.94
29	1c	510	CLA	CHC-C1C-C2C	-3.85	116.03	126.73
30	1g	607	CHL	O2D-CGD-CBD	3.85	118.11	111.27
29	08	311	CLA	C3D-C2D-C1D	-3.85	100.58	105.83
30	06	605	CHL	C1D-ND-C4D	-3.85	103.60	106.33
29	1B	609	CLA	CHC-C1C-C2C	-3.85	116.04	126.73
29	1s	306	CLA	C4D-CHA-C1A	-3.85	116.57	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1n	609	CHL	C3B-C4B-NB	3.85	114.08	110.52
29	1a	408	CLA	C3D-C2D-C1D	-3.85	100.58	105.83
29	09	311	CLA	CHC-C4B-NB	-3.85	120.19	124.26
31	1S	318	LUT	C19-C9-C10	-3.85	117.53	122.92
31	01	315	LUT	C35-C15-C14	3.85	131.35	123.47
30	1r	313	CHL	C3B-C4B-NB	3.85	114.08	110.52
29	1g	612	CLA	CHC-C1C-C2C	-3.84	116.06	126.73
30	1N	308	CHL	C1D-ND-C4D	-3.84	103.61	106.33
35	1b	618	BCR	C34-C9-C10	-3.84	117.54	122.92
30	1R	303	CHL	CHD-C4C-C3C	-3.84	119.19	124.84
29	1c	510	CLA	C1D-CHD-C4C	-3.84	117.77	126.06
31	01	315	LUT	C19-C9-C8	3.84	124.13	118.08
29	04	311	CLA	C4D-CHA-C1A	-3.84	116.58	121.25
29	01	311	CLA	CHC-C4B-NB	-3.84	120.19	124.26
29	05	303	CLA	C4D-CHA-C1A	-3.84	116.58	121.25
29	09	302	CLA	CHB-C1B-NB	-3.84	120.19	124.26
29	1c	509	CLA	CMB-C2B-C1B	3.84	131.21	125.37
30	03	303	CHL	CHD-C4C-C3C	-3.84	119.20	124.84
29	1s	312	CLA	C3D-C2D-C1D	-3.84	100.59	105.83
29	1b	613	CLA	C1C-C2C-C3C	-3.84	102.92	106.96
40	1E	102	PL9	C25-C24-C26	3.84	121.72	115.27
29	1C	509	CLA	CHC-C1C-C2C	-3.84	116.08	126.73
29	08	311	CLA	CHC-C4B-NB	-3.84	120.20	124.26
29	01	312	CLA	C3D-C2D-C1D	-3.83	100.60	105.83
30	05	305	CHL	CAC-C3C-C4C	3.83	129.78	124.81
29	1R	314	CLA	C3D-C2D-C1D	-3.83	100.60	105.83
30	03	311	CHL	C3B-C4B-NB	3.83	114.07	110.52
29	07	309	CLA	C4D-CHA-C1A	-3.83	116.58	121.25
30	03	304	CHL	CHB-C4A-NA	3.83	129.81	124.51
30	08	302	CHL	CAA-C2A-C3A	-3.83	107.16	116.10
30	07	303	CHL	C1D-ND-C4D	-3.83	103.61	106.33
29	01	309	CLA	C4D-CHA-C1A	-3.83	116.59	121.25
29	1r	309	CLA	C1C-C2C-C3C	-3.83	102.93	106.96
29	1B	613	CLA	C3D-C4D-ND	3.83	116.43	110.24
35	1H	101	BCR	C34-C9-C10	-3.83	117.56	122.92
29	02	602	CLA	C2D-C1D-ND	3.83	112.92	110.10
29	1n	602	CLA	C3D-C2D-C1D	-3.83	100.61	105.83
29	1n	614	CLA	C4D-CHA-C1A	-3.83	116.59	121.25
31	01	315	LUT	C30-C31-C32	-3.82	111.28	123.22
30	1g	608	CHL	C1D-ND-C4D	-3.82	103.62	106.33
30	03	304	CHL	C3B-C4B-NB	3.82	114.06	110.52
34	1C	517	DGD	O2G-C1B-C2B	3.82	119.74	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	308	CLA	C4D-CHA-C1A	-3.82	116.59	121.25
40	1r	301	PL9	C7-C3-C4	3.82	119.98	116.88
29	1B	613	CLA	CHC-C1C-C2C	-3.82	116.11	126.73
29	00	311	CLA	C1D-CHD-C4C	-3.82	117.81	126.06
30	1R	303	CHL	C3B-C4B-NB	3.82	114.06	110.52
29	1c	503	CLA	CHC-C4B-NB	-3.82	120.21	124.26
30	1r	313	CHL	C1D-ND-C4D	-3.82	103.62	106.33
29	1C	513	CLA	CHD-C1D-ND	-3.82	120.94	124.45
30	08	303	CHL	C3B-C4B-NB	3.82	114.06	110.52
30	05	305	CHL	C1D-ND-C4D	-3.82	103.62	106.33
29	01	307	CLA	C3D-C2D-C1D	-3.82	100.62	105.83
29	09	311	CLA	C3D-C2D-C1D	-3.82	100.62	105.83
29	1n	604	CLA	C3D-C2D-C1D	-3.82	100.62	105.83
29	1s	305	CLA	CMC-C2C-C1C	3.82	130.85	125.04
29	05	311	CLA	C1C-C2C-C3C	-3.82	102.94	106.96
29	1b	612	CLA	C3B-C4B-NB	3.82	114.06	110.52
29	1D	405	CLA	CHC-C4B-NB	-3.82	120.22	124.26
35	1D	406	BCR	C34-C9-C10	-3.81	117.58	122.92
29	1B	610	CLA	C3D-C4D-ND	3.81	116.41	110.24
29	09	311	CLA	CHC-C1C-C2C	-3.81	116.14	126.73
29	1b	602	CLA	C3D-C2D-C1D	-3.81	100.63	105.83
35	1i	101	BCR	C34-C9-C10	-3.81	117.58	122.92
29	1B	610	CLA	C4D-CHA-C1A	-3.81	116.61	121.25
30	03	305	CHL	C1D-ND-C4D	-3.81	103.63	106.33
30	1S	309	CHL	C2D-C1D-ND	3.81	112.91	110.10
29	1S	312	CLA	CHC-C4B-NB	-3.81	120.22	124.26
29	1b	604	CLA	CHC-C1C-C2C	-3.81	116.14	126.73
29	1R	312	CLA	C1C-C2C-C3C	-3.81	102.95	106.96
29	1b	617	CLA	CHC-C1C-C2C	-3.81	116.14	126.73
29	1R	307	CLA	CAC-C3C-C4C	3.81	129.75	124.81
31	1G	615	LUT	C39-C29-C30	-3.81	117.59	122.92
29	07	301	CLA	C4D-CHA-C1A	-3.81	116.62	121.25
30	1s	304	CHL	C1D-ND-C4D	-3.81	103.63	106.33
30	05	313	CHL	C1D-ND-C4D	-3.80	103.63	106.33
29	1C	507	CLA	C1C-C2C-C3C	-3.80	102.96	106.96
29	1S	312	CLA	CHD-C1D-ND	-3.80	120.96	124.45
30	09	306	CHL	C3B-C4B-NB	3.80	114.04	110.52
29	1b	606	CLA	C4D-CHA-C1A	-3.80	116.62	121.25
29	1B	601	CLA	C4-C3-C5	3.80	121.67	115.27
29	1G	612	CLA	C3B-C4B-NB	3.80	114.04	110.52
30	1n	606	CHL	C3B-C4B-NB	3.80	114.04	110.52
30	06	601	CHL	C1D-ND-C4D	-3.80	103.64	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	00	307	CHL	O2D-CGD-CBD	3.80	118.02	111.27
31	09	314	LUT	C19-C9-C10	-3.80	117.60	122.92
46	1g	619	XAT	C40-C33-C34	-3.80	117.60	122.92
29	1S	310	CLA	C4D-CHA-C1A	-3.80	116.63	121.25
40	1e	101	PL9	C15-C14-C16	3.80	120.32	115.98
34	1B	625	DGD	O2G-C1B-C2B	3.80	119.68	111.50
29	00	310	CLA	C3D-C2D-C1D	-3.80	100.65	105.83
34	1C	516	DGD	O2G-C1B-C2B	3.80	119.68	111.50
30	1g	606	CHL	CAC-C3C-C4C	3.80	129.73	124.81
29	00	309	CLA	C3D-C2D-C1D	-3.79	100.65	105.83
29	1A	404	CLA	C1D-CHD-C4C	-3.79	117.87	126.06
29	1g	612	CLA	C4D-CHA-C1A	-3.79	116.63	121.25
30	02	601	CHL	C1D-ND-C4D	-3.79	103.64	106.33
30	1s	310	CHL	C1D-ND-C4D	-3.79	103.64	106.33
30	00	306	CHL	CHB-C4A-NA	3.79	129.75	124.51
29	00	311	CLA	C4D-CHA-C1A	-3.79	116.64	121.25
30	01	305	CHL	C3B-C4B-NB	3.79	114.03	110.52
35	04	313	BCR	C15-C16-C17	3.79	131.24	123.47
29	1C	509	CLA	C3B-C4B-NB	3.79	114.03	110.52
30	04	303	CHL	CAC-C3C-C4C	3.79	129.73	124.81
29	08	312	CLA	C3D-C2D-C1D	-3.79	100.66	105.83
29	1B	611	CLA	C4-C3-C5	3.79	121.64	115.27
29	09	317	CLA	CHD-C1D-ND	-3.79	120.97	124.45
29	1b	605	CLA	C3B-C4B-NB	3.79	114.03	110.52
29	1c	514	CLA	CHC-C1C-C2C	-3.79	116.21	126.73
29	1N	303	CLA	C1C-C2C-C3C	-3.79	102.97	106.96
29	1G	610	CLA	CAC-C3C-C4C	3.79	129.72	124.81
29	1N	314	CLA	C4C-C3C-C2C	-3.79	101.38	106.90
29	09	317	CLA	C2D-C1D-ND	3.79	112.89	110.10
29	1C	507	CLA	C3D-C2D-C1D	-3.79	100.67	105.83
46	1G	617	XAT	C6-C7-C8	-3.79	117.99	125.99
35	1a	409	BCR	C37-C22-C21	-3.78	117.62	122.92
29	1B	611	CLA	CHD-C1D-ND	-3.78	120.98	124.45
30	1r	305	CHL	C2D-C1D-ND	3.78	112.89	110.10
35	1b	601	BCR	C34-C9-C10	-3.78	117.63	122.92
29	04	309	CLA	CHB-C4A-NA	3.78	129.74	124.51
29	1B	602	CLA	CHD-C1D-ND	-3.78	120.98	124.45
30	02	605	CHL	CAC-C3C-C4C	3.78	129.71	124.81
29	05	311	CLA	C2D-C1D-ND	3.78	112.89	110.10
35	1D	406	BCR	C16-C15-C14	3.78	131.21	123.47
30	01	302	CHL	C1D-ND-C4D	-3.78	103.65	106.33
33	1W	102	LHG	O7-C7-C8	3.78	119.64	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1D	406	BCR	C37-C22-C21	-3.77	117.64	122.92
30	1g	608	CHL	C3B-C4B-NB	3.77	114.02	110.52
29	1b	615	CLA	C4D-CHA-C1A	-3.77	116.66	121.25
29	1s	311	CLA	C3D-C2D-C1D	-3.77	100.68	105.83
29	06	607	CLA	C4D-CHA-C1A	-3.77	116.66	121.25
30	1R	313	CHL	C3B-C4B-NB	3.77	114.02	110.52
29	1c	514	CLA	CHD-C1D-ND	-3.77	120.99	124.45
30	08	304	CHL	C1D-ND-C4D	-3.77	103.66	106.33
29	09	302	CLA	C4D-CHA-C1A	-3.77	116.66	121.25
31	1S	317	LUT	C35-C15-C14	3.77	131.20	123.47
29	09	309	CLA	C4D-CHA-C1A	-3.77	116.66	121.25
29	1b	603	CLA	CHC-C1C-C2C	-3.77	116.26	126.73
29	1s	306	CLA	C1D-CHD-C4C	-3.77	117.93	126.06
29	06	602	CLA	C1D-CHD-C4C	-3.77	117.93	126.06
30	01	303	CHL	CAC-C3C-C4C	3.77	129.70	124.81
29	1d	403	CLA	CHC-C4B-NB	-3.77	120.27	124.26
29	09	302	CLA	C2D-C1D-ND	3.77	112.88	110.10
30	00	305	CHL	CAC-C3C-C4C	3.77	129.70	124.81
30	05	315	CHL	CAC-C3C-C4C	3.77	129.70	124.81
29	01	309	CLA	C1C-C2C-C3C	-3.77	103.00	106.96
29	1B	603	CLA	C4D-CHA-C1A	-3.77	116.67	121.25
30	03	302	CHL	C1D-ND-C4D	-3.77	103.66	106.33
35	1B	617	BCR	C37-C22-C21	-3.76	117.65	122.92
29	09	303	CLA	CHC-C1C-C2C	-3.76	116.27	126.73
29	09	301	CLA	C2D-C1D-ND	3.76	112.88	110.10
30	08	305	CHL	C1D-ND-C4D	-3.76	103.66	106.33
29	07	309	CLA	C3D-C2D-C1D	-3.76	100.69	105.83
29	1G	612	CLA	C3D-C2D-C1D	-3.76	100.69	105.83
29	1r	303	CLA	C4D-CHA-C1A	-3.76	116.67	121.25
29	09	310	CLA	CHD-C1D-ND	-3.76	121.00	124.45
35	1j	101	BCR	C34-C9-C10	-3.76	117.65	122.92
30	09	306	CHL	C1D-ND-C4D	-3.76	103.66	106.33
29	1S	313	CLA	C3B-C4B-NB	3.76	114.00	110.52
29	06	602	CLA	C4D-CHA-C1A	-3.76	116.67	121.25
29	1c	504	CLA	C1D-CHD-C4C	-3.76	117.94	126.06
30	1R	305	CHL	CAC-C3C-C4C	3.76	129.69	124.81
34	1B	626	DGD	O2G-C1B-C2B	3.76	119.61	111.50
30	1n	608	CHL	C3B-C4B-NB	3.76	114.00	110.52
30	1s	309	CHL	C3B-C4B-NB	3.76	114.00	110.52
46	1r	316	XAT	C8-C9-C10	3.76	124.71	118.94
29	1G	603	CLA	C4D-CHA-C1A	-3.76	116.67	121.25
30	09	308	CHL	CMB-C2B-C1B	3.76	131.09	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	602	CLA	CHD-C1D-ND	-3.76	121.00	124.45
35	1d	409	BCR	C38-C26-C25	3.76	128.75	124.53
29	1n	610	CLA	CHD-C4C-C3C	-3.76	119.32	124.84
30	1R	304	CHL	C3B-C4B-NB	3.75	114.00	110.52
29	1C	504	CLA	CHC-C4B-NB	-3.75	120.28	124.26
29	00	311	CLA	CHC-C1C-C2C	-3.75	116.31	126.73
30	01	306	CHL	C1D-ND-C4D	-3.75	103.67	106.33
29	1R	307	CLA	CHC-C4B-NB	-3.75	120.29	124.26
29	1C	506	CLA	C2D-C1D-ND	3.75	112.87	110.10
45	1f	101	HEM	C1B-NB-C4B	3.75	108.95	105.07
30	1G	606	CHL	C1D-ND-C4D	-3.75	103.67	106.33
31	1n	615	LUT	C39-C29-C30	-3.75	117.67	122.92
30	00	306	CHL	C3B-C4B-NB	3.75	113.99	110.52
29	1S	315	CLA	C3D-C2D-C1D	-3.75	100.72	105.83
29	1B	614	CLA	C4C-C3C-C2C	-3.75	101.43	106.90
29	00	312	CLA	CHB-C1B-NB	-3.75	120.29	124.26
30	1S	309	CHL	CAA-C2A-C3A	-3.75	107.36	116.10
29	1S	305	CLA	C3D-C2D-C1D	-3.75	100.72	105.83
40	1E	102	PL9	C7-C8-C9	-3.75	120.56	126.79
30	1N	310	CHL	C1D-ND-C4D	-3.74	103.67	106.33
30	1s	308	CHL	C3B-C4B-NB	3.74	113.99	110.52
29	1D	404	CLA	CHD-C1D-ND	-3.74	121.02	124.45
30	1g	605	CHL	C1D-ND-C4D	-3.74	103.68	106.33
30	02	605	CHL	C3B-C4B-NB	3.74	113.99	110.52
35	1a	409	BCR	C15-C16-C17	3.74	131.14	123.47
29	1S	314	CLA	C3D-C2D-C1D	-3.74	100.73	105.83
29	01	307	CLA	C4D-CHA-C1A	-3.74	116.70	121.25
29	1b	611	CLA	CHD-C1D-ND	-3.74	121.02	124.45
30	02	606	CHL	C1D-ND-C4D	-3.74	103.68	106.33
29	05	302	CLA	C2D-C1D-ND	3.74	112.86	110.10
29	1b	612	CLA	CHD-C1D-ND	-3.74	121.02	124.45
29	05	302	CLA	C4D-CHA-C1A	-3.74	116.70	121.25
29	1s	307	CLA	CAA-C2A-C3A	-3.74	107.38	116.10
33	1a	413	LHG	O7-C7-C8	3.74	119.55	111.50
30	05	313	CHL	CAA-C2A-C3A	-3.74	107.38	116.10
29	1s	306	CLA	C3D-C2D-C1D	-3.73	100.73	105.83
29	1b	607	CLA	C1C-C2C-C3C	-3.73	103.03	106.96
30	04	304	CHL	C1D-ND-C4D	-3.73	103.68	106.33
29	1r	310	CLA	CHD-C1D-ND	-3.73	121.02	124.45
29	01	311	CLA	C1D-CHD-C4C	-3.73	118.01	126.06
29	00	301	CLA	CHD-C1D-ND	-3.73	121.02	124.45
30	01	303	CHL	C1D-ND-C4D	-3.73	103.69	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	303	CLA	C4D-CHA-C1A	-3.73	116.71	121.25
29	1B	607	CLA	CHB-C1B-NB	-3.73	120.31	124.26
29	1B	613	CLA	CHB-C1B-NB	-3.73	120.31	124.26
29	09	317	CLA	C4D-CHA-C1A	-3.73	116.71	121.25
29	1b	607	CLA	C3D-C2D-C1D	-3.73	100.75	105.83
29	1c	506	CLA	CHC-C4B-NB	-3.73	120.31	124.26
30	08	301	CHL	C2D-C1D-ND	3.73	112.85	110.10
31	00	313	LUT	C39-C29-C30	-3.73	117.70	122.92
31	03	313	LUT	C19-C9-C10	-3.73	117.70	122.92
29	1b	606	CLA	CMD-C2D-C3D	-3.72	119.05	127.61
30	1R	313	CHL	C2D-C1D-ND	3.72	112.85	110.10
30	09	308	CHL	CAC-C3C-C4C	3.72	129.64	124.81
29	07	309	CLA	CAC-C3C-C4C	3.72	129.64	124.81
29	1n	613	CLA	C1C-C2C-C3C	-3.72	103.04	106.96
29	1g	610	CLA	C4D-CHA-C1A	-3.72	116.72	121.25
29	08	309	CLA	CHC-C4B-NB	-3.72	120.32	124.26
29	1s	313	CLA	CHC-C4B-NB	-3.72	120.32	124.26
29	07	307	CLA	CHC-C1C-C2C	-3.72	116.39	126.73
31	01	314	LUT	C39-C29-C30	-3.72	117.71	122.92
29	1S	305	CLA	C1D-CHD-C4C	-3.72	118.03	126.06
29	1B	602	CLA	C3B-C2B-C1B	-3.72	102.67	107.16
29	1a	405	CLA	C4C-C3C-C2C	-3.72	101.48	106.90
29	1c	514	CLA	C3B-C4B-NB	3.72	113.97	110.52
29	1b	613	CLA	CAC-C3C-C4C	3.72	129.63	124.81
30	1g	601	CHL	C1D-ND-C4D	-3.72	103.69	106.33
29	1G	614	CLA	CHD-C1D-ND	-3.71	121.04	124.45
29	1r	302	CLA	C1C-C2C-C3C	-3.71	103.05	106.96
29	07	302	CLA	C3B-C2B-C1B	-3.71	102.68	107.16
30	1r	306	CHL	C3B-C4B-NB	3.71	113.96	110.52
31	1g	616	LUT	C39-C29-C30	-3.71	117.72	122.92
29	1B	613	CLA	CHD-C1D-ND	-3.71	121.04	124.45
29	1b	606	CLA	CMB-C2B-C1B	3.71	131.02	125.37
29	1R	308	CLA	C3D-C2D-C1D	-3.71	100.77	105.83
29	1g	604	CLA	CAC-C3C-C4C	3.71	129.62	124.81
29	1n	613	CLA	C3B-C4B-NB	3.71	113.96	110.52
30	1R	313	CHL	C1D-ND-C4D	-3.71	103.70	106.33
29	1d	403	CLA	C2D-C1D-ND	3.71	112.84	110.10
31	1G	615	LUT	C19-C9-C10	-3.71	117.73	122.92
29	1r	308	CLA	C3D-C2D-C1D	-3.71	100.77	105.83
29	01	308	CLA	C4D-CHA-C1A	-3.71	116.74	121.25
30	1r	305	CHL	C1D-ND-C4D	-3.71	103.70	106.33
30	04	302	CHL	C3B-C4B-NB	3.70	113.95	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	607	CLA	CHD-C1D-ND	-3.70	121.05	124.45
31	1r	315	LUT	C19-C9-C10	-3.70	117.73	122.92
30	1G	609	CHL	C1D-ND-C4D	-3.70	103.70	106.33
29	1b	610	CLA	C4A-NA-C1A	3.70	108.37	106.71
29	02	611	CLA	C4D-CHA-C1A	-3.70	116.74	121.25
30	02	604	CHL	CAC-C3C-C4C	3.70	129.61	124.81
34	1b	627	DGD	O2G-C1B-C2B	3.70	119.48	111.50
29	1b	602	CLA	CHC-C1C-C2C	-3.70	116.45	126.73
29	1s	313	CLA	C4D-CHA-C1A	-3.70	116.75	121.25
35	1B	630	BCR	C37-C22-C21	-3.70	117.74	122.92
29	1B	608	CLA	C4C-C3C-C2C	-3.70	101.51	106.90
29	04	309	CLA	C3D-C2D-C1D	-3.70	100.78	105.83
29	00	311	CLA	C4A-NA-C1A	3.70	108.37	106.71
29	1B	616	CLA	C4A-NA-C1A	3.70	108.37	106.71
29	00	318	CLA	C4D-CHA-C1A	-3.70	116.75	121.25
30	1g	607	CHL	CAC-C3C-C4C	3.70	129.61	124.81
29	1S	305	CLA	C2D-C1D-ND	3.70	112.83	110.10
29	00	303	CLA	CHC-C1C-C2C	-3.70	116.46	126.73
29	1B	602	CLA	CHC-C1C-C2C	-3.70	116.46	126.73
29	1b	608	CLA	C3D-C2D-C1D	-3.70	100.79	105.83
31	1g	615	LUT	C39-C29-C30	-3.70	117.75	122.92
29	1G	604	CLA	C4D-CHA-C1A	-3.70	116.75	121.25
29	1s	316	CLA	C3D-C2D-C1D	-3.70	100.79	105.83
29	1a	405	CLA	C2D-C1D-ND	3.70	112.83	110.10
30	06	601	CHL	CAC-C3C-C4C	3.69	129.60	124.81
29	06	609	CLA	CAC-C3C-C4C	3.69	129.60	124.81
29	1N	314	CLA	C3D-C4D-ND	3.69	116.21	110.24
29	00	309	CLA	O2D-CGD-CBD	3.69	117.83	111.27
29	1b	617	CLA	CHB-C1B-NB	-3.69	120.35	124.26
29	1n	612	CLA	C4D-CHA-C1A	-3.69	116.76	121.25
31	1G	615	LUT	C15-C35-C34	3.69	131.03	123.47
29	09	301	CLA	CAC-C3C-C4C	3.69	129.60	124.81
30	09	304	CHL	C1D-ND-C4D	-3.69	103.72	106.33
30	09	304	CHL	CMB-C2B-C1B	3.69	130.99	125.37
29	08	309	CLA	C3D-C2D-C1D	-3.69	100.80	105.83
31	00	313	LUT	C19-C9-C10	-3.69	117.76	122.92
29	1c	504	CLA	C3D-C2D-C1D	-3.69	100.80	105.83
30	05	305	CHL	C3B-C4B-NB	3.69	113.94	110.52
30	03	311	CHL	C1D-ND-C4D	-3.69	103.72	106.33
29	05	311	CLA	C3D-C2D-C1D	-3.68	100.81	105.83
29	1D	401	CLA	CHC-C1C-C2C	-3.68	116.51	126.73
29	05	302	CLA	C4A-NA-C1A	3.68	108.36	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	311	CLA	CAC-C3C-C4C	3.68	129.58	124.81
29	06	609	CLA	C4D-CHA-C1A	-3.68	116.78	121.25
29	1c	505	CLA	C3B-C4B-NB	3.68	113.92	110.52
30	00	307	CHL	C1D-ND-C4D	-3.68	103.72	106.33
30	1S	307	CHL	C1D-ND-C4D	-3.68	103.72	106.33
29	05	301	CLA	C4D-CHA-C1A	-3.67	116.78	121.25
30	1n	601	CHL	C1D-ND-C4D	-3.67	103.72	106.33
30	01	304	CHL	CAC-C3C-C4C	3.67	129.58	124.81
29	1B	609	CLA	C3D-C2D-C1D	-3.67	100.82	105.83
30	1S	304	CHL	CAC-C3C-C4C	3.67	129.57	124.81
35	1k	102	BCR	C34-C9-C10	-3.67	117.78	122.92
29	1C	508	CLA	CHC-C4B-NB	-3.67	120.37	124.26
29	1r	311	CLA	CHC-C1C-C2C	-3.67	116.53	126.73
29	1S	315	CLA	CHD-C1D-ND	-3.67	121.08	124.45
46	1G	617	XAT	C30-C31-C32	3.67	134.67	123.22
29	03	308	CLA	C4D-CHA-C1A	-3.67	116.78	121.25
29	1c	509	CLA	C4D-CHA-C1A	-3.67	116.78	121.25
29	1b	614	CLA	CHB-C1B-NB	-3.67	120.37	124.26
29	1s	305	CLA	C1C-C2C-C3C	-3.67	103.10	106.96
29	1G	611	CLA	C4D-CHA-C1A	-3.67	116.78	121.25
30	1s	308	CHL	C1D-ND-C4D	-3.67	103.73	106.33
29	1C	507	CLA	C4C-C3C-C2C	-3.67	101.55	106.90
35	1b	618	BCR	C37-C22-C21	-3.67	117.79	122.92
29	08	306	CLA	C4D-CHA-C1A	-3.67	116.79	121.25
30	04	301	CHL	CAC-C3C-C4C	3.67	129.57	124.81
30	09	306	CHL	CAC-C3C-C4C	3.67	129.57	124.81
35	04	313	BCR	C37-C22-C21	-3.67	117.79	122.92
29	1b	607	CLA	CHB-C4A-NA	3.66	129.58	124.51
29	05	310	CLA	C4D-CHA-C1A	-3.66	116.79	121.25
29	1A	407	CLA	C2D-C1D-ND	3.66	112.80	110.10
30	1S	304	CHL	C2D-C1D-ND	3.66	112.80	110.10
29	1N	313	CLA	C4D-CHA-C1A	-3.66	116.79	121.25
30	08	302	CHL	CAC-C3C-C4C	3.66	129.56	124.81
29	1b	612	CLA	C1D-CHD-C4C	-3.66	118.16	126.06
30	1g	609	CHL	CAC-C3C-C4C	3.66	129.56	124.81
29	03	312	CLA	CHD-C1D-ND	-3.66	121.09	124.45
29	1C	502	CLA	C3D-C2D-C1D	-3.66	100.83	105.83
29	1b	606	CLA	CHC-C1C-C2C	-3.66	116.56	126.73
29	05	308	CLA	CHB-C4A-NA	3.66	129.57	124.51
30	07	304	CHL	C1D-ND-C4D	-3.66	103.73	106.33
30	1r	306	CHL	C1D-ND-C4D	-3.66	103.73	106.33
29	07	307	CLA	CHB-C1B-NB	-3.66	120.39	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1D	401	CLA	C4D-CHA-C1A	-3.66	116.80	121.25
29	00	301	CLA	C2D-C1D-ND	3.66	112.80	110.10
29	1n	612	CLA	CHC-C1C-C2C	-3.66	116.57	126.73
35	1b	620	BCR	C23-C22-C21	3.66	124.55	118.94
29	1D	402	CLA	CHC-C1C-C2C	-3.66	116.58	126.73
29	09	301	CLA	CHC-C4B-NB	-3.66	120.39	124.26
29	02	612	CLA	CHC-C1C-C2C	-3.66	116.58	126.73
30	1R	304	CHL	C1D-ND-C4D	-3.65	103.74	106.33
29	1c	508	CLA	C3B-C4B-NB	3.65	113.91	110.52
41	1w	101	SQD	O8-S-C6	-3.65	99.92	105.74
29	1g	604	CLA	CHC-C1C-C2C	-3.65	116.58	126.73
30	1n	601	CHL	CAC-C3C-C4C	3.65	129.55	124.81
29	05	302	CLA	CHD-C1D-ND	-3.65	121.10	124.45
29	1C	510	CLA	CHB-C1B-NB	-3.65	120.39	124.26
29	1b	611	CLA	C3B-C4B-NB	3.65	113.90	110.52
30	05	306	CHL	CAA-C2A-C3A	-3.65	107.58	116.10
29	01	311	CLA	CHC-C1C-C2C	-3.65	116.59	126.73
29	00	311	CLA	CHB-C1B-NB	-3.65	120.39	124.26
46	1r	316	XAT	C31-C32-C33	-3.65	116.16	126.42
29	08	306	CLA	CHC-C1C-C2C	-3.65	116.59	126.73
29	07	312	CLA	CHC-C4B-NB	-3.65	120.39	124.26
30	09	308	CHL	CHD-C4C-C3C	-3.65	119.48	124.84
29	1c	513	CLA	C4D-CHA-C1A	-3.65	116.81	121.25
29	1S	312	CLA	CHC-C1C-C2C	-3.65	116.60	126.73
29	1C	509	CLA	CHD-C1D-ND	-3.65	121.10	124.45
30	07	305	CHL	CAA-C2A-C3A	-3.65	107.59	116.10
45	1E	103	HEM	C1B-NB-C4B	3.65	108.84	105.07
29	09	301	CLA	C1C-C2C-C3C	-3.64	103.12	106.96
29	00	318	CLA	CHD-C1D-ND	-3.64	121.11	124.45
29	1C	510	CLA	CHC-C1C-C2C	-3.64	116.61	126.73
29	1g	602	CLA	C3D-C2D-C1D	-3.64	100.86	105.83
29	1B	611	CLA	CHB-C1B-NB	-3.64	120.40	124.26
30	09	308	CHL	CHB-C1B-NB	-3.64	120.40	124.26
30	00	307	CHL	CHB-C4A-NA	3.64	129.55	124.51
29	1S	306	CLA	CHC-C1C-C2C	-3.64	116.61	126.73
30	07	304	CHL	CAC-C3C-C4C	3.64	129.53	124.81
29	1c	505	CLA	CAC-C3C-C4C	3.64	129.53	124.81
46	1g	619	XAT	C4-C3-C2	-3.64	103.75	110.77
29	1g	613	CLA	CHB-C1B-NB	-3.64	120.41	124.26
30	1g	601	CHL	CHB-C4A-NA	3.64	129.54	124.51
29	1B	610	CLA	C1D-CHD-C4C	-3.64	118.21	126.06
29	1G	611	CLA	C1D-CHD-C4C	-3.64	118.21	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	09	317	CLA	CMB-C2B-C1B	3.64	130.91	125.37
29	1C	511	CLA	C4D-CHA-C1A	-3.64	116.82	121.25
29	1g	611	CLA	C4D-CHA-C1A	-3.64	116.82	121.25
34	00	320	DGD	O2G-C1B-C2B	3.64	119.34	111.50
30	1g	605	CHL	CAC-C3C-C4C	3.63	129.53	124.81
30	1N	302	CHL	CHB-C4A-NA	3.63	129.54	124.51
30	1S	309	CHL	C1D-ND-C4D	-3.63	103.75	106.33
29	1S	305	CLA	CAC-C3C-C4C	3.63	129.52	124.81
29	1G	604	CLA	CHC-C1C-C2C	-3.63	116.64	126.73
35	1B	617	BCR	C38-C26-C25	3.63	128.60	124.53
30	02	607	CHL	C1D-ND-C4D	-3.63	103.76	106.33
29	07	302	CLA	CHD-C1D-ND	-3.63	121.12	124.45
29	01	310	CLA	O2D-CGD-O1D	-3.63	116.74	123.84
30	03	311	CHL	CAA-C2A-C3A	-3.63	107.63	116.10
29	05	302	CLA	CHC-C1C-C2C	-3.63	116.65	126.73
29	1N	311	CLA	CMC-C2C-C1C	3.63	130.56	125.04
29	1b	611	CLA	C4C-C3C-C2C	-3.63	101.61	106.90
29	00	318	CLA	C2D-C1D-ND	3.63	112.78	110.10
29	02	614	CLA	C2D-C1D-ND	3.63	112.78	110.10
29	1s	305	CLA	C1D-CHD-C4C	-3.63	118.23	126.06
30	08	301	CHL	CAA-C2A-C3A	-3.63	107.63	116.10
35	1B	619	BCR	C35-C13-C14	-3.63	117.84	122.92
30	1G	607	CHL	C3D-C4D-ND	3.63	116.11	110.24
29	05	310	CLA	CHC-C1C-C2C	-3.63	116.66	126.73
29	1b	612	CLA	C3B-C2B-C1B	-3.62	102.79	107.16
29	1S	315	CLA	CHB-C4A-NA	3.62	129.52	124.51
29	05	312	CLA	CMD-C2D-C3D	-3.62	119.28	127.61
40	1E	102	PL9	C35-C34-C36	3.62	121.36	115.27
30	1n	607	CHL	CHB-C4A-NA	3.62	129.52	124.51
35	1Z	101	BCR	C15-C16-C17	3.62	130.89	123.47
35	1i	101	BCR	C37-C22-C21	-3.62	117.85	122.92
29	1s	307	CLA	CHC-C1C-C2C	-3.62	116.68	126.73
29	1R	308	CLA	C4D-CHA-C1A	-3.62	116.85	121.25
29	1c	512	CLA	C3D-C2D-C1D	-3.62	100.89	105.83
31	1R	315	LUT	C40-C33-C34	-3.62	117.86	122.92
31	1s	318	LUT	C39-C29-C30	-3.62	117.86	122.92
29	1G	602	CLA	CAC-C3C-C4C	3.62	129.50	124.81
29	03	307	CLA	CHB-C1B-NB	-3.61	120.43	124.26
30	07	305	CHL	C1D-ND-C4D	-3.61	103.77	106.33
29	01	310	CLA	C3D-C2D-C1D	-3.61	100.90	105.83
29	1d	406	CLA	CMD-C2D-C3D	-3.61	119.30	127.61
29	05	312	CLA	CHB-C4A-NA	3.61	129.51	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	311	CLA	CHD-C1D-ND	-3.61	121.13	124.45
30	05	315	CHL	C1D-ND-C4D	-3.61	103.77	106.33
30	09	305	CHL	C1D-ND-C4D	-3.61	103.77	106.33
29	03	312	CLA	CHC-C1C-C2C	-3.61	116.70	126.73
29	09	301	CLA	C1D-CHD-C4C	-3.61	118.27	126.06
29	1B	607	CLA	O2A-CGA-CBA	3.61	123.23	111.91
30	04	303	CHL	C1D-ND-C4D	-3.61	103.77	106.33
29	03	312	CLA	C1D-CHD-C4C	-3.61	118.27	126.06
29	01	301	CLA	C3D-C2D-C1D	-3.61	100.91	105.83
35	1I	102	BCR	C37-C22-C21	-3.61	117.87	122.92
29	1B	604	CLA	O2A-CGA-CBA	3.61	123.23	111.91
29	1g	612	CLA	C1D-CHD-C4C	-3.61	118.28	126.06
29	1a	408	CLA	CMC-C2C-C1C	3.61	130.53	125.04
29	1C	502	CLA	CHB-C1B-NB	-3.61	120.44	124.26
30	1G	601	CHL	C1C-C2C-C3C	-3.60	104.25	107.11
29	1N	304	CLA	CHC-C1C-C2C	-3.60	116.72	126.73
29	1C	507	CLA	CAC-C3C-C4C	3.60	129.49	124.81
31	09	314	LUT	C39-C29-C30	-3.60	117.88	122.92
29	03	312	CLA	CHC-C4B-NB	-3.60	120.44	124.26
29	1c	513	CLA	CHC-C1C-C2C	-3.60	116.72	126.73
29	09	312	CLA	CAC-C3C-C4C	3.60	129.49	124.81
29	01	311	CLA	C2D-C1D-ND	3.60	112.76	110.10
29	1S	311	CLA	C3D-C2D-C1D	-3.60	100.92	105.83
31	1R	315	LUT	C39-C29-C30	-3.60	117.88	122.92
31	00	313	LUT	C15-C35-C34	3.60	130.85	123.47
30	1N	302	CHL	C2D-C1D-ND	3.60	112.76	110.10
35	1h	101	BCR	C16-C15-C14	3.60	130.85	123.47
29	1b	616	CLA	CMB-C2B-C1B	3.60	130.85	125.37
29	1a	405	CLA	O2D-CGD-CBD	3.60	117.66	111.27
29	1N	303	CLA	CHC-C4B-NB	-3.60	120.45	124.26
29	1S	305	CLA	C1C-C2C-C3C	-3.60	103.17	106.96
31	00	314	LUT	C39-C29-C30	-3.60	117.88	122.92
31	05	314	LUT	C39-C29-C30	-3.60	117.88	122.92
29	1A	407	CLA	CMC-C2C-C1C	3.60	130.52	125.04
29	03	308	CLA	CHC-C1C-C2C	-3.60	116.74	126.73
29	1c	515	CLA	C2D-C1D-ND	3.60	112.75	110.10
29	1s	312	CLA	C4D-CHA-C1A	-3.59	116.87	121.25
29	1N	313	CLA	CHC-C1C-C2C	-3.59	116.75	126.73
29	1C	513	CLA	C1D-CHD-C4C	-3.59	118.30	126.06
30	1G	607	CHL	C3B-C4B-NB	3.59	113.85	110.52
29	1n	613	CLA	CHD-C1D-ND	-3.59	121.15	124.45
30	04	302	CHL	CAC-C3C-C4C	3.59	129.47	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1N	314	CLA	CHB-C1B-NB	-3.59	120.45	124.26
30	1S	308	CHL	C1D-ND-C4D	-3.59	103.78	106.33
29	03	307	CLA	CHC-C1C-C2C	-3.59	116.76	126.73
29	1R	307	CLA	C1D-CHD-C4C	-3.59	118.31	126.06
31	1N	316	LUT	C39-C29-C30	-3.59	117.89	122.92
29	1b	610	CLA	CHB-C1B-NB	-3.59	120.46	124.26
29	1G	612	CLA	C4D-CHA-C1A	-3.59	116.88	121.25
31	09	313	LUT	C39-C29-C28	3.59	123.73	118.08
30	09	308	CHL	C1D-ND-C4D	-3.59	103.79	106.33
29	1c	505	CLA	C4D-CHA-C1A	-3.59	116.88	121.25
30	1n	607	CHL	CAC-C3C-C4C	3.59	129.46	124.81
29	1S	315	CLA	C1D-CHD-C4C	-3.59	118.32	126.06
29	09	310	CLA	C3D-C2D-C1D	-3.59	100.94	105.83
29	1g	613	CLA	C2D-C1D-ND	3.59	112.75	110.10
29	1C	506	CLA	C1D-CHD-C4C	-3.58	118.33	126.06
29	1g	610	CLA	O2D-CGD-CBD	3.58	117.64	111.27
30	09	304	CHL	CAC-C3C-C4C	3.58	129.46	124.81
29	09	303	CLA	C3B-C4B-NB	3.58	113.84	110.52
46	1g	619	XAT	C37-C21-C26	-3.58	100.37	110.05
30	1n	605	CHL	C1D-ND-C4D	-3.58	103.79	106.33
29	08	309	CLA	C3B-C4B-NB	3.58	113.84	110.52
29	00	301	CLA	CAC-C3C-C4C	3.58	129.46	124.81
30	1S	304	CHL	C1D-ND-C4D	-3.58	103.79	106.33
29	1B	605	CLA	CAC-C3C-C4C	3.58	129.46	124.81
29	1a	406	CLA	CHC-C4B-NB	-3.58	120.47	124.26
29	1R	311	CLA	CHC-C1C-C2C	-3.58	116.79	126.73
29	04	310	CLA	CHC-C4B-NB	-3.58	120.47	124.26
29	1g	612	CLA	CHB-C1B-NB	-3.58	120.47	124.26
29	1c	514	CLA	C4A-NA-C1A	3.58	108.31	106.71
29	00	302	CLA	CHC-C1C-C2C	-3.58	116.79	126.73
29	09	302	CLA	C1D-CHD-C4C	-3.58	118.34	126.06
31	1S	317	LUT	C39-C29-C30	-3.58	117.91	122.92
29	03	306	CLA	C2D-C1D-ND	3.58	112.74	110.10
29	03	308	CLA	C3B-C4B-NB	3.58	113.83	110.52
29	07	312	CLA	C1D-CHD-C4C	-3.58	118.34	126.06
29	1C	513	CLA	C4D-CHA-C1A	-3.57	116.90	121.25
29	1B	616	CLA	C3D-C2D-C1D	-3.57	100.95	105.83
31	03	313	LUT	C39-C29-C30	-3.57	117.92	122.92
29	1b	605	CLA	C1D-CHD-C4C	-3.57	118.35	126.06
29	1s	315	CLA	CHC-C1C-C2C	-3.57	116.81	126.73
29	1b	617	CLA	CMB-C2B-C1B	3.57	130.81	125.37
29	1n	602	CLA	C1C-C2C-C3C	-3.57	103.20	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1A	409	BCR	C35-C13-C14	-3.57	117.92	122.92
29	1G	611	CLA	CHD-C1D-ND	-3.57	121.17	124.45
29	1G	602	CLA	C1C-C2C-C3C	-3.57	103.20	106.96
29	1b	605	CLA	C4C-C3C-C2C	-3.57	101.69	106.90
29	02	612	CLA	C3B-C4B-NB	3.57	113.83	110.52
30	1g	606	CHL	C1D-ND-C4D	-3.57	103.80	106.33
29	1c	509	CLA	CHC-C1C-C2C	-3.57	116.82	126.73
29	1R	306	CLA	CHB-C4A-NA	3.57	129.45	124.51
29	03	306	CLA	CBD-CHA-C1A	3.57	132.71	128.50
29	1b	605	CLA	CMD-C2D-C3D	-3.57	119.41	127.61
29	1C	509	CLA	C1D-CHD-C4C	-3.57	118.36	126.06
29	1s	314	CLA	CHC-C1C-C2C	-3.57	116.83	126.73
29	01	312	CLA	CHC-C1C-C2C	-3.56	116.83	126.73
29	1C	505	CLA	CAC-C3C-C4C	3.56	129.43	124.81
29	1b	614	CLA	O2D-CGD-CBD	3.56	117.60	111.27
35	1d	409	BCR	C16-C15-C14	3.56	130.77	123.47
30	06	605	CHL	CAC-C3C-C4C	3.56	129.43	124.81
29	1g	611	CLA	C1D-CHD-C4C	-3.56	118.38	126.06
29	1d	406	CLA	CMC-C2C-C1C	3.56	130.46	125.04
29	03	306	CLA	C1D-CHD-C4C	-3.56	118.38	126.06
29	06	602	CLA	C2D-C1D-ND	3.56	112.73	110.10
29	1N	304	CLA	CHB-C1B-NB	-3.56	120.49	124.26
29	1d	406	CLA	C3D-C2D-C1D	-3.56	100.97	105.83
29	1b	605	CLA	O2D-CGD-O1D	-3.56	116.88	123.84
29	1B	616	CLA	CMD-C2D-C3D	-3.56	119.43	127.61
29	1d	407	CLA	CHC-C1C-C2C	-3.56	116.85	126.73
29	1c	504	CLA	CAC-C3C-C4C	3.56	129.42	124.81
29	1n	604	CLA	CHC-C1C-C2C	-3.56	116.85	126.73
29	1s	315	CLA	C4D-CHA-C1A	-3.56	116.92	121.25
29	1N	311	CLA	CHD-C1D-ND	-3.56	121.19	124.45
30	07	311	CHL	C1D-ND-C4D	-3.55	103.81	106.33
31	1r	315	LUT	C39-C29-C30	-3.55	117.95	122.92
29	1s	315	CLA	C3B-C4B-NB	3.55	113.81	110.52
29	1B	607	CLA	CAC-C3C-C4C	3.55	129.42	124.81
29	03	309	CLA	CHC-C1C-C2C	-3.55	116.87	126.73
29	1a	406	CLA	C2D-C1D-ND	3.55	112.72	110.10
29	1B	615	CLA	CHC-C4B-NB	-3.55	120.50	124.26
31	1N	316	LUT	C19-C9-C10	-3.55	117.95	122.92
29	02	610	CLA	CHC-C1C-C2C	-3.55	116.87	126.73
29	03	301	CLA	C2D-C1D-ND	3.55	112.72	110.10
29	1B	611	CLA	C2D-C1D-ND	3.55	112.72	110.10
29	1S	312	CLA	C1D-CHD-C4C	-3.55	118.40	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	305	CLA	CAC-C3C-C4C	3.55	129.41	124.81
35	1H	101	BCR	C36-C18-C17	-3.55	117.95	122.92
30	1N	308	CHL	CHB-C4A-NA	3.55	129.42	124.51
29	04	306	CLA	C3D-C2D-C1D	-3.55	100.99	105.83
35	1b	619	BCR	C16-C15-C14	3.55	130.74	123.47
29	04	307	CLA	CHC-C1C-C2C	-3.55	116.88	126.73
29	1g	613	CLA	CAC-C3C-C4C	3.55	129.41	124.81
30	1R	304	CHL	CAC-C3C-C4C	3.55	129.41	124.81
29	09	302	CLA	C3B-C4B-NB	3.55	113.81	110.52
29	09	312	CLA	CHC-C1C-C2C	-3.55	116.88	126.73
30	09	304	CHL	CHB-C1B-NB	-3.55	120.50	124.26
29	04	312	CLA	CHC-C1C-C2C	-3.55	116.88	126.73
31	1S	318	LUT	C39-C29-C30	-3.55	117.96	122.92
29	01	311	CLA	CHD-C1D-ND	-3.55	121.20	124.45
30	1n	605	CHL	CHB-C4A-NA	3.54	129.41	124.51
29	1N	314	CLA	C1D-CHD-C4C	-3.54	118.41	126.06
30	06	604	CHL	CAA-C2A-C3A	-3.54	107.83	116.10
29	00	301	CLA	C1D-CHD-C4C	-3.54	118.41	126.06
29	07	312	CLA	CHC-C1C-C2C	-3.54	116.89	126.73
31	00	314	LUT	C15-C35-C34	3.54	130.73	123.47
29	1N	311	CLA	C1D-CHD-C4C	-3.54	118.41	126.06
29	1c	515	CLA	CHC-C4B-NB	-3.54	120.51	124.26
29	05	309	CLA	CHC-C1C-C2C	-3.54	116.89	126.73
31	09	313	LUT	C39-C29-C30	-3.54	117.96	122.92
29	04	312	CLA	CHB-C1B-NB	-3.54	120.51	124.26
30	08	305	CHL	CAC-C3C-C4C	3.54	129.41	124.81
29	1R	314	CLA	CHB-C4A-NA	3.54	129.41	124.51
29	1c	507	CLA	CHD-C1D-ND	-3.54	121.20	124.45
29	1s	314	CLA	C1D-CHD-C4C	-3.54	118.42	126.06
29	1S	315	CLA	CHC-C1C-C2C	-3.54	116.90	126.73
29	1D	402	CLA	C3B-C4B-NB	3.54	113.80	110.52
29	1g	602	CLA	CHD-C1D-ND	-3.54	121.20	124.45
29	1n	612	CLA	CHD-C1D-ND	-3.54	121.20	124.45
46	1G	617	XAT	C4-C3-C2	-3.54	103.94	110.77
30	07	306	CHL	CAC-C3C-C4C	3.54	129.40	124.81
29	1b	612	CLA	C1C-C2C-C3C	-3.54	103.24	106.96
30	01	306	CHL	C3D-C4D-ND	3.54	115.96	110.24
29	1b	608	CLA	C4D-CHA-C1A	-3.54	116.94	121.25
29	1s	314	CLA	C2D-C1D-ND	3.54	112.71	110.10
29	03	309	CLA	CAC-C3C-C4C	3.54	129.40	124.81
29	1n	603	CLA	CHC-C1C-C2C	-3.54	116.91	126.73
30	05	304	CHL	CMB-C2B-C1B	3.53	130.75	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	303	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
29	1R	307	CLA	C2D-C1D-ND	3.53	112.71	110.10
30	1n	607	CHL	C1D-ND-C4D	-3.53	103.83	106.33
29	02	611	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
29	1S	313	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
29	01	308	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
29	1c	506	CLA	C2D-C1D-ND	3.53	112.71	110.10
29	08	306	CLA	C1D-CHD-C4C	-3.53	118.44	126.06
29	02	613	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
29	1G	612	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
29	1s	313	CLA	CHC-C1C-C2C	-3.53	116.92	126.73
30	03	304	CHL	CAC-C3C-C4C	3.53	129.39	124.81
29	1C	511	CLA	CMC-C2C-C1C	3.53	130.41	125.04
29	1s	311	CLA	CHC-C1C-C2C	-3.53	116.93	126.73
30	03	304	CHL	C1D-ND-C4D	-3.53	103.83	106.33
29	1S	312	CLA	CHB-C1B-NB	-3.53	120.52	124.26
29	1a	408	CLA	CHD-C1D-ND	-3.53	121.21	124.45
30	02	607	CHL	CAC-C3C-C4C	3.53	129.39	124.81
29	1D	405	CLA	CHC-C1C-C2C	-3.53	116.93	126.73
29	07	307	CLA	CAC-C3C-C4C	3.53	129.39	124.81
30	1R	303	CHL	C2D-C1D-ND	3.53	112.70	110.10
42	1B	623	MGE	O2G-C1B-C2B	3.53	119.10	111.50
29	1C	512	CLA	CHC-C4B-NB	-3.53	120.52	124.26
30	1G	601	CHL	CHB-C4A-NA	3.53	129.39	124.51
29	1R	302	CLA	CAC-C3C-C4C	3.53	129.38	124.81
29	1b	604	CLA	C3D-C2D-C1D	-3.53	101.02	105.83
29	09	303	CLA	C4D-CHA-C1A	-3.53	116.96	121.25
29	1B	603	CLA	CMD-C2D-C3D	-3.52	119.51	127.61
29	00	302	CLA	CHB-C4A-NA	3.52	129.38	124.51
29	1c	512	CLA	C1D-CHD-C4C	-3.52	118.46	126.06
29	09	311	CLA	CHB-C1B-NB	-3.52	120.53	124.26
29	1b	609	CLA	CHC-C1C-C2C	-3.52	116.95	126.73
30	1s	304	CHL	CAC-C3C-C4C	3.52	129.38	124.81
29	06	602	CLA	CHC-C1C-C2C	-3.52	116.95	126.73
29	1B	608	CLA	CHD-C1D-ND	-3.52	121.22	124.45
29	1r	308	CLA	CHB-C4A-NA	3.52	129.38	124.51
30	07	311	CHL	CHB-C1B-NB	-3.52	120.53	124.26
29	1N	305	CLA	CHC-C1C-C2C	-3.52	116.96	126.73
29	1g	610	CLA	CHC-C1C-C2C	-3.52	116.96	126.73
30	1N	308	CHL	O2D-CGD-CBD	3.52	117.52	111.27
30	1r	306	CHL	O2D-CGD-CBD	3.52	117.52	111.27
29	1c	512	CLA	CHD-C1D-ND	-3.52	121.22	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	513	CLA	CHC-C4B-NB	-3.52	120.53	124.26
29	08	310	CLA	CBD-CHA-C1A	3.52	133.06	127.43
30	1N	308	CHL	CAC-C3C-C4C	3.52	129.37	124.81
29	1n	603	CLA	C4D-CHA-C1A	-3.52	116.97	121.25
29	1s	314	CLA	C4D-CHA-C1A	-3.52	116.97	121.25
29	1B	607	CLA	C1D-CHD-C4C	-3.52	118.47	126.06
29	1R	306	CLA	CHC-C4B-NB	-3.51	120.54	124.26
29	1c	514	CLA	C1D-CHD-C4C	-3.51	118.48	126.06
29	09	302	CLA	CHC-C1C-C2C	-3.51	116.97	126.73
29	04	311	CLA	CHC-C1C-C2C	-3.51	116.97	126.73
29	1s	306	CLA	CHB-C4A-NA	3.51	129.37	124.51
29	1b	607	CLA	C3B-C4B-NB	3.51	113.77	110.52
31	1s	317	LUT	C19-C9-C10	-3.51	118.00	122.92
29	02	602	CLA	CHC-C4B-NB	-3.51	120.54	124.26
46	1g	617	XAT	C6-C7-C8	-3.51	118.57	125.99
29	1b	612	CLA	C4C-C3C-C2C	-3.51	101.78	106.90
35	1B	630	BCR	C7-C8-C9	3.51	131.54	126.23
29	1n	612	CLA	C1D-CHD-C4C	-3.51	118.49	126.06
29	1g	602	CLA	CAC-C3C-C4C	3.51	129.36	124.81
29	1s	312	CLA	CAC-C3C-C4C	3.51	129.36	124.81
29	1b	609	CLA	CHC-C4B-NB	-3.51	120.54	124.26
33	1C	525	LHG	O7-C7-C8	3.51	119.06	111.50
38	1A	405	PHO	C2B-C1B-NB	-3.51	107.11	109.53
29	1R	302	CLA	C4-C3-C5	3.51	121.17	115.27
30	02	603	CHL	CAC-C3C-C4C	3.51	129.36	124.81
30	08	304	CHL	CAC-C3C-C4C	3.51	129.36	124.81
30	04	303	CHL	CHB-C4A-NA	3.51	129.36	124.51
30	06	603	CHL	C3D-C4D-ND	3.51	115.91	110.24
29	04	310	CLA	CHC-C1C-C2C	-3.51	116.99	126.73
29	1C	502	CLA	C4C-C3C-C2C	-3.51	101.79	106.90
29	1G	612	CLA	CMB-C2B-C1B	3.50	130.71	125.37
29	1N	312	CLA	CHC-C1C-C2C	-3.50	117.00	126.73
29	1s	307	CLA	C4D-CHA-C1A	-3.50	116.98	121.25
30	1N	306	CHL	CHB-C4A-NA	3.50	129.36	124.51
33	1s	303	LHG	O7-C7-C8	3.50	119.05	111.50
29	1g	611	CLA	CHC-C1C-C2C	-3.50	117.00	126.73
29	1G	602	CLA	C1D-CHD-C4C	-3.50	118.50	126.06
29	06	611	CLA	CHC-C1C-C2C	-3.50	117.00	126.73
29	1s	306	CLA	CHD-C1D-ND	-3.50	121.24	124.45
29	1C	506	CLA	CHB-C4A-NA	3.50	129.35	124.51
29	1s	306	CLA	CHB-C1B-NB	-3.50	120.55	124.26
29	02	613	CLA	CHB-C1B-NB	-3.50	120.55	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	01	315	LUT	C19-C9-C10	-3.50	118.02	122.92
30	1S	308	CHL	O2D-CGD-O1D	-3.50	117.00	123.84
29	1R	302	CLA	C4D-CHA-C1A	-3.50	116.99	121.25
29	06	609	CLA	CHC-C1C-C2C	-3.50	117.02	126.73
29	1S	311	CLA	CHC-C1C-C2C	-3.50	117.02	126.73
29	1B	606	CLA	CHC-C1C-C2C	-3.50	117.02	126.73
29	02	612	CLA	C1D-CHD-C4C	-3.50	118.52	126.06
29	1R	312	CLA	C4C-C3C-C2C	-3.50	101.80	106.90
29	1c	512	CLA	CHC-C1C-C2C	-3.49	117.02	126.73
30	00	305	CHL	C2D-C1D-ND	3.49	112.68	110.10
29	1B	616	CLA	C4C-C3C-C2C	-3.49	101.81	106.90
29	1B	606	CLA	CHC-C4B-NB	-3.49	120.56	124.26
29	1S	306	CLA	CMB-C2B-C1B	3.49	130.69	125.37
29	1N	304	CLA	C3B-C4B-NB	3.49	113.75	110.52
29	1G	602	CLA	CHC-C4B-NB	-3.49	120.56	124.26
29	1G	611	CLA	C3B-C4B-NB	3.49	113.75	110.52
30	06	604	CHL	CAC-C3C-C4C	3.49	129.34	124.81
29	01	308	CLA	CHB-C1B-NB	-3.49	120.56	124.26
29	1n	612	CLA	CHB-C1B-NB	-3.49	120.56	124.26
31	1G	615	LUT	C35-C15-C14	3.49	130.62	123.47
29	02	608	CLA	CHC-C4B-NB	-3.49	120.56	124.26
29	1s	314	CLA	CHC-C4B-NB	-3.49	120.56	124.26
35	1B	618	BCR	C35-C13-C14	-3.49	118.03	122.92
29	07	310	CLA	CHC-C1C-C2C	-3.49	117.04	126.73
29	1B	616	CLA	C1D-CHD-C4C	-3.49	118.53	126.06
29	02	608	CLA	C2D-C1D-ND	3.49	112.67	110.10
29	1G	612	CLA	CAC-C3C-C4C	3.49	129.34	124.81
29	04	312	CLA	CHC-C4B-NB	-3.49	120.56	124.26
30	01	306	CHL	C3B-C4B-NB	3.49	113.75	110.52
30	1s	304	CHL	OMC-CMC-C2C	-3.49	117.80	125.69
35	1B	617	BCR	C35-C13-C14	-3.49	118.04	122.92
29	05	309	CLA	CHC-C4B-NB	-3.49	120.57	124.26
29	1n	611	CLA	CHC-C4B-NB	-3.49	120.57	124.26
29	07	309	CLA	CHC-C1C-C2C	-3.49	117.05	126.73
29	1S	306	CLA	C4D-CHA-C1A	-3.49	117.01	121.25
29	02	609	CLA	CHC-C1C-C2C	-3.49	117.05	126.73
29	1B	614	CLA	CAC-C3C-C4C	3.49	129.33	124.81
29	1N	303	CLA	CAC-C3C-C4C	3.49	129.33	124.81
29	08	307	CLA	CHC-C1C-C2C	-3.49	117.05	126.73
30	02	606	CHL	CAC-C3C-C4C	3.48	129.33	124.81
30	03	302	CHL	CAC-C3C-C4C	3.48	129.33	124.81
29	1g	614	CLA	CHB-C1B-NB	-3.48	120.57	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	312	CLA	CHC-C1C-C2C	-3.48	117.06	126.73
35	1B	630	BCR	C35-C13-C14	-3.48	118.05	122.92
30	06	603	CHL	CAC-C3C-C4C	3.48	129.33	124.81
30	09	304	CHL	CHB-C4A-NA	3.48	129.33	124.51
29	1s	316	CLA	CMD-C2D-C3D	-3.48	119.61	127.61
29	07	309	CLA	CHC-C4B-NB	-3.48	120.57	124.26
29	1b	616	CLA	CHB-C1B-NB	-3.48	120.57	124.26
29	1G	614	CLA	CHC-C1C-C2C	-3.48	117.06	126.73
29	1D	401	CLA	C3B-C4B-NB	3.48	113.74	110.52
29	1N	311	CLA	C3B-C4B-NB	3.48	113.74	110.52
30	02	601	CHL	CAC-C3C-C4C	3.48	129.33	124.81
29	06	608	CLA	CHC-C1C-C2C	-3.48	117.06	126.73
29	1B	616	CLA	CHB-C1B-NB	-3.48	120.57	124.26
29	1d	406	CLA	C1C-C2C-C3C	-3.48	103.30	106.96
29	1g	602	CLA	C1D-CHD-C4C	-3.48	118.55	126.06
29	1d	406	CLA	CHC-C4B-NB	-3.48	120.57	124.26
33	1b	623	LHG	O7-C7-C8	3.48	119.00	111.50
29	1N	311	CLA	C4D-CHA-C1A	-3.48	117.02	121.25
29	07	307	CLA	CHC-C4B-NB	-3.48	120.58	124.26
29	09	310	CLA	CHB-C1B-NB	-3.48	120.58	124.26
29	1d	403	CLA	CMC-C2C-C1C	3.48	130.33	125.04
33	07	314	LHG	O7-C7-C8	3.48	118.99	111.50
29	1C	507	CLA	CHC-C4B-NB	-3.48	120.58	124.26
29	1b	607	CLA	CAC-C3C-C4C	3.47	129.32	124.81
29	1C	513	CLA	CHB-C1B-NB	-3.47	120.58	124.26
45	1f	101	HEM	CHB-C1B-NB	3.47	128.66	124.37
29	1B	603	CLA	CHC-C1C-C2C	-3.47	117.08	126.73
29	1B	610	CLA	CHC-C1C-C2C	-3.47	117.08	126.73
29	09	303	CLA	CMB-C2B-C1B	3.47	130.66	125.37
29	1B	602	CLA	C4-C3-C5	3.47	121.11	115.27
29	08	306	CLA	CHB-C1B-NB	-3.47	120.58	124.26
30	1S	307	CHL	CAA-C2A-C3A	-3.47	108.00	116.10
29	1B	602	CLA	CAC-C3C-C4C	3.47	129.31	124.81
34	1B	627	DGD	O2G-C1B-C2B	3.47	118.98	111.50
31	1s	317	LUT	C20-C13-C14	-3.47	118.06	122.92
29	1b	607	CLA	C1-C2-C3	-3.47	121.14	126.75
29	1D	405	CLA	C4D-CHA-C1A	-3.47	117.03	121.25
29	1g	604	CLA	C4D-CHA-C1A	-3.47	117.03	121.25
29	1b	616	CLA	CAC-C3C-C4C	3.47	129.31	124.81
29	1c	509	CLA	C1D-CHD-C4C	-3.47	118.57	126.06
30	02	604	CHL	C3D-C4D-ND	3.47	115.85	110.24
29	00	303	CLA	C3B-C4B-NB	3.47	113.73	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	503	CLA	C3B-C4B-NB	3.47	113.73	110.52
29	1B	601	CLA	C4D-CHA-C1A	-3.47	117.03	121.25
30	07	311	CHL	CAA-C2A-C3A	-3.47	108.00	116.10
29	1N	314	CLA	CAC-C3C-C4C	3.47	129.31	124.81
29	02	611	CLA	CHC-C4B-NB	-3.47	120.59	124.26
29	1r	314	CLA	CHB-C4A-NA	3.47	129.31	124.51
30	1g	607	CHL	CHB-C4A-NA	3.47	129.31	124.51
30	1N	307	CHL	C1D-ND-C4D	-3.47	103.87	106.33
29	01	310	CLA	CHD-C1D-ND	-3.47	121.27	124.45
29	05	312	CLA	C3D-C2D-C1D	-3.47	101.10	105.83
29	05	311	CLA	C1D-CHD-C4C	-3.47	118.58	126.06
29	1G	603	CLA	CMC-C2C-C1C	3.47	130.32	125.04
30	08	301	CHL	C1D-ND-C4D	-3.47	103.87	106.33
29	1r	304	CLA	C2D-C1D-ND	3.47	112.66	110.10
29	08	312	CLA	CHC-C1C-C2C	-3.47	117.10	126.73
29	1D	401	CLA	C4A-NA-C1A	3.47	108.26	106.71
29	1S	306	CLA	CAC-C3C-C4C	3.47	129.31	124.81
29	1c	510	CLA	CHC-C4B-NB	-3.46	120.59	124.26
29	1r	312	CLA	C3B-C4B-NB	3.46	113.73	110.52
29	01	312	CLA	CHC-C4B-NB	-3.46	120.59	124.26
29	1n	614	CLA	CHC-C1C-C2C	-3.46	117.11	126.73
30	03	303	CHL	CHB-C1B-NB	-3.46	120.59	124.26
29	1R	302	CLA	C1D-CHD-C4C	-3.46	118.59	126.06
29	04	307	CLA	CHB-C1B-NB	-3.46	120.59	124.26
29	1R	311	CLA	CHB-C1B-NB	-3.46	120.59	124.26
29	1g	603	CLA	CHB-C1B-NB	-3.46	120.59	124.26
29	05	310	CLA	C1D-CHD-C4C	-3.46	118.59	126.06
30	1N	309	CHL	CAC-C3C-C4C	3.46	129.30	124.81
30	05	307	CHL	C3B-C4B-NB	3.46	113.73	110.52
29	1s	312	CLA	CHC-C4B-NB	-3.46	120.59	124.26
29	1D	404	CLA	CMC-C2C-C1C	3.46	130.31	125.04
29	1r	312	CLA	CHC-C1C-C2C	-3.46	117.12	126.73
29	1r	303	CLA	CHC-C4B-NB	-3.46	120.59	124.26
29	00	318	CLA	CMC-C2C-C1C	3.46	130.31	125.04
30	1N	306	CHL	C3D-C4D-ND	3.46	115.83	110.24
29	1g	603	CLA	CHC-C1C-C2C	-3.46	117.12	126.73
29	06	610	CLA	CHC-C1C-C2C	-3.46	117.12	126.73
29	1g	613	CLA	C4C-C3C-C2C	-3.46	101.86	106.90
29	1S	306	CLA	CAA-C2A-C3A	-3.46	108.03	116.10
29	1N	304	CLA	C4D-CHA-C1A	-3.46	117.04	121.25
29	09	309	CLA	CAC-C3C-C4C	3.46	129.29	124.81
29	1b	607	CLA	CHC-C1C-C2C	-3.46	117.13	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1R	312	CLA	CHC-C1C-C2C	-3.46	117.13	126.73
35	1A	409	BCR	C12-C13-C14	3.46	124.24	118.94
29	1r	312	CLA	CHB-C1B-NB	-3.45	120.60	124.26
29	1N	311	CLA	CAC-C3C-C4C	3.45	129.29	124.81
29	1S	314	CLA	CAC-C3C-C4C	3.45	129.29	124.81
29	08	310	CLA	CHC-C1C-C2C	-3.45	117.14	126.73
29	1G	604	CLA	C3B-C4B-NB	3.45	113.72	110.52
29	00	310	CLA	CHC-C4B-NB	-3.45	120.60	124.26
29	1G	604	CLA	CAC-C3C-C4C	3.45	129.29	124.81
30	1n	606	CHL	CMB-C2B-C1B	3.45	130.63	125.37
29	03	301	CLA	CHC-C4B-NB	-3.45	120.60	124.26
29	03	308	CLA	CBD-CHA-C1A	3.45	132.57	128.50
35	1c	516	BCR	C15-C16-C17	3.45	130.54	123.47
30	04	302	CHL	C3D-C4D-ND	3.45	115.82	110.24
29	1c	514	CLA	C2D-C1D-ND	3.45	112.65	110.10
29	1N	315	CLA	CHB-C1B-NB	-3.45	120.60	124.26
35	1Z	102	BCR	C8-C9-C10	3.45	124.24	118.94
29	1c	510	CLA	CAC-C3C-C4C	3.45	129.29	124.81
29	02	602	CLA	CHC-C1C-C2C	-3.45	117.15	126.73
29	1a	408	CLA	C1D-CHD-C4C	-3.45	118.62	126.06
35	1J	101	BCR	C35-C13-C14	-3.45	118.09	122.92
29	05	301	CLA	CHC-C4B-NB	-3.45	120.61	124.26
29	1G	613	CLA	CHB-C1B-NB	-3.45	120.61	124.26
29	05	310	CLA	C2D-C1D-ND	3.45	112.64	110.10
29	1c	504	CLA	CHB-C1B-NB	-3.45	120.61	124.26
29	04	306	CLA	CMD-C2D-C3D	-3.45	119.68	127.61
35	1Z	102	BCR	C15-C16-C17	3.45	130.54	123.47
30	1r	305	CHL	C3D-C4D-ND	3.45	115.81	110.24
29	1c	505	CLA	CHC-C1C-C2C	-3.45	117.16	126.73
29	1g	603	CLA	C1D-CHD-C4C	-3.45	118.62	126.06
29	1b	604	CLA	C4-C3-C5	3.45	121.07	115.27
29	1b	604	CLA	CHD-C1D-ND	-3.45	121.29	124.45
30	00	308	CHL	C1C-C2C-C3C	-3.44	104.38	107.11
29	1B	615	CLA	CHB-C1B-NB	-3.44	120.61	124.26
29	1G	611	CLA	CHB-C4A-NA	3.44	129.27	124.51
29	00	303	CLA	CAC-C3C-C4C	3.44	129.28	124.81
29	1G	611	CLA	C4A-NA-C1A	3.44	108.25	106.71
29	04	311	CLA	CHC-C4B-NB	-3.44	120.61	124.26
29	05	309	CLA	CHB-C1B-NB	-3.44	120.61	124.26
29	1C	506	CLA	C4D-CHA-C1A	-3.44	117.06	121.25
30	1N	310	CHL	C3D-C4D-ND	3.44	115.81	110.24
29	01	313	CLA	CHC-C1C-C2C	-3.44	117.17	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1R	304	CHL	CHB-C4A-NA	3.44	129.27	124.51
31	07	313	LUT	C35-C15-C14	3.44	130.52	123.47
29	1g	612	CLA	CHB-C4A-NA	3.44	129.27	124.51
30	1g	609	CHL	CHB-C4A-NA	3.44	129.27	124.51
30	03	305	CHL	CAC-C3C-C4C	3.44	129.27	124.81
29	1C	509	CLA	CMD-C2D-C3D	-3.44	119.70	127.61
30	1G	609	CHL	C3D-C4D-ND	3.44	115.80	110.24
29	1a	408	CLA	CHC-C4B-NB	-3.44	120.62	124.26
29	1r	314	CLA	CHC-C1C-C2C	-3.44	117.18	126.73
45	1E	103	HEM	CHB-C1B-NB	3.44	128.61	124.37
29	1b	604	CLA	C3B-C4B-NB	3.44	113.70	110.52
30	04	303	CHL	CHC-C4B-NB	-3.44	120.62	124.26
30	1n	601	CHL	CMD-C2D-C3D	-3.44	119.71	127.61
29	1G	604	CLA	CMB-C2B-C1B	3.44	130.60	125.37
29	1r	314	CLA	CHC-C4B-NB	-3.44	120.62	124.26
29	1s	311	CLA	CHC-C4B-NB	-3.44	120.62	124.26
29	1A	404	CLA	C4D-CHA-C1A	-3.44	117.07	121.25
29	1d	407	CLA	C4D-CHA-C1A	-3.44	117.07	121.25
29	1D	402	CLA	C1D-CHD-C4C	-3.44	118.64	126.06
30	1R	313	CHL	C3D-C4D-ND	3.44	115.80	110.24
30	1s	310	CHL	CAC-C3C-C4C	3.44	129.27	124.81
29	1s	305	CLA	C2D-C1D-ND	3.44	112.64	110.10
29	1c	514	CLA	CBC-CAC-C3C	-3.44	102.96	112.43
29	1R	309	CLA	CHB-C1B-NB	-3.44	120.62	124.26
29	00	310	CLA	C1D-CHD-C4C	-3.44	118.65	126.06
29	1g	613	CLA	C1D-CHD-C4C	-3.44	118.65	126.06
29	1c	504	CLA	CMB-C2B-C1B	3.43	130.60	125.37
29	1A	404	CLA	CAC-C3C-C4C	3.43	129.26	124.81
30	1R	305	CHL	C3D-C4D-ND	3.43	115.79	110.24
29	1b	608	CLA	CAC-C3C-C4C	3.43	129.26	124.81
29	00	311	CLA	CHD-C1D-ND	-3.43	121.30	124.45
29	03	309	CLA	CHB-C4A-NA	3.43	129.26	124.51
29	08	309	CLA	C1C-C2C-C3C	-3.43	103.35	106.96
29	00	310	CLA	CHB-C1B-NB	-3.43	120.63	124.26
29	01	308	CLA	CMB-C2B-C1B	3.43	130.59	125.37
29	1g	603	CLA	C4D-CHA-C1A	-3.43	117.08	121.25
29	1b	607	CLA	CMD-C2D-C3D	-3.43	119.73	127.61
29	1c	505	CLA	C4C-C3C-C2C	-3.43	101.90	106.90
29	07	308	CLA	CHC-C1C-C2C	-3.43	117.21	126.73
29	00	318	CLA	C1D-CHD-C4C	-3.43	118.66	126.06
31	09	313	LUT	C19-C9-C10	-3.43	118.12	122.92
29	1R	309	CLA	C4C-C3C-C2C	-3.43	101.90	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1g	604	CLA	C1-C2-C3	-3.43	121.21	126.75
29	1r	308	CLA	CHC-C1C-C2C	-3.43	117.21	126.73
29	1B	603	CLA	CMB-C2B-C1B	3.43	130.59	125.37
29	1r	302	CLA	CAC-C3C-C4C	3.43	129.25	124.81
29	01	313	CLA	CHC-C4B-NB	-3.43	120.63	124.26
30	00	308	CHL	C3D-C4D-ND	3.42	115.78	110.24
30	04	305	CHL	CMB-C2B-C1B	3.42	130.59	125.37
40	1E	102	PL9	C7-C3-C4	3.42	119.66	116.88
29	02	602	CLA	CHB-C1B-NB	-3.42	120.63	124.26
29	1b	604	CLA	C1D-CHD-C4C	-3.42	118.67	126.06
30	1r	307	CHL	CAC-C3C-C4C	3.42	129.25	124.81
29	03	307	CLA	CHC-C4B-NB	-3.42	120.63	124.26
29	1C	509	CLA	C3D-C2D-C1D	-3.42	101.16	105.83
29	1R	307	CLA	C4C-C3C-C2C	-3.42	101.91	106.90
29	1n	610	CLA	C3B-C4B-NB	3.42	113.69	110.52
30	1G	601	CHL	CHB-C1B-NB	-3.42	120.63	124.26
29	1R	312	CLA	C2D-C1D-ND	3.42	112.63	110.10
29	1r	314	CLA	C3B-C4B-NB	3.42	113.69	110.52
30	05	307	CHL	CAA-C2A-C3A	-3.42	108.11	116.10
29	1d	407	CLA	CHB-C4A-NA	3.42	129.24	124.51
30	06	605	CHL	C3D-C4D-ND	3.42	115.77	110.24
29	09	312	CLA	CHC-C4B-NB	-3.42	120.64	124.26
29	1s	305	CLA	CHD-C1D-ND	-3.42	121.31	124.45
30	01	302	CHL	CHB-C4A-NA	3.42	129.24	124.51
31	1g	615	LUT	C19-C9-C10	-3.42	118.13	122.92
29	1G	613	CLA	CHC-C4B-NB	-3.42	120.64	124.26
29	1b	605	CLA	CHC-C4B-NB	-3.42	120.64	124.26
30	06	601	CHL	C3D-C4D-ND	3.42	115.77	110.24
29	04	309	CLA	CMD-C2D-C3D	-3.42	119.75	127.61
29	1G	613	CLA	CHC-C1C-C2C	-3.42	117.23	126.73
29	1C	503	CLA	CAC-C3C-C4C	3.42	129.25	124.81
29	1c	511	CLA	CAC-C3C-C4C	3.42	129.25	124.81
29	1A	404	CLA	CMD-C2D-C3D	-3.42	119.75	127.61
29	1N	312	CLA	CHC-C4B-NB	-3.42	120.64	124.26
29	1N	313	CLA	CHC-C4B-NB	-3.42	120.64	124.26
29	1R	314	CLA	CHC-C1C-C2C	-3.42	117.24	126.73
29	1a	405	CLA	C1D-CHD-C4C	-3.42	118.69	126.06
29	00	302	CLA	C4D-CHA-C1A	-3.42	117.09	121.25
29	1G	611	CLA	CHC-C4B-NB	-3.42	120.64	124.26
35	1A	409	BCR	C36-C18-C17	-3.42	118.14	122.92
30	07	306	CHL	CAA-C2A-C3A	-3.42	108.13	116.10
29	1R	310	CLA	CHC-C4B-NB	-3.42	120.64	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1n	603	CLA	CMB-C2B-C1B	3.42	130.57	125.37
29	1b	602	CLA	C4D-CHA-C1A	-3.41	117.09	121.25
30	1N	310	CHL	CHB-C4A-NA	3.41	129.23	124.51
29	1B	616	CLA	C3B-C4B-NB	3.41	113.68	110.52
29	1b	604	CLA	CAC-C3C-C4C	3.41	129.24	124.81
46	1g	617	XAT	O4-C5-C4	3.41	115.95	113.38
35	1j	101	BCR	C35-C13-C14	-3.41	118.14	122.92
29	03	306	CLA	CMC-C2C-C1C	3.41	130.24	125.04
29	03	301	CLA	C1D-CHD-C4C	-3.41	118.70	126.06
29	1B	603	CLA	C3B-C4B-NB	3.41	113.68	110.52
29	1s	311	CLA	C3B-C4B-NB	3.41	113.68	110.52
29	08	311	CLA	CMA-C3A-C2A	-3.41	108.14	116.10
29	09	310	CLA	CHC-C1C-C2C	-3.41	117.26	126.73
30	1g	605	CHL	CHB-C4A-NA	3.41	129.23	124.51
29	1a	406	CLA	C1D-CHD-C4C	-3.41	118.70	126.06
31	1S	317	LUT	C39-C29-C28	3.41	123.45	118.08
29	1g	614	CLA	CHC-C1C-C2C	-3.41	117.26	126.73
29	1c	506	CLA	CHC-C1C-C2C	-3.41	117.26	126.73
29	1B	614	CLA	C4D-CHA-C1A	-3.41	117.10	121.25
29	01	308	CLA	CHB-C4A-NA	3.41	129.22	124.51
29	09	317	CLA	C1C-C2C-C3C	-3.41	103.37	106.96
30	09	304	CHL	CAA-C2A-C3A	-3.41	108.15	116.10
29	1g	612	CLA	C3B-C4B-NB	3.41	113.67	110.52
29	1B	611	CLA	CHC-C4B-NB	-3.41	120.65	124.26
29	09	301	CLA	CHB-C4A-NA	3.41	129.22	124.51
29	1n	603	CLA	CHB-C1B-NB	-3.41	120.65	124.26
29	1R	310	CLA	CHC-C1C-C2C	-3.41	117.27	126.73
29	1G	603	CLA	CAC-C3C-C4C	3.41	129.23	124.81
29	1C	501	CLA	CHC-C1C-C2C	-3.40	117.27	126.73
29	1B	616	CLA	CHC-C4B-NB	-3.40	120.65	124.26
46	1G	619	XAT	C7-C8-C9	-3.40	120.25	125.53
30	00	305	CHL	C1D-ND-C4D	-3.40	103.92	106.33
30	04	305	CHL	C3D-C4D-ND	3.40	115.74	110.24
29	08	306	CLA	CHC-C4B-NB	-3.40	120.66	124.26
29	1b	617	CLA	CAC-C3C-C4C	3.40	129.22	124.81
29	1B	614	CLA	CHB-C4A-NA	3.40	129.22	124.51
29	1n	611	CLA	CAC-C3C-C4C	3.40	129.22	124.81
29	00	311	CLA	CHC-C4B-NB	-3.40	120.66	124.26
29	1n	613	CLA	C4C-C3C-C2C	-3.40	101.94	106.90
29	1C	509	CLA	CHC-C4B-NB	-3.40	120.66	124.26
29	09	317	CLA	C1D-CHD-C4C	-3.40	118.73	126.06
29	1R	312	CLA	CAC-C3C-C4C	3.40	129.22	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1N	303	CLA	CMC-C2C-C1C	3.40	130.21	125.04
29	1r	302	CLA	C1D-CHD-C4C	-3.40	118.73	126.06
46	1G	617	XAT	C26-C27-C28	-3.40	118.81	125.99
29	1B	608	CLA	C3B-C4B-NB	3.40	113.67	110.52
29	05	303	CLA	CHC-C1C-C2C	-3.40	117.30	126.73
29	1r	310	CLA	CHC-C1C-C2C	-3.40	117.30	126.73
29	1b	604	CLA	CHC-C4B-NB	-3.39	120.66	124.26
30	1s	304	CHL	C3D-C4D-ND	3.39	115.73	110.24
29	08	306	CLA	C2D-C1D-ND	3.39	112.61	110.10
30	1n	606	CHL	C2D-C1D-ND	3.39	112.61	110.10
29	1S	311	CLA	C1D-CHD-C4C	-3.39	118.74	126.06
30	1R	313	CHL	CAC-C3C-C4C	3.39	129.21	124.81
29	1R	309	CLA	CAC-C3C-C4C	3.39	129.21	124.81
30	04	304	CHL	C3D-C4D-ND	3.39	115.73	110.24
30	06	606	CHL	C3D-C4D-ND	3.39	115.73	110.24
30	1s	309	CHL	C3D-C4D-ND	3.39	115.72	110.24
29	1B	602	CLA	C3B-C4B-NB	3.39	113.66	110.52
29	1c	513	CLA	CHB-C4A-NA	3.39	129.20	124.51
29	1n	611	CLA	C1D-CHD-C4C	-3.39	118.74	126.06
30	1G	605	CHL	CAC-C3C-C4C	3.39	129.21	124.81
29	1n	610	CLA	O2D-CGD-CBD	3.39	117.29	111.27
30	02	606	CHL	C3D-C4D-ND	3.39	115.72	110.24
46	1g	619	XAT	C11-C12-C13	-3.39	116.89	126.42
30	05	306	CHL	C3D-C4D-ND	3.39	115.72	110.24
29	1R	306	CLA	CHC-C1C-C2C	-3.39	117.32	126.73
35	1Z	101	BCR	C36-C18-C17	-3.39	118.18	122.92
29	00	310	CLA	CHC-C1C-C2C	-3.39	117.32	126.73
35	1B	619	BCR	C12-C13-C14	3.39	124.14	118.94
30	06	606	CHL	CAC-C3C-C4C	3.39	129.21	124.81
31	03	313	LUT	C39-C29-C28	3.39	123.41	118.08
29	1b	616	CLA	C2D-C1D-ND	3.39	112.60	110.10
29	00	302	CLA	C3B-C4B-NB	3.39	113.66	110.52
30	09	305	CHL	C3B-C4B-NB	3.39	113.66	110.52
29	1N	313	CLA	CHB-C1B-NB	-3.39	120.67	124.26
29	1r	311	CLA	C1D-CHD-C4C	-3.39	118.75	126.06
30	06	604	CHL	C3D-C4D-ND	3.39	115.72	110.24
30	02	605	CHL	C2D-C1D-ND	3.39	112.60	110.10
31	1G	616	LUT	C1-C6-C7	3.39	125.36	115.78
29	1C	513	CLA	C4C-C3C-C2C	-3.38	101.96	106.90
29	02	609	CLA	CHB-C1B-NB	-3.38	120.67	124.26
29	1R	302	CLA	CHC-C4B-NB	-3.38	120.67	124.26
29	07	310	CLA	CAC-C3C-C4C	3.38	129.20	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	04	305	CHL	CHB-C1B-NB	-3.38	120.67	124.26
29	07	302	CLA	C2B-C1B-NB	3.38	112.50	110.23
30	1G	605	CHL	C3D-C4D-ND	3.38	115.71	110.24
29	01	313	CLA	CHB-C1B-NB	-3.38	120.68	124.26
29	1R	310	CLA	CHB-C1B-NB	-3.38	120.68	124.26
30	1g	609	CHL	C3D-C4D-ND	3.38	115.71	110.24
30	1r	313	CHL	C3D-C4D-ND	3.38	115.71	110.24
29	1S	312	CLA	C2D-C1D-ND	3.38	112.60	110.10
46	1R	316	XAT	C35-C15-C14	3.38	130.40	123.47
31	1n	615	LUT	C1-C6-C5	-3.38	117.85	122.61
29	1b	610	CLA	C2D-C1D-ND	3.38	112.59	110.10
29	1c	511	CLA	CHD-C1D-ND	-3.38	121.35	124.45
29	1B	612	CLA	O2D-CGD-O1D	-3.38	117.23	123.84
35	1B	618	BCR	C12-C13-C14	3.38	124.13	118.94
29	06	609	CLA	CHC-C4B-NB	-3.38	120.68	124.26
29	1C	503	CLA	C4D-CHA-C1A	-3.38	117.14	121.25
29	1n	611	CLA	CHD-C1D-ND	-3.38	121.35	124.45
29	02	612	CLA	C4A-NA-C1A	3.38	108.22	106.71
29	1B	612	CLA	CMC-C2C-C1C	3.38	130.18	125.04
29	1c	511	CLA	CHC-C4B-NB	-3.38	120.68	124.26
29	1N	313	CLA	C1D-CHD-C4C	-3.38	118.77	126.06
31	1G	616	LUT	C39-C29-C30	-3.38	118.19	122.92
29	04	312	CLA	C1D-CHD-C4C	-3.38	118.77	126.06
29	1n	604	CLA	C3B-C4B-NB	3.38	113.65	110.52
29	1b	616	CLA	CHB-C4A-NA	3.38	129.18	124.51
29	1B	603	CLA	CHB-C1B-NB	-3.38	120.68	124.26
30	1G	608	CHL	CAC-C3C-C4C	3.38	129.19	124.81
35	1d	409	BCR	C35-C13-C14	-3.38	118.19	122.92
29	00	301	CLA	C1C-C2C-C3C	-3.37	103.41	106.96
29	08	309	CLA	CHB-C1B-NB	-3.37	120.69	124.26
29	1S	316	CLA	CHC-C1C-C2C	-3.37	117.36	126.73
30	01	302	CHL	CAC-C3C-C4C	3.37	129.19	124.81
29	1B	604	CLA	C3B-C4B-NB	3.37	113.64	110.52
30	1G	609	CHL	CAA-C2A-C3A	-3.37	108.23	116.10
29	00	312	CLA	CHC-C4B-NB	-3.37	120.69	124.26
29	1G	614	CLA	CHC-C4B-NB	-3.37	120.69	124.26
29	06	611	CLA	C2D-C1D-ND	3.37	112.59	110.10
30	07	311	CHL	CAC-C3C-C4C	3.37	129.19	124.81
29	02	614	CLA	CMB-C2B-C1B	3.37	130.50	125.37
30	02	603	CHL	C3D-C4D-ND	3.37	115.69	110.24
29	1C	501	CLA	C3B-C4B-NB	3.37	113.64	110.52
29	1B	602	CLA	CMD-C2D-C3D	-3.37	119.86	127.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	00	306	CHL	C1D-ND-C4D	-3.37	103.94	106.33
29	1B	615	CLA	C1D-CHD-C4C	-3.37	118.79	126.06
29	1b	602	CLA	C3B-C4B-NB	3.37	113.64	110.52
29	01	301	CLA	C1-C2-C3	-3.37	120.22	126.04
29	1C	512	CLA	C2D-C1D-ND	3.37	112.59	110.10
29	07	307	CLA	CAA-C2A-C3A	-3.37	108.24	116.10
29	1S	306	CLA	C3B-C4B-NB	3.37	113.64	110.52
29	1n	611	CLA	CHC-C1C-C2C	-3.37	117.38	126.73
31	03	313	LUT	C1-C6-C7	3.37	125.30	115.78
30	09	308	CHL	CHB-C4A-NA	3.37	129.17	124.51
29	1B	615	CLA	C2D-C1D-ND	3.37	112.58	110.10
29	01	310	CLA	CHC-C4B-NB	-3.37	120.69	124.26
29	1C	509	CLA	CHB-C1B-NB	-3.37	120.69	124.26
29	1s	314	CLA	CHB-C1B-NB	-3.37	120.69	124.26
29	1A	407	CLA	CAC-C3C-C4C	3.37	129.18	124.81
31	07	313	LUT	C1-C6-C7	3.37	125.30	115.78
29	04	314	CLA	C3D-C2D-C1D	-3.37	101.24	105.83
30	1s	310	CHL	C3D-C4D-ND	3.37	115.68	110.24
29	1b	614	CLA	C4D-CHA-C1A	-3.37	117.15	121.25
29	1r	308	CLA	CHB-C1B-NB	-3.37	120.69	124.26
29	1c	509	CLA	CHB-C4A-NA	3.37	129.17	124.51
29	01	310	CLA	C1D-CHD-C4C	-3.37	118.80	126.06
30	03	311	CHL	C3D-C4D-ND	3.36	115.68	110.24
29	1C	503	CLA	CHC-C4B-NB	-3.36	120.70	124.26
29	04	311	CLA	C1D-CHD-C4C	-3.36	118.80	126.06
31	1N	316	LUT	C39-C29-C28	3.36	123.38	118.08
29	1b	614	CLA	C4-C3-C5	3.36	120.93	115.27
29	00	312	CLA	CHB-C4A-NA	3.36	129.16	124.51
29	05	309	CLA	C1D-CHD-C4C	-3.36	118.81	126.06
29	1S	313	CLA	CHB-C4A-NA	3.36	129.16	124.51
29	1C	506	CLA	CHC-C1C-C2C	-3.36	117.39	126.73
30	1S	307	CHL	C3D-C4D-ND	3.36	115.67	110.24
29	02	612	CLA	CHB-C1B-NB	-3.36	120.70	124.26
29	06	610	CLA	CHC-C4B-NB	-3.36	120.70	124.26
30	1G	605	CHL	CAA-C2A-C3A	-3.36	108.26	116.10
29	1N	312	CLA	CHB-C1B-NB	-3.36	120.70	124.26
29	1C	505	CLA	CHB-C4A-NA	3.36	129.16	124.51
29	05	311	CLA	C4C-C3C-C2C	-3.36	102.00	106.90
29	1G	602	CLA	CMC-C2C-C1C	3.36	130.15	125.04
29	1b	606	CLA	C1-C2-C3	-3.36	120.23	126.04
30	08	305	CHL	CHB-C4A-NA	3.36	129.16	124.51
29	03	301	CLA	CHB-C1B-NB	-3.36	120.70	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	610	CLA	C1D-CHD-C4C	-3.36	118.81	126.06
29	1g	614	CLA	CHB-C4A-NA	3.36	129.16	124.51
30	04	301	CHL	C1D-ND-C4D	-3.36	103.95	106.33
29	06	602	CLA	CHB-C4A-NA	3.36	129.15	124.51
30	1S	304	CHL	C3D-C4D-ND	3.36	115.67	110.24
29	08	306	CLA	C3B-C4B-NB	3.36	113.63	110.52
45	1E	103	HEM	CHA-C4D-ND	3.36	128.51	124.37
30	09	307	CHL	C3D-C4D-ND	3.36	115.67	110.24
30	07	303	CHL	CAC-C3C-C4C	3.36	129.16	124.81
30	00	307	CHL	C4-C3-C5	3.36	120.92	115.27
29	1C	503	CLA	C4C-C3C-C2C	-3.36	102.01	106.90
30	05	307	CHL	C3D-C4D-ND	3.35	115.67	110.24
29	1b	610	CLA	C4C-C3C-C2C	-3.35	102.01	106.90
29	1G	610	CLA	CHC-C4B-NB	-3.35	120.71	124.26
30	08	304	CHL	CHB-C4A-NA	3.35	129.15	124.51
29	1g	610	CLA	CMB-C2B-C1B	3.35	130.48	125.37
29	04	309	CLA	CHC-C1C-C2C	-3.35	117.42	126.73
31	1s	317	LUT	C12-C13-C14	3.35	124.09	118.94
29	1G	611	CLA	CHB-C1B-NB	-3.35	120.71	124.26
30	03	305	CHL	CHB-C4A-NA	3.35	129.15	124.51
29	1c	504	CLA	C4C-C3C-C2C	-3.35	102.01	106.90
29	1C	510	CLA	C4D-CHA-C1A	-3.35	117.17	121.25
30	00	304	CHL	C3D-C4D-ND	3.35	115.66	110.24
33	00	317	LHG	O7-C7-C8	3.35	118.73	111.50
30	07	304	CHL	CAA-C2A-C3A	-3.35	108.28	116.10
29	1b	606	CLA	C2D-C1D-ND	3.35	112.57	110.10
30	08	305	CHL	C3D-C4D-ND	3.35	115.66	110.24
29	1b	604	CLA	C4C-C3C-C2C	-3.35	102.01	106.90
29	1B	607	CLA	CHB-C4A-NA	3.35	129.14	124.51
29	1N	303	CLA	CHB-C1B-NB	-3.35	120.71	124.26
29	1n	613	CLA	CHC-C1C-C2C	-3.35	117.43	126.73
29	1r	312	CLA	C4C-C3C-C2C	-3.35	102.02	106.90
35	1b	601	BCR	C30-C25-C24	3.35	125.25	115.78
29	1C	508	CLA	CHD-C1D-ND	-3.35	121.38	124.45
29	01	310	CLA	CHC-C1C-C2C	-3.35	117.44	126.73
30	1N	309	CHL	C3B-C4B-NB	3.35	113.62	110.52
29	02	609	CLA	CHB-C4A-NA	3.35	129.14	124.51
40	1E	102	PL9	C37-C38-C39	-3.34	119.61	127.66
29	07	309	CLA	CMD-C2D-C3D	-3.34	119.92	127.61
30	05	313	CHL	C3D-C4D-ND	3.34	115.65	110.24
30	08	302	CHL	C3D-C4D-ND	3.34	115.65	110.24
29	1g	603	CLA	CAC-C3C-C4C	3.34	129.15	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	610	CLA	CHB-C1B-NB	-3.34	120.72	124.26
29	1r	303	CLA	CHB-C1B-NB	-3.34	120.72	124.26
29	1G	613	CLA	CHB-C4A-NA	3.34	129.14	124.51
30	01	306	CHL	CHB-C4A-NA	3.34	129.14	124.51
30	09	306	CHL	CHB-C4A-NA	3.34	129.14	124.51
30	1n	608	CHL	C3D-C4D-ND	3.34	115.65	110.24
29	1s	316	CLA	C3B-C4B-NB	3.34	113.62	110.52
29	05	301	CLA	C1D-CHD-C4C	-3.34	118.85	126.06
29	1B	616	CLA	O2A-CGA-CBA	3.34	122.40	111.91
29	1N	304	CLA	C1D-CHD-C4C	-3.34	118.85	126.06
29	1s	307	CLA	CAC-C3C-C4C	3.34	129.15	124.81
29	1r	311	CLA	CHB-C1B-NB	-3.34	120.72	124.26
29	1G	602	CLA	C4C-C3C-C2C	-3.34	102.03	106.90
29	1s	306	CLA	CMD-C2D-C3D	-3.34	119.93	127.61
30	00	304	CHL	CHB-C4A-NA	3.34	129.13	124.51
29	1b	608	CLA	C1D-CHD-C4C	-3.34	118.85	126.06
29	04	308	CLA	CHC-C1C-C2C	-3.34	117.45	126.73
29	1C	505	CLA	CHD-C1D-ND	-3.34	121.39	124.45
29	02	609	CLA	CHC-C4B-NB	-3.34	120.72	124.26
30	1n	608	CHL	CHB-C4A-NA	3.34	129.13	124.51
29	08	308	CLA	CAC-C3C-C4C	3.34	129.14	124.81
29	1B	615	CLA	CHC-C1C-C2C	-3.34	117.46	126.73
30	04	304	CHL	CAC-C3C-C4C	3.34	129.14	124.81
30	09	308	CHL	C3D-C4D-ND	3.34	115.64	110.24
29	1B	601	CLA	O2A-CGA-CBA	3.34	122.38	111.91
30	1n	607	CHL	CHB-C1B-NB	-3.34	120.72	124.26
29	1B	604	CLA	CHC-C1C-C2C	-3.34	117.46	126.73
29	01	313	CLA	CAC-C3C-C4C	3.34	129.14	124.81
29	1s	311	CLA	CMD-C2D-C3D	-3.34	119.94	127.61
31	1N	316	LUT	C19-C9-C8	3.34	123.33	118.08
30	07	306	CHL	C3D-C4D-ND	3.33	115.63	110.24
29	1b	610	CLA	CHC-C4B-NB	-3.33	120.73	124.26
29	08	312	CLA	C3B-C4B-NB	3.33	113.61	110.52
29	06	607	CLA	CHC-C1C-C2C	-3.33	117.47	126.73
29	01	308	CLA	C1D-CHD-C4C	-3.33	118.87	126.06
29	1C	502	CLA	CHB-C4A-NA	3.33	129.12	124.51
29	1c	504	CLA	CHB-C4A-NA	3.33	129.12	124.51
29	00	309	CLA	CHC-C4B-NB	-3.33	120.73	124.26
30	08	304	CHL	C3D-C4D-ND	3.33	115.63	110.24
29	07	309	CLA	C3B-C4B-NB	3.33	113.61	110.52
29	1n	611	CLA	CHB-C1B-NB	-3.33	120.73	124.26
29	06	609	CLA	C3B-C4B-NB	3.33	113.61	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	308	CLA	CHB-C1B-NB	-3.33	120.73	124.26
29	09	312	CLA	CHB-C1B-NB	-3.33	120.73	124.26
29	1S	306	CLA	CHB-C1B-NB	-3.33	120.73	124.26
29	02	610	CLA	CAC-C3C-C4C	3.33	129.13	124.81
29	05	301	CLA	CAC-C3C-C4C	3.33	129.13	124.81
30	1n	605	CHL	CHB-C1B-NB	-3.33	120.73	124.26
29	05	309	CLA	CAC-C3C-C4C	3.33	129.13	124.81
29	1R	311	CLA	C1D-CHD-C4C	-3.33	118.87	126.06
29	04	309	CLA	CHB-C1B-NB	-3.33	120.73	124.26
29	1s	313	CLA	C1D-CHD-C4C	-3.33	118.88	126.06
29	1s	315	CLA	C1D-CHD-C4C	-3.33	118.88	126.06
29	09	303	CLA	CAA-C2A-C3A	-3.33	108.33	116.10
30	1r	307	CHL	CHB-C4A-NA	3.33	129.11	124.51
29	01	312	CLA	C4C-C3C-C2C	-3.33	102.05	106.90
29	04	311	CLA	CHB-C1B-NB	-3.33	120.73	124.26
29	04	314	CLA	CMD-C2D-C3D	-3.33	119.96	127.61
29	04	309	CLA	CAC-C3C-C4C	3.33	129.13	124.81
29	1b	606	CLA	CHB-C1B-NB	-3.33	120.74	124.26
29	04	311	CLA	C2D-C1D-ND	3.33	112.56	110.10
29	06	607	CLA	C2D-C1D-ND	3.33	112.56	110.10
29	1g	613	CLA	CMC-C2C-C1C	3.33	130.10	125.04
29	1r	310	CLA	C1D-CHD-C4C	-3.33	118.88	126.06
29	03	307	CLA	C3B-C4B-NB	3.33	113.60	110.52
29	1b	617	CLA	C3B-C4B-NB	3.33	113.60	110.52
29	1C	505	CLA	C4C-C3C-C2C	-3.33	102.05	106.90
30	1S	309	CHL	C3D-C4D-ND	3.32	115.62	110.24
29	1c	506	CLA	C3B-C4B-NB	3.32	113.60	110.52
29	1b	602	CLA	CHC-C4B-NB	-3.32	120.74	124.26
29	1s	311	CLA	CHB-C1B-NB	-3.32	120.74	124.26
31	1r	315	LUT	C39-C29-C28	3.32	123.31	118.08
29	07	307	CLA	C3B-C4B-NB	3.32	113.60	110.52
29	09	301	CLA	CHD-C1D-ND	-3.32	121.40	124.45
29	1r	312	CLA	CHC-C4B-NB	-3.32	120.74	124.26
29	04	308	CLA	C1D-CHD-C4C	-3.32	118.89	126.06
29	1n	611	CLA	O2D-CGD-O1D	-3.32	117.34	123.84
31	1G	616	LUT	C1-C6-C5	-3.32	117.93	122.61
29	02	610	CLA	C1D-CHD-C4C	-3.32	118.89	126.06
35	1J	101	BCR	C12-C13-C14	3.32	124.04	118.94
29	1r	303	CLA	C3B-C4B-NB	3.32	113.60	110.52
46	1G	619	XAT	C26-C27-C28	-3.32	118.97	125.99
29	1b	606	CLA	C1D-CHD-C4C	-3.32	118.89	126.06
30	02	601	CHL	C3D-C4D-ND	3.32	115.61	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1j	101	BCR	C30-C25-C24	3.32	125.17	115.78
35	1Z	102	BCR	C35-C13-C14	-3.32	118.27	122.92
45	1E	103	HEM	CHD-C1D-C2D	-3.32	119.79	124.98
29	1N	311	CLA	C2D-C1D-ND	3.32	112.55	110.10
29	02	613	CLA	CHB-C4A-NA	3.32	129.10	124.51
35	1j	101	BCR	C12-C13-C14	3.32	124.03	118.94
29	1g	603	CLA	CMB-C2B-C1B	3.32	130.42	125.37
29	1C	501	CLA	CAC-C3C-C4C	3.32	129.12	124.81
29	00	318	CLA	CHC-C1C-C2C	-3.32	117.51	126.73
30	08	301	CHL	C3D-C4D-ND	3.32	115.61	110.24
29	1b	614	CLA	CHB-C4A-NA	3.32	129.10	124.51
29	1b	612	CLA	C2D-C1D-ND	3.32	112.55	110.10
29	00	301	CLA	C4C-C3C-C2C	-3.32	102.06	106.90
31	1S	317	LUT	C19-C9-C10	-3.32	118.28	122.92
29	1D	405	CLA	CAC-C3C-C4C	3.32	129.11	124.81
29	1G	612	CLA	CHB-C1B-NB	-3.32	120.75	124.26
29	1c	514	CLA	CHC-C4B-NB	-3.32	120.75	124.26
30	02	607	CHL	C3D-C4D-ND	3.32	115.60	110.24
29	1c	512	CLA	C1-C2-C3	-3.32	120.31	126.04
29	1B	605	CLA	C1D-CHD-C4C	-3.32	118.91	126.06
40	1a	412	PL9	C37-C38-C39	-3.31	119.68	127.66
29	1b	615	CLA	CHB-C4A-NA	3.31	129.10	124.51
29	1C	504	CLA	CAC-C3C-C4C	3.31	129.11	124.81
29	1G	614	CLA	CAC-C3C-C4C	3.31	129.11	124.81
30	1g	608	CHL	CAC-C3C-C4C	3.31	129.11	124.81
30	08	303	CHL	C3D-C4D-ND	3.31	115.60	110.24
46	1g	617	XAT	C4-C3-C2	-3.31	104.37	110.77
29	04	314	CLA	CHC-C1C-C2C	-3.31	117.53	126.73
30	03	303	CHL	C1D-ND-C4D	-3.31	103.98	106.33
29	1G	614	CLA	CHB-C1B-NB	-3.31	120.75	124.26
29	1b	605	CLA	CHB-C1B-NB	-3.31	120.75	124.26
29	1r	309	CLA	CHC-C4B-NB	-3.31	120.75	124.26
29	1g	612	CLA	CHD-C1D-ND	-3.31	121.41	124.45
29	1c	504	CLA	CHD-C1D-ND	-3.31	121.41	124.45
29	1B	611	CLA	O2D-CGD-CBD	3.31	117.15	111.27
29	05	308	CLA	CMA-C3A-C2A	-3.31	108.37	116.10
29	1a	405	CLA	CMC-C2C-C1C	3.31	130.08	125.04
31	1s	317	LUT	C35-C15-C14	3.31	130.25	123.47
30	02	606	CHL	CHB-C4A-NA	3.31	129.09	124.51
30	1S	308	CHL	CHB-C4A-NA	3.31	129.09	124.51
35	1D	406	BCR	C35-C13-C14	-3.31	118.29	122.92
30	05	315	CHL	C3D-C4D-ND	3.31	115.59	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	1r	316	XAT	C10-C11-C12	3.31	133.54	123.22
30	08	303	CHL	CHB-C4A-NA	3.31	129.09	124.51
29	08	311	CLA	CHB-C1B-NB	-3.31	120.75	124.26
35	1Z	101	BCR	C35-C13-C14	-3.31	118.29	122.92
30	1g	601	CHL	C3D-C4D-ND	3.31	115.59	110.24
31	09	314	LUT	C39-C29-C28	3.31	123.29	118.08
29	03	307	CLA	C1D-CHD-C4C	-3.31	118.92	126.06
29	09	309	CLA	CMC-C2C-C1C	3.31	130.08	125.04
30	07	311	CHL	C3D-C4D-ND	3.31	115.59	110.24
29	1C	506	CLA	CMB-C2B-C1B	3.31	130.41	125.37
31	01	315	LUT	C1-C6-C7	3.31	125.14	115.78
29	05	309	CLA	CHB-C4A-NA	3.31	129.09	124.51
29	00	309	CLA	CAC-C3C-C4C	3.31	129.10	124.81
29	01	309	CLA	CAC-C3C-C4C	3.31	129.10	124.81
29	1c	510	CLA	C2D-C1D-ND	3.31	112.54	110.10
30	1n	601	CHL	C1-C2-C3	-3.31	120.33	126.04
30	1G	609	CHL	CHB-C4A-NA	3.31	129.08	124.51
29	1C	503	CLA	CHC-C1C-C2C	-3.30	117.55	126.73
30	07	304	CHL	C3D-C4D-ND	3.30	115.58	110.24
35	1b	618	BCR	C38-C26-C25	3.30	128.24	124.53
35	1h	101	BCR	C1-C6-C7	3.30	125.13	115.78
29	1s	315	CLA	CMB-C2B-C1B	3.30	130.40	125.37
29	1b	604	CLA	O2A-CGA-CBA	3.30	122.28	111.91
29	1n	603	CLA	C3B-C4B-NB	3.30	113.58	110.52
29	1S	310	CLA	CAC-C3C-C4C	3.30	129.09	124.81
29	04	306	CLA	CHC-C1C-C2C	-3.30	117.56	126.73
35	1D	406	BCR	C38-C26-C25	3.30	128.24	124.53
29	1s	312	CLA	CHB-C4A-NA	3.30	129.08	124.51
29	1n	612	CLA	C3B-C4B-NB	3.30	113.58	110.52
29	01	311	CLA	CHB-C1B-NB	-3.30	120.76	124.26
29	1N	303	CLA	C1D-CHD-C4C	-3.30	118.94	126.06
46	1g	617	XAT	C40-C33-C34	-3.30	118.30	122.92
29	1s	315	CLA	C2D-C1D-ND	3.30	112.54	110.10
30	02	605	CHL	C3D-C4D-ND	3.30	115.58	110.24
29	09	311	CLA	C4C-C3C-C2C	-3.30	102.09	106.90
30	04	305	CHL	CAC-C3C-C4C	3.30	129.09	124.81
29	1c	503	CLA	C2D-C1D-ND	3.30	112.53	110.10
30	1G	601	CHL	C3D-C4D-ND	3.30	115.57	110.24
29	1n	614	CLA	CHC-C4B-NB	-3.30	120.77	124.26
29	1r	311	CLA	C3B-C4B-NB	3.30	113.58	110.52
30	1N	302	CHL	C1D-ND-C4D	-3.30	103.99	106.33
31	07	313	LUT	C20-C13-C14	-3.30	118.30	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1g	614	CLA	CHC-C4B-NB	-3.30	120.77	124.26
29	02	608	CLA	C1D-CHD-C4C	-3.30	118.94	126.06
29	1b	617	CLA	C1D-CHD-C4C	-3.30	118.94	126.06
29	1G	610	CLA	C2D-C1D-ND	3.30	112.53	110.10
29	01	312	CLA	CHB-C4A-NA	3.30	129.07	124.51
29	1B	616	CLA	CHB-C4A-NA	3.30	129.07	124.51
29	1A	404	CLA	CHC-C1C-C2C	-3.30	117.57	126.73
29	1b	605	CLA	C3D-C2D-C1D	-3.30	101.33	105.83
29	08	308	CLA	C1D-CHD-C4C	-3.30	118.95	126.06
29	02	613	CLA	CHC-C4B-NB	-3.30	120.77	124.26
29	1n	612	CLA	CHB-C4A-NA	3.30	129.07	124.51
29	1R	314	CLA	C3B-C4B-NB	3.30	113.57	110.52
30	1s	309	CHL	CHB-C4A-NA	3.29	129.07	124.51
29	1s	316	CLA	CHB-C4A-NA	3.29	129.07	124.51
35	1h	101	BCR	C36-C18-C17	-3.29	118.31	122.92
29	06	608	CLA	CHC-C4B-NB	-3.29	120.77	124.26
29	1a	408	CLA	C2D-C1D-ND	3.29	112.53	110.10
29	09	303	CLA	CAC-C3C-C4C	3.29	129.08	124.81
29	1N	313	CLA	C3B-C4B-NB	3.29	113.57	110.52
29	1S	315	CLA	CMD-C2D-C3D	-3.29	120.04	127.61
29	1b	616	CLA	C4D-CHA-C1A	-3.29	117.24	121.25
30	05	313	CHL	CHB-C4A-NA	3.29	129.06	124.51
35	1A	409	BCR	C16-C15-C14	3.29	130.22	123.47
29	1d	407	CLA	C1D-CHD-C4C	-3.29	118.96	126.06
29	1g	611	CLA	CHD-C1D-ND	-3.29	121.43	124.45
29	1N	315	CLA	CHC-C1C-C2C	-3.29	117.59	126.73
29	1A	407	CLA	C4C-C3C-C2C	-3.29	102.10	106.90
30	01	302	CHL	C3D-C4D-ND	3.29	115.56	110.24
31	1n	615	LUT	C20-C13-C14	-3.29	118.32	122.92
29	1a	406	CLA	CHC-C1C-C2C	-3.29	117.59	126.73
29	1N	305	CLA	CAC-C3C-C4C	3.29	129.08	124.81
29	1S	311	CLA	CHD-C1D-ND	-3.29	121.43	124.45
30	03	302	CHL	C3D-C4D-ND	3.29	115.56	110.24
30	01	306	CHL	CMB-C2B-C1B	3.29	130.38	125.37
29	1N	311	CLA	CHB-C4A-NA	3.29	129.06	124.51
30	03	302	CHL	CHB-C4A-NA	3.29	129.06	124.51
29	1b	610	CLA	C4D-CHA-C1A	-3.29	117.25	121.25
30	01	306	CHL	C1C-C2C-C3C	-3.29	104.50	107.11
29	1R	306	CLA	CAC-C3C-C4C	3.29	129.07	124.81
30	1N	309	CHL	CHB-C4A-NA	3.29	129.06	124.51
29	1R	310	CLA	C3B-C4B-NB	3.29	113.56	110.52
29	1g	611	CLA	C2D-C1D-ND	3.29	112.53	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	07	301	CLA	C1D-CHD-C4C	-3.29	118.97	126.06
29	02	609	CLA	CAC-C3C-C4C	3.29	129.07	124.81
29	1S	316	CLA	CHB-C1B-NB	-3.29	120.78	124.26
30	08	302	CHL	CHB-C4A-NA	3.29	129.06	124.51
29	07	309	CLA	CHB-C1B-NB	-3.29	120.78	124.26
29	1b	603	CLA	CMB-C2B-C1B	3.28	130.37	125.37
29	1b	605	CLA	CMB-C2B-C1B	3.28	130.37	125.37
29	1s	305	CLA	C4C-C3C-C2C	-3.28	102.11	106.90
29	03	312	CLA	CHB-C1B-NB	-3.28	120.78	124.26
35	1b	619	BCR	C33-C5-C6	3.28	128.22	124.53
29	1C	512	CLA	C4C-C3C-C2C	-3.28	102.11	106.90
29	07	308	CLA	C2D-C1D-ND	3.28	112.52	110.10
29	1c	507	CLA	CHC-C1C-C2C	-3.28	117.61	126.73
29	1C	510	CLA	C1D-CHD-C4C	-3.28	118.98	126.06
30	00	304	CHL	CAC-C3C-C4C	3.28	129.07	124.81
30	07	303	CHL	CHB-C4A-NA	3.28	129.05	124.51
29	1g	613	CLA	CMB-C2B-C1B	3.28	130.37	125.37
29	1S	315	CLA	C2D-C1D-ND	3.28	112.52	110.10
29	1B	601	CLA	CHB-C4A-NA	3.28	129.05	124.51
29	1N	304	CLA	CAC-C3C-C4C	3.28	129.07	124.81
35	1b	601	BCR	C33-C5-C6	3.28	128.21	124.53
30	08	304	CHL	CHB-C1B-NB	-3.28	120.78	124.26
30	1g	606	CHL	C3D-C4D-ND	3.28	115.54	110.24
30	03	305	CHL	C3D-C4D-ND	3.28	115.54	110.24
29	1S	313	CLA	C1D-CHD-C4C	-3.28	118.98	126.06
29	01	313	CLA	CHB-C4A-NA	3.28	129.05	124.51
29	1B	610	CLA	C4C-C3C-C2C	-3.28	102.12	106.90
31	1S	318	LUT	C39-C29-C28	3.28	123.24	118.08
29	05	309	CLA	C2D-C1D-ND	3.28	112.52	110.10
29	1g	613	CLA	CHC-C1C-C2C	-3.28	117.62	126.73
29	03	307	CLA	CHB-C4A-NA	3.28	129.04	124.51
30	1r	313	CHL	CHB-C4A-NA	3.28	129.04	124.51
30	1N	302	CHL	CAC-C3C-C4C	3.28	129.06	124.81
29	09	317	CLA	C4C-C3C-C2C	-3.28	102.12	106.90
29	04	309	CLA	C1D-CHD-C4C	-3.28	118.99	126.06
30	07	311	CHL	CHB-C4A-NA	3.28	129.04	124.51
30	1G	608	CHL	CHB-C4A-NA	3.28	129.04	124.51
29	1r	308	CLA	CHD-C1D-ND	-3.28	121.44	124.45
30	00	308	CHL	CHB-C4A-NA	3.28	129.04	124.51
30	04	301	CHL	C3D-C4D-ND	3.28	115.54	110.24
40	1E	102	PL9	C12-C13-C14	-3.27	119.78	127.66
29	08	311	CLA	CHC-C1C-C2C	-3.27	117.64	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	512	CLA	CAC-C3C-C4C	3.27	129.06	124.81
29	1c	506	CLA	CAC-C3C-C4C	3.27	129.06	124.81
29	02	614	CLA	CHB-C1B-NB	-3.27	120.79	124.26
29	00	318	CLA	CMB-C2B-C1B	3.27	130.35	125.37
30	01	304	CHL	CHB-C4A-NA	3.27	129.04	124.51
29	1C	505	CLA	C3B-C4B-NB	3.27	113.55	110.52
29	1G	602	CLA	C4D-CHA-C1A	-3.27	117.27	121.25
35	1b	619	BCR	C35-C13-C14	-3.27	118.34	122.92
35	1d	409	BCR	C36-C18-C17	-3.27	118.34	122.92
29	1n	602	CLA	CHC-C1C-C2C	-3.27	117.64	126.73
29	1A	404	CLA	CHB-C4A-NA	3.27	129.04	124.51
29	05	302	CLA	CHB-C4A-NA	3.27	129.03	124.51
29	1g	612	CLA	CHC-C4B-NB	-3.27	120.80	124.26
29	1r	310	CLA	CHC-C4B-NB	-3.27	120.80	124.26
29	07	312	CLA	C2D-C1D-ND	3.27	112.51	110.10
29	1n	611	CLA	C4C-C3C-C2C	-3.27	102.13	106.90
29	1C	512	CLA	C1D-CHD-C4C	-3.27	119.01	126.06
29	02	611	CLA	C1D-CHD-C4C	-3.27	119.01	126.06
30	1n	609	CHL	CHB-C4A-NA	3.27	129.03	124.51
29	03	307	CLA	CAC-C3C-C4C	3.27	129.05	124.81
30	1n	609	CHL	C3D-C4D-ND	3.27	115.52	110.24
35	1d	409	BCR	C15-C16-C17	3.27	130.17	123.47
40	1R	301	PL9	C7-C3-C4	3.27	119.53	116.88
29	1C	503	CLA	C1D-CHD-C4C	-3.27	119.01	126.06
40	1a	412	PL9	C7-C3-C2	-3.27	119.00	123.30
29	1D	405	CLA	CHB-C4A-NA	3.27	129.03	124.51
29	01	312	CLA	C3B-C4B-NB	3.27	113.55	110.52
29	1B	601	CLA	CMB-C2B-C1B	3.27	130.34	125.37
30	02	601	CHL	CHB-C1B-NB	-3.27	120.80	124.26
30	02	601	CHL	CMB-C2B-C1B	3.27	130.34	125.37
29	01	301	CLA	CHC-C4B-NB	-3.26	120.80	124.26
29	1b	606	CLA	CAA-C2A-C3A	-3.26	103.84	112.78
30	07	303	CHL	C3D-C4D-ND	3.26	115.52	110.24
30	1G	606	CHL	C3D-C4D-ND	3.26	115.52	110.24
29	1S	312	CLA	C4C-C3C-C2C	-3.26	102.14	106.90
30	1g	608	CHL	CHB-C4A-NA	3.26	129.03	124.51
30	07	305	CHL	C3D-C4D-ND	3.26	115.52	110.24
29	1s	316	CLA	CHC-C1C-C2C	-3.26	117.67	126.73
30	01	305	CHL	C3D-C4D-ND	3.26	115.52	110.24
30	1G	608	CHL	C3D-C4D-ND	3.26	115.52	110.24
30	1N	309	CHL	C3D-C4D-ND	3.26	115.51	110.24
30	09	305	CHL	C3D-C4D-ND	3.26	115.51	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1a	408	CLA	CAC-C3C-C4C	3.26	129.04	124.81
29	1g	611	CLA	CHB-C1B-NB	-3.26	120.81	124.26
30	1N	308	CHL	CHB-C1B-NB	-3.26	120.81	124.26
45	1f	101	HEM	CHA-C4D-ND	3.26	128.40	124.37
29	1D	405	CLA	C3B-C4B-NB	3.26	113.54	110.52
29	00	318	CLA	C4C-C3C-C2C	-3.26	102.14	106.90
29	08	311	CLA	C4C-C3C-C2C	-3.26	102.14	106.90
35	1B	619	BCR	C1-C6-C7	3.26	125.00	115.78
29	1d	403	CLA	C1D-CHD-C4C	-3.26	119.03	126.06
29	1r	303	CLA	C1D-CHD-C4C	-3.26	119.03	126.06
40	1a	412	PL9	C15-C14-C16	3.26	120.75	115.27
29	01	310	CLA	CHB-C1B-NB	-3.26	120.81	124.26
29	06	609	CLA	CHB-C1B-NB	-3.26	120.81	124.26
35	1B	619	BCR	C38-C26-C25	3.26	128.19	124.53
29	00	302	CLA	CHB-C1B-NB	-3.26	120.81	124.26
29	04	307	CLA	C3B-C4B-NB	3.26	113.54	110.52
35	1B	618	BCR	C36-C18-C17	-3.26	118.36	122.92
29	03	312	CLA	C2D-C1D-ND	3.26	112.50	110.10
29	1R	306	CLA	CHB-C1B-NB	-3.26	120.81	124.26
29	1r	314	CLA	CHB-C1B-NB	-3.26	120.81	124.26
30	06	605	CHL	CHB-C4A-NA	3.26	129.02	124.51
30	02	607	CHL	CHB-C4A-NA	3.26	129.02	124.51
30	03	303	CHL	C1C-C2C-C3C	-3.26	104.53	107.11
29	01	301	CLA	C4C-C3C-C2C	-3.26	102.15	106.90
29	1b	603	CLA	C3B-C4B-NB	3.26	113.54	110.52
30	00	307	CHL	O2A-CGA-CBA	3.26	122.13	111.91
29	1n	610	CLA	CHB-C4A-NA	3.26	129.01	124.51
30	07	305	CHL	CHB-C4A-NA	3.26	129.01	124.51
29	1R	308	CLA	CAC-C3C-C4C	3.26	129.03	124.81
29	02	612	CLA	CMD-C2D-C3D	-3.26	120.12	127.61
29	09	312	CLA	C3B-C4B-NB	3.26	113.53	110.52
30	1R	303	CHL	C3D-C4D-ND	3.25	115.50	110.24
29	1S	311	CLA	CAC-C3C-C4C	3.25	129.03	124.81
29	1B	613	CLA	CMB-C2B-C1B	3.25	130.32	125.37
29	04	312	CLA	CHB-C4A-NA	3.25	129.01	124.51
31	1R	315	LUT	C20-C13-C14	-3.25	118.37	122.92
30	00	308	CHL	C11-C10-C8	-3.25	105.41	115.92
29	1N	312	CLA	CAC-C3C-C4C	3.25	129.03	124.81
29	1N	315	CLA	CHC-C4B-NB	-3.25	120.81	124.26
29	06	608	CLA	CAC-C3C-C4C	3.25	129.03	124.81
29	1n	614	CLA	CAC-C3C-C4C	3.25	129.03	124.81
29	1G	602	CLA	C1-C2-C3	-3.25	120.42	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	09	302	CLA	CHB-C4A-NA	3.25	129.01	124.51
29	1c	507	CLA	CHB-C4A-NA	3.25	129.01	124.51
29	1B	603	CLA	CHC-C4B-NB	-3.25	120.82	124.26
29	02	608	CLA	CHC-C1C-C2C	-3.25	117.70	126.73
29	1n	603	CLA	CAC-C3C-C4C	3.25	129.03	124.81
30	1r	306	CHL	CHB-C4A-NA	3.25	129.00	124.51
29	1g	614	CLA	C3B-C4B-NB	3.25	113.53	110.52
30	01	302	CHL	CHB-C1B-NB	-3.25	120.82	124.26
29	1b	615	CLA	CHC-C1C-C2C	-3.25	117.71	126.73
29	1G	614	CLA	C1D-CHD-C4C	-3.25	119.05	126.06
30	06	601	CHL	CHB-C4A-NA	3.25	129.00	124.51
29	03	309	CLA	CHB-C1B-NB	-3.25	120.82	124.26
29	1c	504	CLA	C4D-CHA-C1A	-3.25	117.30	121.25
29	1B	603	CLA	C4C-C3C-C2C	-3.25	102.17	106.90
29	1r	311	CLA	C4C-C3C-C2C	-3.25	102.17	106.90
29	04	308	CLA	CMD-C2D-C3D	-3.25	120.15	127.61
29	1b	603	CLA	C1D-CHD-C4C	-3.25	119.06	126.06
29	00	302	CLA	C1D-CHD-C4C	-3.25	119.06	126.06
29	06	610	CLA	C1D-CHD-C4C	-3.25	119.06	126.06
29	05	302	CLA	CHB-C1B-NB	-3.25	120.82	124.26
29	09	310	CLA	CHC-C4B-NB	-3.25	120.82	124.26
29	07	309	CLA	CHB-C4A-NA	3.24	129.00	124.51
29	1d	403	CLA	CHB-C1B-NB	-3.24	120.82	124.26
29	1R	302	CLA	CMC-C2C-C1C	3.24	129.98	125.04
30	1N	308	CHL	C3D-C4D-ND	3.24	115.48	110.24
29	02	613	CLA	C1D-CHD-C4C	-3.24	119.06	126.06
29	1R	306	CLA	C2D-C1D-ND	3.24	112.49	110.10
29	05	312	CLA	CAA-C2A-C3A	-3.24	108.53	116.10
29	1d	407	CLA	CAC-C3C-C4C	3.24	129.02	124.81
29	1c	509	CLA	C4-C3-C5	3.24	120.72	115.27
29	09	301	CLA	C4C-C3C-C2C	-3.24	102.17	106.90
29	04	307	CLA	C1D-CHD-C4C	-3.24	119.07	126.06
30	04	301	CHL	CHB-C4A-NA	3.24	128.99	124.51
29	1N	303	CLA	C4C-C3C-C2C	-3.24	102.17	106.90
40	1D	407	PL9	C7-C3-C4	3.24	119.51	116.88
29	1r	304	CLA	CHC-C1C-C2C	-3.24	117.73	126.73
30	02	604	CHL	CHB-C4A-NA	3.24	128.99	124.51
29	09	310	CLA	O2D-CGD-O1D	-3.24	117.51	123.84
29	09	311	CLA	CHD-C1D-ND	-3.24	121.48	124.45
29	1N	314	CLA	CHB-C4A-NA	3.24	128.99	124.51
30	03	311	CHL	CHB-C4A-NA	3.24	128.99	124.51
29	02	613	CLA	C3B-C4B-NB	3.24	113.52	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1R	312	CLA	C3B-C4B-NB	3.24	113.52	110.52
29	1s	306	CLA	C2D-C1D-ND	3.24	112.49	110.10
29	1C	512	CLA	CHC-C1C-C2C	-3.24	117.74	126.73
29	04	314	CLA	C3B-C4B-NB	3.24	113.52	110.52
29	1B	612	CLA	C3B-C4B-NB	3.24	113.52	110.52
34	1c	518	DGD	O1G-C1A-C2A	3.24	122.06	111.91
29	1D	404	CLA	CHC-C1C-C2C	-3.24	117.74	126.73
30	05	313	CHL	CHB-C1B-NB	-3.24	120.83	124.26
29	06	609	CLA	C2D-C1D-ND	3.23	112.49	110.10
29	1C	511	CLA	C4C-C3C-C2C	-3.23	102.18	106.90
29	1B	616	CLA	C1-C2-C3	-3.23	120.45	126.04
29	05	311	CLA	CHC-C1C-C2C	-3.23	117.75	126.73
29	1n	613	CLA	C4D-CHA-C1A	-3.23	117.31	121.25
29	06	607	CLA	CHC-C4B-NB	-3.23	120.83	124.26
30	02	603	CHL	CHB-C4A-NA	3.23	128.98	124.51
30	1G	606	CHL	CHB-C4A-NA	3.23	128.98	124.51
29	1c	505	CLA	C1D-CHD-C4C	-3.23	119.08	126.06
29	01	301	CLA	CMD-C2D-C3D	-3.23	120.18	127.61
29	00	318	CLA	CHB-C1B-NB	-3.23	120.83	124.26
29	07	308	CLA	CHB-C1B-NB	-3.23	120.83	124.26
30	1r	307	CHL	CHB-C1B-NB	-3.23	120.83	124.26
29	1b	602	CLA	CAC-C3C-C4C	3.23	129.00	124.81
29	1n	604	CLA	CAC-C3C-C4C	3.23	129.00	124.81
29	1c	511	CLA	C2D-C1D-ND	3.23	112.49	110.10
29	1n	613	CLA	CAC-C3C-C4C	3.23	129.00	124.81
31	01	314	LUT	C19-C9-C10	-3.23	118.40	122.92
29	05	303	CLA	CAC-C3C-C4C	3.23	129.00	124.81
29	07	301	CLA	CAC-C3C-C4C	3.23	129.00	124.81
29	07	302	CLA	CAC-C3C-C4C	3.23	129.00	124.81
29	1G	613	CLA	CAC-C3C-C4C	3.23	129.00	124.81
30	02	603	CHL	CHB-C1B-NB	-3.23	120.84	124.26
29	08	306	CLA	CAC-C3C-C4C	3.23	129.00	124.81
29	06	609	CLA	C1D-CHD-C4C	-3.23	119.09	126.06
29	05	310	CLA	C3B-C4B-NB	3.23	113.51	110.52
30	03	304	CHL	CHB-C1B-NB	-3.23	120.84	124.26
29	04	306	CLA	C1D-CHD-C4C	-3.23	119.09	126.06
30	1N	310	CHL	CAC-C3C-C4C	3.23	129.00	124.81
29	1b	607	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
29	1c	511	CLA	C4D-CHA-C1A	-3.23	117.32	121.25
30	09	307	CHL	CHB-C4A-NA	3.23	128.97	124.51
29	1b	615	CLA	C3B-C4B-NB	3.23	113.51	110.52
29	02	613	CLA	C2D-C1D-ND	3.23	112.48	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	610	CLA	C2D-C1D-ND	3.23	112.48	110.10
29	1b	617	CLA	C4D-CHA-C1A	-3.23	117.32	121.25
29	1C	510	CLA	CMD-C2D-C3D	-3.23	120.19	127.61
29	02	608	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
30	09	307	CHL	CAC-C3C-C4C	3.23	129.00	124.81
31	07	313	LUT	C40-C33-C34	-3.23	118.40	122.92
29	1S	316	CLA	CHC-C4B-NB	-3.23	120.84	124.26
29	1B	607	CLA	C4C-C3C-C2C	-3.23	102.20	106.90
29	1C	512	CLA	C1-O2A-CGA	3.23	124.91	116.44
29	02	611	CLA	C2D-C1D-ND	3.23	112.48	110.10
29	08	311	CLA	C1D-CHD-C4C	-3.22	119.10	126.06
46	1G	617	XAT	C31-C30-C29	-3.22	122.71	127.31
30	1s	310	CHL	CHB-C4A-NA	3.22	128.97	124.51
29	1g	603	CLA	C2D-C1D-ND	3.22	112.48	110.10
29	04	309	CLA	C3B-C4B-NB	3.22	113.51	110.52
29	1C	511	CLA	CHC-C1C-C2C	-3.22	117.78	126.73
29	1r	302	CLA	C4C-C3C-C2C	-3.22	102.20	106.90
29	07	301	CLA	C2D-C1D-ND	3.22	112.48	110.10
31	1S	318	LUT	C20-C13-C14	-3.22	118.41	122.92
29	07	312	CLA	CHB-C1B-NB	-3.22	120.85	124.26
29	1n	614	CLA	CHB-C1B-NB	-3.22	120.85	124.26
30	00	304	CHL	CHB-C1B-NB	-3.22	120.85	124.26
29	1S	316	CLA	C1D-CHD-C4C	-3.22	119.11	126.06
29	1b	609	CLA	C3B-C4B-NB	3.22	113.50	110.52
30	00	305	CHL	C3D-C4D-ND	3.22	115.45	110.24
30	01	303	CHL	C3D-C4D-ND	3.22	115.45	110.24
29	03	301	CLA	CHC-C1C-C2C	-3.22	117.78	126.73
29	02	612	CLA	CMB-C2B-C1B	3.22	130.27	125.37
29	1G	611	CLA	C4C-C3C-C2C	-3.22	102.20	106.90
29	1B	602	CLA	O2A-CGA-CBA	3.22	122.01	111.91
29	02	610	CLA	C3B-C4B-NB	3.22	113.50	110.52
29	1n	602	CLA	C4C-C3C-C2C	-3.22	102.20	106.90
29	02	614	CLA	CHB-C4A-NA	3.22	128.96	124.51
29	04	308	CLA	CMB-C2B-C1B	3.22	130.27	125.37
29	1r	304	CLA	C1D-CHD-C4C	-3.22	119.12	126.06
29	05	311	CLA	CAC-C3C-C4C	3.22	128.99	124.81
29	01	309	CLA	CHC-C4B-NB	-3.22	120.85	124.26
29	1R	311	CLA	CHB-C4A-NA	3.22	128.96	124.51
30	1s	308	CHL	C3D-C4D-ND	3.22	115.44	110.24
29	1C	511	CLA	CHB-C1B-NB	-3.22	120.85	124.26
29	1N	311	CLA	CHB-C1B-NB	-3.22	120.85	124.26
29	1B	602	CLA	C4C-C3C-C2C	-3.22	102.21	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	312	CLA	CMD-C2D-C3D	-3.22	120.22	127.61
29	1B	610	CLA	CMD-C2D-C3D	-3.22	120.22	127.61
29	1N	312	CLA	C3B-C4B-NB	3.22	113.50	110.52
29	05	311	CLA	CHB-C1B-NB	-3.22	120.85	124.26
45	1E	103	HEM	CHD-C4C-NC	3.22	127.92	124.44
29	06	607	CLA	C1D-CHD-C4C	-3.22	119.12	126.06
30	03	304	CHL	C3D-C4D-ND	3.21	115.44	110.24
29	1b	615	CLA	CAC-C3C-C4C	3.21	128.98	124.81
30	00	306	CHL	CHB-C1B-NB	-3.21	120.85	124.26
29	1C	511	CLA	C4A-NA-C1A	3.21	108.15	106.71
29	03	310	CLA	CHC-C1C-C2C	-3.21	117.80	126.73
29	1B	613	CLA	C4D-CHA-C1A	-3.21	117.34	121.25
31	01	314	LUT	C11-C10-C9	3.21	131.90	127.31
29	1R	311	CLA	CMD-C2D-C3D	-3.21	120.22	127.61
29	01	301	CLA	C4-C3-C5	3.21	120.68	115.27
29	01	311	CLA	CHB-C4A-NA	3.21	128.96	124.51
29	06	610	CLA	C3B-C4B-NB	3.21	113.50	110.52
35	1b	620	BCR	C16-C15-C14	3.21	130.05	123.47
29	02	602	CLA	C1D-CHD-C4C	-3.21	119.13	126.06
29	07	301	CLA	CHC-C1C-C2C	-3.21	117.81	126.73
29	04	310	CLA	CHB-C1B-NB	-3.21	120.86	124.26
29	1c	513	CLA	CMD-C2D-C3D	-3.21	120.23	127.61
30	1N	306	CHL	CAA-C2A-C3A	-3.21	108.61	116.10
29	1d	407	CLA	C3B-C4B-NB	3.21	113.49	110.52
29	1s	313	CLA	C3B-C4B-NB	3.21	113.49	110.52
29	1C	504	CLA	CHC-C1C-C2C	-3.21	117.81	126.73
29	1S	306	CLA	C1D-CHD-C4C	-3.21	119.13	126.06
30	07	303	CHL	CHB-C1B-NB	-3.21	120.86	124.26
29	1n	612	CLA	C2D-C1D-ND	3.21	112.47	110.10
29	1b	609	CLA	C1D-CHD-C4C	-3.21	119.13	126.06
29	1B	608	CLA	CHB-C4A-NA	3.21	128.95	124.51
30	1G	605	CHL	CHB-C4A-NA	3.21	128.95	124.51
29	1c	511	CLA	CMD-C2D-C3D	-3.21	120.23	127.61
40	1a	412	PL9	C35-C34-C36	3.21	120.67	115.27
29	1c	508	CLA	C1D-CHD-C4C	-3.21	119.14	126.06
29	1B	613	CLA	CHB-C4A-NA	3.21	128.95	124.51
30	04	303	CHL	C3D-C4D-ND	3.21	115.43	110.24
35	1B	617	BCR	C12-C13-C14	3.21	123.86	118.94
29	1R	314	CLA	CMD-C2D-C3D	-3.21	120.23	127.61
29	1g	612	CLA	C4C-C3C-C2C	-3.21	102.22	106.90
29	04	312	CLA	C3B-C4B-NB	3.21	113.49	110.52
29	1S	312	CLA	C3B-C4B-NB	3.21	113.49	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1g	605	CHL	C3D-C4D-ND	3.21	115.42	110.24
29	1D	401	CLA	CHB-C4A-NA	3.21	128.95	124.51
35	1I	102	BCR	C35-C13-C14	-3.21	118.43	122.92
29	05	309	CLA	C3B-C4B-NB	3.21	113.49	110.52
29	04	307	CLA	CHB-C4A-NA	3.21	128.94	124.51
30	1S	308	CHL	CAA-C2A-C3A	-3.21	108.62	116.10
29	1s	312	CLA	CHC-C1C-C2C	-3.20	117.83	126.73
29	05	309	CLA	CAA-C2A-C3A	-3.20	108.62	116.10
29	1n	614	CLA	C3B-C4B-NB	3.20	113.49	110.52
29	1r	308	CLA	C1D-CHD-C4C	-3.20	119.14	126.06
29	1G	612	CLA	CHB-C4A-NA	3.20	128.94	124.51
35	1i	101	BCR	C35-C13-C14	-3.20	118.44	122.92
29	00	302	CLA	C2D-C1D-ND	3.20	112.46	110.10
29	1s	314	CLA	C4C-C3C-C2C	-3.20	102.23	106.90
29	1C	507	CLA	C1D-CHD-C4C	-3.20	119.15	126.06
30	05	305	CHL	C3D-C4D-ND	3.20	115.42	110.24
29	1B	611	CLA	C3B-C4B-NB	3.20	113.48	110.52
29	1D	402	CLA	CHB-C1B-NB	-3.20	120.87	124.26
30	03	305	CHL	CHB-C1B-NB	-3.20	120.87	124.26
29	01	301	CLA	CHC-C1C-C2C	-3.20	117.84	126.73
38	1a	407	PHO	C2B-C1B-NB	-3.20	107.32	109.53
29	1g	610	CLA	C3B-C4B-NB	3.20	113.48	110.52
30	1n	609	CHL	CHB-C1B-NB	-3.20	120.87	124.26
29	03	312	CLA	CAC-C3C-C4C	3.20	128.96	124.81
29	1C	501	CLA	CHB-C4A-NA	3.20	128.94	124.51
29	07	307	CLA	C1D-CHD-C4C	-3.20	119.16	126.06
29	01	311	CLA	C4C-C3C-C2C	-3.20	102.24	106.90
29	1n	613	CLA	CMB-C2B-C1B	3.20	130.24	125.37
30	1n	609	CHL	C4-C3-C5	3.20	120.65	115.27
29	1b	615	CLA	CHC-C4B-NB	-3.20	120.87	124.26
29	1b	614	CLA	C4C-C3C-C2C	-3.20	102.24	106.90
29	1B	607	CLA	C4A-NA-C1A	3.20	108.14	106.71
30	05	306	CHL	CAC-C3C-C4C	3.20	128.96	124.81
29	1N	312	CLA	C1D-CHD-C4C	-3.20	119.16	126.06
29	1c	513	CLA	C1D-CHD-C4C	-3.20	119.16	126.06
29	1c	507	CLA	CHC-C4B-NB	-3.20	120.87	124.26
30	02	606	CHL	CHB-C1B-NB	-3.20	120.87	124.26
29	1b	610	CLA	CHB-C4A-NA	3.19	128.93	124.51
29	1g	611	CLA	C4C-C3C-C2C	-3.19	102.24	106.90
29	1N	312	CLA	CMD-C2D-C3D	-3.19	120.27	127.61
29	1r	314	CLA	C4C-C3C-C2C	-3.19	102.24	106.90
30	1n	606	CHL	C3D-C4D-ND	3.19	115.40	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	308	CLA	C4-C3-C5	3.19	120.64	115.27
30	1n	608	CHL	CAC-C3C-C4C	3.19	128.95	124.81
29	1G	613	CLA	C2D-C1D-ND	3.19	112.46	110.10
29	1r	312	CLA	C2D-C1D-ND	3.19	112.46	110.10
29	1N	315	CLA	C3B-C4B-NB	3.19	113.48	110.52
29	1R	306	CLA	C3B-C4B-NB	3.19	113.48	110.52
29	1C	511	CLA	CHD-C1D-ND	-3.19	121.52	124.45
46	1G	617	XAT	C11-C12-C13	-3.19	117.45	126.42
29	07	310	CLA	CHB-C1B-NB	-3.19	120.88	124.26
30	1g	605	CHL	CHB-C1B-NB	-3.19	120.88	124.26
30	07	311	CHL	C1C-C2C-C3C	-3.19	104.58	107.11
29	07	308	CLA	CMC-C2C-C1C	3.19	129.90	125.04
29	07	302	CLA	C4C-C3C-C2C	-3.19	102.25	106.90
30	09	306	CHL	CHB-C1B-NB	-3.19	120.88	124.26
29	1g	611	CLA	CHC-C4B-NB	-3.19	120.88	124.26
29	1C	513	CLA	CMB-C2B-C1B	3.19	130.22	125.37
30	1r	307	CHL	C3D-C4D-ND	3.19	115.39	110.24
29	05	312	CLA	CHC-C1C-C2C	-3.19	117.88	126.73
29	1B	616	CLA	CHD-C1D-ND	-3.19	121.53	124.45
29	1D	405	CLA	C1D-CHD-C4C	-3.18	119.19	126.06
30	05	315	CHL	CHB-C4A-NA	3.18	128.92	124.51
29	1G	603	CLA	CHC-C1C-C2C	-3.18	117.88	126.73
29	06	607	CLA	C4C-C3C-C2C	-3.18	102.26	106.90
29	1c	503	CLA	CHC-C1C-C2C	-3.18	117.89	126.73
29	1A	407	CLA	CHC-C4B-NB	-3.18	120.89	124.26
30	00	307	CHL	CHB-C1B-NB	-3.18	120.89	124.26
29	1G	603	CLA	CHB-C4A-NA	3.18	128.91	124.51
29	06	611	CLA	C4C-C3C-C2C	-3.18	102.26	106.90
29	03	309	CLA	CMD-C2D-C3D	-3.18	120.29	127.61
29	05	312	CLA	C2A-C1A-CHA	-3.18	118.30	123.85
29	1g	610	CLA	C1D-CHD-C4C	-3.18	119.19	126.06
29	1c	505	CLA	CHC-C4B-NB	-3.18	120.89	124.26
29	09	309	CLA	CHC-C1C-C2C	-3.18	117.89	126.73
46	1G	617	XAT	C8-C9-C10	3.18	123.83	118.94
30	1N	307	CHL	C3D-C4D-ND	3.18	115.39	110.24
29	06	608	CLA	C1D-CHD-C4C	-3.18	119.19	126.06
29	1S	305	CLA	C4C-C3C-C2C	-3.18	102.26	106.90
34	1S	320	DGD	O2G-C1B-C2B	3.18	118.36	111.50
30	04	303	CHL	C1C-C2C-C3C	-3.18	104.59	107.11
29	1s	307	CLA	C1D-CHD-C4C	-3.18	119.19	126.06
35	04	313	BCR	C36-C18-C17	-3.18	118.47	122.92
30	03	302	CHL	CHB-C1B-NB	-3.18	120.89	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	04	303	CHL	CHB-C1B-NB	-3.18	120.89	124.26
30	01	303	CHL	CHB-C4A-NA	3.18	128.91	124.51
29	1B	611	CLA	CHB-C4A-NA	3.18	128.91	124.51
29	1r	310	CLA	CHB-C4A-NA	3.18	128.91	124.51
29	05	310	CLA	CHB-C1B-NB	-3.18	120.89	124.26
35	1A	409	BCR	C19-C18-C17	3.18	123.82	118.94
29	02	610	CLA	C2D-C1D-ND	3.18	112.45	110.10
29	1s	312	CLA	C1D-CHD-C4C	-3.18	119.20	126.06
31	01	314	LUT	C20-C13-C14	-3.18	118.47	122.92
29	09	311	CLA	C3B-C4B-NB	3.18	113.46	110.52
31	1g	616	LUT	C1-C6-C7	3.18	124.77	115.78
30	1R	313	CHL	CMD-C2D-C3D	-3.18	120.30	127.61
29	1N	313	CLA	CHB-C4A-NA	3.18	128.91	124.51
29	08	310	CLA	C1D-CHD-C4C	-3.18	119.20	126.06
40	1a	412	PL9	C45-C44-C46	3.18	120.62	115.27
29	04	314	CLA	CHB-C4A-NA	3.18	128.91	124.51
29	1g	610	CLA	C4-C3-C5	3.18	120.61	115.27
29	00	312	CLA	CMB-C2B-C1B	3.18	130.21	125.37
29	1r	310	CLA	C4C-C3C-C2C	-3.17	102.27	106.90
29	08	307	CLA	CHC-C4B-NB	-3.17	120.90	124.26
29	00	310	CLA	CHB-C4A-NA	3.17	128.90	124.51
29	1B	606	CLA	C1D-CHD-C4C	-3.17	119.21	126.06
30	02	605	CHL	CHB-C4A-NA	3.17	128.90	124.51
46	1g	619	XAT	C12-C13-C14	3.17	123.81	118.94
29	1C	506	CLA	C4C-C3C-C2C	-3.17	102.27	106.90
29	1b	605	CLA	CAC-C3C-C4C	3.17	128.93	124.81
29	05	311	CLA	CHB-C4A-NA	3.17	128.90	124.51
29	00	302	CLA	CMD-C2D-C3D	-3.17	120.32	127.61
30	03	311	CHL	CAC-C3C-C4C	3.17	128.93	124.81
30	01	304	CHL	C3D-C4D-ND	3.17	115.37	110.24
29	02	614	CLA	CHC-C1C-C2C	-3.17	117.92	126.73
29	06	608	CLA	CHB-C1B-NB	-3.17	120.90	124.26
30	06	606	CHL	CHB-C4A-NA	3.17	128.90	124.51
29	04	310	CLA	C3B-C4B-NB	3.17	113.46	110.52
29	1b	605	CLA	CHD-C1D-ND	-3.17	121.54	124.45
30	04	305	CHL	CHB-C4A-NA	3.17	128.90	124.51
29	03	310	CLA	CAC-C3C-C4C	3.17	128.92	124.81
29	1g	604	CLA	C3B-C4B-NB	3.17	113.45	110.52
29	1c	510	CLA	C4D-CHA-C1A	-3.17	117.39	121.25
30	01	305	CHL	O2D-CGD-CBD	3.17	116.90	111.27
29	1R	312	CLA	CHB-C1B-NB	-3.17	120.90	124.26
29	1S	305	CLA	CHB-C1B-NB	-3.17	120.90	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	301	CLA	CHB-C4A-NA	3.17	128.89	124.51
29	1N	305	CLA	CMB-C2B-C1B	3.17	130.19	125.37
29	1G	614	CLA	C4C-C3C-C2C	-3.17	102.28	106.90
29	1G	614	CLA	CHB-C4A-NA	3.17	128.89	124.51
29	1s	314	CLA	CHB-C4A-NA	3.17	128.89	124.51
30	01	305	CHL	CHB-C4A-NA	3.17	128.89	124.51
30	05	305	CHL	C4-C3-C5	3.17	120.60	115.27
29	08	310	CLA	C2D-C1D-ND	3.17	112.44	110.10
30	05	305	CHL	CHB-C4A-NA	3.17	128.89	124.51
30	03	303	CHL	C3D-C4D-ND	3.17	115.36	110.24
30	00	306	CHL	CMB-C2B-C1B	3.17	130.19	125.37
29	1R	311	CLA	C3B-C4B-NB	3.17	113.45	110.52
29	1R	312	CLA	C1D-CHD-C4C	-3.17	119.23	126.06
29	09	312	CLA	CMD-C2D-C3D	-3.16	120.33	127.61
35	1B	630	BCR	C1-C6-C7	3.16	124.73	115.78
30	07	306	CHL	CHB-C4A-NA	3.16	128.89	124.51
29	1C	508	CLA	C2D-C1D-ND	3.16	112.44	110.10
29	02	611	CLA	CHB-C1B-NB	-3.16	120.91	124.26
29	1d	403	CLA	CMD-C2D-C3D	-3.16	120.34	127.61
29	1D	402	CLA	C2D-C1D-ND	3.16	112.44	110.10
29	1C	508	CLA	CMD-C2D-C3D	-3.16	120.34	127.61
35	1b	620	BCR	C30-C25-C24	3.16	124.72	115.78
31	01	315	LUT	C39-C29-C30	-3.16	118.49	122.92
29	1A	407	CLA	C1D-CHD-C4C	-3.16	119.24	126.06
29	01	313	CLA	C2D-C1D-ND	3.16	112.43	110.10
29	1B	616	CLA	CAC-C3C-C4C	3.16	128.91	124.81
40	1E	102	PL9	C40-C39-C41	3.16	120.59	115.27
29	1r	308	CLA	C4C-C3C-C2C	-3.16	102.29	106.90
35	1b	620	BCR	C35-C13-C14	-3.16	118.50	122.92
35	1B	630	BCR	C1-C6-C5	-3.16	118.16	122.61
29	1B	610	CLA	CHB-C4A-NA	3.16	128.88	124.51
30	02	601	CHL	CHB-C4A-NA	3.16	128.88	124.51
30	08	303	CHL	CAC-C3C-C4C	3.16	128.91	124.81
29	03	312	CLA	C4C-C3C-C2C	-3.16	102.29	106.90
29	1R	314	CLA	CHB-C1B-NB	-3.16	120.91	124.26
29	09	303	CLA	C1D-CHD-C4C	-3.16	119.24	126.06
29	1r	311	CLA	CHB-C4A-NA	3.16	128.88	124.51
30	1n	605	CHL	C3D-C4D-ND	3.16	115.35	110.24
29	1r	304	CLA	C4C-C3C-C2C	-3.16	102.29	106.90
30	1g	609	CHL	CHB-C1B-NB	-3.16	120.91	124.26
29	1b	610	CLA	CAC-C3C-C4C	3.16	128.91	124.81
29	08	308	CLA	CHB-C4A-NA	3.16	128.88	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	01	307	CLA	O2A-CGA-CBA	3.16	121.81	111.91
35	1B	630	BCR	C34-C9-C8	3.16	123.05	118.08
29	1s	315	CLA	CHB-C1B-NB	-3.16	120.92	124.26
30	07	304	CHL	CHB-C4A-NA	3.16	128.88	124.51
29	02	612	CLA	CHC-C4B-NB	-3.15	120.92	124.26
29	1G	611	CLA	C2D-C1D-ND	3.15	112.43	110.10
29	1R	307	CLA	CMA-C3A-C2A	-3.15	108.74	116.10
30	09	304	CHL	C3D-C4D-ND	3.15	115.34	110.24
29	04	311	CLA	CHB-C4A-NA	3.15	128.87	124.51
30	09	306	CHL	C3D-C4D-ND	3.15	115.34	110.24
31	1G	616	LUT	C15-C14-C13	3.15	131.81	127.31
29	03	306	CLA	CAC-C3C-C4C	3.15	128.90	124.81
29	1S	311	CLA	C4C-C3C-C2C	-3.15	102.30	106.90
29	1R	308	CLA	C1D-CHD-C4C	-3.15	119.26	126.06
41	1l	101	SQD	O47-C7-C8	3.15	118.29	111.50
29	1B	602	CLA	C3D-C2D-C1D	-3.15	101.53	105.83
29	1c	508	CLA	CAC-C3C-C4C	3.15	128.90	124.81
29	02	609	CLA	C1D-CHD-C4C	-3.15	119.26	126.06
29	07	312	CLA	CAC-C3C-C4C	3.15	128.90	124.81
29	1N	315	CLA	CAC-C3C-C4C	3.15	128.90	124.81
30	1S	304	CHL	C3B-C4B-NB	3.15	113.44	110.52
30	1R	313	CHL	CHB-C4A-NA	3.15	128.87	124.51
30	1S	309	CHL	CHB-C4A-NA	3.15	128.87	124.51
29	1B	612	CLA	CHC-C1C-C2C	-3.15	117.99	126.73
29	1B	605	CLA	C4D-CHA-C1A	-3.15	117.42	121.25
29	1N	304	CLA	CHB-C4A-NA	3.15	128.87	124.51
29	1n	611	CLA	CHB-C4A-NA	3.15	128.87	124.51
40	1A	410	PL9	C7-C3-C4	3.15	119.44	116.88
40	1E	102	PL9	C20-C19-C21	3.15	120.57	115.27
31	1s	317	LUT	C15-C35-C34	3.15	129.92	123.47
29	08	309	CLA	CHB-C4A-NA	3.15	128.86	124.51
29	1A	407	CLA	CHB-C4A-NA	3.15	128.86	124.51
30	1n	609	CHL	C1C-C2C-C3C	-3.15	104.62	107.11
30	1r	313	CHL	CAC-C3C-C4C	3.15	128.89	124.81
29	1G	602	CLA	C2D-C1D-ND	3.15	112.42	110.10
29	01	310	CLA	C4C-C3C-C2C	-3.15	102.31	106.90
35	1b	619	BCR	C38-C26-C25	3.15	128.06	124.53
29	1N	311	CLA	C4C-C3C-C2C	-3.14	102.31	106.90
29	1B	604	CLA	CHC-C4B-NB	-3.14	120.93	124.26
29	1S	305	CLA	CHC-C4B-NB	-3.14	120.93	124.26
29	1n	604	CLA	CMB-C2B-C1B	3.14	130.16	125.37
29	00	311	CLA	CHB-C4A-NA	3.14	128.86	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1S	304	CHL	CMD-C2D-C3D	-3.14	120.38	127.61
29	1B	609	CLA	C1D-CHD-C4C	-3.14	119.28	126.06
29	1R	302	CLA	C2D-C1D-ND	3.14	112.42	110.10
29	08	308	CLA	CMC-C2C-C1C	3.14	129.83	125.04
29	1R	310	CLA	C4C-C3C-C2C	-3.14	102.31	106.90
30	08	305	CHL	CHB-C1B-NB	-3.14	120.93	124.26
30	1S	308	CHL	CHB-C1B-NB	-3.14	120.93	124.26
30	02	605	CHL	C1D-ND-C4D	-3.14	104.10	106.33
29	07	301	CLA	C4C-C3C-C2C	-3.14	102.32	106.90
29	1r	302	CLA	CHC-C1C-C2C	-3.14	118.00	126.73
29	07	308	CLA	C3B-C4B-NB	3.14	113.43	110.52
29	03	309	CLA	C1D-CHD-C4C	-3.14	119.28	126.06
29	03	310	CLA	CMB-C2B-C1B	3.14	130.16	125.37
29	1R	307	CLA	CMB-C2B-C1B	3.14	130.16	125.37
29	1r	304	CLA	CMB-C2B-C1B	3.14	130.16	125.37
30	1N	306	CHL	CMB-C2B-C1B	3.14	130.16	125.37
29	1n	613	CLA	CHB-C4A-NA	3.14	128.86	124.51
29	1r	302	CLA	C2D-C1D-ND	3.14	112.42	110.10
29	03	308	CLA	CHB-C1B-NB	-3.14	120.93	124.26
29	09	317	CLA	CHB-C1B-NB	-3.14	120.93	124.26
30	1R	304	CHL	C3D-C4D-ND	3.14	115.32	110.24
30	1g	608	CHL	C3D-C4D-ND	3.14	115.32	110.24
29	1c	512	CLA	CHB-C1B-NB	-3.14	120.93	124.26
30	07	306	CHL	CHB-C1B-NB	-3.14	120.93	124.26
29	1b	607	CLA	O2A-CGA-CBA	3.14	121.77	111.91
30	1G	607	CHL	CMB-C2B-C1B	3.14	130.15	125.37
29	08	307	CLA	C3B-C4B-NB	3.14	113.43	110.52
30	1N	306	CHL	CHB-C1B-NB	-3.14	120.93	124.26
29	02	611	CLA	C3B-C4B-NB	3.14	113.43	110.52
35	1B	618	BCR	C38-C26-C25	3.14	128.05	124.53
29	1g	614	CLA	CAC-C3C-C4C	3.14	128.88	124.81
29	1n	611	CLA	CMD-C2D-C3D	-3.14	120.39	127.61
29	1n	613	CLA	C1D-CHD-C4C	-3.14	119.28	126.06
35	1a	409	BCR	C35-C13-C14	-3.14	118.53	122.92
29	04	308	CLA	C2D-C1D-ND	3.14	112.42	110.10
29	08	310	CLA	C4C-C3C-C2C	-3.14	102.32	106.90
29	05	312	CLA	C4A-NA-C1A	-3.14	105.30	106.71
29	04	308	CLA	C3B-C4B-NB	3.14	113.43	110.52
29	04	311	CLA	C3B-C4B-NB	3.14	113.43	110.52
29	1D	404	CLA	C3B-C4B-NB	3.14	113.43	110.52
29	01	310	CLA	CHB-C4A-NA	3.14	128.85	124.51
29	05	301	CLA	C2D-C1D-ND	3.14	112.42	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	611	CLA	C4D-CHA-C1A	-3.14	117.43	121.25
29	03	301	CLA	C4C-C3C-C2C	-3.14	102.33	106.90
29	1b	615	CLA	CMD-C2D-C3D	-3.14	120.40	127.61
29	1s	307	CLA	C3B-C4B-NB	3.14	113.42	110.52
29	1g	614	CLA	CMD-C2D-C3D	-3.14	120.40	127.61
29	1B	614	CLA	C1C-C2C-C3C	-3.14	103.66	106.96
29	09	311	CLA	C2D-C1D-ND	3.13	112.41	110.10
29	1d	403	CLA	C3B-C4B-NB	3.13	113.42	110.52
35	1h	101	BCR	C35-C13-C14	-3.13	118.53	122.92
29	1s	313	CLA	CAC-C3C-C4C	3.13	128.88	124.81
30	01	306	CHL	CAC-C3C-C4C	3.13	128.88	124.81
29	05	310	CLA	CHB-C4A-NA	3.13	128.84	124.51
29	07	310	CLA	CMB-C2B-C1B	3.13	130.14	125.37
30	04	304	CHL	CHB-C4A-NA	3.13	128.84	124.51
29	1C	501	CLA	C4C-C3C-C2C	-3.13	102.33	106.90
29	1B	609	CLA	C4D-CHA-C1A	-3.13	117.44	121.25
29	1c	508	CLA	C1-C2-C3	-3.13	120.63	126.04
29	05	301	CLA	C4C-C3C-C2C	-3.13	102.33	106.90
29	04	314	CLA	CAC-C3C-C4C	3.13	128.87	124.81
29	1C	510	CLA	CHB-C4A-NA	3.13	128.84	124.51
29	00	310	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
46	1r	316	XAT	C32-C33-C34	3.13	123.74	118.94
29	09	301	CLA	CMB-C2B-C1B	3.13	130.13	125.37
30	02	605	CHL	CMB-C2B-C1B	3.13	130.13	125.37
29	1r	311	CLA	CHC-C4B-NB	-3.13	120.94	124.26
29	09	312	CLA	CHB-C4A-NA	3.13	128.84	124.51
29	1B	609	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
29	1r	309	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
29	02	610	CLA	CHB-C1B-NB	-3.13	120.95	124.26
29	08	309	CLA	CMD-C2D-C3D	-3.13	120.42	127.61
29	1c	505	CLA	C1-C2-C3	-3.13	120.64	126.04
29	07	307	CLA	C2D-C1D-ND	3.13	112.41	110.10
29	1G	614	CLA	C3B-C4B-NB	3.12	113.41	110.52
29	1n	602	CLA	C1D-CHD-C4C	-3.12	119.32	126.06
31	00	314	LUT	C39-C29-C28	3.12	123.00	118.08
31	1R	315	LUT	C39-C29-C28	3.12	123.00	118.08
29	02	609	CLA	C3B-C4B-NB	3.12	113.41	110.52
29	09	310	CLA	C3B-C4B-NB	3.12	113.41	110.52
29	05	311	CLA	CMD-C2D-C3D	-3.12	120.43	127.61
29	1g	603	CLA	CHB-C4A-NA	3.12	128.83	124.51
29	1b	611	CLA	O2D-CGD-O1D	-3.12	117.73	123.84
30	00	307	CHL	CAC-C3C-C4C	3.12	128.86	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1N	305	CLA	C3B-C4B-NB	3.12	113.41	110.52
31	1s	318	LUT	C39-C29-C28	3.12	123.00	118.08
30	1S	304	CHL	OMC-CMC-C2C	-3.12	118.63	125.69
29	00	303	CLA	CMB-C2B-C1B	3.12	130.12	125.37
29	07	310	CLA	CHB-C4A-NA	3.12	128.83	124.51
29	09	310	CLA	CHB-C4A-NA	3.12	128.83	124.51
30	01	305	CHL	CAC-C3C-C4C	3.12	128.86	124.81
30	1S	308	CHL	C3D-C4D-ND	3.12	115.29	110.24
30	05	315	CHL	CAA-C2A-C3A	-3.12	108.81	116.10
30	1G	601	CHL	C1-C2-C3	-3.12	120.64	126.04
29	1s	315	CLA	CAC-C3C-C4C	3.12	128.86	124.81
30	1N	306	CHL	CAC-C3C-C4C	3.12	128.86	124.81
29	1R	310	CLA	C1-C2-C3	-3.12	121.70	126.75
29	05	308	CLA	CMC-C2C-C1C	3.12	129.79	125.04
29	1c	503	CLA	C1D-CHD-C4C	-3.12	119.33	126.06
29	1r	309	CLA	C1D-CHD-C4C	-3.12	119.33	126.06
29	1G	604	CLA	C4C-C3C-C2C	-3.12	102.35	106.90
30	09	308	CHL	C1C-C2C-C3C	-3.12	104.64	107.11
29	1S	312	CLA	CHB-C4A-NA	3.12	128.83	124.51
29	1s	305	CLA	CHB-C4A-NA	3.12	128.83	124.51
29	1S	312	CLA	CAC-C3C-C4C	3.12	128.86	124.81
29	1d	406	CLA	C1D-CHD-C4C	-3.12	119.33	126.06
29	08	308	CLA	C4C-C3C-C2C	-3.12	102.35	106.90
29	1N	304	CLA	CHC-C4B-NB	-3.12	120.96	124.26
29	07	301	CLA	CHB-C4A-NA	3.12	128.82	124.51
29	08	306	CLA	CHB-C4A-NA	3.12	128.82	124.51
30	1n	605	CHL	CAC-C3C-C4C	3.12	128.85	124.81
29	07	308	CLA	C4C-C3C-C2C	-3.12	102.36	106.90
29	1b	607	CLA	CHB-C1B-NB	-3.12	120.96	124.26
29	00	309	CLA	O2A-CGA-CBA	3.11	121.68	111.91
35	1Z	102	BCR	C36-C18-C17	-3.11	118.56	122.92
29	00	309	CLA	CMC-C2C-C1C	3.11	129.78	125.04
29	1N	313	CLA	CAC-C3C-C4C	3.11	128.85	124.81
29	1a	406	CLA	C1-C2-C3	-3.11	121.71	126.75
29	1C	502	CLA	C4D-CHA-C1A	-3.11	117.46	121.25
29	1r	303	CLA	CHB-C4A-NA	3.11	128.82	124.51
29	1a	408	CLA	CHC-C1C-C2C	-3.11	118.08	126.73
31	07	313	LUT	C15-C35-C34	3.11	129.85	123.47
29	05	303	CLA	C4C-C3C-C2C	-3.11	102.36	106.90
29	05	310	CLA	C4C-C3C-C2C	-3.11	102.36	106.90
29	08	311	CLA	CHB-C4A-NA	3.11	128.81	124.51
29	01	308	CLA	C2D-C1D-ND	3.11	112.40	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1s	316	CLA	CHB-C1B-NB	-3.11	120.96	124.26
29	07	308	CLA	CMB-C2B-C1B	3.11	130.11	125.37
31	05	314	LUT	C40-C33-C34	-3.11	118.57	122.92
29	1G	613	CLA	C1D-CHD-C4C	-3.11	119.35	126.06
29	03	309	CLA	C2D-C1D-ND	3.11	112.40	110.10
29	1N	313	CLA	C2D-C1D-ND	3.11	112.40	110.10
29	01	309	CLA	CMC-C2C-C1C	3.11	129.78	125.04
29	1B	605	CLA	C4C-C3C-C2C	-3.11	102.36	106.90
29	1D	404	CLA	CMD-C2D-C3D	-3.11	120.46	127.61
29	1s	312	CLA	O2A-CGA-CBA	3.11	121.67	111.91
29	1R	308	CLA	C4C-C3C-C2C	-3.11	102.37	106.90
30	1s	304	CHL	CHB-C4A-NA	3.11	128.81	124.51
35	04	313	BCR	C33-C5-C6	3.11	128.02	124.53
29	1r	308	CLA	C2D-C1D-ND	3.11	112.39	110.10
29	01	312	CLA	CHB-C1B-NB	-3.11	120.97	124.26
29	06	611	CLA	CHB-C1B-NB	-3.11	120.97	124.26
29	1B	607	CLA	C4D-CHA-C1A	-3.11	117.47	121.25
29	1C	501	CLA	C1D-CHD-C4C	-3.11	119.35	126.06
29	1b	613	CLA	C4C-C3C-C2C	-3.11	102.37	106.90
29	1s	311	CLA	C4C-C3C-C2C	-3.11	102.37	106.90
29	01	313	CLA	C1D-CHD-C4C	-3.11	119.35	126.06
30	05	306	CHL	CHB-C4A-NA	3.11	128.81	124.51
30	07	304	CHL	CHB-C1B-NB	-3.11	120.97	124.26
30	1R	305	CHL	CHB-C1B-NB	-3.11	120.97	124.26
29	1g	613	CLA	C1-C2-C3	-3.11	120.67	126.04
29	1B	605	CLA	CMB-C2B-C1B	3.11	130.10	125.37
29	02	609	CLA	C4C-C3C-C2C	-3.11	102.37	106.90
35	1Z	101	BCR	C16-C15-C14	3.11	129.84	123.47
29	1b	604	CLA	C3B-C2B-C1B	-3.11	103.41	107.16
29	00	312	CLA	C1D-CHD-C4C	-3.11	119.36	126.06
40	1E	102	PL9	C17-C18-C19	-3.10	120.18	127.66
29	1S	314	CLA	CHC-C1C-C2C	-3.10	118.11	126.73
29	02	611	CLA	C4C-C3C-C2C	-3.10	102.37	106.90
29	00	318	CLA	C3B-C4B-NB	3.10	113.39	110.52
29	1g	611	CLA	C3B-C4B-NB	3.10	113.39	110.52
29	04	314	CLA	C1D-CHD-C4C	-3.10	119.36	126.06
29	1d	403	CLA	CHC-C1C-C2C	-3.10	118.11	126.73
29	1N	303	CLA	CHB-C4A-NA	3.10	128.80	124.51
29	07	301	CLA	CHB-C1B-NB	-3.10	120.97	124.26
30	1R	304	CHL	CHB-C1B-NB	-3.10	120.97	124.26
29	03	306	CLA	C4C-C3C-C2C	-3.10	102.38	106.90
29	05	310	CLA	CHC-C4B-NB	-3.10	120.97	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1H	101	BCR	C19-C18-C17	3.10	123.70	118.94
29	08	312	CLA	CHB-C4A-NA	3.10	128.80	124.51
29	1r	311	CLA	CAC-C3C-C4C	3.10	128.83	124.81
29	1g	602	CLA	CHC-C4B-NB	-3.10	120.97	124.26
29	03	307	CLA	CMB-C2B-C1B	3.10	130.09	125.37
29	04	311	CLA	C4C-C3C-C2C	-3.10	102.38	106.90
29	1c	515	CLA	CHC-C1C-C2C	-3.10	118.12	126.73
30	1n	607	CHL	CMB-C2B-C1B	3.10	130.09	125.37
29	1r	309	CLA	CHB-C4A-NA	3.10	128.80	124.51
29	1b	611	CLA	CHB-C4A-NA	3.10	128.80	124.51
29	02	602	CLA	C4C-C3C-C2C	-3.10	102.38	106.90
29	08	308	CLA	C2D-C1D-ND	3.10	112.39	110.10
29	1r	309	CLA	C2D-C1D-ND	3.10	112.39	110.10
29	1g	610	CLA	O2A-CGA-CBA	3.10	121.63	111.91
29	1r	309	CLA	CAC-C3C-C4C	3.10	128.83	124.81
29	1S	310	CLA	CMC-C2C-C1C	3.10	129.76	125.04
30	1n	601	CHL	C3D-C4D-ND	3.10	115.25	110.24
29	1C	504	CLA	CMC-C2C-C1C	3.10	129.76	125.04
29	1b	617	CLA	C4C-C3C-C2C	-3.10	102.38	106.90
29	06	602	CLA	CHB-C1B-NB	-3.10	120.98	124.26
29	1C	505	CLA	CHB-C1B-NB	-3.10	120.98	124.26
29	07	312	CLA	C3B-C4B-NB	3.10	113.39	110.52
29	1r	302	CLA	CMA-C3A-C2A	-3.10	108.87	116.10
29	1c	507	CLA	C2A-C1A-CHA	-3.10	118.44	123.86
29	05	309	CLA	C4C-C3C-C2C	-3.10	102.38	106.90
40	1a	412	PL9	C25-C24-C26	3.10	120.48	115.27
46	1G	619	XAT	C35-C15-C14	-3.10	117.13	123.47
30	1s	310	CHL	CHB-C1B-NB	-3.10	120.98	124.26
29	1G	613	CLA	C4C-C3C-C2C	-3.10	102.39	106.90
29	1r	312	CLA	CMB-C2B-C1B	3.10	130.08	125.37
29	1D	401	CLA	CHB-C1B-NB	-3.10	120.98	124.26
29	1s	307	CLA	C4C-C3C-C2C	-3.10	102.39	106.90
29	1r	310	CLA	CHB-C1B-NB	-3.09	120.98	124.26
29	09	312	CLA	C1D-CHD-C4C	-3.09	119.38	126.06
30	07	305	CHL	CHB-C1B-NB	-3.09	120.98	124.26
30	1n	601	CHL	CHB-C4A-NA	3.09	128.79	124.51
29	03	306	CLA	CHC-C1C-C2C	-3.09	118.14	126.73
29	04	310	CLA	CAC-C3C-C4C	3.09	128.82	124.81
29	06	608	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
29	08	307	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
29	1c	508	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
31	09	313	LUT	C20-C13-C14	-3.09	118.59	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1s	304	CHL	C3B-C4B-NB	3.09	113.38	110.52
29	02	609	CLA	C2D-C1D-ND	3.09	112.38	110.10
29	1G	612	CLA	C1D-CHD-C4C	-3.09	119.39	126.06
29	07	307	CLA	CHB-C4A-NA	3.09	128.79	124.51
29	1B	615	CLA	CHB-C4A-NA	3.09	128.79	124.51
30	04	304	CHL	CHB-C1B-NB	-3.09	120.98	124.26
31	09	314	LUT	C20-C13-C14	-3.09	118.59	122.92
29	1R	302	CLA	CHC-C1C-C2C	-3.09	118.15	126.73
29	1c	512	CLA	CMD-C2D-C3D	-3.09	120.51	127.61
30	08	302	CHL	CHB-C1B-NB	-3.09	120.99	124.26
29	1N	315	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
35	04	313	BCR	C37-C22-C23	3.09	122.94	118.08
29	1R	312	CLA	CMB-C2B-C1B	3.09	130.07	125.37
30	1N	307	CHL	CMB-C2B-C1B	3.09	130.07	125.37
29	1B	610	CLA	CMC-C2C-C1C	3.09	129.74	125.04
29	1N	312	CLA	CHB-C4A-NA	3.09	128.78	124.51
35	1B	619	BCR	C1-C6-C5	-3.09	118.27	122.61
29	1B	612	CLA	CHB-C4A-NA	3.09	128.78	124.51
29	1D	405	CLA	CMD-C2D-C3D	-3.09	120.51	127.61
29	1n	612	CLA	C4C-C3C-C2C	-3.09	102.40	106.90
29	04	307	CLA	CHC-C4B-NB	-3.09	120.99	124.26
29	00	309	CLA	C1-C2-C3	-3.09	120.71	126.04
29	09	309	CLA	C4C-C3C-C2C	-3.09	102.40	106.90
29	1B	604	CLA	CAC-C3C-C4C	3.09	128.81	124.81
30	1G	608	CHL	CHB-C1B-NB	-3.09	120.99	124.26
29	1r	308	CLA	C3B-C4B-NB	3.09	113.38	110.52
29	1S	310	CLA	C4C-C3C-C2C	-3.08	102.40	106.90
29	1b	605	CLA	CHB-C4A-NA	3.08	128.78	124.51
29	1g	613	CLA	CHB-C4A-NA	3.08	128.78	124.51
29	1r	312	CLA	CHB-C4A-NA	3.08	128.78	124.51
29	08	311	CLA	C2D-C1D-ND	3.08	112.38	110.10
29	1R	310	CLA	C1D-CHD-C4C	-3.08	119.40	126.06
29	1a	405	CLA	CHC-C1C-C2C	-3.08	118.16	126.73
29	04	312	CLA	C4C-C3C-C2C	-3.08	102.40	106.90
29	07	308	CLA	C1D-CHD-C4C	-3.08	119.41	126.06
29	1c	515	CLA	CAC-C3C-C4C	3.08	128.81	124.81
29	1G	613	CLA	C3B-C4B-NB	3.08	113.38	110.52
29	1d	407	CLA	C4C-C3C-C2C	-3.08	102.41	106.90
29	01	307	CLA	CHC-C1C-C2C	-3.08	118.17	126.73
29	1C	508	CLA	CHB-C1B-NB	-3.08	121.00	124.26
35	1h	101	BCR	C19-C18-C17	3.08	123.67	118.94
29	00	303	CLA	C4C-C3C-C2C	-3.08	102.41	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	510	CLA	C1C-C2C-C3C	-3.08	103.72	106.96
29	09	310	CLA	C1D-CHD-C4C	-3.08	119.41	126.06
29	09	303	CLA	C4C-C3C-C2C	-3.08	102.41	106.90
29	1C	506	CLA	CHB-C1B-NB	-3.08	121.00	124.26
30	1G	605	CHL	CHB-C1B-NB	-3.08	121.00	124.26
29	1S	310	CLA	C1D-CHD-C4C	-3.08	119.42	126.06
35	1Z	101	BCR	C19-C18-C17	3.08	123.67	118.94
29	1C	502	CLA	C1-C2-C3	-3.08	120.72	126.04
30	09	306	CHL	CMB-C2B-C1B	3.08	130.06	125.37
29	03	312	CLA	C3B-C4B-NB	3.08	113.37	110.52
29	08	310	CLA	C3B-C4B-NB	3.08	113.37	110.52
29	1C	509	CLA	CHB-C4A-NA	3.08	128.77	124.51
35	1b	620	BCR	C36-C18-C17	-3.08	118.61	122.92
29	1R	311	CLA	C2D-C1D-ND	3.08	112.37	110.10
35	1I	102	BCR	C37-C22-C23	3.08	122.93	118.08
29	04	306	CLA	CHB-C1B-NB	-3.08	121.00	124.26
29	01	313	CLA	C3B-C4B-NB	3.08	113.37	110.52
30	1s	308	CHL	CHB-C4A-NA	3.08	128.77	124.51
29	1N	305	CLA	C1D-CHD-C4C	-3.08	119.42	126.06
29	01	307	CLA	CMB-C2B-C1B	3.08	130.06	125.37
29	1B	601	CLA	CMD-C2D-C3D	-3.08	120.54	127.61
29	1D	405	CLA	C4C-C3C-C2C	-3.08	102.41	106.90
30	1s	309	CHL	CAA-C2A-C3A	-3.08	108.92	116.10
29	01	313	CLA	C4C-C3C-C2C	-3.08	102.42	106.90
29	1c	509	CLA	CMD-C2D-C3D	-3.08	120.54	127.61
29	1n	614	CLA	C1D-CHD-C4C	-3.08	119.42	126.06
29	00	318	CLA	C1-C2-C3	-3.07	120.72	126.04
29	03	307	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
30	1G	607	CHL	CHB-C1B-NB	-3.07	121.00	124.26
29	1C	504	CLA	CHB-C4A-NA	3.07	128.76	124.51
29	06	609	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
29	1b	602	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
30	03	304	CHL	C1C-C2C-C3C	-3.07	104.67	107.11
29	08	307	CLA	CAC-C3C-C4C	3.07	128.80	124.81
29	1c	504	CLA	CHC-C4B-NB	-3.07	121.00	124.26
31	1s	318	LUT	C20-C13-C14	-3.07	118.62	122.92
29	00	310	CLA	C3B-C4B-NB	3.07	113.36	110.52
31	1N	316	LUT	C15-C35-C34	3.07	129.77	123.47
29	1B	610	CLA	CHC-C4B-NB	-3.07	121.00	124.26
46	1r	316	XAT	C35-C15-C14	3.07	129.76	123.47
29	1R	308	CLA	CHC-C1C-C2C	-3.07	118.20	126.73
30	1N	302	CHL	C3D-C4D-ND	3.07	115.20	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	06	605	CHL	CHB-C1B-NB	-3.07	121.01	124.26
29	1g	610	CLA	CHB-C4A-NA	3.07	128.76	124.51
29	1a	405	CLA	C1C-C2C-C3C	-3.07	103.73	106.96
31	1S	318	LUT	C40-C33-C34	-3.07	118.62	122.92
29	04	307	CLA	CMB-C2B-C1B	3.07	130.04	125.37
29	09	310	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
29	04	309	CLA	CMA-C3A-C4A	-3.07	103.52	111.77
29	03	312	CLA	CHB-C4A-NA	3.07	128.76	124.51
29	08	307	CLA	C1D-CHD-C4C	-3.07	119.44	126.06
30	06	601	CHL	CHB-C1B-NB	-3.07	121.01	124.26
29	05	310	CLA	CAC-C3C-C4C	3.07	128.79	124.81
29	1s	306	CLA	CAC-C3C-C4C	3.07	128.79	124.81
29	1B	606	CLA	CHD-C1D-ND	-3.07	121.63	124.45
29	1g	602	CLA	C2D-C1D-ND	3.07	112.36	110.10
29	1b	611	CLA	CHB-C1B-NB	-3.07	121.01	124.26
29	1a	406	CLA	CHB-C1B-NB	-3.07	121.01	124.26
29	1S	316	CLA	C3B-C4B-NB	3.07	113.36	110.52
31	1r	315	LUT	C20-C13-C14	-3.07	118.63	122.92
30	1n	607	CHL	C3D-C4D-ND	3.07	115.20	110.24
29	07	310	CLA	C3B-C4B-NB	3.07	113.36	110.52
29	1N	313	CLA	C4C-C3C-C2C	-3.07	102.43	106.90
29	1S	314	CLA	CHB-C4A-NA	3.06	128.75	124.51
29	1d	403	CLA	CHB-C4A-NA	3.06	128.75	124.51
29	1N	315	CLA	CMD-C2D-C3D	-3.06	120.57	127.61
29	00	311	CLA	C4C-C3C-C2C	-3.06	102.43	106.90
29	1S	316	CLA	C4C-C3C-C2C	-3.06	102.43	106.90
29	05	301	CLA	CMC-C2C-C1C	3.06	129.70	125.04
29	1R	308	CLA	CMC-C2C-C1C	3.06	129.70	125.04
31	01	314	LUT	C1-C6-C7	3.06	124.44	115.78
29	1g	611	CLA	CAC-C3C-C4C	3.06	128.78	124.81
29	01	301	CLA	CMB-C2B-C1B	3.06	130.03	125.37
29	08	307	CLA	CMB-C2B-C1B	3.06	130.03	125.37
35	1i	101	BCR	C37-C22-C23	3.06	122.90	118.08
29	1G	602	CLA	CHC-C1C-C2C	-3.06	118.23	126.73
29	1B	613	CLA	C3B-C4B-NB	3.06	113.36	110.52
29	1r	309	CLA	O2A-CGA-CBA	3.06	121.51	111.91
29	1R	302	CLA	CMD-C2D-C3D	-3.06	120.57	127.61
29	1G	603	CLA	C1D-CHD-C4C	-3.06	119.46	126.06
31	1G	615	LUT	C32-C33-C34	3.06	123.64	118.94
29	1b	616	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
29	06	608	CLA	C3B-C4B-NB	3.06	113.35	110.52
29	09	309	CLA	C1D-CHD-C4C	-3.06	119.46	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	03	307	CLA	CMD-C2D-C3D	-3.06	120.58	127.61
29	01	309	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
29	03	308	CLA	CMB-C2B-C1B	3.06	130.03	125.37
29	1b	606	CLA	CHC-C4B-NB	-3.06	121.02	124.26
30	1r	306	CHL	CHB-C1B-NB	-3.06	121.02	124.26
29	02	602	CLA	CAC-C3C-C4C	3.06	128.78	124.81
38	1A	406	PHO	C2B-C1B-NB	-3.06	107.42	109.53
29	1b	603	CLA	CHB-C4A-NA	3.06	128.74	124.51
29	09	302	CLA	C4A-NA-C1A	3.06	108.08	106.71
29	02	611	CLA	CHB-C4A-NA	3.06	128.74	124.51
29	1s	311	CLA	C1D-CHD-C4C	-3.06	119.47	126.06
30	1r	305	CHL	C1C-C2C-C3C	-3.06	104.69	107.11
29	07	310	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
29	06	608	CLA	CHB-C4A-NA	3.06	128.74	124.51
29	1N	305	CLA	CMD-C2D-C3D	-3.06	120.59	127.61
29	05	308	CLA	CAC-C3C-C4C	3.05	128.77	124.81
29	06	602	CLA	C4-C3-C5	3.05	120.41	115.27
29	1B	610	CLA	C4-C3-C5	3.05	120.41	115.27
29	00	303	CLA	C1D-CHD-C4C	-3.05	119.47	126.06
30	02	604	CHL	CHB-C1B-NB	-3.05	121.03	124.26
29	1r	314	CLA	C2D-C1D-ND	3.05	112.35	110.10
29	1b	602	CLA	CHB-C4A-NA	3.05	128.73	124.51
29	00	318	CLA	CHC-C4B-NB	-3.05	121.03	124.26
35	1B	617	BCR	C1-C6-C7	3.05	124.41	115.78
29	06	610	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
29	1a	408	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
31	1G	615	LUT	C20-C13-C14	-3.05	118.65	122.92
29	05	301	CLA	CHC-C1C-C2C	-3.05	118.26	126.73
29	02	614	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
30	1g	609	CHL	C1C-C2C-C3C	-3.05	104.69	107.11
29	1G	603	CLA	C2D-C1D-ND	3.05	112.35	110.10
29	1G	613	CLA	CMD-C2D-C3D	-3.05	120.60	127.61
30	04	302	CHL	CHB-C4A-NA	3.05	128.73	124.51
46	1R	316	XAT	C8-C9-C10	3.05	123.62	118.94
29	1s	305	CLA	CHB-C1B-NB	-3.05	121.03	124.26
30	09	307	CHL	CHB-C1B-NB	-3.05	121.03	124.26
29	06	611	CLA	CAC-C3C-C4C	3.05	128.76	124.81
29	1b	611	CLA	CMD-C2D-C3D	-3.05	120.60	127.61
29	06	609	CLA	CHB-C4A-NA	3.05	128.73	124.51
30	1n	606	CHL	C1D-ND-C4D	-3.05	104.17	106.33
30	1S	307	CHL	CHB-C4A-NA	3.05	128.73	124.51
30	1r	306	CHL	CED-O2D-CGD	3.05	122.83	115.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	308	CLA	CHC-C4B-NB	-3.05	121.03	124.26
29	03	309	CLA	C3B-C4B-NB	3.05	113.34	110.52
29	1r	310	CLA	C3B-C4B-NB	3.05	113.34	110.52
29	03	308	CLA	C4C-C3C-C2C	-3.05	102.46	106.90
29	1R	302	CLA	C4C-C3C-C2C	-3.05	102.46	106.90
29	05	308	CLA	CHC-C1C-C2C	-3.05	118.27	126.73
30	04	304	CHL	O2D-CGD-O1D	-3.05	117.88	123.84
30	1S	308	CHL	CMB-C2B-C1B	3.05	130.01	125.37
29	08	312	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
35	1D	406	BCR	C36-C18-C17	-3.04	118.66	122.92
29	1R	309	CLA	CMD-C2D-C3D	-3.04	120.61	127.61
29	1c	515	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
29	05	311	CLA	C2A-C1A-CHA	-3.04	118.54	123.85
29	1r	302	CLA	CHC-C4B-NB	-3.04	121.03	124.26
29	07	312	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
29	1G	610	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
29	03	301	CLA	CAC-C3C-C4C	3.04	128.76	124.81
30	00	308	CHL	CHB-C1B-NB	-3.04	121.03	124.26
30	1g	607	CHL	CHB-C1B-NB	-3.04	121.03	124.26
29	03	309	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
29	1G	604	CLA	C1D-CHD-C4C	-3.04	119.49	126.06
29	07	308	CLA	CHC-C4B-NB	-3.04	121.04	124.26
29	1g	613	CLA	CHD-C1D-ND	-3.04	121.66	124.45
29	1B	604	CLA	CMD-C2D-C3D	-3.04	120.61	127.61
29	04	310	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
30	1r	305	CHL	CHB-C4A-NA	3.04	128.72	124.51
29	04	307	CLA	C2D-C1D-ND	3.04	112.35	110.10
30	08	303	CHL	CHB-C1B-NB	-3.04	121.04	124.26
29	1B	604	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
29	06	608	CLA	C2D-C1D-ND	3.04	112.34	110.10
29	1N	315	CLA	CHB-C4A-NA	3.04	128.72	124.51
29	02	602	CLA	C3B-C4B-NB	3.04	113.34	110.52
29	1n	603	CLA	C1D-CHD-C4C	-3.04	119.50	126.06
29	1n	602	CLA	O2A-CGA-CBA	3.04	121.45	111.91
29	07	307	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
35	1h	101	BCR	C1-C6-C5	-3.04	118.33	122.61
40	1E	102	PL9	C42-C43-C44	-3.04	120.34	127.66
30	00	307	CHL	CMD-C2D-C3D	-3.04	120.62	127.61
30	02	605	CHL	C1C-C2C-C3C	-3.04	104.70	107.11
29	00	309	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
29	1N	305	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
29	1c	510	CLA	C4A-NA-C1A	3.04	108.07	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1D	405	CLA	C2D-C1D-ND	3.04	112.34	110.10
29	1c	512	CLA	C2D-C1D-ND	3.04	112.34	110.10
29	00	302	CLA	CAC-C3C-C4C	3.04	128.75	124.81
29	01	308	CLA	C3B-C4B-NB	3.04	113.33	110.52
29	1C	505	CLA	C1D-CHD-C4C	-3.04	119.50	126.06
29	1S	305	CLA	CHB-C4A-NA	3.04	128.71	124.51
29	1g	610	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
29	03	306	CLA	CMB-C2B-C1B	3.04	129.99	125.37
29	1s	315	CLA	CHB-C4A-NA	3.04	128.71	124.51
29	1r	303	CLA	C2D-C1D-ND	3.04	112.34	110.10
30	01	304	CHL	CHB-C1B-NB	-3.03	121.04	124.26
29	1r	303	CLA	C4C-C3C-C2C	-3.03	102.47	106.90
29	00	309	CLA	CHB-C4A-NA	3.03	128.71	124.51
29	1G	611	CLA	CAC-C3C-C4C	3.03	128.75	124.81
29	1D	404	CLA	C4-C3-C5	3.03	120.38	115.27
29	1c	508	CLA	CHC-C4B-NB	-3.03	121.05	124.26
30	06	604	CHL	CHB-C4A-NA	3.03	128.71	124.51
29	1C	513	CLA	CHC-C1C-C2C	-3.03	118.31	126.73
30	09	304	CHL	C1C-C2C-C3C	-3.03	104.71	107.11
29	04	310	CLA	CHB-C4A-NA	3.03	128.71	124.51
30	05	306	CHL	CMD-C2D-C3D	-3.03	120.64	127.61
29	07	310	CLA	C1D-CHD-C4C	-3.03	119.52	126.06
29	1b	602	CLA	C1D-CHD-C4C	-3.03	119.52	126.06
30	1N	302	CHL	CMD-C2D-C3D	-3.03	120.64	127.61
29	03	301	CLA	CHB-C4A-NA	3.03	128.70	124.51
29	1n	614	CLA	CHB-C4A-NA	3.03	128.70	124.51
29	1c	503	CLA	CAC-C3C-C4C	3.03	128.74	124.81
29	00	312	CLA	CAC-C3C-C4C	3.03	128.74	124.81
29	08	312	CLA	CMD-C2D-C3D	-3.03	120.64	127.61
29	1C	502	CLA	CHC-C4B-NB	-3.03	121.05	124.26
29	01	311	CLA	C3B-C4B-NB	3.03	113.33	110.52
35	1B	630	BCR	C38-C26-C25	3.03	127.93	124.53
29	00	318	CLA	CHB-C4A-NA	3.03	128.70	124.51
30	1R	305	CHL	CHB-C4A-NA	3.03	128.70	124.51
29	06	611	CLA	C3B-C4B-NB	3.03	113.32	110.52
29	1s	311	CLA	CHB-C4A-NA	3.03	128.70	124.51
30	06	606	CHL	CHB-C1B-NB	-3.03	121.05	124.26
35	1k	102	BCR	C36-C18-C17	-3.03	118.68	122.92
29	1S	313	CLA	CAC-C3C-C4C	3.03	128.74	124.81
31	1s	318	LUT	C19-C9-C10	-3.03	118.68	122.92
29	1C	510	CLA	C4C-C3C-C2C	-3.03	102.49	106.90
29	09	311	CLA	CAC-C3C-C4C	3.03	128.74	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	512	CLA	CHB-C1B-NB	-3.03	121.05	124.26
29	03	310	CLA	C4C-C3C-C2C	-3.03	102.49	106.90
30	1S	309	CHL	CHB-C1B-NB	-3.02	121.06	124.26
29	1B	613	CLA	C4C-C3C-C2C	-3.02	102.49	106.90
29	1d	406	CLA	C4C-C3C-C2C	-3.02	102.49	106.90
29	01	312	CLA	CMD-C2D-C3D	-3.02	120.66	127.61
29	00	309	CLA	CHC-C1C-C2C	-3.02	118.33	126.73
29	1B	610	CLA	CAC-C3C-C4C	3.02	128.73	124.81
29	1R	306	CLA	CMC-C2C-C1C	3.02	129.64	125.04
29	02	612	CLA	CHB-C4A-NA	3.02	128.69	124.51
29	1a	408	CLA	CHB-C4A-NA	3.02	128.69	124.51
29	04	306	CLA	CHC-C4B-NB	-3.02	121.06	124.26
29	1A	407	CLA	CHB-C1B-NB	-3.02	121.06	124.26
29	04	306	CLA	CHB-C4A-NA	3.02	128.69	124.51
29	1B	603	CLA	CAC-C3C-C4C	3.02	128.73	124.81
29	04	308	CLA	C4C-C3C-C2C	-3.02	102.49	106.90
29	1B	615	CLA	C4C-C3C-C2C	-3.02	102.49	106.90
29	1A	407	CLA	CHC-C1C-C2C	-3.02	118.34	126.73
30	1S	304	CHL	CHB-C4A-NA	3.02	128.69	124.51
29	1b	603	CLA	C4A-NA-C1A	3.02	108.06	106.71
29	1s	314	CLA	C3B-C4B-NB	3.02	113.32	110.52
29	08	310	CLA	CMD-C2D-C3D	-3.02	120.67	127.61
29	08	310	CLA	CHB-C4A-NA	3.02	128.69	124.51
29	08	307	CLA	CHB-C1B-NB	-3.02	121.06	124.26
31	1s	317	LUT	C1-C6-C7	3.02	124.32	115.78
30	03	303	CHL	CHB-C4A-NA	3.02	128.69	124.51
29	02	610	CLA	C4C-C3C-C2C	-3.02	102.50	106.90
29	04	314	CLA	CHB-C1B-NB	-3.02	121.06	124.26
29	03	308	CLA	CMD-C2D-C3D	-3.02	120.67	127.61
29	09	311	CLA	CHB-C4A-NA	3.02	128.69	124.51
29	06	610	CLA	CHB-C4A-NA	3.02	128.69	124.51
30	1G	601	CHL	CMB-C2B-C1B	3.02	129.97	125.37
29	08	308	CLA	CHB-C1B-NB	-3.02	121.06	124.26
29	01	310	CLA	C3B-C4B-NB	3.02	113.31	110.52
29	1c	507	CLA	CAC-C3C-C4C	3.02	128.72	124.81
29	07	308	CLA	CAA-C2A-C3A	-3.02	109.06	116.10
29	08	306	CLA	C4C-C3C-C2C	-3.02	102.50	106.90
29	1S	314	CLA	C4C-C3C-C2C	-3.02	102.50	106.90
35	1B	619	BCR	C36-C18-C17	-3.02	118.70	122.92
29	09	312	CLA	C4C-C3C-C2C	-3.01	102.50	106.90
29	1c	510	CLA	O2D-CGD-O1D	-3.01	117.94	123.84
30	06	603	CHL	CHB-C1B-NB	-3.01	121.07	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	507	CLA	O2D-CGD-O1D	-3.01	117.94	123.84
29	06	611	CLA	CHB-C4A-NA	3.01	128.68	124.51
46	1G	619	XAT	C27-C28-C29	-3.01	120.86	125.53
29	1G	612	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
29	1C	510	CLA	CAC-C3C-C4C	3.01	128.72	124.81
29	02	610	CLA	CHB-C4A-NA	3.01	128.68	124.51
29	1n	612	CLA	C4A-NA-C1A	3.01	108.06	106.71
35	1J	101	BCR	C30-C25-C24	3.01	124.30	115.78
29	07	312	CLA	CHB-C4A-NA	3.01	128.68	124.51
29	1c	513	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
29	1n	614	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
29	07	307	CLA	CMB-C2B-C1B	3.01	129.95	125.37
30	1g	609	CHL	CMB-C2B-C1B	3.01	129.95	125.37
31	1n	615	LUT	C40-C33-C34	-3.01	118.71	122.92
29	1R	312	CLA	CHC-C4B-NB	-3.01	121.07	124.26
29	1b	607	CLA	C1D-CHD-C4C	-3.01	119.57	126.06
30	05	306	CHL	CHB-C1B-NB	-3.01	121.07	124.26
29	1s	307	CLA	CHB-C4A-NA	3.01	128.67	124.51
29	00	312	CLA	CMD-C2D-C3D	-3.01	120.69	127.61
30	1R	303	CHL	C1C-C2C-C3C	-3.01	104.73	107.11
29	1b	608	CLA	CHC-C4B-NB	-3.01	121.07	124.26
29	1b	613	CLA	CHC-C4B-NB	-3.01	121.07	124.26
29	07	310	CLA	O2D-CGD-O1D	-3.01	117.26	124.09
29	1D	404	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
29	1g	603	CLA	C3B-C4B-NB	3.01	113.31	110.52
29	00	301	CLA	C4-C3-C5	3.01	120.33	115.27
29	08	311	CLA	C2A-C1A-CHA	-3.01	118.60	123.85
29	1c	515	CLA	CHB-C1B-NB	-3.01	121.07	124.26
29	1g	610	CLA	CHC-C4B-NB	-3.01	121.07	124.26
29	1r	304	CLA	CHC-C4B-NB	-3.01	121.07	124.26
30	06	604	CHL	CHB-C1B-NB	-3.01	121.07	124.26
30	00	305	CHL	C1C-C2C-C3C	-3.01	104.73	107.11
31	1G	616	LUT	C32-C33-C34	3.01	123.55	118.94
35	1B	630	BCR	C12-C13-C14	3.01	123.55	118.94
29	1B	609	CLA	O2A-CGA-CBA	3.01	121.34	111.91
29	08	307	CLA	C2D-C1D-ND	3.01	112.32	110.10
29	1r	311	CLA	C2D-C1D-ND	3.01	112.32	110.10
31	07	313	LUT	C32-C33-C34	3.01	123.55	118.94
29	06	602	CLA	CMD-C2D-C3D	-3.01	120.70	127.61
30	05	304	CHL	CHD-C4C-C3C	-3.00	120.42	124.84
30	05	307	CHL	CHB-C4A-NA	3.00	128.67	124.51
30	1R	303	CHL	C1D-ND-C4D	-3.00	104.20	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	02	611	CLA	CAC-C3C-C4C	3.00	128.71	124.81
29	1C	508	CLA	C3B-C4B-NB	3.00	113.30	110.52
29	01	309	CLA	CMD-C2D-C3D	-3.00	120.71	127.61
29	1N	315	CLA	C1D-CHD-C4C	-3.00	119.58	126.06
29	1N	303	CLA	CHC-C1C-C2C	-3.00	118.39	126.73
29	1b	617	CLA	CHB-C4A-NA	3.00	128.66	124.51
29	02	609	CLA	CMD-C2D-C3D	-3.00	120.71	127.61
35	1B	617	BCR	C1-C6-C5	-3.00	118.39	122.61
29	1c	507	CLA	C4C-C3C-C2C	-3.00	102.52	106.90
30	1S	307	CHL	CAC-C3C-C4C	3.00	128.70	124.81
29	1B	613	CLA	C1-C2-C3	-3.00	120.85	126.04
29	09	302	CLA	CMC-C2C-C1C	3.00	129.61	125.04
31	1s	317	LUT	C40-C33-C34	-3.00	118.72	122.92
30	1n	605	CHL	CMB-C2B-C1B	3.00	129.94	125.37
29	1B	612	CLA	C1D-CHD-C4C	-3.00	119.59	126.06
29	1r	304	CLA	CHB-C4A-NA	3.00	128.66	124.51
29	1r	310	CLA	C2D-C1D-ND	3.00	112.31	110.10
29	1C	507	CLA	CMB-C2B-C3B	3.00	133.85	126.59
35	1J	101	BCR	C36-C18-C17	-3.00	118.72	122.92
29	02	602	CLA	CHB-C4A-NA	3.00	128.66	124.51
29	1n	612	CLA	CHC-C4B-NB	-3.00	121.08	124.26
30	1S	307	CHL	CMB-C2B-C1B	3.00	129.94	125.37
29	00	301	CLA	C1-C2-C3	-3.00	120.86	126.04
30	1g	606	CHL	CMB-C2B-C1B	3.00	129.93	125.37
29	05	302	CLA	CAC-C3C-C4C	3.00	128.70	124.81
31	1G	616	LUT	C40-C33-C34	-3.00	118.72	122.92
29	1N	315	CLA	CMB-C2B-C1B	3.00	129.93	125.37
35	1Z	102	BCR	C24-C23-C22	-3.00	121.71	126.23
29	1b	603	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
29	1n	603	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
35	1b	619	BCR	C36-C18-C17	-3.00	118.73	122.92
29	1b	609	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
29	1n	604	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
29	1R	307	CLA	C1C-C2C-C3C	-2.99	103.81	106.96
29	1R	312	CLA	CHB-C4A-NA	2.99	128.65	124.51
29	03	308	CLA	CHC-C4B-NB	-2.99	121.09	124.26
29	1c	515	CLA	C3B-C4B-NB	2.99	113.29	110.52
29	1R	302	CLA	CHB-C4A-NA	2.99	128.65	124.51
29	1B	606	CLA	C4C-C3C-C2C	-2.99	102.53	106.90
29	1R	302	CLA	O2A-CGA-CBA	2.99	121.30	111.91
30	1g	601	CHL	C1C-C2C-C3C	-2.99	104.74	107.11
30	1G	609	CHL	CHB-C1B-NB	-2.99	121.09	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	311	CLA	C3B-C4B-NB	2.99	113.29	110.52
29	1B	606	CLA	C3B-C4B-NB	2.99	113.29	110.52
30	08	301	CHL	CAC-C3C-C4C	2.99	128.69	124.81
29	1C	505	CLA	C3D-C2D-C1D	-2.99	101.75	105.83
29	1a	405	CLA	C4D-CHA-C1A	-2.99	117.61	121.25
29	1D	402	CLA	CMB-C2B-C1B	2.99	129.93	125.37
29	06	611	CLA	C1D-CHD-C4C	-2.99	119.61	126.06
29	1c	510	CLA	CHB-C4A-NA	2.99	128.65	124.51
30	05	305	CHL	CHB-C1B-NB	-2.99	121.09	124.26
34	1C	517	DGD	C3G-O3G-C1D	-2.99	107.90	113.74
29	05	308	CLA	C1D-CHD-C4C	-2.99	119.61	126.06
29	1B	603	CLA	C4-C3-C5	2.99	120.30	115.27
29	1d	407	CLA	CMD-C2D-C3D	-2.99	120.74	127.61
29	1g	613	CLA	C3B-C4B-NB	2.99	113.29	110.52
29	01	312	CLA	C1D-CHD-C4C	-2.99	119.61	126.06
29	1B	611	CLA	C4D-CHA-C1A	-2.99	117.61	121.25
29	1N	304	CLA	CMB-C2B-C1B	2.99	129.92	125.37
29	1R	310	CLA	C2D-C1D-ND	2.99	112.31	110.10
29	1g	613	CLA	CHC-C4B-NB	-2.99	121.09	124.26
30	05	315	CHL	CHB-C1B-NB	-2.99	121.09	124.26
29	1s	312	CLA	C4C-C3C-C2C	-2.99	102.54	106.90
30	04	304	CHL	C1C-C2C-C3C	-2.99	104.74	107.11
29	1a	406	CLA	CHB-C4A-NA	2.99	128.64	124.51
35	1a	409	BCR	C36-C18-C17	-2.99	118.74	122.92
29	1g	602	CLA	C4C-C3C-C2C	-2.99	102.54	106.90
29	1c	513	CLA	C2D-C1D-ND	2.99	112.31	110.10
30	09	305	CHL	CHB-C4A-NA	2.99	128.64	124.51
29	1N	313	CLA	CMD-C2D-C3D	-2.99	120.74	127.61
29	1r	302	CLA	CMD-C2D-C3D	-2.99	120.74	127.61
30	03	304	CHL	CMB-C2B-C1B	2.99	129.92	125.37
29	05	303	CLA	CMD-C2D-C3D	-2.99	120.75	127.61
29	1c	513	CLA	C4A-NA-C1A	2.99	108.05	106.71
35	1h	101	BCR	C30-C25-C26	-2.99	118.41	122.61
30	1n	601	CHL	C1C-C2C-C3C	-2.98	104.75	107.11
29	1g	614	CLA	CMB-C2B-C1B	2.98	129.91	125.37
29	04	306	CLA	C4C-C3C-C2C	-2.98	102.55	106.90
29	1b	616	CLA	C3B-C4B-NB	2.98	113.28	110.52
30	00	304	CHL	CMB-C2B-C1B	2.98	129.91	125.37
29	1C	503	CLA	C2D-C1D-ND	2.98	112.30	110.10
29	00	311	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
29	1B	601	CLA	CHC-C1C-C2C	-2.98	118.44	126.73
29	1g	602	CLA	C1-C2-C3	-2.98	120.88	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	00	306	CHL	C3D-C4D-ND	2.98	115.06	110.24
31	1G	615	LUT	C40-C33-C34	-2.98	118.75	122.92
30	00	307	CHL	C3D-C4D-ND	2.98	115.06	110.24
29	02	608	CLA	CHB-C1B-NB	-2.98	121.10	124.26
31	1r	315	LUT	C40-C33-C34	-2.98	118.75	122.92
29	1c	505	CLA	CMD-C2D-C3D	-2.98	120.75	127.61
29	02	613	CLA	CMB-C2B-C1B	2.98	129.91	125.37
29	08	308	CLA	CHC-C1C-C2C	-2.98	118.45	126.73
29	1c	504	CLA	CMD-C2D-C3D	-2.98	120.76	127.61
29	1G	603	CLA	CHC-C4B-NB	-2.98	121.10	124.26
29	1n	603	CLA	CHB-C4A-NA	2.98	128.63	124.51
29	1s	312	CLA	C3B-C4B-NB	2.98	113.28	110.52
29	04	311	CLA	CMD-C2D-C3D	-2.98	120.76	127.61
29	1G	604	CLA	CHB-C1B-NB	-2.98	121.10	124.26
29	04	307	CLA	CAC-C3C-C4C	2.98	128.68	124.81
29	1B	604	CLA	C1D-CHD-C4C	-2.98	119.63	126.06
29	06	607	CLA	C3B-C4B-NB	2.98	113.28	110.52
31	1S	317	LUT	C20-C13-C14	-2.98	118.75	122.92
35	1Z	102	BCR	C23-C22-C21	2.98	123.51	118.94
29	01	313	CLA	CMD-C2D-C3D	-2.98	120.76	127.61
30	1s	309	CHL	CHB-C1B-NB	-2.98	121.11	124.26
29	1N	314	CLA	CMB-C2B-C1B	2.98	129.90	125.37
29	1n	613	CLA	CHB-C1B-NB	-2.98	121.11	124.26
35	1A	409	BCR	C15-C16-C17	2.98	129.57	123.47
29	1d	407	CLA	O2A-CGA-CBA	2.98	121.25	111.91
29	00	312	CLA	C2D-C1D-ND	2.98	112.30	110.10
29	1S	313	CLA	C2D-C1D-ND	2.98	112.30	110.10
31	09	314	LUT	C1-C6-C5	-2.98	118.42	122.61
29	1B	615	CLA	CMB-C2B-C1B	2.98	129.90	125.37
29	1b	614	CLA	CMB-C2B-C1B	2.98	129.90	125.37
30	01	302	CHL	C1C-C2C-C3C	-2.97	104.75	107.11
29	04	311	CLA	CAC-C3C-C4C	2.97	128.67	124.81
29	1s	312	CLA	CMD-C2D-C3D	-2.97	120.77	127.61
29	1S	314	CLA	CHB-C1B-NB	-2.97	121.11	124.26
29	07	309	CLA	C1D-CHD-C4C	-2.97	119.64	126.06
46	1R	316	XAT	C20-C13-C14	-2.97	118.76	122.92
29	09	312	CLA	CMB-C2B-C1B	2.97	129.90	125.37
29	1C	512	CLA	C4-C3-C5	2.97	120.27	115.27
31	07	313	LUT	C1-C6-C5	-2.97	118.43	122.61
30	06	603	CHL	CHB-C4A-NA	2.97	128.62	124.51
33	1n	617	LHG	O7-C7-O9	-2.97	116.52	123.70
29	1S	306	CLA	C4C-C3C-C2C	-2.97	102.57	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	1g	616	LUT	C39-C29-C28	2.97	122.76	118.08
29	1g	604	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
30	03	311	CHL	CHB-C1B-NB	-2.97	121.11	124.26
29	1r	314	CLA	CMD-C2D-C3D	-2.97	120.78	127.61
29	1n	602	CLA	CHB-C4A-NA	2.97	128.62	124.51
45	1E	103	HEM	C4C-NC-C1C	2.97	108.26	105.35
29	02	613	CLA	CMD-C2D-C3D	-2.97	120.78	127.61
29	1g	604	CLA	CHB-C4A-NA	2.97	128.62	124.51
29	07	308	CLA	CMD-C2D-C3D	-2.97	120.78	127.61
30	1r	306	CHL	C3D-C4D-ND	2.97	115.04	110.24
33	1n	617	LHG	C5-O7-C7	2.97	125.10	117.79
29	02	608	CLA	CMA-C3A-C2A	-2.97	109.17	116.10
40	1a	412	PL9	C17-C18-C19	-2.97	120.51	127.66
29	00	302	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
29	05	302	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
29	1c	511	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
29	1S	316	CLA	CHB-C4A-NA	2.97	128.62	124.51
29	09	311	CLA	CMD-C2D-C3D	-2.97	120.79	127.61
29	00	310	CLA	C2D-C1D-ND	2.97	112.29	110.10
29	1R	310	CLA	CMB-C2B-C1B	2.97	129.89	125.37
29	1c	505	CLA	CHB-C1B-NB	-2.97	121.12	124.26
29	1b	608	CLA	CHB-C4A-NA	2.97	128.61	124.51
31	03	313	LUT	C1-C6-C5	-2.97	118.44	122.61
41	1d	405	SQD	O47-C45-C46	-2.97	97.66	108.40
31	1s	317	LUT	C32-C33-C34	2.97	123.49	118.94
29	1R	307	CLA	CHB-C1B-NB	-2.97	121.12	124.26
29	1S	310	CLA	CHC-C1C-C2C	-2.97	118.49	126.73
29	07	308	CLA	CHB-C4A-NA	2.96	128.61	124.51
29	04	306	CLA	C3B-C4B-NB	2.96	113.27	110.52
29	1B	615	CLA	C3B-C4B-NB	2.96	113.27	110.52
29	1R	310	CLA	CHB-C4A-NA	2.96	128.61	124.51
29	1s	313	CLA	C4C-C3C-C2C	-2.96	102.58	106.90
46	1r	316	XAT	C20-C13-C14	-2.96	118.77	122.92
29	1c	509	CLA	C2D-C1D-ND	2.96	112.29	110.10
29	01	301	CLA	C1D-CHD-C4C	-2.96	119.67	126.06
30	1R	305	CHL	CMD-C2D-C3D	-2.96	120.80	127.61
29	1b	613	CLA	O2A-CGA-CBA	2.96	121.20	111.91
29	1g	604	CLA	C1D-CHD-C4C	-2.96	119.67	126.06
30	1r	305	CHL	CHB-C1B-NB	-2.96	121.12	124.26
31	1s	317	LUT	C19-C9-C8	2.96	122.74	118.08
29	1s	315	CLA	C4C-C3C-C2C	-2.96	102.59	106.90
29	1R	306	CLA	C1D-CHD-C4C	-2.96	119.68	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	601	CHL	CMD-C2D-C3D	-2.96	120.81	127.61
29	1c	515	CLA	C1D-CHD-C4C	-2.96	119.68	126.06
29	08	307	CLA	CHB-C4A-NA	2.96	128.60	124.51
29	1b	611	CLA	C2D-C1D-ND	2.96	112.28	110.10
29	06	608	CLA	CMD-C2D-C3D	-2.96	120.82	127.61
29	1b	604	CLA	CMD-C2D-C3D	-2.96	120.82	127.61
29	07	309	CLA	C4C-C3C-C2C	-2.95	102.59	106.90
29	05	302	CLA	CMD-C2D-C3D	-2.95	120.82	127.61
29	1D	402	CLA	CHB-C4A-NA	2.95	128.60	124.51
35	1c	516	BCR	C36-C18-C17	-2.95	118.78	122.92
29	1C	504	CLA	C4C-C3C-C2C	-2.95	102.59	106.90
30	1r	305	CHL	CMD-C2D-C3D	-2.95	120.82	127.61
29	04	312	CLA	CAC-C3C-C4C	2.95	128.64	124.81
29	06	610	CLA	CAC-C3C-C4C	2.95	128.64	124.81
31	05	314	LUT	C39-C29-C28	2.95	122.73	118.08
30	01	303	CHL	CHB-C1B-NB	-2.95	121.13	124.26
29	1C	501	CLA	O2A-CGA-CBA	2.95	121.17	111.91
29	09	317	CLA	CHB-C4A-NA	2.95	128.59	124.51
29	1b	608	CLA	C4C-C3C-C2C	-2.95	102.59	106.90
29	1b	616	CLA	CMD-C2D-C3D	-2.95	120.82	127.61
30	02	603	CHL	CMB-C2B-C1B	2.95	129.86	125.37
29	06	609	CLA	CMD-C2D-C3D	-2.95	120.83	127.61
29	08	310	CLA	CHB-C1B-NB	-2.95	121.13	124.26
29	08	312	CLA	CHB-C1B-NB	-2.95	121.13	124.26
29	1R	310	CLA	CMD-C2D-C3D	-2.95	120.83	127.61
29	1b	614	CLA	CMD-C2D-C3D	-2.95	120.83	127.61
29	1d	407	CLA	CHB-C1B-NB	-2.95	121.14	124.26
30	02	607	CHL	CHB-C1B-NB	-2.95	121.14	124.26
29	1B	601	CLA	CMC-C2C-C1C	2.95	129.53	125.04
30	05	304	CHL	C3B-C2B-C1B	-2.95	103.60	107.16
30	08	304	CHL	CMA-C3A-C2A	-2.95	109.22	116.10
30	1g	606	CHL	CHB-C4A-NA	2.95	128.59	124.51
29	1b	612	CLA	C1-C2-C3	-2.95	120.94	126.04
35	1d	409	BCR	C12-C13-C14	2.95	123.47	118.94
29	1d	403	CLA	CMB-C2B-C1B	2.95	129.86	125.37
29	1b	613	CLA	CHC-C1C-C2C	-2.95	118.54	126.73
29	06	610	CLA	CMD-C2D-C3D	-2.95	120.83	127.61
29	1g	603	CLA	C4C-C3C-C2C	-2.95	102.60	106.90
29	1c	503	CLA	C4C-C3C-C2C	-2.95	102.60	106.90
40	1a	412	PL9	C10-C9-C11	2.95	120.23	115.27
29	09	309	CLA	C3B-C4B-NB	2.95	113.25	110.52
30	00	308	CHL	CMB-C2B-C1B	2.94	129.85	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	608	CLA	CMD-C2D-C3D	-2.94	120.84	127.61
29	09	302	CLA	CAC-C3C-C4C	2.94	128.63	124.81
29	1D	402	CLA	CMD-C2D-C3D	-2.94	120.84	127.61
29	1c	509	CLA	C4C-C3C-C2C	-2.94	102.61	106.90
29	1n	602	CLA	C3B-C4B-NB	2.94	113.25	110.52
29	04	307	CLA	CMD-C2D-C3D	-2.94	120.84	127.61
29	1s	305	CLA	CHC-C1C-C2C	-2.94	118.56	126.73
29	1b	610	CLA	O2A-CGA-CBA	2.94	121.14	111.91
31	01	314	LUT	C39-C29-C28	2.94	122.71	118.08
29	00	309	CLA	C1D-CHD-C4C	-2.94	119.72	126.06
29	1C	511	CLA	CHB-C4A-NA	2.94	128.58	124.51
29	00	311	CLA	CMB-C2B-C1B	2.94	129.85	125.37
35	1d	409	BCR	C30-C25-C26	-2.94	118.47	122.61
29	1c	511	CLA	CHB-C1B-NB	-2.94	121.15	124.26
29	05	312	CLA	C3B-C4B-NB	2.94	113.24	110.52
30	01	303	CHL	CMB-C2B-C1B	2.94	129.84	125.37
29	06	611	CLA	CMD-C2D-C3D	-2.94	120.86	127.61
29	1C	507	CLA	CHB-C4A-NA	2.94	128.57	124.51
29	09	303	CLA	CMD-C2D-C3D	-2.94	120.86	127.61
29	1c	513	CLA	CAC-C3C-C4C	2.94	128.62	124.81
30	1s	309	CHL	C1C-C2C-C3C	-2.94	104.78	107.11
29	1d	406	CLA	CHB-C4A-NA	2.94	128.57	124.51
29	01	307	CLA	C1D-CHD-C4C	-2.94	119.72	126.06
30	1G	607	CHL	CAC-C3C-C4C	2.94	128.62	124.81
30	1S	309	CHL	CMD-C2D-C3D	-2.94	120.86	127.61
30	1R	304	CHL	CMB-C2B-C1B	2.94	129.84	125.37
29	1b	615	CLA	C4C-C3C-C2C	-2.94	102.62	106.90
29	07	310	CLA	CHC-C4B-NB	-2.94	121.15	124.26
29	1B	609	CLA	CHC-C4B-NB	-2.94	121.15	124.26
29	1S	314	CLA	C1D-CHD-C4C	-2.94	119.73	126.06
30	02	605	CHL	CHB-C1B-NB	-2.93	121.15	124.26
29	1S	312	CLA	CMD-C2D-C3D	-2.93	120.86	127.61
29	1n	604	CLA	CMD-C2D-C3D	-2.93	120.86	127.61
30	02	601	CHL	C1C-C2C-C3C	-2.93	104.78	107.11
29	1D	402	CLA	O2A-CGA-CBA	2.93	121.12	111.91
30	1r	305	CHL	CMB-C2B-C1B	2.93	129.84	125.37
29	1D	405	CLA	CHB-C1B-NB	-2.93	121.15	124.26
29	1g	613	CLA	C4A-NA-C1A	2.93	108.03	106.71
29	1R	306	CLA	CMD-C2D-C3D	-2.93	120.86	127.61
29	1N	304	CLA	C2D-C1D-ND	2.93	112.27	110.10
30	00	307	CHL	C1C-C2C-C3C	-2.93	104.79	107.11
29	1C	507	CLA	C1-C2-C3	-2.93	120.97	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	603	CLA	CHB-C1B-NB	-2.93	121.15	124.26
29	03	312	CLA	CMD-C2D-C3D	-2.93	120.87	127.61
29	1S	306	CLA	CMD-C2D-C3D	-2.93	120.87	127.61
35	1Z	102	BCR	C12-C13-C14	2.93	123.44	118.94
35	1J	101	BCR	C30-C25-C26	-2.93	118.48	122.61
29	1S	310	CLA	C2D-C1D-ND	2.93	112.27	110.10
29	01	307	CLA	CMD-C2D-C3D	-2.93	120.87	127.61
29	08	307	CLA	CMD-C2D-C3D	-2.93	120.87	127.61
30	1S	307	CHL	CMD-C2D-C3D	-2.93	120.87	127.61
30	00	304	CHL	CMD-C2D-C3D	-2.93	120.87	127.61
29	1N	311	CLA	CHC-C1C-C2C	-2.93	118.59	126.73
29	09	309	CLA	CMA-C3A-C2A	-2.93	109.26	116.10
29	1n	604	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
29	1B	604	CLA	C2D-C1D-ND	2.93	112.26	110.10
29	1S	311	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
29	1s	305	CLA	CMB-C2B-C1B	2.93	129.83	125.37
29	1d	407	CLA	C2D-C1D-ND	2.93	112.26	110.10
29	1c	507	CLA	CMB-C2B-C1B	2.93	129.83	125.37
29	1C	504	CLA	C1D-CHD-C4C	-2.93	119.74	126.06
29	04	312	CLA	C2D-C1D-ND	2.93	112.26	110.10
29	1r	311	CLA	CMD-C2D-C3D	-2.93	120.88	127.61
29	09	310	CLA	CAC-C3C-C4C	2.93	128.61	124.81
29	1C	503	CLA	CHB-C4A-NA	2.93	128.56	124.51
29	1C	512	CLA	C3B-C4B-NB	2.93	113.23	110.52
30	1n	608	CHL	CHB-C1B-NB	-2.93	121.16	124.26
29	1C	513	CLA	CHB-C4A-NA	2.93	128.56	124.51
29	1S	313	CLA	CMD-C2D-C3D	-2.93	120.89	127.61
29	1N	312	CLA	C4C-C3C-C2C	-2.93	102.63	106.90
29	01	309	CLA	CHC-C1C-C2C	-2.92	118.61	126.73
30	1r	313	CHL	CHB-C1B-NB	-2.92	121.16	124.26
29	1B	605	CLA	CHB-C4A-NA	2.92	128.56	124.51
29	06	602	CLA	C4C-C3C-C2C	-2.92	102.64	106.90
30	1n	606	CHL	CHB-C4A-NA	2.92	128.55	124.51
29	09	302	CLA	CMD-C2D-C3D	-2.92	120.89	127.61
29	1S	310	CLA	CMD-C2D-C3D	-2.92	120.89	127.61
29	1C	503	CLA	C4-C3-C5	2.92	120.19	115.27
31	01	315	LUT	C31-C32-C33	2.92	134.62	126.42
29	1G	604	CLA	CHB-C4A-NA	2.92	128.55	124.51
29	1N	305	CLA	CHC-C4B-NB	-2.92	121.17	124.26
35	04	313	BCR	C35-C13-C14	-2.92	118.83	122.92
29	01	311	CLA	CAC-C3C-C4C	2.92	128.60	124.81
29	1R	309	CLA	CHB-C4A-NA	2.92	128.55	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	09	314	LUT	C35-C15-C14	2.92	129.45	123.47
29	1R	306	CLA	CMB-C2B-C1B	2.92	129.81	125.37
35	1B	619	BCR	C10-C11-C12	2.92	132.33	123.22
29	1n	602	CLA	CMC-C2C-C1C	2.92	129.48	125.04
29	05	308	CLA	CMD-C2D-C3D	-2.92	120.90	127.61
29	09	301	CLA	C4-C3-C5	2.92	120.18	115.27
29	1G	610	CLA	C1D-CHD-C4C	-2.92	119.76	126.06
29	1G	611	CLA	CMD-C2D-C3D	-2.92	120.90	127.61
29	1r	309	CLA	CHC-C1C-C2C	-2.92	118.63	126.73
29	1C	504	CLA	C3B-C4B-NB	2.92	113.22	110.52
29	1S	314	CLA	CMC-C2C-C1C	2.92	129.48	125.04
29	1a	406	CLA	O2A-CGA-CBA	2.92	121.06	111.91
29	06	607	CLA	CHB-C4A-NA	2.92	128.54	124.51
29	1N	314	CLA	C1-C2-C3	-2.92	121.00	126.04
29	07	307	CLA	CMD-C2D-C3D	-2.92	120.91	127.61
30	01	305	CHL	CHB-C1B-NB	-2.92	121.17	124.26
35	1D	406	BCR	C33-C5-C6	2.92	127.80	124.53
45	1f	101	HEM	CHD-C1D-C2D	-2.92	120.42	124.98
29	1B	604	CLA	C1-C2-C3	-2.91	121.00	126.04
29	1R	307	CLA	CHB-C4A-NA	2.91	128.54	124.51
29	1B	612	CLA	CMD-C2D-C3D	-2.91	120.91	127.61
29	1C	503	CLA	CMD-C2D-C3D	-2.91	120.91	127.61
29	08	309	CLA	C1D-CHD-C4C	-2.91	119.77	126.06
31	01	315	LUT	C11-C10-C9	2.91	131.47	127.31
29	1b	609	CLA	C1-C2-C3	-2.91	121.00	126.04
30	00	305	CHL	CMD-C2D-C3D	-2.91	120.91	127.61
29	05	308	CLA	C2D-C1D-ND	2.91	112.25	110.10
29	1G	610	CLA	CMD-C2D-C3D	-2.91	120.91	127.61
30	05	315	CHL	CMB-C2B-C1B	2.91	129.81	125.37
29	1S	314	CLA	C3B-C4B-NB	2.91	113.22	110.52
29	1n	602	CLA	CMD-C2D-C3D	-2.91	120.92	127.61
29	1S	310	CLA	CMA-C3A-C2A	-2.91	109.30	116.10
29	1A	407	CLA	CMB-C2B-C1B	2.91	129.80	125.37
29	07	312	CLA	CMD-C2D-C3D	-2.91	120.92	127.61
31	00	313	LUT	C39-C29-C28	2.91	122.66	118.08
29	1B	608	CLA	C2D-C1D-ND	2.91	112.25	110.10
29	08	311	CLA	CMD-C2D-C3D	-2.91	120.92	127.61
29	1c	506	CLA	C4C-C3C-C2C	-2.91	102.66	106.90
30	08	304	CHL	CAA-C2A-C3A	-2.91	109.31	116.10
29	06	607	CLA	CMD-C2D-C3D	-2.91	120.93	127.61
29	09	317	CLA	C4A-NA-C1A	2.91	108.01	106.71
29	1G	614	CLA	C2D-C1D-ND	2.91	112.25	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	612	CLA	O2A-CGA-CBA	2.91	121.03	111.91
30	07	305	CHL	CBD-CHA-C1A	2.91	132.08	127.43
29	1S	305	CLA	CHD-C1D-ND	-2.91	121.78	124.45
30	09	308	CHL	CMD-C2D-C3D	-2.91	120.93	127.61
29	1c	506	CLA	CHB-C4A-NA	2.91	128.53	124.51
29	00	310	CLA	C1-C2-C3	-2.91	121.02	126.04
29	05	303	CLA	CHB-C4A-NA	2.91	128.53	124.51
31	1g	615	LUT	C20-C13-C14	-2.91	118.85	122.92
29	1b	613	CLA	C1-C2-C3	-2.91	121.02	126.04
29	1G	610	CLA	CHC-C1C-C2C	-2.91	118.66	126.73
29	1C	512	CLA	CMD-C2D-C3D	-2.91	120.93	127.61
29	03	308	CLA	CHB-C4A-NA	2.90	128.53	124.51
29	1b	612	CLA	C4D-CHA-C1A	-2.90	117.71	121.25
29	1B	602	CLA	C1D-CHD-C4C	-2.90	119.79	126.06
30	05	305	CHL	CMB-C2B-C1B	2.90	129.79	125.37
30	1g	601	CHL	CMD-C2D-C3D	-2.90	120.94	127.61
29	1c	506	CLA	C4-C3-C5	2.90	120.16	115.27
29	1s	313	CLA	CHB-C1B-NB	-2.90	121.18	124.26
29	1s	313	CLA	CHB-C4A-NA	2.90	128.53	124.51
29	1B	601	CLA	C4A-NA-C1A	-2.90	105.40	106.71
29	1r	308	CLA	C1-C2-C3	-2.90	121.02	126.04
29	1b	602	CLA	C4-C3-C5	2.90	120.15	115.27
29	08	312	CLA	C1D-CHD-C4C	-2.90	119.80	126.06
30	04	305	CHL	C1C-C2C-C3C	-2.90	104.81	107.11
29	1n	612	CLA	CMB-C2B-C1B	2.90	129.79	125.37
30	1S	304	CHL	CMB-C2B-C1B	2.90	129.79	125.37
30	1r	307	CHL	CMB-C2B-C1B	2.90	129.79	125.37
29	1s	305	CLA	CHC-C4B-NB	-2.90	121.19	124.26
29	1g	611	CLA	CHB-C4A-NA	2.90	128.52	124.51
30	1g	601	CHL	CMB-C2B-C1B	2.90	129.78	125.37
29	1G	604	CLA	CMD-C2D-C3D	-2.90	120.94	127.61
29	1g	614	CLA	C1D-CHD-C4C	-2.90	119.80	126.06
30	05	305	CHL	O2A-CGA-CBA	2.90	121.00	111.91
29	1S	316	CLA	C2D-C1D-ND	2.90	112.24	110.10
29	1r	312	CLA	O2A-CGA-CBA	2.90	121.00	111.91
30	08	301	CHL	C1C-C2C-C3C	-2.90	104.81	107.11
29	02	614	CLA	CMD-C2D-C3D	-2.90	120.95	127.61
30	05	307	CHL	C1C-C2C-C3C	-2.90	104.81	107.11
29	1C	507	CLA	C4-C3-C5	2.90	120.14	115.27
29	00	303	CLA	CMD-C2D-C3D	-2.90	120.95	127.61
29	05	303	CLA	C3B-C4B-NB	2.90	113.20	110.52
29	01	310	CLA	CAC-C3C-C4C	2.90	128.57	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	512	CLA	CHB-C4A-NA	2.90	128.52	124.51
29	05	308	CLA	CHB-C1B-NB	-2.90	121.19	124.26
30	1G	606	CHL	CHB-C1B-NB	-2.90	121.19	124.26
31	09	313	LUT	C32-C33-C34	2.90	123.39	118.94
29	1b	615	CLA	C1-C2-C3	-2.90	121.04	126.04
29	04	312	CLA	CMB-C2B-C1B	2.89	129.78	125.37
29	1C	506	CLA	CHC-C4B-NB	-2.89	121.19	124.26
30	1N	307	CHL	CHB-C1B-NB	-2.89	121.19	124.26
29	1G	602	CLA	O2A-CGA-CBA	2.89	120.99	111.91
29	1c	503	CLA	CMC-C2C-C1C	2.89	129.45	125.04
29	05	309	CLA	CMD-C2D-C3D	-2.89	120.96	127.61
29	1r	309	CLA	CMD-C2D-C3D	-2.89	120.96	127.61
29	1c	507	CLA	C4-C3-C5	2.89	120.14	115.27
29	1S	311	CLA	CHB-C4A-NA	2.89	128.51	124.51
29	1B	616	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
29	1s	314	CLA	CMD-C2D-C3D	-2.89	120.96	127.61
29	05	303	CLA	CHC-C4B-NB	-2.89	121.19	124.26
29	1a	406	CLA	C4C-C3C-C2C	-2.89	102.68	106.90
29	00	309	CLA	C4-C3-C5	2.89	120.14	115.27
29	1c	508	CLA	C4D-CHA-C1A	-2.89	117.73	121.25
29	1c	506	CLA	C1D-CHD-C4C	-2.89	119.82	126.06
29	1B	611	CLA	CMD-C2D-C3D	-2.89	120.96	127.61
34	1S	320	DGD	O1G-C1A-C2A	2.89	120.98	111.91
45	1f	101	HEM	C4C-NC-C1C	2.89	108.18	105.35
30	07	303	CHL	C1C-C2C-C3C	-2.89	104.82	107.11
29	1d	406	CLA	CHC-C1C-C2C	-2.89	118.70	126.73
29	02	614	CLA	CAC-C3C-C4C	2.89	128.56	124.81
29	1r	312	CLA	C1D-CHD-C4C	-2.89	119.82	126.06
29	1r	304	CLA	CAC-C3C-C4C	2.89	128.56	124.81
29	1S	313	CLA	C4C-C3C-C2C	-2.89	102.69	106.90
30	05	306	CHL	C1C-C2C-C3C	-2.89	104.82	107.11
29	1N	315	CLA	C2D-C1D-ND	2.89	112.23	110.10
29	1B	611	CLA	CMC-C2C-C1C	2.89	129.44	125.04
30	1s	308	CHL	CHB-C1B-NB	-2.89	121.20	124.26
29	1N	303	CLA	CMB-C2B-C1B	2.89	129.77	125.37
29	1g	614	CLA	C4C-C3C-C2C	-2.89	102.69	106.90
30	1N	310	CHL	O2A-CGA-CBA	2.89	120.97	111.91
29	05	311	CLA	CAA-C2A-C1A	-2.89	104.68	111.81
31	03	313	LUT	C40-C33-C34	-2.89	118.88	122.92
29	1s	313	CLA	CMD-C2D-C3D	-2.89	120.97	127.61
46	1g	617	XAT	O24-C25-C38	2.89	118.52	115.06
29	1c	512	CLA	C4C-C3C-C2C	-2.89	102.69	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	07	302	CLA	C4D-CHA-C1A	-2.89	117.74	121.25
30	05	313	CHL	CMB-C2B-C1B	2.89	129.76	125.37
29	00	303	CLA	C1-C2-C3	-2.89	122.08	126.75
29	1N	304	CLA	CMD-C2D-C3D	-2.89	120.98	127.61
35	1H	101	BCR	C35-C13-C14	-2.88	118.88	122.92
29	1B	615	CLA	CMD-C2D-C3D	-2.88	120.98	127.61
29	1c	503	CLA	C3B-C4B-NB	2.88	113.19	110.52
29	1r	312	CLA	CMD-C2D-C3D	-2.88	120.98	127.61
29	09	317	CLA	CHC-C1C-C2C	-2.88	118.72	126.73
29	1b	603	CLA	CAC-C3C-C4C	2.88	128.55	124.81
30	1S	307	CHL	CHB-C1B-NB	-2.88	121.20	124.26
29	01	309	CLA	C1D-CHD-C4C	-2.88	119.84	126.06
31	1s	318	LUT	C18-C5-C6	2.88	127.77	124.53
46	1G	619	XAT	C6-C7-C8	-2.88	119.90	125.99
29	1B	604	CLA	O2A-CGA-O1A	-2.88	116.32	123.59
35	1b	619	BCR	C12-C13-C14	2.88	123.36	118.94
33	1n	617	LHG	O7-C5-C6	2.88	118.84	108.40
29	1n	610	CLA	C2D-C1D-ND	2.88	112.23	110.10
29	08	306	CLA	CMD-C2D-C3D	-2.88	120.98	127.61
29	1S	314	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
30	1R	303	CHL	CHB-C4A-NA	2.88	128.50	124.51
29	02	611	CLA	CMD-C2D-C3D	-2.88	120.99	127.61
29	02	609	CLA	CMB-C2B-C1B	2.88	129.76	125.37
30	02	607	CHL	C1C-C2C-C3C	-2.88	104.83	107.11
29	1n	611	CLA	C3B-C4B-NB	2.88	113.19	110.52
30	07	306	CHL	CMB-C2B-C1B	2.88	129.75	125.37
29	1g	612	CLA	C2D-C1D-ND	2.88	112.23	110.10
29	1b	608	CLA	C1-C2-C3	-2.88	121.06	126.04
35	1h	101	BCR	C2-C1-C6	2.88	114.91	110.48
29	1R	310	CLA	CAC-C3C-C4C	2.88	128.54	124.81
29	1r	311	CLA	CMB-C2B-C1B	2.88	129.75	125.37
35	1h	101	BCR	C30-C25-C24	2.88	123.92	115.78
29	06	607	CLA	CHB-C1B-NB	-2.88	121.21	124.26
29	09	301	CLA	CHB-C1B-NB	-2.88	121.21	124.26
29	1D	402	CLA	C1-C2-C3	-2.88	122.10	126.75
35	1B	630	BCR	C36-C18-C17	-2.88	118.89	122.92
29	01	310	CLA	CMD-C2D-C3D	-2.88	121.00	127.61
30	1N	307	CHL	CHB-C4A-NA	2.88	128.49	124.51
30	04	304	CHL	CMB-C2B-C1B	2.88	129.75	125.37
31	00	314	LUT	C20-C13-C14	-2.88	118.89	122.92
29	08	308	CLA	CHC-C4B-NB	-2.88	121.21	124.26
29	1c	515	CLA	CHB-C4A-NA	2.88	128.49	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	308	CLA	C3B-C4B-NB	2.87	113.18	110.52
34	1c	519	DGD	O1G-C1A-C2A	2.87	120.93	111.91
30	1N	308	CHL	CMB-C2B-C1B	2.87	129.75	125.37
29	1g	614	CLA	O2D-CGD-O1D	-2.87	118.22	123.84
29	1B	612	CLA	C4C-C3C-C2C	-2.87	102.71	106.90
33	1S	303	LHG	O7-C7-C8	2.87	117.69	111.50
30	1r	306	CHL	CMB-C2B-C1B	2.87	129.75	125.37
29	02	608	CLA	C3B-C4B-NB	2.87	113.18	110.52
29	1B	607	CLA	C2D-C1D-ND	2.87	112.22	110.10
29	1B	605	CLA	CMD-C2D-C3D	-2.87	121.01	127.61
29	08	309	CLA	CMB-C2B-C1B	2.87	129.74	125.37
29	1r	312	CLA	C6-C5-C3	-2.87	109.92	114.62
30	1g	608	CHL	CMD-C2D-C3D	-2.87	121.01	127.61
29	1S	311	CLA	C3B-C4B-NB	2.87	113.18	110.52
29	01	308	CLA	CMC-C2C-C1C	2.87	129.41	125.04
29	1g	611	CLA	CMB-C2B-C1B	2.87	129.74	125.37
29	1S	311	CLA	CMD-C2D-C3D	-2.87	121.01	127.61
29	1g	602	CLA	O2A-CGA-CBA	2.87	120.92	111.91
30	1n	609	CHL	CMB-C2B-C1B	2.87	129.74	125.37
29	09	310	CLA	CMD-C2D-C3D	-2.87	121.01	127.61
29	08	311	CLA	C3B-C4B-NB	2.87	113.18	110.52
35	1B	618	BCR	C19-C18-C17	2.87	123.34	118.94
30	06	605	CHL	CMB-C2B-C1B	2.87	129.74	125.37
34	1c	518	DGD	O3G-C3G-C2G	-2.87	103.98	110.90
29	1B	607	CLA	CHC-C4B-NB	-2.87	121.22	124.26
29	1a	405	CLA	O2A-CGA-CBA	2.87	120.91	111.91
29	1C	505	CLA	C1-C2-C3	-2.87	121.08	126.04
29	1b	603	CLA	CHC-C4B-NB	-2.87	121.22	124.26
29	08	308	CLA	CMB-C2B-C1B	2.87	129.74	125.37
30	02	607	CHL	CMD-C2D-C3D	-2.87	121.02	127.61
29	01	308	CLA	CAC-C3C-C4C	2.87	128.53	124.81
29	04	306	CLA	CAC-C3C-C4C	2.87	128.53	124.81
29	07	310	CLA	C2D-C1D-ND	2.87	112.22	110.10
29	1B	610	CLA	C3D-C2D-C1D	-2.87	101.92	105.83
29	1B	612	CLA	CAC-C3C-C4C	2.86	128.53	124.81
29	1R	311	CLA	C4C-C3C-C2C	-2.86	102.72	106.90
29	1C	511	CLA	CMB-C2B-C1B	2.86	129.73	125.37
29	1r	310	CLA	CAC-C3C-C4C	2.86	128.53	124.81
32	00	315	VIV	O1-C9-C14	2.86	112.15	105.30
29	09	317	CLA	C1-C2-C3	-2.86	121.09	126.04
35	1H	101	BCR	C16-C15-C14	2.86	129.34	123.47
29	1s	314	CLA	CAC-C3C-C4C	2.86	128.53	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1S	307	CHL	C1C-C2C-C3C	-2.86	104.84	107.11
29	1r	310	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
29	09	301	CLA	O2A-CGA-CBA	2.86	120.89	111.91
30	00	308	CHL	C4-C3-C5	2.86	120.09	115.27
30	02	606	CHL	CMB-C2B-C1B	2.86	129.73	125.37
35	1a	409	BCR	C37-C22-C23	2.86	122.59	118.08
30	04	302	CHL	C1C-C2C-C3C	-2.86	104.84	107.11
29	06	608	CLA	CMB-C2B-C1B	2.86	129.73	125.37
30	07	303	CHL	CMB-C2B-C1B	2.86	129.73	125.37
29	1c	515	CLA	CMD-C2D-C3D	-2.86	121.03	127.61
46	1r	316	XAT	C24-C23-C22	-2.86	105.25	110.77
29	03	301	CLA	C1-C2-C3	-2.86	121.10	126.04
29	1n	614	CLA	CAA-C2A-C3A	-2.86	109.42	116.10
29	1S	314	CLA	CHC-C4B-NB	-2.86	121.23	124.26
35	1b	601	BCR	C23-C22-C21	2.86	123.33	118.94
29	1N	314	CLA	CHD-C1D-ND	-2.86	121.83	124.45
30	07	304	CHL	CMB-C2B-C1B	2.86	129.72	125.37
29	00	303	CLA	C2D-C1D-ND	2.86	112.21	110.10
29	1b	609	CLA	CHD-C1D-ND	-2.86	121.83	124.45
29	05	312	CLA	CMB-C2B-C1B	2.86	129.72	125.37
29	1g	612	CLA	CAC-C3C-C4C	2.86	128.52	124.81
30	1N	302	CHL	CMB-C2B-C1B	2.86	129.72	125.37
35	1I	102	BCR	C33-C5-C6	2.86	127.74	124.53
29	1R	314	CLA	C1D-CHD-C4C	-2.86	119.89	126.06
29	1b	613	CLA	CHB-C1B-NB	-2.86	121.23	124.26
29	1C	513	CLA	CAA-C2A-C3A	-2.86	109.43	116.10
35	1b	620	BCR	C12-C13-C14	2.86	123.32	118.94
29	05	303	CLA	C1D-CHD-C4C	-2.86	119.90	126.06
29	1S	305	CLA	CMB-C2B-C1B	2.86	129.72	125.37
30	1g	607	CHL	C1D-ND-C4D	-2.86	104.31	106.33
29	02	610	CLA	CMD-C2D-C3D	-2.86	121.04	127.61
29	03	301	CLA	CMC-C2C-C1C	2.86	129.39	125.04
29	1R	312	CLA	CMD-C2D-C3D	-2.86	121.05	127.61
29	1G	614	CLA	CMB-C2B-C1B	2.86	129.72	125.37
30	06	606	CHL	CMB-C2B-C1B	2.86	129.72	125.37
31	00	313	LUT	C40-C33-C34	-2.86	118.92	122.92
29	1s	312	CLA	C1-C2-C3	-2.86	121.11	126.04
29	1N	304	CLA	C4C-C3C-C2C	-2.86	102.74	106.90
29	1c	514	CLA	CMC-C2C-C1C	2.85	129.39	125.04
35	1j	101	BCR	C30-C25-C26	-2.85	118.59	122.61
29	1S	306	CLA	CHB-C4A-NA	2.85	128.46	124.51
29	08	310	CLA	CAC-C3C-C4C	2.85	128.51	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	503	CLA	CHB-C4A-NA	2.85	128.46	124.51
29	1r	308	CLA	CAC-C3C-C4C	2.85	128.51	124.81
30	1G	608	CHL	CMB-C2B-C1B	2.85	129.71	125.37
29	1N	303	CLA	O2A-CGA-CBA	2.85	120.86	111.91
29	1n	614	CLA	CMD-C2D-C3D	-2.85	121.06	127.61
34	1b	627	DGD	O1G-C1A-C2A	2.85	120.86	111.91
30	01	302	CHL	CMB-C2B-C1B	2.85	129.71	125.37
30	1g	605	CHL	CMB-C2B-C1B	2.85	129.71	125.37
29	1n	603	CLA	CHC-C4B-NB	-2.85	121.24	124.26
29	1C	512	CLA	CHB-C4A-NA	2.85	128.45	124.51
29	1B	608	CLA	C4D-CHA-C1A	-2.85	117.78	121.25
31	1g	616	LUT	C19-C9-C8	2.85	122.57	118.08
30	1g	606	CHL	C1C-C2C-C3C	-2.85	104.85	107.11
29	1n	612	CLA	CAC-C3C-C4C	2.85	128.51	124.81
30	03	311	CHL	CMD-C2D-C3D	-2.85	121.06	127.61
46	1G	619	XAT	C11-C12-C13	-2.85	118.41	126.42
29	03	306	CLA	CHB-C1B-NB	-2.85	121.24	124.26
29	1s	313	CLA	C2D-C1D-ND	2.85	112.20	110.10
29	1S	315	CLA	C4C-C3C-C2C	-2.85	102.74	106.90
29	04	309	CLA	C4C-C3C-C2C	-2.85	102.75	106.90
30	1N	308	CHL	CMD-C2D-C3D	-2.85	121.06	127.61
29	1n	610	CLA	CED-O2D-CGD	2.85	122.38	115.94
35	1c	516	BCR	C35-C13-C14	-2.85	118.93	122.92
29	1g	612	CLA	C4A-NA-C1A	2.85	107.99	106.71
29	1d	403	CLA	O2A-CGA-CBA	2.85	120.84	111.91
29	07	310	CLA	CMD-C2D-C3D	-2.85	121.06	127.61
29	1G	614	CLA	CMD-C2D-C3D	-2.85	121.06	127.61
29	1n	603	CLA	C4-C3-C5	2.85	120.06	115.27
29	1r	302	CLA	CMC-C2C-C1C	2.85	129.37	125.04
30	1g	607	CHL	CMB-C2B-C1B	2.85	129.70	125.37
29	1b	612	CLA	CHC-C4B-NB	-2.85	121.24	124.26
29	1C	508	CLA	C4C-C3C-C2C	-2.85	102.75	106.90
31	00	314	LUT	C40-C33-C34	-2.84	118.94	122.92
35	1b	618	BCR	C35-C13-C14	-2.84	118.94	122.92
29	01	308	CLA	C4C-C3C-C2C	-2.84	102.75	106.90
29	1a	406	CLA	CMD-C2D-C3D	-2.84	121.07	127.61
35	1k	102	BCR	C34-C9-C8	2.84	122.56	118.08
29	03	307	CLA	C2D-C1D-ND	2.84	112.20	110.10
29	04	310	CLA	C1D-CHD-C4C	-2.84	119.92	126.06
29	1g	604	CLA	CMD-C2D-C3D	-2.84	121.07	127.61
29	1b	615	CLA	C1D-CHD-C4C	-2.84	119.92	126.06
30	1g	607	CHL	C3D-C4D-ND	2.84	114.83	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1g	602	CLA	CHB-C4A-NA	2.84	128.44	124.51
30	03	311	CHL	CMB-C2B-C1B	2.84	129.70	125.37
29	1N	315	CLA	CAA-C2A-C3A	-2.84	109.47	116.10
29	05	308	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
29	1g	610	CLA	CMD-C2D-C3D	-2.84	121.08	127.61
31	03	313	LUT	C32-C33-C34	2.84	123.30	118.94
29	1G	610	CLA	CHB-C4A-NA	2.84	128.44	124.51
29	1b	606	CLA	O1D-CGD-CBD	-2.84	118.67	124.48
29	1r	304	CLA	CMD-C2D-C3D	-2.84	121.08	127.61
31	05	314	LUT	C31-C30-C29	2.84	131.36	127.31
29	1G	612	CLA	CMD-C2D-C3D	-2.84	121.09	127.61
29	1s	316	CLA	CMB-C2B-C1B	2.84	129.69	125.37
29	1c	507	CLA	C1D-CHD-C4C	-2.84	119.94	126.06
29	00	310	CLA	CMD-C2D-C3D	-2.84	121.09	127.61
46	1r	316	XAT	C12-C13-C14	2.84	123.29	118.94
29	1D	401	CLA	O2A-CGA-CBA	2.84	120.81	111.91
30	08	304	CHL	CMB-C2B-C1B	2.84	129.69	125.37
29	1s	312	CLA	CMC-C2C-C1C	2.83	129.36	125.04
29	1g	610	CLA	C2D-C1D-ND	2.83	112.19	110.10
29	07	301	CLA	CMB-C2B-C1B	2.83	129.69	125.37
29	01	308	CLA	CMD-C2D-C3D	-2.83	121.09	127.61
35	1d	409	BCR	C8-C9-C10	2.83	123.29	118.94
35	1Z	102	BCR	C33-C5-C6	2.83	127.71	124.53
29	1g	612	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
30	05	304	CHL	C3D-C4D-ND	2.83	114.82	110.24
29	02	614	CLA	C1D-CHD-C4C	-2.83	119.95	126.06
29	1n	603	CLA	CMD-C2D-C3D	-2.83	121.10	127.61
29	1R	314	CLA	C4C-C3C-C2C	-2.83	102.77	106.90
31	07	313	LUT	C12-C13-C14	2.83	123.29	118.94
29	1c	505	CLA	CHB-C4A-NA	2.83	128.43	124.51
46	1g	617	XAT	C30-C31-C32	2.83	132.05	123.22
29	1B	605	CLA	CHC-C4B-NB	-2.83	121.26	124.26
35	1B	618	BCR	C15-C16-C17	2.83	129.27	123.47
30	08	303	CHL	CMB-C2B-C1B	2.83	129.68	125.37
30	02	604	CHL	CMD-C2D-C3D	-2.83	121.10	127.61
29	1S	314	CLA	CMD-C2D-C3D	-2.83	121.11	127.61
29	1c	503	CLA	CMD-C2D-C3D	-2.83	121.11	127.61
29	03	306	CLA	CHB-C4A-NA	2.83	128.42	124.51
29	1c	505	CLA	C2D-C1D-ND	2.83	112.19	110.10
29	08	312	CLA	C4C-C3C-C2C	-2.83	102.78	106.90
30	04	302	CHL	CHB-C1B-NB	-2.83	121.26	124.26
29	1s	316	CLA	C4C-C3C-C2C	-2.83	102.78	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1g	612	CLA	C1-C2-C3	-2.83	121.15	126.04
29	01	301	CLA	O2A-CGA-CBA	2.83	120.78	111.91
29	1S	306	CLA	C2D-C1D-ND	2.83	112.19	110.10
35	1Z	102	BCR	C16-C15-C14	2.83	129.26	123.47
30	1G	607	CHL	CMD-C2D-C3D	-2.83	121.11	127.61
29	1n	604	CLA	CHB-C4A-NA	2.83	128.42	124.51
29	03	306	CLA	CMD-C2D-C3D	-2.83	121.11	127.61
40	1E	102	PL9	C45-C44-C46	2.83	120.02	115.27
30	1s	310	CHL	CMB-C2B-C1B	2.83	129.67	125.37
29	1c	509	CLA	CHC-C4B-NB	-2.83	121.27	124.26
30	07	305	CHL	CMB-C2B-C1B	2.82	129.67	125.37
30	06	604	CHL	CMB-C2B-C1B	2.82	129.67	125.37
30	1G	605	CHL	CMB-C2B-C1B	2.82	129.67	125.37
40	1E	102	PL9	C7-C3-C2	-2.82	119.59	123.30
29	1g	610	CLA	CHB-C1B-NB	-2.82	121.27	124.26
30	1g	601	CHL	C1-C2-C3	-2.82	121.16	126.04
29	06	607	CLA	CAC-C3C-C4C	2.82	128.47	124.81
29	03	301	CLA	C3B-C4B-NB	2.82	113.13	110.52
29	1B	610	CLA	C4A-NA-C1A	2.82	107.97	106.71
29	1N	305	CLA	CHB-C4A-NA	2.82	128.41	124.51
29	02	613	CLA	C4C-C3C-C2C	-2.82	102.78	106.90
29	1s	316	CLA	C2A-C1A-CHA	-2.82	118.92	123.86
29	1n	604	CLA	C1D-CHD-C4C	-2.82	119.97	126.06
30	08	302	CHL	CMB-C2B-C1B	2.82	129.67	125.37
29	1C	504	CLA	C4-C3-C5	2.82	120.02	115.27
30	1N	310	CHL	C1C-C2C-C3C	-2.82	104.88	107.11
30	1s	309	CHL	O2D-CGD-O1D	-2.82	118.32	123.84
29	1N	312	CLA	CMB-C2B-C1B	2.82	129.66	125.37
29	1C	506	CLA	C4A-NA-C1A	2.82	107.97	106.71
29	1R	307	CLA	CMD-C2D-C3D	-2.82	121.13	127.61
40	1r	301	PL9	C42-C41-C39	2.82	122.25	112.98
29	1a	408	CLA	O2A-CGA-CBA	2.82	120.76	111.91
41	1B	622	SQD	O47-C7-C8	2.82	117.58	111.50
29	1G	602	CLA	CHB-C4A-NA	2.82	128.41	124.51
29	01	307	CLA	C4C-C3C-C2C	-2.82	102.79	106.90
29	03	301	CLA	CMD-C2D-C3D	-2.82	121.13	127.61
29	1G	603	CLA	CMD-C2D-C3D	-2.82	121.13	127.61
29	1C	510	CLA	C1-C2-C3	-2.82	121.17	126.04
29	1G	603	CLA	C4C-C3C-C2C	-2.82	102.79	106.90
30	06	605	CHL	CMD-C2D-C3D	-2.82	121.13	127.61
30	06	603	CHL	CMB-C2B-C1B	2.82	129.66	125.37
29	03	308	CLA	C1D-CHD-C4C	-2.82	119.98	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	609	CHL	OMC-CMC-C2C	-2.82	119.32	125.69
29	1c	509	CLA	CAC-C3C-C4C	2.82	128.47	124.81
30	01	304	CHL	O2A-CGA-CBA	2.82	120.75	111.91
29	1a	408	CLA	C1-C2-C3	-2.82	121.17	126.04
33	1a	413	LHG	C5-O7-C7	-2.82	110.86	117.79
29	1S	316	CLA	CMB-C2B-C1B	2.82	129.66	125.37
29	02	608	CLA	CHB-C4A-NA	2.82	128.41	124.51
29	1b	613	CLA	CHB-C4A-NA	2.82	128.41	124.51
30	03	302	CHL	CMB-C2B-C1B	2.82	129.66	125.37
29	1s	306	CLA	C4A-NA-C1A	2.82	107.97	106.71
29	1R	308	CLA	O2A-CGA-CBA	2.82	120.74	111.91
29	1n	610	CLA	O2A-CGA-CBA	2.82	120.74	111.91
30	1S	309	CHL	CMB-C2B-C1B	2.82	129.66	125.37
29	1B	603	CLA	C1D-CHD-C4C	-2.81	119.98	126.06
30	08	305	CHL	C1C-C2C-C3C	-2.81	104.88	107.11
29	05	309	CLA	CMB-C2B-C1B	2.81	129.66	125.37
30	02	607	CHL	CMB-C2B-C1B	2.81	129.66	125.37
31	03	313	LUT	C20-C13-C14	-2.81	118.98	122.92
29	1g	602	CLA	CHB-C1B-NB	-2.81	121.28	124.26
29	1r	303	CLA	CAC-C3C-C4C	2.81	128.46	124.81
29	1n	611	CLA	O2A-CGA-CBA	2.81	120.74	111.91
29	01	309	CLA	CHB-C4A-NA	2.81	128.40	124.51
29	08	306	CLA	CMB-C2B-C1B	2.81	129.65	125.37
29	1b	617	CLA	CMD-C2D-C3D	-2.81	121.14	127.61
29	06	609	CLA	CMB-C2B-C1B	2.81	129.65	125.37
30	1G	609	CHL	CMB-C2B-C1B	2.81	129.65	125.37
35	1c	516	BCR	C34-C9-C8	2.81	122.51	118.08
35	1H	101	BCR	C33-C5-C6	2.81	127.69	124.53
30	1s	309	CHL	CMB-C2B-C1B	2.81	129.65	125.37
29	1g	603	CLA	CMC-C2C-C1C	2.81	129.32	125.04
29	1s	311	CLA	CMB-C2B-C1B	2.81	129.65	125.37
30	03	305	CHL	CMB-C2B-C1B	2.81	129.65	125.37
29	1b	602	CLA	CMD-C2D-C3D	-2.81	121.15	127.61
29	1D	402	CLA	CHC-C4B-NB	-2.81	121.28	124.26
31	01	315	LUT	C1-C6-C5	-2.81	118.65	122.61
29	1C	507	CLA	C4D-CHA-C1A	-2.81	117.83	121.25
29	04	308	CLA	CAC-C3C-C4C	2.81	128.46	124.81
30	1G	607	CHL	CMA-C3A-C2A	-2.81	102.50	113.83
29	09	302	CLA	C4C-C3C-C2C	-2.81	102.80	106.90
29	1s	307	CLA	CMB-C2B-C1B	2.81	129.65	125.37
29	1b	609	CLA	CAC-C3C-C4C	2.81	128.45	124.81
29	04	307	CLA	C4C-C3C-C2C	-2.81	102.81	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	607	CHL	O2A-CGA-CBA	2.81	120.72	111.91
29	1C	503	CLA	CHB-C1B-NB	-2.81	121.28	124.26
35	1j	101	BCR	C20-C21-C22	2.81	131.32	127.31
30	1N	309	CHL	CMB-C2B-C1B	2.81	129.64	125.37
46	1g	617	XAT	C27-C28-C29	-2.81	121.17	125.53
29	1r	303	CLA	CMD-C2D-C3D	-2.81	121.16	127.61
29	1b	602	CLA	CHB-C1B-NB	-2.81	121.29	124.26
30	09	307	CHL	CMB-C2B-C1B	2.81	129.64	125.37
29	1B	603	CLA	C2D-C1D-ND	2.81	112.17	110.10
29	1c	505	CLA	C4-C3-C5	2.81	119.99	115.27
34	1C	517	DGD	O1G-C1A-C2A	2.80	120.71	111.91
30	1g	608	CHL	CHB-C1B-NB	-2.80	121.29	124.26
30	03	302	CHL	C1C-C2C-C3C	-2.80	104.89	107.11
30	01	302	CHL	CMD-C2D-C3D	-2.80	121.17	127.61
29	1N	313	CLA	CMB-C2B-C1B	2.80	129.64	125.37
29	1R	311	CLA	CMB-C2B-C1B	2.80	129.64	125.37
29	1c	505	CLA	CMB-C2B-C1B	2.80	129.64	125.37
29	1B	606	CLA	C4-C3-C5	2.80	119.98	115.27
29	1n	610	CLA	C4-C3-C5	2.80	119.98	115.27
30	1G	601	CHL	CAC-C3C-C4C	2.80	128.44	124.81
29	1B	604	CLA	CHB-C4A-NA	2.80	128.39	124.51
29	1C	512	CLA	O2A-CGA-CBA	2.80	120.70	111.91
30	04	302	CHL	CMD-C2D-C3D	-2.80	121.17	127.61
29	1A	407	CLA	C3B-C4B-NB	2.80	113.11	110.52
30	06	604	CHL	CMD-C2D-C3D	-2.80	121.17	127.61
29	04	308	CLA	CHB-C4A-NA	2.80	128.38	124.51
29	1c	515	CLA	O2A-CGA-O1A	-2.80	116.53	123.59
29	06	602	CLA	CMB-C2B-C1B	2.80	129.63	125.37
30	06	606	CHL	C1C-C2C-C3C	-2.80	104.89	107.11
29	00	310	CLA	CAC-C3C-C4C	2.80	128.44	124.81
29	08	312	CLA	CAC-C3C-C4C	2.80	128.44	124.81
30	1R	305	CHL	CMB-C2B-C1B	2.80	129.63	125.37
29	1n	613	CLA	C4-C3-C5	2.80	119.98	115.27
29	1C	509	CLA	CMC-C2C-C1C	2.80	129.30	125.04
29	09	303	CLA	CHB-C4A-NA	2.80	128.38	124.51
29	1S	315	CLA	CAC-C3C-C4C	2.80	128.44	124.81
40	1E	102	PL9	C15-C14-C16	2.80	119.98	115.27
29	1c	508	CLA	CMD-C2D-C3D	-2.80	121.18	127.61
30	09	304	CHL	CMD-C2D-C3D	-2.80	121.18	127.61
30	1n	609	CHL	O2A-CGA-CBA	2.80	120.68	111.91
29	1b	612	CLA	C4A-NA-C1A	2.80	107.96	106.71
29	1D	401	CLA	CMD-C2D-C3D	-2.80	121.18	127.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1n	605	CHL	CMD-C2D-C3D	-2.79	121.19	127.61
29	00	312	CLA	CMC-C2C-C1C	2.79	129.29	125.04
29	08	310	CLA	CAA-C2A-C3A	-2.79	109.58	116.10
30	08	301	CHL	CMD-C2D-C3D	-2.79	121.19	127.61
30	08	301	CHL	CHB-C4A-NA	2.79	128.38	124.51
29	1S	315	CLA	CHB-C1B-NB	-2.79	121.30	124.26
29	1b	617	CLA	C2D-C1D-ND	2.79	112.16	110.10
29	04	314	CLA	C4C-C3C-C2C	-2.79	102.83	106.90
35	1D	406	BCR	C12-C13-C14	2.79	123.23	118.94
29	1S	311	CLA	CAA-C2A-C3A	-2.79	109.58	116.10
30	02	603	CHL	CMD-C2D-C3D	-2.79	121.19	127.61
30	1N	306	CHL	CMD-C2D-C3D	-2.79	121.19	127.61
30	01	304	CHL	CMB-C2B-C1B	2.79	129.62	125.37
29	1S	316	CLA	CMD-C2D-C3D	-2.79	121.19	127.61
30	1g	605	CHL	CMD-C2D-C3D	-2.79	121.19	127.61
30	04	302	CHL	CBD-CHA-C1A	2.79	131.79	128.50
30	05	306	CHL	CMB-C2B-C1B	2.79	129.62	125.37
29	1D	404	CLA	C1-C2-C3	-2.79	121.22	126.04
30	01	306	CHL	CMD-C2D-C3D	-2.79	121.19	127.61
29	1G	603	CLA	CHB-C1B-NB	-2.79	121.30	124.26
29	01	310	CLA	CAA-C2A-C3A	-2.79	105.14	112.78
30	05	315	CHL	CMD-C2D-C3D	-2.79	121.20	127.61
29	04	308	CLA	CAA-C2A-C3A	-2.79	109.59	116.10
30	08	305	CHL	CMB-C2B-C1B	2.79	129.62	125.37
40	1a	412	PL9	C30-C29-C31	2.79	119.96	115.27
29	1C	501	CLA	CMD-C2D-C3D	-2.79	121.20	127.61
29	09	309	CLA	CHB-C4A-NA	2.79	128.37	124.51
29	1B	608	CLA	O2A-CGA-CBA	2.79	120.66	111.91
29	1a	405	CLA	C6-C5-C3	-2.79	110.06	114.62
35	1c	516	BCR	C38-C26-C25	2.79	127.66	124.53
29	01	307	CLA	CHB-C4A-NA	2.79	128.37	124.51
31	00	314	LUT	C19-C9-C8	2.79	122.47	118.08
29	1s	314	CLA	CMB-C2B-C1B	2.79	129.61	125.37
35	1d	409	BCR	C33-C5-C6	2.79	127.66	124.53
29	1a	406	CLA	C3B-C4B-NB	2.79	113.10	110.52
30	1S	308	CHL	CMD-C2D-C3D	-2.79	121.21	127.61
29	05	312	CLA	CHC-C4B-NB	-2.78	121.31	124.26
29	09	317	CLA	C3B-C4B-NB	2.78	113.10	110.52
30	07	304	CHL	CMD-C2D-C3D	-2.78	121.21	127.61
30	05	304	CHL	CMD-C2D-C3D	-2.78	121.21	127.61
29	1n	614	CLA	CMB-C2B-C1B	2.78	129.61	125.37
29	01	313	CLA	CMB-C2B-C1B	2.78	129.61	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	06	603	CHL	CMD-C2D-C3D	-2.78	121.21	127.61
29	1A	404	CLA	C2D-C1D-ND	2.78	112.15	110.10
30	08	302	CHL	CMD-C2D-C3D	-2.78	121.22	127.61
30	09	306	CHL	CMD-C2D-C3D	-2.78	121.22	127.61
30	1s	309	CHL	CAC-C3C-C4C	2.78	128.42	124.81
30	07	306	CHL	CMD-C2D-C3D	-2.78	121.22	127.61
29	1C	503	CLA	C1-C2-C3	-2.78	121.23	126.04
29	09	317	CLA	O2A-CGA-CBA	2.78	120.64	111.91
30	08	302	CHL	C1C-C2C-C3C	-2.78	104.91	107.11
29	00	318	CLA	C4A-NA-C1A	2.78	107.96	106.71
29	1n	604	CLA	CAA-C2A-C3A	-2.78	109.61	116.10
30	1N	310	CHL	CMD-C2D-C3D	-2.78	121.22	127.61
29	1C	509	CLA	C1-C2-C3	-2.78	121.24	126.04
29	1b	608	CLA	CMB-C2B-C1B	2.78	129.60	125.37
34	1C	517	DGD	O3G-C1D-C2D	2.78	112.64	108.30
29	1R	314	CLA	C2D-C1D-ND	2.78	112.15	110.10
29	1s	315	CLA	CMC-C2C-C1C	2.78	129.27	125.04
29	00	301	CLA	O2A-CGA-CBA	2.78	120.62	111.91
35	1i	101	BCR	C33-C5-C6	2.78	127.65	124.53
29	1R	309	CLA	C4D-CHA-C1A	-2.78	117.87	121.25
29	1C	511	CLA	CAC-C3C-C4C	2.78	128.41	124.81
29	1d	406	CLA	O2A-CGA-CBA	2.78	120.62	111.91
29	06	610	CLA	CMB-C2B-C1B	2.78	129.60	125.37
29	1a	406	CLA	CMB-C2B-C1B	2.78	129.60	125.37
30	02	604	CHL	CMB-C2B-C1B	2.78	129.60	125.37
29	00	301	CLA	CHC-C1C-C2C	-2.78	119.02	126.73
30	02	603	CHL	C1C-C2C-C3C	-2.78	104.91	107.11
30	1n	608	CHL	CMB-C2B-C1B	2.78	129.60	125.37
29	1C	505	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
29	1n	614	CLA	C2D-C1D-ND	2.77	112.15	110.10
29	07	302	CLA	O2D-CGD-O1D	-2.77	117.79	124.09
40	1E	102	PL9	C10-C9-C11	2.77	119.94	115.27
29	05	312	CLA	CHB-C1B-NB	-2.77	121.32	124.26
46	1r	316	XAT	C4-C3-C2	-2.77	105.42	110.77
29	1C	506	CLA	CMC-C2C-C1C	2.77	129.26	125.04
29	1n	602	CLA	C2D-C1D-ND	2.77	112.15	110.10
31	1n	615	LUT	C12-C13-C14	2.77	123.19	118.94
29	05	303	CLA	CMB-C2B-C1B	2.77	129.59	125.37
41	1a	410	SQD	O47-C7-O49	-2.77	117.01	123.70
29	05	301	CLA	CMD-C2D-C3D	-2.77	121.24	127.61
29	1B	603	CLA	O2A-CGA-CBA	2.77	120.60	111.91
35	1b	618	BCR	C33-C5-C6	2.77	127.64	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1G	608	CHL	CMD-C2D-C3D	-2.77	121.24	127.61
29	1R	314	CLA	CAC-C3C-C4C	2.77	128.40	124.81
29	09	309	CLA	CMD-C2D-C3D	-2.77	121.24	127.61
29	1n	602	CLA	C1-C2-C3	-2.77	121.25	126.04
29	1S	310	CLA	CHB-C4A-NA	2.77	128.34	124.51
29	00	309	CLA	CMD-C2D-C3D	-2.77	121.25	127.61
31	00	314	LUT	C35-C15-C14	2.77	129.14	123.47
29	09	309	CLA	C2D-C1D-ND	2.77	112.14	110.10
29	00	301	CLA	CHB-C4A-NA	2.77	128.34	124.51
29	1s	316	CLA	CHC-C4B-NB	-2.77	121.33	124.26
29	07	312	CLA	O2D-CGD-O1D	-2.77	117.81	124.09
29	1B	613	CLA	CMD-C2D-C3D	-2.77	121.25	127.61
29	1S	316	CLA	CAC-C3C-C4C	2.77	128.40	124.81
35	1I	102	BCR	C12-C13-C14	2.77	123.19	118.94
29	04	310	CLA	CMB-C2B-C1B	2.77	129.58	125.37
46	1G	617	XAT	C31-C32-C33	2.77	134.19	126.42
29	03	310	CLA	CHB-C4A-NA	2.77	128.34	124.51
29	1B	601	CLA	C1D-CHD-C4C	-2.76	120.09	126.06
29	1s	314	CLA	C4A-NA-C1A	2.76	107.95	106.71
29	1b	609	CLA	CMD-C2D-C3D	-2.76	121.25	127.61
29	1s	305	CLA	CMD-C2D-C3D	-2.76	121.25	127.61
35	1Z	102	BCR	C38-C26-C25	2.76	127.63	124.53
29	03	308	CLA	C2D-C1D-ND	2.76	112.14	110.10
29	00	303	CLA	CHB-C4A-NA	2.76	128.33	124.51
30	03	302	CHL	CMD-C2D-C3D	-2.76	121.26	127.61
30	07	305	CHL	CMD-C2D-C3D	-2.76	121.26	127.61
30	1n	607	CHL	CMD-C2D-C3D	-2.76	121.26	127.61
29	03	310	CLA	C1D-CHD-C4C	-2.76	120.10	126.06
30	03	303	CHL	CMD-C2D-C3D	-2.76	121.26	127.61
30	1G	601	CHL	O2A-CGA-CBA	2.76	120.58	111.91
30	04	302	CHL	CMB-C2B-C1B	2.76	129.58	125.37
30	04	301	CHL	C1C-C2C-C3C	-2.76	104.92	107.11
30	1G	607	CHL	C1C-C2C-C3C	-2.76	104.92	107.11
30	04	302	CHL	C3A-C4A-CHB	-2.76	116.73	124.01
29	03	301	CLA	CMB-C2B-C1B	2.76	129.57	125.37
29	04	314	CLA	C2A-C1A-CHA	-2.76	119.03	123.85
31	00	313	LUT	C20-C13-C14	-2.76	119.06	122.92
41	1D	411	SQD	C44-O6-C1	2.76	119.13	113.74
29	1s	315	CLA	C4A-NA-C1A	2.76	107.95	106.71
29	1b	606	CLA	CED-O2D-CGD	2.76	122.18	115.94
31	1G	615	LUT	C39-C29-C28	2.76	122.42	118.08
29	1r	304	CLA	CHB-C1B-NB	-2.76	121.34	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1b	601	BCR	C30-C25-C26	-2.76	118.73	122.61
30	01	306	CHL	CHB-C1B-NB	-2.76	121.34	124.26
30	1G	606	CHL	CMD-C2D-C3D	-2.76	121.27	127.61
30	06	601	CHL	CMB-C2B-C1B	2.76	129.57	125.37
30	1R	304	CHL	CAA-C2A-C3A	-2.76	107.37	114.26
29	1B	604	CLA	CHB-C1B-NB	-2.76	121.34	124.26
29	1s	307	CLA	CHB-C1B-NB	-2.76	121.34	124.26
29	1b	603	CLA	O2A-CGA-CBA	2.76	120.56	111.91
29	1C	506	CLA	CMD-C2D-C3D	-2.76	121.27	127.61
30	1N	309	CHL	CMD-C2D-C3D	-2.76	121.27	127.61
29	1B	604	CLA	CMB-C2B-C1B	2.76	129.57	125.37
30	1g	609	CHL	CMD-C2D-C3D	-2.76	121.28	127.61
29	1r	309	CLA	CMC-C2C-C1C	2.75	129.23	125.04
29	1S	313	CLA	O2A-CGA-CBA	2.75	120.55	111.91
31	1N	316	LUT	C40-C33-C34	-2.75	119.06	122.92
33	1r	317	LHG	O7-C7-C8	2.75	117.44	111.50
30	04	301	CHL	CHB-C1B-NB	-2.75	121.34	124.26
30	1G	606	CHL	CMB-C2B-C1B	2.75	129.56	125.37
29	1B	601	CLA	C4C-C3C-C2C	-2.75	102.89	106.90
29	1r	303	CLA	CMB-C2B-C1B	2.75	129.56	125.37
29	08	307	CLA	CAA-C2A-C3A	-2.75	109.68	116.10
29	08	309	CLA	CAC-C3C-C4C	2.75	128.38	124.81
29	04	311	CLA	CMB-C2B-C1B	2.75	129.56	125.37
29	1C	502	CLA	CHD-C1D-ND	-2.75	121.93	124.45
29	09	302	CLA	O2A-CGA-CBA	2.75	120.54	111.91
29	1B	607	CLA	CED-O2D-CGD	2.75	122.16	115.94
30	06	601	CHL	C1C-C2C-C3C	-2.75	104.93	107.11
29	1c	504	CLA	C1-C2-C3	-2.75	121.29	126.04
35	1b	620	BCR	C34-C9-C8	2.75	122.41	118.08
29	05	301	CLA	CHB-C1B-NB	-2.75	121.35	124.26
29	1c	504	CLA	C4-C3-C5	2.75	119.89	115.27
29	1N	305	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
29	09	310	CLA	C2D-C1D-ND	2.75	112.13	110.10
29	07	301	CLA	CMC-C2C-C1C	2.75	129.22	125.04
29	1N	314	CLA	O2A-CGA-CBA	2.75	120.53	111.91
30	06	601	CHL	CMD-C2D-C3D	-2.75	121.30	127.61
40	1a	412	PL9	C22-C23-C24	-2.75	121.05	127.66
30	01	305	CHL	CMB-C2B-C1B	2.75	129.55	125.37
41	1D	411	SQD	O6-C44-C45	2.75	117.52	110.90
29	02	614	CLA	CHC-C4B-NB	-2.75	121.35	124.26
30	1G	606	CHL	C1C-C2C-C3C	-2.75	104.94	107.11
29	1r	302	CLA	C3B-C4B-NB	2.75	113.06	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	602	CLA	O2A-CGA-CBA	2.75	120.52	111.91
30	03	304	CHL	CAA-C2A-C3A	-2.75	107.40	114.26
29	1B	612	CLA	CHC-C4B-NB	-2.75	121.35	124.26
29	1B	610	CLA	CHD-C1D-ND	-2.74	121.93	124.45
35	1B	617	BCR	C36-C18-C17	-2.74	119.08	122.92
29	00	309	CLA	C2D-C1D-ND	2.74	112.13	110.10
30	1n	609	CHL	CMD-C2D-C3D	-2.74	121.31	127.61
29	1b	615	CLA	CHB-C1B-NB	-2.74	121.35	124.26
29	1C	503	CLA	CMC-C2C-C1C	2.74	129.21	125.04
29	1r	314	CLA	C1D-CHD-C4C	-2.74	120.14	126.06
29	1N	305	CLA	CHB-C1B-NB	-2.74	121.36	124.26
29	1B	605	CLA	C1-C2-C3	-2.74	121.30	126.04
29	1g	614	CLA	C2D-C1D-ND	2.74	112.12	110.10
30	1n	601	CHL	CHB-C1B-NB	-2.74	121.36	124.26
38	1d	404	PHO	C2B-C1B-NB	-2.74	107.63	109.53
35	1Z	101	BCR	C12-C13-C14	2.74	123.14	118.94
30	1n	601	CHL	CMB-C2B-C1B	2.74	129.54	125.37
29	07	301	CLA	CAA-C2A-C3A	-2.74	109.71	116.10
31	1G	616	LUT	C20-C13-C14	-2.74	119.09	122.92
29	1G	613	CLA	CMB-C2B-C1B	2.74	129.54	125.37
29	1s	307	CLA	C2D-C1D-ND	2.74	112.12	110.10
29	1b	609	CLA	C4-C3-C5	2.74	119.88	115.27
30	1N	306	CHL	C1C-C2C-C3C	-2.74	104.94	107.11
29	1B	615	CLA	CAC-C3C-C4C	2.74	128.36	124.81
29	1S	314	CLA	CMB-C2B-C1B	2.74	129.54	125.37
30	04	305	CHL	CMD-C2D-C3D	-2.74	121.32	127.61
40	1d	410	PL9	C7-C3-C4	2.74	119.10	116.88
30	07	304	CHL	C1C-C2C-C3C	-2.74	104.94	107.11
30	1s	310	CHL	CMD-C2D-C3D	-2.73	121.33	127.61
29	02	613	CLA	CAC-C3C-C4C	2.73	128.36	124.81
40	1a	412	PL9	C42-C43-C44	-2.73	121.08	127.66
30	1g	606	CHL	O2A-CGA-CBA	2.73	120.48	111.91
29	1R	310	CLA	O2A-CGA-CBA	2.73	120.48	111.91
29	00	310	CLA	CMB-C2B-C1B	2.73	129.53	125.37
35	1k	102	BCR	C11-C10-C9	2.73	131.21	127.31
31	1N	316	LUT	C20-C13-C14	-2.73	119.10	122.92
30	07	303	CHL	CMD-C2D-C3D	-2.73	121.33	127.61
30	1R	304	CHL	CMD-C2D-C3D	-2.73	121.33	127.61
46	1G	617	XAT	O4-C5-C4	2.73	115.43	113.38
29	01	310	CLA	C2D-C1D-ND	2.73	112.12	110.10
30	01	304	CHL	CMD-C2D-C3D	-2.73	121.33	127.61
29	03	310	CLA	CHC-C4B-NB	-2.73	121.37	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1N	310	CHL	CHB-C1B-NB	-2.73	121.37	124.26
34	1B	626	DGD	C1E-O6E-C5E	2.73	119.05	113.69
31	09	313	LUT	C8-C9-C10	2.73	123.13	118.94
31	09	313	LUT	C40-C33-C34	-2.73	119.10	122.92
46	1G	619	XAT	C31-C32-C33	-2.73	118.75	126.42
29	1s	307	CLA	CMD-C2D-C3D	-2.73	121.34	127.61
29	1N	305	CLA	C2D-C1D-ND	2.73	112.11	110.10
29	03	312	CLA	CMB-C2B-C1B	2.73	129.52	125.37
29	1B	606	CLA	CMD-C2D-C3D	-2.73	121.34	127.61
29	1r	304	CLA	CMC-C2C-C1C	2.73	129.19	125.04
30	00	305	CHL	CHB-C4A-NA	2.73	128.28	124.51
30	1n	608	CHL	C1C-C2C-C3C	-2.73	104.95	107.11
29	01	310	CLA	CMB-C2B-C1B	2.73	129.52	125.37
29	1d	406	CLA	C1-C2-C3	-2.73	121.33	126.04
29	1b	613	CLA	CMD-C2D-C3D	-2.73	121.34	127.61
29	07	302	CLA	CMB-C2B-C1B	2.73	129.52	125.37
30	05	313	CHL	CMD-C2D-C3D	-2.73	121.34	127.61
29	04	308	CLA	CMC-C2C-C1C	2.73	129.19	125.04
29	1n	611	CLA	CMB-C2B-C1B	2.72	129.52	125.37
30	02	601	CHL	CMD-C2D-C3D	-2.72	121.35	127.61
30	02	604	CHL	C1C-C2C-C3C	-2.72	104.95	107.11
29	01	301	CLA	CHB-C1B-NB	-2.72	121.37	124.26
30	00	307	CHL	CMB-C2B-C1B	2.72	129.52	125.37
29	1B	608	CLA	C4-C3-C5	2.72	119.85	115.27
30	1n	605	CHL	C1C-C2C-C3C	-2.72	104.95	107.11
29	1B	606	CLA	C1-C2-C3	-2.72	121.33	126.04
29	1C	503	CLA	CMB-C2B-C1B	2.72	129.51	125.37
29	09	312	CLA	C2D-C1D-ND	2.72	112.11	110.10
29	05	312	CLA	CAC-C3C-C4C	2.72	128.34	124.81
29	1g	603	CLA	CHC-C4B-NB	-2.72	121.38	124.26
29	1b	615	CLA	C4-C3-C5	2.72	119.85	115.27
30	00	306	CHL	C1-C2-C3	-2.72	121.34	126.04
30	03	305	CHL	C1C-C2C-C3C	-2.72	104.96	107.11
30	03	311	CHL	C1C-C2C-C3C	-2.72	104.96	107.11
30	05	315	CHL	C1C-C2C-C3C	-2.72	104.96	107.11
29	1c	514	CLA	CHB-C4A-NA	2.72	128.27	124.51
34	1c	518	DGD	C2G-O2G-C1B	-2.72	111.10	117.79
35	1h	101	BCR	C23-C22-C21	2.72	123.11	118.94
29	08	309	CLA	CAA-C2A-C3A	-2.72	109.76	116.10
29	01	312	CLA	O2D-CGD-O1D	-2.72	118.53	123.84
29	08	311	CLA	CMB-C2B-C1B	2.72	129.51	125.37
29	1c	503	CLA	C1-C2-C3	-2.72	121.35	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	04	304	CHL	CMD-C2D-C3D	-2.72	121.37	127.61
29	1D	404	CLA	CHB-C4A-NA	2.72	128.27	124.51
29	09	310	CLA	CMB-C2B-C1B	2.71	129.50	125.37
29	1g	612	CLA	CMD-C2D-C3D	-2.71	121.37	127.61
30	1S	308	CHL	C1C-C2C-C3C	-2.71	104.96	107.11
30	1r	307	CHL	CMD-C2D-C3D	-2.71	121.37	127.61
30	06	603	CHL	C3A-C4A-CHB	-2.71	116.87	124.01
29	1r	314	CLA	CMB-C2B-C1B	2.71	129.50	125.37
30	1s	308	CHL	O2D-CGD-O1D	-2.71	118.54	123.84
30	1n	608	CHL	CMD-C2D-C3D	-2.71	121.38	127.61
29	1R	302	CLA	CHB-C1B-NB	-2.71	121.39	124.26
29	1s	307	CLA	CHC-C4B-NB	-2.71	121.39	124.26
29	05	303	CLA	C2D-C1D-ND	2.71	112.10	110.10
29	1S	313	CLA	CMC-C2C-C1C	2.71	129.16	125.04
29	1N	312	CLA	CAA-C2A-C3A	-2.71	109.78	116.10
29	1s	313	CLA	CAA-C2A-C3A	-2.71	109.78	116.10
29	1c	512	CLA	C4A-NA-C1A	2.71	107.92	106.71
29	09	302	CLA	CHC-C4B-NB	-2.71	121.39	124.26
29	06	611	CLA	CMB-C2B-C1B	2.71	129.50	125.37
29	1b	614	CLA	CHD-C1D-ND	-2.71	121.97	124.45
35	1b	618	BCR	C16-C15-C14	2.71	129.02	123.47
31	1R	315	LUT	C12-C13-C14	2.71	123.09	118.94
29	07	309	CLA	CMB-C2B-C1B	2.71	129.49	125.37
30	1G	605	CHL	CMD-C2D-C3D	-2.71	121.39	127.61
30	05	304	CHL	C2D-C1D-ND	2.71	112.10	110.10
29	1N	303	CLA	C1-C2-C3	-2.71	121.36	126.04
30	00	308	CHL	CMD-C2D-C3D	-2.70	121.39	127.61
29	1n	611	CLA	C2D-C1D-ND	2.70	112.10	110.10
29	1b	609	CLA	O2A-CGA-CBA	2.70	120.39	111.91
30	1g	608	CHL	C1C-C2C-C3C	-2.70	104.97	107.11
31	01	314	LUT	C1-C6-C5	-2.70	118.81	122.61
29	06	607	CLA	CMA-C3A-C2A	-2.70	109.79	116.10
29	1r	314	CLA	CAC-C3C-C4C	2.70	128.32	124.81
29	1B	612	CLA	O2A-CGA-CBA	2.70	120.39	111.91
29	1c	503	CLA	O2A-CGA-CBA	2.70	120.39	111.91
29	1b	603	CLA	CMD-C2D-C3D	-2.70	121.40	127.61
29	01	311	CLA	C4A-NA-C1A	2.70	107.92	106.71
29	04	308	CLA	CHC-C4B-NB	-2.70	121.40	124.26
30	08	305	CHL	CMD-C2D-C3D	-2.70	121.40	127.61
31	05	314	LUT	C20-C13-C14	-2.70	119.14	122.92
30	1R	305	CHL	C1C-C2C-C3C	-2.70	104.97	107.11
40	1e	101	PL9	C12-C13-C14	-2.70	121.16	127.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1J	101	BCR	C16-C17-C18	2.70	131.16	127.31
35	1b	620	BCR	C30-C25-C26	-2.70	118.81	122.61
31	1S	317	LUT	C40-C33-C34	-2.70	119.14	122.92
29	1b	607	CLA	CMA-C3A-C4A	-2.70	104.52	111.77
29	1B	607	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
29	06	609	CLA	CMC-C2C-C1C	2.70	129.15	125.04
35	1D	406	BCR	C15-C16-C17	2.70	129.00	123.47
29	1C	512	CLA	CMB-C2B-C1B	2.70	129.48	125.37
29	1A	404	CLA	C4-C3-C5	2.70	119.81	115.27
35	1i	101	BCR	C12-C13-C14	2.70	123.08	118.94
29	00	318	CLA	O2A-CGA-CBA	2.70	120.37	111.91
29	08	312	CLA	CHC-C4B-NB	-2.70	121.40	124.26
30	02	606	CHL	CMD-C2D-C3D	-2.70	121.41	127.61
29	1r	302	CLA	CHB-C1B-NB	-2.69	121.40	124.26
30	1N	307	CHL	C1C-C2C-C3C	-2.69	104.98	107.11
29	02	602	CLA	CMB-C2B-C1B	2.69	129.47	125.37
30	08	301	CHL	CHB-C1B-NB	-2.69	121.41	124.26
31	1S	317	LUT	C15-C35-C34	2.69	128.99	123.47
29	1B	608	CLA	C4A-NA-C1A	2.69	107.92	106.71
29	1R	307	CLA	CHC-C1C-C2C	-2.69	119.25	126.73
29	1s	315	CLA	CHC-C4B-NB	-2.69	121.41	124.26
34	1C	516	DGD	C2G-O2G-C1B	-2.69	111.16	117.79
29	1N	314	CLA	C6-C5-C3	-2.69	110.22	114.62
34	1B	627	DGD	O1G-C1A-C2A	2.69	120.35	111.91
30	1g	601	CHL	C2A-C1A-CHA	-2.69	119.16	123.86
29	02	610	CLA	CMB-C2B-C1B	2.69	129.47	125.37
29	1g	604	CLA	O2A-CGA-CBA	2.69	120.35	111.91
30	05	313	CHL	C1C-C2C-C3C	-2.69	104.98	107.11
40	1e	101	PL9	C53-C6-C1	2.69	120.49	114.99
30	1S	308	CHL	C4D-CHA-C1A	-2.69	117.98	121.25
29	05	312	CLA	CMC-C2C-C1C	2.69	129.13	125.04
29	06	611	CLA	CAA-C2A-C3A	-2.69	109.83	116.10
29	1C	511	CLA	O1D-CGD-CBD	-2.69	118.99	124.48
29	00	303	CLA	CHC-C4B-NB	-2.69	121.41	124.26
31	1S	318	LUT	C32-C33-C34	2.69	123.06	118.94
35	1d	409	BCR	C19-C18-C17	2.69	123.06	118.94
30	1R	313	CHL	C1C-C2C-C3C	-2.69	104.98	107.11
29	03	310	CLA	CAA-C2A-C3A	-2.69	105.42	112.78
29	1g	603	CLA	CMD-C2D-C3D	-2.68	121.44	127.61
29	1d	407	CLA	CMB-C2B-C1B	2.68	129.46	125.37
30	1G	607	CHL	C4-C3-C5	2.68	119.79	115.27
30	1s	310	CHL	C1C-C2C-C3C	-2.68	104.98	107.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	508	CLA	O2A-CGA-CBA	2.68	120.33	111.91
40	1a	412	PL9	C53-C6-C1	2.68	120.48	114.99
29	1G	612	CLA	C1-C2-C3	-2.68	121.40	126.04
30	1s	309	CHL	CMD-C2D-C3D	-2.68	121.44	127.61
30	05	307	CHL	CHB-C1B-NB	-2.68	121.42	124.26
29	1c	514	CLA	O2D-CGD-O1D	-2.68	118.60	123.84
30	1n	607	CHL	O2A-CGA-CBA	2.68	120.32	111.91
35	1J	101	BCR	C33-C5-C6	2.68	127.54	124.53
30	00	304	CHL	C1C-C2C-C3C	-2.68	104.99	107.11
29	02	602	CLA	CMD-C2D-C3D	-2.68	121.45	127.61
46	1g	617	XAT	C26-C27-C28	-2.68	120.33	125.99
29	1b	611	CLA	O2A-CGA-CBA	2.68	120.31	111.91
29	1s	315	CLA	O2A-CGA-CBA	2.68	120.31	111.91
29	01	312	CLA	CAC-C3C-C4C	2.68	128.29	124.81
29	01	312	CLA	C2D-C1D-ND	2.68	112.08	110.10
29	1B	602	CLA	CHB-C4A-NA	2.68	128.22	124.51
35	1D	406	BCR	C24-C25-C26	2.68	127.95	121.46
29	1B	606	CLA	O2A-CGA-CBA	2.68	120.31	111.91
29	1S	313	CLA	C4A-NA-C1A	2.68	107.91	106.71
29	1R	306	CLA	C4C-C3C-C2C	-2.68	102.99	106.90
29	1g	604	CLA	CMB-C2B-C1B	2.68	129.45	125.37
30	1g	608	CHL	CMB-C2B-C1B	2.68	129.45	125.37
46	1g	619	XAT	C18-C5-C4	2.68	117.29	114.28
29	1B	606	CLA	C3D-C2D-C1D	-2.68	102.18	105.83
29	05	303	CLA	CHB-C1B-NB	-2.68	121.42	124.26
35	1h	101	BCR	C12-C13-C14	2.68	123.05	118.94
46	1R	316	XAT	C12-C13-C14	2.68	123.05	118.94
29	1C	502	CLA	O2D-CGD-O1D	-2.68	118.61	123.84
29	09	309	CLA	CHC-C4B-NB	-2.68	121.42	124.26
30	1R	313	CHL	CHB-C1B-NB	-2.68	121.42	124.26
31	09	314	LUT	C40-C33-C34	-2.67	119.18	122.92
29	1C	510	CLA	C2D-C1D-ND	2.67	112.08	110.10
29	1r	310	CLA	CMD-C2D-C3D	-2.67	121.46	127.61
29	05	310	CLA	C4A-NA-C1A	2.67	107.91	106.71
29	1c	510	CLA	CMB-C2B-C3B	2.67	133.06	126.59
29	1b	602	CLA	C2D-C1D-ND	2.67	112.07	110.10
29	01	311	CLA	O2D-CGD-O1D	-2.67	118.61	123.84
29	08	308	CLA	CMD-C2D-C3D	-2.67	121.47	127.61
34	1S	320	DGD	O6D-C1D-C2D	2.67	116.01	110.35
29	1s	306	CLA	C4C-C3C-C2C	-2.67	103.00	106.90
29	1S	312	CLA	CMB-C2B-C1B	2.67	129.44	125.37
31	05	314	LUT	C7-C8-C9	2.67	130.27	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	606	CLA	O2A-CGA-CBA	2.67	120.29	111.91
29	09	303	CLA	CHC-C4B-NB	-2.67	121.43	124.26
30	05	307	CHL	CMD-C2D-C3D	-2.67	121.47	127.61
29	1S	313	CLA	C1-C2-C3	-2.67	121.43	126.04
30	1g	606	CHL	CMD-C2D-C3D	-2.67	121.47	127.61
29	1R	311	CLA	CAC-C3C-C4C	2.67	128.27	124.81
29	01	310	CLA	O2A-CGA-CBA	2.67	120.28	111.91
29	1r	302	CLA	CHB-C4A-NA	2.67	128.20	124.51
30	09	307	CHL	CMD-C2D-C3D	-2.67	121.48	127.61
29	1N	303	CLA	C3B-C4B-NB	2.67	112.99	110.52
35	1k	102	BCR	C19-C18-C17	2.67	123.03	118.94
29	1B	615	CLA	CMC-C2C-C1C	2.67	129.10	125.04
29	1R	308	CLA	CMB-C2B-C3B	2.66	133.04	126.59
34	1B	626	DGD	O5D-C6D-C5D	2.66	113.98	109.05
30	06	603	CHL	C2A-C1A-CHA	-2.66	118.59	122.71
29	1c	507	CLA	C3D-C2D-C1D	-2.66	102.20	105.83
30	01	305	CHL	C1C-C2C-C3C	-2.66	105.00	107.11
30	1g	607	CHL	C1C-C2C-C3C	-2.66	105.00	107.11
30	04	303	CHL	CMB-C2B-C1B	2.66	129.42	125.37
30	05	307	CHL	CMB-C2B-C1B	2.66	129.42	125.37
35	1b	620	BCR	C24-C23-C22	-2.66	122.21	126.23
40	1E	102	PL9	C53-C6-C1	2.66	120.43	114.99
29	1n	610	CLA	CMD-C2D-C3D	-2.66	121.49	127.61
30	04	302	CHL	C2A-C1A-CHA	-2.66	118.59	122.71
35	1b	618	BCR	C24-C25-C26	2.66	127.91	121.46
29	01	307	CLA	CHC-C4B-NB	-2.66	121.44	124.26
29	1N	312	CLA	C2D-C1D-ND	2.66	112.06	110.10
29	1N	311	CLA	CMA-C3A-C2A	-2.66	109.89	116.10
30	03	304	CHL	CMD-C2D-C3D	-2.66	121.50	127.61
29	1C	511	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
35	1a	409	BCR	C38-C26-C25	2.66	127.51	124.53
30	07	306	CHL	C1C-C2C-C3C	-2.66	105.00	107.11
29	1r	312	CLA	CAC-C3C-C4C	2.66	128.26	124.81
29	1n	610	CLA	C4D-CHA-C1A	-2.66	118.02	121.25
29	1G	604	CLA	C2D-C1D-ND	2.66	112.06	110.10
29	1A	404	CLA	C1C-C2C-C3C	-2.66	104.16	106.96
29	1B	605	CLA	CHB-C1B-NB	-2.66	121.44	124.26
29	1n	611	CLA	CMC-C2C-C1C	2.65	129.08	125.04
29	07	302	CLA	C4D-C3D-CAD	2.65	111.22	108.10
46	1g	619	XAT	O4-C5-C4	2.65	115.38	113.38
29	06	608	CLA	CAA-C2A-C3A	-2.65	109.91	116.10
29	01	308	CLA	CHC-C4B-NB	-2.65	121.45	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	06	603	CHL	CBD-CHA-C1A	2.65	131.63	128.50
29	1g	602	CLA	CMD-C2D-C3D	-2.65	121.51	127.61
29	01	301	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
29	07	302	CLA	CMC-C2C-C1C	2.65	129.08	125.04
29	1B	603	CLA	C1-C2-C3	-2.65	121.45	126.04
31	01	315	LUT	C10-C11-C12	-2.65	114.94	123.22
29	1c	512	CLA	CMC-C2C-C1C	2.65	129.08	125.04
29	1C	501	CLA	CHB-C1B-NB	-2.65	121.45	124.26
29	1s	316	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
45	1E	103	HEM	C4C-CHD-C1D	-2.65	120.34	126.06
29	04	314	CLA	CMB-C2B-C1B	2.65	129.41	125.37
35	1B	617	BCR	C24-C25-C26	2.65	127.88	121.46
30	1r	313	CHL	CMD-C2D-C3D	-2.65	121.52	127.61
31	1g	615	LUT	C12-C13-C14	2.65	123.00	118.94
29	1b	615	CLA	CMC-C2C-C1C	2.65	129.07	125.04
29	06	607	CLA	CMB-C2B-C1B	2.65	129.40	125.37
41	1D	411	SQD	O5-C1-O6	-2.65	103.70	109.97
29	07	309	CLA	CMC-C2C-C1C	2.65	129.07	125.04
29	1c	514	CLA	O2A-CGA-CBA	2.65	120.21	111.91
29	04	310	CLA	C2D-C1D-ND	2.65	112.05	110.10
46	1R	316	XAT	C19-C9-C10	-2.65	119.22	122.92
29	1c	510	CLA	CHB-C1B-NB	-2.64	121.46	124.26
29	1G	612	CLA	CMC-C2C-C1C	2.64	129.07	125.04
29	1b	609	CLA	C3D-C2D-C1D	-2.64	102.22	105.83
29	1C	507	CLA	C2D-C1D-ND	2.64	112.05	110.10
29	1g	612	CLA	CMB-C2B-C1B	2.64	129.39	125.37
31	01	314	LUT	C40-C33-C34	-2.64	119.22	122.92
29	1a	408	CLA	C3B-C4B-NB	2.64	112.97	110.52
29	1c	504	CLA	O2D-CGD-O1D	-2.64	118.68	123.84
30	04	303	CHL	CMD-C2D-C3D	-2.64	121.54	127.61
29	04	312	CLA	CAA-C2A-C3A	-2.64	109.94	116.10
29	00	312	CLA	CBC-CAC-C3C	-2.64	105.16	112.43
29	1B	603	CLA	CHB-C4A-NA	2.64	128.16	124.51
46	1G	619	XAT	C4-C3-C2	-2.64	105.68	110.77
29	07	302	CLA	C3B-C4B-NB	2.64	112.96	110.52
29	00	310	CLA	O2A-CGA-CBA	2.64	120.18	111.91
29	1a	405	CLA	CHB-C4A-NA	2.64	128.16	124.51
46	1g	619	XAT	C19-C9-C8	2.64	122.23	118.08
29	01	307	CLA	C4-C3-C5	2.64	119.70	115.27
35	1j	101	BCR	C36-C18-C17	-2.64	119.23	122.92
30	1G	609	CHL	CMD-C2D-C3D	-2.63	121.55	127.61
29	09	311	CLA	CMB-C2B-C1B	2.63	129.38	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1G	614	CLA	CMC-C2C-C1C	2.63	129.05	125.04
30	06	604	CHL	C1C-C2C-C3C	-2.63	105.02	107.11
46	1G	617	XAT	C40-C33-C34	-2.63	119.23	122.92
35	1a	409	BCR	C33-C5-C6	2.63	127.48	124.53
29	1d	406	CLA	CBC-CAC-C3C	-2.63	105.17	112.43
29	1N	304	CLA	CMC-C2C-C1C	2.63	129.05	125.04
29	1b	613	CLA	C3D-C2D-C1D	-2.63	102.24	105.83
29	1C	504	CLA	CMD-C2D-C3D	-2.63	121.56	127.61
29	01	308	CLA	C4-C3-C5	2.63	119.70	115.27
29	1d	407	CLA	C4-C3-C5	2.63	119.70	115.27
29	1B	615	CLA	CAA-C2A-C3A	-2.63	109.96	116.10
35	1b	618	BCR	C36-C18-C17	-2.63	119.24	122.92
29	03	301	CLA	C2A-C1A-CHA	-2.63	119.26	123.86
30	1G	606	CHL	O2D-CGD-O1D	-2.63	118.70	123.84
29	1R	309	CLA	CMB-C2B-C1B	2.63	129.37	125.37
29	08	311	CLA	CAC-C3C-C4C	2.63	128.22	124.81
30	06	605	CHL	C1C-C2C-C3C	-2.63	105.03	107.11
35	1I	102	BCR	C36-C18-C17	-2.63	119.24	122.92
30	1S	309	CHL	OMC-CMC-C2C	-2.63	119.75	125.69
29	01	308	CLA	O2A-CGA-CBA	2.63	120.15	111.91
29	1a	408	CLA	O2D-CGD-O1D	-2.63	118.70	123.84
41	1D	411	SQD	O2-C2-C3	-2.63	104.28	110.35
40	1a	412	PL9	C12-C13-C14	-2.63	121.34	127.66
29	1a	405	CLA	C4-C3-C5	2.63	119.69	115.27
35	1k	102	BCR	C38-C26-C25	2.63	127.48	124.53
29	1B	609	CLA	CHB-C4A-NA	2.63	128.14	124.51
30	1G	609	CHL	C2A-C1A-CHA	-2.63	119.27	123.85
29	01	311	CLA	CMB-C2B-C1B	2.63	129.37	125.37
29	00	310	CLA	CMC-C2C-C1C	2.63	129.04	125.04
30	1r	307	CHL	C1C-C2C-C3C	-2.62	105.03	107.11
29	1C	504	CLA	C2A-C1A-CHA	-2.62	119.27	123.86
29	08	312	CLA	C2D-C1D-ND	2.62	112.04	110.10
29	1C	501	CLA	C2D-C1D-ND	2.62	112.04	110.10
31	1g	616	LUT	C1-C6-C5	-2.62	118.92	122.61
46	1g	619	XAT	C28-C29-C30	2.62	122.97	118.94
29	1C	502	CLA	O2A-CGA-CBA	2.62	120.14	111.91
31	1S	318	LUT	C1-C6-C5	-2.62	118.92	122.61
29	1c	506	CLA	C1-C2-C3	-2.62	121.51	126.04
29	1N	312	CLA	O2D-CGD-O1D	-2.62	118.14	124.09
29	1B	604	CLA	C4-C3-C5	2.62	119.68	115.27
30	08	301	CHL	CMB-C2B-C1B	2.62	129.36	125.37
29	1b	616	CLA	O2D-CGD-O1D	-2.62	118.72	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	1a	413	LHG	O8-C23-C24	2.62	120.13	111.91
30	01	304	CHL	CHC-C4B-NB	-2.62	121.48	124.26
29	1c	510	CLA	CHD-C1D-ND	-2.62	122.05	124.45
34	1A	414	DGD	O1G-C1A-C2A	2.62	120.12	111.91
31	05	314	LUT	C32-C33-C34	2.62	122.96	118.94
29	1R	308	CLA	CHB-C4A-NA	2.62	128.13	124.51
29	1B	601	CLA	C3B-C4B-NB	2.62	112.94	110.52
29	01	311	CLA	CMD-C2D-C3D	-2.62	121.59	127.61
30	01	303	CHL	CMD-C2D-C3D	-2.62	121.59	127.61
29	1b	616	CLA	C4-C3-C5	2.62	119.67	115.27
31	1r	315	LUT	C31-C30-C29	2.62	131.04	127.31
29	07	302	CLA	CMD-C2D-C3D	-2.62	121.60	127.61
29	1b	614	CLA	C1-C2-C3	-2.62	121.52	126.04
29	1d	407	CLA	C1-C2-C3	-2.62	121.52	126.04
29	09	302	CLA	CMB-C2B-C1B	2.62	129.35	125.37
29	1G	612	CLA	C2D-C1D-ND	2.61	112.03	110.10
30	09	304	CHL	C4D-CHA-C1A	-2.61	118.07	121.25
29	00	302	CLA	CMB-C2B-C1B	2.61	129.35	125.37
30	1r	313	CHL	CMB-C2B-C1B	2.61	129.35	125.37
29	1n	603	CLA	C2D-C1D-ND	2.61	112.03	110.10
29	1c	505	CLA	CMC-C2C-C1C	2.61	129.02	125.04
29	1B	609	CLA	C1-C2-C3	-2.61	121.52	126.04
29	1C	505	CLA	CMB-C2B-C1B	2.61	129.35	125.37
40	1E	102	PL9	C22-C23-C24	-2.61	121.37	127.66
29	1B	614	CLA	CHC-C1C-NC	2.61	128.17	124.20
29	1a	405	CLA	CMD-C2D-C3D	-2.61	121.61	127.61
29	03	301	CLA	C4-C3-C5	2.61	119.66	115.27
29	1c	512	CLA	O2A-CGA-CBA	2.61	120.10	111.91
29	00	301	CLA	CMB-C2B-C1B	2.61	129.34	125.37
29	1S	311	CLA	CMC-C2C-C1C	2.61	129.01	125.04
29	1C	512	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
29	09	310	CLA	CAA-C2A-C3A	-2.61	110.01	116.10
29	08	306	CLA	CMC-C2C-C1C	2.61	129.01	125.04
29	1C	503	CLA	O2A-CGA-CBA	2.61	120.09	111.91
30	09	306	CHL	CAA-C2A-C3A	-2.61	107.75	114.26
30	08	303	CHL	C1C-C2C-C3C	-2.61	105.05	107.11
29	1b	606	CLA	CHB-C4A-NA	2.61	128.12	124.51
29	1c	514	CLA	C4-C3-C5	2.61	119.65	115.27
29	1s	315	CLA	C4-C3-C5	2.60	119.65	115.27
29	1b	613	CLA	CAA-C2A-C3A	-2.60	105.65	112.78
46	1R	316	XAT	C24-C23-C22	-2.60	105.75	110.77
29	00	309	CLA	C3B-C4B-NB	2.60	112.93	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	312	CLA	C4C-C3C-C2C	-2.60	103.10	106.90
30	1r	313	CHL	C1C-C2C-C3C	-2.60	105.05	107.11
35	1A	409	BCR	C33-C5-C6	2.60	127.45	124.53
35	1Z	102	BCR	C19-C18-C17	2.60	122.93	118.94
30	1G	607	CHL	C2A-C1A-CHA	-2.60	119.31	123.86
29	1B	608	CLA	CMB-C2B-C3B	2.60	132.88	126.59
29	1c	503	CLA	CHB-C1B-NB	-2.60	121.51	124.26
30	1n	606	CHL	C1C-C2C-C3C	-2.60	105.05	107.11
29	1s	312	CLA	C2D-C1D-ND	2.60	112.02	110.10
29	1c	506	CLA	C2A-C1A-CHA	-2.60	119.32	123.86
30	1N	307	CHL	CMD-C2D-C3D	-2.59	121.65	127.61
41	1D	412	SQD	C1-O5-C5	2.59	118.78	113.69
35	1B	619	BCR	C15-C16-C17	2.59	128.79	123.47
40	1E	102	PL9	C32-C33-C34	-2.59	121.42	127.66
29	05	311	CLA	C4A-NA-C1A	2.59	107.87	106.71
29	1b	605	CLA	C4A-NA-C1A	2.59	107.87	106.71
29	1C	510	CLA	C4A-NA-C1A	2.59	107.87	106.71
30	1G	605	CHL	C1C-C2C-C3C	-2.59	105.06	107.11
29	1C	513	CLA	CMC-C2C-C1C	2.59	128.98	125.04
29	03	310	CLA	C2D-C1D-ND	2.59	112.01	110.10
40	1a	412	PL9	C32-C33-C34	-2.59	121.42	127.66
29	1B	609	CLA	CMD-C2D-C3D	-2.59	121.66	127.61
30	00	306	CHL	C4-C3-C5	2.59	119.63	115.27
29	1B	613	CLA	C4-C3-C5	2.59	119.63	115.27
29	1c	504	CLA	O2A-CGA-CBA	2.59	120.03	111.91
29	1c	505	CLA	O2A-CGA-CBA	2.59	120.03	111.91
29	02	608	CLA	CMD-C2D-C3D	-2.59	121.66	127.61
29	1D	404	CLA	C1D-CHD-C4C	-2.59	120.48	126.06
40	1r	301	PL9	C41-C42-C43	-2.59	103.38	111.88
40	1E	102	PL9	C51-C49-C50	2.59	120.31	114.60
29	1g	602	CLA	CHC-C1C-C2C	-2.59	119.55	126.73
29	04	314	CLA	CMA-C3A-C2A	-2.58	110.07	116.10
29	1G	610	CLA	C3B-C4B-NB	2.58	112.91	110.52
29	1C	506	CLA	O2A-CGA-CBA	2.58	120.02	111.91
29	1n	612	CLA	CMD-C2D-C3D	-2.58	121.67	127.61
30	1n	601	CHL	CED-O2D-CGD	2.58	121.78	115.94
29	1R	302	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
29	09	303	CLA	CHB-C1B-NB	-2.58	121.52	124.26
34	1B	625	DGD	O1G-C1A-C2A	2.58	120.01	111.91
29	05	302	CLA	O2A-CGA-CBA	2.58	122.32	114.03
30	09	307	CHL	C1C-C2C-C3C	-2.58	105.07	107.11
35	1H	101	BCR	C23-C22-C21	2.58	122.90	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1c	515	CLA	CAA-C2A-C3A	-2.58	105.71	112.78
30	1s	310	CHL	CAA-C2A-C3A	-2.58	107.81	114.26
29	1c	510	CLA	C1-C2-C3	-2.58	121.58	126.04
34	1c	520	DGD	O1G-C1A-C2A	2.58	120.00	111.91
29	1g	611	CLA	CMC-C2C-C1C	2.58	128.97	125.04
29	1S	305	CLA	CAA-C2A-C3A	-2.58	110.08	116.10
29	03	309	CLA	CMB-C2B-C1B	2.58	129.30	125.37
29	1C	511	CLA	C3B-C4B-NB	2.58	112.91	110.52
29	05	308	CLA	CMB-C2B-C1B	2.58	129.29	125.37
34	1B	626	DGD	C6D-O5D-C1E	-2.58	108.70	113.74
30	1S	304	CHL	CHB-C1B-NB	-2.58	121.53	124.26
29	01	310	CLA	C4-C3-C5	2.58	119.60	115.27
30	07	311	CHL	CMD-C2D-C3D	-2.58	121.69	127.61
29	09	302	CLA	C1-C2-C3	-2.58	121.59	126.04
29	01	309	CLA	C2A-C1A-CHA	-2.58	119.36	123.86
29	1S	314	CLA	CMA-C3A-C2A	-2.58	110.09	116.10
29	1g	603	CLA	CBC-CAC-C3C	-2.58	105.33	112.43
29	1S	306	CLA	CMC-C2C-C1C	2.57	128.96	125.04
29	05	310	CLA	CMD-C2D-C3D	-2.57	121.69	127.61
29	1B	606	CLA	CAC-C3C-C4C	2.57	128.15	124.81
31	01	314	LUT	C12-C13-C14	2.57	122.89	118.94
29	1b	613	CLA	C2D-C1D-ND	2.57	112.00	110.10
30	1N	309	CHL	CHB-C1B-NB	-2.57	121.53	124.26
29	07	309	CLA	C2D-C1D-ND	2.57	112.00	110.10
35	1k	102	BCR	C35-C13-C14	-2.57	119.32	122.92
29	03	301	CLA	O2A-CGA-CBA	2.57	119.98	111.91
29	05	303	CLA	C2A-C1A-CHA	-2.57	119.36	123.86
29	1b	615	CLA	C2A-C1A-CHA	-2.57	119.36	123.86
29	1G	603	CLA	C3B-C4B-NB	2.57	112.90	110.52
29	1C	501	CLA	O2D-CGD-O1D	-2.57	118.81	123.84
30	06	603	CHL	C1C-C2C-C3C	-2.57	105.07	107.11
29	1r	304	CLA	C3B-C4B-NB	2.57	112.90	110.52
30	1N	302	CHL	O2A-CGA-CBA	2.57	119.97	111.91
29	1b	602	CLA	O2A-CGA-CBA	2.57	119.97	111.91
35	1B	618	BCR	C33-C5-C6	2.57	127.41	124.53
29	1N	305	CLA	CAA-C2A-C3A	-2.57	110.10	116.10
29	07	312	CLA	CMC-C2C-C1C	2.57	128.95	125.04
29	05	301	CLA	C3B-C4B-NB	2.57	112.90	110.52
29	1s	316	CLA	C1D-CHD-C4C	-2.57	120.52	126.06
29	1C	509	CLA	O2A-CGA-CBA	2.57	119.97	111.91
30	05	305	CHL	CMD-C2D-C3D	-2.57	121.71	127.61
29	1B	612	CLA	C1-C2-C3	-2.57	121.60	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1A	404	CLA	C3B-C4B-NB	2.57	112.90	110.52
29	05	312	CLA	C4C-C3C-C2C	-2.57	103.16	106.90
29	00	301	CLA	CHB-C1B-NB	-2.57	121.54	124.26
30	1g	606	CHL	CHB-C1B-NB	-2.57	121.54	124.26
29	08	312	CLA	CMB-C2B-C1B	2.57	129.28	125.37
29	1b	613	CLA	CMB-C2B-C1B	2.57	129.28	125.37
30	06	606	CHL	CMD-C2D-C3D	-2.57	121.71	127.61
29	1b	615	CLA	O2A-CGA-CBA	2.57	119.96	111.91
30	1n	609	CHL	C1-O2A-CGA	2.57	123.17	116.44
29	07	312	CLA	CMB-C2B-C1B	2.57	129.28	125.37
30	1g	605	CHL	O2D-CGD-O1D	-2.57	118.82	123.84
29	03	310	CLA	CMD-C2D-C3D	-2.56	121.72	127.61
29	1s	312	CLA	C4-C3-C5	2.56	119.58	115.27
29	00	309	CLA	CHB-C1B-NB	-2.56	121.54	124.26
29	1A	407	CLA	O2D-CGD-O1D	-2.56	118.83	123.84
29	03	310	CLA	O2D-CGD-O1D	-2.56	118.83	123.84
30	1g	609	CHL	C4-C3-C5	2.56	119.58	115.27
46	1r	316	XAT	C19-C9-C10	-2.56	119.34	122.92
29	04	314	CLA	CAA-C2A-C3A	-2.56	110.12	116.10
29	1G	604	CLA	CHC-C4B-NB	-2.56	121.55	124.26
29	1a	408	CLA	CHB-C1B-NB	-2.56	121.55	124.26
29	1N	311	CLA	CAA-C2A-C3A	-2.56	110.12	116.10
30	1r	306	CHL	CMD-C2D-C3D	-2.56	121.73	127.61
29	05	311	CLA	CMB-C2B-C1B	2.56	129.27	125.37
29	1b	613	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
29	1C	513	CLA	C3B-C4B-NB	2.56	112.89	110.52
29	1B	616	CLA	O1D-CGD-CBD	-2.56	119.25	124.48
34	1C	518	DGD	O1G-C1A-C2A	2.56	119.93	111.91
29	1c	506	CLA	CMC-C2C-C1C	2.56	128.93	125.04
29	1b	603	CLA	O1D-CGD-CBD	-2.56	119.25	124.48
29	1R	308	CLA	CHB-C1B-C2B	-2.56	120.02	127.24
35	1c	516	BCR	C16-C15-C14	2.56	128.71	123.47
29	1g	602	CLA	C2A-C1A-CHA	-2.56	119.39	123.86
29	1b	606	CLA	C2A-C1A-CHA	-2.56	119.39	123.86
29	1a	406	CLA	CMC-C2C-C1C	2.55	128.93	125.04
41	1A	413	SQD	O47-C7-O49	-2.55	117.53	123.70
29	02	614	CLA	C3B-C4B-NB	2.55	112.88	110.52
31	1g	616	LUT	C7-C8-C9	2.55	130.09	126.23
29	1b	617	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
40	1a	412	PL9	C40-C39-C41	2.55	119.56	115.27
29	1s	315	CLA	C1-C2-C3	-2.55	121.63	126.04
29	04	307	CLA	CMC-C2C-C1C	2.55	128.92	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1b	611	CLA	C4-C3-C5	2.55	119.56	115.27
29	1r	309	CLA	C1-C2-C3	-2.55	121.63	126.04
29	1c	510	CLA	C4-C3-C5	2.55	119.56	115.27
30	1n	606	CHL	CMD-C2D-C3D	-2.55	121.75	127.61
29	1b	617	CLA	CHC-C4B-NB	-2.55	121.56	124.26
29	1n	604	CLA	CHB-C1B-NB	-2.55	121.56	124.26
29	1r	308	CLA	CMC-C2C-C1C	2.55	128.92	125.04
34	1A	414	DGD	C2G-O2G-C1B	-2.55	111.52	117.79
29	1B	608	CLA	CMD-C2D-C3D	-2.55	121.75	127.61
29	09	311	CLA	CAA-C2A-C3A	-2.55	110.15	116.10
30	1N	306	CHL	CHC-C4B-NB	-2.55	121.56	124.26
41	1A	413	SQD	O8-S-C6	-2.55	101.68	105.74
30	1R	303	CHL	CMD-C2D-C3D	-2.55	121.76	127.61
29	09	309	CLA	CHB-C1B-NB	-2.55	121.56	124.26
30	1N	302	CHL	C2A-C1A-CHA	-2.55	119.41	123.86
29	00	302	CLA	O2D-CGD-O1D	-2.55	118.86	123.84
29	1g	610	CLA	CAC-C3C-C4C	2.54	128.11	124.81
29	1n	602	CLA	CHB-C1B-NB	-2.54	121.56	124.26
29	1n	603	CLA	C1-C2-C3	-2.54	121.64	126.04
29	1r	314	CLA	O2D-CGD-O1D	-2.54	118.86	123.84
29	03	307	CLA	CMC-C2C-C1C	2.54	128.91	125.04
30	1N	306	CHL	O2D-CGD-O1D	-2.54	118.86	123.84
35	1J	101	BCR	C1-C6-C5	-2.54	119.03	122.61
29	1r	308	CLA	CMD-C2D-C3D	-2.54	121.76	127.61
29	1R	302	CLA	CMB-C2B-C1B	2.54	129.24	125.37
29	1r	312	CLA	C2A-C1A-CHA	-2.54	119.41	123.86
46	1R	316	XAT	C10-C11-C12	2.54	131.15	123.22
29	1c	515	CLA	CMB-C2B-C1B	2.54	129.24	125.37
29	1C	509	CLA	C4-C3-C5	2.54	119.55	115.27
29	1C	508	CLA	CMC-C2C-C1C	2.54	128.91	125.04
35	1i	101	BCR	C34-C9-C8	2.54	122.08	118.08
29	1d	403	CLA	C2A-C1A-CHA	-2.54	119.42	123.86
31	00	313	LUT	C19-C9-C8	2.54	122.08	118.08
29	1C	502	CLA	C2D-C1D-ND	2.54	111.97	110.10
45	1f	101	HEM	CHD-C4C-NC	2.54	127.19	124.44
29	1R	307	CLA	C2A-C1A-CHA	-2.54	119.42	123.85
29	03	306	CLA	C3B-C4B-NB	2.54	112.87	110.52
29	01	307	CLA	C1-C2-C3	-2.54	121.66	126.04
29	1n	613	CLA	O2A-CGA-CBA	2.54	119.87	111.91
30	07	305	CHL	C1C-C2C-C3C	-2.54	105.10	107.11
29	02	611	CLA	CMB-C2B-C1B	2.54	129.23	125.37
35	1B	619	BCR	C7-C8-C9	2.54	130.07	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1g	601	CHL	C4-C3-C5	2.54	119.54	115.27
29	1C	509	CLA	C4C-C3C-C2C	-2.54	103.20	106.90
35	1b	601	BCR	C35-C13-C14	-2.54	119.37	122.92
29	05	311	CLA	CMC-C2C-C1C	2.54	128.90	125.04
30	1n	601	CHL	C2A-C1A-CHA	-2.54	119.43	123.86
29	1G	612	CLA	O2A-CGA-CBA	2.54	119.86	111.91
29	01	309	CLA	C2D-C1D-ND	2.53	111.97	110.10
29	1c	515	CLA	CMC-C2C-C1C	2.53	128.90	125.04
41	1B	620	SQD	O47-C45-C46	-2.53	99.22	108.40
41	1b	622	SQD	O6-C44-C45	2.53	117.01	110.90
29	1S	314	CLA	C2A-C1A-CHA	-2.53	119.43	123.85
29	1C	510	CLA	CHC-C4B-NB	-2.53	121.58	124.26
30	08	304	CHL	CMD-C2D-C3D	-2.53	121.79	127.61
29	1A	404	CLA	CHB-C1B-NB	-2.53	121.58	124.26
29	1B	607	CLA	C4-C3-C5	2.53	119.53	115.27
29	06	602	CLA	CAC-C3C-C4C	2.53	128.09	124.81
30	04	301	CHL	CAA-C2A-C3A	-2.53	105.85	112.78
29	1b	610	CLA	C1-C2-C3	-2.53	121.67	126.04
30	00	307	CHL	C1-C2-C3	-2.53	121.67	126.04
40	1e	101	PL9	C10-C9-C11	2.53	119.53	115.27
29	1a	408	CLA	CMB-C2B-C1B	2.53	129.22	125.37
31	1n	615	LUT	C39-C29-C28	2.53	122.06	118.08
29	08	308	CLA	C3B-C4B-NB	2.53	112.86	110.52
29	05	301	CLA	CAA-C2A-C3A	-2.53	110.20	116.10
29	1c	503	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
29	1r	308	CLA	CMB-C2B-C1B	2.53	129.22	125.37
29	1b	610	CLA	C4-C3-C5	2.53	119.52	115.27
29	1r	312	CLA	C4-C3-C5	2.53	119.52	115.27
35	1H	101	BCR	C30-C25-C26	-2.53	119.06	122.61
29	1b	609	CLA	CMC-C2C-C1C	2.53	128.89	125.04
29	1n	614	CLA	CMC-C2C-C1C	2.53	128.89	125.04
29	1R	314	CLA	CMC-C2C-C1C	2.53	128.88	125.04
35	1i	101	BCR	C36-C18-C17	-2.52	119.39	122.92
29	1S	312	CLA	C4A-NA-C1A	2.52	107.84	106.71
29	1G	604	CLA	CAA-C2A-C3A	-2.52	110.21	116.10
29	1S	305	CLA	C2A-C1A-CHA	-2.52	119.45	123.85
29	1B	604	CLA	C2A-C1A-CHA	-2.52	119.44	123.86
30	08	303	CHL	CMD-C2D-C3D	-2.52	121.81	127.61
29	09	310	CLA	CMC-C2C-C1C	2.52	128.88	125.04
29	07	301	CLA	CMD-C2D-C3D	-2.52	121.81	127.61
35	1d	409	BCR	C29-C30-C25	2.52	114.36	110.48
29	08	310	CLA	CMB-C2B-C1B	2.52	129.21	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	1c	518	DGD	O6D-C5D-C6D	2.52	111.76	106.67
29	1c	513	CLA	CHC-C4B-NB	-2.52	121.59	124.26
29	1g	604	CLA	CHC-C4B-NB	-2.52	121.59	124.26
29	1R	310	CLA	C2A-C1A-CHA	-2.52	119.45	123.86
29	1g	613	CLA	O2A-CGA-CBA	2.52	119.82	111.91
29	1r	310	CLA	CMB-C2B-C1B	2.52	129.21	125.37
29	1N	303	CLA	C4-C3-C5	2.52	119.51	115.27
29	1D	402	CLA	C4C-C3C-C2C	-2.52	103.22	106.90
29	1b	608	CLA	CHB-C1B-NB	-2.52	121.59	124.26
29	1n	610	CLA	C2A-C3A-C4A	-2.52	97.80	101.87
29	1B	608	CLA	CHB-C1B-NB	-2.52	121.59	124.26
29	1D	404	CLA	CHB-C1B-NB	-2.52	121.59	124.26
35	1b	619	BCR	C24-C25-C26	2.52	127.56	121.46
29	1N	303	CLA	CMD-C2D-C3D	-2.52	121.83	127.61
29	1b	602	CLA	C1-C2-C3	-2.52	121.69	126.04
29	03	308	CLA	CMC-C2C-C1C	2.52	128.87	125.04
29	1C	504	CLA	C1-C2-C3	-2.52	121.69	126.04
29	1G	610	CLA	C2A-C1A-CHA	-2.52	119.46	123.86
29	1b	604	CLA	CHB-C4A-NA	2.51	127.99	124.51
29	1c	509	CLA	O2A-CGA-CBA	2.51	119.80	111.91
29	1R	302	CLA	C3B-C4B-NB	2.51	112.85	110.52
29	1b	616	CLA	CMC-C2C-C1C	2.51	128.87	125.04
29	1B	602	CLA	CHC-C4B-NB	-2.51	121.60	124.26
29	02	610	CLA	CMC-C2C-C1C	2.51	128.87	125.04
35	1j	101	BCR	C16-C17-C18	2.51	130.90	127.31
29	1C	507	CLA	O2A-CGA-CBA	2.51	119.79	111.91
29	04	306	CLA	CMC-C2C-C1C	2.51	128.86	125.04
30	00	308	CHL	CAC-C3C-C4C	2.51	128.07	124.81
30	03	305	CHL	CMD-C2D-C3D	-2.51	121.84	127.61
29	1d	403	CLA	CBC-CAC-C3C	-2.51	105.51	112.43
29	00	303	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
29	1N	312	CLA	CMC-C2C-C1C	2.51	128.86	125.04
29	1S	314	CLA	CAA-C2A-C3A	-2.51	110.24	116.10
34	1B	626	DGD	O1G-C1A-C2A	2.51	119.78	111.91
29	07	309	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
40	1E	102	PL9	C30-C29-C28	-2.51	117.24	123.68
29	1D	405	CLA	CMB-C2B-C1B	2.51	129.19	125.37
29	1B	605	CLA	O2A-CGA-CBA	2.51	119.78	111.91
29	03	309	CLA	CMC-C2C-C1C	2.51	128.86	125.04
29	1R	308	CLA	C3B-C4B-NB	2.51	112.84	110.52
40	1e	101	PL9	C7-C3-C2	-2.51	120.00	123.30
35	1Z	101	BCR	C38-C26-C25	2.51	127.34	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1b	620	BCR	C15-C16-C17	2.51	128.61	123.47
29	1D	401	CLA	C4C-C3C-C2C	-2.51	103.24	106.90
29	1S	316	CLA	CMC-C2C-C1C	2.51	128.86	125.04
29	1B	612	CLA	CHB-C1B-NB	-2.51	121.60	124.26
29	04	311	CLA	CMC-C2C-C1C	2.51	128.86	125.04
35	1b	601	BCR	C15-C14-C13	2.51	130.89	127.31
31	1r	315	LUT	C1-C6-C5	-2.51	119.08	122.61
35	1H	101	BCR	C30-C25-C24	2.51	122.87	115.78
31	1s	318	LUT	C7-C6-C5	2.50	127.53	121.46
29	1c	513	CLA	CMC-C2C-C1C	2.50	128.85	125.04
30	01	302	CHL	O2D-CGD-O1D	-2.50	118.94	123.84
29	05	309	CLA	CMC-C2C-C1C	2.50	128.85	125.04
29	09	317	CLA	CHC-C4B-NB	-2.50	121.61	124.26
29	1b	608	CLA	O2A-CGA-CBA	2.50	119.76	111.91
29	04	314	CLA	O2D-CGD-O1D	-2.50	118.95	123.84
29	1c	511	CLA	C3B-C4B-NB	2.50	112.83	110.52
29	1b	609	CLA	CHB-C4A-NA	2.50	127.97	124.51
35	04	313	BCR	C19-C18-C17	2.50	122.78	118.94
29	05	311	CLA	CAA-C2A-C3A	-2.50	110.26	116.10
29	1B	601	CLA	C2A-C1A-CHA	-2.50	119.49	123.86
29	1B	611	CLA	C1-C2-C3	-2.50	121.72	126.04
29	1c	504	CLA	C2D-C1D-ND	2.50	111.95	110.10
31	00	314	LUT	C1-C6-C5	-2.50	119.09	122.61
29	09	317	CLA	CMD-C2D-C3D	-2.50	121.87	127.61
30	00	305	CHL	C2A-C1A-CHA	-2.50	119.49	123.86
30	1R	305	CHL	C2A-C1A-CHA	-2.50	119.49	123.85
29	1G	612	CLA	CHC-C4B-NB	-2.50	121.61	124.26
29	02	612	CLA	C4C-C3C-C2C	-2.50	103.26	106.90
29	1b	614	CLA	O2A-CGA-CBA	2.50	119.75	111.91
40	1e	101	PL9	C7-C3-C4	2.50	118.91	116.88
29	01	307	CLA	CAC-C3C-C4C	2.50	128.05	124.81
31	1S	317	LUT	C11-C10-C9	2.50	130.87	127.31
29	02	608	CLA	CMB-C2B-C1B	2.50	129.17	125.37
29	1D	404	CLA	C2A-C1A-CHA	-2.50	119.49	123.86
35	1b	620	BCR	C19-C18-C17	2.50	122.77	118.94
29	04	309	CLA	CMB-C2B-C1B	2.50	129.17	125.37
29	1a	406	CLA	O2D-CGD-O1D	-2.49	118.96	123.84
29	1B	606	CLA	CMC-C2C-C1C	2.49	128.84	125.04
29	1s	315	CLA	CMD-C2D-C3D	-2.49	121.88	127.61
29	1C	509	CLA	CAC-C3C-C4C	2.49	128.05	124.81
29	1A	407	CLA	CMD-C2D-C3D	-2.49	121.88	127.61
29	07	310	CLA	CMC-C2C-C1C	2.49	128.84	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	01	308	CLA	C1-C2-C3	-2.49	121.73	126.04
29	1B	616	CLA	C4-C3-C5	2.49	119.46	115.27
29	1n	611	CLA	C4-C3-C5	2.49	119.46	115.27
29	1n	610	CLA	CBC-CAC-C3C	-2.49	105.56	112.43
29	02	609	CLA	CMC-C2C-C1C	2.49	128.83	125.04
29	00	311	CLA	CMD-C2D-C3D	-2.49	121.88	127.61
29	02	613	CLA	CMC-C2C-C1C	2.49	128.83	125.04
29	09	311	CLA	C4A-NA-C1A	2.49	107.83	106.71
29	1B	613	CLA	O2A-CGA-O1A	-2.49	117.31	123.59
30	1n	601	CHL	CHC-C4B-NB	-2.49	121.62	124.26
29	1R	314	CLA	O2D-CGD-O1D	-2.49	118.97	123.84
29	00	303	CLA	C1-O2A-CGA	2.49	122.98	116.44
29	1b	611	CLA	CAC-C3C-C4C	2.49	128.04	124.81
35	1A	409	BCR	C38-C26-C25	2.49	127.32	124.53
29	01	308	CLA	C4A-NA-C1A	2.49	107.83	106.71
29	05	311	CLA	C3B-C4B-NB	2.49	112.82	110.52
29	02	602	CLA	CMC-C2C-C1C	2.49	128.83	125.04
30	00	308	CHL	C2A-C1A-CHA	-2.49	119.51	123.86
30	1r	305	CHL	C2A-C1A-CHA	-2.49	119.51	123.86
29	1d	407	CLA	CMC-C2C-C1C	2.49	128.83	125.04
29	1g	610	CLA	CED-O2D-CGD	2.49	121.56	115.94
30	04	305	CHL	C2A-C1A-CHA	-2.49	119.51	123.86
29	1r	302	CLA	C2A-C1A-CHA	-2.49	119.51	123.85
29	1S	314	CLA	C2D-C1D-ND	2.49	111.94	110.10
30	02	603	CHL	O2D-CGD-O1D	-2.49	118.98	123.84
30	09	305	CHL	OMC-CMC-C2C	-2.49	120.07	125.69
29	1C	504	CLA	CHB-C1B-NB	-2.49	121.63	124.26
30	1s	308	CHL	CMB-C2B-C1B	2.49	129.15	125.37
29	1R	308	CLA	CMD-C2D-C3D	-2.49	121.90	127.61
29	1B	611	CLA	O2A-CGA-CBA	2.48	119.71	111.91
30	00	305	CHL	C4D-CHA-C1A	-2.48	118.22	121.25
31	00	313	LUT	C35-C15-C14	2.48	128.56	123.47
29	1n	604	CLA	C2A-C1A-CHA	-2.48	119.52	123.85
29	1N	315	CLA	CMC-C2C-C1C	2.48	128.82	125.04
29	04	308	CLA	C2A-C1A-CHA	-2.48	119.52	123.85
29	05	302	CLA	CMB-C2B-C1B	2.48	129.15	125.37
29	1s	306	CLA	CMC-C2C-C1C	2.48	128.82	125.04
29	1C	501	CLA	C1-C2-C3	-2.48	121.75	126.04
29	01	313	CLA	CMC-C2C-C1C	2.48	128.82	125.04
29	1g	602	CLA	C3B-C4B-NB	2.48	112.82	110.52
31	1g	616	LUT	C31-C30-C29	2.48	130.85	127.31
29	1s	316	CLA	CMC-C2C-C1C	2.48	128.82	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	309	CLA	CMB-C2B-C1B	2.48	129.15	125.37
46	1R	316	XAT	C4-C3-C2	-2.48	105.98	110.77
29	06	608	CLA	CMC-C2C-C1C	2.48	128.81	125.04
35	1Z	102	BCR	C10-C11-C12	2.48	130.95	123.22
29	1d	403	CLA	C4-C3-C5	2.48	119.44	115.27
29	03	310	CLA	CMC-C2C-C1C	2.48	128.81	125.04
35	1d	409	BCR	C2-C1-C6	2.48	114.30	110.48
46	1G	617	XAT	C27-C28-C29	-2.48	121.69	125.53
35	1j	101	BCR	C29-C30-C25	2.48	114.29	110.48
41	1a	411	SQD	O8-S-C6	-2.48	101.79	105.74
29	1R	314	CLA	CMB-C2B-C1B	2.48	129.14	125.37
35	1B	618	BCR	C24-C25-C26	2.48	127.46	121.46
29	1B	607	CLA	O1D-CGD-CBD	-2.48	119.42	124.48
29	09	310	CLA	C2A-C1A-CHA	-2.48	119.53	123.85
29	1D	404	CLA	O2A-CGA-CBA	2.48	119.67	111.91
29	1b	610	CLA	CMD-C2D-C3D	-2.47	121.92	127.61
30	05	315	CHL	CED-O2D-CGD	2.47	121.53	115.94
35	1Z	101	BCR	C8-C9-C10	2.47	122.74	118.94
30	06	601	CHL	O2D-CGD-O1D	-2.47	119.00	123.84
30	1n	605	CHL	O2D-CGD-O1D	-2.47	119.00	123.84
29	09	309	CLA	CAA-C2A-C3A	-2.47	110.33	116.10
35	1d	409	BCR	C24-C25-C26	2.47	127.45	121.46
29	1G	602	CLA	CHB-C1B-NB	-2.47	121.64	124.26
29	04	314	CLA	CMC-C2C-C1C	2.47	128.80	125.04
30	1G	607	CHL	C4D-CHA-C1A	-2.47	118.24	121.25
29	1g	614	CLA	CMC-C2C-C1C	2.47	128.80	125.04
31	09	313	LUT	C12-C13-C14	2.47	122.73	118.94
29	1s	311	CLA	C2D-C1D-ND	2.47	111.92	110.10
29	03	310	CLA	C3B-C4B-NB	2.47	112.81	110.52
30	05	307	CHL	C2A-C1A-CHA	-2.47	119.54	123.85
31	1r	315	LUT	C12-C13-C14	2.47	122.73	118.94
30	05	307	CHL	CAC-C3C-C4C	2.47	128.01	124.81
29	1B	607	CLA	O2A-CGA-O1A	-2.47	117.36	123.59
29	1c	505	CLA	C4A-NA-C1A	2.47	107.81	106.71
29	1b	612	CLA	CHB-C4A-NA	2.47	127.92	124.51
29	09	312	CLA	CMC-C2C-C1C	2.47	128.79	125.04
29	1r	304	CLA	O2D-CGD-O1D	-2.47	119.02	123.84
29	1b	605	CLA	CBA-CAA-C2A	-2.47	107.98	113.47
29	1S	310	CLA	C2A-C1A-CHA	-2.46	119.55	123.85
29	1B	613	CLA	O2A-CGA-CBA	2.46	119.64	111.91
29	1C	508	CLA	CED-O2D-CGD	2.46	121.51	115.94
29	00	302	CLA	CMC-C2C-C1C	2.46	128.79	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	05	301	CLA	CMB-C2B-C1B	2.46	129.12	125.37
29	05	310	CLA	CMC-C2C-C1C	2.46	128.79	125.04
30	1g	605	CHL	C1C-C2C-C3C	-2.46	105.16	107.11
30	1s	304	CHL	CMB-C2B-C1B	2.46	129.12	125.37
40	1E	102	PL9	C47-C48-C49	-2.46	119.33	127.75
29	01	310	CLA	CMC-C2C-C1C	2.46	128.79	125.04
29	1s	312	CLA	CMB-C2B-C1B	2.46	129.12	125.37
31	1g	615	LUT	C35-C15-C14	2.46	128.52	123.47
30	05	305	CHL	C1C-C2C-C3C	-2.46	105.16	107.11
29	00	318	CLA	CMD-C2D-C3D	-2.46	121.95	127.61
29	1C	510	CLA	CMC-C2C-C1C	2.46	128.78	125.04
29	1n	613	CLA	CBB-CAB-C3B	-2.46	115.39	127.62
30	1R	303	CHL	CAA-C2A-C3A	-2.46	108.12	114.26
30	06	606	CHL	O2D-CGD-O1D	-2.46	119.03	123.84
31	1n	615	LUT	C32-C33-C34	2.46	122.71	118.94
41	1L	102	SQD	O8-S-C6	-2.46	101.82	105.74
29	1B	612	CLA	C2A-C1A-CHA	-2.46	119.56	123.86
29	01	312	CLA	CMB-C2B-C1B	2.46	129.11	125.37
29	1B	612	CLA	C4-C3-C5	2.46	119.41	115.27
29	01	307	CLA	CHB-C1B-C2B	-2.46	120.30	127.24
29	1r	312	CLA	C1-C2-C3	-2.46	121.79	126.04
29	04	309	CLA	CMC-C2C-C1C	2.46	128.78	125.04
29	06	607	CLA	CMC-C2C-C1C	2.46	128.78	125.04
29	1B	609	CLA	C2D-C1D-ND	2.46	111.91	110.10
30	1N	310	CHL	C2A-C1A-CHA	-2.46	119.57	123.86
29	1c	514	CLA	C4C-C3C-C2C	-2.45	103.32	106.90
34	1B	627	DGD	O6E-C5E-C4E	2.45	114.15	109.69
29	1B	609	CLA	O2D-CGD-O1D	-2.45	119.04	123.84
29	02	608	CLA	CAA-C2A-C3A	-2.45	110.37	116.10
31	1s	318	LUT	C18-C5-C4	-2.45	109.81	114.36
29	1N	314	CLA	C4D-CHA-C1A	-2.45	118.26	121.25
29	1b	603	CLA	CMC-C2C-C1C	2.45	128.77	125.04
29	08	309	CLA	CMC-C2C-C3C	2.45	132.77	126.12
30	08	305	CHL	CAD-CBD-CHA	-2.45	102.38	105.14
29	02	614	CLA	CMC-C2C-C1C	2.45	128.77	125.04
31	1g	615	LUT	C11-C10-C9	2.45	130.81	127.31
29	1G	613	CLA	CMC-C2C-C1C	2.45	128.77	125.04
29	1C	509	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
31	05	314	LUT	C35-C15-C14	2.45	128.49	123.47
30	1G	608	CHL	C1C-C2C-C3C	-2.45	105.17	107.11
30	1s	309	CHL	C2A-C1A-CHA	-2.45	119.58	123.85
35	1c	516	BCR	C33-C5-C6	2.45	127.28	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1g	607	CHL	CED-O2D-CGD	2.45	121.47	115.94
29	04	306	CLA	CMB-C2B-C1B	2.45	129.10	125.37
30	08	301	CHL	C2A-C1A-CHA	-2.45	119.58	123.85
31	1G	615	LUT	C12-C13-C14	2.45	122.70	118.94
29	1B	601	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
29	1c	507	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
30	1s	309	CHL	CMA-C3A-C2A	-2.45	110.39	116.10
29	1n	602	CLA	C2A-C1A-CHA	-2.45	119.58	123.86
29	1S	312	CLA	O2D-CGD-O1D	-2.45	119.06	123.84
29	07	310	CLA	C3A-C4A-CHB	-2.45	117.57	124.01
35	1b	618	BCR	C37-C22-C23	2.44	121.93	118.08
29	1n	604	CLA	C2D-C1D-ND	2.44	111.91	110.10
29	1a	408	CLA	C4-C3-C5	2.44	119.38	115.27
29	1b	602	CLA	O2D-CGD-O1D	-2.44	119.06	123.84
30	1g	601	CHL	O2A-CGA-CBA	2.44	119.57	111.91
29	09	301	CLA	C1-C2-C3	-2.44	121.82	126.04
29	1s	313	CLA	CMC-C2C-C1C	2.44	128.76	125.04
30	04	301	CHL	O2D-CGD-O1D	-2.44	119.06	123.84
29	1C	508	CLA	C4D-CHA-C1A	-2.44	118.28	121.25
29	1n	612	CLA	CMC-C2C-C1C	2.44	128.76	125.04
29	1s	307	CLA	CMC-C2C-C1C	2.44	128.76	125.04
29	1c	507	CLA	C1-C2-C3	-2.44	121.82	126.04
29	1B	610	CLA	C3B-C4B-NB	2.44	112.78	110.52
29	02	612	CLA	C2A-C1A-CHA	-2.44	119.59	123.86
35	1D	406	BCR	C7-C6-C5	2.44	127.38	121.46
29	1r	303	CLA	O2D-CGD-O1D	-2.44	119.06	123.84
30	1s	308	CHL	CMD-C2D-C3D	-2.44	122.00	127.61
30	1R	313	CHL	C2A-C1A-CHA	-2.44	119.59	123.86
29	07	307	CLA	CMC-C2C-C1C	2.44	128.76	125.04
29	1G	602	CLA	C3B-C4B-NB	2.44	112.78	110.52
29	1c	508	CLA	C2D-C1D-ND	2.44	111.90	110.10
30	1N	306	CHL	C2A-C1A-CHA	-2.44	119.59	123.85
29	1r	308	CLA	O2A-CGA-CBA	2.44	119.56	111.91
29	03	308	CLA	C3A-C4A-CHB	-2.44	117.59	124.01
29	1B	610	CLA	O2A-CGA-CBA	2.44	119.56	111.91
34	00	320	DGD	O1G-C1A-C2A	2.44	119.56	111.91
29	1B	601	CLA	CAC-C3C-C4C	2.44	127.97	124.81
29	1G	604	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
29	1C	508	CLA	C1-C2-C3	-2.44	121.83	126.04
29	1c	511	CLA	CED-O2D-CGD	2.44	121.45	115.94
30	1N	308	CHL	CED-O2D-CGD	2.44	121.45	115.94
29	02	608	CLA	C2A-C1A-CHA	-2.44	119.60	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	1R	315	LUT	C8-C9-C10	2.44	122.68	118.94
29	07	302	CLA	CHB-C4A-NA	2.43	127.88	124.51
29	1D	405	CLA	CMC-C2C-C1C	2.43	128.75	125.04
35	1B	630	BCR	C24-C25-C26	2.43	127.36	121.46
46	1g	619	XAT	O24-C25-C26	-2.43	56.94	58.96
29	00	309	CLA	CED-O2D-CGD	2.43	121.44	115.94
29	08	306	CLA	C4A-NA-C1A	2.43	107.80	106.71
31	1s	318	LUT	C7-C8-C9	-2.43	122.56	126.23
46	1g	617	XAT	C8-C9-C10	2.43	122.67	118.94
30	01	304	CHL	C4-C3-C5	2.43	119.36	115.27
29	1c	506	CLA	CHB-C1B-NB	-2.43	121.68	124.26
29	1g	612	CLA	C4-C3-C5	2.43	119.36	115.27
35	1c	516	BCR	C2-C1-C6	2.43	114.22	110.48
35	1B	619	BCR	C19-C18-C17	2.43	122.67	118.94
29	1d	406	CLA	C4-C3-C5	2.43	119.36	115.27
29	1N	311	CLA	CMB-C2B-C1B	2.43	129.07	125.37
29	1B	601	CLA	O2A-CGA-O1A	-2.43	117.47	123.59
29	06	610	CLA	CMC-C2C-C1C	2.43	128.74	125.04
29	02	611	CLA	CMC-C2C-C1C	2.43	128.73	125.04
31	01	315	LUT	C7-C8-C9	2.43	129.90	126.23
29	1c	506	CLA	O2A-CGA-CBA	2.43	119.52	111.91
29	1S	316	CLA	O2D-CGD-O1D	-2.43	119.09	123.84
30	01	303	CHL	C1C-C2C-C3C	-2.43	105.19	107.11
31	1G	616	LUT	C31-C30-C29	2.43	130.77	127.31
35	04	313	BCR	C24-C23-C22	-2.42	122.57	126.23
29	1C	505	CLA	C4-C3-C5	2.42	119.35	115.27
29	1c	510	CLA	O2A-CGA-CBA	2.42	119.52	111.91
29	1n	611	CLA	C1-C2-C3	-2.42	121.85	126.04
29	1S	312	CLA	CAA-C2A-C3A	-2.42	110.44	116.10
29	1s	312	CLA	CHB-C1B-NB	-2.42	121.69	124.26
30	09	308	CHL	C2A-C1A-CHA	-2.42	119.62	123.86
30	09	308	CHL	C4-C3-C5	2.42	119.35	115.27
30	1s	308	CHL	C1C-C2C-C3C	-2.42	105.19	107.11
29	1b	614	CLA	CAC-C3C-C4C	2.42	127.95	124.81
29	00	301	CLA	CMD-C2D-C3D	-2.42	122.04	127.61
29	00	309	CLA	C2A-C1A-CHA	-2.42	119.62	123.86
29	1C	508	CLA	O2A-CGA-CBA	2.42	119.51	111.91
29	1N	314	CLA	C4-C3-C5	2.42	119.34	115.27
29	1B	607	CLA	C1-C2-C3	-2.42	121.86	126.04
35	1b	620	BCR	C33-C5-C6	2.42	127.25	124.53
30	1n	601	CHL	C4D-CHA-C1A	-2.42	118.30	121.25
29	1s	311	CLA	CMC-C2C-C1C	2.42	128.72	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1b	620	BCR	C29-C30-C25	2.42	114.20	110.48
29	1C	510	CLA	C4-C3-C5	2.42	119.34	115.27
29	1D	404	CLA	C2D-C1D-ND	2.42	111.89	110.10
29	07	301	CLA	C2A-C1A-CHA	-2.42	119.63	123.85
35	1a	409	BCR	C16-C15-C14	2.42	128.43	123.47
31	01	315	LUT	C15-C14-C13	2.42	130.76	127.31
34	1C	518	DGD	C2G-O2G-C1B	-2.42	111.84	117.79
29	1c	508	CLA	CHB-C4A-NA	2.42	127.85	124.51
31	1S	317	LUT	C12-C13-C14	2.42	122.65	118.94
29	07	302	CLA	CHC-C1C-NC	2.42	127.87	124.20
30	1N	302	CHL	C1C-C2C-C3C	-2.42	105.20	107.11
29	02	609	CLA	CBA-CAA-C2A	-2.42	108.09	113.47
29	00	301	CLA	C2A-C1A-CHA	-2.42	119.64	123.86
30	01	306	CHL	C2A-C1A-CHA	-2.42	119.64	123.86
30	1s	309	CHL	C4D-CHA-C1A	-2.41	118.31	121.25
29	1b	615	CLA	C2D-C1D-ND	2.41	111.88	110.10
29	1N	305	CLA	C2A-C1A-CHA	-2.41	119.64	123.85
31	1s	318	LUT	C8-C7-C6	2.41	133.98	127.20
29	04	306	CLA	C2A-C1A-CHA	-2.41	119.64	123.86
29	1r	310	CLA	CMC-C2C-C1C	2.41	128.71	125.04
30	1g	606	CHL	O2D-CGD-O1D	-2.41	119.12	123.84
29	1s	306	CLA	C3B-C4B-NB	2.41	112.75	110.52
29	1B	610	CLA	CHB-C1B-NB	-2.41	121.70	124.26
30	00	306	CHL	CMD-C2D-C3D	-2.41	122.07	127.61
29	1C	512	CLA	CAA-C2A-C3A	-2.41	106.18	112.78
30	01	306	CHL	O2A-CGA-CBA	2.41	119.47	111.91
29	1b	606	CLA	C4-C3-C5	2.41	119.32	115.27
29	1C	502	CLA	CMD-C2D-C3D	-2.41	122.07	127.61
29	1d	406	CLA	O2D-CGD-O1D	-2.41	119.13	123.84
29	06	607	CLA	CAA-C2A-C3A	-2.40	110.49	116.10
30	1N	302	CHL	C1-C2-C3	-2.40	121.89	126.04
29	1R	309	CLA	C3B-C4B-NB	2.40	112.75	110.52
31	03	313	LUT	C35-C15-C14	2.40	128.40	123.47
29	1C	508	CLA	CHB-C4A-NA	2.40	127.83	124.51
29	03	301	CLA	O2D-CGD-O1D	-2.40	119.14	123.84
29	08	312	CLA	CMC-C2C-C1C	2.40	128.70	125.04
34	1C	516	DGD	O1G-C1A-C2A	2.40	119.44	111.91
29	1B	615	CLA	O2D-CGD-O1D	-2.40	119.14	123.84
30	09	305	CHL	CAA-C2A-C3A	-2.40	108.26	114.26
30	09	307	CHL	CAA-C2A-C3A	-2.40	108.26	114.26
29	1n	610	CLA	CMB-C2B-C1B	2.40	129.03	125.37
30	1R	303	CHL	CHB-C1B-C2B	-2.40	120.46	127.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1n	602	CLA	O2D-CGD-O1D	-2.40	119.15	123.84
29	00	310	CLA	O2D-CGD-O1D	-2.40	119.15	123.84
29	1c	503	CLA	C2A-C1A-CHA	-2.40	119.67	123.86
35	1B	630	BCR	C2-C1-C6	2.40	114.17	110.48
30	08	302	CHL	C2A-C1A-CHA	-2.40	119.67	123.85
30	1N	309	CHL	CHC-C4B-NB	-2.40	121.72	124.26
29	1r	302	CLA	O2D-CGD-O1D	-2.40	119.15	123.84
30	1g	601	CHL	CAC-C3C-C4C	2.40	127.92	124.81
29	1B	611	CLA	C4C-C3C-C2C	-2.40	103.41	106.90
29	1g	604	CLA	C2D-C1D-ND	2.40	111.87	110.10
31	1N	316	LUT	C35-C15-C14	2.39	128.38	123.47
30	06	604	CHL	C2A-C1A-CHA	-2.39	119.68	123.85
30	1n	606	CHL	CHB-C1B-NB	-2.39	121.72	124.26
29	1N	305	CLA	CMA-C3A-C2A	-2.39	110.52	116.10
29	1B	614	CLA	C3B-C4B-NB	2.39	112.73	110.52
29	1g	610	CLA	C1-O2A-CGA	2.39	122.71	116.44
29	01	307	CLA	CMC-C2C-C1C	2.39	128.68	125.04
29	1n	610	CLA	C1-C2-C3	-2.39	121.91	126.04
29	1R	311	CLA	CMC-C2C-C1C	2.39	128.68	125.04
34	1S	320	DGD	O6D-C5D-C6D	2.39	111.49	106.67
29	1c	507	CLA	CHB-C1B-NB	-2.39	121.73	124.26
29	1b	607	CLA	C2A-C1A-CHA	-2.39	119.68	123.86
31	1N	316	LUT	C7-C8-C9	2.39	129.84	126.23
31	1r	315	LUT	C32-C33-C34	2.39	122.60	118.94
29	1B	614	CLA	O2D-CGD-O1D	-2.39	119.17	123.84
30	1g	608	CHL	CHC-C4B-NB	-2.39	121.73	124.26
29	1G	602	CLA	CMD-C2D-C3D	-2.39	122.12	127.61
30	1G	601	CHL	O2D-CGD-O1D	-2.39	119.17	123.84
30	1n	609	CHL	C2A-C1A-CHA	-2.39	119.69	123.86
30	02	606	CHL	C2A-C1A-CHA	-2.38	119.69	123.86
29	1B	611	CLA	CMB-C2B-C1B	2.38	129.00	125.37
29	1S	305	CLA	CMA-C3A-C2A	-2.38	110.53	116.10
35	1J	101	BCR	C21-C20-C19	2.38	130.66	123.22
29	1n	604	CLA	CHC-C4B-NB	-2.38	121.73	124.26
30	04	304	CHL	C2A-C1A-CHA	-2.38	119.69	123.86
35	1a	409	BCR	C12-C13-C14	2.38	122.60	118.94
29	1b	613	CLA	C4D-C3D-CAD	2.38	110.90	108.10
29	01	301	CLA	C2D-C1D-ND	2.38	111.86	110.10
30	09	305	CHL	CMD-C2D-C3D	-2.38	122.14	127.61
35	04	313	BCR	C7-C6-C5	2.38	127.23	121.46
29	09	312	CLA	O2D-CGD-O1D	-2.38	118.68	124.09
30	1N	307	CHL	O2D-CGD-O1D	-2.38	119.19	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	602	CLA	C1-C2-C3	-2.38	121.93	126.04
30	09	304	CHL	O2D-CGD-O1D	-2.38	118.69	124.09
29	06	607	CLA	C2A-C1A-CHA	-2.38	119.70	123.85
35	1a	409	BCR	C24-C23-C22	2.38	129.83	126.23
30	1G	608	CHL	O2D-CGD-O1D	-2.38	119.19	123.84
29	04	312	CLA	CMC-C2C-C1C	2.38	128.66	125.04
29	01	310	CLA	C1-C2-C3	-2.38	121.93	126.04
35	1B	619	BCR	C24-C25-C26	2.38	127.22	121.46
29	1c	511	CLA	CMC-C2C-C1C	2.38	128.66	125.04
29	01	307	CLA	CBB-CAB-C3B	-2.38	115.80	127.62
29	1b	612	CLA	CMD-C2D-C3D	-2.37	122.15	127.61
29	1C	506	CLA	CAC-C3C-C4C	2.37	127.89	124.81
29	1n	610	CLA	C4A-NA-C1A	-2.37	105.64	106.71
41	1D	412	SQD	O8-S-C6	-2.37	101.96	105.74
31	09	313	LUT	C35-C15-C14	2.37	128.33	123.47
29	1C	501	CLA	CMB-C2B-C3B	2.37	132.33	126.59
29	05	308	CLA	CAA-C2A-C3A	-2.37	110.56	116.10
29	1S	313	CLA	C4-C3-C5	2.37	119.26	115.27
29	1N	303	CLA	C2A-C1A-CHA	-2.37	119.71	123.86
33	1c	522	LHG	O4-P-O5	2.37	119.96	110.68
35	1b	618	BCR	C34-C9-C8	2.37	121.81	118.08
29	05	302	CLA	C3B-C4B-NB	2.37	112.71	110.52
29	1B	614	CLA	CHD-C1D-ND	-2.37	122.28	124.45
30	04	303	CHL	CED-O2D-CGD	2.37	121.30	115.94
29	1n	603	CLA	CMC-C2C-C1C	2.37	128.65	125.04
29	1B	606	CLA	CHB-C1B-C2B	-2.37	120.55	127.24
29	1S	315	CLA	CMC-C2C-C1C	2.37	128.64	125.04
29	1g	612	CLA	O2A-CGA-CBA	2.37	119.33	111.91
29	1B	616	CLA	C2D-C1D-ND	2.37	111.85	110.10
29	03	312	CLA	CMC-C2C-C1C	2.36	128.64	125.04
33	1C	526	LHG	O4-P-O5	2.36	119.94	110.68
29	1r	309	CLA	C2A-C1A-CHA	-2.36	119.72	123.86
29	03	308	CLA	C2A-C1A-CHA	-2.36	119.05	122.71
30	1G	607	CHL	C3A-C2A-C1A	-2.36	97.80	101.34
30	1r	313	CHL	O2D-CGD-O1D	-2.36	119.22	123.84
31	00	313	LUT	C7-C8-C9	2.36	129.81	126.23
29	1g	604	CLA	CMC-C2C-C1C	2.36	128.64	125.04
29	1B	606	CLA	CHB-C4A-NA	2.36	127.78	124.51
30	03	311	CHL	C2A-C1A-CHA	-2.36	119.73	123.85
29	04	306	CLA	C2D-C1D-ND	2.36	111.84	110.10
29	1c	509	CLA	C4A-NA-C1A	2.36	107.77	106.71
29	09	311	CLA	O2D-CGD-O1D	-2.36	119.23	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1D	406	BCR	C19-C18-C17	2.36	122.56	118.94
30	1G	606	CHL	CHC-C4B-NB	-2.36	121.76	124.26
29	1b	614	CLA	CHC-C1C-NC	2.36	127.78	124.20
35	1c	516	BCR	C24-C23-C22	-2.36	122.67	126.23
41	1b	621	SQD	O8-S-C6	-2.36	101.98	105.74
29	1N	313	CLA	CMC-C2C-C1C	2.36	128.63	125.04
29	1N	315	CLA	C2A-C1A-CHA	-2.36	119.74	123.85
29	1d	406	CLA	CHB-C1B-NB	-2.36	121.76	124.26
29	1S	305	CLA	CHC-C1C-C2C	-2.36	120.19	126.73
30	05	307	CHL	O2D-CGD-O1D	-2.36	119.23	123.84
29	1r	314	CLA	C2A-C1A-CHA	-2.36	119.74	123.86
35	1B	630	BCR	C37-C22-C23	2.35	121.79	118.08
46	1g	617	XAT	C20-C13-C14	-2.35	119.62	122.92
35	1c	516	BCR	C19-C18-C17	2.35	122.55	118.94
29	1B	608	CLA	CAC-C3C-C4C	2.35	127.86	124.81
30	07	304	CHL	C2A-C1A-CHA	-2.35	119.75	123.85
30	1g	609	CHL	C2A-C1A-CHA	-2.35	119.75	123.86
29	05	302	CLA	CMC-C2C-C1C	2.35	128.62	125.04
29	1C	503	CLA	O2D-CGD-O1D	-2.35	119.24	123.84
30	1n	609	CHL	C4-C3-C2	-2.35	117.64	123.68
29	1r	309	CLA	C4-C3-C5	2.35	119.23	115.27
30	04	301	CHL	CMD-C2D-C3D	-2.35	122.20	127.61
29	1c	506	CLA	O2D-CGD-O1D	-2.35	119.24	123.84
29	1r	303	CLA	CMC-C2C-C1C	2.35	128.62	125.04
29	1G	602	CLA	O1D-CGD-CBD	-2.35	119.67	124.48
30	1N	310	CHL	O2D-CGD-O1D	-2.35	119.24	123.84
30	05	307	CHL	C4D-CHA-C1A	-2.35	118.39	121.25
29	1A	404	CLA	CMB-C2B-C1B	2.35	128.95	125.37
30	1G	605	CHL	C2A-C1A-CHA	-2.35	119.75	123.85
30	1g	606	CHL	C2A-C1A-CHA	-2.35	119.75	123.86
29	1B	610	CLA	O2D-CGD-O1D	-2.35	119.25	123.84
29	1n	602	CLA	CMB-C2B-C1B	2.35	128.94	125.37
29	00	302	CLA	C4A-NA-C1A	2.35	107.76	106.71
29	1s	314	CLA	CMC-C2C-C1C	2.35	128.61	125.04
34	1S	320	DGD	C4D-C3D-C2D	2.35	114.92	110.82
30	05	306	CHL	C2A-C1A-CHA	-2.35	119.76	123.85
29	1b	614	CLA	C3B-C4B-NB	2.35	112.69	110.52
29	09	303	CLA	C2D-C1D-ND	2.34	111.83	110.10
29	1d	403	CLA	C1-C2-C3	-2.34	121.99	126.04
30	00	307	CHL	CHC-C4B-NB	-2.34	121.78	124.26
29	07	309	CLA	O2A-CGA-CBA	2.34	119.27	111.91
30	00	304	CHL	C4D-CHA-C1A	-2.34	118.40	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1n	610	CLA	C4C-C3C-C2C	-2.34	103.48	106.90
30	1N	302	CHL	O2D-CGD-O1D	-2.34	119.26	123.84
29	02	608	CLA	CAC-C3C-C4C	2.34	127.85	124.81
30	02	606	CHL	C1C-C2C-C3C	-2.34	105.25	107.11
29	1B	601	CLA	CHB-C1B-NB	-2.34	121.78	124.26
31	1s	318	LUT	C31-C30-C29	2.34	130.65	127.31
29	1n	613	CLA	C1-C2-C3	-2.34	121.99	126.04
29	03	307	CLA	C4A-NA-C1A	2.34	107.76	106.71
29	1b	611	CLA	C4A-NA-C1A	2.34	107.76	106.71
29	1S	311	CLA	C2D-C1D-ND	2.34	111.83	110.10
35	1J	101	BCR	C34-C9-C8	2.34	121.77	118.08
30	08	304	CHL	C2A-C1A-CHA	-2.34	119.77	123.85
30	05	304	CHL	CHB-C4A-NA	2.34	127.75	124.51
30	02	601	CHL	O2D-CGD-O1D	-2.34	119.26	123.84
30	04	304	CHL	CAA-C2A-C3A	-2.34	108.41	114.26
29	09	301	CLA	C2A-C1A-CHA	-2.34	119.77	123.86
29	1d	406	CLA	C3B-C4B-NB	2.34	112.69	110.52
29	04	309	CLA	O2A-CGA-CBA	2.34	121.55	114.03
30	06	605	CHL	C2A-C1A-CHA	-2.34	119.77	123.86
29	1A	404	CLA	O2A-CGA-CBA	2.34	119.25	111.91
29	1c	508	CLA	CED-O2D-CGD	2.34	121.23	115.94
30	1g	609	CHL	O2D-CGD-O1D	-2.34	119.26	123.84
33	1I	101	LHG	O4-P-O5	2.34	119.84	110.68
29	1b	607	CLA	O2D-CGD-O1D	-2.34	119.27	123.84
29	1D	401	CLA	CMC-C2C-C1C	2.34	128.60	125.04
29	1n	612	CLA	O2D-CGD-O1D	-2.34	119.27	123.84
29	1R	309	CLA	CHD-C1D-ND	-2.34	122.31	124.45
29	1b	613	CLA	C2A-C1A-CHA	-2.34	119.78	123.86
29	08	307	CLA	CMC-C2C-C1C	2.34	128.59	125.04
31	1S	317	LUT	C31-C30-C29	2.33	130.64	127.31
29	1R	314	CLA	C2A-C1A-CHA	-2.33	119.78	123.86
29	02	608	CLA	CMC-C2C-C1C	2.33	128.59	125.04
29	1b	607	CLA	CMB-C2B-C1B	2.33	128.92	125.37
30	03	303	CHL	C2A-C1A-CHA	-2.33	119.78	123.86
35	1b	619	BCR	C19-C18-C17	2.33	122.52	118.94
29	1S	311	CLA	CHB-C1B-NB	-2.33	121.79	124.26
29	1n	613	CLA	CMD-C2D-C3D	-2.33	122.26	127.61
29	09	302	CLA	C4-C3-C5	2.33	119.19	115.27
30	1G	608	CHL	O1D-CGD-CBD	-2.33	119.72	124.48
29	1S	310	CLA	C3B-C4B-NB	2.33	112.67	110.52
35	1k	102	BCR	C24-C25-C26	2.33	127.10	121.46
29	02	609	CLA	O2D-CGD-O1D	-2.33	119.29	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1C	510	CLA	O2A-CGA-CBA	2.32	119.20	111.91
29	1c	513	CLA	CMB-C2B-C1B	2.32	128.91	125.37
30	07	306	CHL	C2A-C1A-CHA	-2.32	119.80	123.85
29	1B	604	CLA	O2D-CGD-O1D	-2.32	119.30	123.84
29	1a	406	CLA	C5-C3-C4	2.32	119.73	114.60
35	1b	619	BCR	C34-C9-C8	2.32	121.74	118.08
29	1n	603	CLA	O2D-CGD-O1D	-2.32	119.30	123.84
29	1R	310	CLA	O2D-CGD-O1D	-2.32	118.82	124.09
29	09	302	CLA	O2D-CGD-O1D	-2.32	119.30	123.84
30	1n	608	CHL	CHC-C4B-NB	-2.32	121.80	124.26
29	1B	601	CLA	O1D-CGD-CBD	-2.32	119.74	124.48
31	05	314	LUT	C3-C4-C5	2.32	116.48	111.85
29	1S	313	CLA	C2A-C1A-CHA	-2.32	119.80	123.86
29	1B	605	CLA	C4-C3-C5	2.32	119.17	115.27
30	06	601	CHL	C2A-C1A-CHA	-2.32	119.80	123.86
35	1B	619	BCR	C2-C1-C6	2.32	114.05	110.48
29	1b	613	CLA	CAA-CBA-CGA	-2.32	106.48	113.25
35	04	313	BCR	C38-C26-C25	2.32	127.13	124.53
35	1k	102	BCR	C33-C5-C6	2.32	127.13	124.53
30	1S	309	CHL	O2D-CGD-O1D	-2.32	119.31	123.84
29	1B	613	CLA	CMC-C2C-C1C	2.32	128.57	125.04
30	01	306	CHL	O2D-CGD-O1D	-2.32	119.31	123.84
30	07	305	CHL	C2A-C1A-CHA	-2.32	119.81	123.85
29	05	308	CLA	CMA-C3A-C4A	-2.32	105.55	111.77
29	1B	614	CLA	CBC-CAC-C3C	-2.32	106.05	112.43
29	1d	406	CLA	C2D-C1D-ND	2.31	111.81	110.10
29	01	313	CLA	O2D-CGD-O1D	-2.31	119.31	123.84
29	1G	611	CLA	O2D-CGD-O1D	-2.31	118.83	124.09
30	08	305	CHL	CAA-C2A-C3A	-2.31	108.48	114.26
29	1C	513	CLA	CAC-C3C-C2C	2.31	131.49	127.53
29	1s	306	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
29	09	309	CLA	C2A-C1A-CHA	-2.31	119.82	123.85
35	1b	601	BCR	C7-C6-C5	2.31	127.06	121.46
29	1B	606	CLA	C2A-C1A-CHA	-2.31	119.82	123.86
31	09	314	LUT	C19-C9-C8	2.31	121.72	118.08
45	1E	103	HEM	C4A-NA-C1A	2.31	107.61	105.35
41	1c	517	SQD	O47-C45-C44	-2.31	100.03	108.40
29	1g	604	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
29	1R	311	CLA	O2D-CGD-O1D	-2.31	118.84	124.09
29	1r	311	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
29	1c	509	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
30	00	304	CHL	C2A-C1A-CHA	-2.31	119.82	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	01	315	LUT	C7-C6-C5	-2.31	115.87	121.46
35	1c	516	BCR	C24-C25-C26	2.31	127.06	121.46
29	1c	507	CLA	CMC-C2C-C1C	2.31	128.56	125.04
29	01	301	CLA	CAC-C3C-C4C	2.31	127.81	124.81
29	1R	310	CLA	C5-C3-C4	2.31	119.70	114.60
29	1d	406	CLA	C2A-C1A-CHA	-2.31	119.82	123.86
35	1a	409	BCR	C19-C18-C17	2.31	122.48	118.94
30	1G	601	CHL	C4D-CHA-C1A	-2.31	118.44	121.25
30	1n	606	CHL	O2D-CGD-O1D	-2.31	119.33	123.84
31	1S	318	LUT	C31-C30-C29	2.31	130.60	127.31
30	1S	307	CHL	C2A-C1A-CHA	-2.31	119.83	123.85
30	1s	304	CHL	CMD-C2D-C3D	-2.31	122.31	127.61
30	1G	609	CHL	O2D-CGD-O1D	-2.31	119.33	123.84
29	1a	406	CLA	CAC-C3C-C4C	2.31	127.80	124.81
30	1S	309	CHL	C1C-C2C-C3C	-2.30	105.28	107.11
30	09	305	CHL	CHB-C1B-NB	-2.30	121.82	124.26
30	08	301	CHL	CMA-C3A-C2A	-2.30	110.72	116.10
29	1b	611	CLA	O1D-CGD-CBD	-2.30	119.77	124.48
29	1C	502	CLA	C4-C3-C5	2.30	119.14	115.27
29	1R	308	CLA	C2D-C1D-ND	2.30	111.80	110.10
29	1g	602	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
29	04	309	CLA	C2A-C1A-CHA	-2.30	119.83	123.86
29	1N	314	CLA	O1D-CGD-CBD	-2.30	119.77	124.48
30	1N	310	CHL	C1-C2-C3	-2.30	122.06	126.04
35	1B	618	BCR	C34-C9-C8	2.30	121.70	118.08
31	03	313	LUT	C7-C6-C5	-2.30	115.90	121.46
29	00	302	CLA	C4-C3-C5	2.30	119.14	115.27
31	00	313	LUT	C11-C10-C9	2.30	130.59	127.31
29	1s	311	CLA	O2D-CGD-O1D	-2.30	119.35	123.84
29	05	312	CLA	CMA-C3A-C2A	-2.30	110.74	116.10
29	01	307	CLA	C2A-C1A-CHA	-2.30	119.84	123.86
29	01	309	CLA	CHB-C1B-C2B	-2.30	120.75	127.24
29	1n	602	CLA	C4-C3-C5	2.30	119.13	115.27
29	06	611	CLA	CMC-C2C-C1C	2.30	128.54	125.04
35	1b	601	BCR	C29-C30-C25	2.29	114.01	110.48
30	00	306	CHL	O2A-CGA-CBA	2.29	119.11	111.91
29	1C	509	CLA	C2D-C1D-ND	2.29	111.80	110.10
29	1C	504	CLA	O2A-CGA-CBA	2.29	119.11	111.91
30	1R	313	CHL	C4D-CHA-C1A	-2.29	118.46	121.25
29	1n	610	CLA	CHB-C1B-C2B	-2.29	120.76	127.24
29	1S	306	CLA	CMA-C3A-C2A	-2.29	110.75	116.10
29	1N	304	CLA	O2D-CGD-O1D	-2.29	119.36	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	00	301	CLA	O2D-CGD-O1D	-2.29	119.36	123.84
41	1d	411	SQD	O8-S-C6	-2.29	102.09	105.74
29	1B	603	CLA	C2A-C1A-CHA	-2.29	119.85	123.86
29	01	308	CLA	CBC-CAC-C3C	-2.29	106.11	112.43
29	1N	311	CLA	CMD-C2D-C3D	-2.29	122.34	127.61
35	1i	101	BCR	C38-C26-C25	2.29	127.10	124.53
46	1g	619	XAT	C8-C9-C10	-2.29	115.42	118.94
31	00	314	LUT	C32-C33-C34	2.29	122.46	118.94
29	1G	612	CLA	C4A-NA-C1A	2.29	107.74	106.71
31	07	313	LUT	C7-C6-C5	-2.29	115.91	121.46
30	1S	309	CHL	C2A-C1A-CHA	-2.29	119.86	123.85
41	1a	410	SQD	O8-S-C6	-2.29	102.09	105.74
29	1R	302	CLA	C1-C2-C3	-2.29	122.08	126.04
33	1C	526	LHG	O7-C5-C6	2.29	116.69	108.40
29	1B	610	CLA	C6-C5-C3	-2.29	107.45	113.45
30	01	304	CHL	C1-C2-C3	-2.29	122.09	126.04
35	1j	101	BCR	C33-C5-C6	2.29	127.10	124.53
29	1C	505	CLA	O1D-CGD-CBD	-2.29	119.80	124.48
29	1b	607	CLA	C2D-C1D-ND	2.29	111.79	110.10
29	09	309	CLA	CED-O2D-CGD	2.29	121.11	115.94
29	02	612	CLA	CMC-C2C-C1C	2.29	128.52	125.04
29	09	302	CLA	CBC-CAC-C3C	-2.28	106.13	112.43
29	07	301	CLA	CHC-C4B-NB	-2.28	121.84	124.26
29	00	303	CLA	O2A-CGA-CBA	2.28	119.08	111.91
34	1S	320	DGD	O1G-C1A-O1A	-2.28	117.83	123.59
31	1s	317	LUT	C39-C29-C28	2.28	121.67	118.08
29	1g	611	CLA	CMD-C2D-C3D	-2.28	122.36	127.61
29	01	301	CLA	C3B-C4B-NB	2.28	112.63	110.52
31	07	313	LUT	C8-C9-C10	2.28	122.44	118.94
35	1A	409	BCR	C8-C9-C10	2.28	122.44	118.94
30	02	604	CHL	C2A-C1A-CHA	-2.28	119.87	123.86
29	1B	616	CLA	CAA-CBA-CGA	-2.28	106.59	113.25
35	1H	101	BCR	C34-C9-C8	2.28	121.67	118.08
29	07	301	CLA	CMA-C3A-C2A	-2.28	110.78	116.10
35	1b	601	BCR	C24-C25-C26	-2.28	115.94	121.46
35	1D	406	BCR	C34-C9-C8	2.28	121.67	118.08
29	1b	605	CLA	C2A-C1A-CHA	-2.28	119.88	123.86
41	1b	622	SQD	O8-S-C6	-2.28	102.11	105.74
29	02	609	CLA	CAA-C2A-C3A	-2.28	108.57	114.26
29	07	301	CLA	C3B-C4B-NB	2.28	112.63	110.52
30	09	308	CHL	O2A-CGA-CBA	2.28	119.05	111.91
40	1a	412	PL9	C27-C28-C29	-2.28	122.18	127.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	1A	412	SQD	O8-S-C6	-2.28	102.11	105.74
29	02	614	CLA	C2A-C1A-CHA	-2.28	119.88	123.86
31	1g	616	LUT	C11-C10-C9	2.28	130.56	127.31
30	00	308	CHL	O2A-CGA-CBA	2.28	119.05	111.91
30	1S	308	CHL	C2A-C1A-CHA	-2.27	119.88	123.85
29	1R	306	CLA	O2D-CGD-O1D	-2.27	119.39	123.84
29	1B	610	CLA	CAA-CBA-CGA	-2.27	106.61	113.25
35	1Z	101	BCR	C24-C25-C26	2.27	126.97	121.46
29	1D	401	CLA	C1-C2-C3	-2.27	122.11	126.04
29	1R	302	CLA	C2A-C1A-CHA	-2.27	119.88	123.86
35	1B	619	BCR	C29-C30-C25	2.27	113.98	110.48
29	1C	505	CLA	O2A-CGA-CBA	2.27	119.04	111.91
30	01	303	CHL	O2D-CGD-O1D	-2.27	119.40	123.84
35	1Z	101	BCR	C33-C5-C6	2.27	127.08	124.53
29	03	312	CLA	O2D-CGD-O1D	-2.27	118.93	124.09
29	05	301	CLA	O2D-CGD-O1D	-2.27	119.40	123.84
41	1D	411	SQD	O6-C1-C2	2.27	111.85	108.30
31	1s	318	LUT	C3-C4-C5	2.27	116.37	111.85
29	1N	313	CLA	C4A-NA-C1A	2.27	107.73	106.71
29	1b	608	CLA	C4A-NA-C1A	2.27	107.73	106.71
30	1n	609	CHL	C4D-CHA-C1A	-2.27	118.49	121.25
29	03	306	CLA	C3A-C4A-CHB	-2.27	118.03	124.01
29	1s	311	CLA	C2A-C1A-CHA	-2.27	119.89	123.86
29	1N	314	CLA	CMC-C2C-C1C	2.27	128.49	125.04
29	1n	614	CLA	C2A-C1A-CHA	-2.27	119.89	123.85
30	1G	601	CHL	C2A-C1A-CHA	-2.27	119.89	123.86
30	05	305	CHL	CED-O2D-CGD	2.27	121.06	115.94
35	1b	619	BCR	C7-C6-C5	2.27	126.95	121.46
29	1G	603	CLA	CBC-CAC-C3C	-2.27	106.19	112.43
29	1G	610	CLA	CMB-C2B-C3B	2.26	132.07	126.59
31	1s	317	LUT	C1-C6-C5	-2.26	119.42	122.61
30	08	301	CHL	O2D-CGD-O1D	-2.26	118.95	124.09
30	09	307	CHL	C2A-C1A-CHA	-2.26	119.90	123.86
35	1d	409	BCR	C1-C6-C5	-2.26	119.42	122.61
30	1r	313	CHL	C2A-C1A-CHA	-2.26	119.90	123.86
29	1b	603	CLA	O2D-CGD-O1D	-2.26	119.41	123.84
35	1b	619	BCR	C15-C16-C17	2.26	128.11	123.47
30	1G	606	CHL	C4D-CHA-C1A	-2.26	118.50	121.25
30	06	603	CHL	O2D-CGD-O1D	-2.26	118.95	124.09
29	1D	401	CLA	CMB-C2B-C1B	2.26	128.81	125.37
29	1c	509	CLA	CMC-C2C-C1C	2.26	128.48	125.04
30	1s	304	CHL	CHB-C1B-C2B	-2.26	120.85	127.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	609	CLA	CMC-C2C-C1C	2.26	128.48	125.04
29	1b	610	CLA	CMC-C2C-C1C	2.26	128.48	125.04
29	08	308	CLA	C2A-C1A-CHA	-2.26	119.91	123.86
30	1s	308	CHL	C4D-CHA-C1A	-2.26	118.50	121.25
29	1C	501	CLA	C2A-C1A-CHA	-2.26	119.91	123.86
32	09	315	VIV	O1-C9-C14	2.26	110.70	105.30
29	1S	310	CLA	O2D-CGD-O1D	-2.26	119.42	123.84
29	1S	306	CLA	CHC-C4B-NB	-2.26	121.87	124.26
29	1r	302	CLA	CAA-C2A-C3A	-2.26	110.83	116.10
29	1r	309	CLA	O2A-CGA-O1A	-2.26	117.89	123.59
29	1b	611	CLA	CMB-C2B-C3B	2.26	132.06	126.59
29	1B	607	CLA	CMD-C2D-C3D	-2.26	122.42	127.61
46	1g	617	XAT	C12-C13-C14	2.26	122.40	118.94
29	1b	615	CLA	O2D-CGD-O1D	-2.26	119.43	123.84
30	04	305	CHL	CAA-C2A-C3A	-2.25	108.62	114.26
30	1N	310	CHL	CMB-C2B-C1B	2.25	128.80	125.37
34	1c	519	DGD	C2G-O2G-C1B	-2.25	112.24	117.79
29	1N	304	CLA	O2A-CGA-CBA	2.25	121.27	114.03
29	1s	307	CLA	O2D-CGD-O1D	-2.25	119.43	123.84
29	08	309	CLA	C2D-C1D-ND	2.25	111.76	110.10
29	1B	605	CLA	C2D-C1D-ND	2.25	111.76	110.10
30	1g	601	CHL	O2D-CGD-O1D	-2.25	119.43	123.84
30	02	605	CHL	CMD-C2D-C3D	-2.25	122.43	127.61
30	08	304	CHL	O2D-CGD-O1D	-2.25	118.98	124.09
29	03	312	CLA	C4A-NA-C1A	2.25	107.72	106.71
29	00	309	CLA	CMB-C2B-C1B	2.25	128.80	125.37
29	1G	602	CLA	O2D-CGD-O1D	-2.25	119.44	123.84
29	1a	405	CLA	CHB-C1B-NB	-2.25	121.88	124.26
30	09	305	CHL	O2D-CGD-O1D	-2.25	119.44	123.84
29	1B	616	CLA	C4D-C3D-CAD	2.25	110.75	108.10
29	01	307	CLA	O2A-CGA-O1A	-2.25	117.92	123.59
29	00	303	CLA	CHB-C1B-NB	-2.25	121.88	124.26
30	1n	607	CHL	C4-C3-C5	2.25	119.05	115.27
29	1R	306	CLA	C2A-C1A-CHA	-2.25	119.93	123.86
29	1d	407	CLA	C4A-NA-C1A	2.25	107.72	106.71
30	1s	304	CHL	CHB-C1B-NB	-2.25	121.88	124.26
29	1R	307	CLA	CAA-C2A-C3A	-2.25	110.86	116.10
29	1c	503	CLA	CMB-C2B-C1B	2.25	128.79	125.37
38	1A	405	PHO	C1C-C2C-C3C	-2.25	106.74	108.61
38	1A	406	PHO	C1C-C2C-C3C	-2.25	106.74	108.61
29	04	310	CLA	C2A-C1A-CHA	-2.25	119.93	123.86
30	08	305	CHL	C2A-C1A-CHA	-2.25	119.93	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	06	607	CLA	O2D-CGD-O1D	-2.25	118.99	124.09
29	00	303	CLA	C2A-C1A-CHA	-2.24	119.93	123.86
29	02	613	CLA	C4A-NA-C1A	2.24	107.72	106.71
29	1s	305	CLA	C3B-C4B-NB	2.24	112.60	110.52
41	1d	405	SQD	O8-S-C6	-2.24	102.16	105.74
29	1S	310	CLA	CHB-C1B-C2B	-2.24	120.90	127.24
29	08	312	CLA	O1D-CGD-CBD	-2.24	119.89	124.48
35	1b	601	BCR	C34-C9-C8	2.24	121.61	118.08
30	1r	306	CHL	C2A-C1A-CHA	-2.24	119.94	123.86
41	1c	517	SQD	O47-C7-O49	-2.24	118.28	123.70
29	1a	405	CLA	C3B-C4B-NB	2.24	112.59	110.52
30	1S	304	CHL	O2D-CGD-O1D	-2.24	119.45	123.84
30	02	605	CHL	C4D-CHA-C1A	-2.24	118.52	121.25
29	1G	602	CLA	C4-C3-C5	2.24	119.04	115.27
31	1g	615	LUT	C19-C9-C8	2.24	121.61	118.08
30	04	304	CHL	O1D-CGD-CBD	-2.24	119.90	124.48
29	1n	610	CLA	C1D-CHD-C4C	-2.24	121.22	126.06
29	1b	617	CLA	C2A-C1A-CHA	-2.24	119.94	123.86
30	05	315	CHL	C2A-C1A-CHA	-2.24	119.94	123.85
29	06	609	CLA	CAA-C2A-C3A	-2.24	108.66	114.26
30	1N	309	CHL	CHB-C1B-C2B	-2.24	120.91	127.24
29	1C	513	CLA	CED-O2D-CGD	2.24	121.00	115.94
31	00	313	LUT	C31-C30-C29	2.24	130.50	127.31
29	1b	606	CLA	CMC-C2C-C1C	2.24	128.45	125.04
29	1D	401	CLA	O2D-CGD-O1D	-2.24	119.46	123.84
29	1g	602	CLA	CMB-C2B-C1B	2.24	128.78	125.37
29	1R	307	CLA	O2D-CGD-O1D	-2.24	119.01	124.09
29	1c	514	CLA	CMD-C2D-C3D	-2.24	122.47	127.61
41	1D	411	SQD	C1-O5-C5	2.24	118.08	113.69
29	1c	513	CLA	CED-O2D-CGD	2.24	121.00	115.94
29	1C	504	CLA	O2D-CGD-O1D	-2.24	119.47	123.84
30	1n	601	CHL	C6-C5-C3	-2.24	107.59	113.45
35	04	313	BCR	C12-C13-C14	2.24	122.37	118.94
30	1G	607	CHL	CMA-C3A-C4A	-2.23	105.77	111.77
30	02	604	CHL	O2D-CGD-O1D	-2.23	119.01	124.09
29	08	312	CLA	C2A-C1A-CHA	-2.23	119.95	123.86
29	09	317	CLA	C2A-C1A-CHA	-2.23	119.95	123.86
29	1n	613	CLA	C2A-C1A-CHA	-2.23	119.95	123.86
30	1N	306	CHL	C4D-CHA-C1A	-2.23	118.53	121.25
31	1N	316	LUT	C1-C6-C5	-2.23	119.47	122.61
29	1g	603	CLA	C4A-NA-C1A	2.23	107.71	106.71
29	00	302	CLA	C4-C3-C2	-2.23	117.95	123.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	1B	618	BCR	C1-C6-C5	-2.23	119.47	122.61
29	08	311	CLA	O2D-CGD-O1D	-2.23	119.02	124.09
30	05	313	CHL	C2A-C1A-CHA	-2.23	119.96	123.85
30	1S	304	CHL	C2A-C1A-CHA	-2.23	119.96	123.86
29	1B	604	CLA	CMC-C2C-C1C	2.23	128.44	125.04
29	1b	607	CLA	O2A-CGA-O1A	-2.23	117.96	123.59
29	1n	613	CLA	C2D-C1D-ND	2.23	111.75	110.10
45	1f	101	HEM	C4D-ND-C1D	2.23	107.38	105.07
29	1D	402	CLA	C5-C3-C4	2.23	119.53	114.60
30	1n	609	CHL	O2D-CGD-O1D	-2.23	119.48	123.84
30	01	304	CHL	C1C-C2C-C3C	-2.23	105.34	107.11
30	09	305	CHL	C2A-C1A-CHA	-2.23	119.96	123.86
46	1G	617	XAT	C18-C5-C4	2.23	116.79	114.28
38	1d	404	PHO	CMB-C2B-C3B	2.23	128.85	124.68
35	1b	601	BCR	C1-C6-C5	-2.23	119.48	122.61
31	1S	318	LUT	C35-C15-C14	2.23	128.03	123.47
30	02	606	CHL	O2D-CGD-O1D	-2.23	119.04	124.09
29	1R	311	CLA	C2A-C1A-CHA	-2.23	119.97	123.86
29	08	310	CLA	CMC-C2C-C1C	2.22	128.43	125.04
30	06	606	CHL	C2A-C1A-CHA	-2.22	119.97	123.86
30	04	303	CHL	C2A-C1A-CHA	-2.22	119.97	123.86
29	1c	508	CLA	O2D-CGD-O1D	-2.22	119.49	123.84
29	02	610	CLA	O2D-CGD-O1D	-2.22	119.04	124.09
30	01	303	CHL	C2A-C1A-CHA	-2.22	119.97	123.86
31	09	314	LUT	C12-C13-C14	2.22	122.35	118.94
31	1s	317	LUT	C7-C6-C5	-2.22	116.08	121.46
31	1g	615	LUT	C40-C33-C34	-2.22	119.81	122.92
30	1G	609	CHL	C4D-CHA-C1A	-2.22	118.55	121.25
31	1g	616	LUT	C7-C6-C5	-2.22	116.08	121.46
29	05	310	CLA	O2D-CGD-O1D	-2.22	119.05	124.09
29	1r	309	CLA	CHB-C1B-NB	-2.22	121.91	124.26
29	1a	406	CLA	C2A-C1A-CHA	-2.22	119.98	123.86
29	1b	615	CLA	CMB-C2B-C3B	2.22	131.97	126.59
29	1b	606	CLA	C4C-C3C-C2C	-2.22	103.66	106.90
30	1s	304	CHL	C2A-C1A-CHA	-2.22	119.98	123.86
29	1n	610	CLA	CMC-C2C-C1C	2.22	128.42	125.04
29	1D	404	CLA	O2D-CGD-O1D	-2.22	119.50	123.84
30	1S	304	CHL	CHB-C1B-C2B	-2.22	120.97	127.24
30	1r	305	CHL	O1D-CGD-CBD	-2.22	119.94	124.48
29	1S	305	CLA	O2D-CGD-O1D	-2.22	119.50	123.84
47	1X	101	3PH	O13-P-O11	-2.22	100.83	106.73
29	04	309	CLA	C2D-C1D-ND	2.22	111.74	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1a	405	CLA	O2A-C1-C2	2.22	114.46	108.64
34	1c	518	DGD	O1G-C1A-O1A	-2.22	118.00	123.59
30	1G	605	CHL	O2D-CGD-O1D	-2.22	119.06	124.09
29	1B	606	CLA	CMB-C2B-C3B	2.22	131.96	126.59
29	1s	313	CLA	O2D-CGD-O1D	-2.22	119.51	123.84
30	02	605	CHL	O2D-CGD-O1D	-2.22	119.06	124.09
46	1g	619	XAT	O23-C23-C22	2.22	114.20	109.80
30	00	304	CHL	O2D-CGD-O1D	-2.21	119.06	124.09
30	02	605	CHL	C2A-C1A-CHA	-2.21	119.99	123.86
30	1G	606	CHL	C2A-C1A-CHA	-2.21	119.99	123.86
35	1H	101	BCR	C12-C13-C14	2.21	122.34	118.94
29	1c	507	CLA	C4D-C3D-CAD	2.21	110.70	108.10
29	1s	313	CLA	CMB-C2B-C1B	2.21	128.74	125.37
34	1B	627	DGD	C2G-O2G-C1B	-2.21	112.34	117.79
29	1R	312	CLA	CED-O2D-CGD	2.21	120.94	115.94
30	1R	304	CHL	C4D-CHA-C1A	-2.21	118.56	121.25
46	1R	316	XAT	C28-C29-C30	2.21	122.33	118.94
29	1B	610	CLA	C11-C12-C13	-2.21	108.77	115.92
29	1S	313	CLA	CHC-C4B-NB	-2.21	121.92	124.26
35	1c	516	BCR	C12-C13-C14	2.21	122.33	118.94
35	1H	101	BCR	C7-C6-C5	2.21	126.82	121.46
30	1S	307	CHL	O2D-CGD-O1D	-2.21	119.07	124.09
29	04	314	CLA	C2D-C1D-ND	2.21	111.73	110.10
29	01	312	CLA	C2A-C1A-CHA	-2.21	120.00	123.86
30	06	605	CHL	O2D-CGD-O1D	-2.21	119.07	124.09
30	1n	607	CHL	C1C-C2C-C3C	-2.21	105.36	107.11
30	1n	601	CHL	O2D-CGD-O1D	-2.21	119.52	123.84
29	1C	510	CLA	CMB-C2B-C1B	2.21	128.73	125.37
29	1S	316	CLA	C2A-C1A-CHA	-2.21	120.00	123.86
29	00	312	CLA	C2A-C1A-CHA	-2.21	120.00	123.86
30	1G	601	CHL	O2A-CGA-O1A	-2.21	118.02	123.59
29	1D	402	CLA	C4A-NA-C1A	2.21	107.70	106.71
41	1l	101	SQD	O8-S-C6	-2.21	102.22	105.74
30	05	304	CHL	O2D-CGD-O1D	-2.21	119.08	124.09
31	1G	615	LUT	C11-C10-C9	2.21	130.46	127.31
29	1b	608	CLA	C4-C3-C5	2.21	118.98	115.27
30	09	304	CHL	C2A-C1A-CHA	-2.21	120.00	123.85
29	00	311	CLA	CAC-C3C-C4C	2.21	127.67	124.81
35	1J	101	BCR	C19-C18-C17	2.20	122.32	118.94
29	07	307	CLA	C4A-NA-C1A	2.20	107.70	106.71
29	01	309	CLA	O2D-CGD-O1D	-2.20	119.53	123.84
29	1b	612	CLA	CMB-C2B-C1B	2.20	128.72	125.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1R	303	CHL	O2D-CGD-O1D	-2.20	119.09	124.09
29	1B	606	CLA	O2D-CGD-O1D	-2.20	119.53	123.84
29	1b	609	CLA	C2A-C1A-CHA	-2.20	120.01	123.86
29	08	307	CLA	C2A-C1A-CHA	-2.20	120.01	123.85
46	1g	617	XAT	C7-C8-C9	-2.20	122.11	125.53
29	1B	609	CLA	CHB-C1B-C2B	-2.20	121.02	127.24
35	1D	406	BCR	C37-C22-C23	2.20	121.54	118.08
29	01	311	CLA	CMC-C2C-C1C	2.20	128.39	125.04
29	07	308	CLA	C2A-C1A-CHA	-2.20	120.01	123.85
30	1R	303	CHL	CMB-C2B-C3B	2.20	131.92	126.59
29	08	309	CLA	C2A-C1A-CHA	-2.20	120.02	123.85
29	1C	506	CLA	O2D-CGD-O1D	-2.20	119.54	123.84
29	1g	611	CLA	C4A-NA-C1A	2.20	107.69	106.71
29	07	301	CLA	O2D-CGD-O1D	-2.20	119.10	124.09
29	1G	613	CLA	O2D-CGD-O1D	-2.20	119.10	124.09
30	1g	601	CHL	CHC-C4B-NB	-2.20	121.93	124.26
29	06	608	CLA	O2D-CGD-O1D	-2.19	119.11	124.09
29	1c	505	CLA	O2D-CGD-O1D	-2.19	119.55	123.84
29	1D	401	CLA	C4-C3-C5	2.19	118.96	115.27
29	09	301	CLA	CMD-C2D-C3D	-2.19	122.57	127.61
29	09	301	CLA	O2D-CGD-O1D	-2.19	119.55	123.84
30	1R	313	CHL	O2D-CGD-O1D	-2.19	119.11	124.09
29	1D	402	CLA	CMC-C2C-C1C	2.19	128.38	125.04
30	04	301	CHL	O2A-CGA-CBA	2.19	121.07	114.03
29	1B	603	CLA	CED-O2D-CGD	2.19	120.90	115.94
30	07	304	CHL	O2D-CGD-O1D	-2.19	119.11	124.09
29	1r	314	CLA	O1D-CGD-CBD	-2.19	120.00	124.48
29	1G	603	CLA	O2A-CGA-CBA	2.19	121.07	114.03
41	1C	521	SQD	O8-S-C6	-2.19	102.25	105.74
29	1S	315	CLA	O2D-CGD-O1D	-2.19	119.11	124.09
31	1N	316	LUT	C32-C33-C34	2.19	122.30	118.94
30	1n	606	CHL	C2A-C1A-CHA	-2.19	120.03	123.86
29	06	610	CLA	O2D-CGD-O1D	-2.19	119.12	124.09
29	05	312	CLA	CHB-C1B-C2B	-2.19	121.05	127.24
29	1n	610	CLA	CGD-CBD-CAD	2.19	117.82	110.73
29	02	611	CLA	O2D-CGD-O1D	-2.19	119.12	124.09
29	1G	612	CLA	C2A-C1A-CHA	-2.19	120.03	123.86
29	06	609	CLA	O2D-CGD-O1D	-2.19	119.12	124.09
30	1g	606	CHL	C4D-CHA-C1A	-2.19	118.59	121.25
29	1s	306	CLA	CMB-C2B-C1B	2.19	128.70	125.37
35	1Z	102	BCR	C1-C6-C5	-2.19	119.53	122.61
29	1C	507	CLA	CHB-C1B-C2B	-2.19	121.06	127.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1N	303	CLA	O2D-CGD-O1D	-2.19	119.56	123.84
29	1d	406	CLA	CMB-C2B-C1B	2.19	128.70	125.37
30	04	301	CHL	CMB-C2B-C1B	2.19	128.70	125.37
29	1G	604	CLA	C2A-C1A-CHA	-2.19	120.04	123.85
29	1S	315	CLA	CMB-C2B-C1B	2.19	128.70	125.37
30	01	302	CHL	C4D-CHA-C1A	-2.19	118.59	121.25
30	1s	304	CHL	O2D-CGD-O1D	-2.19	119.56	123.84
35	1b	601	BCR	C2-C1-C6	2.19	113.84	110.48
29	1b	604	CLA	O2A-CGA-O1A	-2.19	118.08	123.59
29	1c	507	CLA	C3B-C4B-NB	2.18	112.54	110.52
30	09	307	CHL	CHC-C4B-NB	-2.18	121.94	124.26
29	1N	313	CLA	O2D-CGD-O1D	-2.18	119.13	124.09
30	1R	305	CHL	O2D-CGD-O1D	-2.18	119.13	124.09
30	05	305	CHL	C1-C2-C3	-2.18	122.27	126.04
29	1r	309	CLA	O2D-CGD-O1D	-2.18	119.57	123.84
29	06	608	CLA	C2A-C1A-CHA	-2.18	120.04	123.85
29	02	614	CLA	O2D-CGD-O1D	-2.18	119.13	124.09
29	1r	311	CLA	C4A-NA-C1A	2.18	107.69	106.71
30	1N	308	CHL	C2A-C1A-CHA	-2.18	120.04	123.86
29	06	602	CLA	CMC-C2C-C1C	2.18	128.36	125.04
29	1C	505	CLA	C4D-C3D-CAD	2.18	110.67	108.10
29	01	313	CLA	C2A-C1A-CHA	-2.18	120.05	123.86
31	01	315	LUT	C20-C13-C14	-2.18	119.87	122.92
30	07	311	CHL	C2A-C1A-CHA	-2.18	120.05	123.85
30	1R	313	CHL	CMB-C2B-C1B	2.18	128.69	125.37
31	1n	615	LUT	C31-C30-C29	2.18	130.42	127.31
31	1s	318	LUT	C40-C33-C34	-2.18	119.87	122.92
29	1c	504	CLA	C6-C5-C3	-2.18	107.74	113.45
29	1s	314	CLA	O2D-CGD-O1D	-2.18	119.14	124.09
30	04	301	CHL	C2A-C1A-CHA	-2.18	120.05	123.86
30	02	607	CHL	O2D-CGD-O1D	-2.18	119.58	123.84
30	02	603	CHL	C2A-C1A-CHA	-2.18	120.05	123.86
29	00	311	CLA	CMC-C2C-C1C	2.18	128.35	125.04
32	00	315	VIV	C12-C5-C4	-2.18	117.95	121.30
38	1a	407	PHO	CMB-C2B-C3B	2.18	128.75	124.68
30	01	303	CHL	C4D-CHA-C1A	-2.18	118.60	121.25
30	01	303	CHL	CHC-C4B-NB	-2.18	121.95	124.26
35	1j	101	BCR	C24-C25-C26	-2.17	116.19	121.46
34	1S	320	DGD	C2G-O2G-C1B	-2.17	112.44	117.79
30	03	305	CHL	O2D-CGD-O1D	-2.17	119.59	123.84
29	1R	310	CLA	CMC-C2C-C1C	2.17	128.35	125.04
29	1n	603	CLA	O2A-CGA-CBA	2.17	118.73	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1n	607	CHL	CED-O2D-CGD	2.17	120.85	115.94
29	1s	307	CLA	O1D-CGD-CBD	-2.17	120.04	124.48
30	01	302	CHL	C2A-C1A-CHA	-2.17	120.06	123.86
29	1B	605	CLA	C4A-NA-C1A	2.17	107.68	106.71
30	1g	609	CHL	C1-O2A-CGA	2.17	122.14	116.44
31	09	314	LUT	C32-C33-C34	2.17	122.28	118.94
29	1b	608	CLA	C2D-C1D-ND	2.17	111.70	110.10
30	1s	310	CHL	C2A-C1A-CHA	-2.17	120.06	123.86
35	1I	102	BCR	C38-C26-C25	2.17	126.97	124.53
30	1n	607	CHL	CAA-C2A-C3A	-2.17	106.83	112.78
30	1N	302	CHL	C4-C3-C5	2.17	118.92	115.27
30	03	311	CHL	O2D-CGD-O1D	-2.17	119.59	123.84
30	09	308	CHL	O2D-CGD-O1D	-2.17	119.59	123.84
40	1a	412	PL9	C35-C34-C33	-2.17	118.11	123.68
29	1B	602	CLA	C2A-C1A-CHA	-2.17	120.06	123.86
30	02	601	CHL	C2A-C1A-CHA	-2.17	120.07	123.86
34	1c	519	DGD	O2G-C1B-O1B	-2.17	118.46	123.70
40	1r	301	PL9	C7-C3-C2	-2.17	120.45	123.30
29	1c	515	CLA	O2D-CGD-O1D	-2.17	119.60	123.84
29	02	602	CLA	O2D-CGD-O1D	-2.17	119.17	124.09
31	05	314	LUT	C18-C5-C4	-2.17	110.34	114.36
30	1r	306	CHL	C4D-CHA-C1A	-2.17	118.61	121.25
29	02	608	CLA	O2D-CGD-O1D	-2.17	119.17	124.09
35	1B	617	BCR	C8-C9-C10	2.17	122.27	118.94
29	1r	308	CLA	O2D-CGD-O1D	-2.17	119.60	123.84
29	1d	403	CLA	CHD-C4C-NC	2.17	127.62	124.20
29	06	602	CLA	O2A-CGA-O1A	-2.17	118.12	123.59
35	1k	102	BCR	C15-C14-C13	2.17	130.40	127.31
29	1g	604	CLA	CHB-C1B-NB	-2.17	121.96	124.26
30	1s	308	CHL	C2A-C1A-CHA	-2.17	120.07	123.86
35	1Z	102	BCR	C24-C25-C26	2.17	126.71	121.46
29	1c	507	CLA	O2A-CGA-CBA	2.17	118.70	111.91
29	04	312	CLA	C4A-NA-C1A	2.16	107.68	106.71
30	1g	608	CHL	C2A-C1A-CHA	-2.16	120.08	123.86
29	1C	508	CLA	C6-C5-C3	-2.16	107.78	113.45
30	1g	608	CHL	CAA-C2A-C3A	-2.16	108.85	114.26
38	1d	404	PHO	C1C-C2C-C3C	-2.16	106.81	108.61
30	08	304	CHL	C4D-CHA-C1A	-2.16	118.62	121.25
35	1b	618	BCR	C30-C25-C24	-2.16	109.66	115.78
35	1I	102	BCR	C1-C6-C5	-2.16	119.57	122.61
29	1R	312	CLA	C2A-C1A-CHA	-2.16	120.08	123.86
29	1B	602	CLA	O2A-CGA-O1A	-2.16	118.14	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	311	CLA	C4A-NA-C1A	2.16	107.68	106.71
29	03	309	CLA	O2D-CGD-O1D	-2.16	119.19	124.09
29	1c	515	CLA	C2A-C1A-CHA	-2.16	120.08	123.86
30	06	604	CHL	O2D-CGD-O1D	-2.16	119.19	124.09
29	03	306	CLA	C2A-C1A-CHA	-2.16	119.37	122.71
30	01	304	CHL	CED-O2D-CGD	2.16	120.82	115.94
29	1N	305	CLA	CMC-C2C-C1C	2.16	128.33	125.04
30	1N	307	CHL	C2A-C1A-CHA	-2.16	120.08	123.86
30	1r	307	CHL	O2D-CGD-O1D	-2.16	119.62	123.84
30	1g	607	CHL	CMD-C2D-C3D	-2.16	122.65	127.61
29	1b	609	CLA	O2A-CGA-O1A	-2.16	118.15	123.59
29	1C	512	CLA	CMC-C2C-C1C	2.16	128.32	125.04
30	05	304	CHL	C2A-C1A-CHA	-2.16	120.09	123.86
29	1c	512	CLA	O2D-CGD-O1D	-2.16	119.62	123.84
29	07	307	CLA	O2D-CGD-O1D	-2.16	119.19	124.09
34	1C	517	DGD	O1G-C1A-O1A	-2.16	118.15	123.59
29	1r	312	CLA	CED-O2D-CGD	2.16	120.81	115.94
29	05	302	CLA	O2D-CGD-O1D	-2.16	119.19	124.09
29	1N	312	CLA	C2A-C1A-CHA	-2.15	120.09	123.85
30	1r	305	CHL	C4D-CHA-C1A	-2.15	118.63	121.25
29	1n	610	CLA	O1D-CGD-CBD	-2.15	120.08	124.48
29	1b	608	CLA	C2A-C1A-CHA	-2.15	120.09	123.86
29	1a	408	CLA	CMD-C2D-C3D	-2.15	122.66	127.61
29	03	307	CLA	O2D-CGD-O1D	-2.15	119.20	124.09
30	08	302	CHL	O2D-CGD-O1D	-2.15	119.20	124.09
29	00	302	CLA	O1D-CGD-CBD	-2.15	120.08	124.48
30	1g	609	CHL	C1-C2-C3	-2.15	122.32	126.04
46	1g	619	XAT	C24-C23-C22	-2.15	106.62	110.77
29	1D	402	CLA	CED-O2D-CGD	2.15	120.80	115.94
29	1c	506	CLA	CMD-C2D-C3D	-2.15	122.66	127.61
29	04	307	CLA	C2A-C1A-CHA	-2.15	120.10	123.86
31	1g	615	LUT	C32-C33-C34	2.15	122.24	118.94
31	05	314	LUT	C18-C5-C6	2.15	126.94	124.53
29	1b	607	CLA	C5-C3-C4	2.15	119.35	114.60
30	05	313	CHL	O2D-CGD-O1D	-2.15	119.21	124.09
30	1n	601	CHL	O2A-CGA-CBA	2.15	118.65	111.91
29	1S	310	CLA	CAA-C2A-C3A	-2.15	111.08	116.10
29	1B	602	CLA	CHB-C1B-C2B	-2.15	121.17	127.24
30	1R	304	CHL	O2D-CGD-O1D	-2.15	119.21	124.09
46	1G	617	XAT	C20-C13-C14	-2.15	119.91	122.92
30	07	303	CHL	O2D-CGD-O1D	-2.15	119.21	124.09
29	1b	613	CLA	C4-C3-C2	-2.15	118.17	123.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1B	613	CLA	O2D-CGD-O1D	-2.15	119.64	123.84
29	1G	603	CLA	O2D-CGD-O1D	-2.15	119.64	123.84
30	07	304	CHL	C4D-CHA-C1A	-2.15	118.64	121.25
31	1S	318	LUT	C11-C10-C9	2.15	130.37	127.31
31	1r	315	LUT	C35-C15-C14	2.15	127.87	123.47
29	1C	509	CLA	CMB-C2B-C3B	2.15	131.78	126.59
34	1c	518	DGD	C3G-C2G-C1G	-2.15	106.71	111.79
29	05	308	CLA	C2A-C1A-CHA	-2.15	120.11	123.85
29	1B	610	CLA	C1-C2-C3	-2.14	122.33	126.04
30	07	306	CHL	O2D-CGD-O1D	-2.14	119.22	124.09
30	02	607	CHL	C2A-C1A-CHA	-2.14	120.11	123.86
29	06	610	CLA	C2A-C1A-CHA	-2.14	120.11	123.86
30	04	305	CHL	O2D-CGD-O1D	-2.14	119.22	124.09
29	1b	603	CLA	C4D-CHA-C1A	-2.14	118.64	121.25
46	1g	617	XAT	O24-C25-C26	-2.14	57.19	58.96
29	1S	305	CLA	CMD-C2D-C3D	-2.14	122.69	127.61
31	03	313	LUT	C12-C13-C14	2.14	122.23	118.94
38	1A	406	PHO	CMB-C2B-C3B	2.14	128.68	124.68
29	00	312	CLA	O2D-CGD-O1D	-2.14	119.65	123.84
29	04	307	CLA	O2D-CGD-O1D	-2.14	119.23	124.09
29	04	311	CLA	O2D-CGD-O1D	-2.14	119.23	124.09
30	1N	302	CHL	OMC-CMC-C2C	-2.14	120.85	125.69
29	00	302	CLA	O2A-CGA-CBA	2.14	118.62	111.91
31	1S	318	LUT	C12-C13-C14	2.14	122.22	118.94
29	1B	612	CLA	CMB-C2B-C3B	2.14	131.77	126.59
29	1R	309	CLA	CMC-C2C-C1C	2.14	128.29	125.04
29	1R	308	CLA	O2D-CGD-O1D	-2.14	119.66	123.84
30	05	315	CHL	O1D-CGD-CBD	-2.14	120.11	124.48
29	06	611	CLA	C2A-C1A-CHA	-2.14	120.12	123.85
29	1B	605	CLA	O2D-CGD-O1D	-2.14	119.66	123.84
35	1Z	102	BCR	C2-C1-C6	2.14	113.77	110.48
29	08	311	CLA	CMC-C2C-C1C	2.14	128.29	125.04
31	01	314	LUT	C35-C34-C33	2.14	130.36	127.31
29	00	303	CLA	C5-C3-C4	2.14	119.32	114.60
38	1a	407	PHO	C1C-C2C-C3C	-2.13	106.83	108.61
29	1B	602	CLA	O1D-CGD-CBD	-2.13	120.12	124.48
29	1N	314	CLA	C2D-C1D-ND	2.13	111.68	110.10
30	1g	605	CHL	C2A-C1A-CHA	-2.13	120.13	123.86
29	1r	304	CLA	O2A-CGA-CBA	2.13	120.66	112.23
29	02	613	CLA	O2D-CGD-O1D	-2.13	119.67	123.84
29	04	308	CLA	CMA-C3A-C2A	-2.13	111.12	116.10
29	04	310	CLA	CMC-C2C-C1C	2.13	128.28	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	1n	608	CHL	C2A-C1A-CHA	-2.13	120.13	123.86
29	07	302	CLA	C3D-C4D-CHA	-2.13	107.85	112.72
29	1g	604	CLA	C5-C3-C4	2.13	119.31	114.60
29	04	308	CLA	O2D-CGD-O1D	-2.13	119.25	124.09
40	1a	412	PL9	C51-C49-C50	2.13	119.31	114.60
29	04	310	CLA	O2D-CGD-O1D	-2.13	119.25	124.09
29	08	311	CLA	CAA-C2A-C3A	-2.13	111.13	116.10
29	1c	505	CLA	C11-C12-C13	-2.13	109.03	115.92
29	1b	605	CLA	CAA-C2A-C3A	-2.13	108.94	114.26
29	1D	404	CLA	OBD-CAD-C3D	-2.13	123.39	128.52
29	00	303	CLA	CMC-C2C-C1C	2.13	128.28	125.04
29	1s	312	CLA	O2A-CGA-O1A	-2.13	118.22	123.59
31	09	314	LUT	C31-C30-C29	2.13	130.35	127.31
29	1G	604	CLA	CMA-C3A-C2A	-2.13	111.13	116.10
29	1c	514	CLA	CMB-C2B-C1B	2.13	128.61	125.37
29	1b	604	CLA	CHB-C1B-C2B	-2.13	121.23	127.24
30	00	305	CHL	O2D-CGD-O1D	-2.13	119.68	123.84
46	1G	617	XAT	C19-C9-C10	-2.13	119.94	122.92
30	03	311	CHL	C4D-CHA-C1A	-2.13	118.66	121.25
29	1g	612	CLA	O1D-CGD-CBD	-2.13	120.13	124.48
30	05	307	CHL	CMA-C3A-C2A	-2.13	111.14	116.10
29	05	303	CLA	O2D-CGD-O1D	-2.13	119.26	124.09
29	03	308	CLA	CED-O2D-CGD	2.13	120.75	115.94
30	09	305	CHL	CHC-C4B-NB	-2.13	122.01	124.26
29	08	306	CLA	O2D-CGD-O1D	-2.13	119.26	124.09
35	1c	516	BCR	C23-C22-C21	2.13	122.20	118.94
30	1g	605	CHL	OMC-CMC-C2C	-2.13	120.88	125.69
29	1B	603	CLA	CMC-C2C-C1C	2.12	128.28	125.04
29	02	612	CLA	O2D-CGD-O1D	-2.12	119.26	124.09
29	1c	508	CLA	CHB-C1B-C2B	-2.12	121.24	127.24
29	08	310	CLA	C2A-C1A-CHA	-2.12	120.15	123.85
31	1G	616	LUT	C7-C6-C5	-2.12	116.32	121.46
29	08	307	CLA	O2D-CGD-O1D	-2.12	119.27	124.09
29	1G	614	CLA	CED-O2D-CGD	2.12	120.74	115.94
46	1G	617	XAT	O24-C25-C26	-2.12	57.20	58.96
29	05	303	CLA	O2A-CGA-CBA	2.12	120.84	114.03
41	1c	517	SQD	O8-S-C6	-2.12	102.36	105.74
30	1R	304	CHL	C1C-C2C-C3C	-2.12	105.43	107.11
30	1r	305	CHL	O2D-CGD-O1D	-2.12	119.69	123.84
30	05	306	CHL	O2D-CGD-O1D	-2.12	119.28	124.09
46	1G	617	XAT	C5-C4-C3	-2.12	108.56	112.75
29	1n	604	CLA	CMC-C2C-C1C	2.12	128.26	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	309	CLA	C3B-C4B-NB	2.12	112.48	110.52
31	01	315	LUT	C11-C12-C13	2.12	132.37	126.42
30	1n	607	CHL	C1-C2-C3	-2.12	122.38	126.04
29	1b	608	CLA	CBC-CAC-C3C	-2.12	106.59	112.43
45	1f	101	HEM	C4C-CHD-C1D	-2.12	121.49	126.06
29	08	309	CLA	CBC-CAC-C3C	2.12	118.26	112.43
34	1c	520	DGD	C2G-O2G-C1B	-2.11	112.58	117.79
35	1B	618	BCR	C37-C22-C23	2.11	121.41	118.08
29	1C	511	CLA	O2A-CGA-CBA	2.11	120.59	112.23
30	09	305	CHL	CHB-C1B-C2B	-2.11	121.27	127.24
29	1B	615	CLA	C2A-C1A-CHA	-2.11	120.16	123.85
30	00	307	CHL	O2A-CGA-O1A	-2.11	118.26	123.59
46	1R	316	XAT	O4-C5-C6	-2.11	57.21	58.96
35	1b	619	BCR	C37-C22-C23	2.11	121.41	118.08
29	1B	616	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
29	1b	612	CLA	C4-C3-C5	2.11	118.83	115.27
38	1a	407	PHO	CAA-C2A-C3A	-2.11	111.17	116.10
46	1g	617	XAT	C31-C32-C33	2.11	132.35	126.42
30	1g	609	CHL	C4D-CHA-C1A	-2.11	118.68	121.25
29	1C	512	CLA	C2A-C1A-CHA	-2.11	120.17	123.86
29	1G	614	CLA	C4A-NA-C1A	2.11	107.66	106.71
29	02	609	CLA	CED-O2D-CGD	2.11	120.71	115.94
35	1b	620	BCR	C24-C25-C26	-2.11	116.35	121.46
29	1R	309	CLA	O2D-CGD-O1D	-2.11	119.30	124.09
29	1G	614	CLA	CAA-C2A-C3A	-2.11	108.99	114.26
29	1b	614	CLA	C4D-C3D-CAD	2.11	110.58	108.10
29	01	307	CLA	O2D-CGD-O1D	-2.11	119.72	123.84
29	1r	304	CLA	C2A-C1A-CHA	-2.11	120.17	123.86
29	1b	616	CLA	O2A-CGA-CBA	2.11	118.52	111.91
29	1a	406	CLA	O1D-CGD-CBD	-2.11	120.17	124.48
29	05	308	CLA	CED-O2D-CGD	2.11	120.70	115.94
30	08	302	CHL	C4D-CHA-C1A	-2.11	118.69	121.25
29	1D	405	CLA	O2D-CGD-O1D	-2.11	119.72	123.84
30	05	305	CHL	CHC-C4B-NB	-2.11	122.03	124.26
29	00	310	CLA	O1D-CGD-CBD	-2.10	120.18	124.48
30	1g	609	CHL	O2A-CGA-CBA	2.10	118.51	111.91
29	1A	407	CLA	C2A-C1A-CHA	-2.10	120.18	123.86
29	1a	408	CLA	C2A-C1A-CHA	-2.10	120.18	123.86
29	01	307	CLA	C2D-C1D-ND	2.10	111.65	110.10
29	06	602	CLA	O2D-CGD-O1D	-2.10	119.73	123.84
30	03	304	CHL	O2D-CGD-O1D	-2.10	119.73	123.84
41	1B	628	SQD	O8-S-C6	-2.10	102.39	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	04	306	CLA	O2D-CGD-O1D	-2.10	119.31	124.09
35	1a	409	BCR	C7-C6-C5	2.10	126.56	121.46
29	01	301	CLA	C2A-C1A-CHA	-2.10	120.18	123.86
45	1E	103	HEM	C4D-ND-C1D	2.10	107.24	105.07
35	1b	619	BCR	C2-C1-C6	2.10	113.72	110.48
46	1G	619	XAT	O24-C25-C26	-2.10	57.22	58.96
29	1C	512	CLA	O2A-C1-C2	2.10	114.16	108.64
30	1n	605	CHL	C4D-CHA-C1A	-2.10	118.69	121.25
33	1b	623	LHG	O7-C7-O9	-2.10	118.63	123.70
35	1c	516	BCR	C11-C10-C9	2.10	130.30	127.31
30	02	606	CHL	C4D-CHA-C1A	-2.10	118.70	121.25
30	1r	306	CHL	OBD-CAD-C3D	-2.10	123.47	128.52
30	1R	304	CHL	C2A-C1A-CHA	-2.10	120.19	123.86
30	05	305	CHL	C2A-C1A-CHA	-2.10	120.19	123.86
29	01	309	CLA	C3B-C4B-NB	2.10	112.46	110.52
30	1n	608	CHL	CHB-C1B-C2B	-2.10	121.32	127.24
29	1S	306	CLA	O2D-CGD-O1D	-2.09	119.33	124.09
29	1s	312	CLA	O1D-CGD-CBD	-2.09	120.20	124.48
30	07	303	CHL	C2A-C1A-CHA	-2.09	120.20	123.85
29	1D	404	CLA	CMB-C2B-C1B	2.09	128.56	125.37
29	01	309	CLA	CBB-CAB-C3B	-2.09	117.21	127.62
29	02	613	CLA	C2A-C1A-CHA	-2.09	120.20	123.86
29	08	312	CLA	CED-O2D-CGD	2.09	120.67	115.94
30	1s	310	CHL	O2D-CGD-O1D	-2.09	119.34	124.09
32	09	315	VIV	C12-C5-C4	-2.09	118.08	121.30
41	1b	621	SQD	O47-C7-O49	-2.09	118.65	123.70
29	03	308	CLA	O2D-CGD-O1D	-2.09	119.75	123.84
31	1G	615	LUT	C19-C9-C8	2.09	121.37	118.08
29	1r	302	CLA	CMB-C2B-C1B	2.09	128.55	125.37
35	1b	618	BCR	C12-C13-C14	2.09	122.15	118.94
29	1B	611	CLA	CBC-CAC-C3C	-2.09	106.67	112.43
31	1S	318	LUT	C19-C9-C8	2.09	121.37	118.08
29	1R	302	CLA	O1D-CGD-CBD	-2.09	120.21	124.48
29	02	602	CLA	C2A-C1A-CHA	-2.09	120.21	123.86
29	1C	507	CLA	CHB-C1B-NB	-2.09	122.05	124.26
29	1b	614	CLA	O2D-CGD-O1D	-2.09	119.75	123.84
29	1g	610	CLA	CMC-C2C-C1C	2.09	128.22	125.04
29	07	308	CLA	CED-O2D-CGD	2.09	120.66	115.94
29	1s	315	CLA	C2A-C1A-CHA	-2.09	120.21	123.86
29	05	301	CLA	C2A-C1A-CHA	-2.09	120.21	123.85
29	1G	612	CLA	O1D-CGD-CBD	-2.09	120.21	124.48
30	1g	608	CHL	CHB-C1B-C2B	-2.09	121.34	127.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	01	304	CHL	O1D-CGD-CBD	-2.09	120.22	124.48
29	1r	314	CLA	CMC-C2C-C1C	2.09	128.22	125.04
31	01	314	LUT	C31-C30-C29	2.09	130.29	127.31
29	1c	513	CLA	CAA-C2A-C1A	2.08	118.81	111.97
30	1g	605	CHL	C4D-CHA-C1A	-2.08	118.71	121.25
30	05	305	CHL	CAA-C2A-C3A	-2.08	107.07	112.78
31	09	313	LUT	C31-C30-C29	2.08	130.28	127.31
30	01	305	CHL	CHC-C4B-NB	-2.08	122.05	124.26
29	1s	316	CLA	O2A-CGA-CBA	2.08	120.47	112.23
29	09	303	CLA	O2D-CGD-O1D	-2.08	119.36	124.09
29	06	602	CLA	CED-O2D-CGD	2.08	120.65	115.94
30	1N	309	CHL	C2A-C1A-CHA	-2.08	120.22	123.86
29	1b	612	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
29	05	312	CLA	C1D-CHD-C4C	-2.08	121.57	126.06
29	1b	610	CLA	CED-O2D-CGD	2.08	120.64	115.94
29	1B	608	CLA	O2D-CGD-O1D	-2.08	119.77	123.84
30	09	305	CHL	C4D-CHA-C1A	-2.08	118.72	121.25
29	1N	314	CLA	CBB-CAB-C3B	-2.08	117.27	127.62
30	1R	313	CHL	CHB-C1B-C2B	-2.08	121.36	127.24
29	1n	610	CLA	CHC-C4B-NB	-2.08	122.06	124.26
29	04	314	CLA	O1D-CGD-CBD	-2.08	120.23	124.48
29	05	303	CLA	CMC-C2C-C1C	2.08	128.21	125.04
29	1G	610	CLA	O2A-CGA-CBA	2.08	120.71	114.03
29	1R	309	CLA	CHC-C1C-NC	2.08	127.36	124.20
29	1N	315	CLA	O2D-CGD-O1D	-2.08	119.78	123.84
29	1g	603	CLA	O2D-CGD-O1D	-2.08	119.78	123.84
29	1d	406	CLA	C4D-C3D-CAD	2.08	110.55	108.10
45	1f	101	HEM	C1A-CHA-C4D	-2.08	121.41	126.34
30	1N	308	CHL	C6-C7-C8	-2.08	109.20	115.92
31	01	314	LUT	C7-C6-C5	-2.08	116.43	121.46
29	1b	603	CLA	C2A-C1A-CHA	-2.08	120.23	123.86
29	1D	401	CLA	C11-C12-C13	-2.07	109.22	115.92
29	02	610	CLA	C2A-C1A-CHA	-2.07	120.24	123.86
30	03	302	CHL	C2A-C1A-CHA	-2.07	120.24	123.85
30	09	308	CHL	C4D-CHA-C1A	-2.07	118.73	121.25
29	1b	608	CLA	C6-C5-C3	-2.07	108.03	113.45
29	05	308	CLA	O1D-CGD-CBD	-2.07	120.25	124.48
29	00	310	CLA	C2A-C1A-CHA	-2.07	120.24	123.86
29	1D	401	CLA	O1D-CGD-CBD	-2.07	120.25	124.48
29	1D	401	CLA	O2A-CGA-O1A	-2.07	118.37	123.59
30	1N	307	CHL	C4D-CHA-C1A	-2.07	118.73	121.25
29	1R	312	CLA	O2D-CGD-O1D	-2.07	119.80	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	309	CLA	CED-O2D-CGD	2.07	120.61	115.94
29	03	309	CLA	C4A-NA-C1A	2.07	107.64	106.71
29	1d	407	CLA	O2D-CGD-O1D	-2.07	119.80	123.84
29	1s	315	CLA	O2D-CGD-O1D	-2.07	119.80	123.84
29	1g	602	CLA	C4-C3-C5	2.07	118.75	115.27
29	1C	512	CLA	CED-O2D-CGD	2.06	120.61	115.94
41	1d	411	SQD	O7-S-C6	-2.06	104.49	106.94
30	07	306	CHL	C4D-CHA-C1A	-2.06	118.74	121.25
29	1r	308	CLA	C6-C5-C3	-2.06	111.25	114.62
29	1N	305	CLA	O1D-CGD-CBD	-2.06	120.27	124.48
31	00	313	LUT	C32-C33-C34	2.06	122.11	118.94
29	09	301	CLA	CHC-C1C-C2C	-2.06	121.00	126.73
29	09	317	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
31	1S	318	LUT	C18-C5-C6	2.06	126.84	124.53
30	08	303	CHL	CHC-C4B-NB	-2.06	122.08	124.26
30	05	304	CHL	C4D-CHA-C1A	-2.06	118.74	121.25
29	07	302	CLA	CAA-C2A-C3A	-2.06	111.29	116.10
29	1n	603	CLA	C2A-C1A-CHA	-2.06	120.26	123.86
29	04	309	CLA	O2D-CGD-O1D	-2.06	119.41	124.09
30	1G	605	CHL	C4D-CHA-C1A	-2.06	118.74	121.25
29	1a	405	CLA	C2A-C1A-CHA	-2.06	120.26	123.86
30	01	305	CHL	CED-O2D-CGD	2.06	120.59	115.94
29	1b	609	CLA	CHB-C1B-C2B	-2.06	121.43	127.24
46	1R	316	XAT	O24-C25-C26	-2.06	57.26	58.96
34	1c	519	DGD	O1G-C1A-O1A	-2.06	118.40	123.59
31	1S	317	LUT	C32-C33-C34	2.06	122.10	118.94
29	1g	611	CLA	O2D-CGD-O1D	-2.06	119.82	123.84
29	1n	603	CLA	O1D-CGD-CBD	-2.06	120.28	124.48
29	04	312	CLA	O2D-CGD-O1D	-2.06	119.42	124.09
30	09	308	CHL	C1-C2-C3	-2.05	122.49	126.04
30	1r	306	CHL	C1C-C2C-C3C	-2.05	105.48	107.11
29	1c	510	CLA	O1D-CGD-CBD	-2.05	120.28	124.48
35	1i	101	BCR	C7-C8-C9	2.05	129.34	126.23
30	08	303	CHL	O2D-CGD-O1D	-2.05	119.43	124.09
29	01	312	CLA	O2A-CGA-CBA	2.05	120.34	112.23
30	05	305	CHL	O2A-CGA-O1A	-2.05	118.41	123.59
35	1B	630	BCR	C2-C3-C4	-2.05	106.79	111.38
30	07	311	CHL	O2D-CGD-O1D	-2.05	119.43	124.09
30	00	307	CHL	CHB-C1B-C2B	-2.05	121.44	127.24
29	1N	311	CLA	CBC-CAC-C3C	-2.05	106.78	112.43
29	01	301	CLA	CMC-C2C-C1C	2.05	128.16	125.04
29	1b	612	CLA	CMC-C2C-C1C	2.05	128.16	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	06	604	CHL	C4D-CHA-C1A	-2.05	118.76	121.25
29	1B	609	CLA	C4-C3-C5	2.05	118.72	115.27
34	1B	627	DGD	C1E-O6E-C5E	2.05	117.71	113.69
40	1D	407	PL9	C7-C3-C2	-2.05	120.61	123.30
35	1d	409	BCR	C27-C26-C25	-2.05	119.76	122.73
29	1C	503	CLA	CAA-CBA-CGA	-2.05	107.28	113.25
29	03	310	CLA	CHB-C1B-C2B	-2.04	121.46	127.24
30	05	315	CHL	C4D-CHA-C1A	-2.04	118.76	121.25
31	1R	315	LUT	C31-C30-C29	2.04	130.23	127.31
30	1g	608	CHL	O2D-CGD-O1D	-2.04	119.84	123.84
29	01	313	CLA	O2A-CGA-CBA	2.04	120.31	112.23
35	1B	617	BCR	C30-C25-C24	-2.04	110.00	115.78
29	1s	305	CLA	C2A-C1A-CHA	-2.04	120.29	123.86
30	1n	608	CHL	O2D-CGD-O1D	-2.04	119.84	123.84
29	1s	313	CLA	C2A-C1A-CHA	-2.04	120.29	123.85
29	1n	611	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
41	1A	413	SQD	C45-O47-C7	2.04	122.82	117.79
29	1g	610	CLA	O2A-C1-C2	2.04	114.00	108.64
29	1r	304	CLA	CED-O2D-CGD	2.04	120.56	115.94
30	1R	303	CHL	C2A-C1A-CHA	-2.04	120.29	123.86
29	1R	309	CLA	C4D-C3D-CAD	2.04	110.50	108.10
30	03	304	CHL	C2A-C1A-CHA	-2.04	120.29	123.86
29	1B	612	CLA	C2D-C1D-ND	2.04	111.61	110.10
30	09	305	CHL	CMB-C2B-C1B	2.04	128.48	125.37
30	06	603	CHL	C4D-CHA-C1A	-2.04	118.77	121.25
29	1r	312	CLA	O2D-CGD-O1D	-2.04	119.85	123.84
29	1c	510	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
29	1s	306	CLA	O2A-CGA-CBA	2.04	120.29	112.23
29	1R	308	CLA	C2A-C1A-CHA	-2.04	120.29	123.86
30	1S	308	CHL	OMC-CMC-C2C	-2.04	121.08	125.69
30	1N	309	CHL	O2D-CGD-O1D	-2.04	119.85	123.84
30	1g	608	CHL	C4D-CHA-C1A	-2.04	118.77	121.25
29	1s	313	CLA	CMA-C3A-C2A	-2.04	111.35	116.10
29	1S	305	CLA	C3B-C4B-NB	2.04	112.40	110.52
29	1g	604	CLA	CBB-CAB-C3B	-2.04	117.49	127.62
29	05	311	CLA	O2D-CGD-O1D	-2.04	119.47	124.09
38	1A	405	PHO	CMB-C2B-C3B	2.04	128.49	124.68
29	1C	501	CLA	CHB-C1B-C2B	-2.04	121.49	127.24
29	1G	604	CLA	CMC-C2C-C1C	2.03	128.14	125.04
29	1N	303	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
29	1G	603	CLA	O1D-CGD-CBD	-2.03	120.32	124.48
46	1R	316	XAT	C35-C34-C33	2.03	130.21	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	00	306	CHL	C1C-C2C-C3C	-2.03	105.50	107.11
29	1c	509	CLA	C1-O2A-CGA	2.03	121.78	116.44
34	1B	626	DGD	O4D-C4D-C5D	2.03	114.35	109.30
35	1h	101	BCR	C7-C6-C5	-2.03	116.54	121.46
33	1r	317	LHG	O7-C7-O9	-2.03	118.79	123.70
30	01	306	CHL	C1-C2-C3	-2.03	122.53	126.04
29	1c	511	CLA	O2D-CGD-O1D	-2.03	119.86	123.84
30	1R	303	CHL	CBC-CAC-C3C	-2.03	106.83	112.43
30	00	306	CHL	CBB-CAB-C3B	-2.03	117.51	127.62
29	1G	602	CLA	CMB-C2B-C1B	2.03	128.46	125.37
29	1c	507	CLA	CHB-C1B-C2B	-2.03	121.50	127.24
29	1R	307	CLA	C3B-C4B-NB	2.03	112.40	110.52
29	1b	613	CLA	C4A-NA-C1A	2.03	107.62	106.71
29	00	301	CLA	O1D-CGD-CBD	-2.03	120.33	124.48
30	03	303	CHL	O2D-CGD-O1D	-2.03	119.48	124.09
29	1C	513	CLA	C2A-C1A-CHA	-2.03	120.31	123.85
35	1b	601	BCR	C11-C10-C9	2.03	130.21	127.31
29	1C	506	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
29	1g	603	CLA	O2A-CGA-CBA	2.03	120.25	112.23
45	1E	103	HEM	CBA-CAA-C2A	-2.03	106.99	112.63
30	1n	601	CHL	CHB-C1B-C2B	-2.03	121.51	127.24
31	1N	316	LUT	C11-C10-C9	2.03	130.21	127.31
30	1N	308	CHL	O2A-CGA-CBA	2.03	118.27	111.91
29	05	310	CLA	CMB-C2B-C1B	2.03	128.46	125.37
29	1a	405	CLA	CMB-C2B-C1B	2.03	128.46	125.37
30	04	302	CHL	CHC-C4B-NB	-2.03	122.11	124.26
30	1g	607	CHL	CHB-C1B-C2B	-2.03	121.51	127.24
30	1N	302	CHL	C4D-CHA-C1A	-2.03	118.78	121.25
30	04	302	CHL	O2D-CGD-O1D	-2.03	119.88	123.84
29	1g	614	CLA	C2A-C1A-CHA	-2.03	120.31	123.86
29	1S	313	CLA	O2D-CGD-O1D	-2.03	119.49	124.09
30	09	306	CHL	C1C-C2C-C3C	-2.03	105.51	107.11
30	04	305	CHL	C4D-CHA-C1A	-2.03	118.78	121.25
29	1a	405	CLA	C1-C2-C3	-2.03	122.54	126.04
29	1c	509	CLA	C1-C2-C3	-2.03	122.54	126.04
29	1D	402	CLA	C2A-C1A-CHA	-2.03	120.32	123.86
30	04	301	CHL	O1D-CGD-CBD	-2.03	120.34	124.48
35	1A	409	BCR	C7-C6-C5	2.03	126.37	121.46
46	1G	617	XAT	C38-C25-C24	2.02	116.56	114.28
29	1G	614	CLA	O2D-CGD-O1D	-2.02	119.88	123.84
30	00	305	CHL	CED-O2D-CGD	2.02	120.52	115.94
30	01	306	CHL	CHB-C1B-C2B	-2.02	121.52	127.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1n	611	CLA	C2A-C1A-CHA	-2.02	120.32	123.86
30	1G	609	CHL	CMA-C3A-C2A	-2.02	111.38	116.10
35	1I	102	BCR	C20-C21-C22	2.02	130.20	127.31
30	02	603	CHL	C4D-CHA-C1A	-2.02	118.79	121.25
29	05	311	CLA	C4D-C3D-CAD	2.02	110.48	108.10
30	1S	304	CHL	C4D-CHA-C1A	-2.02	118.79	121.25
30	03	311	CHL	CED-O2D-CGD	2.02	120.51	115.94
34	1C	518	DGD	O6D-C5D-C6D	2.02	110.74	106.67
29	1s	315	CLA	CED-O2D-CGD	2.02	120.51	115.94
29	1n	612	CLA	O1D-CGD-CBD	-2.02	120.35	124.48
29	1c	514	CLA	O1D-CGD-CBD	-2.02	120.35	124.48
31	1S	317	LUT	C35-C34-C33	2.02	130.19	127.31
30	00	308	CHL	O2D-CGD-O1D	-2.02	119.89	123.84
29	1n	602	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
29	1c	509	CLA	C3B-C4B-NB	2.02	112.39	110.52
46	1g	619	XAT	O4-C5-C6	-2.02	57.29	58.96
30	1r	313	CHL	O2A-CGA-CBA	2.02	120.21	112.23
29	1S	312	CLA	CMC-C2C-C1C	2.02	128.11	125.04
34	1B	626	DGD	C2G-O2G-C1B	-2.02	112.82	117.79
30	08	301	CHL	CHC-C4B-NB	-2.02	122.12	124.26
29	1c	511	CLA	CHB-C4A-NA	2.02	127.30	124.51
41	1A	413	SQD	O47-C45-C46	2.02	115.71	108.40
29	1C	508	CLA	C6-C7-C8	-2.02	109.40	115.92
29	1N	315	CLA	CED-O2D-CGD	2.02	120.50	115.94
29	1g	613	CLA	O2D-CGD-O1D	-2.02	119.89	123.84
30	1s	309	CHL	CBC-CAC-C3C	-2.02	106.87	112.43
29	07	312	CLA	C2A-C1A-CHA	-2.02	120.33	123.86
35	1B	617	BCR	C37-C22-C23	2.02	121.25	118.08
29	1C	505	CLA	C2A-C1A-CHA	-2.02	120.33	123.86
30	1r	306	CHL	O2A-CGA-CBA	2.02	120.51	114.03
29	1D	405	CLA	CAA-C2A-C3A	-2.02	109.22	114.26
30	1N	310	CHL	CHB-C1B-C2B	-2.02	121.54	127.24
30	04	301	CHL	CHB-C1B-C2B	-2.02	121.54	127.24
29	1n	613	CLA	CMC-C2C-C1C	2.02	128.11	125.04
30	09	307	CHL	O2D-CGD-O1D	-2.02	119.90	123.84
33	1C	527	LHG	O7-C5-C4	2.01	115.70	108.40
29	04	309	CLA	CAA-CBA-CGA	-2.01	107.16	112.51
33	1N	318	LHG	O7-C5-C4	2.01	115.69	108.40
30	05	306	CHL	C4D-CHA-C1A	-2.01	118.80	121.25
29	1B	601	CLA	CAA-C2A-C3A	-2.01	107.27	112.78
35	1h	101	BCR	C29-C30-C25	2.01	113.58	110.48
29	1c	510	CLA	C6-C5-C3	-2.01	108.18	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	1r	309	CLA	CHB-C1B-C2B	-2.01	121.55	127.24
31	1R	315	LUT	C1-C6-C5	-2.01	119.78	122.61
46	1G	619	XAT	C38-C25-C24	2.01	116.54	114.28
29	1b	604	CLA	O2D-CGD-O1D	-2.01	119.91	123.84
29	1n	604	CLA	CMA-C3A-C2A	-2.01	111.41	116.10
46	1G	617	XAT	C36-C21-C22	-2.01	105.49	108.98
38	1d	404	PHO	CMA-C3A-C4A	-2.01	109.97	114.38
29	1S	310	CLA	CED-O2D-CGD	2.01	120.48	115.94
30	1N	308	CHL	C4-C3-C5	2.01	118.65	115.27
30	02	607	CHL	C4D-CHA-C1A	-2.01	118.80	121.25
29	00	318	CLA	O2D-CGD-O1D	-2.01	119.91	123.84
29	1d	403	CLA	CED-O2D-CGD	2.01	120.48	115.94
29	07	312	CLA	C4A-NA-C1A	2.01	107.61	106.71
30	04	302	CHL	CHB-C1B-C2B	-2.01	121.56	127.24
29	1s	312	CLA	C2A-C1A-CHA	-2.01	120.35	123.86
30	1g	607	CHL	CHC-C4B-NB	-2.01	122.13	124.26
35	1I	102	BCR	C7-C6-C5	2.01	126.33	121.46
29	1n	614	CLA	O2D-CGD-O1D	-2.01	119.91	123.84
46	1G	619	XAT	C15-C14-C13	-2.01	124.44	127.31
29	1C	510	CLA	CAA-C2A-C3A	-2.01	107.28	112.78
29	1A	407	CLA	O2A-CGA-CBA	2.01	120.48	114.03
40	1E	102	PL9	C25-C24-C23	-2.01	118.53	123.68
30	03	304	CHL	CED-O2D-CGD	2.01	120.47	115.94
29	1N	313	CLA	CBA-CAA-C2A	-2.01	109.00	113.47
30	03	305	CHL	C2A-C1A-CHA	-2.01	120.35	123.86
29	08	308	CLA	O2D-CGD-O1D	-2.00	119.54	124.09
29	05	302	CLA	O2A-CGA-O1A	-2.00	118.30	123.30
30	1N	309	CHL	C1C-C2C-C3C	-2.00	105.52	107.11
29	1B	601	CLA	C1-O2A-CGA	2.00	121.70	116.44
30	1N	308	CHL	C6-C5-C3	-2.00	108.20	113.45
29	09	312	CLA	C2A-C1A-CHA	-2.00	120.36	123.86
29	02	611	CLA	O2A-CGA-CBA	2.00	120.46	114.03
30	06	606	CHL	C4D-CHA-C1A	-2.00	118.81	121.25
29	08	309	CLA	CAC-C3C-C2C	2.00	130.95	127.53
29	00	302	CLA	C6-C7-C8	-2.00	109.45	115.92

All (99) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
29	00	301	CLA	C8
29	00	302	CLA	C8
29	00	309	CLA	C8

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Mol	Chain	Res	Type	Atom
29	00	318	CLA	C8
29	01	307	CLA	C8
29	01	308	CLA	C8
29	01	310	CLA	C8
29	03	301	CLA	C8
29	06	602	CLA	C8
29	09	301	CLA	C8
29	09	302	CLA	C8
29	1A	404	CLA	C8
29	1B	601	CLA	C8
29	1B	602	CLA	C8
29	1B	603	CLA	C8
29	1B	604	CLA	C8
29	1B	605	CLA	C8
29	1B	606	CLA	C8
29	1B	607	CLA	C8
29	1B	608	CLA	C8
29	1B	609	CLA	C8
29	1B	610	CLA	C8
29	1B	611	CLA	C8
29	1B	612	CLA	C8
29	1B	613	CLA	C8
29	1B	616	CLA	C8
29	1C	501	CLA	C8
29	1C	502	CLA	C8
29	1C	503	CLA	C8
29	1C	504	CLA	C8
29	1C	505	CLA	C8
29	1C	507	CLA	C8
29	1C	508	CLA	C8
29	1C	509	CLA	C8
29	1C	510	CLA	C8
29	1C	512	CLA	C8
29	1D	401	CLA	C8
29	1D	404	CLA	C8
29	1G	602	CLA	C8
29	1G	612	CLA	C8
29	1N	303	CLA	C8
29	1R	302	CLA	C8
29	1S	313	CLA	C8
29	1a	408	CLA	C8
29	1b	602	CLA	C8

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Mol	Chain	Res	Type	Atom
29	1b	603	CLA	C8
29	1b	604	CLA	C8
29	1b	606	CLA	C8
29	1b	608	CLA	C8
29	1b	609	CLA	C8
29	1b	610	CLA	C8
29	1b	611	CLA	C8
29	1b	612	CLA	C8
29	1b	613	CLA	C8
29	1b	614	CLA	C8
29	1b	615	CLA	C8
29	1b	616	CLA	C8
29	1c	503	CLA	C8
29	1c	504	CLA	C8
29	1c	505	CLA	C8
29	1c	506	CLA	C8
29	1c	508	CLA	C8
29	1c	509	CLA	C8
29	1c	510	CLA	C8
29	1c	512	CLA	C8
29	1c	514	CLA	C8
29	1c	515	CLA	C8
29	1d	403	CLA	C8
29	1d	406	CLA	C8
29	1d	407	CLA	C8
29	1g	602	CLA	C8
29	1g	610	CLA	C8
29	1g	612	CLA	C8
29	1g	613	CLA	C8
29	1n	602	CLA	C8
29	1n	603	CLA	C8
29	1n	610	CLA	C8
29	1n	611	CLA	C8
29	1n	613	CLA	C8
29	1r	309	CLA	C8
29	1s	312	CLA	C8
29	1s	315	CLA	C8
30	00	306	CHL	C8
30	00	307	CHL	C8
30	00	308	CHL	C8
30	01	304	CHL	C8
30	01	306	CHL	C8

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Mol	Chain	Res	Type	Atom
30	05	305	CHL	C8
30	09	308	CHL	C8
30	1G	601	CHL	C8
30	1G	607	CHL	C8
30	1N	302	CHL	C8
30	1N	308	CHL	C8
30	1N	310	CHL	C8
30	1g	601	CHL	C8
30	1g	609	CHL	C8
30	1n	601	CHL	C8
30	1n	607	CHL	C8
30	1n	609	CHL	C8

All (3335) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
29	00	301	CLA	C2-C3-C5-C6
29	00	301	CLA	C4-C3-C5-C6
29	00	303	CLA	C2B-C3B-CAB-CBB
29	00	303	CLA	C4B-C3B-CAB-CBB
29	00	309	CLA	C2-C3-C5-C6
29	00	309	CLA	C4-C3-C5-C6
29	00	318	CLA	CHA-CBD-CGD-O1D
29	00	318	CLA	CHA-CBD-CGD-O2D
29	01	301	CLA	C2B-C3B-CAB-CBB
29	01	301	CLA	C4B-C3B-CAB-CBB
29	01	301	CLA	CHA-CBD-CGD-O1D
29	01	301	CLA	CHA-CBD-CGD-O2D
29	01	301	CLA	CAD-CBD-CGD-O1D
29	01	301	CLA	CAD-CBD-CGD-O2D
29	01	301	CLA	C4-C3-C5-C6
29	01	308	CLA	C2B-C3B-CAB-CBB
29	01	308	CLA	C4B-C3B-CAB-CBB
29	02	613	CLA	CHA-CBD-CGD-O1D
29	02	613	CLA	CHA-CBD-CGD-O2D
29	02	614	CLA	C1A-C2A-CAA-CBA
29	03	309	CLA	CAD-CBD-CGD-O2D
29	03	310	CLA	C2B-C3B-CAB-CBB
29	03	310	CLA	C4B-C3B-CAB-CBB
29	04	309	CLA	C1A-C2A-CAA-CBA
29	04	311	CLA	C1A-C2A-CAA-CBA
29	04	311	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	04	314	CLA	CHA-CBD-CGD-O1D
29	04	314	CLA	CHA-CBD-CGD-O2D
29	05	301	CLA	C2B-C3B-CAB-CBB
29	05	301	CLA	C4B-C3B-CAB-CBB
29	05	303	CLA	C4B-C3B-CAB-CBB
29	06	602	CLA	C4-C3-C5-C6
29	07	309	CLA	C1A-C2A-CAA-CBA
29	07	309	CLA	C3A-C2A-CAA-CBA
29	08	308	CLA	C2B-C3B-CAB-CBB
29	08	308	CLA	C4B-C3B-CAB-CBB
29	08	312	CLA	C1A-C2A-CAA-CBA
29	08	312	CLA	C3A-C2A-CAA-CBA
29	09	301	CLA	C2-C3-C5-C6
29	09	301	CLA	C4-C3-C5-C6
29	09	303	CLA	C2B-C3B-CAB-CBB
29	09	303	CLA	C4B-C3B-CAB-CBB
29	09	317	CLA	CHA-CBD-CGD-O1D
29	09	317	CLA	CHA-CBD-CGD-O2D
29	1B	601	CLA	C2B-C3B-CAB-CBB
29	1B	601	CLA	C4B-C3B-CAB-CBB
29	1B	602	CLA	C4B-C3B-CAB-CBB
29	1B	602	CLA	C6-C7-C8-C9
29	1B	610	CLA	C1A-C2A-CAA-CBA
29	1B	610	CLA	C3A-C2A-CAA-CBA
29	1B	611	CLA	C4-C3-C5-C6
29	1B	612	CLA	CHA-CBD-CGD-O1D
29	1B	612	CLA	CHA-CBD-CGD-O2D
29	1B	612	CLA	CAD-CBD-CGD-O1D
29	1B	612	CLA	CAD-CBD-CGD-O2D
29	1B	615	CLA	CHA-CBD-CGD-O1D
29	1B	615	CLA	CHA-CBD-CGD-O2D
29	1B	615	CLA	CAD-CBD-CGD-O1D
29	1C	503	CLA	C2-C3-C5-C6
29	1C	503	CLA	C4-C3-C5-C6
29	1C	505	CLA	CHA-CBD-CGD-O1D
29	1C	505	CLA	CHA-CBD-CGD-O2D
29	1D	401	CLA	CHA-CBD-CGD-O1D
29	1D	401	CLA	CHA-CBD-CGD-O2D
29	1D	402	CLA	CHA-CBD-CGD-O1D
29	1D	402	CLA	CHA-CBD-CGD-O2D
29	1D	404	CLA	C1A-C2A-CAA-CBA
29	1G	603	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	1G	603	CLA	C4B-C3B-CAB-CBB
29	1G	604	CLA	CHA-CBD-CGD-O2D
29	1G	610	CLA	C1A-C2A-CAA-CBA
29	1N	305	CLA	C2B-C3B-CAB-CBB
29	1N	305	CLA	C4B-C3B-CAB-CBB
29	1N	311	CLA	CBD-CGD-O2D-CED
29	1R	302	CLA	C2-C3-C5-C6
29	1R	302	CLA	C4-C3-C5-C6
29	1R	306	CLA	CBD-CGD-O2D-CED
29	1R	308	CLA	C3A-C2A-CAA-CBA
29	1S	305	CLA	C2B-C3B-CAB-CBB
29	1S	305	CLA	C4B-C3B-CAB-CBB
29	1S	314	CLA	C2B-C3B-CAB-CBB
29	1S	314	CLA	C4B-C3B-CAB-CBB
29	1a	405	CLA	CBD-CGD-O2D-CED
29	1a	406	CLA	CHA-CBD-CGD-O1D
29	1a	406	CLA	CHA-CBD-CGD-O2D
29	1b	603	CLA	C2-C3-C5-C6
29	1b	603	CLA	C4-C3-C5-C6
29	1b	606	CLA	C1A-C2A-CAA-CBA
29	1b	606	CLA	CBD-CGD-O2D-CED
29	1b	611	CLA	C6-C7-C8-C9
29	1b	612	CLA	CBD-CGD-O2D-CED
29	1b	613	CLA	C1A-C2A-CAA-CBA
29	1b	613	CLA	CHA-CBD-CGD-O1D
29	1b	613	CLA	CHA-CBD-CGD-O2D
29	1b	613	CLA	CAD-CBD-CGD-O1D
29	1b	614	CLA	C2-C3-C5-C6
29	1b	614	CLA	C4-C3-C5-C6
29	1b	615	CLA	C2-C3-C5-C6
29	1b	615	CLA	C4-C3-C5-C6
29	1b	617	CLA	C4B-C3B-CAB-CBB
29	1b	617	CLA	CHA-CBD-CGD-O1D
29	1b	617	CLA	CHA-CBD-CGD-O2D
29	1c	505	CLA	C2-C3-C5-C6
29	1c	505	CLA	C4-C3-C5-C6
29	1c	506	CLA	C4-C3-C5-C6
29	1c	507	CLA	CHA-CBD-CGD-O1D
29	1c	507	CLA	CHA-CBD-CGD-O2D
29	1c	507	CLA	CAD-CBD-CGD-O1D
29	1c	507	CLA	C3-C5-C6-C7
29	1c	509	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
29	1c	509	CLA	C4-C3-C5-C6
29	1c	511	CLA	CAD-CBD-CGD-O1D
29	1c	511	CLA	CBD-CGD-O2D-CED
29	1c	515	CLA	C1A-C2A-CAA-CBA
29	1d	403	CLA	C1A-C2A-CAA-CBA
29	1d	403	CLA	CHA-CBD-CGD-O1D
29	1d	403	CLA	CHA-CBD-CGD-O2D
29	1g	604	CLA	C2B-C3B-CAB-CBB
29	1g	604	CLA	C4B-C3B-CAB-CBB
29	1g	610	CLA	C1A-C2A-CAA-CBA
29	1g	612	CLA	CHA-CBD-CGD-O1D
29	1g	612	CLA	CHA-CBD-CGD-O2D
29	1g	613	CLA	CHA-CBD-CGD-O1D
29	1g	613	CLA	CHA-CBD-CGD-O2D
29	1g	613	CLA	CBD-CGD-O2D-CED
29	1g	614	CLA	CHA-CBD-CGD-O1D
29	1g	614	CLA	CHA-CBD-CGD-O2D
29	1g	614	CLA	CAD-CBD-CGD-O1D
29	1g	614	CLA	CAD-CBD-CGD-O2D
29	1n	604	CLA	C2B-C3B-CAB-CBB
29	1n	604	CLA	C4B-C3B-CAB-CBB
29	1n	604	CLA	CHA-CBD-CGD-O1D
29	1n	604	CLA	CHA-CBD-CGD-O2D
29	1n	604	CLA	CAD-CBD-CGD-O1D
29	1n	611	CLA	C1A-C2A-CAA-CBA
29	1n	611	CLA	C3A-C2A-CAA-CBA
29	1n	613	CLA	C4B-C3B-CAB-CBB
29	1n	613	CLA	CHA-CBD-CGD-O1D
29	1n	613	CLA	CHA-CBD-CGD-O2D
29	1n	614	CLA	CBD-CGD-O2D-CED
29	1r	304	CLA	C2B-C3B-CAB-CBB
29	1r	304	CLA	C4B-C3B-CAB-CBB
29	1r	308	CLA	C1A-C2A-CAA-CBA
29	1r	308	CLA	C3A-C2A-CAA-CBA
29	1r	308	CLA	CBD-CGD-O2D-CED
29	1r	308	CLA	C2-C3-C5-C6
29	1r	308	CLA	C4-C3-C5-C6
29	1r	314	CLA	CHA-CBD-CGD-O1D
29	1r	314	CLA	CHA-CBD-CGD-O2D
29	1s	307	CLA	C2B-C3B-CAB-CBB
29	1s	307	CLA	C4B-C3B-CAB-CBB
29	1s	312	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	1s	312	CLA	C4B-C3B-CAB-CBB
30	00	304	CHL	C3C-C2C-CMC-OMC
30	00	305	CHL	C1C-C2C-CMC-OMC
30	00	306	CHL	C1A-C2A-CAA-CBA
30	00	306	CHL	C3A-C2A-CAA-CBA
30	00	306	CHL	C3C-C2C-CMC-OMC
30	00	307	CHL	C1A-C2A-CAA-CBA
30	00	307	CHL	C11-C12-C13-C14
30	01	302	CHL	C3C-C2C-CMC-OMC
30	01	302	CHL	CHA-CBD-CGD-O1D
30	01	302	CHL	CHA-CBD-CGD-O2D
30	01	302	CHL	CAD-CBD-CGD-O1D
30	01	303	CHL	C3C-C2C-CMC-OMC
30	01	304	CHL	C3C-C2C-CMC-OMC
30	01	304	CHL	CBD-CGD-O2D-CED
30	01	305	CHL	C1A-C2A-CAA-CBA
30	01	305	CHL	C3A-C2A-CAA-CBA
30	01	305	CHL	CHA-CBD-CGD-O1D
30	01	305	CHL	CHA-CBD-CGD-O2D
30	01	306	CHL	CHA-CBD-CGD-O1D
30	01	306	CHL	CHA-CBD-CGD-O2D
30	02	603	CHL	C3C-C2C-CMC-OMC
30	02	603	CHL	CHA-CBD-CGD-O1D
30	02	603	CHL	CHA-CBD-CGD-O2D
30	02	604	CHL	C3C-C2C-CMC-OMC
30	02	606	CHL	C3C-C2C-CMC-OMC
30	02	607	CHL	C1A-C2A-CAA-CBA
30	02	607	CHL	C3A-C2A-CAA-CBA
30	02	607	CHL	C1C-C2C-CMC-OMC
30	02	607	CHL	C3C-C2C-CMC-OMC
30	03	302	CHL	C3C-C2C-CMC-OMC
30	03	303	CHL	C1A-C2A-CAA-CBA
30	03	303	CHL	C3A-C2A-CAA-CBA
30	03	303	CHL	C3C-C2C-CMC-OMC
30	03	311	CHL	C3C-C2C-CMC-OMC
30	04	301	CHL	C3C-C2C-CMC-OMC
30	04	302	CHL	C3C-C2C-CMC-OMC
30	04	304	CHL	C1C-C2C-CMC-OMC
30	04	304	CHL	C3C-C2C-CMC-OMC
30	04	305	CHL	C3C-C2C-CMC-OMC
30	05	307	CHL	C3C-C2C-CMC-OMC
30	05	313	CHL	C3C-C2C-CMC-OMC

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Mol	Chain	Res	Type	Atoms
30	05	315	CHL	C3C-C2C-CMC-OMC
30	05	315	CHL	CBD-CGD-O2D-CED
30	06	601	CHL	C3C-C2C-CMC-OMC
30	06	603	CHL	C3C-C2C-CMC-OMC
30	06	603	CHL	CAD-CBD-CGD-O2D
30	06	605	CHL	C3C-C2C-CMC-OMC
30	06	606	CHL	C3C-C2C-CMC-OMC
30	07	303	CHL	C3C-C2C-CMC-OMC
30	07	304	CHL	C3C-C2C-CMC-OMC
30	07	305	CHL	C3C-C2C-CMC-OMC
30	07	306	CHL	C3C-C2C-CMC-OMC
30	07	311	CHL	C2B-C3B-CAB-CBB
30	07	311	CHL	C4B-C3B-CAB-CBB
30	07	311	CHL	C1C-C2C-CMC-OMC
30	07	311	CHL	C3C-C2C-CMC-OMC
30	08	301	CHL	C1C-C2C-CMC-OMC
30	08	301	CHL	C3C-C2C-CMC-OMC
30	08	303	CHL	C3C-C2C-CMC-OMC
30	08	304	CHL	C1C-C2C-CMC-OMC
30	08	304	CHL	C3C-C2C-CMC-OMC
30	08	305	CHL	C1A-C2A-CAA-CBA
30	08	305	CHL	C3C-C2C-CMC-OMC
30	09	304	CHL	C3C-C2C-CMC-OMC
30	09	305	CHL	C1C-C2C-CMC-OMC
30	09	305	CHL	C3C-C2C-CMC-OMC
30	09	306	CHL	C3C-C2C-CMC-OMC
30	09	308	CHL	C1C-C2C-CMC-OMC
30	09	308	CHL	C3C-C2C-CMC-OMC
30	1G	601	CHL	CHA-CBD-CGD-O1D
30	1G	601	CHL	CHA-CBD-CGD-O2D
30	1G	605	CHL	C3C-C2C-CMC-OMC
30	1G	605	CHL	CAD-CBD-CGD-O2D
30	1G	606	CHL	C3C-C2C-CMC-OMC
30	1G	607	CHL	C2A-CAA-CBA-CGA
30	1G	607	CHL	CBD-CGD-O2D-CED
30	1G	608	CHL	C1A-C2A-CAA-CBA
30	1G	608	CHL	C3C-C2C-CMC-OMC
30	1G	608	CHL	CBD-CGD-O2D-CED
30	1G	609	CHL	C1C-C2C-CMC-OMC
30	1G	609	CHL	C3C-C2C-CMC-OMC
30	1N	302	CHL	C1C-C2C-CMC-OMC
30	1N	302	CHL	C3C-C2C-CMC-OMC

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Mol	Chain	Res	Type	Atoms
30	1N	306	CHL	C3C-C2C-CMC-OMC
30	1N	308	CHL	C2B-C3B-CAB-CBB
30	1N	308	CHL	C4B-C3B-CAB-CBB
30	1N	308	CHL	C3C-C2C-CMC-OMC
30	1N	309	CHL	C3C-C2C-CMC-OMC
30	1N	309	CHL	CBD-CGD-O2D-CED
30	1N	310	CHL	C1A-C2A-CAA-CBA
30	1N	310	CHL	C3A-C2A-CAA-CBA
30	1N	310	CHL	C1C-C2C-CMC-OMC
30	1N	310	CHL	C3C-C2C-CMC-OMC
30	1R	303	CHL	C3C-C2C-CMC-OMC
30	1R	304	CHL	C2B-C3B-CAB-CBB
30	1R	304	CHL	C4B-C3B-CAB-CBB
30	1R	304	CHL	C3C-C2C-CMC-OMC
30	1R	305	CHL	C3C-C2C-CMC-OMC
30	1R	313	CHL	C3C-C2C-CMC-OMC
30	1S	304	CHL	C2B-C3B-CAB-CBB
30	1S	304	CHL	C4B-C3B-CAB-CBB
30	1S	304	CHL	C1C-C2C-CMC-OMC
30	1S	304	CHL	C3C-C2C-CMC-OMC
30	1S	308	CHL	C1C-C2C-CMC-OMC
30	1S	308	CHL	C3C-C2C-CMC-OMC
30	1S	308	CHL	CAD-CBD-CGD-O1D
30	1S	308	CHL	CAD-CBD-CGD-O2D
30	1S	309	CHL	C1C-C2C-CMC-OMC
30	1S	309	CHL	C3C-C2C-CMC-OMC
30	1g	601	CHL	C3C-C2C-CMC-OMC
30	1g	605	CHL	C1C-C2C-CMC-OMC
30	1g	605	CHL	C3C-C2C-CMC-OMC
30	1g	605	CHL	CHA-CBD-CGD-O1D
30	1g	606	CHL	C2B-C3B-CAB-CBB
30	1g	606	CHL	C4B-C3B-CAB-CBB
30	1g	607	CHL	CBD-CGD-O2D-CED
30	1g	608	CHL	C1A-C2A-CAA-CBA
30	1g	608	CHL	CBD-CGD-O2D-CED
30	1n	601	CHL	C3C-C2C-CMC-OMC
30	1n	605	CHL	C3C-C2C-CMC-OMC
30	1n	607	CHL	C3C-C2C-CMC-OMC
30	1n	609	CHL	C1A-C2A-CAA-CBA
30	1n	609	CHL	C3A-C2A-CAA-CBA
30	1n	609	CHL	C2-C3-C5-C6
30	1n	609	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
30	1r	306	CHL	C3C-C2C-CMC-OMC
30	1r	307	CHL	C3C-C2C-CMC-OMC
30	1r	307	CHL	CBD-CGD-O2D-CED
30	1r	313	CHL	C3C-C2C-CMC-OMC
30	1s	304	CHL	C1C-C2C-CMC-OMC
30	1s	304	CHL	C3C-C2C-CMC-OMC
30	1s	308	CHL	CHA-CBD-CGD-O1D
30	1s	308	CHL	CHA-CBD-CGD-O2D
30	1s	309	CHL	CHA-CBD-CGD-O1D
30	1s	309	CHL	CHA-CBD-CGD-O2D
30	1s	309	CHL	CAD-CBD-CGD-O1D
30	1s	309	CHL	CAD-CBD-CGD-O2D
30	1s	309	CHL	CBD-CGD-O2D-CED
30	1s	310	CHL	C1C-C2C-CMC-OMC
30	1s	310	CHL	C3C-C2C-CMC-OMC
31	1s	318	LUT	C9-C10-C11-C12
32	00	315	VIV	C16-C15-C9-O1
32	00	315	VIV	C16-C15-C9-C11
32	00	315	VIV	C16-C15-C9-C14
32	09	315	VIV	C16-C15-C9-C11
32	09	315	VIV	C16-C15-C9-C14
33	00	317	LHG	C3-O3-P-O5
33	00	317	LHG	C3-O3-P-O6
33	00	317	LHG	O9-C7-O7-C5
33	00	317	LHG	C8-C7-O7-C5
33	00	319	LHG	C3-O3-P-O5
33	00	319	LHG	C4-O6-P-O5
33	00	321	LHG	C4-O6-P-O3
33	00	321	LHG	C4-O6-P-O5
33	00	321	LHG	C5-C4-O6-P
33	00	321	LHG	O10-C23-O8-C6
33	00	321	LHG	C24-C23-O8-C6
33	01	316	LHG	C3-O3-P-O5
33	03	314	LHG	O10-C23-O8-C6
33	03	314	LHG	C24-C23-O8-C6
33	07	314	LHG	O9-C7-O7-C5
33	07	314	LHG	C8-C7-O7-C5
33	07	314	LHG	O10-C23-O8-C6
33	07	314	LHG	C24-C23-O8-C6
33	09	318	LHG	C4-O6-P-O5
33	09	318	LHG	C5-C4-O6-P
33	09	318	LHG	O10-C23-O8-C6

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Mol	Chain	Res	Type	Atoms
33	09	318	LHG	C24-C23-O8-C6
33	1B	621	LHG	C4-O6-P-O3
33	1C	522	LHG	C3-O3-P-O5
33	1C	522	LHG	O9-C7-O7-C5
33	1C	522	LHG	C8-C7-O7-C5
33	1C	523	LHG	O10-C23-O8-C6
33	1C	523	LHG	C24-C23-O8-C6
33	1C	525	LHG	O9-C7-O7-C5
33	1C	525	LHG	C8-C7-O7-C5
33	1C	525	LHG	O10-C23-O8-C6
33	1C	525	LHG	C24-C23-O8-C6
33	1C	527	LHG	O10-C23-O8-C6
33	1C	527	LHG	C24-C23-O8-C6
33	1D	409	LHG	C3-O3-P-O5
33	1D	409	LHG	C4-O6-P-O4
33	1E	101	LHG	C3-O3-P-O4
33	1E	101	LHG	C3-O3-P-O5
33	1E	101	LHG	C3-O3-P-O6
33	1F	101	LHG	C4-O6-P-O5
33	1F	101	LHG	O10-C23-O8-C6
33	1F	101	LHG	C24-C23-O8-C6
33	1G	618	LHG	C3-O3-P-O5
33	1J	102	LHG	C4-O6-P-O5
33	1K	101	LHG	C3-O3-P-O5
33	1K	101	LHG	C3-O3-P-O6
33	1L	101	LHG	C3-O3-P-O5
33	1L	101	LHG	C3-O3-P-O6
33	1N	301	LHG	C2-C3-O3-P
33	1N	318	LHG	C3-O3-P-O5
33	1N	318	LHG	C3-O3-P-O6
33	1P	201	LHG	C4-O6-P-O5
33	1R	317	LHG	O10-C23-O8-C6
33	1R	317	LHG	C24-C23-O8-C6
33	1S	301	LHG	C3-O3-P-O5
33	1S	303	LHG	O9-C7-O7-C5
33	1S	303	LHG	C8-C7-O7-C5
33	1S	319	LHG	O10-C23-O8-C6
33	1S	319	LHG	C24-C23-O8-C6
33	1V	201	LHG	C3-O3-P-O5
33	1W	101	LHG	C2-C3-O3-P
33	1W	101	LHG	C3-O3-P-O4
33	1W	102	LHG	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
33	1W	102	LHG	C2-C3-O3-P
33	1W	102	LHG	C3-O3-P-O5
33	1W	102	LHG	C3-O3-P-O6
33	1W	102	LHG	C4-O6-P-O3
33	1W	102	LHG	C4-O6-P-O5
33	1W	102	LHG	C5-C4-O6-P
33	1W	102	LHG	O9-C7-O7-C5
33	1W	102	LHG	C8-C7-O7-C5
33	1a	413	LHG	C1-C2-C3-O3
33	1a	413	LHG	C4-O6-P-O3
33	1a	413	LHG	C4-O6-P-O4
33	1a	413	LHG	C4-O6-P-O5
33	1a	413	LHG	O9-C7-O7-C5
33	1a	413	LHG	C8-C7-O7-C5
33	1b	623	LHG	O9-C7-O7-C5
33	1b	623	LHG	C8-C7-O7-C5
33	1b	625	LHG	C4-O6-P-O3
33	1b	625	LHG	C5-C4-O6-P
33	1c	521	LHG	C4-O6-P-O5
33	1c	521	LHG	C5-C4-O6-P
33	1c	522	LHG	C4-O6-P-O5
33	1c	522	LHG	C5-C4-O6-P
33	1d	401	LHG	C3-O3-P-O5
33	1d	402	LHG	C3-O3-P-O5
33	1g	618	LHG	C4-O6-P-O4
33	1j	102	LHG	O9-C7-O7-C5
33	1j	102	LHG	C8-C7-O7-C5
33	1n	617	LHG	O9-C7-O7-C5
33	1n	617	LHG	C8-C7-O7-C5
33	1r	317	LHG	O9-C7-O7-C5
33	1r	317	LHG	C8-C7-O7-C5
33	1s	303	LHG	O9-C7-O7-C5
33	1s	303	LHG	C8-C7-O7-C5
33	1t	101	LHG	O10-C23-O8-C6
33	1t	101	LHG	C24-C23-O8-C6
33	1v	201	LHG	C4-O6-P-O3
33	1v	201	LHG	C4-O6-P-O4
33	1v	201	LHG	C4-O6-P-O5
33	1w	102	LHG	C4-O6-P-O3
33	1w	102	LHG	O10-C23-O8-C6
33	1w	102	LHG	C24-C23-O8-C6
33	1w	103	LHG	C3-O3-P-O5

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Mol	Chain	Res	Type	Atoms
33	1w	104	LHG	C2-C3-O3-P
34	00	320	DGD	O2G-C2G-C3G-O3G
34	00	320	DGD	C2D-C1D-O3G-C3G
34	00	320	DGD	O6D-C1D-O3G-C3G
34	1B	626	DGD	C4D-C5D-C6D-O5D
34	1B	626	DGD	C2E-C1E-O5D-C6D
34	1B	627	DGD	C2D-C1D-O3G-C3G
34	1S	320	DGD	O6D-C1D-O3G-C3G
35	1B	617	BCR	C7-C8-C9-C10
35	1B	617	BCR	C7-C8-C9-C34
35	1B	619	BCR	C7-C8-C9-C10
35	1D	406	BCR	C23-C24-C25-C26
35	1D	406	BCR	C23-C24-C25-C30
35	1J	101	BCR	C7-C8-C9-C10
35	1b	601	BCR	C17-C18-C19-C20
35	1b	601	BCR	C36-C18-C19-C20
35	1b	601	BCR	C21-C22-C23-C24
35	1b	601	BCR	C37-C22-C23-C24
35	1d	409	BCR	C23-C24-C25-C26
35	1d	409	BCR	C23-C24-C25-C30
35	1k	102	BCR	C17-C18-C19-C20
35	1k	102	BCR	C36-C18-C19-C20
38	1A	405	PHO	CBA-CGA-O2A-C1
38	1A	405	PHO	O1A-CGA-O2A-C1
40	1A	410	PL9	C15-C14-C16-C17
40	1E	102	PL9	C9-C11-C12-C13
40	1E	102	PL9	C13-C14-C16-C17
40	1E	102	PL9	C15-C14-C16-C17
40	1R	301	PL9	C20-C19-C21-C22
40	1R	301	PL9	C19-C21-C22-C23
40	1R	301	PL9	C43-C44-C46-C47
40	1R	301	PL9	C45-C44-C46-C47
40	1a	412	PL9	C9-C11-C12-C13
40	1a	412	PL9	C20-C19-C21-C22
40	1a	412	PL9	C24-C26-C27-C28
40	1a	412	PL9	C29-C31-C32-C33
40	1a	412	PL9	C44-C46-C47-C48
40	1r	301	PL9	C35-C34-C36-C37
40	1r	301	PL9	C40-C39-C41-C42
40	1r	301	PL9	C43-C44-C46-C47
40	1r	301	PL9	C45-C44-C46-C47
41	1A	412	SQD	C2-C1-O6-C44

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Mol	Chain	Res	Type	Atoms
41	1A	412	SQD	O5-C1-O6-C44
41	1A	413	SQD	O49-C7-O47-C45
41	1A	413	SQD	C8-C7-O47-C45
41	1A	413	SQD	O10-C23-O48-C46
41	1A	413	SQD	C24-C23-O48-C46
41	1B	620	SQD	C2-C1-O6-C44
41	1B	620	SQD	O5-C1-O6-C44
41	1B	622	SQD	O49-C7-O47-C45
41	1B	622	SQD	C8-C7-O47-C45
41	1B	628	SQD	O5-C1-O6-C44
41	1D	411	SQD	C45-C44-O6-C1
41	1D	411	SQD	O5-C1-O6-C44
41	1D	412	SQD	O5-C1-O6-C44
41	1L	102	SQD	C2-C1-O6-C44
41	1L	102	SQD	O5-C1-O6-C44
41	1L	102	SQD	O10-C23-O48-C46
41	1L	102	SQD	C24-C23-O48-C46
41	1a	410	SQD	O49-C7-O47-C45
41	1a	410	SQD	C8-C7-O47-C45
41	1b	621	SQD	O49-C7-O47-C45
41	1b	621	SQD	C8-C7-O47-C45
41	1b	622	SQD	O5-C1-O6-C44
41	1b	622	SQD	O10-C23-O48-C46
41	1b	622	SQD	C24-C23-O48-C46
41	1c	517	SQD	O49-C7-O47-C45
41	1c	517	SQD	C8-C7-O47-C45
41	1d	405	SQD	C45-C44-O6-C1
41	1d	405	SQD	O10-C23-O48-C46
41	1d	405	SQD	C24-C23-O48-C46
41	1l	101	SQD	C2-C1-O6-C44
41	1l	101	SQD	O5-C1-O6-C44
41	1l	101	SQD	O49-C7-O47-C45
41	1l	101	SQD	C8-C7-O47-C45
41	1m	101	SQD	O5-C1-O6-C44
41	1m	101	SQD	O10-C23-O48-C46
41	1m	101	SQD	C24-C23-O48-C46
41	1w	101	SQD	O10-C23-O48-C46
41	1w	101	SQD	C24-C23-O48-C46
42	1B	623	MGE	C2B-C1B-O2G-C2G
42	1B	623	MGE	O1B-C1B-O2G-C2G
42	1B	624	MGE	C2D-C1D-O3G-C3G
42	1B	624	MGE	O6D-C1D-O3G-C3G

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Mol	Chain	Res	Type	Atoms
42	1C	524	MGE	O6D-C1D-O3G-C3G
42	1k	101	MGE	C2A-C1A-O1G-C1G
42	1k	101	MGE	O1A-C1A-O1G-C1G
42	1k	101	MGE	O6D-C1D-O3G-C3G
42	1s	320	MGE	C2A-C1A-O1G-C1G
42	1s	320	MGE	O1A-C1A-O1G-C1G
42	1s	320	MGE	C2B-C1B-O2G-C2G
42	1s	320	MGE	O1B-C1B-O2G-C2G
43	1C	515	LNL	C12-C13-C14-C15
45	1E	103	HEM	C2B-C3B-CAB-CBB
45	1E	103	HEM	C4B-C3B-CAB-CBB
45	1E	103	HEM	C2C-C3C-CAC-CBC
45	1E	103	HEM	C4C-C3C-CAC-CBC
45	1f	101	HEM	C2B-C3B-CAB-CBB
45	1f	101	HEM	C4B-C3B-CAB-CBB
45	1f	101	HEM	C2C-C3C-CAC-CBC
45	1f	101	HEM	C4C-C3C-CAC-CBC
46	1G	617	XAT	O4-C6-C7-C8
46	1G	617	XAT	O24-C26-C27-C28
46	1G	619	XAT	C11-C12-C13-C14
46	1G	619	XAT	C11-C12-C13-C20
46	1G	619	XAT	O24-C26-C27-C28
46	1G	619	XAT	C27-C28-C29-C30
46	1G	619	XAT	C27-C28-C29-C39
46	1g	617	XAT	O4-C6-C7-C8
46	1g	617	XAT	C27-C28-C29-C30
46	1g	617	XAT	C27-C28-C29-C39
46	1g	617	XAT	C29-C30-C31-C32
46	1g	617	XAT	C31-C32-C33-C40
46	1g	619	XAT	C11-C12-C13-C14
46	1g	619	XAT	C11-C12-C13-C20
46	1g	619	XAT	C27-C28-C29-C30
46	1g	619	XAT	C27-C28-C29-C39
46	1r	316	XAT	C27-C28-C29-C30
46	1r	316	XAT	C27-C28-C29-C39
47	1X	101	3PH	C1-O11-P-O13
47	1X	101	3PH	C1-O11-P-O14
47	1X	101	3PH	O21-C2-C3-O31
47	1X	101	3PH	C22-C21-O21-C2
29	1a	405	CLA	O1D-CGD-O2D-CED
29	1b	612	CLA	O1D-CGD-O2D-CED
29	1r	308	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	03	305	CHL	O1D-CGD-O2D-CED
30	1n	607	CHL	C15-C16-C17-C18
29	1B	603	CLA	O1D-CGD-O2D-CED
29	1b	614	CLA	O1D-CGD-O2D-CED
29	1c	511	CLA	O1D-CGD-O2D-CED
30	00	307	CHL	O1D-CGD-O2D-CED
30	09	307	CHL	O1D-CGD-O2D-CED
30	1G	607	CHL	O1D-CGD-O2D-CED
29	02	613	CLA	CBD-CGD-O2D-CED
29	06	602	CLA	CBD-CGD-O2D-CED
29	1A	404	CLA	CBD-CGD-O2D-CED
29	1B	603	CLA	CBD-CGD-O2D-CED
29	1B	608	CLA	CBD-CGD-O2D-CED
29	1B	611	CLA	CBD-CGD-O2D-CED
29	1C	506	CLA	CBD-CGD-O2D-CED
29	1C	507	CLA	CBD-CGD-O2D-CED
29	1C	510	CLA	CBD-CGD-O2D-CED
29	1D	405	CLA	CBD-CGD-O2D-CED
29	1b	614	CLA	CBD-CGD-O2D-CED
29	1c	509	CLA	CBD-CGD-O2D-CED
29	1n	603	CLA	CBD-CGD-O2D-CED
29	1n	610	CLA	CBD-CGD-O2D-CED
29	1s	313	CLA	CBD-CGD-O2D-CED
30	00	305	CHL	CBD-CGD-O2D-CED
30	00	306	CHL	CBD-CGD-O2D-CED
30	00	307	CHL	CBD-CGD-O2D-CED
30	01	306	CHL	CBD-CGD-O2D-CED
30	02	607	CHL	CBD-CGD-O2D-CED
30	03	305	CHL	CBD-CGD-O2D-CED
30	03	311	CHL	CBD-CGD-O2D-CED
30	04	302	CHL	CBD-CGD-O2D-CED
30	09	306	CHL	CBD-CGD-O2D-CED
30	09	307	CHL	CBD-CGD-O2D-CED
30	1N	302	CHL	CBD-CGD-O2D-CED
30	1S	308	CHL	CBD-CGD-O2D-CED
30	1n	607	CHL	CBD-CGD-O2D-CED
30	1n	608	CHL	CBD-CGD-O2D-CED
30	1r	306	CHL	CBD-CGD-O2D-CED
29	1b	613	CLA	O1A-CGA-O2A-C1
29	1r	308	CLA	O1A-CGA-O2A-C1
29	1A	404	CLA	O1D-CGD-O2D-CED
29	1B	611	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
29	1D	405	CLA	O1D-CGD-O2D-CED
29	1b	606	CLA	O1D-CGD-O2D-CED
30	00	306	CHL	O1D-CGD-O2D-CED
30	04	302	CHL	O1D-CGD-O2D-CED
30	1n	608	CHL	O1D-CGD-O2D-CED
29	02	613	CLA	O1D-CGD-O2D-CED
30	05	315	CHL	O1D-CGD-O2D-CED
30	1N	309	CHL	O1D-CGD-O2D-CED
30	1S	308	CHL	O1D-CGD-O2D-CED
30	1g	608	CHL	O1D-CGD-O2D-CED
30	1r	307	CHL	O1D-CGD-O2D-CED
30	1s	309	CHL	O1D-CGD-O2D-CED
29	1b	613	CLA	CBA-CGA-O2A-C1
29	1r	308	CLA	CBA-CGA-O2A-C1
29	00	318	CLA	CBD-CGD-O2D-CED
29	01	310	CLA	CBD-CGD-O2D-CED
29	09	317	CLA	CBD-CGD-O2D-CED
29	1B	607	CLA	CBD-CGD-O2D-CED
29	1C	508	CLA	CBD-CGD-O2D-CED
29	1G	603	CLA	CBD-CGD-O2D-CED
29	1S	305	CLA	CBD-CGD-O2D-CED
29	1b	610	CLA	CBD-CGD-O2D-CED
29	1c	508	CLA	CBD-CGD-O2D-CED
29	1g	611	CLA	CBD-CGD-O2D-CED
29	1s	305	CLA	CBD-CGD-O2D-CED
29	1s	312	CLA	CBD-CGD-O2D-CED
30	02	601	CHL	CBD-CGD-O2D-CED
30	03	304	CHL	CBD-CGD-O2D-CED
30	04	301	CHL	CBD-CGD-O2D-CED
30	05	305	CHL	CBD-CGD-O2D-CED
30	09	308	CHL	CBD-CGD-O2D-CED
30	1S	309	CHL	CBD-CGD-O2D-CED
30	1r	305	CHL	CBD-CGD-O2D-CED
30	1s	304	CHL	CBD-CGD-O2D-CED
29	00	310	CLA	O1A-CGA-O2A-C1
29	1c	507	CLA	O1A-CGA-O2A-C1
30	00	306	CHL	O1A-CGA-O2A-C1
29	1N	311	CLA	O1D-CGD-O2D-CED
30	01	304	CHL	O1D-CGD-O2D-CED
30	1G	608	CHL	O1D-CGD-O2D-CED
30	1g	607	CHL	O1D-CGD-O2D-CED
29	1G	612	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
29	1c	504	CLA	CBD-CGD-O2D-CED
29	1c	505	CLA	CBD-CGD-O2D-CED
29	1g	602	CLA	CBD-CGD-O2D-CED
30	09	305	CHL	CBD-CGD-O2D-CED
29	1n	614	CLA	O1D-CGD-O2D-CED
47	1X	101	3PH	O22-C21-O21-C2
29	01	301	CLA	C3-C5-C6-C7
29	01	310	CLA	C3-C5-C6-C7
29	03	301	CLA	C3-C5-C6-C7
29	1B	605	CLA	C3-C5-C6-C7
29	1B	608	CLA	C3-C5-C6-C7
29	1B	609	CLA	C3-C5-C6-C7
29	1B	613	CLA	C3-C5-C6-C7
29	1C	502	CLA	C3-C5-C6-C7
29	1C	505	CLA	C3-C5-C6-C7
29	1C	507	CLA	C3-C5-C6-C7
29	1R	302	CLA	C3-C5-C6-C7
29	1b	606	CLA	C3-C5-C6-C7
29	1b	612	CLA	C3-C5-C6-C7
29	1b	615	CLA	C3-C5-C6-C7
29	1c	504	CLA	C3-C5-C6-C7
29	1c	509	CLA	C3-C5-C6-C7
29	1d	406	CLA	C3-C5-C6-C7
29	1g	602	CLA	C3-C5-C6-C7
29	1n	602	CLA	C3-C5-C6-C7
30	00	306	CHL	C3-C5-C6-C7
30	00	307	CHL	C3-C5-C6-C7
30	01	304	CHL	C3-C5-C6-C7
30	1N	302	CHL	C3-C5-C6-C7
30	1n	607	CHL	C3-C5-C6-C7
30	00	306	CHL	CBA-CGA-O2A-C1
29	08	309	CLA	C2C-C3C-CAC-CBC
29	06	602	CLA	O1D-CGD-O2D-CED
29	1R	306	CLA	O1D-CGD-O2D-CED
29	1g	613	CLA	O1D-CGD-O2D-CED
29	1n	610	CLA	O1D-CGD-O2D-CED
30	02	607	CHL	O1D-CGD-O2D-CED
30	1n	607	CHL	O1D-CGD-O2D-CED
29	00	312	CLA	CBD-CGD-O2D-CED
29	09	310	CLA	CBD-CGD-O2D-CED
29	1B	601	CLA	CBD-CGD-O2D-CED
29	1g	614	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
29	1C	505	CLA	O1A-CGA-O2A-C1
29	1a	405	CLA	C3-C5-C6-C7
29	1r	308	CLA	C3-C5-C6-C7
29	1B	612	CLA	C4-C3-C5-C6
29	1C	504	CLA	C4-C3-C5-C6
29	1C	507	CLA	C4-C3-C5-C6
29	1C	512	CLA	C4-C3-C5-C6
29	1n	610	CLA	C4-C3-C5-C6
30	05	305	CHL	C4-C3-C5-C6
29	01	301	CLA	C2-C3-C5-C6
29	06	602	CLA	C2-C3-C5-C6
29	1B	612	CLA	C2-C3-C5-C6
29	1c	506	CLA	C2-C3-C5-C6
29	1n	610	CLA	C2-C3-C5-C6
30	05	305	CHL	C2-C3-C5-C6
40	1R	301	PL9	C18-C19-C21-C22
40	1a	412	PL9	C18-C19-C21-C22
40	1r	301	PL9	C33-C34-C36-C37
40	1r	301	PL9	C38-C39-C41-C42
29	1C	503	CLA	CBD-CGD-O2D-CED
29	1N	304	CLA	CBD-CGD-O2D-CED
29	1N	315	CLA	CBD-CGD-O2D-CED
29	1n	613	CLA	CBD-CGD-O2D-CED
30	01	302	CHL	CBD-CGD-O2D-CED
30	05	307	CHL	CBD-CGD-O2D-CED
30	1g	605	CHL	CBD-CGD-O2D-CED
30	1n	609	CHL	CBD-CGD-O2D-CED
29	03	309	CLA	C2A-CAA-CBA-CGA
29	1B	604	CLA	C2A-CAA-CBA-CGA
29	1C	512	CLA	C2A-CAA-CBA-CGA
29	1b	607	CLA	C2A-CAA-CBA-CGA
30	00	304	CHL	C2A-CAA-CBA-CGA
30	01	304	CHL	C2A-CAA-CBA-CGA
30	03	303	CHL	C2A-CAA-CBA-CGA
30	04	303	CHL	C2A-CAA-CBA-CGA
30	1R	313	CHL	C2A-CAA-CBA-CGA
30	1g	605	CHL	C2A-CAA-CBA-CGA
30	1g	607	CHL	C2A-CAA-CBA-CGA
30	1n	607	CHL	C2A-CAA-CBA-CGA
30	00	305	CHL	O1D-CGD-O2D-CED
30	09	306	CHL	O1D-CGD-O2D-CED
29	00	301	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
29	00	318	CLA	C3-C5-C6-C7
29	1B	601	CLA	C3-C5-C6-C7
29	1B	603	CLA	C3-C5-C6-C7
29	1B	606	CLA	C3-C5-C6-C7
29	1B	612	CLA	C3-C5-C6-C7
29	1C	509	CLA	C3-C5-C6-C7
29	1b	608	CLA	C3-C5-C6-C7
29	1c	512	CLA	C3-C5-C6-C7
29	1n	603	CLA	C3-C5-C6-C7
30	1N	308	CHL	C3-C5-C6-C7
30	1g	601	CHL	C3-C5-C6-C7
29	00	310	CLA	CBA-CGA-O2A-C1
29	1b	615	CLA	CBA-CGA-O2A-C1
29	1c	507	CLA	CBA-CGA-O2A-C1
30	1G	601	CHL	CBA-CGA-O2A-C1
29	1s	313	CLA	O1D-CGD-O2D-CED
29	07	308	CLA	CBD-CGD-O2D-CED
29	1G	602	CLA	CBD-CGD-O2D-CED
29	08	309	CLA	C4C-C3C-CAC-CBC
30	1N	302	CHL	O1D-CGD-O2D-CED
31	1g	616	LUT	C13-C14-C15-C35
31	1g	616	LUT	C33-C34-C35-C15
35	1b	601	BCR	C19-C20-C21-C22
35	1k	102	BCR	C19-C20-C21-C22
46	1G	619	XAT	C13-C14-C15-C35
29	01	307	CLA	CBD-CGD-O2D-CED
29	01	308	CLA	CBD-CGD-O2D-CED
29	09	309	CLA	CBD-CGD-O2D-CED
29	1B	609	CLA	CBD-CGD-O2D-CED
29	1C	511	CLA	CBD-CGD-O2D-CED
29	1D	402	CLA	CBD-CGD-O2D-CED
29	1n	602	CLA	CBD-CGD-O2D-CED
30	06	606	CHL	CBD-CGD-O2D-CED
30	1G	609	CHL	CBD-CGD-O2D-CED
30	1N	307	CHL	CBD-CGD-O2D-CED
30	1n	605	CHL	CBD-CGD-O2D-CED
30	1n	606	CHL	CBD-CGD-O2D-CED
29	1C	510	CLA	O1D-CGD-O2D-CED
33	1C	527	LHG	O2-C2-C3-O3
29	1B	607	CLA	C3-C5-C6-C7
29	1B	616	CLA	C3-C5-C6-C7
29	1b	602	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
29	1c	503	CLA	C3-C5-C6-C7
29	1g	612	CLA	C3-C5-C6-C7
30	1G	607	CHL	C3-C5-C6-C7
29	1C	508	CLA	CBA-CGA-O2A-C1
30	1n	609	CHL	CBA-CGA-O2A-C1
29	1C	508	CLA	O1A-CGA-O2A-C1
29	1C	506	CLA	O1D-CGD-O2D-CED
29	1R	308	CLA	CBD-CGD-O2D-CED
29	1b	603	CLA	CBD-CGD-O2D-CED
29	1b	615	CLA	CBD-CGD-O2D-CED
29	1g	603	CLA	CBD-CGD-O2D-CED
30	00	308	CHL	CBD-CGD-O2D-CED
30	06	601	CHL	CBD-CGD-O2D-CED
30	1g	601	CHL	CBD-CGD-O2D-CED
30	1s	308	CHL	CBD-CGD-O2D-CED
30	01	306	CHL	O1D-CGD-O2D-CED
30	03	311	CHL	O1D-CGD-O2D-CED
30	1g	609	CHL	CBD-CGD-O2D-CED
29	01	308	CLA	C3-C5-C6-C7
29	1b	613	CLA	C3-C5-C6-C7
30	1g	609	CHL	C3-C5-C6-C7
29	1C	505	CLA	CBA-CGA-O2A-C1
33	1C	522	LHG	C2-C3-O3-P
29	1b	615	CLA	O1A-CGA-O2A-C1
30	1G	601	CHL	O1A-CGA-O2A-C1
30	1n	609	CHL	O1A-CGA-O2A-C1
29	1B	601	CLA	C4-C3-C5-C6
29	1B	602	CLA	C4-C3-C5-C6
29	1b	604	CLA	C4-C3-C5-C6
29	1b	613	CLA	C4-C3-C5-C6
30	00	307	CHL	C4-C3-C5-C6
40	1A	410	PL9	C12-C11-C9-C10
40	1A	410	PL9	C30-C29-C31-C32
40	1R	301	PL9	C15-C14-C16-C17
40	1R	301	PL9	C40-C39-C41-C42
29	1B	601	CLA	C2-C3-C5-C6
29	1B	602	CLA	C2-C3-C5-C6
29	1B	611	CLA	C2-C3-C5-C6
29	1b	604	CLA	C2-C3-C5-C6
29	1b	613	CLA	C2-C3-C5-C6
30	00	307	CHL	C2-C3-C5-C6
40	1A	410	PL9	C12-C11-C9-C8

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Mol	Chain	Res	Type	Atoms
40	1A	410	PL9	C13-C14-C16-C17
40	1A	410	PL9	C28-C29-C31-C32
40	1R	301	PL9	C13-C14-C16-C17
40	1R	301	PL9	C38-C39-C41-C42
30	01	302	CHL	C2A-CAA-CBA-CGA
30	05	304	CHL	C2A-CAA-CBA-CGA
30	05	305	CHL	C2A-CAA-CBA-CGA
30	06	605	CHL	C2A-CAA-CBA-CGA
30	08	303	CHL	C2A-CAA-CBA-CGA
30	1N	307	CHL	C2A-CAA-CBA-CGA
30	1r	306	CHL	C2A-CAA-CBA-CGA
34	1B	627	DGD	O6D-C1D-O3G-C3G
40	1a	412	PL9	C19-C21-C22-C23
40	1r	301	PL9	C24-C26-C27-C28
32	09	315	VIV	C9-C15-C16-C17
34	1B	626	DGD	O6D-C5D-C6D-O5D
29	1c	509	CLA	O1D-CGD-O2D-CED
29	1n	603	CLA	O1D-CGD-O2D-CED
30	1r	306	CHL	O1D-CGD-O2D-CED
30	1s	304	CHL	O1D-CGD-O2D-CED
29	01	310	CLA	O1D-CGD-O2D-CED
29	1B	608	CLA	O1D-CGD-O2D-CED
29	1S	305	CLA	O1D-CGD-O2D-CED
30	1S	309	CHL	O1D-CGD-O2D-CED
29	1b	616	CLA	CBD-CGD-O2D-CED
33	1a	413	LHG	C27-C28-C29-C30
33	1W	102	LHG	C1-C2-C3-O3
29	00	301	CLA	CBA-CGA-O2A-C1
29	1B	603	CLA	CBA-CGA-O2A-C1
29	1B	612	CLA	CBA-CGA-O2A-C1
29	1g	604	CLA	CBA-CGA-O2A-C1
30	00	307	CHL	CBA-CGA-O2A-C1
33	1a	413	LHG	C10-C11-C12-C13
29	1C	507	CLA	O1D-CGD-O2D-CED
29	1b	611	CLA	C13-C15-C16-C17
30	00	307	CHL	C15-C16-C17-C18
33	1a	413	LHG	O2-C2-C3-O3
29	1r	312	CLA	C3-C5-C6-C7
29	1B	607	CLA	O1D-CGD-O2D-CED
41	1A	413	SQD	C2-C1-O6-C44
41	1D	412	SQD	C2-C1-O6-C44
41	1b	622	SQD	C2-C1-O6-C44

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Mol	Chain	Res	Type	Atoms
42	1C	524	MGE	C2D-C1D-O3G-C3G
29	1C	504	CLA	C2-C3-C5-C6
29	1C	507	CLA	C2-C3-C5-C6
29	00	318	CLA	C6-C7-C8-C9
29	1D	404	CLA	C6-C7-C8-C9
29	1D	404	CLA	C11-C12-C13-C14
29	1D	404	CLA	C14-C13-C15-C16
30	00	308	CHL	C6-C7-C8-C9
30	01	306	CHL	C11-C10-C8-C9
30	09	308	CHL	C6-C7-C8-C9
30	1G	607	CHL	C11-C12-C13-C14
30	1N	302	CHL	C11-C12-C13-C14
30	1N	310	CHL	C11-C12-C13-C14
30	1n	609	CHL	C11-C10-C8-C9
29	1C	508	CLA	O1D-CGD-O2D-CED
29	1g	611	CLA	O1D-CGD-O2D-CED
30	09	308	CHL	O1D-CGD-O2D-CED
29	1d	407	CLA	CBD-CGD-O2D-CED
29	1g	614	CLA	C2A-CAA-CBA-CGA
31	05	314	LUT	C7-C8-C9-C19
31	1s	317	LUT	C7-C8-C9-C19
35	04	313	BCR	C37-C22-C23-C24
35	1B	619	BCR	C7-C8-C9-C34
35	1H	101	BCR	C37-C22-C23-C24
35	1J	101	BCR	C7-C8-C9-C34
35	1J	101	BCR	C37-C22-C23-C24
35	1Z	102	BCR	C7-C8-C9-C34
35	1b	620	BCR	C37-C22-C23-C24
35	1h	101	BCR	C7-C8-C9-C34
46	1G	617	XAT	C7-C8-C9-C19
46	1G	619	XAT	C31-C32-C33-C40
46	1R	316	XAT	C27-C28-C29-C39
46	1g	617	XAT	C7-C8-C9-C19
46	1g	619	XAT	C7-C8-C9-C19
31	05	314	LUT	C7-C8-C9-C10
35	04	313	BCR	C21-C22-C23-C24
35	1J	101	BCR	C21-C22-C23-C24
35	1Z	102	BCR	C7-C8-C9-C10
35	1h	101	BCR	C7-C8-C9-C10
46	1G	617	XAT	C7-C8-C9-C10
46	1R	316	XAT	C27-C28-C29-C30
46	1g	617	XAT	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
46	1g	619	XAT	C7-C8-C9-C10
34	00	320	DGD	C2B-C1B-O2G-C2G
34	1c	518	DGD	C2B-C1B-O2G-C2G
33	09	318	LHG	C7-C8-C9-C10
29	1g	604	CLA	O1A-CGA-O2A-C1
29	1B	602	CLA	C5-C6-C7-C8
30	01	306	CHL	C10-C11-C12-C13
30	1N	308	CHL	C10-C11-C12-C13
29	00	318	CLA	O1D-CGD-O2D-CED
30	1N	306	CHL	CBD-CGD-O2D-CED
29	1s	312	CLA	O1D-CGD-O2D-CED
30	1r	305	CHL	O1D-CGD-O2D-CED
29	09	301	CLA	C3-C5-C6-C7
30	1g	601	CHL	C8-C10-C11-C12
29	1R	302	CLA	CBA-CGA-O2A-C1
29	1C	508	CLA	C10-C11-C12-C13
29	1D	401	CLA	C10-C11-C12-C13
29	1G	602	CLA	C5-C6-C7-C8
29	1b	609	CLA	C5-C6-C7-C8
30	01	306	CHL	C5-C6-C7-C8
30	05	305	CHL	C5-C6-C7-C8
30	1G	607	CHL	C13-C15-C16-C17
30	1N	308	CHL	C8-C10-C11-C12
34	1C	516	DGD	C1A-C2A-C3A-C4A
43	1C	515	LNL	C1-C2-C3-C4
30	1N	309	CHL	C2A-CAA-CBA-CGA
29	00	302	CLA	C10-C11-C12-C13
29	1B	605	CLA	C10-C11-C12-C13
29	1B	610	CLA	C13-C15-C16-C17
29	1C	502	CLA	C8-C10-C11-C12
29	1C	504	CLA	C13-C15-C16-C17
29	1D	404	CLA	C13-C15-C16-C17
29	1b	615	CLA	C8-C10-C11-C12
29	1b	616	CLA	C10-C11-C12-C13
29	1g	602	CLA	C8-C10-C11-C12
30	1G	601	CHL	C5-C6-C7-C8
30	1N	310	CHL	C8-C10-C11-C12
30	1g	609	CHL	C8-C10-C11-C12
30	1n	609	CHL	C8-C10-C11-C12
30	04	301	CHL	O1D-CGD-O2D-CED
34	1c	518	DGD	C1B-C2B-C3B-C4B
29	1b	608	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
29	1b	611	CLA	CBD-CGD-O2D-CED
29	1r	314	CLA	CBD-CGD-O2D-CED
30	03	304	CHL	O1D-CGD-O2D-CED
29	1b	611	CLA	C8-C10-C11-C12
29	1g	602	CLA	C5-C6-C7-C8
29	1g	610	CLA	CBA-CGA-O2A-C1
29	09	317	CLA	O1D-CGD-O2D-CED
29	1c	508	CLA	O1D-CGD-O2D-CED
30	05	305	CHL	O1D-CGD-O2D-CED
34	1C	516	DGD	O6E-C5E-C6E-O5E
29	00	309	CLA	C8-C10-C11-C12
29	03	301	CLA	C8-C10-C11-C12
29	1B	613	CLA	C8-C10-C11-C12
30	00	308	CHL	C15-C16-C17-C18
29	1b	610	CLA	O1D-CGD-O2D-CED
33	1e	102	LHG	C23-C24-C25-C26
33	1n	616	LHG	C23-C24-C25-C26
33	1w	102	LHG	C7-C8-C9-C10
29	05	301	CLA	CBD-CGD-O2D-CED
30	01	304	CHL	C13-C15-C16-C17
30	05	305	CHL	C13-C15-C16-C17
29	1N	314	CLA	C3-C5-C6-C7
32	09	315	VIV	C18-C20-C21-C22
30	02	601	CHL	O1D-CGD-O2D-CED
30	09	305	CHL	O1D-CGD-O2D-CED
29	1b	611	CLA	C6-C7-C8-C10
30	00	307	CHL	C6-C7-C8-C10
30	1n	609	CHL	C11-C10-C8-C7
30	00	307	CHL	O1A-CGA-O2A-C1
46	1G	617	XAT	C29-C30-C31-C32
46	1G	619	XAT	C9-C10-C11-C12
46	1G	619	XAT	C33-C34-C35-C15
46	1g	619	XAT	C9-C10-C11-C12
46	1g	619	XAT	C29-C30-C31-C32
29	00	301	CLA	C2A-CAA-CBA-CGA
29	1b	613	CLA	C2A-CAA-CBA-CGA
29	1c	503	CLA	C2A-CAA-CBA-CGA
29	1c	515	CLA	C2A-CAA-CBA-CGA
30	1r	305	CHL	C2A-CAA-CBA-CGA
30	1r	307	CHL	C2A-CAA-CBA-CGA
30	1r	313	CHL	C2A-CAA-CBA-CGA
29	1G	603	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
29	1s	305	CLA	O1D-CGD-O2D-CED
29	1B	609	CLA	C13-C15-C16-C17
29	1c	514	CLA	C10-C11-C12-C13
30	1G	607	CHL	C8-C10-C11-C12
29	1R	312	CLA	CBA-CGA-O2A-C1
29	1B	612	CLA	O1A-CGA-O2A-C1
29	1B	612	CLA	CBD-CGD-O2D-CED
29	1g	604	CLA	CBD-CGD-O2D-CED
34	1c	519	DGD	O6E-C1E-O5D-C6D
29	1C	508	CLA	C8-C10-C11-C12
30	1N	302	CHL	C10-C11-C12-C13
40	1A	410	PL9	C24-C26-C27-C28
40	1E	102	PL9	C14-C16-C17-C18
40	1a	412	PL9	C14-C16-C17-C18
41	1C	521	SQD	C23-C24-C25-C26
29	1d	407	CLA	C3-C5-C6-C7
29	1B	601	CLA	C13-C15-C16-C17
29	1C	501	CLA	C5-C6-C7-C8
29	1C	509	CLA	C8-C10-C11-C12
29	1b	613	CLA	C5-C6-C7-C8
29	1c	505	CLA	C13-C15-C16-C17
30	00	307	CHL	C5-C6-C7-C8
30	01	304	CHL	C8-C10-C11-C12
33	1a	413	LHG	C24-C23-O8-C6
29	1N	303	CLA	CBD-CGD-O2D-CED
29	00	301	CLA	O1A-CGA-O2A-C1
29	1B	603	CLA	O1A-CGA-O2A-C1
29	1g	610	CLA	O1A-CGA-O2A-C1
33	00	321	LHG	C23-C24-C25-C26
30	00	306	CHL	C8-C10-C11-C12
30	00	306	CHL	C13-C15-C16-C17
30	1N	302	CHL	C13-C15-C16-C17
30	1N	308	CHL	C15-C16-C17-C18
30	1N	310	CHL	C5-C6-C7-C8
30	1n	607	CHL	C13-C15-C16-C17
29	1d	407	CLA	C5-C6-C7-C8
33	1D	409	LHG	C4-O6-P-O3
33	1N	301	LHG	C3-O3-P-O6
33	1S	319	LHG	C3-O3-P-O6
33	1W	101	LHG	C3-O3-P-O6
33	1d	401	LHG	C3-O3-P-O6
33	1g	618	LHG	C4-O6-P-O3

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Mol	Chain	Res	Type	Atoms
33	1w	104	LHG	C3-O3-P-O6
42	1s	320	MGE	C1B-C2B-C3B-C4B
29	1c	508	CLA	C3-C5-C6-C7
29	1B	605	CLA	CBA-CGA-O2A-C1
29	1B	610	CLA	CBA-CGA-O2A-C1
29	1N	303	CLA	CBA-CGA-O2A-C1
29	1b	608	CLA	CBA-CGA-O2A-C1
30	1N	308	CHL	CBA-CGA-O2A-C1
30	1g	609	CHL	CBA-CGA-O2A-C1
30	1g	606	CHL	CBD-CGD-O2D-CED
29	1b	611	CLA	C15-C16-C17-C18
29	1c	505	CLA	O1D-CGD-O2D-CED
41	1B	622	SQD	C7-C8-C9-C10
29	1c	504	CLA	O1D-CGD-O2D-CED
29	1n	613	CLA	O1D-CGD-O2D-CED
33	1C	527	LHG	C1-C2-C3-O3
34	00	320	DGD	O1B-C1B-O2G-C2G
34	1c	518	DGD	O1B-C1B-O2G-C2G
29	1B	603	CLA	C4-C3-C5-C6
29	1g	613	CLA	C4-C3-C5-C6
30	00	306	CHL	C4-C3-C5-C6
40	1e	101	PL9	C12-C11-C9-C10
29	1C	512	CLA	C2-C3-C5-C6
33	1C	525	LHG	C25-C26-C27-C28
30	05	307	CHL	O1D-CGD-O2D-CED
30	1n	609	CHL	O1D-CGD-O2D-CED
29	01	301	CLA	C2A-CAA-CBA-CGA
29	01	310	CLA	C2A-CAA-CBA-CGA
29	1G	602	CLA	C2A-CAA-CBA-CGA
29	1R	309	CLA	C2A-CAA-CBA-CGA
29	1b	615	CLA	C2A-CAA-CBA-CGA
30	01	303	CHL	C2A-CAA-CBA-CGA
30	06	601	CHL	C2A-CAA-CBA-CGA
30	1g	606	CHL	C2A-CAA-CBA-CGA
29	1B	606	CLA	C16-C17-C18-C19
29	1B	602	CLA	C3-C5-C6-C7
29	1C	501	CLA	C3-C5-C6-C7
30	1n	601	CHL	C3-C5-C6-C7
29	00	302	CLA	CBA-CGA-O2A-C1
29	1C	512	CLA	CBA-CGA-O2A-C1
29	1b	603	CLA	CBA-CGA-O2A-C1
29	1d	407	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
30	00	308	CHL	CBA-CGA-O2A-C1
29	1G	612	CLA	O1D-CGD-O2D-CED
46	1g	617	XAT	C33-C34-C35-C15
42	1s	320	MGE	C6B-C7B-C8B-C9B
30	01	302	CHL	O1D-CGD-O2D-CED
29	00	309	CLA	CBD-CGD-O2D-CED
29	1c	508	CLA	C5-C6-C7-C8
29	1d	403	CLA	C5-C6-C7-C8
33	01	316	LHG	C11-C10-C9-C8
33	01	316	LHG	C15-C16-C17-C18
33	07	314	LHG	C26-C27-C28-C29
33	1K	101	LHG	C26-C27-C28-C29
33	1W	102	LHG	C25-C26-C27-C28
33	1c	521	LHG	C11-C12-C13-C14
33	1c	522	LHG	C24-C25-C26-C27
33	1j	102	LHG	C10-C11-C12-C13
34	1A	414	DGD	C2A-C3A-C4A-C5A
41	1A	411	SQD	C9-C10-C11-C12
41	1A	413	SQD	C26-C27-C28-C29
41	1b	622	SQD	C29-C30-C31-C32
42	1k	101	MGE	C3B-C4B-C5B-C6B
29	00	312	CLA	O1D-CGD-O2D-CED
29	1g	602	CLA	O1D-CGD-O2D-CED
30	1g	605	CHL	O1D-CGD-O2D-CED
34	1B	625	DGD	C3B-C4B-C5B-C6B
34	1B	627	DGD	C9A-CAA-CBA-CCA
30	1n	601	CHL	CBD-CGD-O2D-CED
34	1C	517	DGD	C4B-C5B-C6B-C7B
41	1a	411	SQD	C13-C14-C15-C16
33	01	316	LHG	C2-C3-O3-P
33	1C	519	LHG	C2-C3-O3-P
33	1C	519	LHG	C5-C4-O6-P
33	1B	621	LHG	C13-C14-C15-C16
33	1J	102	LHG	C31-C32-C33-C34
29	1C	503	CLA	O1D-CGD-O2D-CED
33	1a	413	LHG	C11-C12-C13-C14
33	1c	522	LHG	C25-C26-C27-C28
29	1c	515	CLA	C3-C5-C6-C7
33	1g	618	LHG	C7-C8-C9-C10
34	1B	626	DGD	C1A-C2A-C3A-C4A
34	1S	320	DGD	C1A-C2A-C3A-C4A
41	1B	622	SQD	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
29	1B	601	CLA	O1D-CGD-O2D-CED
29	1N	304	CLA	O1D-CGD-O2D-CED
29	1N	315	CLA	O1D-CGD-O2D-CED
34	1B	626	DGD	C2D-C1D-O3G-C3G
34	1c	519	DGD	C2E-C1E-O5D-C6D
34	1B	626	DGD	O1G-C1G-C2G-O2G
29	1G	602	CLA	CBA-CGA-O2A-C1
33	03	314	LHG	C15-C16-C17-C18
33	1C	527	LHG	C13-C14-C15-C16
41	1D	411	SQD	C28-C29-C30-C31
29	1c	503	CLA	C5-C6-C7-C8
29	1C	512	CLA	O1A-CGA-O2A-C1
29	1d	407	CLA	O1A-CGA-O2A-C1
30	00	308	CHL	O1A-CGA-O2A-C1
30	1N	308	CHL	C16-C17-C18-C19
29	01	308	CLA	O1D-CGD-O2D-CED
29	07	308	CLA	O1D-CGD-O2D-CED
29	1c	512	CLA	C4-C3-C5-C6
34	1B	625	DGD	CAA-CBA-CCA-CDA
29	1c	512	CLA	C2-C3-C5-C6
40	1e	101	PL9	C12-C11-C9-C8
29	1b	615	CLA	C11-C12-C13-C14
30	00	306	CHL	C11-C12-C13-C14
30	00	307	CHL	C6-C7-C8-C9
30	1N	310	CHL	C11-C10-C8-C9
30	1n	607	CHL	C14-C13-C15-C16
33	1v	201	LHG	C7-C8-C9-C10
43	1c	501	LNL	C1-C2-C3-C4
33	1C	525	LHG	C10-C11-C12-C13
33	1J	102	LHG	C33-C34-C35-C36
33	1d	401	LHG	C10-C11-C12-C13
33	1s	319	LHG	C11-C12-C13-C14
34	1C	518	DGD	C5A-C6A-C7A-C8A
29	1r	314	CLA	CBA-CGA-O2A-C1
29	1B	601	CLA	C2A-CAA-CBA-CGA
29	1R	308	CLA	C2A-CAA-CBA-CGA
29	1R	314	CLA	C2A-CAA-CBA-CGA
29	1c	508	CLA	C2A-CAA-CBA-CGA
29	1s	305	CLA	C2A-CAA-CBA-CGA
29	1B	605	CLA	O1A-CGA-O2A-C1
29	1B	610	CLA	O1A-CGA-O2A-C1
29	1N	303	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
29	1R	302	CLA	O1A-CGA-O2A-C1
35	1I	102	BCR	C37-C22-C23-C24
33	1b	628	LHG	C11-C10-C9-C8
33	1a	413	LHG	O1-C1-C2-C3
29	1C	512	CLA	C3-C5-C6-C7
29	1G	602	CLA	C3-C5-C6-C7
29	1G	612	CLA	C3-C5-C6-C7
29	01	308	CLA	C5-C6-C7-C8
33	1t	101	LHG	C13-C14-C15-C16
34	1b	627	DGD	CAB-CBB-CCB-CDB
41	1B	628	SQD	C24-C25-C26-C27
33	00	319	LHG	C23-C24-C25-C26
29	1g	614	CLA	O1D-CGD-O2D-CED
33	1F	101	LHG	C9-C10-C11-C12
34	1c	519	DGD	C4B-C5B-C6B-C7B
41	1b	622	SQD	C24-C25-C26-C27
29	01	309	CLA	C4B-C3B-CAB-CBB
29	02	614	CLA	C4B-C3B-CAB-CBB
29	04	306	CLA	C4B-C3B-CAB-CBB
29	09	309	CLA	C4B-C3B-CAB-CBB
29	1D	404	CLA	C4B-C3B-CAB-CBB
29	1G	602	CLA	C4B-C3B-CAB-CBB
29	1G	604	CLA	C4B-C3B-CAB-CBB
29	1N	314	CLA	C4B-C3B-CAB-CBB
29	1S	306	CLA	C4B-C3B-CAB-CBB
29	1b	612	CLA	C4B-C3B-CAB-CBB
29	1c	509	CLA	C4B-C3B-CAB-CBB
29	1g	602	CLA	C4B-C3B-CAB-CBB
29	1r	302	CLA	C4B-C3B-CAB-CBB
29	1r	309	CLA	C4B-C3B-CAB-CBB
30	00	306	CHL	C4B-C3B-CAB-CBB
30	02	605	CHL	C4B-C3B-CAB-CBB
30	03	311	CHL	C4B-C3B-CAB-CBB
30	09	306	CHL	C4B-C3B-CAB-CBB
30	1G	607	CHL	C4B-C3B-CAB-CBB
30	1s	304	CHL	C4B-C3B-CAB-CBB
30	1n	607	CHL	C16-C17-C18-C19
34	1B	626	DGD	O6D-C1D-O3G-C3G
34	1B	626	DGD	O6E-C1E-O5D-C6D
29	1C	509	CLA	C10-C11-C12-C13
30	01	306	CHL	C8-C10-C11-C12
30	1N	310	CHL	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
40	1E	102	PL9	C44-C46-C47-C48
40	1R	301	PL9	C44-C46-C47-C48
29	1C	505	CLA	CBD-CGD-O2D-CED
29	09	310	CLA	O1D-CGD-O2D-CED
30	06	606	CHL	O1D-CGD-O2D-CED
30	1n	605	CHL	O1D-CGD-O2D-CED
33	00	319	LHG	C25-C26-C27-C28
33	1F	101	LHG	C14-C15-C16-C17
33	1n	616	LHG	C13-C14-C15-C16
29	1C	501	CLA	C10-C11-C12-C13
29	1g	602	CLA	C10-C11-C12-C13
29	1g	612	CLA	C10-C11-C12-C13
30	00	306	CHL	C15-C16-C17-C18
29	1b	603	CLA	O1A-CGA-O2A-C1
29	1b	608	CLA	O1A-CGA-O2A-C1
30	1N	308	CHL	O1A-CGA-O2A-C1
33	1a	413	LHG	C24-C25-C26-C27
34	1B	627	DGD	C5A-C6A-C7A-C8A
34	1C	516	DGD	C6B-C7B-C8B-C9B
29	1G	612	CLA	CBA-CGA-O2A-C1
30	09	308	CHL	CBA-CGA-O2A-C1
33	1a	413	LHG	C11-C10-C9-C8
42	1C	524	MGE	C3B-C4B-C5B-C6B
30	00	308	CHL	O1D-CGD-O2D-CED
30	1G	609	CHL	O1D-CGD-O2D-CED
29	00	311	CLA	C3A-C2A-CAA-CBA
29	01	313	CLA	C3A-C2A-CAA-CBA
29	02	611	CLA	C3A-C2A-CAA-CBA
29	04	309	CLA	C3A-C2A-CAA-CBA
29	1C	511	CLA	C3A-C2A-CAA-CBA
29	1D	404	CLA	C3A-C2A-CAA-CBA
29	1G	610	CLA	C3A-C2A-CAA-CBA
29	1N	304	CLA	C3A-C2A-CAA-CBA
29	1b	617	CLA	C3A-C2A-CAA-CBA
29	1g	610	CLA	C3A-C2A-CAA-CBA
30	00	304	CHL	C3A-C2A-CAA-CBA
30	00	307	CHL	C3A-C2A-CAA-CBA
30	02	601	CHL	C3A-C2A-CAA-CBA
30	02	605	CHL	C3A-C2A-CAA-CBA
30	04	301	CHL	C3A-C2A-CAA-CBA
30	05	305	CHL	C3A-C2A-CAA-CBA
30	06	601	CHL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	06	606	CHL	C3A-C2A-CAA-CBA
30	1N	308	CHL	C3A-C2A-CAA-CBA
30	1s	308	CHL	C3A-C2A-CAA-CBA
33	00	321	LHG	C25-C26-C27-C28
33	09	318	LHG	C26-C27-C28-C29
30	1n	606	CHL	CBA-CGA-O2A-C1
29	1D	402	CLA	O1D-CGD-O2D-CED
30	1g	609	CHL	O1A-CGA-O2A-C1
33	1a	413	LHG	O10-C23-O8-C6
29	01	308	CLA	C16-C17-C18-C19
29	01	308	CLA	C16-C17-C18-C20
30	00	308	CHL	C16-C17-C18-C20
33	1N	301	LHG	C28-C29-C30-C31
30	1n	606	CHL	O1D-CGD-O2D-CED
29	00	302	CLA	CBD-CGD-O2D-CED
29	1c	513	CLA	CBD-CGD-O2D-CED
30	1N	310	CHL	CBD-CGD-O2D-CED
30	1N	302	CHL	C15-C16-C17-C18
33	1V	201	LHG	C12-C13-C14-C15
29	1B	611	CLA	C3-C5-C6-C7
29	1B	609	CLA	C4-C3-C5-C6
30	1G	601	CHL	C4-C3-C5-C6
40	1a	412	PL9	C12-C11-C9-C10
29	1g	602	CLA	CBA-CGA-O2A-C1
29	1B	609	CLA	C2-C3-C5-C6
29	1c	508	CLA	C2-C3-C5-C6
29	1g	613	CLA	C2-C3-C5-C6
30	00	306	CHL	C2-C3-C5-C6
30	1G	601	CHL	C2-C3-C5-C6
29	1G	602	CLA	O1D-CGD-O2D-CED
41	1b	621	SQD	C26-C27-C28-C29
29	1R	314	CLA	CBA-CGA-O2A-C1
30	1g	607	CHL	CBA-CGA-O2A-C1
30	1N	307	CHL	O1D-CGD-O2D-CED
38	1A	406	PHO	C2A-CAA-CBA-CGA
30	1n	607	CHL	C8-C10-C11-C12
29	00	302	CLA	O1A-CGA-O2A-C1
29	1G	602	CLA	O1A-CGA-O2A-C1
29	01	307	CLA	C2B-C3B-CAB-CBB
29	01	309	CLA	C2B-C3B-CAB-CBB
29	02	614	CLA	C2B-C3B-CAB-CBB
29	04	306	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	05	303	CLA	C2B-C3B-CAB-CBB
29	09	309	CLA	C2B-C3B-CAB-CBB
29	09	317	CLA	C2B-C3B-CAB-CBB
29	1B	602	CLA	C2B-C3B-CAB-CBB
29	1D	404	CLA	C2B-C3B-CAB-CBB
29	1G	602	CLA	C2B-C3B-CAB-CBB
29	1G	604	CLA	C2B-C3B-CAB-CBB
29	1N	314	CLA	C2B-C3B-CAB-CBB
29	1S	306	CLA	C2B-C3B-CAB-CBB
29	1S	313	CLA	C2B-C3B-CAB-CBB
29	1b	612	CLA	C2B-C3B-CAB-CBB
29	1b	617	CLA	C2B-C3B-CAB-CBB
29	1c	509	CLA	C2B-C3B-CAB-CBB
29	1c	514	CLA	C2B-C3B-CAB-CBB
29	1g	602	CLA	C2B-C3B-CAB-CBB
29	1g	603	CLA	C2B-C3B-CAB-CBB
29	1n	613	CLA	C2B-C3B-CAB-CBB
29	1r	302	CLA	C2B-C3B-CAB-CBB
29	1r	309	CLA	C2B-C3B-CAB-CBB
29	1s	305	CLA	C2B-C3B-CAB-CBB
30	00	306	CHL	C2B-C3B-CAB-CBB
30	00	308	CHL	C2B-C3B-CAB-CBB
30	02	605	CHL	C2B-C3B-CAB-CBB
30	03	311	CHL	C2B-C3B-CAB-CBB
30	05	304	CHL	C2B-C3B-CAB-CBB
30	09	306	CHL	C2B-C3B-CAB-CBB
30	1G	607	CHL	C2B-C3B-CAB-CBB
30	1n	607	CHL	C2B-C3B-CAB-CBB
30	1s	304	CHL	C2B-C3B-CAB-CBB
30	1G	607	CHL	C10-C11-C12-C13
29	09	301	CLA	CBA-CGA-O2A-C1
47	1X	101	3PH	C25-C26-C27-C28
29	1C	502	CLA	C10-C11-C12-C13
34	1B	626	DGD	O6E-C5E-C6E-O5E
29	1b	613	CLA	C2-C1-O2A-CGA
33	1a	413	LHG	C28-C29-C30-C31
34	1B	625	DGD	C4A-C5A-C6A-C7A
30	1N	308	CHL	C5-C6-C7-C8
29	1G	612	CLA	O1A-CGA-O2A-C1
30	1N	308	CHL	C16-C17-C18-C20
31	1s	318	LUT	C1-C6-C7-C8
31	1s	318	LUT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
35	04	313	BCR	C1-C6-C7-C8
35	04	313	BCR	C5-C6-C7-C8
35	04	313	BCR	C23-C24-C25-C26
35	1B	617	BCR	C23-C24-C25-C26
35	1B	618	BCR	C1-C6-C7-C8
35	1B	618	BCR	C23-C24-C25-C26
35	1B	618	BCR	C23-C24-C25-C30
35	1B	619	BCR	C23-C24-C25-C26
35	1B	630	BCR	C23-C24-C25-C26
35	1D	406	BCR	C1-C6-C7-C8
35	1D	406	BCR	C5-C6-C7-C8
35	1H	101	BCR	C23-C24-C25-C30
35	1I	102	BCR	C1-C6-C7-C8
35	1Z	101	BCR	C23-C24-C25-C26
35	1b	601	BCR	C1-C6-C7-C8
35	1b	601	BCR	C5-C6-C7-C8
35	1b	618	BCR	C23-C24-C25-C26
35	1b	619	BCR	C1-C6-C7-C8
35	1b	619	BCR	C5-C6-C7-C8
35	1b	619	BCR	C23-C24-C25-C26
35	1b	619	BCR	C23-C24-C25-C30
35	1c	516	BCR	C23-C24-C25-C26
35	1d	409	BCR	C1-C6-C7-C8
35	1k	102	BCR	C23-C24-C25-C26
35	1k	102	BCR	C23-C24-C25-C30
30	08	301	CHL	C2C-C3C-CAC-CBC
33	1j	102	LHG	C27-C28-C29-C30
34	1C	516	DGD	C4B-C5B-C6B-C7B
29	1n	602	CLA	O1D-CGD-O2D-CED
29	1n	610	CLA	CBA-CGA-O2A-C1
29	1d	406	CLA	C5-C6-C7-C8
45	1E	103	HEM	C2A-CAA-CBA-CGA
34	1B	626	DGD	C2B-C1B-O2G-C2G
33	09	318	LHG	C24-C25-C26-C27
30	1N	310	CHL	C15-C16-C17-C18
29	00	318	CLA	C4-C3-C5-C6
29	1S	313	CLA	C4-C3-C5-C6
29	1c	508	CLA	C4-C3-C5-C6
29	1s	315	CLA	C4-C3-C5-C6
30	1g	601	CHL	O1D-CGD-O2D-CED
30	1g	609	CHL	O1D-CGD-O2D-CED
29	00	318	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
29	1C	502	CLA	C11-C12-C13-C15
29	1D	404	CLA	C6-C7-C8-C10
29	1s	315	CLA	C2-C3-C5-C6
30	1G	601	CHL	C11-C10-C8-C7
30	1N	302	CHL	C11-C12-C13-C15
32	09	315	VIV	C16-C17-C18-C20
40	1a	412	PL9	C12-C11-C9-C8
30	00	308	CHL	C3-C5-C6-C7
29	1g	602	CLA	O1A-CGA-O2A-C1
30	09	308	CHL	O1A-CGA-O2A-C1
33	1C	522	LHG	C11-C10-C9-C8
42	1B	623	MGE	C7B-C8B-C9B-CAB
29	1B	605	CLA	CBD-CGD-O2D-CED
43	1C	514	LNL	C6-C7-C8-C9
33	1C	519	LHG	C23-C24-C25-C26
29	1B	601	CLA	CBA-CGA-O2A-C1
29	1a	408	CLA	CBA-CGA-O2A-C1
29	1c	514	CLA	CBA-CGA-O2A-C1
33	1C	526	LHG	C26-C27-C28-C29
41	1b	622	SQD	C9-C10-C11-C12
29	02	612	CLA	C2A-CAA-CBA-CGA
29	1N	303	CLA	C2A-CAA-CBA-CGA
29	1g	602	CLA	C2A-CAA-CBA-CGA
30	00	306	CHL	C2A-CAA-CBA-CGA
30	1G	601	CHL	C8-C10-C11-C12
29	01	307	CLA	O1D-CGD-O2D-CED
29	09	309	CLA	O1D-CGD-O2D-CED
29	1B	609	CLA	O1D-CGD-O2D-CED
33	1e	102	LHG	C29-C30-C31-C32
33	1n	617	LHG	C17-C18-C19-C20
34	1c	519	DGD	C1A-C2A-C3A-C4A
29	1C	511	CLA	O1D-CGD-O2D-CED
33	00	317	LHG	C13-C14-C15-C16
33	1P	201	LHG	C33-C34-C35-C36
33	1e	102	LHG	C11-C10-C9-C8
33	1P	201	LHG	C14-C15-C16-C17
33	1d	401	LHG	C26-C27-C28-C29
29	09	301	CLA	O1A-CGA-O2A-C1
29	1B	602	CLA	CBD-CGD-O2D-CED
29	1B	616	CLA	CBD-CGD-O2D-CED
29	1C	504	CLA	C5-C6-C7-C8
29	1C	512	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
30	06	601	CHL	O1D-CGD-O2D-CED
30	1s	308	CHL	O1D-CGD-O2D-CED
33	1C	523	LHG	C24-C25-C26-C27
41	1b	622	SQD	C7-C8-C9-C10
34	1A	414	DGD	C2B-C1B-O2G-C2G
34	1B	627	DGD	C2B-C1B-O2G-C2G
41	1D	411	SQD	C26-C27-C28-C29
34	1S	320	DGD	C2D-C1D-O3G-C3G
41	1B	628	SQD	C2-C1-O6-C44
41	1D	411	SQD	C2-C1-O6-C44
41	1b	621	SQD	C2-C1-O6-C44
41	1m	101	SQD	C2-C1-O6-C44
42	1k	101	MGE	C2D-C1D-O3G-C3G
30	05	305	CHL	C8-C10-C11-C12
34	1B	627	DGD	O1G-C1G-C2G-O2G
34	1c	518	DGD	O6E-C5E-C6E-O5E
29	1n	610	CLA	O1A-CGA-O2A-C1
29	1B	606	CLA	C16-C17-C18-C20
34	1b	627	DGD	C3B-C4B-C5B-C6B
42	1k	101	MGE	O6D-C5D-C6D-O5D
29	00	302	CLA	C5-C6-C7-C8
29	03	301	CLA	C4-C3-C5-C6
41	1L	102	SQD	C7-C8-C9-C10
33	1t	101	LHG	C5-C4-O6-P
29	1S	313	CLA	C2-C3-C5-C6
40	1E	102	PL9	C4-C3-C7-C8
40	1e	101	PL9	C4-C3-C7-C8
33	1a	413	LHG	C31-C32-C33-C34
29	1B	606	CLA	C11-C12-C13-C14
30	1G	601	CHL	C11-C10-C8-C9
32	09	315	VIV	C16-C17-C18-C19
47	1X	101	3PH	C28-C29-C2A-C2B
29	1g	603	CLA	O1D-CGD-O2D-CED
29	03	301	CLA	C2A-CAA-CBA-CGA
29	09	301	CLA	C2A-CAA-CBA-CGA
29	1B	612	CLA	C2A-CAA-CBA-CGA
29	1C	501	CLA	C2A-CAA-CBA-CGA
29	1G	611	CLA	C2A-CAA-CBA-CGA
29	1s	316	CLA	C2A-CAA-CBA-CGA
42	1B	623	MGE	O6D-C5D-C6D-O5D
29	1B	601	CLA	O1A-CGA-O2A-C1
29	00	310	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	00	311	CLA	C1A-C2A-CAA-CBA
29	01	307	CLA	C1A-C2A-CAA-CBA
29	01	313	CLA	C1A-C2A-CAA-CBA
29	02	611	CLA	C1A-C2A-CAA-CBA
29	05	303	CLA	C1A-C2A-CAA-CBA
29	1C	501	CLA	C1A-C2A-CAA-CBA
29	1C	510	CLA	C1A-C2A-CAA-CBA
29	1C	511	CLA	C1A-C2A-CAA-CBA
29	1D	401	CLA	C1A-C2A-CAA-CBA
29	1D	402	CLA	C1A-C2A-CAA-CBA
29	1G	602	CLA	C1A-C2A-CAA-CBA
29	1N	304	CLA	C1A-C2A-CAA-CBA
29	1R	308	CLA	C1A-C2A-CAA-CBA
29	1a	406	CLA	C1A-C2A-CAA-CBA
29	1c	503	CLA	C1A-C2A-CAA-CBA
29	1c	507	CLA	C1A-C2A-CAA-CBA
29	1c	508	CLA	C1A-C2A-CAA-CBA
29	1c	513	CLA	C1A-C2A-CAA-CBA
29	1s	316	CLA	C1A-C2A-CAA-CBA
30	00	304	CHL	C1A-C2A-CAA-CBA
30	00	308	CHL	C1A-C2A-CAA-CBA
30	01	302	CHL	C1A-C2A-CAA-CBA
30	01	306	CHL	C1A-C2A-CAA-CBA
30	02	601	CHL	C1A-C2A-CAA-CBA
30	02	605	CHL	C1A-C2A-CAA-CBA
30	03	305	CHL	C1A-C2A-CAA-CBA
30	04	301	CHL	C1A-C2A-CAA-CBA
30	06	601	CHL	C1A-C2A-CAA-CBA
30	06	606	CHL	C1A-C2A-CAA-CBA
30	09	308	CHL	C1A-C2A-CAA-CBA
30	1N	308	CHL	C1A-C2A-CAA-CBA
30	1N	309	CHL	C1A-C2A-CAA-CBA
30	1g	609	CHL	C1A-C2A-CAA-CBA
30	1s	308	CHL	C1A-C2A-CAA-CBA
30	1n	607	CHL	C16-C17-C18-C20
34	1c	519	DGD	C2B-C3B-C4B-C5B
29	1R	312	CLA	O1A-CGA-O2A-C1
29	1c	506	CLA	C5-C6-C7-C8
30	05	305	CHL	C10-C11-C12-C13
34	1C	518	DGD	C6B-C7B-C8B-C9B
33	1S	301	LHG	C2-C3-O3-P
33	1S	319	LHG	C2-C3-O3-P

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Mol	Chain	Res	Type	Atoms
33	1w	103	LHG	C2-C3-O3-P
29	1b	612	CLA	C13-C15-C16-C17
29	1c	514	CLA	C5-C6-C7-C8
30	1n	607	CHL	C5-C6-C7-C8
38	1A	406	PHO	C13-C15-C16-C17
29	1b	607	CLA	CBA-CGA-O2A-C1
33	09	318	LHG	O6-C4-C5-C6
33	1t	101	LHG	O6-C4-C5-C6
33	1C	526	LHG	C11-C10-C9-C8
29	1C	513	CLA	CBD-CGD-O2D-CED
33	07	314	LHG	C9-C10-C11-C12
29	1B	608	CLA	CBA-CGA-O2A-C1
34	1B	626	DGD	O1B-C1B-O2G-C2G
29	01	307	CLA	C4-C3-C5-C6
29	1B	603	CLA	C2-C3-C5-C6
34	00	320	DGD	C7B-C8B-C9B-CAB
30	00	306	CHL	C10-C11-C12-C13
30	00	308	CHL	C13-C15-C16-C17
33	1a	413	LHG	C23-C24-C25-C26
29	1B	610	CLA	C15-C16-C17-C18
34	1B	625	DGD	O6E-C5E-C6E-O5E
29	1d	407	CLA	O1D-CGD-O2D-CED
33	1V	201	LHG	C4-C5-C6-O8
33	1j	102	LHG	C4-C5-C6-O8
33	1w	103	LHG	C4-C5-C6-O8
34	00	320	DGD	O1G-C1G-C2G-C3G
34	1c	520	DGD	O1G-C1G-C2G-C3G
41	1a	410	SQD	C14-C15-C16-C17
42	1B	623	MGE	O1G-C1G-C2G-C3G
33	1b	625	LHG	C28-C29-C30-C31
29	1a	408	CLA	O1A-CGA-O2A-C1
29	1b	607	CLA	O1A-CGA-O2A-C1
34	1B	627	DGD	C5D-C6D-O5D-C1E
34	1S	320	DGD	C5D-C6D-O5D-C1E
41	1D	412	SQD	C45-C44-O6-C1
29	1b	603	CLA	O1D-CGD-O2D-CED
29	08	312	CLA	CBD-CGD-O2D-CED
30	1N	308	CHL	CBD-CGD-O2D-CED
34	1A	414	DGD	O1G-C1A-C2A-C3A
29	1c	510	CLA	C11-C12-C13-C14
34	00	320	DGD	C6A-C7A-C8A-C9A
40	1R	301	PL9	C39-C41-C42-C43

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Mol	Chain	Res	Type	Atoms
34	1B	625	DGD	C3A-C4A-C5A-C6A
41	1A	413	SQD	C9-C10-C11-C12
33	1w	104	LHG	C11-C12-C13-C14
34	1A	414	DGD	CBB-CCB-CDB-CEB
29	1B	608	CLA	O1A-CGA-O2A-C1
34	1A	414	DGD	C1A-C2A-C3A-C4A
41	1B	620	SQD	C7-C8-C9-C10
41	1B	628	SQD	C23-C24-C25-C26
33	01	316	LHG	C9-C10-C11-C12
29	1b	615	CLA	O1D-CGD-O2D-CED
30	1N	306	CHL	O1D-CGD-O2D-CED
34	1S	320	DGD	O6E-C5E-C6E-O5E
29	1B	613	CLA	C4-C3-C5-C6
29	1N	314	CLA	C4-C3-C5-C6
29	1n	613	CLA	C4-C3-C5-C6
40	1R	301	PL9	C35-C34-C36-C37
40	1a	412	PL9	C30-C29-C31-C32
30	1G	607	CHL	C15-C16-C17-C18
29	1n	613	CLA	C2-C3-C5-C6
40	1R	301	PL9	C33-C34-C36-C37
29	1c	505	CLA	CBA-CGA-O2A-C1
29	1s	312	CLA	CBA-CGA-O2A-C1
34	1S	320	DGD	C2A-C1A-O1G-C1G
29	1B	610	CLA	C2A-CAA-CBA-CGA
29	1C	509	CLA	C13-C15-C16-C17
29	1C	508	CLA	C2-C1-O2A-CGA
30	1N	302	CHL	C16-C17-C18-C20
34	1b	627	DGD	O6E-C5E-C6E-O5E
34	00	320	DGD	C9B-CAB-CBB-CCB
30	1n	607	CHL	C10-C11-C12-C13
33	1C	523	LHG	C2-C3-O3-P
33	1E	101	LHG	C2-C3-O3-P
47	1X	101	3PH	C1-O11-P-O12
29	1C	504	CLA	CBA-CGA-O2A-C1
29	1c	506	CLA	CBA-CGA-O2A-C1
34	1c	518	DGD	C2A-C1A-O1G-C1G
29	1c	514	CLA	O1A-CGA-O2A-C1
33	1S	301	LHG	O6-C4-C5-O7
33	1a	413	LHG	O6-C4-C5-O7
33	1c	522	LHG	O7-C7-C8-C9
30	1S	307	CHL	C2C-C3C-CAC-CBC
29	1R	308	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	1g	606	CHL	O1D-CGD-O2D-CED
33	1R	317	LHG	C23-C24-C25-C26
33	1b	624	LHG	C7-C8-C9-C10
29	00	309	CLA	C10-C11-C12-C13
32	09	315	VIV	C16-C15-C9-O1
41	1B	629	SQD	C2-C1-O6-C44
41	1S	302	SQD	C2-C1-O6-C44
34	1C	518	DGD	C2A-C3A-C4A-C5A
33	1K	101	LHG	O8-C23-C24-C25
34	1B	625	DGD	O2G-C1B-C2B-C3B
33	01	316	LHG	O7-C5-C6-O8
33	1C	526	LHG	O7-C5-C6-O8
34	1C	517	DGD	O1G-C1G-C2G-O2G
33	00	317	LHG	C31-C32-C33-C34
30	1n	601	CHL	C8-C10-C11-C12
38	1d	404	PHO	CHA-CBD-CGD-O1D
38	1d	404	PHO	CHA-CBD-CGD-O2D
33	1K	101	LHG	C15-C16-C17-C18
29	09	302	CLA	C4-C3-C5-C6
29	1C	509	CLA	C4-C3-C5-C6
29	1b	612	CLA	C4-C3-C5-C6
30	01	304	CHL	C4-C3-C5-C6
30	1n	607	CHL	C4-C3-C5-C6
29	00	318	CLA	C6-C7-C8-C10
29	1B	608	CLA	C6-C7-C8-C10
29	1C	501	CLA	C11-C12-C13-C15
29	1C	509	CLA	C11-C12-C13-C15
29	1D	404	CLA	C11-C12-C13-C15
29	1D	404	CLA	C12-C13-C15-C16
29	1G	602	CLA	C11-C12-C13-C15
29	1N	314	CLA	C2-C3-C5-C6
29	1b	613	CLA	C6-C7-C8-C10
29	1b	615	CLA	C11-C12-C13-C15
29	1c	512	CLA	C11-C10-C8-C7
30	00	306	CHL	C12-C13-C15-C16
30	00	307	CHL	C11-C12-C13-C15
30	00	308	CHL	C12-C13-C15-C16
30	01	304	CHL	C2-C3-C5-C6
30	01	304	CHL	C6-C7-C8-C10
30	09	308	CHL	C6-C7-C8-C10
30	1G	601	CHL	C6-C7-C8-C10
30	1G	601	CHL	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
30	1G	607	CHL	C11-C12-C13-C15
30	1N	308	CHL	C6-C7-C8-C10
30	1N	310	CHL	C11-C12-C13-C15
30	1N	310	CHL	C12-C13-C15-C16
30	1n	607	CHL	C2-C3-C5-C6
40	1a	412	PL9	C28-C29-C31-C32
33	1G	618	LHG	O8-C23-C24-C25
29	1c	515	CLA	C10-C11-C12-C13
34	1C	518	DGD	C4B-C5B-C6B-C7B
29	1B	608	CLA	C6-C7-C8-C9
29	1G	602	CLA	C11-C12-C13-C14
29	1b	616	CLA	C11-C10-C8-C9
29	1c	512	CLA	C11-C10-C8-C9
30	01	304	CHL	C6-C7-C8-C9
30	1G	601	CHL	C14-C13-C15-C16
30	1N	310	CHL	C14-C13-C15-C16
32	09	315	VIV	C19-C18-C20-C21
32	09	315	VIV	C21-C22-C23-C1
41	1a	411	SQD	C23-C24-C25-C26
33	1W	102	LHG	C9-C10-C11-C12
33	1a	413	LHG	C12-C13-C14-C15
34	1b	627	DGD	C5A-C6A-C7A-C8A
29	01	310	CLA	CBA-CGA-O2A-C1
29	1n	613	CLA	CBA-CGA-O2A-C1
30	1r	313	CHL	CBA-CGA-O2A-C1
29	1b	608	CLA	C11-C12-C13-C14
30	1n	601	CHL	O1D-CGD-O2D-CED
31	1G	615	LUT	C7-C8-C9-C19
33	1K	101	LHG	C23-C24-C25-C26
33	1w	103	LHG	C14-C15-C16-C17
34	1c	519	DGD	CAA-CBA-CCA-CDA
29	1B	605	CLA	C13-C15-C16-C17
29	1B	609	CLA	C5-C6-C7-C8
30	1g	601	CHL	C5-C6-C7-C8
33	1C	527	LHG	C15-C16-C17-C18
34	1S	320	DGD	C2B-C3B-C4B-C5B
29	1B	602	CLA	CBA-CGA-O2A-C1
29	1B	609	CLA	CBA-CGA-O2A-C1
29	1b	612	CLA	CBA-CGA-O2A-C1
30	1N	302	CHL	CBA-CGA-O2A-C1
33	1b	623	LHG	C23-C24-C25-C26
30	09	308	CHL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
41	1b	622	SQD	O47-C7-C8-C9
30	08	301	CHL	C4C-C3C-CAC-CBC
29	01	307	CLA	C4B-C3B-CAB-CBB
29	04	308	CLA	C4B-C3B-CAB-CBB
29	1B	609	CLA	C4B-C3B-CAB-CBB
29	1B	610	CLA	C4B-C3B-CAB-CBB
29	1S	313	CLA	C4B-C3B-CAB-CBB
29	1c	514	CLA	C4B-C3B-CAB-CBB
29	1s	305	CLA	C4B-C3B-CAB-CBB
29	1s	316	CLA	C4B-C3B-CAB-CBB
30	00	308	CHL	C4B-C3B-CAB-CBB
30	05	304	CHL	C4B-C3B-CAB-CBB
30	1n	607	CHL	C4B-C3B-CAB-CBB
33	03	314	LHG	O6-C4-C5-C6
33	1a	413	LHG	O6-C4-C5-C6
40	1E	102	PL9	C29-C31-C32-C33
40	1E	102	PL9	C34-C36-C37-C38
33	1W	102	LHG	C11-C12-C13-C14
34	1c	518	DGD	C2A-C3A-C4A-C5A
33	1E	101	LHG	C7-C8-C9-C10
41	1C	521	SQD	C7-C8-C9-C10
29	1b	616	CLA	O1D-CGD-O2D-CED
29	1b	616	CLA	C4-C3-C5-C6
29	09	302	CLA	C2-C3-C5-C6
29	1B	613	CLA	C2-C3-C5-C6
29	1C	509	CLA	C2-C3-C5-C6
29	1b	612	CLA	C2-C3-C5-C6
34	1A	414	DGD	O1B-C1B-O2G-C2G
34	1S	320	DGD	O1A-C1A-O1G-C1G
29	1r	314	CLA	O1A-CGA-O2A-C1
30	1n	609	CHL	C11-C12-C13-C14
29	1b	602	CLA	CBA-CGA-O2A-C1
29	1c	510	CLA	CBA-CGA-O2A-C1
33	1J	102	LHG	O8-C23-C24-C25
33	1g	618	LHG	O8-C23-C24-C25
33	01	316	LHG	C7-C8-C9-C10
34	1C	517	DGD	C1A-C2A-C3A-C4A
33	00	321	LHG	C2-C3-O3-P
33	03	314	LHG	C5-C4-O6-P
33	1C	527	LHG	C2-C3-O3-P
33	1C	527	LHG	C5-C4-O6-P
33	1N	318	LHG	C2-C3-O3-P

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Mol	Chain	Res	Type	Atoms
33	1a	401	LHG	C2-C3-O3-P
33	1s	302	LHG	C5-C4-O6-P
29	1c	505	CLA	O1A-CGA-O2A-C1
29	01	308	CLA	C3A-C2A-CAA-CBA
29	01	309	CLA	C3A-C2A-CAA-CBA
29	1B	608	CLA	C3A-C2A-CAA-CBA
33	1N	318	LHG	C28-C29-C30-C31
41	1B	628	SQD	C16-C17-C18-C19
41	1C	521	SQD	C11-C10-C9-C8
34	1B	627	DGD	C4D-C5D-C6D-O5D
32	09	315	VIV	C15-C16-C17-C18
34	1B	627	DGD	C2A-C1A-O1G-C1G
29	1B	602	CLA	C10-C11-C12-C13
30	1G	607	CHL	C5-C6-C7-C8
33	1a	413	LHG	C4-C5-C6-O8
34	1B	626	DGD	O1G-C1G-C2G-C3G
34	1B	627	DGD	O1G-C1G-C2G-C3G
34	1S	320	DGD	C1G-C2G-C3G-O3G
42	1k	101	MGE	O1G-C1G-C2G-C3G
47	1X	101	3PH	C1-C2-C3-O31
29	03	301	CLA	C2-C3-C5-C6
29	1b	616	CLA	C2-C3-C5-C6
29	1N	303	CLA	O1D-CGD-O2D-CED
30	1N	310	CHL	O1D-CGD-O2D-CED
29	01	312	CLA	C2C-C3C-CAC-CBC
34	1C	517	DGD	CAB-CBB-CCB-CDB
29	1b	608	CLA	O1D-CGD-O2D-CED
34	1C	518	DGD	O6D-C5D-C6D-O5D
30	00	305	CHL	C3C-C2C-CMC-OMC
30	02	601	CHL	C3C-C2C-CMC-OMC
30	03	304	CHL	C3C-C2C-CMC-OMC
30	05	304	CHL	C3C-C2C-CMC-OMC
30	05	305	CHL	C3C-C2C-CMC-OMC
30	06	604	CHL	C3C-C2C-CMC-OMC
30	1G	607	CHL	C3C-C2C-CMC-OMC
30	1S	307	CHL	C3C-C2C-CMC-OMC
30	1g	607	CHL	C3C-C2C-CMC-OMC
30	1n	609	CHL	C3C-C2C-CMC-OMC
30	1r	305	CHL	C3C-C2C-CMC-OMC
30	1s	308	CHL	C3C-C2C-CMC-OMC
30	1s	309	CHL	C3C-C2C-CMC-OMC
33	1C	520	LHG	C4-O6-P-O3

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Mol	Chain	Res	Type	Atoms
33	1s	302	LHG	C4-O6-P-O3
43	1C	514	LNL	C10-C11-C12-C13
29	1c	506	CLA	O1A-CGA-O2A-C1
29	1n	613	CLA	O1A-CGA-O2A-C1
34	1c	518	DGD	O1A-C1A-O1G-C1G
30	1n	606	CHL	O1A-CGA-O2A-C1
29	1d	403	CLA	C3-C5-C6-C7
29	1b	604	CLA	CBA-CGA-O2A-C1
29	1r	314	CLA	O1D-CGD-O2D-CED
29	01	310	CLA	O1A-CGA-O2A-C1
29	1C	504	CLA	O1A-CGA-O2A-C1
29	1s	312	CLA	O1A-CGA-O2A-C1
30	1n	609	CHL	C11-C12-C13-C15
29	04	308	CLA	C2B-C3B-CAB-CBB
29	1B	610	CLA	C2B-C3B-CAB-CBB
29	1B	614	CLA	C2B-C3B-CAB-CBB
29	1R	302	CLA	C2B-C3B-CAB-CBB
29	1s	316	CLA	C2B-C3B-CAB-CBB
30	03	304	CHL	C2B-C3B-CAB-CBB
30	09	308	CHL	C2B-C3B-CAB-CBB
30	1S	307	CHL	C2B-C3B-CAB-CBB
30	1n	606	CHL	C2B-C3B-CAB-CBB
29	1B	609	CLA	O1A-CGA-O2A-C1
29	1b	612	CLA	O1A-CGA-O2A-C1
29	1b	611	CLA	C2C-C3C-CAC-CBC
33	1R	318	LHG	C15-C16-C17-C18
33	1g	618	LHG	C11-C12-C13-C14
33	1C	522	LHG	O7-C5-C6-O8
33	1S	301	LHG	O7-C5-C6-O8
33	1s	319	LHG	O7-C5-C6-O8
41	1S	302	SQD	O47-C45-C46-O48
41	1a	411	SQD	O47-C45-C46-O48
42	1B	623	MGE	O1G-C1G-C2G-O2G
42	1k	101	MGE	O1G-C1G-C2G-O2G
42	1s	320	MGE	O2G-C2G-C3G-O3G
29	1B	611	CLA	C5-C6-C7-C8
34	1b	627	DGD	O2G-C1B-C2B-C3B
29	1C	508	CLA	C13-C15-C16-C17
29	1b	616	CLA	C5-C6-C7-C8
40	1r	301	PL9	C44-C46-C47-C48
34	1B	627	DGD	O1B-C1B-O2G-C2G
29	09	301	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
29	1G	612	CLA	C2-C1-O2A-CGA
29	1d	407	CLA	C2-C1-O2A-CGA
29	1n	610	CLA	C2-C1-O2A-CGA
30	1N	310	CHL	C2-C1-O2A-CGA
29	1C	508	CLA	C11-C12-C13-C14
30	1G	607	CHL	C14-C13-C15-C16
30	1N	308	CHL	C6-C7-C8-C9
30	1n	607	CHL	C6-C7-C8-C9
30	1n	609	CHL	C6-C7-C8-C9
34	1B	625	DGD	CCA-CDA-CEA-CFA
34	1C	517	DGD	C7B-C8B-C9B-CAB
41	1b	622	SQD	C27-C28-C29-C30
33	1N	318	LHG	C5-C4-O6-P
33	1V	201	LHG	C2-C3-O3-P
33	1V	201	LHG	C5-C4-O6-P
33	1d	401	LHG	C2-C3-O3-P
33	1j	102	LHG	C2-C3-O3-P
33	1v	201	LHG	C5-C4-O6-P
29	1B	602	CLA	O1A-CGA-O2A-C1
33	1v	201	LHG	C11-C12-C13-C14
29	1R	302	CLA	C2A-CAA-CBA-CGA
29	1n	613	CLA	C2A-CAA-CBA-CGA
30	02	605	CHL	C2A-CAA-CBA-CGA
29	00	302	CLA	C3-C5-C6-C7
35	1A	409	BCR	C1-C6-C7-C8
35	1B	617	BCR	C23-C24-C25-C30
35	1B	619	BCR	C23-C24-C25-C30
35	1B	630	BCR	C23-C24-C25-C30
35	1J	101	BCR	C1-C6-C7-C8
35	1Z	101	BCR	C23-C24-C25-C30
35	1Z	102	BCR	C23-C24-C25-C26
35	1b	618	BCR	C23-C24-C25-C30
35	1d	409	BCR	C5-C6-C7-C8
29	1C	510	CLA	C10-C11-C12-C13
29	1c	512	CLA	C13-C15-C16-C17
29	1B	601	CLA	CAA-CBA-CGA-O2A
31	1g	616	LUT	C7-C8-C9-C19
29	03	307	CLA	C1A-C2A-CAA-CBA
29	1D	405	CLA	C1A-C2A-CAA-CBA
46	1G	619	XAT	C31-C32-C33-C34
46	1g	617	XAT	C31-C32-C33-C34
29	1b	612	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
30	09	308	CHL	C2C-C3C-CAC-CBC
33	1j	102	LHG	C23-C24-C25-C26
34	1c	520	DGD	O6D-C5D-C6D-O5D
34	1S	320	DGD	C2B-C1B-O2G-C2G
33	1N	318	LHG	C12-C13-C14-C15
34	1b	627	DGD	CCA-CDA-CEA-CFA
32	00	315	VIV	C9-C15-C16-C17
41	1a	410	SQD	C11-C10-C9-C8
30	00	308	CHL	C16-C17-C18-C19
30	1G	601	CHL	C16-C17-C18-C20
29	05	301	CLA	O1D-CGD-O2D-CED
33	1F	101	LHG	O6-C4-C5-C6
33	1w	102	LHG	O6-C4-C5-C6
40	1r	301	PL9	C25-C24-C26-C27
29	1B	602	CLA	C6-C7-C8-C10
29	1C	508	CLA	C11-C12-C13-C15
29	1b	616	CLA	C11-C10-C8-C7
29	1c	503	CLA	C11-C12-C13-C15
29	1g	602	CLA	C11-C10-C8-C7
30	01	304	CHL	C11-C12-C13-C15
30	05	305	CHL	C6-C7-C8-C10
30	05	305	CHL	C12-C13-C15-C16
30	1n	607	CHL	C6-C7-C8-C10
30	1n	607	CHL	C12-C13-C15-C16
30	1n	609	CHL	C6-C7-C8-C10
30	1n	608	CHL	C2A-CAA-CBA-CGA
30	1s	304	CHL	C2A-CAA-CBA-CGA
33	1N	318	LHG	C24-C25-C26-C27
33	1n	617	LHG	C14-C15-C16-C17
29	1C	508	CLA	C5-C6-C7-C8
31	1s	318	LUT	C11-C10-C9-C19
33	1L	101	LHG	C25-C26-C27-C28
35	1j	101	BCR	C11-C10-C9-C34
33	1C	527	LHG	C7-C8-C9-C10
33	1W	102	LHG	C15-C16-C17-C18
29	1b	606	CLA	C5-C6-C7-C8
29	1B	608	CLA	C2C-C3C-CAC-CBC
33	1L	101	LHG	C23-C24-C25-C26
34	1B	626	DGD	C4B-C5B-C6B-C7B
29	1B	603	CLA	C10-C11-C12-C13
30	1N	302	CHL	O1A-CGA-O2A-C1
29	00	311	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
29	00	312	CLA	CAD-CBD-CGD-O2D
29	09	302	CLA	CAD-CBD-CGD-O2D
29	1B	615	CLA	CAD-CBD-CGD-O2D
29	1C	506	CLA	CAD-CBD-CGD-O2D
29	1C	509	CLA	CAD-CBD-CGD-O2D
29	1N	315	CLA	CAD-CBD-CGD-O2D
29	1S	314	CLA	CAD-CBD-CGD-O2D
29	1a	408	CLA	CAD-CBD-CGD-O2D
29	1b	604	CLA	CAD-CBD-CGD-O2D
29	1c	505	CLA	CAD-CBD-CGD-O2D
29	1c	507	CLA	CAD-CBD-CGD-O2D
29	1n	603	CLA	CAD-CBD-CGD-O2D
29	1n	604	CLA	CAD-CBD-CGD-O2D
29	1n	611	CLA	CAD-CBD-CGD-O2D
29	1s	311	CLA	CAD-CBD-CGD-O2D
30	00	307	CHL	CAD-CBD-CGD-O2D
30	01	304	CHL	CAD-CBD-CGD-O2D
30	05	305	CHL	CAD-CBD-CGD-O2D
30	05	315	CHL	CAD-CBD-CGD-O2D
30	09	306	CHL	CAD-CBD-CGD-O2D
30	1G	606	CHL	CAD-CBD-CGD-O2D
30	1n	607	CHL	CAD-CBD-CGD-O2D
30	1r	305	CHL	CAD-CBD-CGD-O2D
30	1r	313	CHL	CAD-CBD-CGD-O2D
38	1A	405	PHO	CAD-CBD-CGD-O2D
38	1a	407	PHO	CAD-CBD-CGD-O2D
29	1B	603	CLA	C15-C16-C17-C18
30	00	307	CHL	C13-C15-C16-C17
33	09	318	LHG	C13-C14-C15-C16
29	09	317	CLA	CBA-CGA-O2A-C1
29	1g	610	CLA	C4-C3-C5-C6
40	1D	407	PL9	C15-C14-C16-C17
40	1D	407	PL9	C13-C14-C16-C17
33	1W	101	LHG	C7-C8-C9-C10
33	1C	526	LHG	C4-C5-C6-O8
33	1S	301	LHG	C4-C5-C6-O8
33	1W	101	LHG	C5-C4-O6-P
29	1g	613	CLA	O1A-CGA-O2A-C1
33	03	314	LHG	O6-C4-C5-O7
33	1n	617	LHG	O6-C4-C5-O7
33	1t	101	LHG	O6-C4-C5-O7
30	00	305	CHL	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
29	1B	616	CLA	C10-C11-C12-C13
29	02	613	CLA	C2A-CAA-CBA-CGA
29	1A	404	CLA	C2A-CAA-CBA-CGA
29	1c	507	CLA	C2A-CAA-CBA-CGA
30	02	601	CHL	C2A-CAA-CBA-CGA
41	1C	521	SQD	C9-C10-C11-C12
29	1b	611	CLA	C4C-C3C-CAC-CBC
29	1c	513	CLA	O1D-CGD-O2D-CED
29	1g	604	CLA	O1D-CGD-O2D-CED
29	01	308	CLA	CHA-CBD-CGD-O1D
29	01	308	CLA	CHA-CBD-CGD-O2D
29	01	309	CLA	CHA-CBD-CGD-O1D
29	07	309	CLA	CHA-CBD-CGD-O1D
29	07	309	CLA	CHA-CBD-CGD-O2D
29	08	312	CLA	CHA-CBD-CGD-O1D
29	08	312	CLA	CHA-CBD-CGD-O2D
29	09	301	CLA	CHA-CBD-CGD-O1D
29	09	301	CLA	CHA-CBD-CGD-O2D
29	09	310	CLA	CHA-CBD-CGD-O1D
29	09	310	CLA	CHA-CBD-CGD-O2D
29	1B	607	CLA	CHA-CBD-CGD-O1D
29	1B	614	CLA	CHA-CBD-CGD-O1D
29	1B	614	CLA	CHA-CBD-CGD-O2D
29	1C	508	CLA	CHA-CBD-CGD-O1D
29	1C	513	CLA	CHA-CBD-CGD-O1D
29	1G	604	CLA	CHA-CBD-CGD-O1D
29	1N	303	CLA	CHA-CBD-CGD-O1D
29	1N	303	CLA	CHA-CBD-CGD-O2D
29	1S	311	CLA	CHA-CBD-CGD-O1D
29	1S	311	CLA	CHA-CBD-CGD-O2D
29	1b	610	CLA	CHA-CBD-CGD-O1D
29	1c	504	CLA	CHA-CBD-CGD-O1D
29	1c	504	CLA	CHA-CBD-CGD-O2D
29	1c	506	CLA	CHA-CBD-CGD-O1D
29	1c	506	CLA	CHA-CBD-CGD-O2D
29	1c	511	CLA	CHA-CBD-CGD-O1D
29	1c	511	CLA	CHA-CBD-CGD-O2D
29	1g	602	CLA	CHA-CBD-CGD-O1D
29	1n	612	CLA	CHA-CBD-CGD-O1D
29	1n	612	CLA	CHA-CBD-CGD-O2D
29	1r	310	CLA	CHA-CBD-CGD-O1D
29	1r	310	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
29	1s	307	CLA	CHA-CBD-CGD-O1D
29	1s	307	CLA	CHA-CBD-CGD-O2D
30	1N	306	CHL	CHA-CBD-CGD-O1D
30	1N	306	CHL	CHA-CBD-CGD-O2D
30	1g	605	CHL	CHA-CBD-CGD-O2D
30	1n	605	CHL	CHA-CBD-CGD-O1D
30	1n	605	CHL	CHA-CBD-CGD-O2D
30	1S	307	CHL	C4C-C3C-CAC-CBC
29	1n	610	CLA	C3-C5-C6-C7
30	1G	606	CHL	CBD-CGD-O2D-CED
29	1b	602	CLA	O1A-CGA-O2A-C1
29	1c	510	CLA	O1A-CGA-O2A-C1
34	1B	627	DGD	O1A-C1A-O1G-C1G
33	09	316	LHG	C26-C27-C28-C29
33	1D	409	LHG	C12-C13-C14-C15
33	1a	413	LHG	C9-C10-C11-C12
29	00	302	CLA	O1D-CGD-O2D-CED
29	1d	403	CLA	C8-C10-C11-C12
33	1a	413	LHG	C30-C31-C32-C33
33	1I	103	LHG	O7-C5-C6-O8
33	1V	201	LHG	O7-C5-C6-O8
33	1a	413	LHG	O7-C5-C6-O8
33	1n	617	LHG	O7-C5-C6-O8
33	1w	103	LHG	O7-C5-C6-O8
29	1B	608	CLA	C4C-C3C-CAC-CBC
29	1b	604	CLA	C16-C17-C18-C19
29	1B	605	CLA	O1D-CGD-O2D-CED
29	1C	513	CLA	O1D-CGD-O2D-CED
33	1N	318	LHG	C30-C31-C32-C33
33	1W	102	LHG	C12-C13-C14-C15
41	1L	102	SQD	C12-C13-C14-C15
29	1C	505	CLA	C4-C3-C5-C6
40	1E	102	PL9	C20-C19-C21-C22
33	1a	413	LHG	C15-C16-C17-C18
29	1b	604	CLA	O1A-CGA-O2A-C1
33	00	319	LHG	C7-C8-C9-C10
40	1r	301	PL9	C4-C3-C7-C8
42	1s	320	MGE	C3B-C4B-C5B-C6B
34	1S	320	DGD	O1B-C1B-O2G-C2G
30	01	306	CHL	O1A-CGA-O2A-C1
33	07	314	LHG	C11-C10-C9-C8
34	1C	516	DGD	C5B-C6B-C7B-C8B

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Mol	Chain	Res	Type	Atoms
29	1N	314	CLA	C2A-CAA-CBA-CGA
29	1n	610	CLA	C2A-CAA-CBA-CGA
29	1C	511	CLA	CAA-CBA-CGA-O2A
33	1n	617	LHG	O8-C23-C24-C25
30	00	308	CHL	C2C-C3C-CAC-CBC
29	01	309	CLA	C1A-C2A-CAA-CBA
29	03	301	CLA	C1A-C2A-CAA-CBA
29	05	309	CLA	CHA-CBD-CGD-O2D
29	1N	313	CLA	CHA-CBD-CGD-O2D
29	1a	408	CLA	C1A-C2A-CAA-CBA
29	1b	617	CLA	C1A-C2A-CAA-CBA
29	1r	309	CLA	C1A-C2A-CAA-CBA
30	01	304	CHL	C1A-C2A-CAA-CBA
30	05	305	CHL	C1A-C2A-CAA-CBA
30	08	303	CHL	CHA-CBD-CGD-O2D
30	1R	303	CHL	CHA-CBD-CGD-O2D
30	1R	305	CHL	CHA-CBD-CGD-O2D
30	1N	308	CHL	C13-C15-C16-C17
29	1C	512	CLA	C2-C1-O2A-CGA
30	01	306	CHL	CBA-CGA-O2A-C1
29	00	309	CLA	O1D-CGD-O2D-CED
33	00	319	LHG	C3-O3-P-O6
33	1D	409	LHG	C3-O3-P-O6
33	1J	102	LHG	C4-O6-P-O3
33	1R	317	LHG	C3-O3-P-O6
33	1c	521	LHG	C4-O6-P-O3
41	1L	102	SQD	C11-C10-C9-C8
33	1R	317	LHG	O2-C2-C3-O3
29	1B	607	CLA	C4-C3-C5-C6
33	00	319	LHG	C5-C4-O6-P
33	1a	413	LHG	C5-C4-O6-P
33	1g	618	LHG	C2-C3-O3-P
33	1g	618	LHG	C5-C4-O6-P
29	01	307	CLA	C2-C3-C5-C6
29	09	317	CLA	O1A-CGA-O2A-C1
29	1R	314	CLA	O1A-CGA-O2A-C1
30	1g	607	CHL	O1A-CGA-O2A-C1
29	00	309	CLA	C4B-C3B-CAB-CBB
29	05	308	CLA	C4B-C3B-CAB-CBB
29	05	310	CLA	C4B-C3B-CAB-CBB
29	07	301	CLA	C4B-C3B-CAB-CBB
29	07	308	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	09	317	CLA	C4B-C3B-CAB-CBB
29	1B	605	CLA	C4B-C3B-CAB-CBB
29	1B	614	CLA	C4B-C3B-CAB-CBB
29	1C	502	CLA	C4B-C3B-CAB-CBB
29	1C	506	CLA	C4B-C3B-CAB-CBB
29	1D	402	CLA	C4B-C3B-CAB-CBB
29	1G	610	CLA	C4B-C3B-CAB-CBB
29	1G	612	CLA	C4B-C3B-CAB-CBB
29	1N	304	CLA	C4B-C3B-CAB-CBB
29	1R	302	CLA	C4B-C3B-CAB-CBB
29	1R	307	CLA	C4B-C3B-CAB-CBB
29	1R	312	CLA	C4B-C3B-CAB-CBB
29	1b	608	CLA	C4B-C3B-CAB-CBB
29	1c	504	CLA	C4B-C3B-CAB-CBB
29	1c	508	CLA	C4B-C3B-CAB-CBB
29	1g	603	CLA	C4B-C3B-CAB-CBB
29	1g	610	CLA	C4B-C3B-CAB-CBB
29	1n	603	CLA	C4B-C3B-CAB-CBB
29	1n	610	CLA	C4B-C3B-CAB-CBB
29	1n	612	CLA	C4B-C3B-CAB-CBB
29	1s	315	CLA	C4B-C3B-CAB-CBB
30	00	304	CHL	C4B-C3B-CAB-CBB
30	00	305	CHL	C4B-C3B-CAB-CBB
30	01	302	CHL	C4B-C3B-CAB-CBB
30	01	306	CHL	C4B-C3B-CAB-CBB
30	02	601	CHL	C4B-C3B-CAB-CBB
30	02	603	CHL	C4B-C3B-CAB-CBB
30	02	604	CHL	C4B-C3B-CAB-CBB
30	02	606	CHL	C4B-C3B-CAB-CBB
30	02	607	CHL	C4B-C3B-CAB-CBB
30	03	302	CHL	C4B-C3B-CAB-CBB
30	03	304	CHL	C4B-C3B-CAB-CBB
30	03	305	CHL	C4B-C3B-CAB-CBB
30	04	304	CHL	C4B-C3B-CAB-CBB
30	04	305	CHL	C4B-C3B-CAB-CBB
30	05	306	CHL	C4B-C3B-CAB-CBB
30	05	307	CHL	C4B-C3B-CAB-CBB
30	05	313	CHL	C4B-C3B-CAB-CBB
30	05	315	CHL	C4B-C3B-CAB-CBB
30	06	601	CHL	C4B-C3B-CAB-CBB
30	06	603	CHL	C4B-C3B-CAB-CBB
30	06	605	CHL	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
30	06	606	CHL	C4B-C3B-CAB-CBB
30	07	303	CHL	C4B-C3B-CAB-CBB
30	07	304	CHL	C4B-C3B-CAB-CBB
30	07	305	CHL	C4B-C3B-CAB-CBB
30	07	306	CHL	C4B-C3B-CAB-CBB
30	08	304	CHL	C4B-C3B-CAB-CBB
30	08	305	CHL	C4B-C3B-CAB-CBB
30	09	304	CHL	C4B-C3B-CAB-CBB
30	09	308	CHL	C4B-C3B-CAB-CBB
30	1G	601	CHL	C4B-C3B-CAB-CBB
30	1G	605	CHL	C4B-C3B-CAB-CBB
30	1G	608	CHL	C4B-C3B-CAB-CBB
30	1G	609	CHL	C4B-C3B-CAB-CBB
30	1N	302	CHL	C4B-C3B-CAB-CBB
30	1N	307	CHL	C4B-C3B-CAB-CBB
30	1R	303	CHL	C4B-C3B-CAB-CBB
30	1R	305	CHL	C4B-C3B-CAB-CBB
30	1R	313	CHL	C4B-C3B-CAB-CBB
30	1S	307	CHL	C4B-C3B-CAB-CBB
30	1S	309	CHL	C4B-C3B-CAB-CBB
30	1g	601	CHL	C4B-C3B-CAB-CBB
30	1g	605	CHL	C4B-C3B-CAB-CBB
30	1g	609	CHL	C4B-C3B-CAB-CBB
30	1n	605	CHL	C4B-C3B-CAB-CBB
30	1n	606	CHL	C4B-C3B-CAB-CBB
30	1n	609	CHL	C4B-C3B-CAB-CBB
30	1r	307	CHL	C4B-C3B-CAB-CBB
30	1r	313	CHL	C4B-C3B-CAB-CBB
30	1s	308	CHL	C4B-C3B-CAB-CBB
33	1B	621	LHG	C4-O6-P-O4
33	1C	520	LHG	C4-O6-P-O4
33	1D	409	LHG	C4-O6-P-O5
33	1N	301	LHG	C3-O3-P-O5
33	1S	319	LHG	C3-O3-P-O5
33	1b	625	LHG	C4-O6-P-O4
33	1d	401	LHG	C3-O3-P-O4
33	1w	102	LHG	C4-O6-P-O4
33	1w	104	LHG	C3-O3-P-O5
34	1B	627	DGD	C1B-C2B-C3B-C4B
30	1n	605	CHL	C2C-C3C-CAC-CBC
29	1g	613	CLA	CBA-CGA-O2A-C1
33	1D	410	LHG	O6-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
41	1a	410	SQD	C13-C14-C15-C16
29	08	312	CLA	O1D-CGD-O2D-CED
29	09	317	CLA	C2A-CAA-CBA-CGA
29	1s	314	CLA	C2A-CAA-CBA-CGA
34	1C	517	DGD	C2B-C1B-O2G-C2G
30	1G	606	CHL	O1D-CGD-O2D-CED
29	00	310	CLA	C2-C3-C5-C6
29	01	309	CLA	CAD-CBD-CGD-O1D
29	07	309	CLA	CAD-CBD-CGD-O1D
29	1B	603	CLA	CAD-CBD-CGD-O1D
29	1B	607	CLA	CAD-CBD-CGD-O1D
29	1B	610	CLA	CAD-CBD-CGD-O1D
29	1C	504	CLA	CAD-CBD-CGD-O1D
29	1C	505	CLA	CAD-CBD-CGD-O1D
29	1C	513	CLA	CAD-CBD-CGD-O1D
29	1b	610	CLA	CAD-CBD-CGD-O1D
29	1b	611	CLA	CAD-CBD-CGD-O1D
29	1c	506	CLA	CAD-CBD-CGD-O1D
29	1c	508	CLA	CAD-CBD-CGD-O1D
30	1N	306	CHL	CAD-CBD-CGD-O1D
30	1g	605	CHL	CAD-CBD-CGD-O1D
30	1n	605	CHL	CAD-CBD-CGD-O1D
30	1s	308	CHL	CAD-CBD-CGD-O1D
41	1a	410	SQD	O5-C5-C6-S
29	1S	313	CLA	O1A-CGA-O2A-C1
33	1W	102	LHG	C13-C14-C15-C16
33	00	316	LHG	C23-C24-C25-C26
41	1b	621	SQD	C7-C8-C9-C10
34	1B	626	DGD	C2A-C1A-O1G-C1G
29	1b	611	CLA	O1D-CGD-O2D-CED
29	1g	610	CLA	CBD-CGD-O2D-CED
29	03	307	CLA	CAD-CBD-CGD-O2D
29	04	312	CLA	CHA-CBD-CGD-O1D
29	1B	605	CLA	C11-C12-C13-C15
29	1B	610	CLA	C11-C12-C13-C15
29	1C	505	CLA	C2-C3-C5-C6
29	1b	610	CLA	C11-C12-C13-C15
29	1c	512	CLA	C12-C13-C15-C16
29	1c	514	CLA	C11-C10-C8-C7
29	1n	603	CLA	C6-C7-C8-C10
30	01	304	CHL	C12-C13-C15-C16
30	01	306	CHL	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
30	01	306	CHL	C11-C10-C8-C7
30	02	606	CHL	C3A-C2A-CAA-CBA
30	07	311	CHL	CAD-CBD-CGD-O2D
30	1G	607	CHL	C12-C13-C15-C16
33	09	318	LHG	O6-C4-C5-O7
33	1D	410	LHG	O6-C4-C5-O7
33	1N	317	LHG	C23-C24-C25-C26
29	1b	616	CLA	O1A-CGA-O2A-C1
33	1r	317	LHG	O8-C23-C24-C25
34	1B	626	DGD	O2G-C1B-C2B-C3B
33	1c	521	LHG	C12-C13-C14-C15
30	08	304	CHL	C2C-C3C-CAC-CBC
41	1B	628	SQD	C31-C32-C33-C34
29	1b	611	CLA	C5-C6-C7-C8
29	00	309	CLA	C2A-CAA-CBA-CGA
33	1w	104	LHG	C12-C13-C14-C15
29	01	301	CLA	CAA-CBA-CGA-O2A
29	03	307	CLA	CAD-CBD-CGD-O1D
29	03	309	CLA	CAD-CBD-CGD-O1D
29	1S	306	CLA	CAD-CBD-CGD-O1D
30	00	304	CHL	C1C-C2C-CMC-OMC
30	00	306	CHL	C1C-C2C-CMC-OMC
30	01	302	CHL	C1C-C2C-CMC-OMC
30	01	303	CHL	C1C-C2C-CMC-OMC
30	01	304	CHL	C1C-C2C-CMC-OMC
30	02	601	CHL	C1C-C2C-CMC-OMC
30	02	603	CHL	C1C-C2C-CMC-OMC
30	02	604	CHL	C1C-C2C-CMC-OMC
30	02	606	CHL	C1C-C2C-CMC-OMC
30	03	302	CHL	C1C-C2C-CMC-OMC
30	03	303	CHL	C1C-C2C-CMC-OMC
30	03	304	CHL	C1C-C2C-CMC-OMC
30	03	311	CHL	C1C-C2C-CMC-OMC
30	04	301	CHL	C1C-C2C-CMC-OMC
30	04	302	CHL	C1C-C2C-CMC-OMC
30	04	305	CHL	C1C-C2C-CMC-OMC
30	05	304	CHL	C1C-C2C-CMC-OMC
30	05	304	CHL	CAD-CBD-CGD-O1D
30	05	305	CHL	C1C-C2C-CMC-OMC
30	05	307	CHL	C1C-C2C-CMC-OMC
30	05	313	CHL	C1C-C2C-CMC-OMC
30	05	315	CHL	C1C-C2C-CMC-OMC

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Mol	Chain	Res	Type	Atoms
30	06	601	CHL	C1C-C2C-CMC-OMC
30	06	603	CHL	C1C-C2C-CMC-OMC
30	06	603	CHL	CAD-CBD-CGD-O1D
30	06	604	CHL	C1C-C2C-CMC-OMC
30	06	605	CHL	C1C-C2C-CMC-OMC
30	06	606	CHL	C1C-C2C-CMC-OMC
30	07	303	CHL	C1C-C2C-CMC-OMC
30	07	304	CHL	C1C-C2C-CMC-OMC
30	07	305	CHL	C1C-C2C-CMC-OMC
30	07	306	CHL	C1C-C2C-CMC-OMC
30	08	303	CHL	C1C-C2C-CMC-OMC
30	08	305	CHL	C1C-C2C-CMC-OMC
30	09	304	CHL	C1C-C2C-CMC-OMC
30	09	304	CHL	CAD-CBD-CGD-O1D
30	09	306	CHL	C1C-C2C-CMC-OMC
30	1G	605	CHL	C1C-C2C-CMC-OMC
30	1G	605	CHL	CAD-CBD-CGD-O1D
30	1G	606	CHL	C1C-C2C-CMC-OMC
30	1G	608	CHL	C1C-C2C-CMC-OMC
30	1N	306	CHL	C1C-C2C-CMC-OMC
30	1N	308	CHL	C1C-C2C-CMC-OMC
30	1N	309	CHL	C1C-C2C-CMC-OMC
30	1R	303	CHL	C1C-C2C-CMC-OMC
30	1R	304	CHL	C1C-C2C-CMC-OMC
30	1R	305	CHL	C1C-C2C-CMC-OMC
30	1R	313	CHL	C1C-C2C-CMC-OMC
30	1S	307	CHL	C1C-C2C-CMC-OMC
30	1g	601	CHL	C1C-C2C-CMC-OMC
30	1g	607	CHL	C1C-C2C-CMC-OMC
30	1n	601	CHL	C1C-C2C-CMC-OMC
30	1n	605	CHL	C1C-C2C-CMC-OMC
30	1n	607	CHL	C1C-C2C-CMC-OMC
30	1n	609	CHL	C1C-C2C-CMC-OMC
30	1r	305	CHL	C1C-C2C-CMC-OMC
30	1r	306	CHL	C1C-C2C-CMC-OMC
30	1r	307	CHL	C1C-C2C-CMC-OMC
30	1r	313	CHL	C1C-C2C-CMC-OMC
30	1s	308	CHL	C1C-C2C-CMC-OMC
30	1s	309	CHL	C1C-C2C-CMC-OMC
33	01	316	LHG	C4-C5-C6-O8
33	1C	522	LHG	C4-C5-C6-O8
34	00	320	DGD	C1G-C2G-C3G-O3G

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Mol	Chain	Res	Type	Atoms
34	1C	517	DGD	O1G-C1G-C2G-C3G
33	00	319	LHG	O7-C5-C6-O8
33	1I	101	LHG	O7-C5-C6-O8
33	1W	102	LHG	O7-C5-C6-O8
34	00	320	DGD	O1G-C1G-C2G-O2G
34	1S	320	DGD	O2G-C2G-C3G-O3G
41	1a	410	SQD	O47-C45-C46-O48
41	1a	410	SQD	C17-C18-C19-C20
33	1N	301	LHG	O8-C23-C24-C25
29	01	307	CLA	C5-C6-C7-C8
29	01	301	CLA	C2C-C3C-CAC-CBC
47	1X	101	3PH	C2-C1-O11-P
29	1A	404	CLA	C4-C3-C5-C6
29	1S	313	CLA	CBA-CGA-O2A-C1
29	1b	616	CLA	CBA-CGA-O2A-C1
34	1S	320	DGD	O6D-C5D-C6D-O5D
33	00	321	LHG	C13-C14-C15-C16
29	1C	501	CLA	C11-C12-C13-C14
29	1C	509	CLA	C11-C12-C13-C14
29	1G	602	CLA	C6-C7-C8-C9
29	1c	503	CLA	C11-C12-C13-C14
29	1c	505	CLA	C6-C7-C8-C9
29	1g	602	CLA	C11-C10-C8-C9
30	01	304	CHL	C11-C12-C13-C14
30	05	305	CHL	C14-C13-C15-C16
29	1C	505	CLA	O1D-CGD-O2D-CED
33	1C	525	LHG	C23-C24-C25-C26
34	1B	627	DGD	C3A-C4A-C5A-C6A
34	1B	626	DGD	O1A-C1A-O1G-C1G
29	1C	506	CLA	C2A-CAA-CBA-CGA
29	1R	312	CLA	C2A-CAA-CBA-CGA
46	1G	617	XAT	C30-C31-C32-C33
46	1g	617	XAT	C30-C31-C32-C33
30	1n	609	CHL	C5-C6-C7-C8
33	1s	303	LHG	C24-C25-C26-C27
33	1a	401	LHG	C7-C8-C9-C10
33	1b	624	LHG	C23-C24-C25-C26
29	1c	508	CLA	C6-C7-C8-C9
29	1c	515	CLA	CAA-CBA-CGA-O2A
29	09	301	CLA	CBD-CGD-O2D-CED
29	05	308	CLA	C2B-C3B-CAB-CBB
29	09	302	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	1B	609	CLA	C2B-C3B-CAB-CBB
29	1C	502	CLA	C2B-C3B-CAB-CBB
29	1D	402	CLA	C2B-C3B-CAB-CBB
29	1G	612	CLA	C2B-C3B-CAB-CBB
29	1N	304	CLA	C2B-C3B-CAB-CBB
29	1R	312	CLA	C2B-C3B-CAB-CBB
29	1b	613	CLA	C2B-C3B-CAB-CBB
29	1c	508	CLA	C2B-C3B-CAB-CBB
29	1g	610	CLA	C2B-C3B-CAB-CBB
29	1g	613	CLA	C2B-C3B-CAB-CBB
29	1n	603	CLA	C2B-C3B-CAB-CBB
29	1n	610	CLA	C2B-C3B-CAB-CBB
30	01	306	CHL	C2B-C3B-CAB-CBB
30	02	601	CHL	C2B-C3B-CAB-CBB
30	03	302	CHL	C2B-C3B-CAB-CBB
30	03	303	CHL	C2B-C3B-CAB-CBB
30	05	315	CHL	C2B-C3B-CAB-CBB
30	1N	307	CHL	C2B-C3B-CAB-CBB
30	1R	303	CHL	C2B-C3B-CAB-CBB
30	1R	313	CHL	C2B-C3B-CAB-CBB
30	1n	609	CHL	C2B-C3B-CAB-CBB
30	1s	308	CHL	C2B-C3B-CAB-CBB
30	1s	309	CHL	C2B-C3B-CAB-CBB
29	1b	603	CLA	C3-C5-C6-C7
30	1n	609	CHL	C3-C5-C6-C7
29	1G	602	CLA	C4-C3-C5-C6
29	1d	406	CLA	C4-C3-C5-C6
29	1B	608	CLA	CAA-CBA-CGA-O2A
29	1R	308	CLA	CAA-CBA-CGA-O2A
33	1v	201	LHG	O7-C7-C8-C9
29	1B	608	CLA	C15-C16-C17-C18
29	1C	506	CLA	C1-C2-C3-C4
29	1R	308	CLA	C1-C2-C3-C4
30	1g	606	CHL	C1-C2-C3-C4
34	00	320	DGD	C4D-C5D-C6D-O5D
29	1b	603	CLA	CAA-CBA-CGA-O2A
33	1S	301	LHG	O6-C4-C5-C6
29	03	310	CLA	C2A-CAA-CBA-CGA
29	1B	602	CLA	C2A-CAA-CBA-CGA
29	1a	405	CLA	C2A-CAA-CBA-CGA
29	1n	611	CLA	C2A-CAA-CBA-CGA
29	1n	612	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
30	1N	308	CHL	C2A-CAA-CBA-CGA
29	1s	315	CLA	C5-C6-C7-C8
29	09	317	CLA	C2-C1-O2A-CGA
29	1B	612	CLA	C2-C1-O2A-CGA
29	1C	505	CLA	C2-C1-O2A-CGA
29	1a	408	CLA	C2-C1-O2A-CGA
29	1c	505	CLA	C2-C1-O2A-CGA
29	1c	512	CLA	C2-C1-O2A-CGA
29	1d	406	CLA	C2-C1-O2A-CGA
29	1g	604	CLA	C2-C1-O2A-CGA
29	1g	613	CLA	C2-C1-O2A-CGA
29	1s	312	CLA	C2-C1-O2A-CGA
29	1s	315	CLA	C2-C1-O2A-CGA
34	1c	519	DGD	C4A-C5A-C6A-C7A
30	00	307	CHL	C8-C10-C11-C12
29	1B	602	CLA	O1D-CGD-O2D-CED
33	1J	102	LHG	C15-C16-C17-C18
33	1G	618	LHG	C9-C10-C11-C12
30	04	303	CHL	O1D-CGD-O2D-CED
33	1C	526	LHG	O6-C4-C5-O7
47	1X	101	3PH	O11-C1-C2-O21
33	1g	618	LHG	C10-C11-C12-C13
41	1A	412	SQD	C11-C10-C9-C8
41	1a	410	SQD	C16-C17-C18-C19
29	1n	603	CLA	C4-C3-C5-C6
38	1A	406	PHO	C4-C3-C5-C6
31	1S	318	LUT	C1-C6-C7-C8
40	1E	102	PL9	C18-C19-C21-C22
29	1b	613	CLA	C10-C11-C12-C13
30	1G	601	CHL	C16-C17-C18-C19
34	1C	517	DGD	O6E-C1E-O5D-C6D
29	1B	616	CLA	C11-C12-C13-C14
29	1C	511	CLA	C2A-CAA-CBA-CGA
33	1S	301	LHG	C9-C10-C11-C12
43	1c	501	LNL	C4-C5-C6-C7
33	1J	102	LHG	O7-C5-C6-O8
33	1K	101	LHG	O7-C5-C6-O8
33	1j	102	LHG	O7-C5-C6-O8
34	1c	520	DGD	O1G-C1G-C2G-O2G
43	1C	515	LNL	C2-C3-C4-C5
33	01	316	LHG	C3-O3-P-O6
33	01	316	LHG	C4-O6-P-O3

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Mol	Chain	Res	Type	Atoms
33	03	314	LHG	C3-O3-P-O6
33	07	314	LHG	C3-O3-P-O6
33	09	316	LHG	C3-O3-P-O6
33	1C	520	LHG	C3-O3-P-O6
33	1C	522	LHG	C3-O3-P-O6
33	1C	522	LHG	C4-O6-P-O3
33	1C	523	LHG	C4-O6-P-O3
33	1C	527	LHG	C4-O6-P-O3
33	1F	101	LHG	C3-O3-P-O6
33	1F	101	LHG	C4-O6-P-O3
33	1G	618	LHG	C3-O3-P-O6
33	1I	103	LHG	C3-O3-P-O6
33	1N	301	LHG	C4-O6-P-O3
33	1N	317	LHG	C3-O3-P-O6
33	1P	201	LHG	C4-O6-P-O3
33	1R	318	LHG	C3-O3-P-O6
33	1S	301	LHG	C3-O3-P-O6
33	1V	201	LHG	C3-O3-P-O6
33	1V	201	LHG	C4-O6-P-O3
33	1b	624	LHG	C3-O3-P-O6
33	1b	624	LHG	C4-O6-P-O3
33	1b	626	LHG	C3-O3-P-O6
33	1c	521	LHG	C3-O3-P-O6
33	1d	401	LHG	C4-O6-P-O3
33	1d	402	LHG	C3-O3-P-O6
33	1j	102	LHG	C3-O3-P-O6
33	1j	102	LHG	C4-O6-P-O3
33	1n	616	LHG	C3-O3-P-O6
33	1w	102	LHG	C3-O3-P-O6
33	1w	103	LHG	C3-O3-P-O6
38	1A	406	PHO	CHA-CBD-CGD-O1D
38	1A	406	PHO	CHA-CBD-CGD-O2D
34	1c	518	DGD	O1G-C1G-C2G-C3G
34	1c	519	DGD	C1G-C2G-C3G-O3G
41	1S	302	SQD	C44-C45-C46-O48
29	00	302	CLA	C12-C13-C15-C16
29	1B	606	CLA	C11-C12-C13-C15
30	00	306	CHL	C11-C12-C13-C15
30	1N	302	CHL	C11-C10-C8-C7
34	1c	520	DGD	C2B-C3B-C4B-C5B
29	1B	605	CLA	C11-C12-C13-C14
29	1b	610	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
29	1b	613	CLA	C6-C7-C8-C9
29	1c	512	CLA	C14-C13-C15-C16
29	1d	403	CLA	C11-C10-C8-C9
29	1n	603	CLA	C6-C7-C8-C9
30	00	306	CHL	C14-C13-C15-C16
30	00	308	CHL	C14-C13-C15-C16
30	01	304	CHL	C14-C13-C15-C16
30	05	305	CHL	C6-C7-C8-C9
29	1B	601	CLA	C10-C11-C12-C13
41	1L	102	SQD	C25-C26-C27-C28
29	1C	509	CLA	O1A-CGA-O2A-C1
29	1c	508	CLA	C6-C7-C8-C10
33	1n	616	LHG	C14-C15-C16-C17
47	1X	101	3PH	C36-C37-C38-C39
30	1g	609	CHL	C5-C6-C7-C8
40	1r	301	PL9	C23-C24-C26-C27
30	1N	310	CHL	C16-C17-C18-C20
29	1C	509	CLA	CBA-CGA-O2A-C1
33	00	317	LHG	C32-C33-C34-C35
41	1B	628	SQD	C17-C18-C19-C20
41	1b	622	SQD	C11-C10-C9-C8
33	1t	101	LHG	C7-C8-C9-C10
30	1n	605	CHL	C4C-C3C-CAC-CBC
33	1b	623	LHG	C24-C25-C26-C27
29	1c	511	CLA	CAA-CBA-CGA-O2A
33	00	321	LHG	C11-C12-C13-C14
47	1X	101	3PH	C33-C34-C35-C36
33	1w	104	LHG	C24-C23-O8-C6
30	1r	313	CHL	O1A-CGA-O2A-C1
29	1G	604	CLA	CBD-CGD-O2D-CED
29	1B	616	CLA	O1D-CGD-O2D-CED
29	09	302	CLA	C4B-C3B-CAB-CBB
29	1C	501	CLA	C4B-C3B-CAB-CBB
29	1R	309	CLA	C4B-C3B-CAB-CBB
30	1s	309	CHL	C4B-C3B-CAB-CBB
33	1n	616	LHG	C11-C10-C9-C8
29	01	312	CLA	C4C-C3C-CAC-CBC
30	00	308	CHL	C4C-C3C-CAC-CBC
34	1C	516	DGD	C8B-C9B-CAB-CBB
29	03	310	CLA	CAA-CBA-CGA-O1A
33	1N	318	LHG	O6-C4-C5-O7
33	1w	102	LHG	O6-C4-C5-O7

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Mol	Chain	Res	Type	Atoms
34	00	320	DGD	C5B-C6B-C7B-C8B
29	1G	610	CLA	CAA-CBA-CGA-O1A
29	1c	511	CLA	CAA-CBA-CGA-O1A
43	1C	514	LNL	O2-C1-C2-C3
32	09	315	VIV	C20-C21-C22-C23
33	1s	303	LHG	C26-C27-C28-C29
41	1L	102	SQD	C11-C12-C13-C14
42	1B	623	MGE	C2A-C3A-C4A-C5A
29	1b	608	CLA	C5-C6-C7-C8
34	1C	517	DGD	O1B-C1B-O2G-C2G
33	1s	303	LHG	C25-C26-C27-C28
34	1c	520	DGD	C2A-C3A-C4A-C5A
29	1G	603	CLA	CAA-CBA-CGA-O2A
29	01	301	CLA	C2-C1-O2A-CGA
29	01	307	CLA	C2-C1-O2A-CGA
29	1C	507	CLA	C2-C1-O2A-CGA
29	1D	404	CLA	C2-C1-O2A-CGA
29	1S	313	CLA	C2-C1-O2A-CGA
29	1c	503	CLA	C2-C1-O2A-CGA
29	1n	613	CLA	C2-C1-O2A-CGA
29	1r	309	CLA	C2-C1-O2A-CGA
30	1g	601	CHL	C2-C1-O2A-CGA
33	1K	101	LHG	O10-C23-C24-C25
41	1b	621	SQD	C15-C16-C17-C18
45	1f	101	HEM	CAD-CBD-CGD-O1D
29	00	318	CLA	C2A-CAA-CBA-CGA
29	01	307	CLA	C2A-CAA-CBA-CGA
29	1G	612	CLA	C2A-CAA-CBA-CGA
29	1S	313	CLA	C2A-CAA-CBA-CGA
29	1b	604	CLA	C2A-CAA-CBA-CGA
29	1n	602	CLA	C2A-CAA-CBA-CGA
29	1n	603	CLA	C2A-CAA-CBA-CGA
33	07	314	LHG	O7-C5-C6-O8
33	1b	624	LHG	O7-C5-C6-O8
34	1c	519	DGD	O2G-C2G-C3G-O3G
33	1C	527	LHG	C11-C10-C9-C8
33	1g	618	LHG	O10-C23-C24-C25
29	01	310	CLA	C3A-C2A-CAA-CBA
29	02	614	CLA	C3A-C2A-CAA-CBA
29	1b	606	CLA	C3A-C2A-CAA-CBA
30	01	304	CHL	C3A-C2A-CAA-CBA
30	1r	306	CHL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	00	306	CHL	C16-C17-C18-C20
41	1A	411	SQD	C14-C15-C16-C17
29	1b	610	CLA	CBA-CGA-O2A-C1
33	1C	527	LHG	C9-C10-C11-C12
33	1s	303	LHG	C27-C28-C29-C30
29	1N	303	CLA	C4-C3-C5-C6
40	1a	412	PL9	C25-C24-C26-C27
29	1B	607	CLA	C2-C3-C5-C6
40	1D	407	PL9	C4-C3-C7-C8
40	1a	412	PL9	C4-C3-C7-C8
33	1J	102	LHG	C11-C12-C13-C14
33	1R	318	LHG	C14-C15-C16-C17
33	1n	617	LHG	C24-C25-C26-C27
29	1B	606	CLA	C11-C10-C8-C9
29	1D	401	CLA	C6-C7-C8-C9
29	1b	611	CLA	C14-C13-C15-C16
29	1d	403	CLA	C6-C7-C8-C9
38	1A	406	PHO	C11-C12-C13-C14
29	1c	505	CLA	C16-C17-C18-C19
29	1d	406	CLA	C11-C12-C13-C14
45	1f	101	HEM	CAD-CBD-CGD-O2D
29	1r	312	CLA	C2C-C3C-CAC-CBC
42	1s	320	MGE	CBB-CCB-CDB-CEB
31	1n	615	LUT	C20-C13-C14-C15
31	1s	317	LUT	C20-C13-C14-C15
33	1I	103	LHG	C4-C5-C6-O8
34	1B	625	DGD	O1G-C1G-C2G-C3G
34	1b	627	DGD	O1G-C1G-C2G-C3G
35	1A	409	BCR	C16-C17-C18-C36
35	1j	101	BCR	C20-C21-C22-C37
46	1R	316	XAT	C40-C33-C34-C35
46	1r	316	XAT	C40-C33-C34-C35
33	1D	413	LHG	C25-C26-C27-C28
30	02	601	CHL	CAA-CBA-CGA-O1A
45	1f	101	HEM	CAA-CBA-CGA-O1A
29	1B	612	CLA	O1D-CGD-O2D-CED
29	1g	613	CLA	C2A-CAA-CBA-CGA
30	1g	601	CHL	C2A-CAA-CBA-CGA
33	1b	628	LHG	C17-C18-C19-C20
34	1B	625	DGD	O1B-C1B-C2B-C3B
33	1w	104	LHG	C24-C25-C26-C27
30	1N	310	CHL	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
38	1A	406	PHO	O2A-C1-C2-C3
33	00	317	LHG	O2-C2-C3-O3
33	1S	319	LHG	C24-C25-C26-C27
30	02	601	CHL	CAA-CBA-CGA-O2A
35	1j	101	BCR	C7-C8-C9-C34
40	1R	301	PL9	C9-C11-C12-C13
40	1a	412	PL9	C34-C36-C37-C38
29	1b	610	CLA	O1A-CGA-O2A-C1
41	1C	521	SQD	C28-C29-C30-C31
33	09	316	LHG	C28-C29-C30-C31
33	1s	303	LHG	C23-C24-C25-C26
29	1G	603	CLA	CAA-CBA-CGA-O1A
29	00	301	CLA	C1A-C2A-CAA-CBA
29	00	309	CLA	C1A-C2A-CAA-CBA
29	01	308	CLA	C1A-C2A-CAA-CBA
29	1A	407	CLA	C1A-C2A-CAA-CBA
29	1B	608	CLA	C1A-C2A-CAA-CBA
29	1N	303	CLA	C1A-C2A-CAA-CBA
29	1d	407	CLA	C1A-C2A-CAA-CBA
30	02	606	CHL	C1A-C2A-CAA-CBA
30	08	303	CHL	C1A-C2A-CAA-CBA
30	1R	313	CHL	C1A-C2A-CAA-CBA
30	1r	306	CHL	C1A-C2A-CAA-CBA
33	1N	318	LHG	C18-C19-C20-C21
29	1c	505	CLA	C6-C7-C8-C10
30	00	307	CHL	C11-C10-C8-C7
30	1N	302	CHL	C6-C7-C8-C10
32	09	315	VIV	C17-C18-C20-C21
30	06	601	CHL	CAA-CBA-CGA-O1A
33	1N	318	LHG	C13-C14-C15-C16
47	1X	101	3PH	C26-C27-C28-C29
33	1j	102	LHG	C12-C13-C14-C15
30	01	305	CHL	C3C-C2C-CMC-OMC
30	03	305	CHL	C3C-C2C-CMC-OMC
30	1G	601	CHL	C3C-C2C-CMC-OMC
45	1f	101	HEM	CAA-CBA-CGA-O2A
34	00	320	DGD	C3B-C4B-C5B-C6B
29	1D	401	CLA	C8-C10-C11-C12
33	1c	522	LHG	O9-C7-C8-C9
34	1A	414	DGD	O1A-C1A-C2A-C3A
33	1a	413	LHG	C26-C27-C28-C29
29	1C	502	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
29	1C	505	CLA	C2A-CAA-CBA-CGA
29	1r	303	CLA	C2A-CAA-CBA-CGA
29	1r	309	CLA	C2A-CAA-CBA-CGA
29	1s	312	CLA	C2A-CAA-CBA-CGA
30	00	307	CHL	C2A-CAA-CBA-CGA
33	1b	625	LHG	O6-C4-C5-O7
40	1R	301	PL9	C3-C7-C8-C9
29	03	310	CLA	CAA-CBA-CGA-O2A
30	1s	308	CHL	CAA-CBA-CGA-O2A
33	1L	101	LHG	C24-C25-C26-C27
33	1r	317	LHG	C9-C10-C11-C12
33	00	321	LHG	O6-C4-C5-C6
29	1c	512	CLA	C5-C6-C7-C8
30	1s	308	CHL	CAA-CBA-CGA-O1A
29	1S	316	CLA	CBA-CGA-O2A-C1
29	1B	608	CLA	C4-C3-C5-C6
30	09	308	CHL	C4-C3-C5-C6
40	1d	410	PL9	C45-C44-C46-C47
33	1S	303	LHG	C28-C29-C30-C31
29	1A	404	CLA	C2-C3-C5-C6
40	1a	412	PL9	C23-C24-C26-C27
29	00	309	CLA	C2B-C3B-CAB-CBB
29	00	318	CLA	C2B-C3B-CAB-CBB
29	03	308	CLA	C2B-C3B-CAB-CBB
29	04	307	CLA	C2B-C3B-CAB-CBB
29	05	310	CLA	C2B-C3B-CAB-CBB
29	07	301	CLA	C2B-C3B-CAB-CBB
29	07	308	CLA	C2B-C3B-CAB-CBB
29	08	307	CLA	C2B-C3B-CAB-CBB
29	08	312	CLA	C2B-C3B-CAB-CBB
29	1B	605	CLA	C2B-C3B-CAB-CBB
29	1B	607	CLA	C2B-C3B-CAB-CBB
29	1C	501	CLA	C2B-C3B-CAB-CBB
29	1C	506	CLA	C2B-C3B-CAB-CBB
29	1G	610	CLA	C2B-C3B-CAB-CBB
29	1R	307	CLA	C2B-C3B-CAB-CBB
29	1R	309	CLA	C2B-C3B-CAB-CBB
29	1b	608	CLA	C2B-C3B-CAB-CBB
29	1c	504	CLA	C2B-C3B-CAB-CBB
29	1n	612	CLA	C2B-C3B-CAB-CBB
29	1r	311	CLA	C2B-C3B-CAB-CBB
29	1s	315	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
30	00	304	CHL	C2B-C3B-CAB-CBB
30	00	305	CHL	C2B-C3B-CAB-CBB
30	01	302	CHL	C2B-C3B-CAB-CBB
30	02	603	CHL	C2B-C3B-CAB-CBB
30	02	604	CHL	C2B-C3B-CAB-CBB
30	02	606	CHL	C2B-C3B-CAB-CBB
30	02	607	CHL	C2B-C3B-CAB-CBB
30	03	305	CHL	C2B-C3B-CAB-CBB
30	04	301	CHL	C2B-C3B-CAB-CBB
30	04	304	CHL	C2B-C3B-CAB-CBB
30	04	305	CHL	C2B-C3B-CAB-CBB
30	05	306	CHL	C2B-C3B-CAB-CBB
30	05	307	CHL	C2B-C3B-CAB-CBB
30	05	313	CHL	C2B-C3B-CAB-CBB
30	06	601	CHL	C2B-C3B-CAB-CBB
30	06	603	CHL	C2B-C3B-CAB-CBB
30	06	605	CHL	C2B-C3B-CAB-CBB
30	06	606	CHL	C2B-C3B-CAB-CBB
30	07	303	CHL	C2B-C3B-CAB-CBB
30	07	304	CHL	C2B-C3B-CAB-CBB
30	07	305	CHL	C2B-C3B-CAB-CBB
30	07	306	CHL	C2B-C3B-CAB-CBB
30	08	302	CHL	C2B-C3B-CAB-CBB
30	08	304	CHL	C2B-C3B-CAB-CBB
30	08	305	CHL	C2B-C3B-CAB-CBB
30	09	304	CHL	C2B-C3B-CAB-CBB
30	1G	601	CHL	C2B-C3B-CAB-CBB
30	1G	605	CHL	C2B-C3B-CAB-CBB
30	1G	608	CHL	C2B-C3B-CAB-CBB
30	1G	609	CHL	C2B-C3B-CAB-CBB
30	1N	302	CHL	C2B-C3B-CAB-CBB
30	1N	310	CHL	C2B-C3B-CAB-CBB
30	1R	305	CHL	C2B-C3B-CAB-CBB
30	1S	309	CHL	C2B-C3B-CAB-CBB
30	1g	601	CHL	C2B-C3B-CAB-CBB
30	1g	605	CHL	C2B-C3B-CAB-CBB
30	1g	609	CHL	C2B-C3B-CAB-CBB
30	1n	605	CHL	C2B-C3B-CAB-CBB
30	1r	307	CHL	C2B-C3B-CAB-CBB
30	1r	313	CHL	C2B-C3B-CAB-CBB
33	03	314	LHG	C14-C15-C16-C17
33	1W	102	LHG	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
41	1c	517	SQD	C28-C29-C30-C31
29	05	303	CLA	CAA-CBA-CGA-O1A
30	02	605	CHL	CAA-CBA-CGA-O2A
33	00	319	LHG	C29-C30-C31-C32
29	09	301	CLA	C5-C6-C7-C8
33	1W	101	LHG	C24-C25-C26-C27
38	1A	405	PHO	C3-C5-C6-C7
30	02	603	CHL	CBD-CGD-O2D-CED
29	07	309	CLA	O2A-C1-C2-C3
31	1n	615	LUT	C12-C13-C14-C15
31	1s	317	LUT	C12-C13-C14-C15
35	1A	409	BCR	C16-C17-C18-C19
35	1j	101	BCR	C20-C21-C22-C23
46	1R	316	XAT	C32-C33-C34-C35
46	1r	316	XAT	C32-C33-C34-C35
29	02	614	CLA	CAA-CBA-CGA-O1A
29	05	303	CLA	CAA-CBA-CGA-O2A
29	1G	610	CLA	CAA-CBA-CGA-O2A
30	08	303	CHL	CAA-CBA-CGA-O1A
30	08	303	CHL	CAA-CBA-CGA-O2A
30	1G	609	CHL	C2C-C3C-CAC-CBC
34	1A	414	DGD	O1G-C1G-C2G-O2G
41	1B	620	SQD	O47-C45-C46-O48
41	1w	101	SQD	O47-C45-C46-O48
34	1c	520	DGD	C2A-C1A-O1G-C1G
29	1D	401	CLA	C2A-CAA-CBA-CGA
29	1c	509	CLA	C2A-CAA-CBA-CGA
43	1C	514	LNL	O1-C1-C2-C3
41	1B	629	SQD	C24-C25-C26-C27
34	1b	627	DGD	O6D-C1D-O3G-C3G
30	04	303	CHL	CAA-CBA-CGA-O2A
30	06	601	CHL	CAA-CBA-CGA-O2A
41	1B	620	SQD	C9-C10-C11-C12
33	1J	102	LHG	O10-C23-C24-C25
29	1A	404	CLA	C2-C1-O2A-CGA
29	1R	302	CLA	C2-C1-O2A-CGA
29	1g	614	CLA	CAA-CBA-CGA-O1A
33	09	318	LHG	C11-C12-C13-C14
29	01	310	CLA	C6-C7-C8-C9
29	1b	604	CLA	C11-C10-C8-C9
34	1c	520	DGD	O1A-C1A-O1G-C1G
30	01	303	CHL	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
30	1s	304	CHL	CAA-CBA-CGA-O2A
30	09	308	CHL	C4C-C3C-CAC-CBC
33	1g	618	LHG	O2-C2-C3-O3
33	1K	101	LHG	C10-C11-C12-C13
29	1c	505	CLA	C10-C11-C12-C13
29	06	602	CLA	C2A-CAA-CBA-CGA
29	1D	402	CLA	C2A-CAA-CBA-CGA
30	06	606	CHL	C2A-CAA-CBA-CGA
30	02	604	CHL	CAA-CBA-CGA-O2A
29	01	301	CLA	C4C-C3C-CAC-CBC
29	09	317	CLA	C6-C7-C8-C9
30	08	304	CHL	C4C-C3C-CAC-CBC
29	01	312	CLA	CBD-CGD-O2D-CED
29	1B	604	CLA	O1A-CGA-O2A-C1
31	01	315	LUT	C5-C6-C7-C8
31	1G	616	LUT	C5-C6-C7-C8
35	1H	101	BCR	C1-C6-C7-C8
35	1I	102	BCR	C5-C6-C7-C8
35	1Z	102	BCR	C1-C6-C7-C8
35	1a	409	BCR	C1-C6-C7-C8
35	1i	101	BCR	C1-C6-C7-C8
38	1A	406	PHO	C10-C11-C12-C13
30	1N	308	CHL	O1D-CGD-O2D-CED
29	02	614	CLA	CAA-CBA-CGA-O2A
29	1g	614	CLA	CAA-CBA-CGA-O2A
30	02	605	CHL	CAA-CBA-CGA-O1A
30	1G	606	CHL	CAA-CBA-CGA-O2A
30	1s	304	CHL	CAA-CBA-CGA-O1A
29	1c	512	CLA	C8-C10-C11-C12
46	1G	617	XAT	C33-C34-C35-C15
33	1w	103	LHG	C10-C11-C12-C13
29	1C	502	CLA	C4-C3-C5-C6
29	1G	612	CLA	C4-C3-C5-C6
29	1r	312	CLA	C4-C3-C5-C6
30	1G	607	CHL	C4-C3-C5-C6
38	1A	406	PHO	C15-C16-C17-C18
29	1c	515	CLA	C11-C12-C13-C14
29	1G	602	CLA	C2-C3-C5-C6
29	1g	610	CLA	C2-C3-C5-C6
30	1N	310	CHL	C2-C3-C5-C6
29	1R	311	CLA	CAA-CBA-CGA-O2A
30	1R	313	CHL	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
41	1S	302	SQD	C9-C10-C11-C12
34	00	320	DGD	O6D-C5D-C6D-O5D
33	1R	317	LHG	C24-C25-C26-C27
33	1d	401	LHG	C11-C10-C9-C8
29	1b	617	CLA	CAA-CBA-CGA-O2A
29	1s	314	CLA	CAA-CBA-CGA-O2A
30	02	604	CHL	CAA-CBA-CGA-O1A
41	1b	622	SQD	O49-C7-C8-C9
33	00	321	LHG	O6-C4-C5-O7
29	03	312	CLA	CAA-CBA-CGA-O2A
29	1s	305	CLA	CAA-CBA-CGA-O2A
33	1G	618	LHG	C13-C14-C15-C16
33	1j	102	LHG	C26-C27-C28-C29
29	04	306	CLA	CAA-CBA-CGA-O2A
29	04	309	CLA	CAA-CBA-CGA-O2A
29	1b	617	CLA	CAA-CBA-CGA-O1A
30	01	303	CHL	CAA-CBA-CGA-O1A
30	02	607	CHL	CAA-CBA-CGA-O2A
30	04	303	CHL	CAA-CBA-CGA-O1A
30	1r	305	CHL	CAA-CBA-CGA-O2A
29	08	312	CLA	C4B-C3B-CAB-CBB
29	1B	612	CLA	C4B-C3B-CAB-CBB
30	1N	310	CHL	C4B-C3B-CAB-CBB
33	1b	625	LHG	O6-C4-C5-C6
29	01	310	CLA	C4-C3-C5-C6
29	1b	610	CLA	C4-C3-C5-C6
29	1c	510	CLA	C4-C3-C5-C6
40	1A	410	PL9	C14-C16-C17-C18
40	1R	301	PL9	C14-C16-C17-C18
29	01	308	CLA	C11-C12-C13-C15
29	1A	404	CLA	C11-C10-C8-C7
29	1d	403	CLA	C11-C10-C8-C7
30	1G	607	CHL	C2-C3-C5-C6
38	1A	406	PHO	C11-C12-C13-C15
30	04	303	CHL	CBD-CGD-O2D-CED
29	1g	610	CLA	O1D-CGD-O2D-CED
33	1a	413	LHG	O1-C1-C2-O2
34	1C	517	DGD	C2E-C1E-O5D-C6D
29	1r	303	CLA	CAA-CBA-CGA-O2A
33	1C	523	LHG	O7-C5-C6-O8
29	00	318	CLA	O1A-CGA-O2A-C1
29	1B	604	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
33	1c	521	LHG	C24-C25-C26-C27
33	1e	102	LHG	C30-C31-C32-C33
29	1N	303	CLA	C10-C11-C12-C13
29	1B	614	CLA	CAA-CBA-CGA-O2A
30	01	305	CHL	CAA-CBA-CGA-O2A
30	1g	606	CHL	O2A-C1-C2-C3
33	1R	317	LHG	O8-C23-C24-C25
30	07	311	CHL	C2C-C3C-CAC-CBC
29	04	311	CLA	CAA-CBA-CGA-O2A
29	1n	612	CLA	CAA-CBA-CGA-O2A
30	02	603	CHL	CAA-CBA-CGA-O2A
30	03	303	CHL	CAA-CBA-CGA-O2A
35	1j	101	BCR	C35-C13-C14-C15
29	1b	606	CLA	CAA-CBA-CGA-O2A
29	09	302	CLA	CBD-CGD-O2D-CED
34	1A	414	DGD	O6D-C5D-C6D-O5D
29	1B	604	CLA	C4-C3-C5-C6
29	1c	503	CLA	C4-C3-C5-C6
29	1c	504	CLA	C4-C3-C5-C6
29	1d	407	CLA	C4-C3-C5-C6
40	1A	410	PL9	C40-C39-C41-C42
29	00	311	CLA	CAA-CBA-CGA-O2A
29	04	310	CLA	CAA-CBA-CGA-O2A
29	1S	315	CLA	CAA-CBA-CGA-O2A
33	09	318	LHG	C4-O6-P-O3
29	1d	406	CLA	C2-C3-C5-C6
29	1n	603	CLA	C2-C3-C5-C6
30	09	308	CHL	C2-C3-C5-C6
40	1d	410	PL9	C43-C44-C46-C47
33	1e	102	LHG	O7-C7-C8-C9
29	1C	502	CLA	C11-C12-C13-C14
29	1b	602	CLA	C11-C10-C8-C9
29	1c	514	CLA	C11-C10-C8-C9
30	01	306	CHL	C6-C7-C8-C9
30	1g	609	CHL	C2C-C3C-CAC-CBC
33	1C	526	LHG	C9-C10-C11-C12
41	1A	412	SQD	C11-C12-C13-C14
47	1X	101	3PH	C23-C24-C25-C26
29	02	602	CLA	CAA-CBA-CGA-O2A
29	03	312	CLA	CAA-CBA-CGA-O1A
29	1s	305	CLA	CAA-CBA-CGA-O1A
33	1g	618	LHG	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
33	1L	101	LHG	C17-C18-C19-C20
29	05	302	CLA	C3A-C2A-CAA-CBA
29	1d	403	CLA	C3A-C2A-CAA-CBA
30	08	303	CHL	C3A-C2A-CAA-CBA
30	1R	313	CHL	C3A-C2A-CAA-CBA
29	1N	314	CLA	CAA-CBA-CGA-O2A
29	1R	310	CLA	CAA-CBA-CGA-O2A
33	1S	319	LHG	O8-C23-C24-C25
29	04	307	CLA	CAA-CBA-CGA-O2A
29	1A	407	CLA	CAA-CBA-CGA-O2A
29	00	309	CLA	CAD-CBD-CGD-O2D
29	01	307	CLA	CAD-CBD-CGD-O2D
29	02	609	CLA	CAD-CBD-CGD-O2D
29	05	301	CLA	CAD-CBD-CGD-O2D
29	06	602	CLA	CAD-CBD-CGD-O2D
29	09	309	CLA	CAD-CBD-CGD-O2D
29	1B	604	CLA	CAD-CBD-CGD-O2D
29	1B	608	CLA	CAD-CBD-CGD-O2D
29	1C	505	CLA	CAD-CBD-CGD-O2D
29	1C	511	CLA	CAD-CBD-CGD-O2D
29	1C	512	CLA	CAD-CBD-CGD-O2D
29	1D	405	CLA	CAD-CBD-CGD-O2D
29	1G	602	CLA	CAD-CBD-CGD-O2D
29	1N	304	CLA	CAD-CBD-CGD-O2D
29	1S	305	CLA	CAD-CBD-CGD-O2D
29	1S	312	CLA	CAD-CBD-CGD-O2D
29	1b	607	CLA	CAD-CBD-CGD-O2D
29	1b	613	CLA	CAD-CBD-CGD-O2D
29	1b	615	CLA	CAD-CBD-CGD-O2D
29	1c	514	CLA	CAD-CBD-CGD-O2D
29	1c	515	CLA	CAD-CBD-CGD-O2D
29	1d	406	CLA	CAD-CBD-CGD-O2D
29	1g	602	CLA	CAD-CBD-CGD-O2D
29	1g	610	CLA	CAD-CBD-CGD-O2D
29	1n	602	CLA	CAD-CBD-CGD-O2D
29	1n	614	CLA	CAD-CBD-CGD-O2D
29	1s	305	CLA	CAD-CBD-CGD-O2D
29	1s	316	CLA	CAD-CBD-CGD-O2D
30	01	302	CHL	CAD-CBD-CGD-O2D
30	1G	608	CHL	CAD-CBD-CGD-O2D
30	1g	606	CHL	CAD-CBD-CGD-O2D
30	1g	607	CHL	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
30	1s	304	CHL	CAD-CBD-CGD-O2D
30	1N	310	CHL	C2C-C3C-CAC-CBC
33	1W	102	LHG	C10-C11-C12-C13
29	01	313	CLA	C2A-CAA-CBA-CGA
30	00	308	CHL	C8-C10-C11-C12
29	1b	604	CLA	C2-C1-O2A-CGA
29	00	312	CLA	CAA-CBA-CGA-O2A
29	02	610	CLA	CAA-CBA-CGA-O2A
29	04	311	CLA	CAA-CBA-CGA-O1A
29	1G	613	CLA	CAA-CBA-CGA-O2A
30	05	304	CHL	CAA-CBA-CGA-O2A
30	06	605	CHL	CAA-CBA-CGA-O2A
30	1n	608	CHL	CAA-CBA-CGA-O2A
42	1C	524	MGE	O2G-C1B-C2B-C3B
33	1N	318	LHG	C11-C12-C13-C14
40	1A	410	PL9	C45-C44-C46-C47
29	04	309	CLA	CAA-CBA-CGA-O1A
29	1r	303	CLA	CAA-CBA-CGA-O1A
29	1s	314	CLA	CAA-CBA-CGA-O1A
30	1R	313	CHL	CAA-CBA-CGA-O1A
30	1r	305	CHL	CAA-CBA-CGA-O1A
41	1A	413	SQD	O5-C1-O6-C44
29	1B	604	CLA	C2-C3-C5-C6
29	1B	608	CLA	C2-C3-C5-C6
29	09	317	CLA	CAA-CBA-CGA-O2A
30	01	304	CHL	CAA-CBA-CGA-O2A
33	1J	102	LHG	C17-C18-C19-C20
33	1N	317	LHG	C13-C14-C15-C16
35	1H	101	BCR	C21-C22-C23-C24
33	07	314	LHG	C4-C5-C6-O8
33	1e	102	LHG	C4-C5-C6-O8
42	1s	320	MGE	C1G-C2G-C3G-O3G
46	1r	316	XAT	O24-C26-C27-C28
29	04	306	CLA	CAA-CBA-CGA-O1A
29	07	312	CLA	CAA-CBA-CGA-O2A
29	1r	311	CLA	CAA-CBA-CGA-O2A
30	03	303	CHL	CAA-CBA-CGA-O1A
30	1S	304	CHL	CAA-CBA-CGA-O2A
29	00	303	CLA	O1A-CGA-O2A-C1
47	1X	101	3PH	C27-C28-C29-C2A
29	1C	505	CLA	C10-C11-C12-C13
29	1G	612	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
29	1b	615	CLA	CAA-CBA-CGA-O2A
33	1E	101	LHG	O7-C7-C8-C9
33	07	314	LHG	C7-C8-C9-C10
43	1C	514	LNL	C13-C14-C15-C16
33	1G	618	LHG	O10-C23-C24-C25
29	03	309	CLA	CAA-CBA-CGA-O2A
29	07	312	CLA	CAA-CBA-CGA-O1A
29	09	312	CLA	CAA-CBA-CGA-O2A
29	1n	612	CLA	CAA-CBA-CGA-O1A
30	02	603	CHL	CAA-CBA-CGA-O1A
30	02	607	CHL	CAA-CBA-CGA-O1A
30	1S	304	CHL	CAA-CBA-CGA-O1A
30	1N	308	CHL	O2A-C1-C2-C3
34	1A	414	DGD	C2B-C3B-C4B-C5B
29	1r	312	CLA	CAA-CBA-CGA-O2A
34	1C	518	DGD	O2G-C1B-C2B-C3B
29	1c	507	CLA	CBD-CGD-O2D-CED
29	1B	601	CLA	CAA-CBA-CGA-O1A
29	02	602	CLA	CAA-CBA-CGA-O1A
29	03	309	CLA	CAA-CBA-CGA-O1A
29	1G	611	CLA	CAA-CBA-CGA-O1A
29	1G	611	CLA	CAA-CBA-CGA-O2A
29	1G	613	CLA	CAA-CBA-CGA-O1A
29	1R	309	CLA	CAA-CBA-CGA-O1A
29	1R	309	CLA	CAA-CBA-CGA-O2A
29	1R	311	CLA	CAA-CBA-CGA-O1A
29	1r	311	CLA	CAA-CBA-CGA-O1A
30	01	302	CHL	CAA-CBA-CGA-O2A
30	01	305	CHL	CAA-CBA-CGA-O1A
30	02	606	CHL	CAA-CBA-CGA-O1A
30	02	606	CHL	CAA-CBA-CGA-O2A
30	06	605	CHL	CAA-CBA-CGA-O1A
30	1G	606	CHL	CAA-CBA-CGA-O1A
34	1C	517	DGD	C3B-C4B-C5B-C6B
33	1e	102	LHG	C26-C27-C28-C29
41	1b	622	SQD	C25-C26-C27-C28
29	1G	604	CLA	O1D-CGD-O2D-CED
30	02	603	CHL	O1D-CGD-O2D-CED
29	00	301	CLA	CHA-CBD-CGD-O1D
29	00	301	CLA	CHA-CBD-CGD-O2D
29	01	309	CLA	CHA-CBD-CGD-O2D
29	01	310	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
29	1B	607	CLA	CHA-CBD-CGD-O2D
29	1B	610	CLA	CHA-CBD-CGD-O1D
29	1C	508	CLA	CHA-CBD-CGD-O2D
29	1C	513	CLA	CHA-CBD-CGD-O2D
29	1G	603	CLA	CHA-CBD-CGD-O2D
29	1G	612	CLA	CHA-CBD-CGD-O1D
29	1G	612	CLA	CHA-CBD-CGD-O2D
29	1b	610	CLA	CHA-CBD-CGD-O2D
29	1b	614	CLA	CHA-CBD-CGD-O1D
29	1b	614	CLA	CHA-CBD-CGD-O2D
29	1c	508	CLA	CHA-CBD-CGD-O1D
29	1c	510	CLA	CHA-CBD-CGD-O2D
29	1g	604	CLA	CHA-CBD-CGD-O2D
29	1s	315	CLA	CHA-CBD-CGD-O1D
29	1s	315	CLA	CHA-CBD-CGD-O2D
30	1S	308	CHL	CHA-CBD-CGD-O1D
30	1S	308	CHL	CHA-CBD-CGD-O2D
30	1r	306	CHL	CHA-CBD-CGD-O1D
30	1r	306	CHL	CHA-CBD-CGD-O2D
29	02	610	CLA	CAA-CBA-CGA-O1A
29	04	307	CLA	CAA-CBA-CGA-O1A
29	04	310	CLA	CAA-CBA-CGA-O1A
29	09	312	CLA	CAA-CBA-CGA-O1A
30	05	304	CHL	CAA-CBA-CGA-O1A
29	1B	612	CLA	CAA-CBA-CGA-O2A
29	1S	313	CLA	CAA-CBA-CGA-O2A
29	1s	315	CLA	CAA-CBA-CGA-O2A
33	1B	621	LHG	O7-C7-C8-C9
33	1P	201	LHG	O7-C7-C8-C9
29	00	303	CLA	CBA-CGA-O2A-C1
29	1r	312	CLA	C2-C3-C5-C6
33	1C	519	LHG	C24-C25-C26-C27
29	00	312	CLA	CAA-CBA-CGA-O1A
29	1B	614	CLA	CAA-CBA-CGA-O1A
30	1n	608	CHL	CAA-CBA-CGA-O1A
41	1S	302	SQD	C24-C25-C26-C27
29	1D	404	CLA	CAA-CBA-CGA-O2A
33	1L	101	LHG	O7-C7-C8-C9
42	1k	101	MGE	O2G-C1B-C2B-C3B
33	1N	318	LHG	O7-C5-C6-O8
33	1e	102	LHG	O7-C5-C6-O8
33	1g	618	LHG	O7-C5-C6-O8

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Mol	Chain	Res	Type	Atoms
33	1s	302	LHG	O7-C5-C6-O8
33	1G	618	LHG	C23-C24-C25-C26
42	1B	623	MGE	C1A-C2A-C3A-C4A
29	1c	504	CLA	O1A-CGA-O2A-C1
33	1e	102	LHG	C27-C28-C29-C30
43	1C	514	LNL	C3-C4-C5-C6
29	00	318	CLA	CAA-CBA-CGA-O2A
29	02	613	CLA	CAA-CBA-CGA-O2A
29	1B	610	CLA	CAA-CBA-CGA-O2A
29	1a	405	CLA	CAA-CBA-CGA-O2A
30	1N	302	CHL	CAA-CBA-CGA-O2A
33	01	316	LHG	O8-C23-C24-C25
33	1a	401	LHG	O7-C7-C8-C9
29	00	302	CLA	C2A-CAA-CBA-CGA
29	1c	504	CLA	C2A-CAA-CBA-CGA
30	02	603	CHL	C2A-CAA-CBA-CGA
30	1S	304	CHL	C2A-CAA-CBA-CGA
29	00	311	CLA	CAA-CBA-CGA-O1A
30	1N	307	CHL	CAA-CBA-CGA-O2A
38	1a	407	PHO	CHA-CBD-CGD-O1D
29	00	309	CLA	CBA-CGA-O2A-C1
29	1c	504	CLA	CBA-CGA-O2A-C1
33	00	321	LHG	C9-C10-C11-C12
33	1K	101	LHG	C2-C3-O3-P
33	1w	102	LHG	O7-C7-C8-C9
34	1B	626	DGD	O1G-C1A-C2A-C3A
34	1c	519	DGD	O2G-C1B-C2B-C3B
47	1X	101	3PH	O21-C21-C22-C23
33	1j	102	LHG	C11-C10-C9-C8
33	00	316	LHG	C28-C29-C30-C31
41	1b	621	SQD	C11-C12-C13-C14
29	1D	404	CLA	C11-C10-C8-C7
29	1c	510	CLA	C2-C3-C5-C6
33	03	314	LHG	C28-C29-C30-C31
29	1g	613	CLA	CAA-CBA-CGA-O2A
33	1C	522	LHG	O7-C7-C8-C9
29	00	302	CLA	C14-C13-C15-C16
29	01	308	CLA	C11-C12-C13-C14
29	1B	610	CLA	C11-C10-C8-C9
29	1B	610	CLA	C11-C12-C13-C14
29	1c	505	CLA	C11-C12-C13-C14
30	00	307	CHL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
30	1N	302	CHL	C11-C10-C8-C9
40	1A	410	PL9	C29-C31-C32-C33
29	08	306	CLA	C2B-C3B-CAB-CBB
29	1S	316	CLA	C2B-C3B-CAB-CBB
29	1S	315	CLA	CAA-CBA-CGA-O1A
33	1F	101	LHG	C29-C30-C31-C32
33	1w	104	LHG	C13-C14-C15-C16
29	1c	514	CLA	CAA-CBA-CGA-O2A
41	1A	413	SQD	C4-C5-C6-S
41	1B	620	SQD	C4-C5-C6-S
41	1D	411	SQD	C4-C5-C6-S
41	1L	102	SQD	C4-C5-C6-S
41	1S	302	SQD	C4-C5-C6-S
41	1m	101	SQD	C4-C5-C6-S
41	1s	301	SQD	C4-C5-C6-S
40	1R	301	PL9	C41-C42-C43-C44
40	1d	410	PL9	C11-C12-C13-C14
40	1r	301	PL9	C46-C47-C48-C49
29	01	308	CLA	CAA-CBA-CGA-O2A
33	1C	525	LHG	C24-C25-C26-C27
33	1d	401	LHG	C13-C14-C15-C16
33	1R	317	LHG	O10-C23-C24-C25
33	07	314	LHG	C14-C15-C16-C17
42	1B	624	MGE	O2G-C1B-C2B-C3B
29	05	302	CLA	CAA-CBA-CGA-O2A
29	00	318	CLA	CBA-CGA-O2A-C1
33	1W	102	LHG	C11-C10-C9-C8
29	09	301	CLA	O1D-CGD-O2D-CED
29	00	312	CLA	C1A-C2A-CAA-CBA
29	02	608	CLA	CHA-CBD-CGD-O2D
29	04	312	CLA	CHA-CBD-CGD-O2D
29	05	302	CLA	C1A-C2A-CAA-CBA
29	08	308	CLA	CHA-CBD-CGD-O2D
29	09	312	CLA	C1A-C2A-CAA-CBA
29	1G	611	CLA	CHA-CBD-CGD-O2D
29	1G	613	CLA	CHA-CBD-CGD-O2D
29	1R	309	CLA	C1A-C2A-CAA-CBA
29	1R	312	CLA	C1A-C2A-CAA-CBA
29	1b	609	CLA	C1A-C2A-CAA-CBA
29	1r	304	CLA	C1A-C2A-CAA-CBA
29	1s	314	CLA	CHA-CBD-CGD-O2D
30	01	303	CHL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	04	303	CHL	C1A-C2A-CAA-CBA
30	05	313	CHL	CHA-CBD-CGD-O2D
30	07	303	CHL	CHA-CBD-CGD-O2D
30	1G	606	CHL	C1A-C2A-CAA-CBA
30	1S	307	CHL	CHA-CBD-CGD-O2D
30	1n	606	CHL	C1A-C2A-CAA-CBA
30	1n	608	CHL	C1A-C2A-CAA-CBA
30	1s	304	CHL	C1A-C2A-CAA-CBA
30	1s	310	CHL	CHA-CBD-CGD-O2D
33	1L	101	LHG	C7-C8-C9-C10
33	03	314	LHG	C16-C17-C18-C19
29	1N	314	CLA	CAA-CBA-CGA-O1A
33	1w	102	LHG	O9-C7-C8-C9
40	1R	301	PL9	C46-C47-C48-C49
29	00	309	CLA	C2-C1-O2A-CGA
38	1A	405	PHO	C2-C1-O2A-CGA
33	1S	301	LHG	C10-C11-C12-C13
29	1b	606	CLA	CAA-CBA-CGA-O1A
30	01	304	CHL	CAA-CBA-CGA-O1A
33	1C	522	LHG	O9-C7-C8-C9
33	1P	201	LHG	O9-C7-C8-C9
34	1b	627	DGD	O1B-C1B-C2B-C3B
33	1I	101	LHG	C4-C5-C6-O8
34	1B	626	DGD	C1G-C2G-C3G-O3G
34	1B	627	DGD	C1G-C2G-C3G-O3G
29	07	309	CLA	O1A-CGA-O2A-C1
33	1C	526	LHG	O8-C23-C24-C25
33	1R	317	LHG	O7-C7-C8-C9
34	1c	519	DGD	O1G-C1A-C2A-C3A
29	1s	315	CLA	C2A-CAA-CBA-CGA
33	1W	102	LHG	C17-C18-C19-C20
40	1e	101	PL9	C2-C3-C7-C8
34	1c	519	DGD	O6D-C5D-C6D-O5D
38	1A	405	PHO	C16-C17-C18-C19
38	1d	404	PHO	C16-C17-C18-C20
29	1B	612	CLA	CAA-CBA-CGA-O1A
29	1r	312	CLA	CAA-CBA-CGA-O1A
33	1C	526	LHG	O10-C23-C24-C25
30	01	302	CHL	CAA-CBA-CGA-O1A
29	00	309	CLA	O1A-CGA-O2A-C1
33	1w	104	LHG	C11-C10-C9-C8
30	1N	310	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
38	1A	405	PHO	C4-C3-C5-C6
29	01	312	CLA	CAA-CBA-CGA-O2A
29	1n	613	CLA	CAA-CBA-CGA-O2A
33	1d	401	LHG	C5-C4-O6-P
29	1b	615	CLA	CAA-CBA-CGA-O1A
33	1e	102	LHG	O9-C7-C8-C9
29	1A	407	CLA	CAA-CBA-CGA-O1A
29	00	318	CLA	C10-C11-C12-C13
29	01	308	CLA	C15-C16-C17-C18
33	1K	101	LHG	C14-C15-C16-C17
29	00	311	CLA	C4B-C3B-CAB-CBB
29	00	312	CLA	C4B-C3B-CAB-CBB
29	00	318	CLA	C4B-C3B-CAB-CBB
29	03	308	CLA	C4B-C3B-CAB-CBB
29	04	307	CLA	C4B-C3B-CAB-CBB
29	06	608	CLA	C4B-C3B-CAB-CBB
29	07	302	CLA	C4B-C3B-CAB-CBB
29	07	310	CLA	C4B-C3B-CAB-CBB
29	08	306	CLA	C4B-C3B-CAB-CBB
29	08	307	CLA	C4B-C3B-CAB-CBB
29	08	309	CLA	C4B-C3B-CAB-CBB
29	09	310	CLA	C4B-C3B-CAB-CBB
29	09	312	CLA	C4B-C3B-CAB-CBB
29	1B	607	CLA	C4B-C3B-CAB-CBB
29	1G	611	CLA	C4B-C3B-CAB-CBB
29	1N	313	CLA	C4B-C3B-CAB-CBB
29	1S	316	CLA	C4B-C3B-CAB-CBB
29	1b	613	CLA	C4B-C3B-CAB-CBB
29	1g	612	CLA	C4B-C3B-CAB-CBB
29	1r	310	CLA	C4B-C3B-CAB-CBB
29	1r	311	CLA	C4B-C3B-CAB-CBB
30	03	303	CHL	C4B-C3B-CAB-CBB
30	04	301	CHL	C4B-C3B-CAB-CBB
30	06	604	CHL	C4B-C3B-CAB-CBB
30	08	302	CHL	C4B-C3B-CAB-CBB
30	1S	308	CHL	C4B-C3B-CAB-CBB
30	1r	305	CHL	C4B-C3B-CAB-CBB
33	07	314	LHG	C3-O3-P-O5
33	09	316	LHG	C3-O3-P-O5
33	1C	520	LHG	C3-O3-P-O5
33	1C	523	LHG	C3-O3-P-O5
33	1C	523	LHG	C4-O6-P-O5

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Mol	Chain	Res	Type	Atoms
33	1F	101	LHG	C3-O3-P-O5
33	1I	103	LHG	C3-O3-P-O5
33	1N	317	LHG	C3-O3-P-O5
33	1R	318	LHG	C3-O3-P-O5
33	1V	201	LHG	C4-O6-P-O5
33	1b	624	LHG	C3-O3-P-O5
33	1b	624	LHG	C4-O6-P-O5
33	1b	626	LHG	C3-O3-P-O5
33	1n	616	LHG	C3-O3-P-O5
33	1s	302	LHG	C4-O6-P-O4
29	09	317	CLA	CAA-CBA-CGA-O1A
29	1D	404	CLA	CAA-CBA-CGA-O1A
29	1G	612	CLA	CAA-CBA-CGA-O1A
29	1R	310	CLA	CAA-CBA-CGA-O1A
29	1S	313	CLA	CAA-CBA-CGA-O1A
29	1s	315	CLA	CAA-CBA-CGA-O1A
33	1a	401	LHG	O9-C7-C8-C9
34	1C	518	DGD	O1B-C1B-C2B-C3B
47	1X	101	3PH	O22-C21-C22-C23
29	1c	509	CLA	CAA-CBA-CGA-O2A
31	01	314	LUT	C5-C6-C7-C8
31	1g	616	LUT	C5-C6-C7-C8
31	1s	317	LUT	C5-C6-C7-C8
35	04	313	BCR	C23-C24-C25-C30
35	1H	101	BCR	C23-C24-C25-C26
35	1h	101	BCR	C23-C24-C25-C30
41	1B	622	SQD	C26-C27-C28-C29
33	1B	621	LHG	O9-C7-C8-C9
29	1r	312	CLA	C4C-C3C-CAC-CBC
33	1E	101	LHG	C11-C10-C9-C8
29	1B	606	CLA	CAA-CBA-CGA-O2A
29	1B	611	CLA	CAA-CBA-CGA-O2A
29	1S	316	CLA	CAA-CBA-CGA-O2A
30	1g	601	CHL	CAA-CBA-CGA-O2A
34	00	320	DGD	O1G-C1A-C2A-C3A
30	1N	307	CHL	CAA-CBA-CGA-O1A
29	1R	310	CLA	C2A-CAA-CBA-CGA
29	1S	316	CLA	C2A-CAA-CBA-CGA
29	1r	314	CLA	C2A-CAA-CBA-CGA
33	1E	101	LHG	O9-C7-C8-C9
29	1B	606	CLA	C15-C16-C17-C18
30	1g	609	CHL	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
42	1s	320	MGE	CCB-CDB-CEB-CFB
30	03	305	CHL	CAA-CBA-CGA-O1A
33	1F	101	LHG	O8-C23-C24-C25
33	1d	402	LHG	O8-C23-C24-C25
33	1D	413	LHG	C23-C24-C25-C26
33	1K	101	LHG	C7-C8-C9-C10
34	1B	626	DGD	O1A-C1A-C2A-C3A
42	1C	524	MGE	O1B-C1B-C2B-C3B
40	1D	407	PL9	C31-C32-C33-C34
40	1D	407	PL9	C46-C47-C48-C49
40	1r	301	PL9	C16-C17-C18-C19
33	1w	104	LHG	C23-C24-C25-C26
29	1N	303	CLA	C2-C3-C5-C6
29	00	302	CLA	C13-C15-C16-C17
30	03	305	CHL	CAA-CBA-CGA-O2A
29	08	312	CLA	CAD-CBD-CGD-O1D
29	1B	608	CLA	CAD-CBD-CGD-O1D
29	1C	502	CLA	CAD-CBD-CGD-O1D
29	1G	602	CLA	CAD-CBD-CGD-O1D
29	1b	605	CLA	CAD-CBD-CGD-O1D
29	1b	606	CLA	CAD-CBD-CGD-O1D
29	1b	608	CLA	CAD-CBD-CGD-O1D
29	1c	512	CLA	CAD-CBD-CGD-O1D
29	1n	610	CLA	CAD-CBD-CGD-O1D
29	1n	611	CLA	CAD-CBD-CGD-O1D
33	1J	102	LHG	C4-C5-O7-C7
41	1B	620	SQD	O5-C5-C6-S
41	1B	622	SQD	O5-C5-C6-S
41	1B	629	SQD	O5-C5-C6-S
41	1D	411	SQD	O5-C5-C6-S
42	1k	101	MGE	C1G-C2G-O2G-C1B
29	02	613	CLA	CAA-CBA-CGA-O1A
30	1N	302	CHL	CAA-CBA-CGA-O1A
30	1n	607	CHL	C2C-C3C-CAC-CBC
33	1c	521	LHG	C18-C19-C20-C21
29	1R	314	CLA	CAA-CBA-CGA-O2A
33	00	319	LHG	O8-C23-C24-C25
33	1D	408	LHG	O8-C23-C24-C25
33	1N	317	LHG	O8-C23-C24-C25
30	02	607	CHL	C2C-C3C-CAC-CBC
30	01	306	CHL	C14-C13-C15-C16
29	1b	614	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
33	1S	319	LHG	O10-C23-C24-C25
29	1C	505	CLA	CAA-CBA-CGA-O2A
29	1R	312	CLA	CAA-CBA-CGA-O2A
33	1s	319	LHG	O7-C7-C8-C9
34	1S	320	DGD	O1G-C1A-C2A-C3A
33	1j	102	LHG	C28-C29-C30-C31
29	1b	602	CLA	C15-C16-C17-C18
41	1B	628	SQD	C7-C8-C9-C10
30	1S	309	CHL	C2C-C3C-CAC-CBC
34	1B	625	DGD	C7A-C8A-C9A-CAA
29	04	306	CLA	C2A-CAA-CBA-CGA
29	1b	611	CLA	C2A-CAA-CBA-CGA
33	1B	621	LHG	O8-C23-C24-C25
30	01	304	CHL	C5-C6-C7-C8
30	1G	609	CHL	C4C-C3C-CAC-CBC
41	1D	411	SQD	C25-C26-C27-C28
29	1B	610	CLA	CAA-CBA-CGA-O1A
29	1a	405	CLA	CAA-CBA-CGA-O1A
33	1F	101	LHG	O10-C23-C24-C25
29	1b	609	CLA	C4-C3-C5-C6
30	00	308	CHL	C4-C3-C5-C6
30	1g	609	CHL	C4-C3-C5-C6
29	02	602	CLA	CAD-CBD-CGD-O2D
29	02	608	CLA	CHA-CBD-CGD-O1D
29	02	614	CLA	CAD-CBD-CGD-O2D
29	05	302	CLA	CAD-CBD-CGD-O2D
29	05	303	CLA	CAD-CBD-CGD-O2D
29	05	309	CLA	CHA-CBD-CGD-O1D
29	07	307	CLA	CAD-CBD-CGD-O2D
29	07	310	CLA	CAD-CBD-CGD-O2D
29	08	308	CLA	CAD-CBD-CGD-O2D
29	08	311	CLA	CAD-CBD-CGD-O2D
29	1B	601	CLA	C11-C12-C13-C15
29	1B	610	CLA	C11-C10-C8-C7
29	1C	512	CLA	C3A-C2A-CAA-CBA
29	1G	602	CLA	C6-C7-C8-C10
29	1G	611	CLA	CHA-CBD-CGD-O1D
29	1N	313	CLA	CHA-CBD-CGD-O1D
29	1R	309	CLA	C3A-C2A-CAA-CBA
29	1S	306	CLA	CAD-CBD-CGD-O2D
29	1b	613	CLA	C3A-C2A-CAA-CBA
29	1c	505	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
30	05	304	CHL	CAD-CBD-CGD-O2D
30	05	313	CHL	CAD-CBD-CGD-O2D
30	07	303	CHL	CAD-CBD-CGD-O2D
30	07	311	CHL	CHA-CBD-CGD-O1D
30	09	304	CHL	CAD-CBD-CGD-O2D
30	1N	310	CHL	C6-C7-C8-C10
30	1R	303	CHL	CHA-CBD-CGD-O1D
30	1S	307	CHL	CHA-CBD-CGD-O1D
30	1s	310	CHL	CAD-CBD-CGD-O2D
29	00	318	CLA	CAA-CBA-CGA-O1A
29	1R	312	CLA	CAA-CBA-CGA-O1A
33	00	319	LHG	O10-C23-C24-C25
34	1c	519	DGD	O1B-C1B-C2B-C3B
42	1B	624	MGE	O1B-C1B-C2B-C3B
42	1k	101	MGE	O1B-C1B-C2B-C3B
45	1E	103	HEM	CAA-CBA-CGA-O2A
34	1B	627	DGD	CAA-CBA-CCA-CDA
29	1b	609	CLA	CAA-CBA-CGA-O2A
29	1r	304	CLA	CAA-CBA-CGA-O2A
30	1G	601	CHL	CAA-CBA-CGA-O2A
33	1J	102	LHG	O7-C7-C8-C9
33	1L	101	LHG	O8-C23-C24-C25
43	1C	514	LNL	C4-C5-C6-C7
35	1b	620	BCR	C21-C22-C23-C24
33	1L	101	LHG	O9-C7-C8-C9
33	1N	317	LHG	O10-C23-C24-C25
33	1R	317	LHG	O9-C7-C8-C9
30	04	301	CHL	CAA-CBA-CGA-O1A
29	00	302	CLA	CAA-CBA-CGA-O2A
29	1C	503	CLA	CAA-CBA-CGA-O2A
29	1r	314	CLA	CAA-CBA-CGA-O2A
30	1g	607	CHL	CAA-CBA-CGA-O2A
33	01	316	LHG	O7-C7-C8-C9
33	1b	625	LHG	O8-C23-C24-C25
41	1D	412	SQD	O47-C7-C8-C9
41	1w	101	SQD	O48-C23-C24-C25
29	09	302	CLA	O1D-CGD-O2D-CED
33	1v	201	LHG	C10-C11-C12-C13
29	01	312	CLA	CAA-CBA-CGA-O1A
29	1B	611	CLA	CAA-CBA-CGA-O1A
29	1C	505	CLA	CAA-CBA-CGA-O1A
30	00	305	CHL	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
30	1g	601	CHL	CAA-CBA-CGA-O1A
34	1S	320	DGD	O1A-C1A-C2A-C3A
30	00	304	CHL	CAA-CBA-CGA-O2A
30	07	311	CHL	C4C-C3C-CAC-CBC
34	1B	627	DGD	O6D-C5D-C6D-O5D
29	1b	602	CLA	CAA-CBA-CGA-O2A
33	09	316	LHG	O8-C23-C24-C25
33	1D	410	LHG	O8-C23-C24-C25
33	1I	101	LHG	O7-C7-C8-C9
34	1c	520	DGD	O1G-C1A-C2A-C3A
41	1s	301	SQD	O48-C23-C24-C25
33	1D	409	LHG	C11-C12-C13-C14
29	1C	503	CLA	C5-C6-C7-C8
29	1c	514	CLA	CAA-CBA-CGA-O1A
34	1c	519	DGD	O1A-C1A-C2A-C3A
41	1w	101	SQD	O10-C23-C24-C25
29	1C	510	CLA	C2A-CAA-CBA-CGA
30	04	301	CHL	CAA-CBA-CGA-O2A
30	06	606	CHL	CAA-CBA-CGA-O2A
29	1A	404	CLA	C4C-C3C-CAC-CBC
30	1s	310	CHL	C2C-C3C-CAC-CBC
33	1c	521	LHG	C13-C14-C15-C16
41	1D	411	SQD	C10-C11-C12-C13
29	1R	314	CLA	CAA-CBA-CGA-O1A
29	1g	613	CLA	CAA-CBA-CGA-O1A
29	1n	613	CLA	CAA-CBA-CGA-O1A
33	01	316	LHG	O10-C23-C24-C25
29	1s	312	CLA	C4-C3-C5-C6
42	1C	524	MGE	C7A-C8A-C9A-CAA
29	01	310	CLA	CAA-CBA-CGA-O2A
33	1b	628	LHG	O7-C7-C8-C9
34	1c	518	DGD	O2G-C1B-C2B-C3B
42	1s	320	MGE	O1G-C1A-C2A-C3A

There are no ring outliers.

413 monomers are involved in 1160 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	02	610	CLA	1	0
29	1N	305	CLA	1	0
47	1X	101	3PH	1	0
46	1G	619	XAT	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	1c	509	CLA	9	0
46	1G	617	XAT	7	0
40	1R	301	PL9	7	0
29	1N	311	CLA	1	0
34	1b	627	DGD	4	0
29	1c	508	CLA	10	0
34	1C	517	DGD	5	0
29	1b	609	CLA	7	0
33	1D	409	LHG	2	0
29	1N	314	CLA	2	0
29	1c	512	CLA	9	0
29	03	310	CLA	1	0
29	1r	303	CLA	1	0
29	1N	315	CLA	1	0
29	1r	302	CLA	4	0
29	01	311	CLA	1	0
29	1C	509	CLA	2	0
29	01	308	CLA	9	0
29	1d	407	CLA	1	0
29	1s	312	CLA	4	0
30	1g	601	CHL	3	0
29	1B	607	CLA	7	0
29	1b	604	CLA	2	0
33	1W	101	LHG	1	0
41	1d	411	SQD	2	0
29	1B	605	CLA	4	0
29	1B	611	CLA	8	0
38	1A	406	PHO	1	0
29	1b	605	CLA	1	0
29	1b	613	CLA	3	0
29	08	307	CLA	1	0
33	1R	317	LHG	1	0
29	1B	614	CLA	3	0
29	08	311	CLA	3	0
33	1D	408	LHG	1	0
33	1N	317	LHG	3	0
30	05	307	CHL	2	0
29	1b	608	CLA	5	0
29	1b	610	CLA	2	0
29	1a	406	CLA	1	0
30	1n	608	CHL	1	0
29	1d	403	CLA	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
30	00	308	CHL	7	0
29	1C	507	CLA	5	0
33	1I	103	LHG	3	0
29	1S	316	CLA	1	0
30	1n	606	CHL	4	0
29	1C	503	CLA	1	0
29	1c	514	CLA	2	0
33	00	317	LHG	4	0
31	00	313	LUT	7	0
29	00	309	CLA	3	0
32	09	315	VIV	1	0
33	1F	101	LHG	2	0
41	1B	620	SQD	8	0
40	1A	410	PL9	6	0
29	01	309	CLA	1	0
33	1S	303	LHG	4	0
29	06	602	CLA	4	0
29	1s	316	CLA	6	0
43	1c	501	LNL	4	0
34	1B	626	DGD	4	0
35	1B	618	BCR	2	0
33	1W	102	LHG	3	0
30	07	311	CHL	3	0
33	1b	626	LHG	4	0
29	02	602	CLA	1	0
35	1i	101	BCR	7	0
29	01	307	CLA	1	0
29	1G	612	CLA	4	0
29	03	309	CLA	1	0
29	09	301	CLA	7	0
33	1D	410	LHG	2	0
30	1r	305	CHL	2	0
29	1A	404	CLA	3	0
35	04	313	BCR	6	0
41	1C	521	SQD	5	0
29	1b	617	CLA	1	0
30	1S	304	CHL	1	0
46	1r	316	XAT	3	0
29	00	301	CLA	4	0
33	09	316	LHG	3	0
33	00	321	LHG	4	0
41	1S	302	SQD	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	1B	608	CLA	9	0
42	1s	320	MGE	2	0
29	1S	311	CLA	2	0
33	1w	103	LHG	4	0
29	08	310	CLA	2	0
29	1R	307	CLA	3	0
33	1N	318	LHG	9	0
30	00	304	CHL	1	0
33	1t	101	LHG	3	0
29	01	301	CLA	6	0
38	1A	405	PHO	6	0
29	02	613	CLA	1	0
30	09	305	CHL	3	0
41	1D	411	SQD	3	0
40	1r	301	PL9	4	0
29	1B	612	CLA	5	0
45	1f	101	HEM	6	0
29	1S	310	CLA	4	0
29	03	308	CLA	2	0
29	1B	616	CLA	4	0
33	1N	301	LHG	2	0
30	1n	607	CHL	7	0
29	1C	513	CLA	2	0
31	1N	316	LUT	3	0
41	1D	412	SQD	4	0
30	1s	308	CHL	1	0
33	1c	521	LHG	5	0
29	1c	505	CLA	3	0
30	1g	609	CHL	5	0
35	1Z	102	BCR	5	0
41	1l	101	SQD	3	0
31	1s	317	LUT	8	0
30	03	303	CHL	1	0
29	01	312	CLA	2	0
30	03	302	CHL	1	0
30	09	307	CHL	1	0
33	1a	401	LHG	2	0
29	03	301	CLA	3	0
29	04	310	CLA	2	0
29	01	310	CLA	3	0
29	1n	602	CLA	6	0
38	1d	404	PHO	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
35	1A	409	BCR	4	0
31	1S	318	LUT	9	0
29	03	312	CLA	4	0
31	01	315	LUT	8	0
29	05	310	CLA	1	0
29	1N	313	CLA	1	0
41	1d	405	SQD	4	0
35	1b	619	BCR	6	0
29	1R	309	CLA	2	0
35	1B	630	BCR	7	0
30	04	303	CHL	3	0
33	1c	522	LHG	3	0
42	1C	524	MGE	4	0
29	1R	310	CLA	1	0
30	00	305	CHL	7	0
29	1c	506	CLA	2	0
29	1n	612	CLA	2	0
29	1G	602	CLA	7	0
35	1D	406	BCR	4	0
42	1B	624	MGE	2	0
33	1v	201	LHG	3	0
29	1g	604	CLA	1	0
46	1R	316	XAT	8	0
30	1s	304	CHL	3	0
30	1n	609	CHL	4	0
40	1a	412	PL9	21	0
30	07	304	CHL	1	0
29	06	609	CLA	1	0
29	1C	501	CLA	2	0
29	05	311	CLA	1	0
31	09	314	LUT	5	0
34	1B	625	DGD	5	0
29	1c	504	CLA	1	0
30	03	305	CHL	1	0
29	08	309	CLA	1	0
34	1B	627	DGD	2	0
29	1D	404	CLA	7	0
30	1G	606	CHL	1	0
33	1b	623	LHG	1	0
35	1B	617	BCR	6	0
29	1S	305	CLA	2	0
29	1s	306	CLA	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	1L	101	LHG	2	0
33	1C	523	LHG	2	0
30	05	304	CHL	5	0
30	01	304	CHL	3	0
41	1B	629	SQD	4	0
29	1a	405	CLA	4	0
30	1N	310	CHL	6	0
30	1g	607	CHL	3	0
29	1g	603	CLA	1	0
29	1r	311	CLA	1	0
29	1b	603	CLA	4	0
29	04	306	CLA	1	0
30	1S	308	CHL	3	0
29	1C	511	CLA	1	0
30	1R	313	CHL	1	0
33	1b	625	LHG	4	0
30	02	604	CHL	1	0
31	1s	318	LUT	10	0
31	01	314	LUT	2	0
29	00	310	CLA	2	0
30	03	311	CHL	1	0
29	04	309	CLA	1	0
29	09	302	CLA	4	0
33	1s	319	LHG	3	0
30	08	304	CHL	1	0
29	1c	510	CLA	5	0
30	01	306	CHL	8	0
29	1B	604	CLA	2	0
35	1J	101	BCR	4	0
29	1G	614	CLA	1	0
29	1c	513	CLA	2	0
29	06	611	CLA	1	0
35	1h	101	BCR	3	0
30	1G	601	CHL	8	0
31	1G	615	LUT	4	0
33	03	314	LHG	2	0
29	09	312	CLA	1	0
30	04	302	CHL	2	0
29	1n	610	CLA	4	0
29	1n	611	CLA	3	0
29	1B	613	CLA	1	0
29	1G	610	CLA	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	1n	617	LHG	3	0
29	1S	315	CLA	3	0
33	1b	624	LHG	3	0
46	1g	619	XAT	6	0
34	1c	520	DGD	3	0
31	1n	615	LUT	4	0
34	00	320	DGD	7	0
29	1C	502	CLA	2	0
29	1b	612	CLA	8	0
33	1V	201	LHG	2	0
34	1A	414	DGD	6	0
41	1c	517	SQD	8	0
30	05	305	CHL	4	0
30	02	603	CHL	1	0
30	01	305	CHL	5	0
41	1L	102	SQD	5	0
41	1a	411	SQD	1	0
33	1d	402	LHG	2	0
33	1e	102	LHG	3	0
29	1B	603	CLA	4	0
29	1b	611	CLA	2	0
35	1Z	101	BCR	4	0
29	1C	505	CLA	4	0
29	1b	615	CLA	2	0
31	1G	616	LUT	8	0
33	1C	525	LHG	3	0
33	1C	527	LHG	3	0
41	1m	101	SQD	6	0
41	1a	410	SQD	6	0
29	1S	306	CLA	1	0
30	1S	309	CHL	3	0
30	06	603	CHL	1	0
35	1c	516	BCR	6	0
29	00	311	CLA	1	0
30	1R	304	CHL	3	0
30	1G	605	CHL	1	0
35	1b	620	BCR	5	0
29	1R	311	CLA	1	0
33	1j	102	LHG	2	0
30	1S	307	CHL	3	0
30	01	303	CHL	3	0
29	00	318	CLA	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	06	607	CLA	2	0
29	07	310	CLA	1	0
35	1b	601	BCR	4	0
32	00	315	VIV	3	0
33	00	319	LHG	4	0
29	1g	610	CLA	3	0
30	1n	601	CHL	7	0
29	1s	305	CLA	2	0
33	1C	520	LHG	4	0
29	1r	304	CLA	1	0
31	1S	317	LUT	8	0
29	1D	401	CLA	7	0
30	1r	306	CHL	2	0
30	1g	606	CHL	1	0
33	1w	104	LHG	6	0
29	1n	614	CLA	2	0
33	1G	618	LHG	4	0
41	1b	622	SQD	4	0
29	1s	315	CLA	1	0
40	1e	101	PL9	9	0
30	03	304	CHL	1	0
29	05	309	CLA	1	0
29	1b	616	CLA	3	0
29	02	614	CLA	2	0
30	1G	609	CHL	3	0
29	1s	313	CLA	2	0
34	1c	519	DGD	5	0
29	1b	606	CLA	3	0
33	1d	401	LHG	2	0
33	1B	621	LHG	2	0
29	08	312	CLA	1	0
29	1C	512	CLA	3	0
30	04	304	CHL	2	0
29	1r	312	CLA	3	0
30	1s	309	CHL	2	0
35	1k	102	BCR	4	0
29	1S	314	CLA	1	0
31	03	313	LUT	7	0
42	1B	623	MGE	3	0
33	1s	303	LHG	2	0
29	1c	515	CLA	1	0
30	02	605	CHL	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	1N	303	CLA	1	0
29	04	314	CLA	1	0
41	1A	412	SQD	3	0
29	1N	304	CLA	4	0
33	1s	302	LHG	2	0
29	02	608	CLA	1	0
31	00	314	LUT	6	0
30	1N	306	CHL	5	0
41	1B	622	SQD	3	0
29	1B	610	CLA	6	0
30	1g	605	CHL	1	0
41	1A	411	SQD	5	0
29	1B	609	CLA	8	0
29	1d	406	CLA	8	0
40	1D	407	PL9	6	0
29	1c	503	CLA	4	0
30	04	305	CHL	1	0
29	09	309	CLA	3	0
29	1n	613	CLA	4	0
33	1I	101	LHG	2	0
41	1b	621	SQD	9	0
35	1j	101	BCR	5	0
33	1P	201	LHG	7	0
35	1I	102	BCR	6	0
29	05	301	CLA	3	0
29	1r	308	CLA	2	0
29	1R	302	CLA	6	0
29	00	302	CLA	8	0
33	1n	616	LHG	2	0
33	09	318	LHG	6	0
34	1c	518	DGD	1	0
31	1R	315	LUT	5	0
29	1n	603	CLA	4	0
41	1A	413	SQD	2	0
30	09	306	CHL	2	0
29	07	308	CLA	1	0
29	1G	613	CLA	1	0
31	09	313	LUT	11	0
41	1s	301	SQD	4	0
35	1B	619	BCR	7	0
35	1a	409	BCR	5	0
30	00	307	CHL	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
34	1C	518	DGD	1	0
38	1a	407	PHO	1	0
29	1b	614	CLA	5	0
42	1k	101	MGE	5	0
29	1c	511	CLA	3	0
29	1D	405	CLA	2	0
29	1R	312	CLA	1	0
29	1r	314	CLA	1	0
33	1r	317	LHG	1	0
29	05	312	CLA	1	0
29	1C	504	CLA	2	0
29	1a	408	CLA	1	0
29	02	609	CLA	1	0
40	1d	410	PL9	7	0
33	1K	101	LHG	1	0
29	03	306	CLA	1	0
33	00	316	LHG	1	0
33	1C	522	LHG	1	0
46	1g	617	XAT	2	0
33	1J	102	LHG	5	0
35	1H	101	BCR	2	0
29	1C	508	CLA	8	0
41	1w	101	SQD	3	0
29	1B	606	CLA	5	0
30	1N	308	CHL	6	0
33	01	316	LHG	4	0
41	1B	628	SQD	2	0
29	1C	506	CLA	2	0
30	1r	313	CHL	1	0
34	1C	516	DGD	10	0
30	1R	303	CHL	1	0
33	1S	319	LHG	4	0
43	1C	514	LNL	1	0
29	1g	602	CLA	11	0
29	1b	602	CLA	5	0
30	1s	310	CHL	1	0
33	1R	318	LHG	3	0
30	1G	607	CHL	1	0
29	1R	308	CLA	2	0
44	1D	403	BCT	1	0
29	1c	507	CLA	2	0
31	1r	315	LUT	6	0

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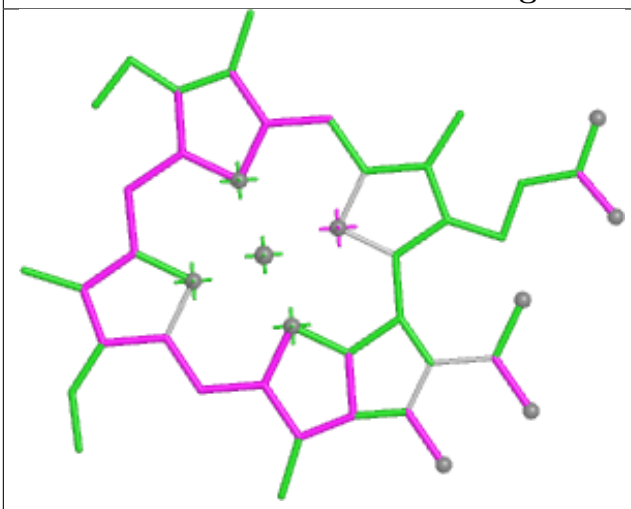
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
30	05	315	CHL	1	0
29	1C	510	CLA	5	0
45	1E	103	HEM	4	0
31	07	313	LUT	6	0
30	1N	302	CHL	6	0
40	1E	102	PL9	28	0
29	1B	602	CLA	2	0
30	00	306	CHL	8	0
31	05	314	LUT	4	0
29	1g	613	CLA	1	0
30	1n	605	CHL	4	0
29	09	317	CLA	14	0
33	1a	413	LHG	11	0
33	1S	301	LHG	1	0
31	1g	616	LUT	6	0
29	09	310	CLA	1	0
29	1B	601	CLA	5	0
29	1R	306	CLA	3	0
29	07	307	CLA	2	0
35	1d	409	BCR	1	0
30	1N	307	CHL	5	0
35	1b	618	BCR	9	0
30	01	302	CHL	1	0
29	1r	309	CLA	3	0
31	1g	615	LUT	3	0
29	1D	402	CLA	1	0
33	1b	628	LHG	7	0
30	02	606	CHL	3	0
29	1R	314	CLA	2	0
30	09	308	CHL	7	0
34	1S	320	DGD	3	0

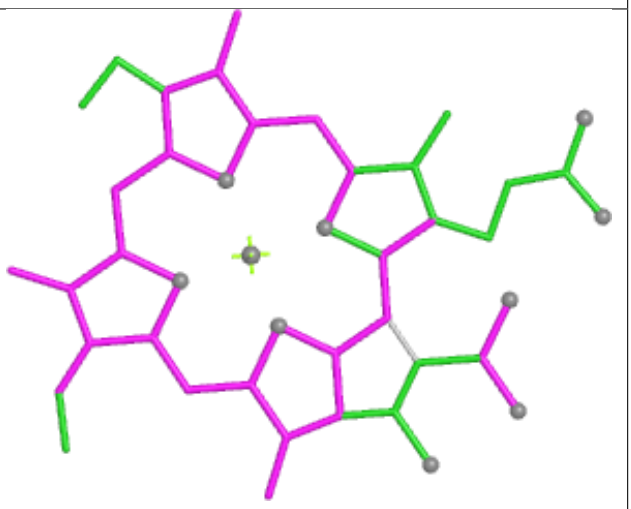
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

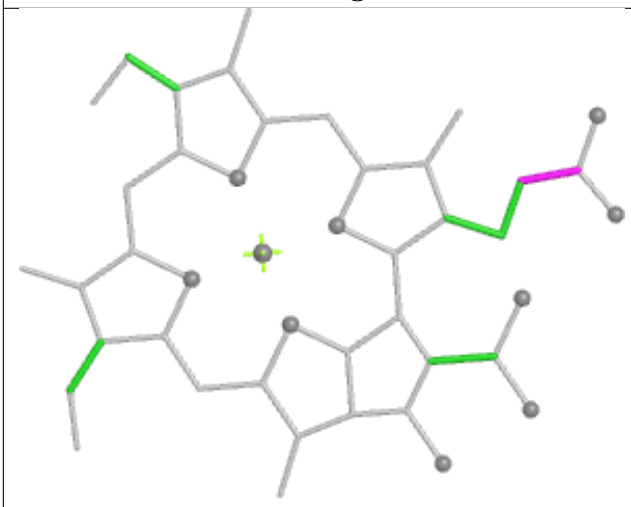
Ligand CLA 02 610



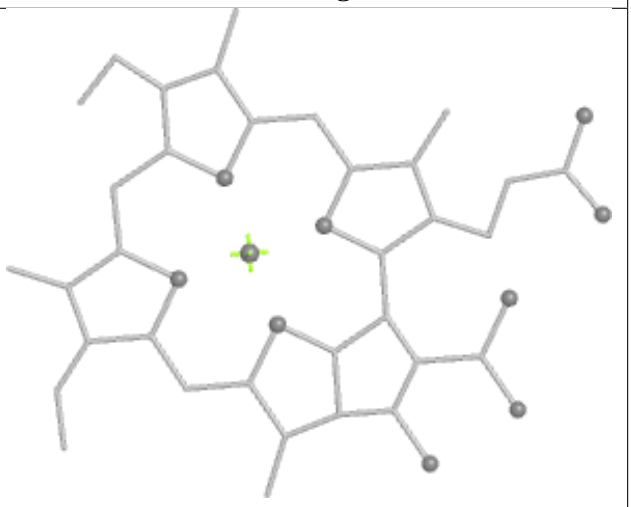
Bond lengths



Bond angles

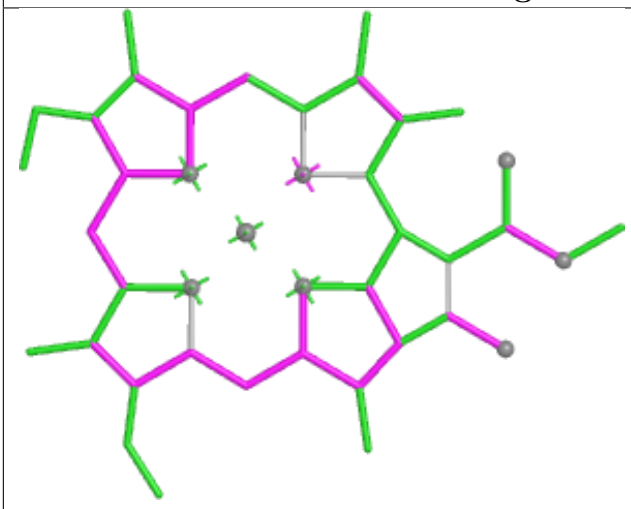


Torsions

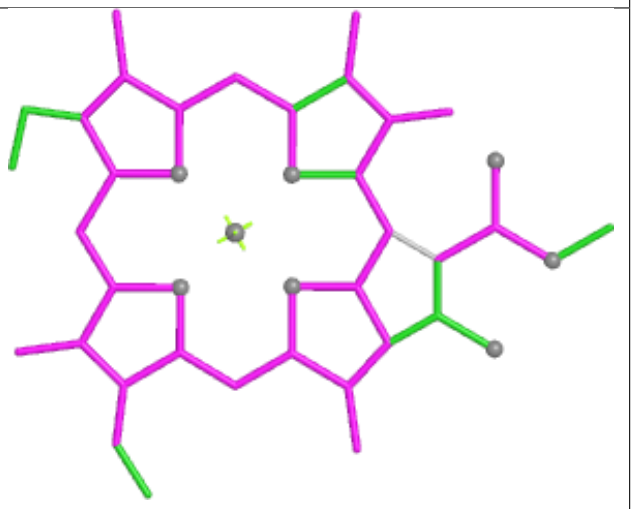


Rings

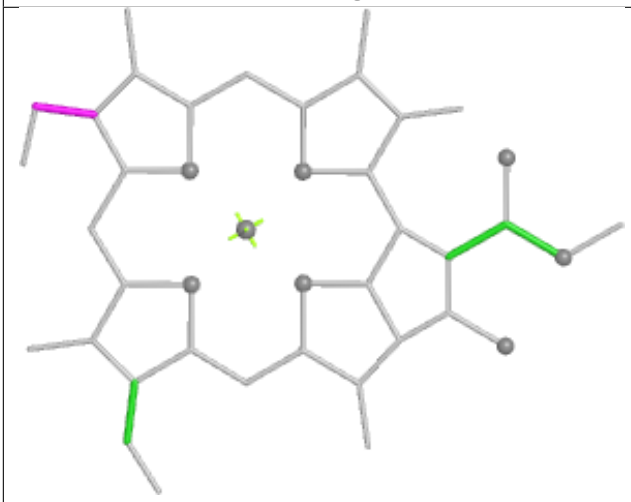
Ligand CLA 1N 305



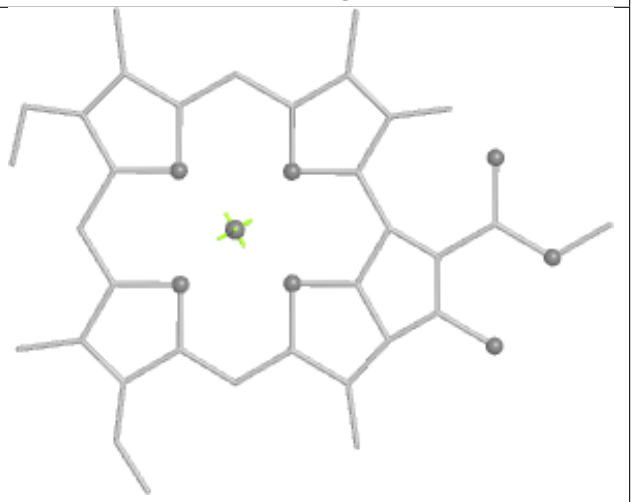
Bond lengths



Bond angles

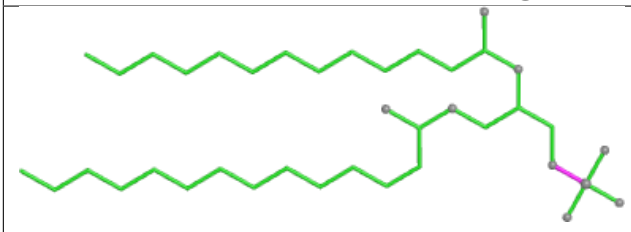


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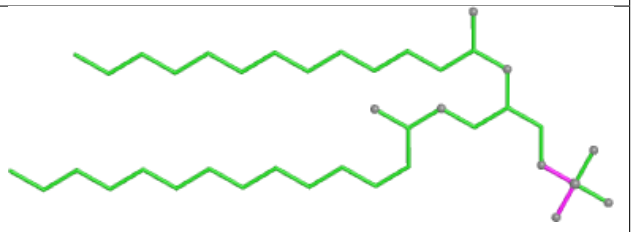


Rings

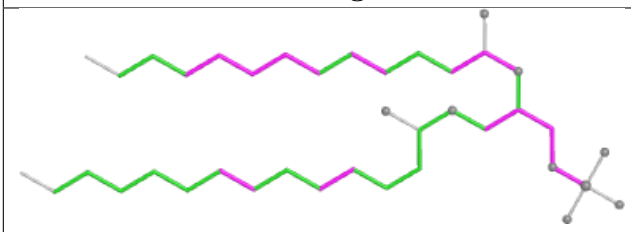
Ligand 3PH 1X 101



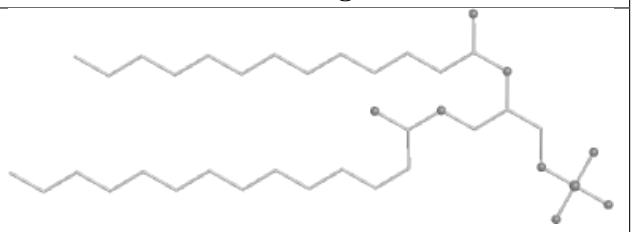
Bond lengths



Bond angles

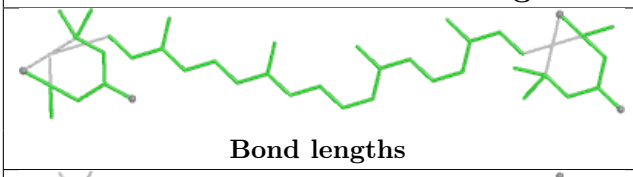


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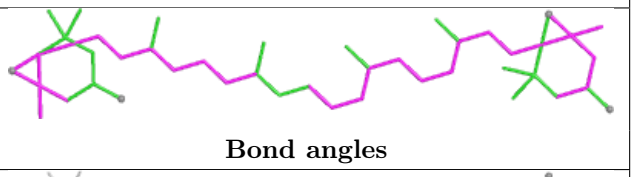


Rings

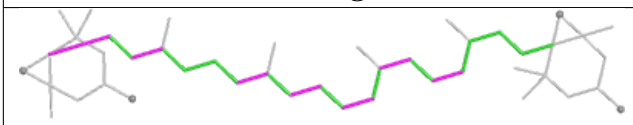
Ligand XAT 1G 619



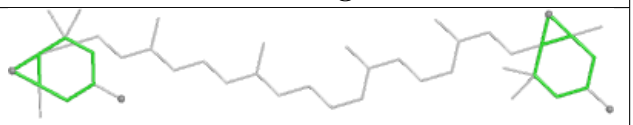
Bond lengths



Bond angles

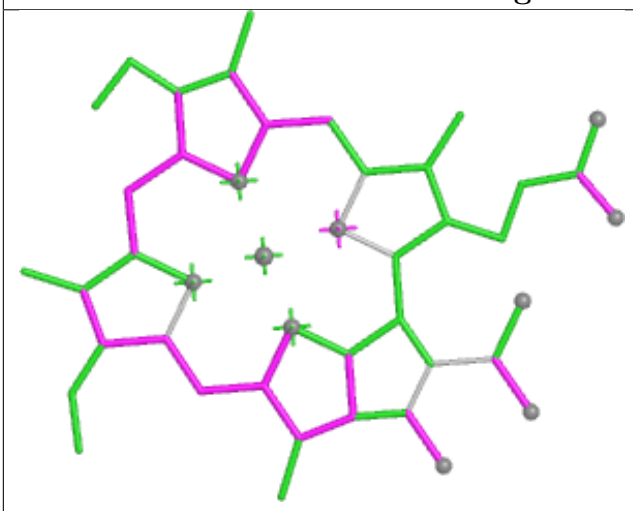


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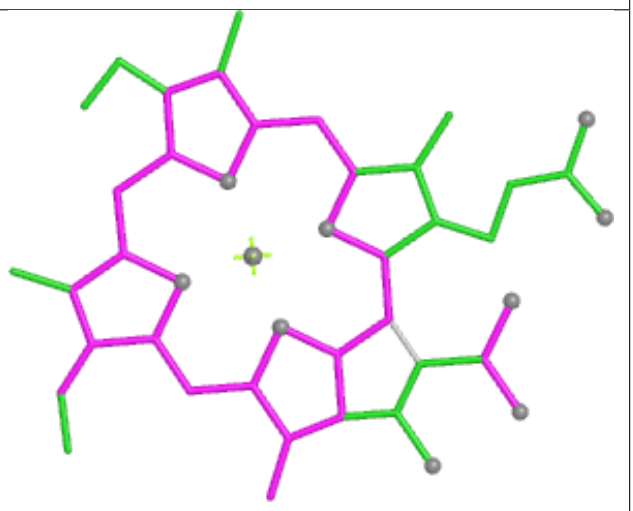


Rings

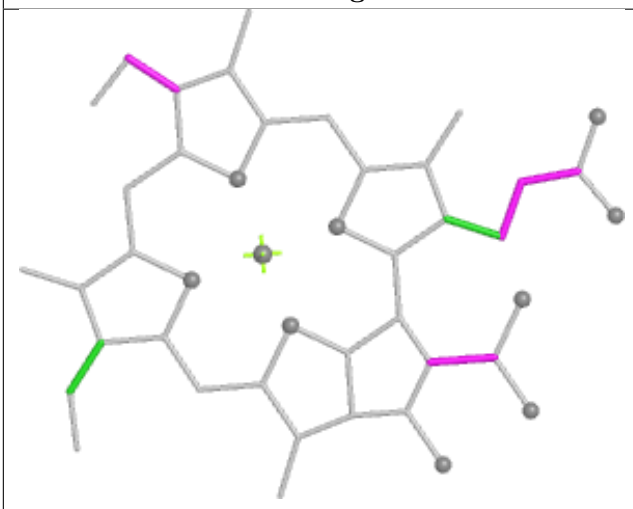
Ligand CLA 1G 611



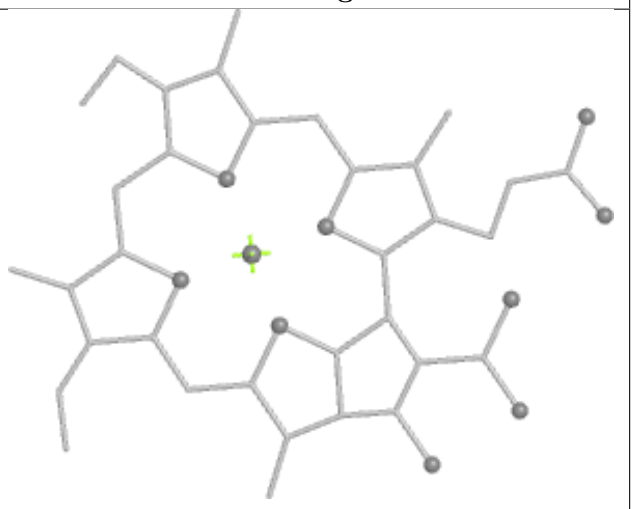
Bond lengths



Bond angles

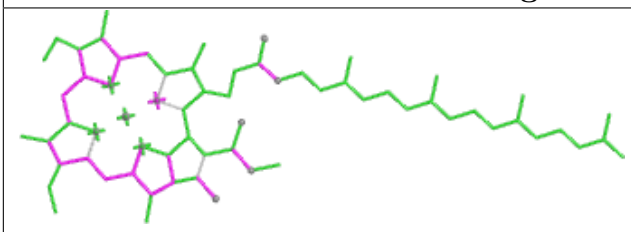


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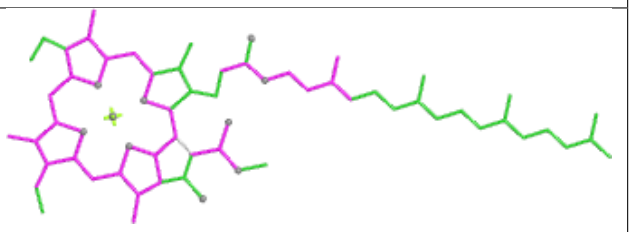


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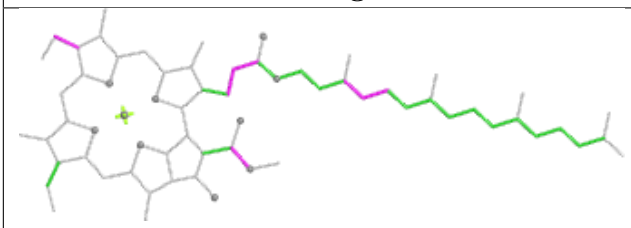
Ligand CLA 1c 509



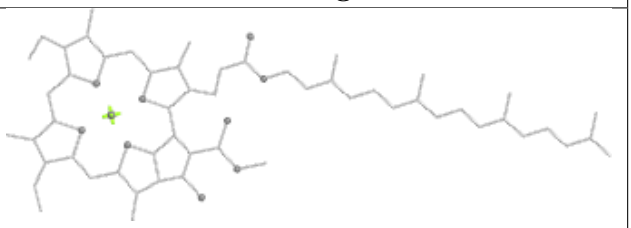
Bond lengths



Bond angles



Torsions

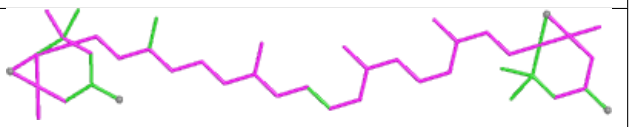


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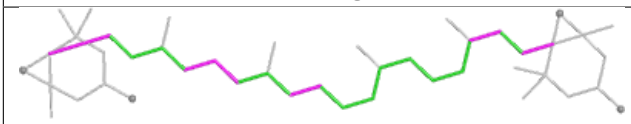
Ligand XAT 1G 617



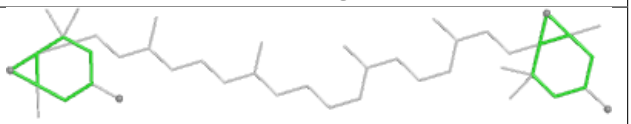
Bond lengths



Bond angles



Torsions



Rings

Ligand PL9 1R 301



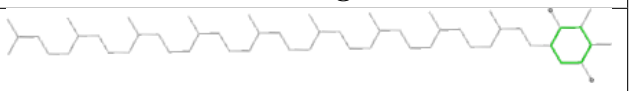
Bond lengths



Bond angles

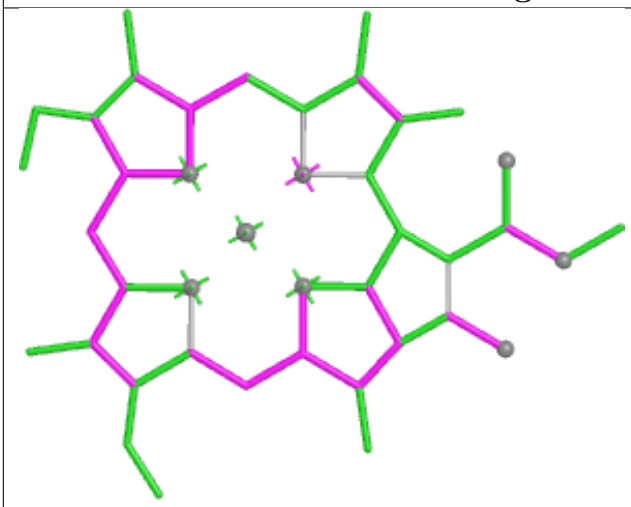


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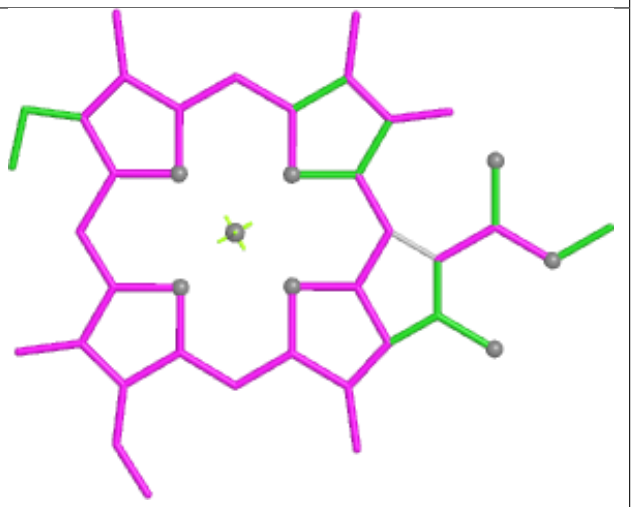


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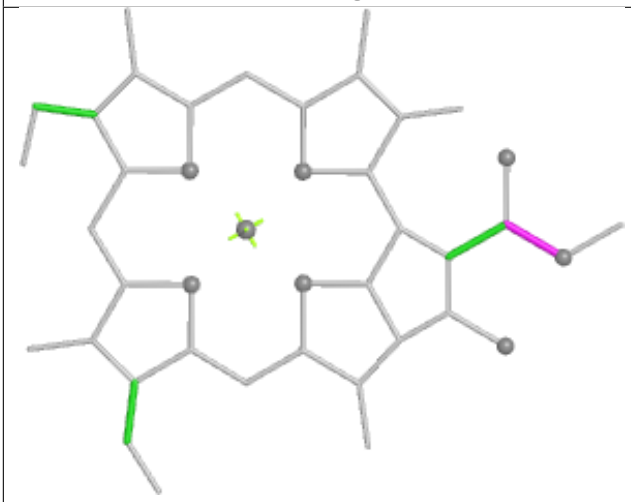
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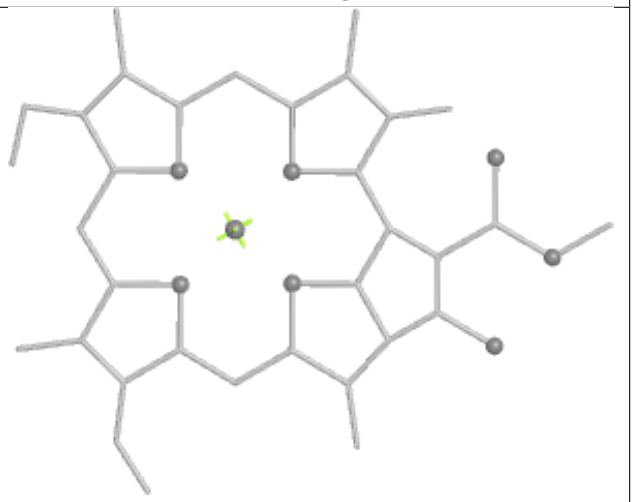
Bond lengths



Bond angles

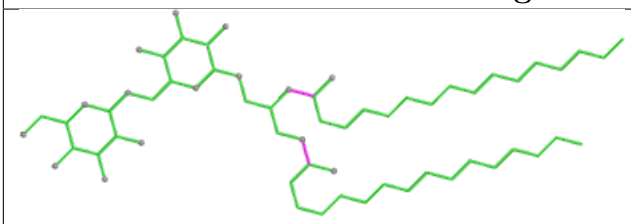


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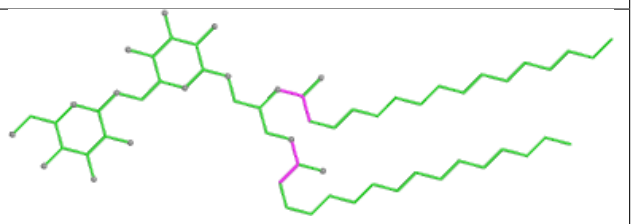


Rings

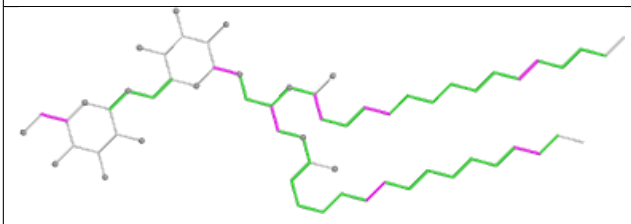
Ligand DGD 1b 627



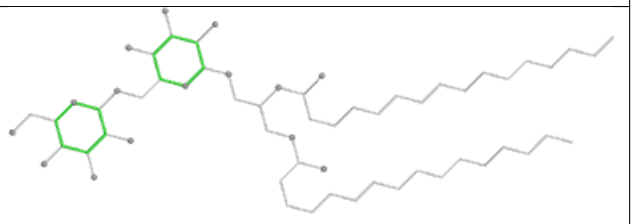
Bond lengths



Bond angles

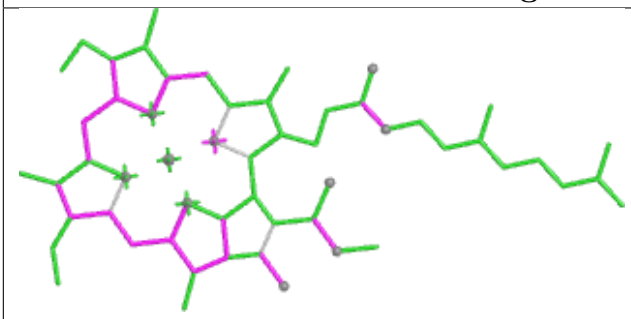


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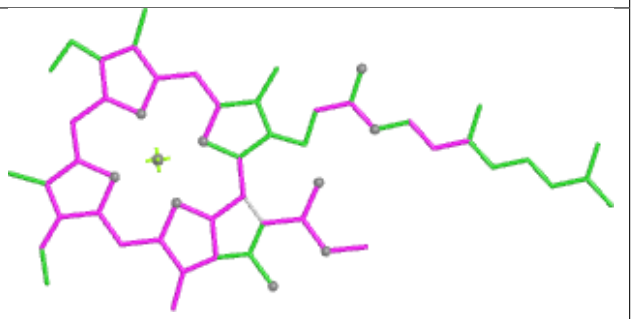


Rings

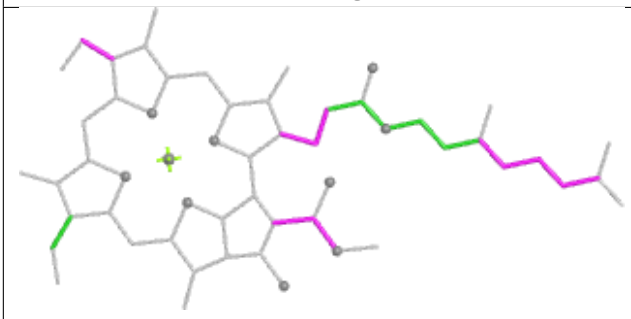
Ligand CLA 1c 508



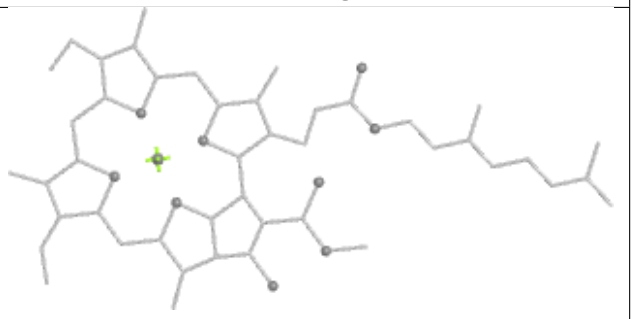
Bond lengths



Bond angles

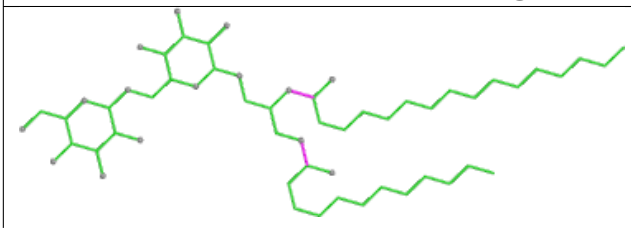


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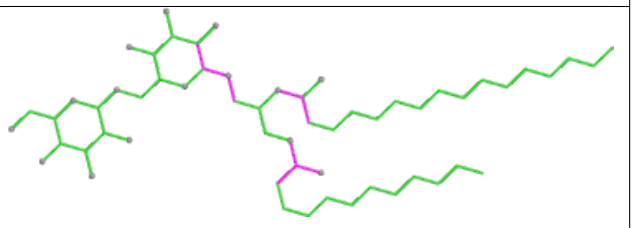


Rings

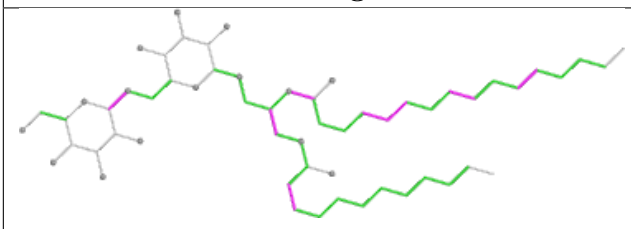
Ligand DGD 1C 517



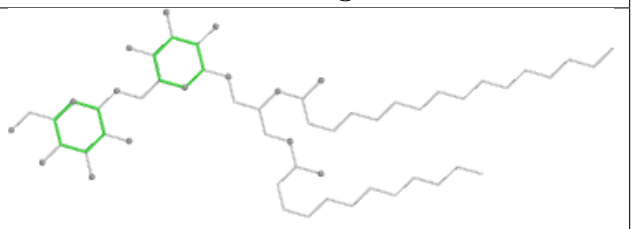
Bond lengths



Bond angles

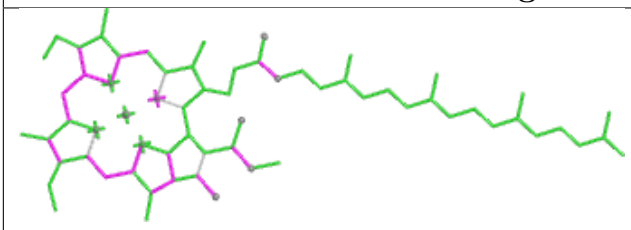


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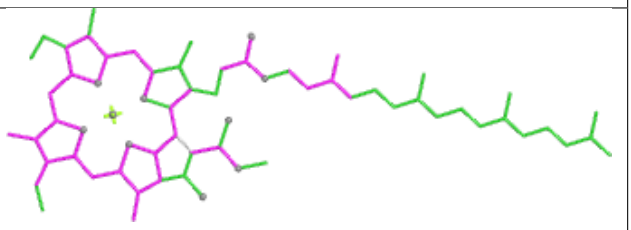


Rings

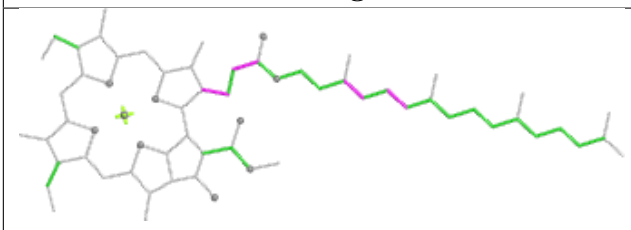
Ligand CLA 1b 609



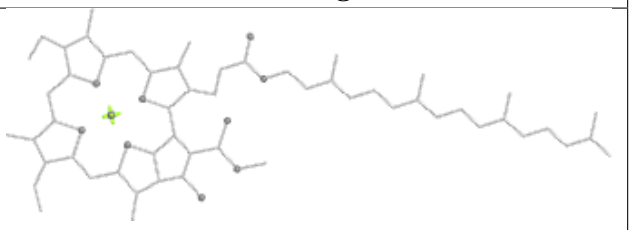
Bond lengths



Bond angles

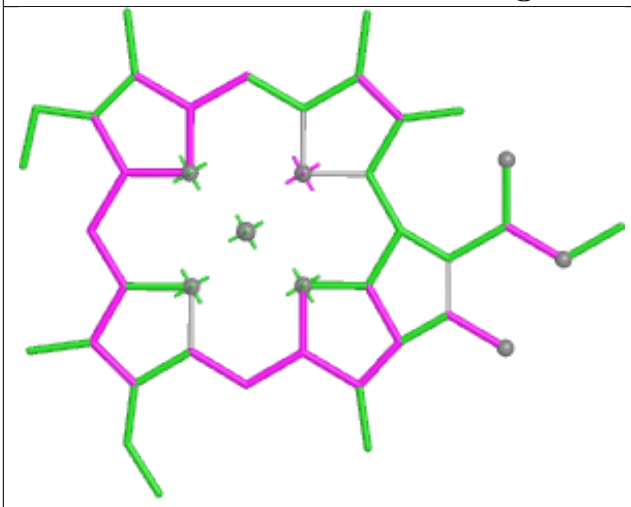


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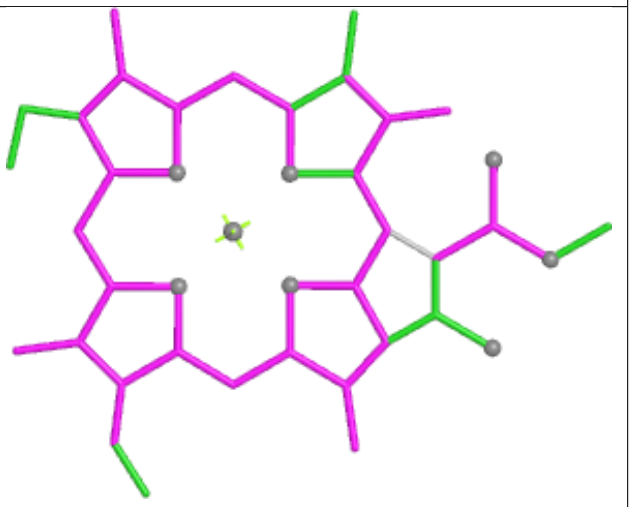


Rings

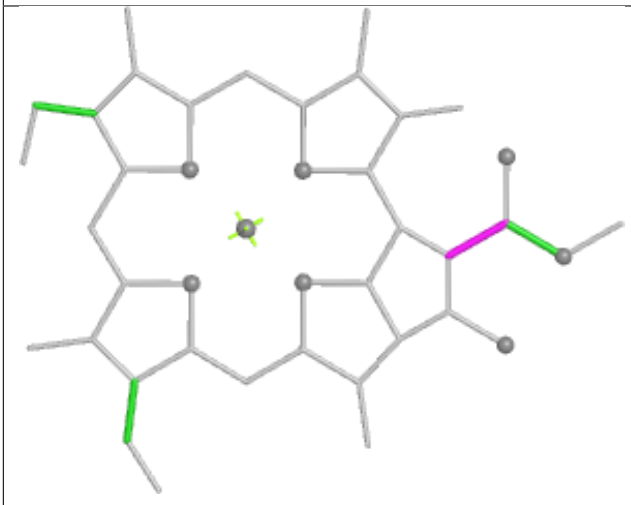
Ligand CLA 1B 615



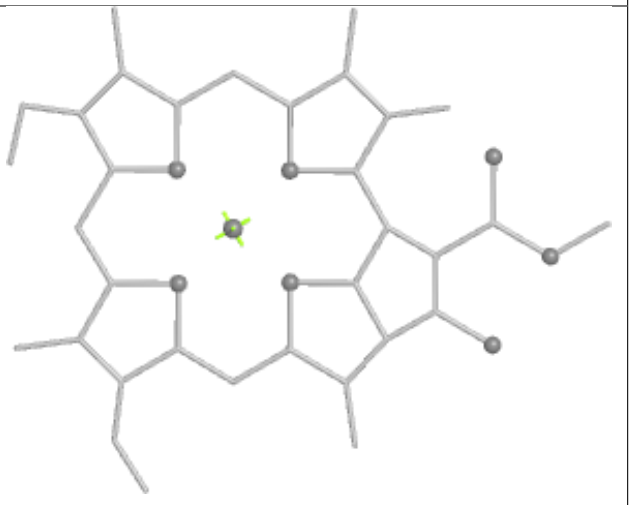
Bond lengths



Bond angles

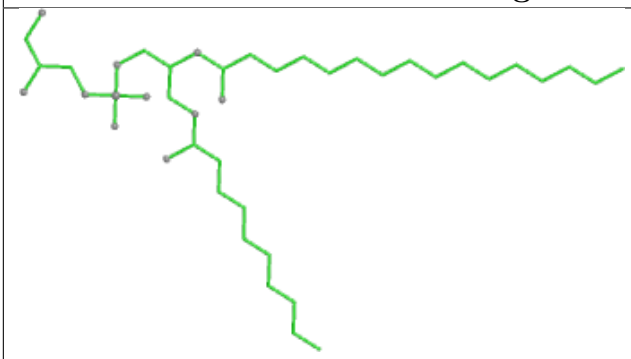


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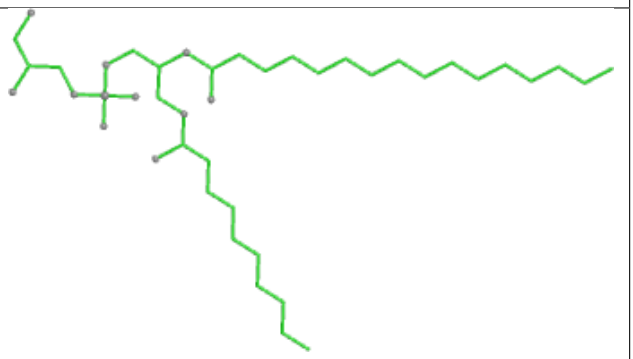


Rings

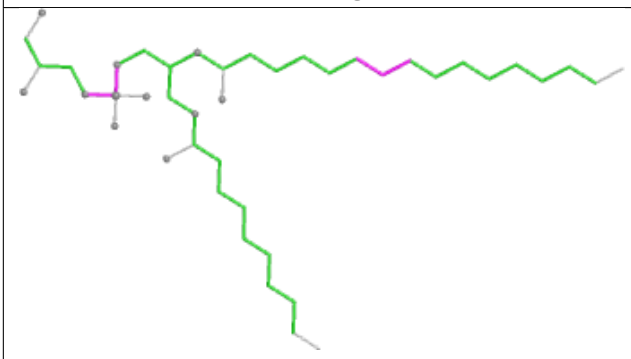
Ligand LHG 1D 409



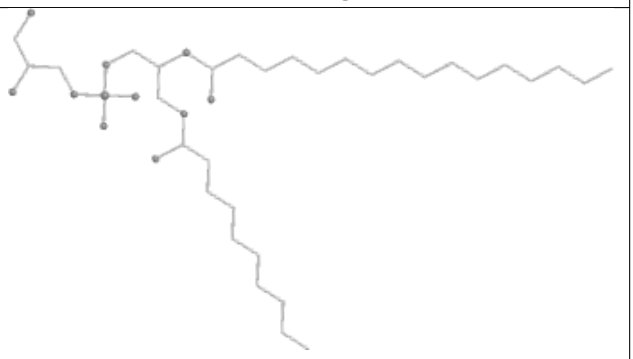
Bond lengths



Bond angles

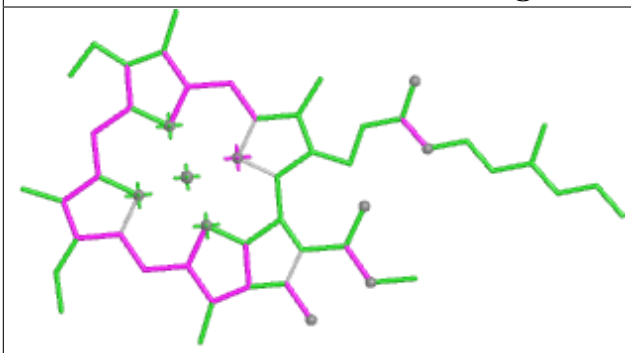


Torsions

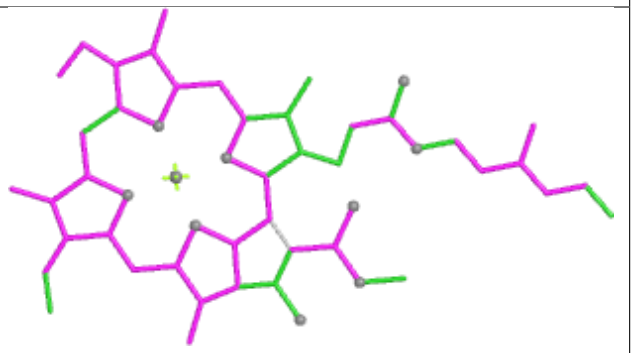


Rings

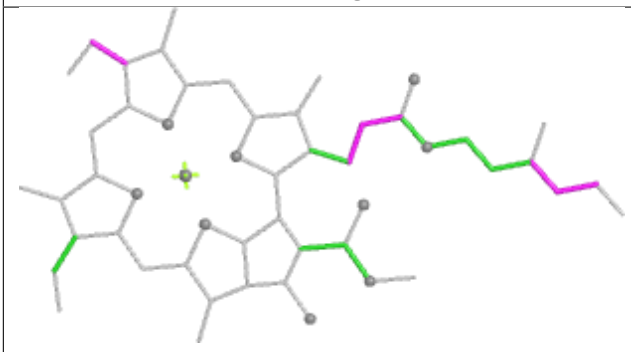
Ligand CLA 1N 314



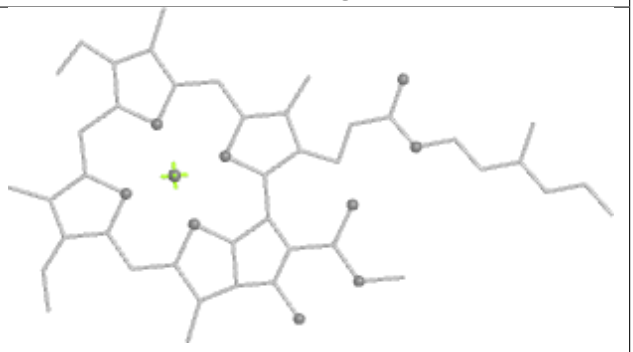
Bond lengths



Bond angles

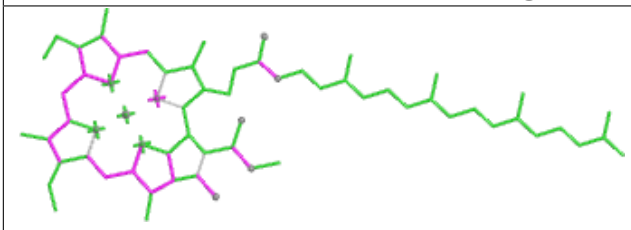


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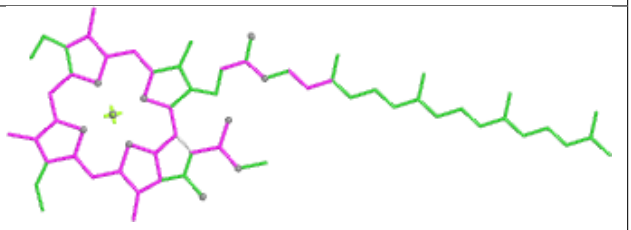


Rings

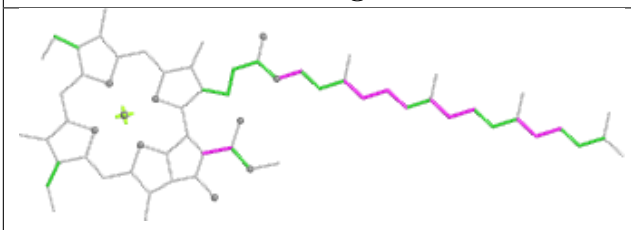
Ligand CLA 1c 512



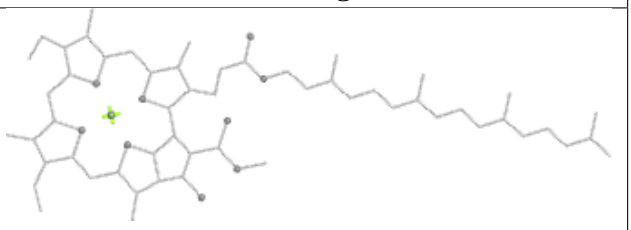
Bond lengths



Bond angles

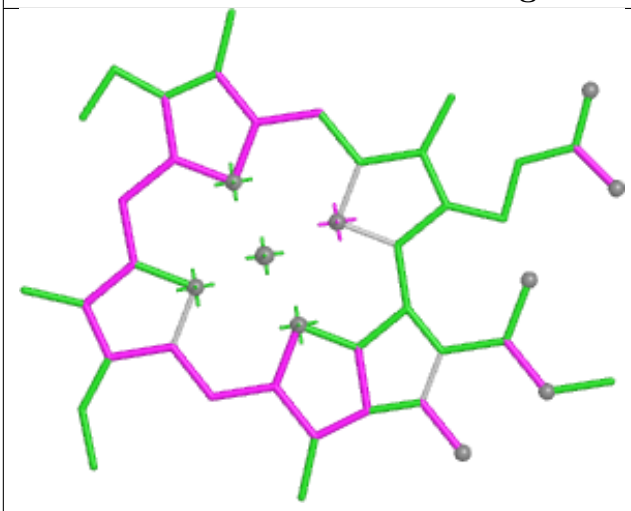


Torsions

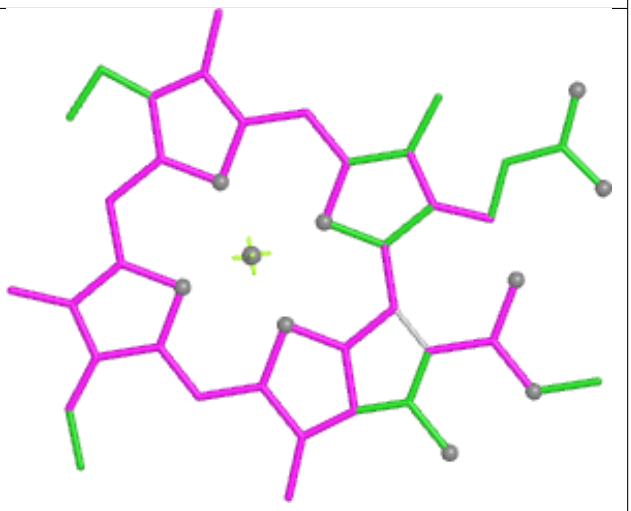


Rings

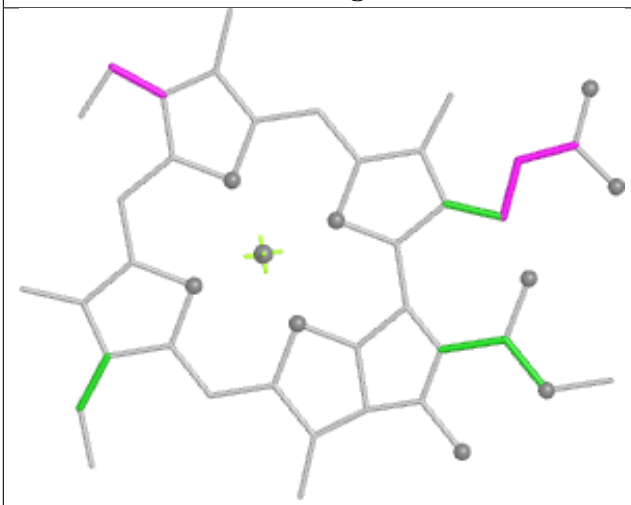
Ligand CLA 03 310



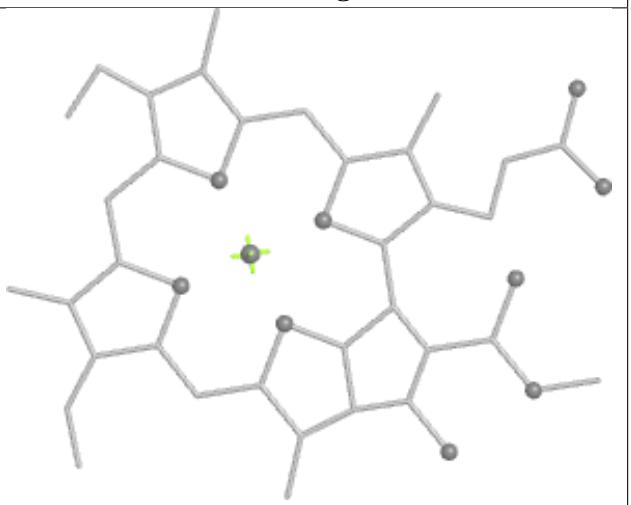
Bond lengths



Bond angles

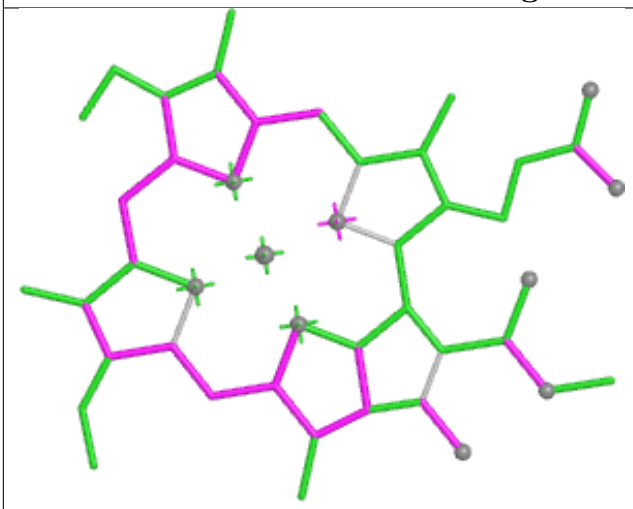


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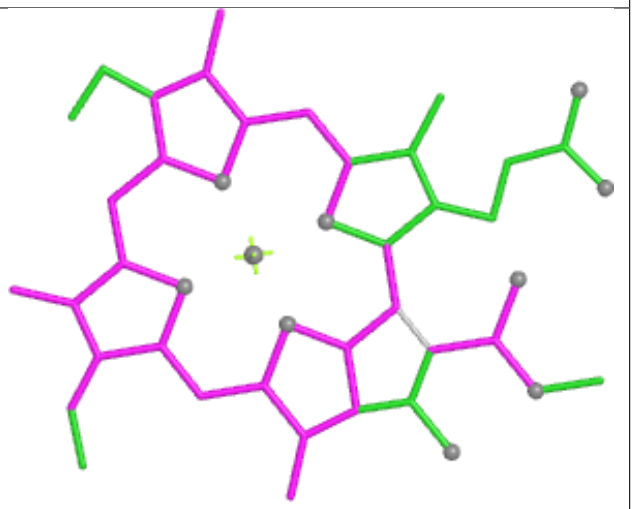


Rings

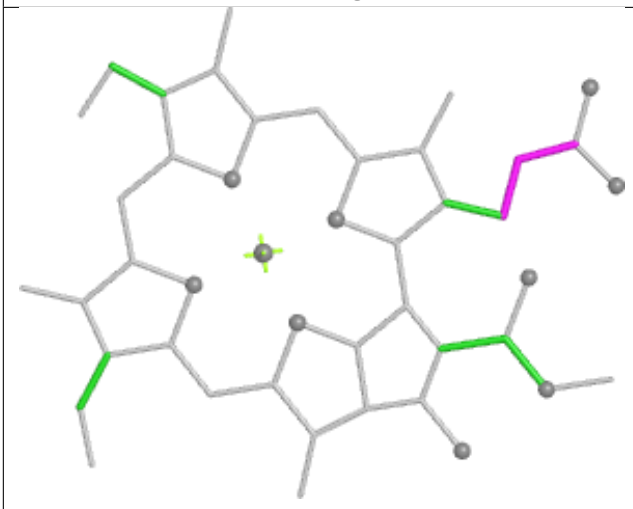
Ligand CLA 1r 303



Bond lengths



Bond angles

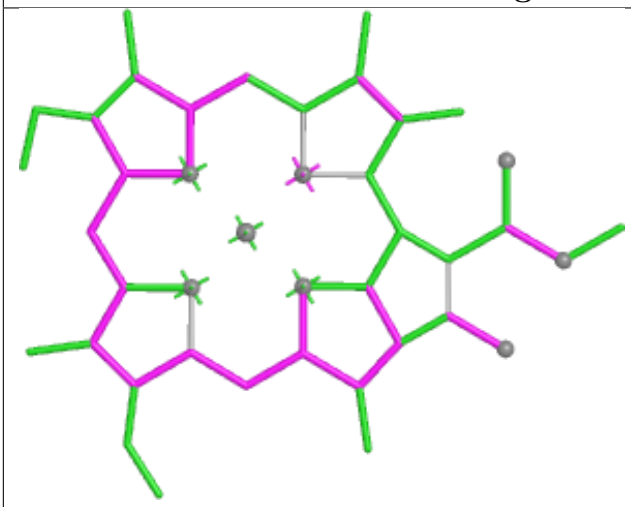


Torsions

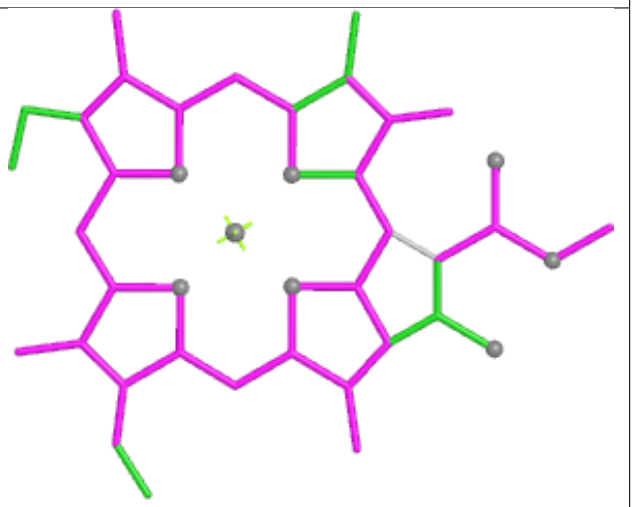


Rings

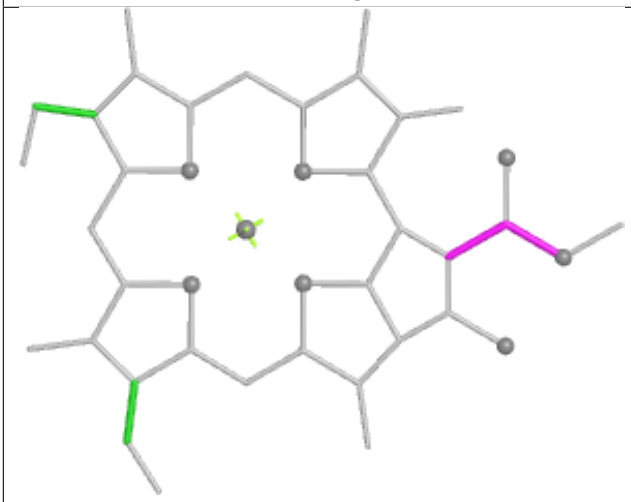
Ligand CLA 1N 315



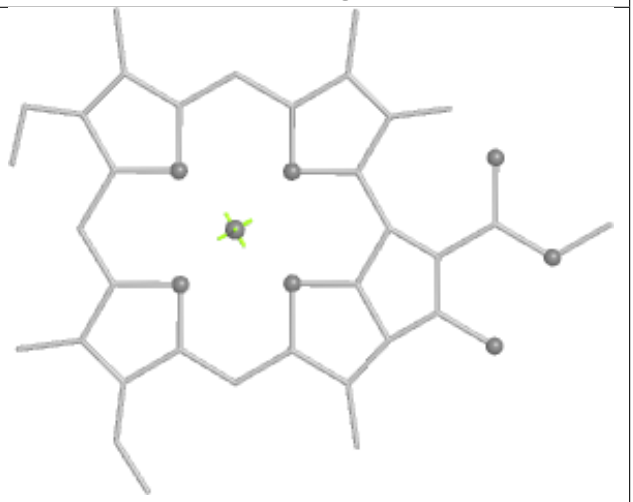
Bond lengths



Bond angles

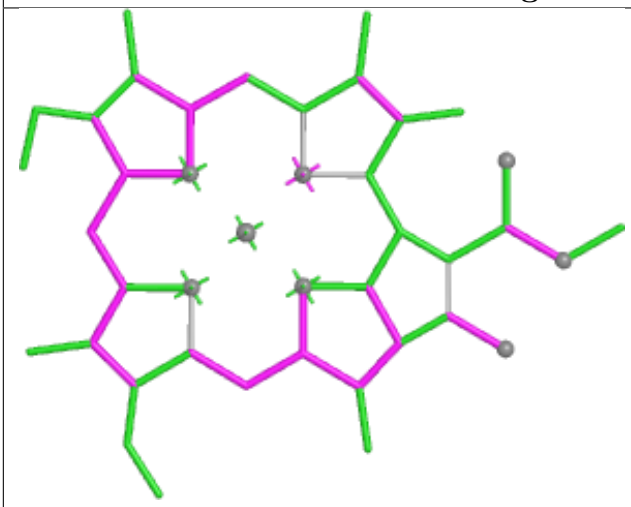


Torsions

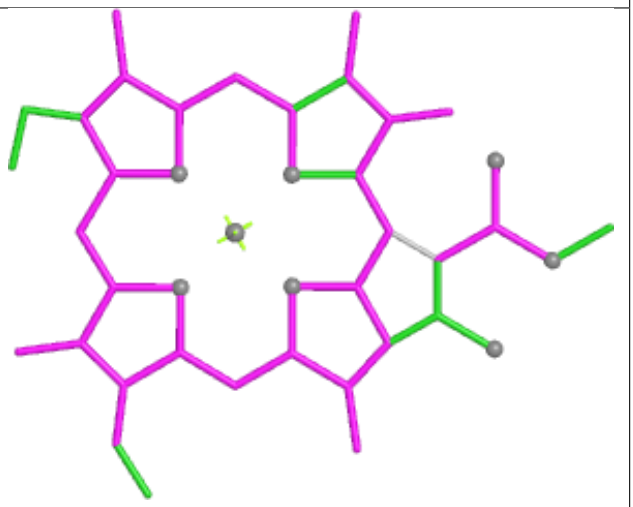


Rings

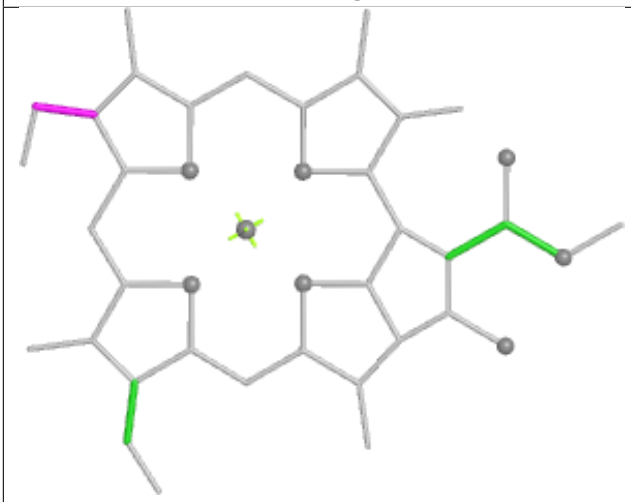
Ligand CLA 1r 302



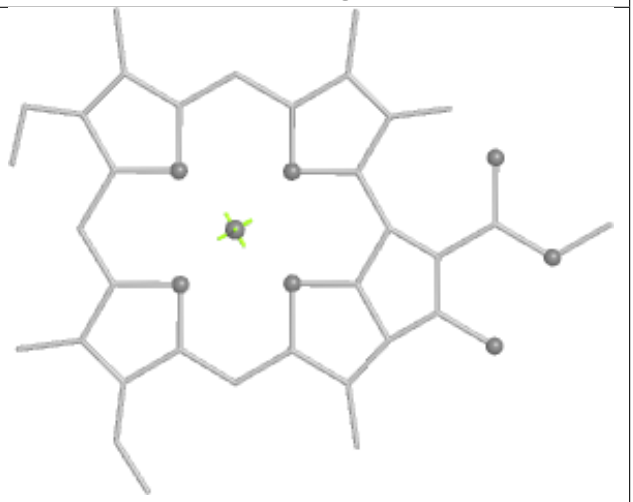
Bond lengths



Bond angles

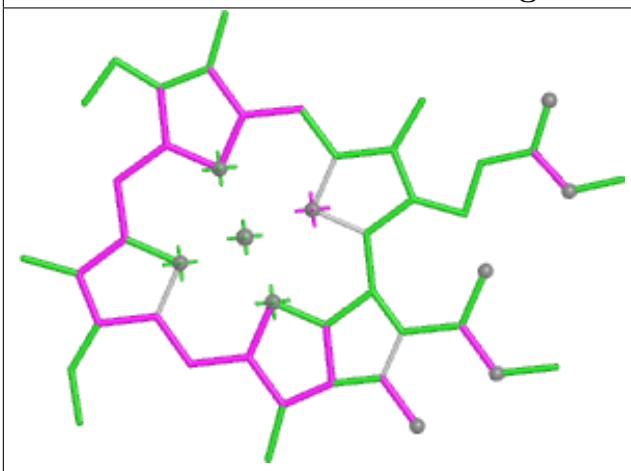


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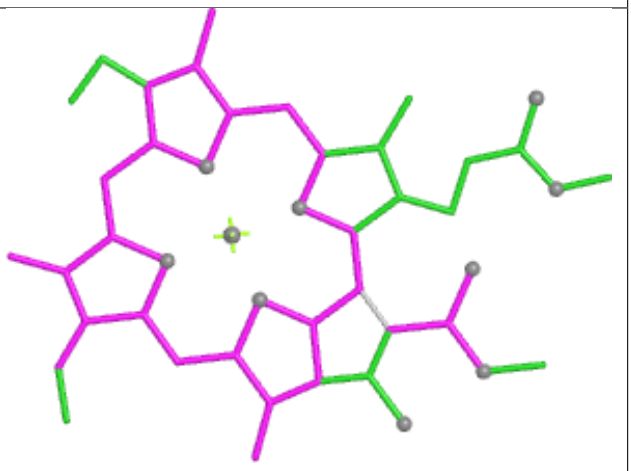


Rings

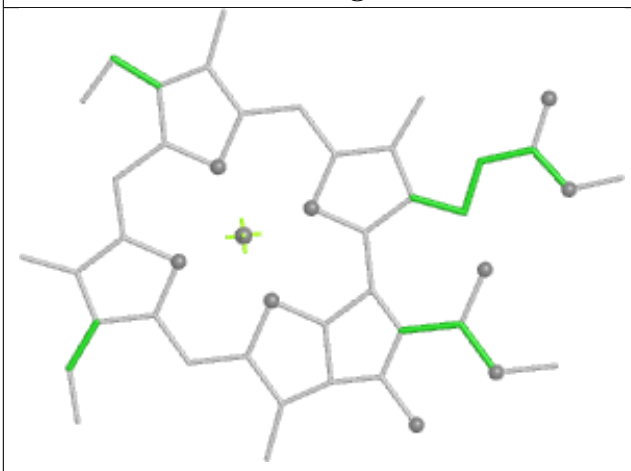
Ligand CLA 01 311



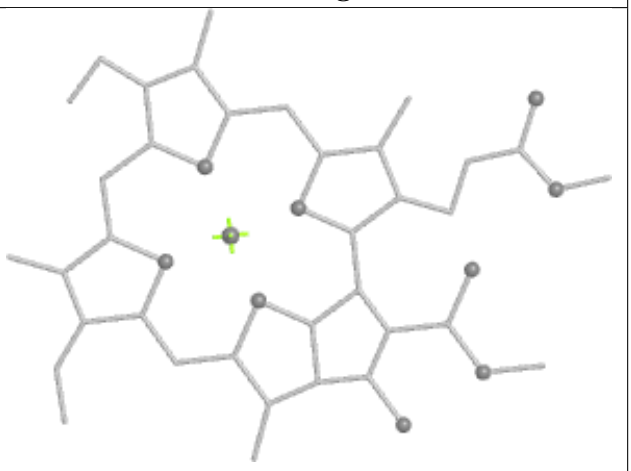
Bond lengths



Bond angles

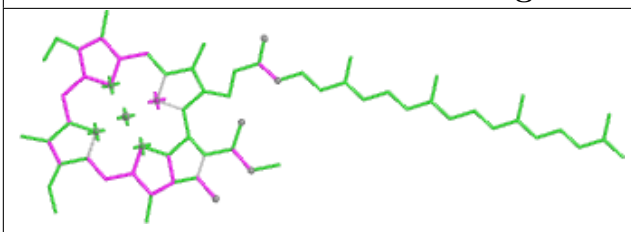


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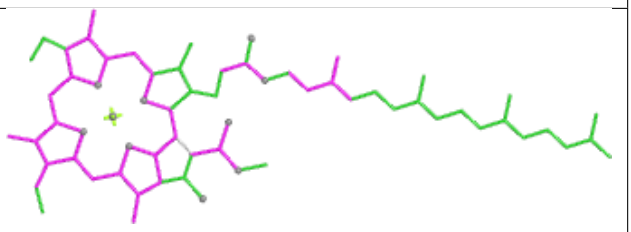


Rings

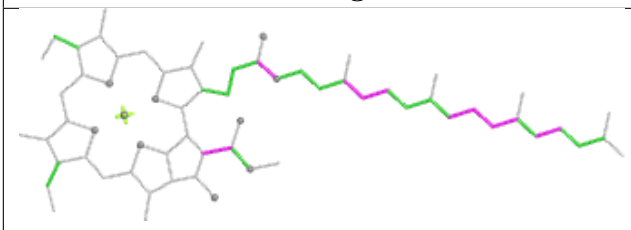
Ligand CLA 1C 509



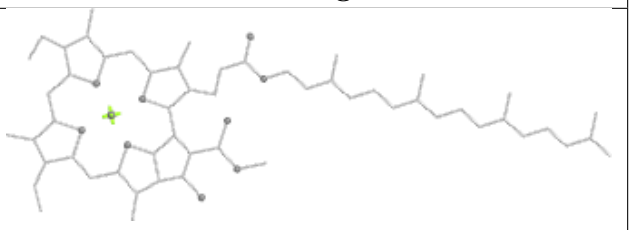
Bond lengths



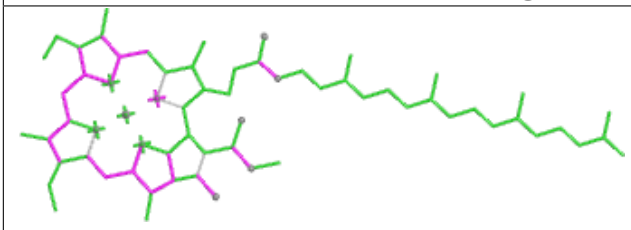
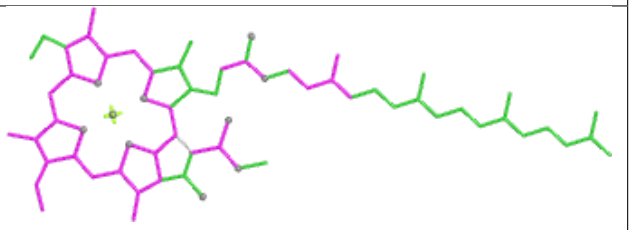
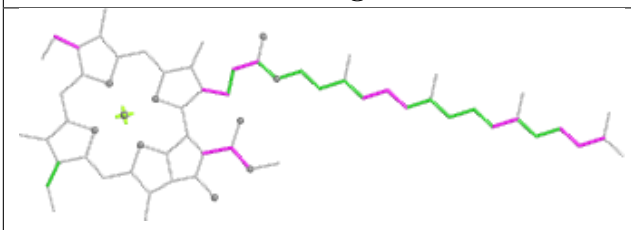
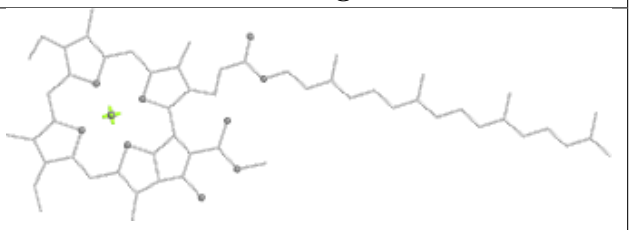
Bond angles

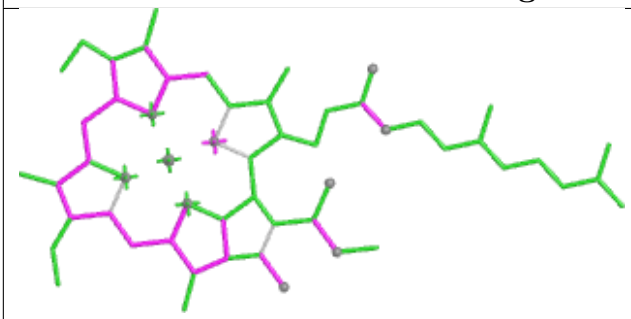
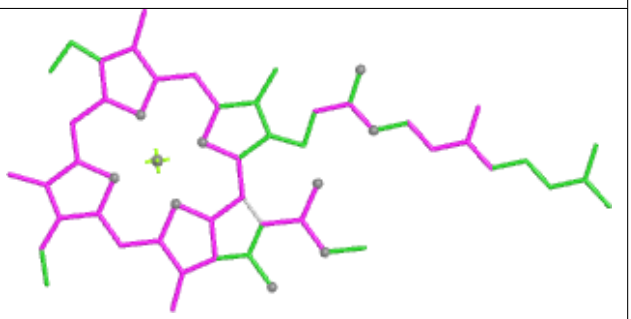
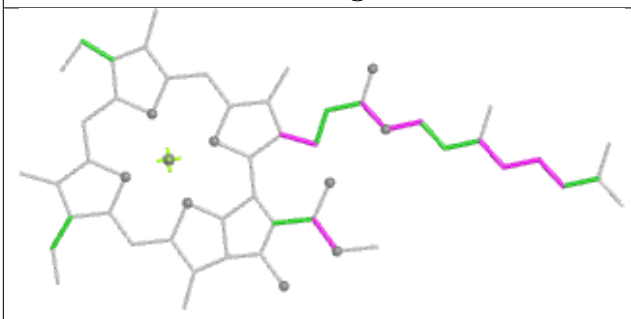
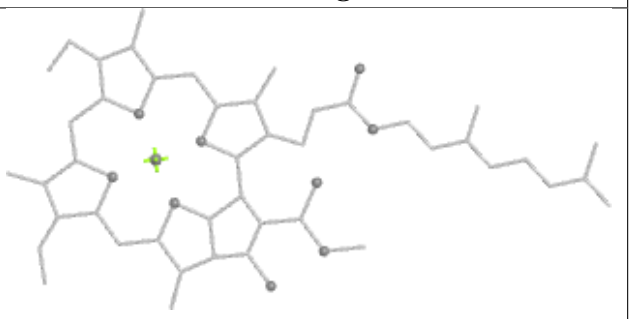


Torsions

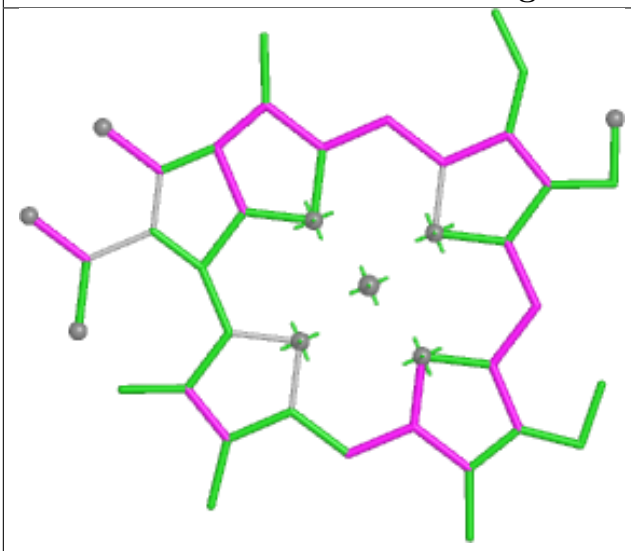


Rings

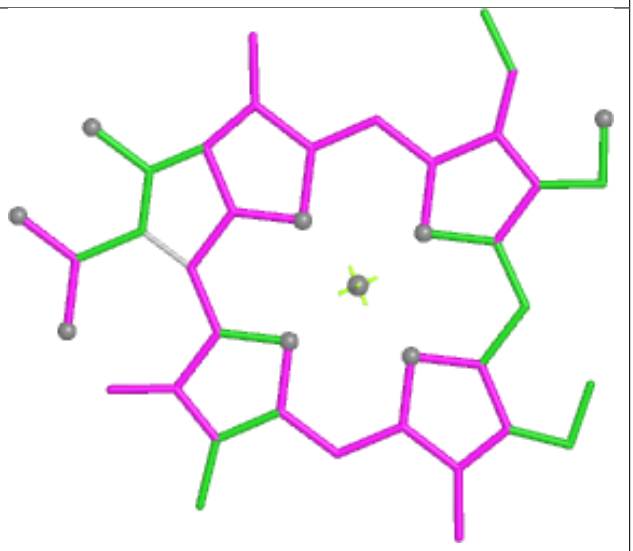
Ligand CLA 01 308	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 1d 407	
 Bond lengths	 Bond angles
 Torsions	 Rings

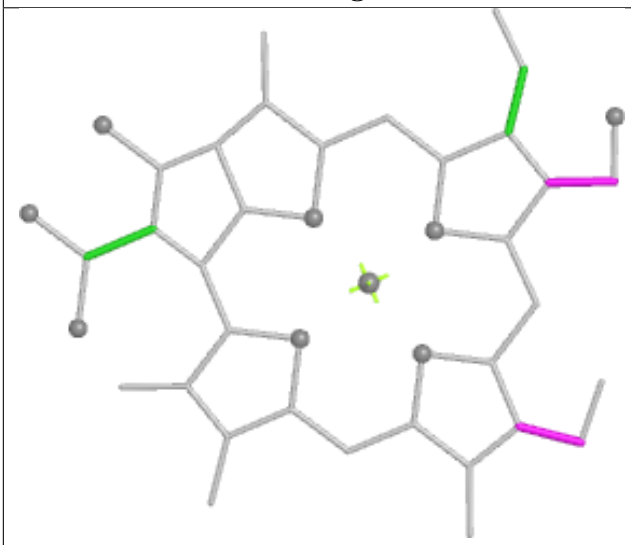
Ligand CHL 07 306



Bond lengths



Bond angles

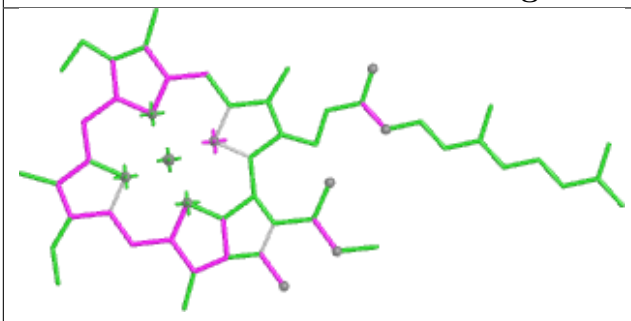


Torsions

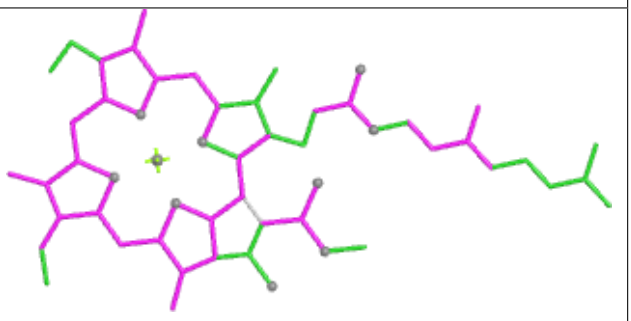


Rings

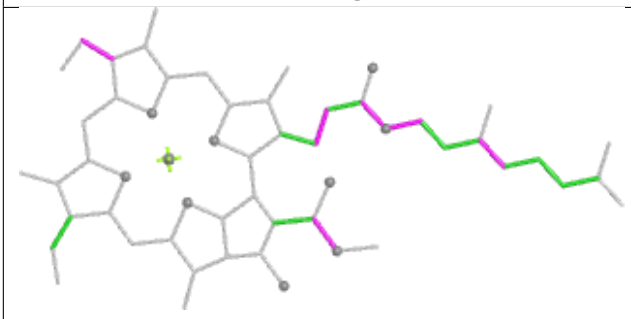
Ligand CLA 1s 312



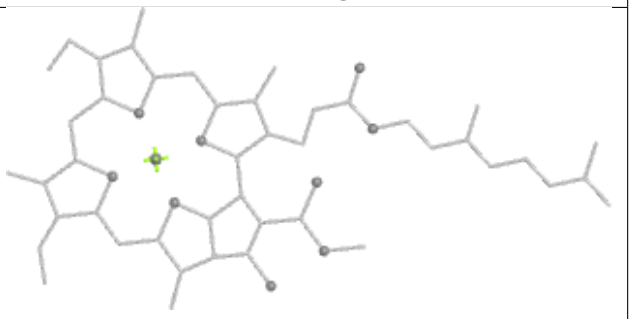
Bond lengths



Bond angles

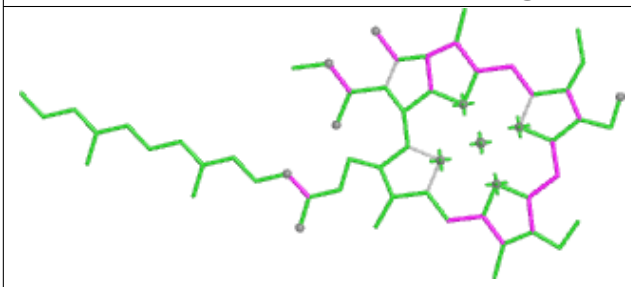


Torsions

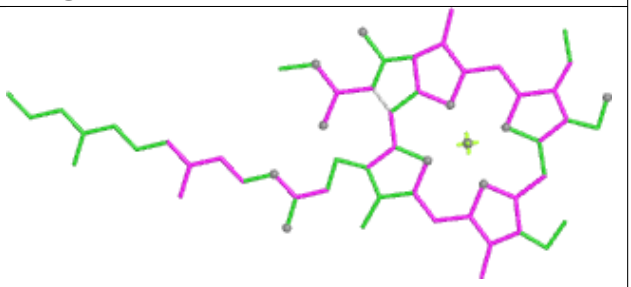


Rings

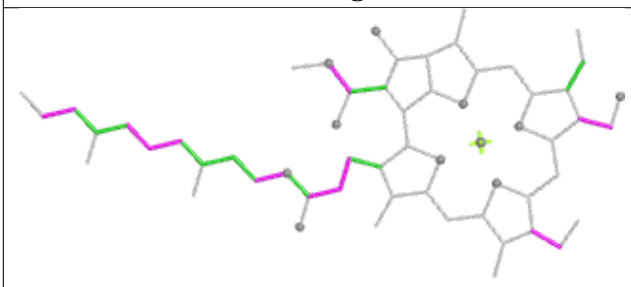
Ligand CHL 1g 601



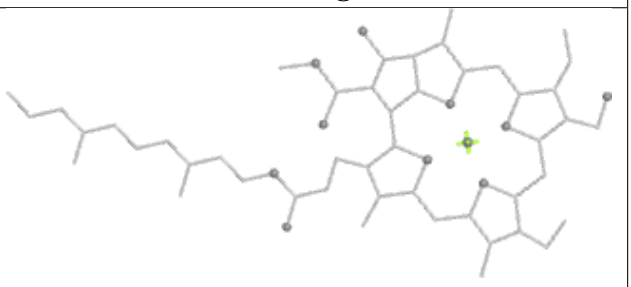
Bond lengths



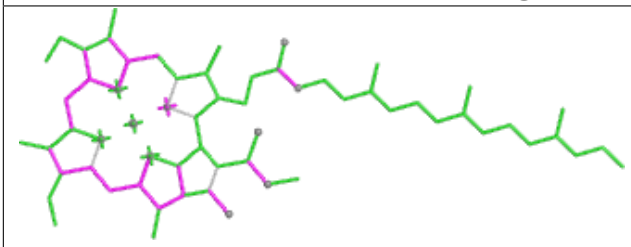
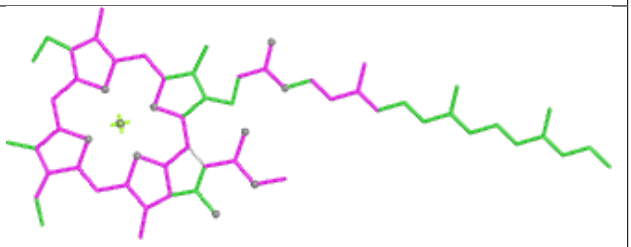
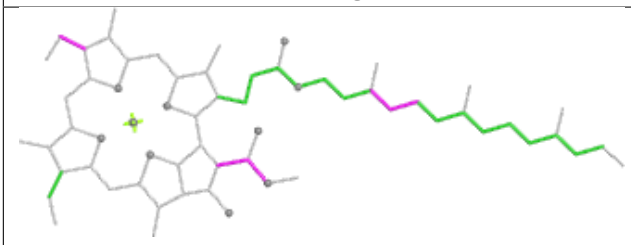
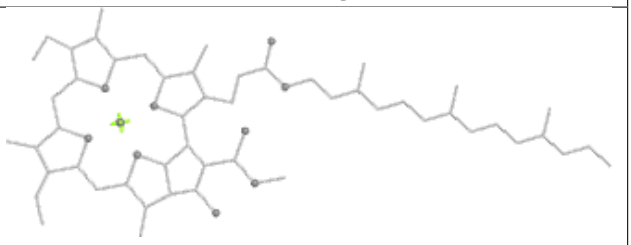
Bond angles

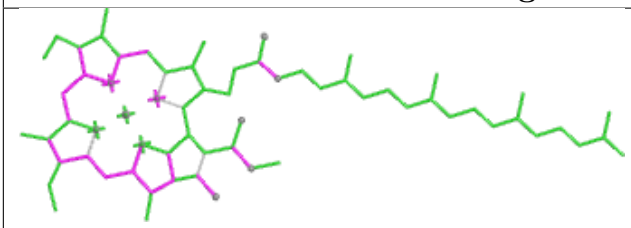
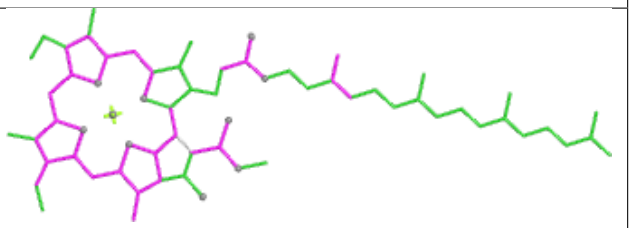
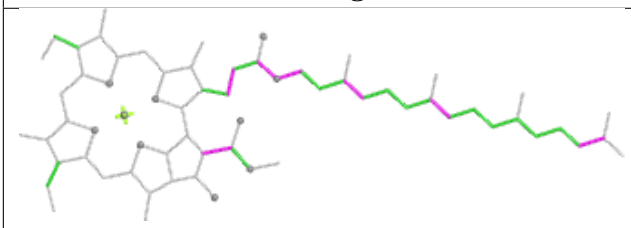
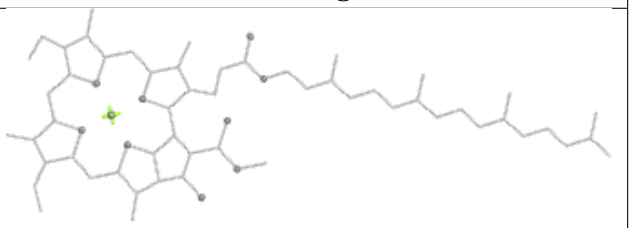


Torsions

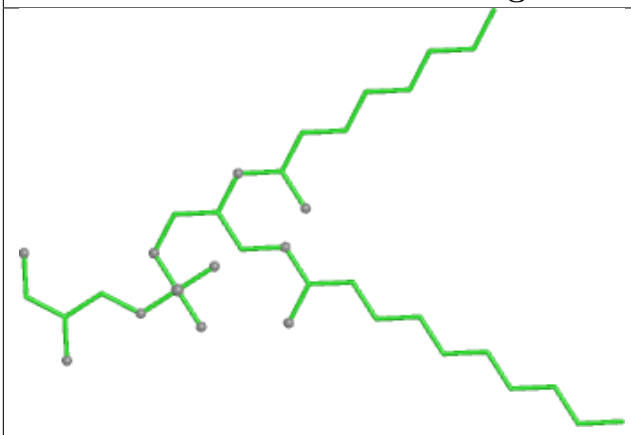


Rings

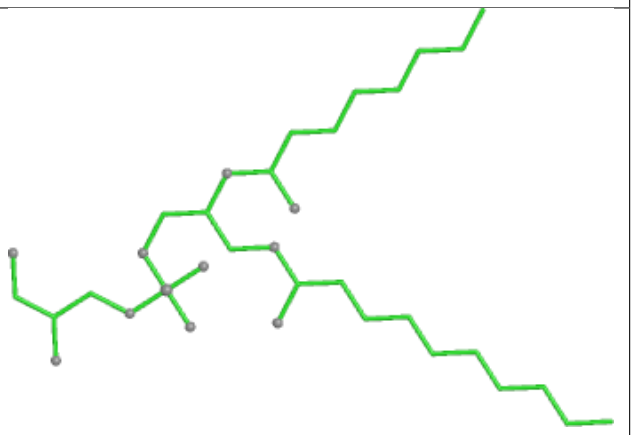
Ligand CLA 1B 607	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA 1b 604	
	
Bond lengths	Bond angles
	
Torsions	Rings

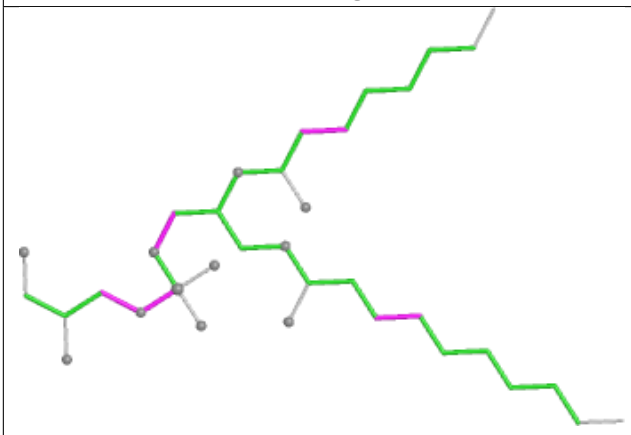
Ligand LHG 1W 101



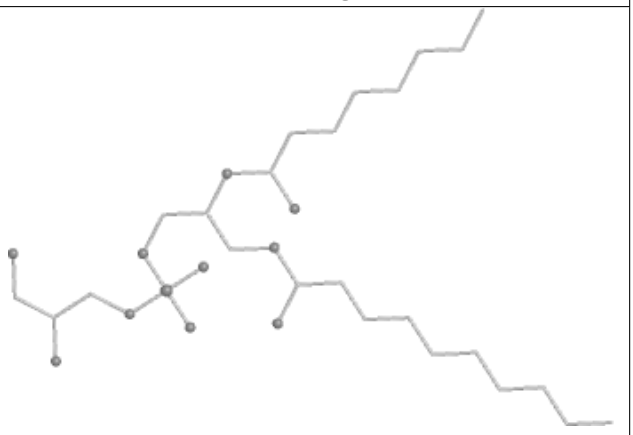
Bond lengths



Bond angles

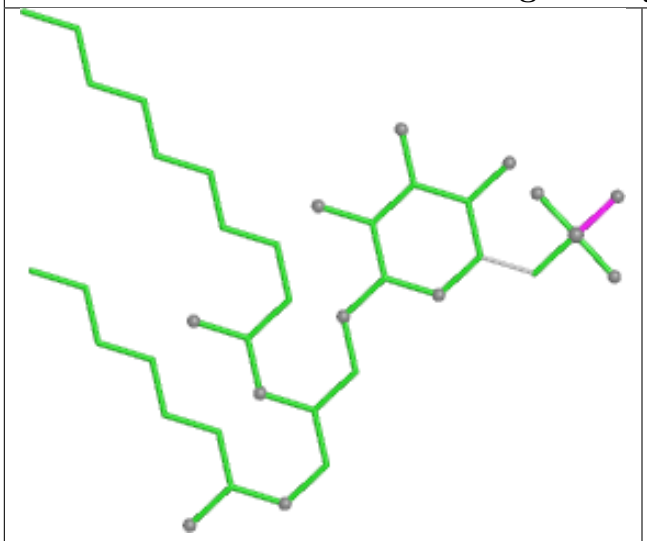


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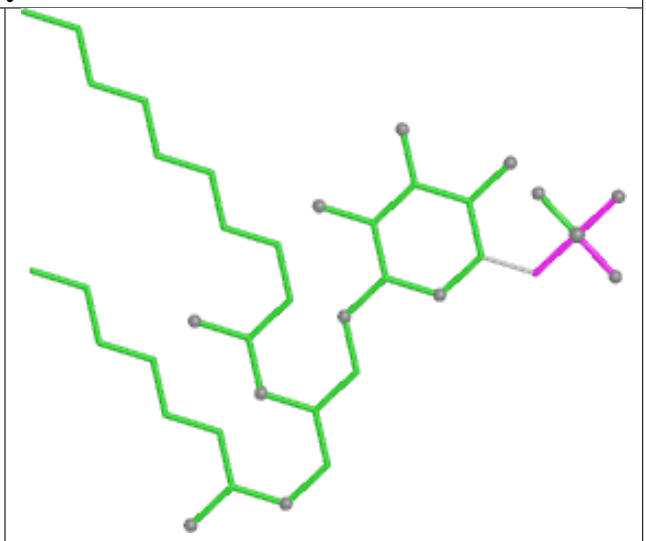


Rings

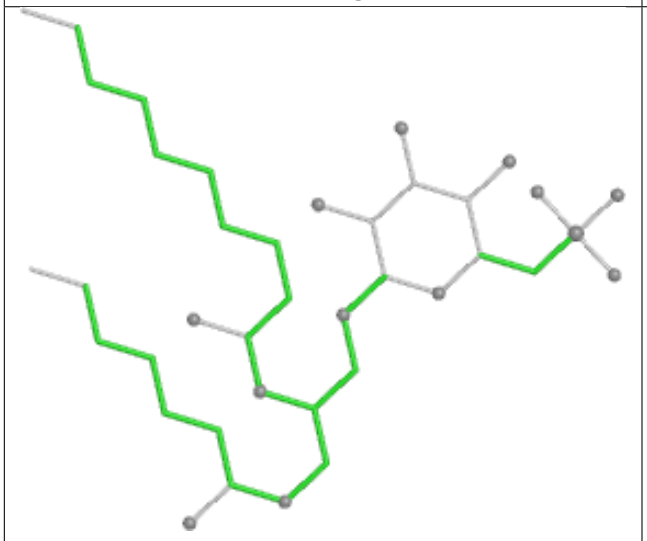
Ligand SQD 1d 411



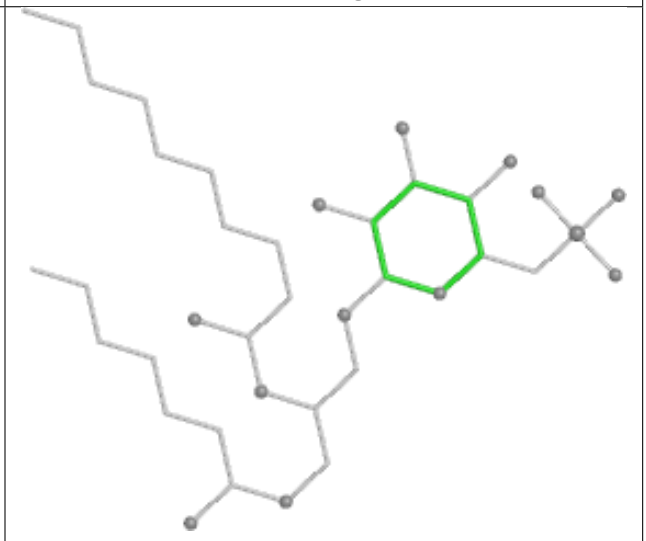
Bond lengths



Bond angles

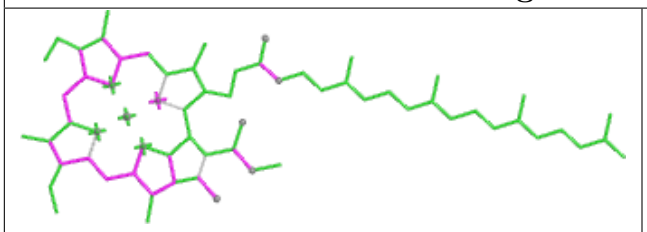


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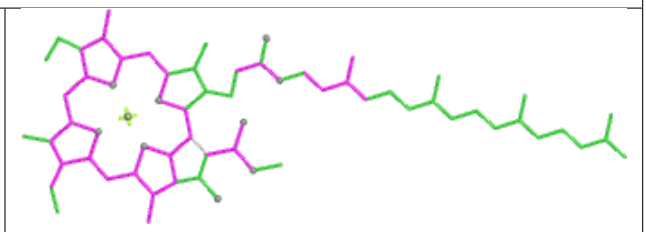


Rings

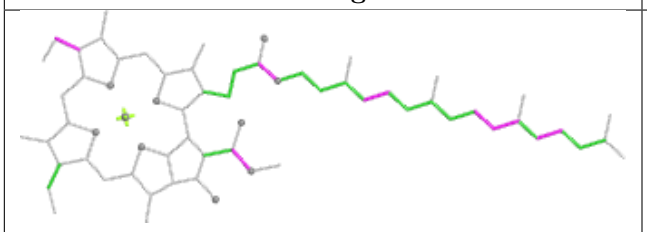
Ligand CLA 1B 605



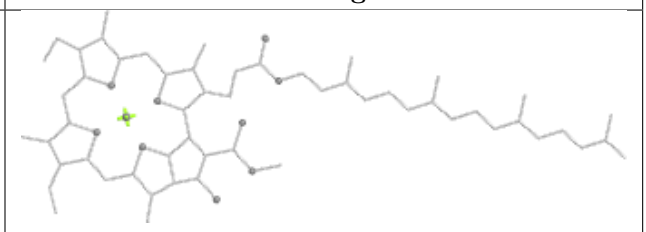
Bond lengths



Bond angles

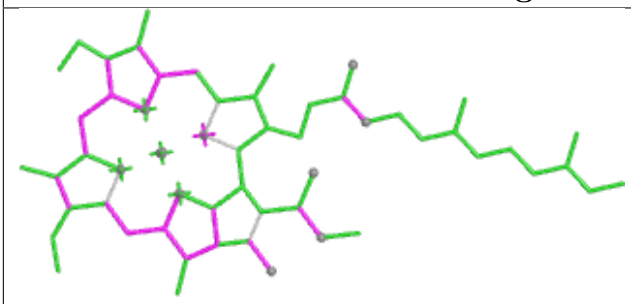


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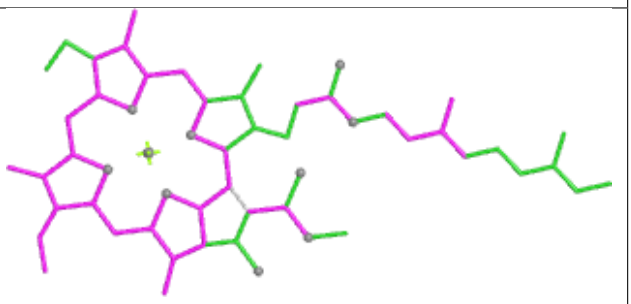


Rings

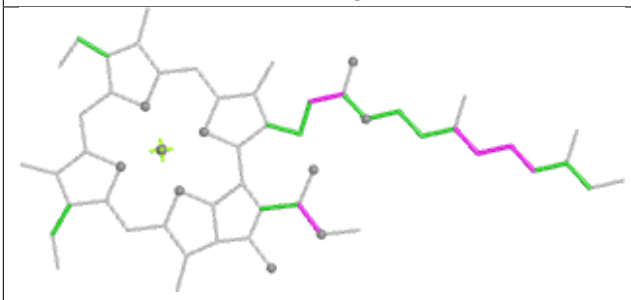
Ligand CLA 1B 611



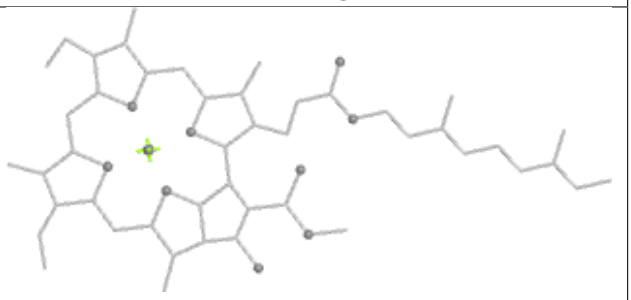
Bond lengths



Bond angles

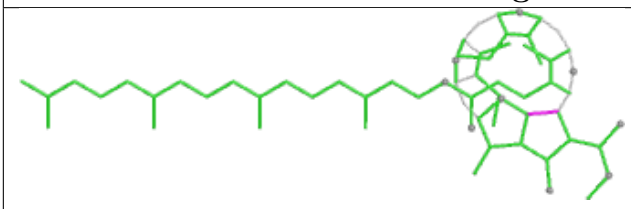


Torsions

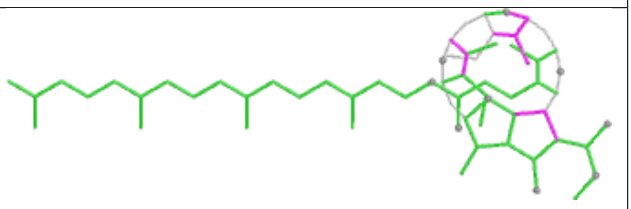


Rings

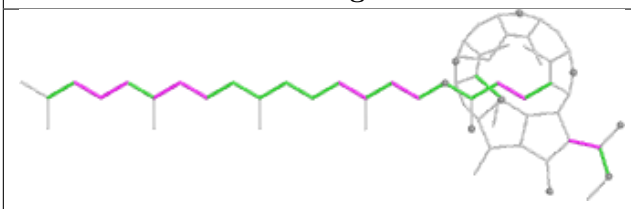
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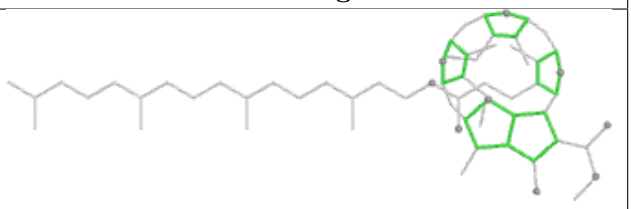
Bond lengths



Bond angles

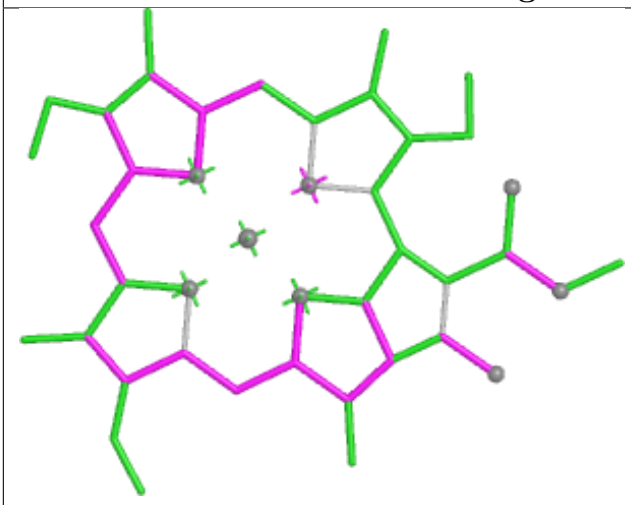


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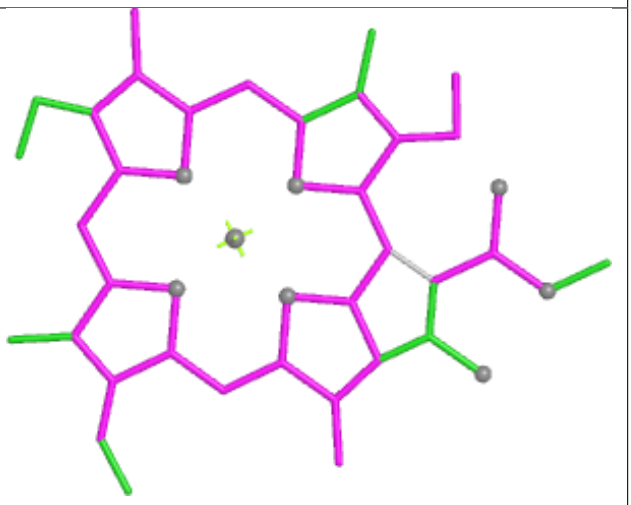


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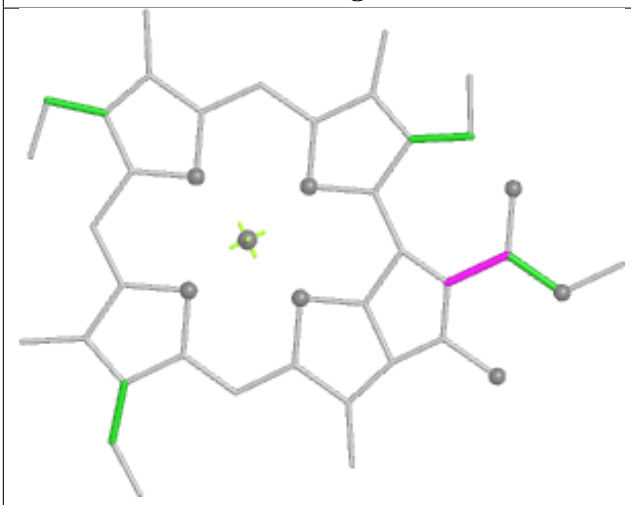
Ligand CLA 1b 605



Bond lengths



Bond angles

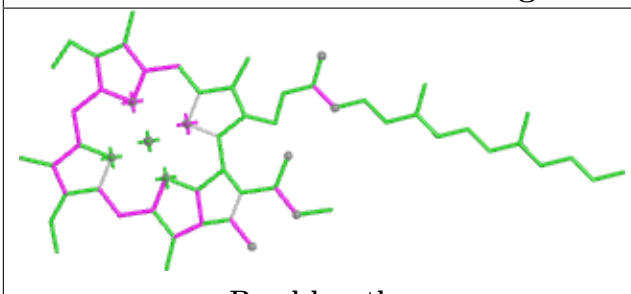


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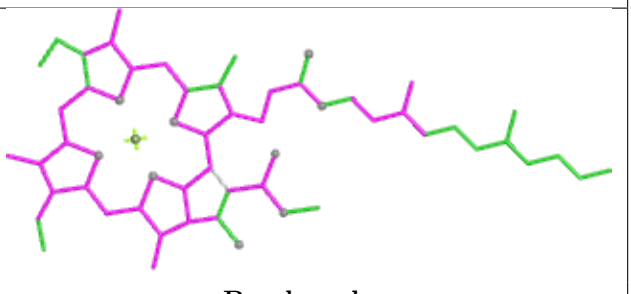


Rings

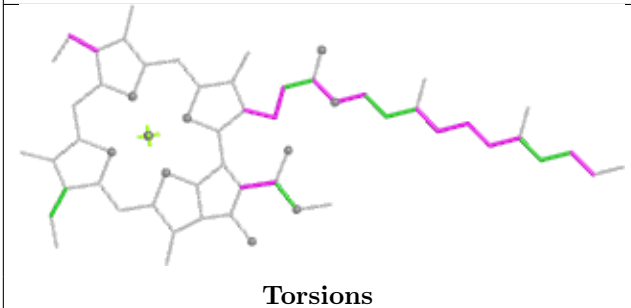
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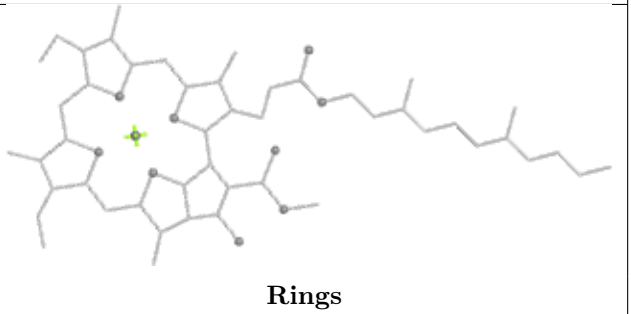
Bond lengths



Bond angles

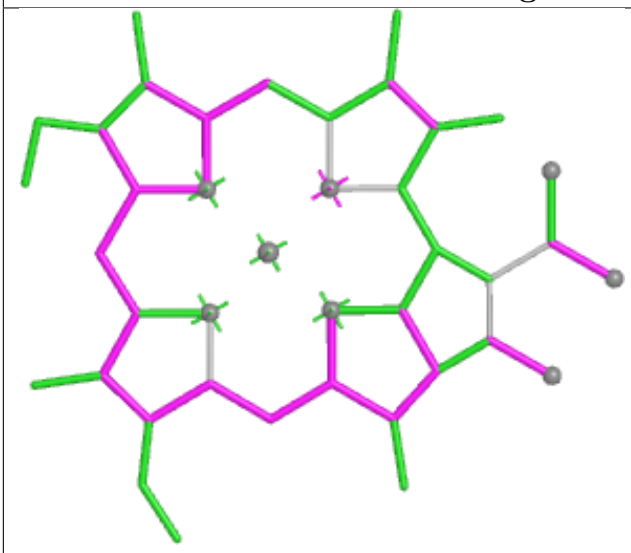


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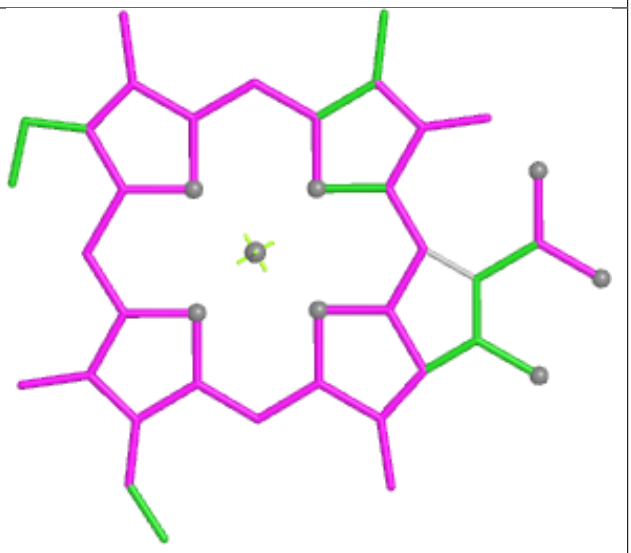


Rings

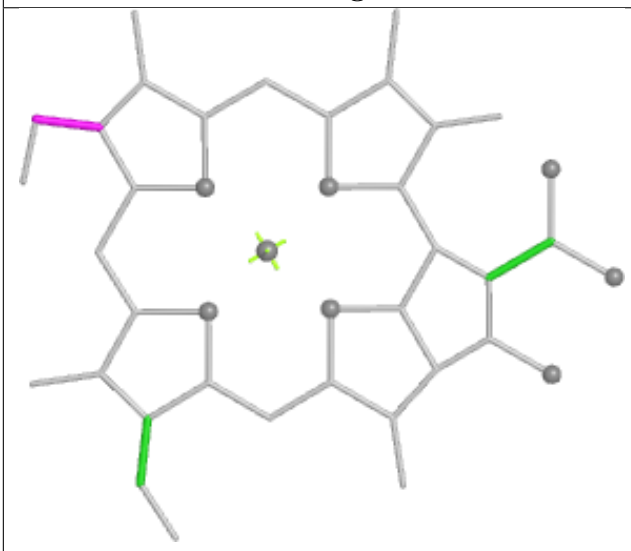
Ligand CLA 08 307



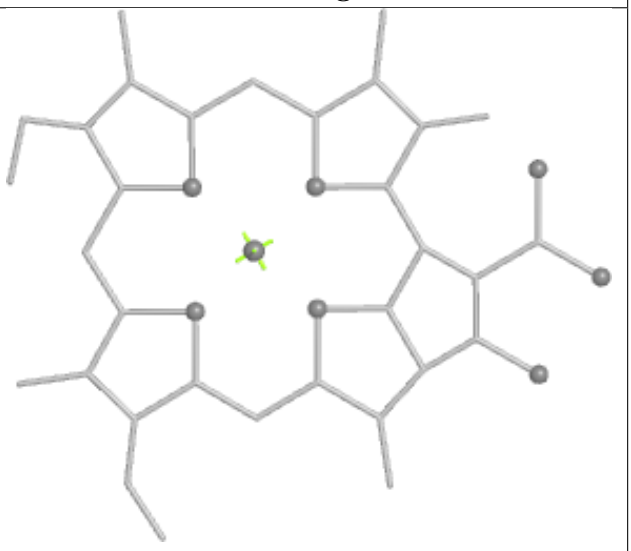
Bond lengths



Bond angles

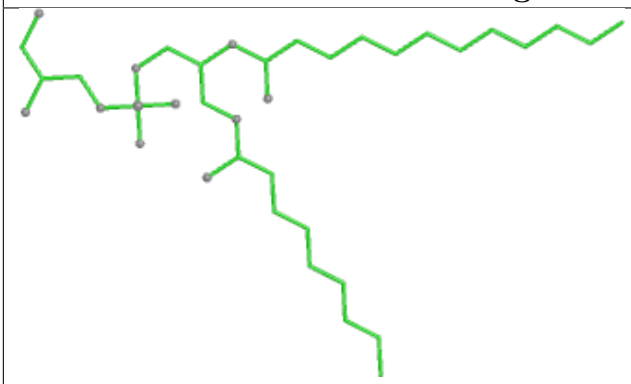


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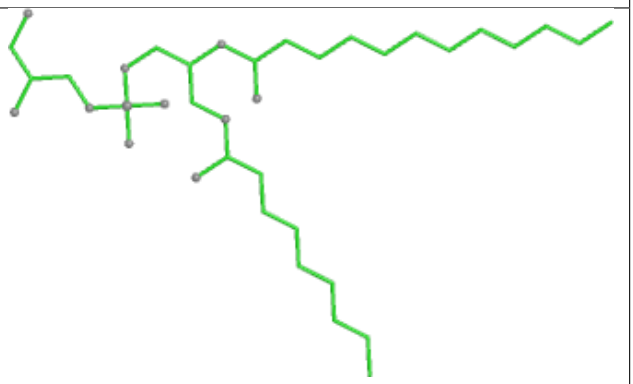


Rings

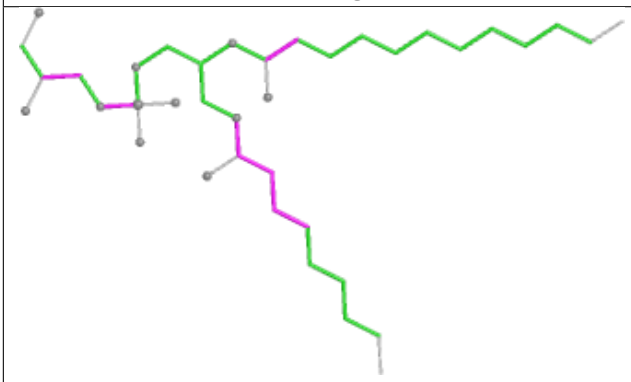
Ligand LHG 1R 317



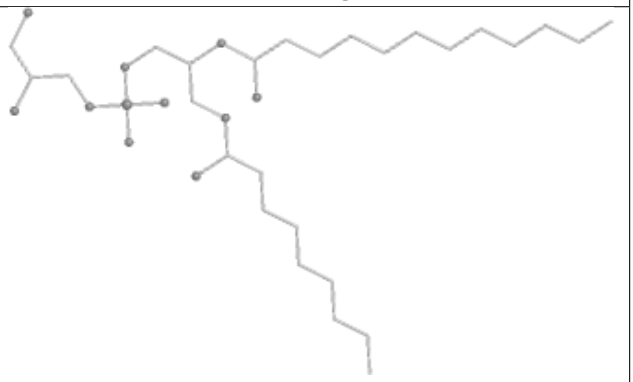
Bond lengths



Bond angles

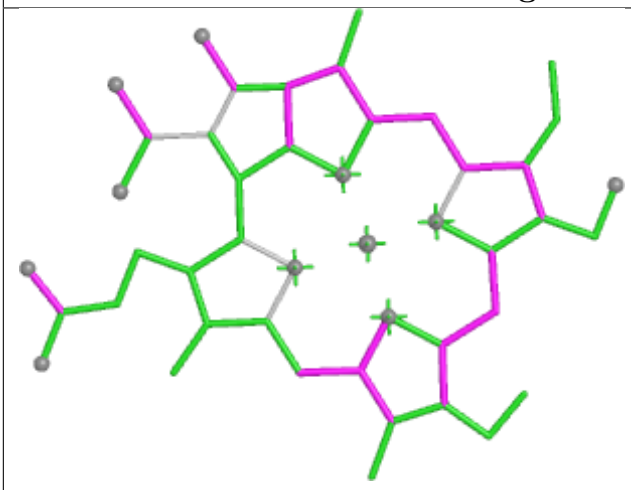


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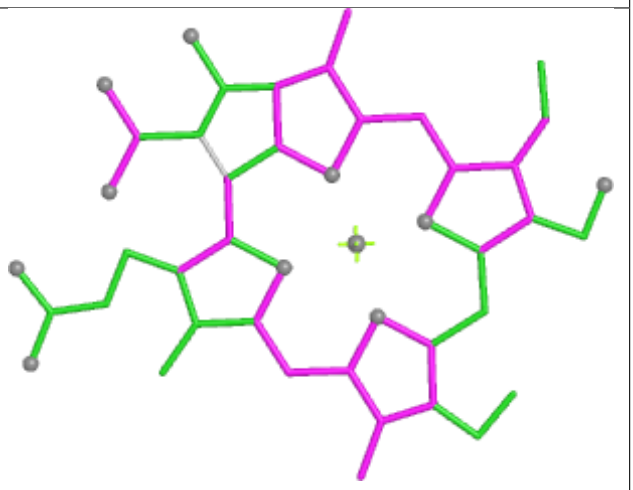


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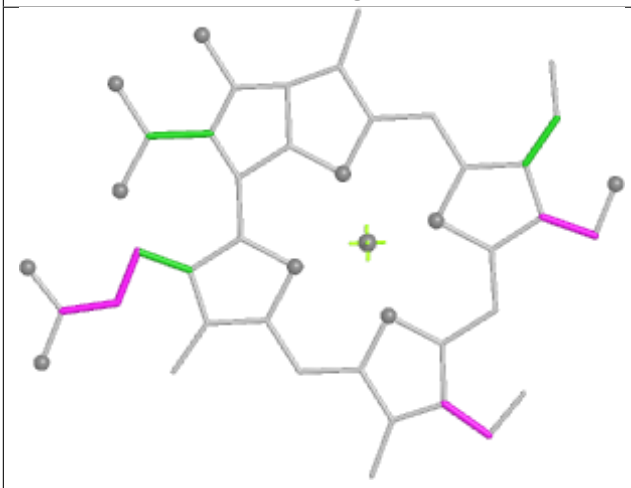
Ligand CHL 06 605



Bond lengths



Bond angles

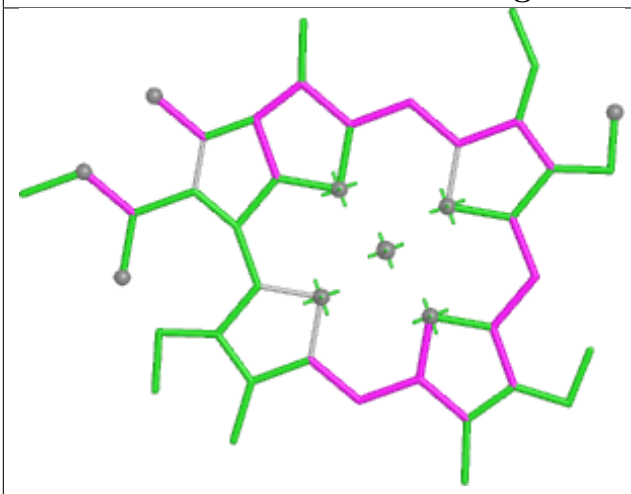


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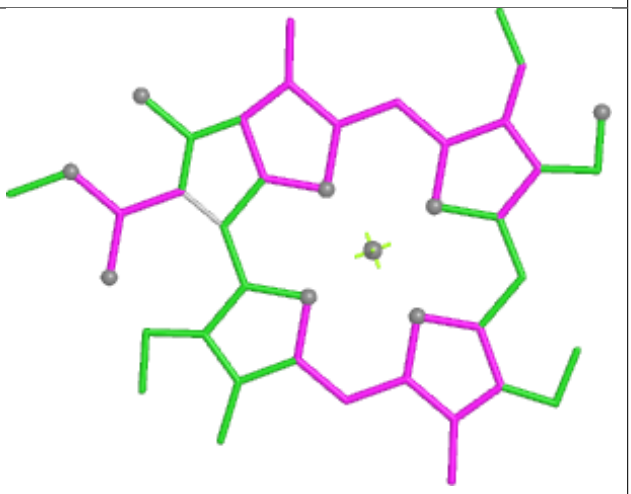


Rings

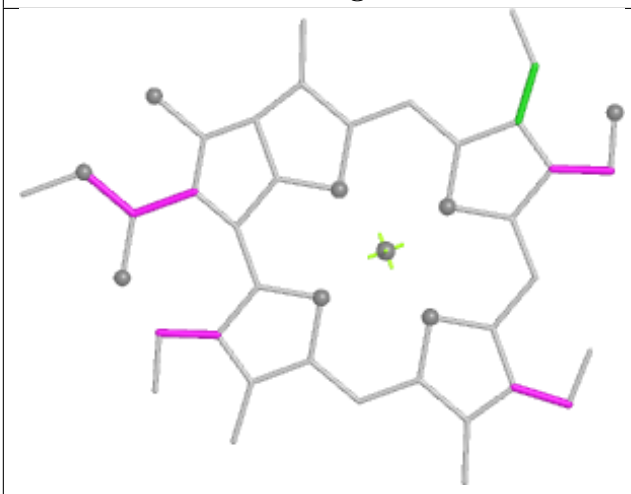
Ligand CHL 1G 608



Bond lengths



Bond angles

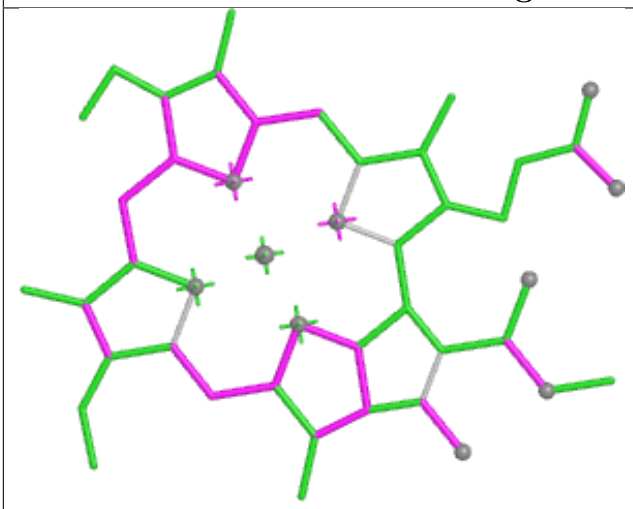


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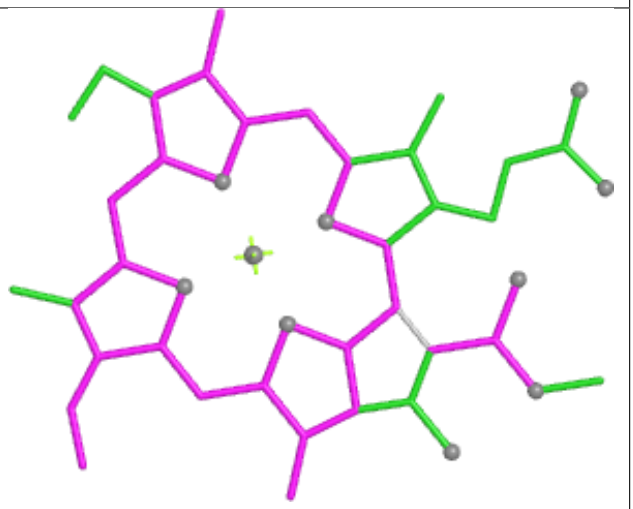


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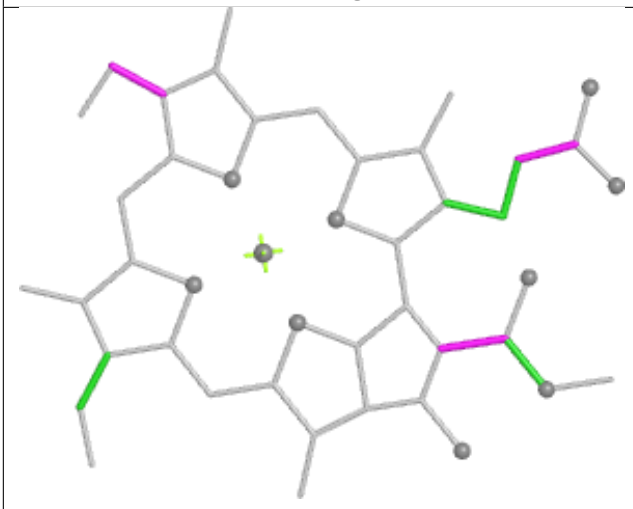
Ligand CLA 1B 614



Bond lengths



Bond angles

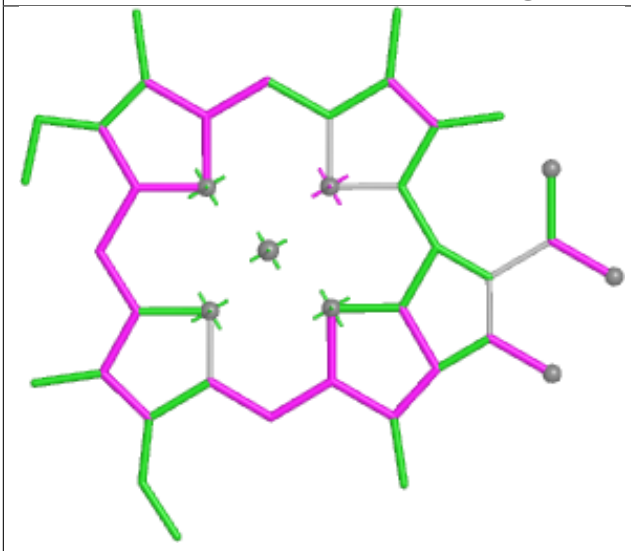


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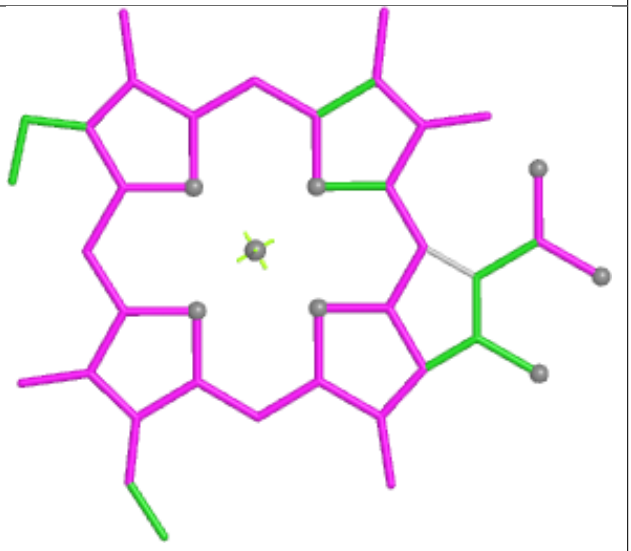


Rings

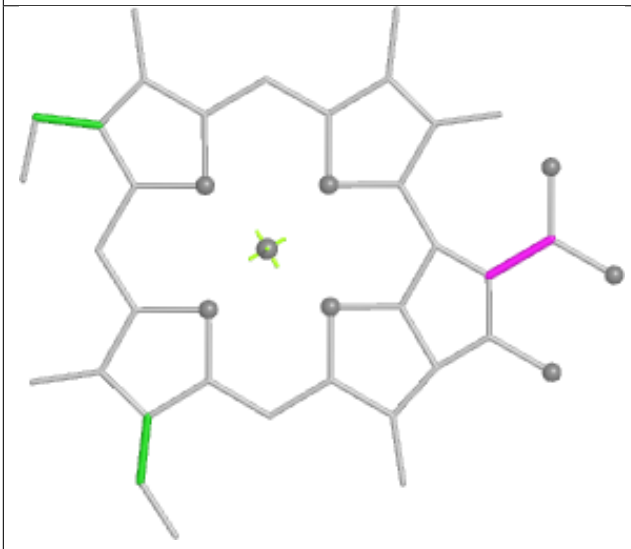
Ligand CLA 08 311



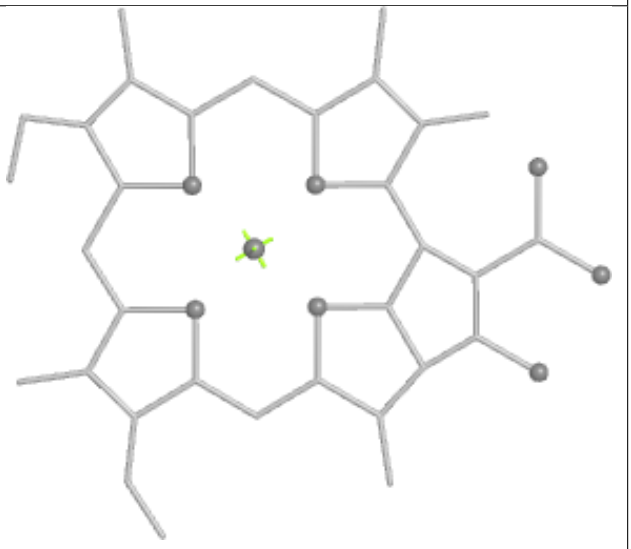
Bond lengths



Bond angles

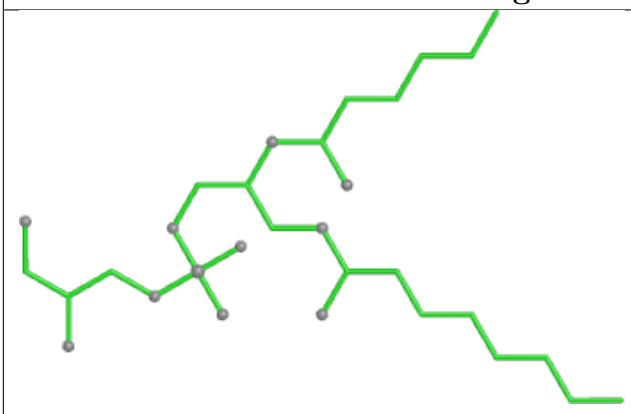


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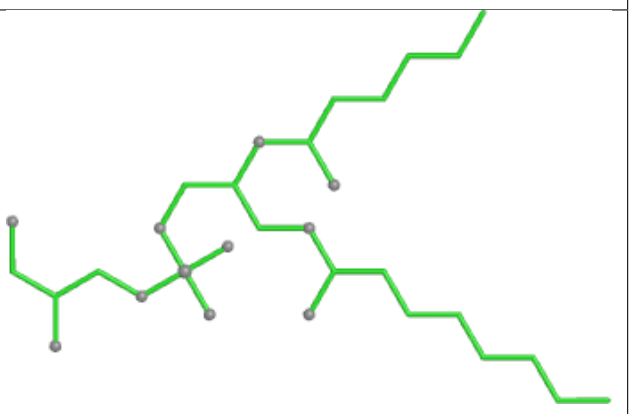


Rings

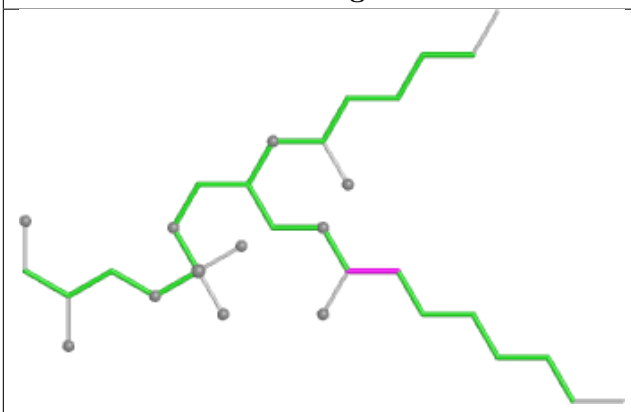
Ligand LHG 1D 408



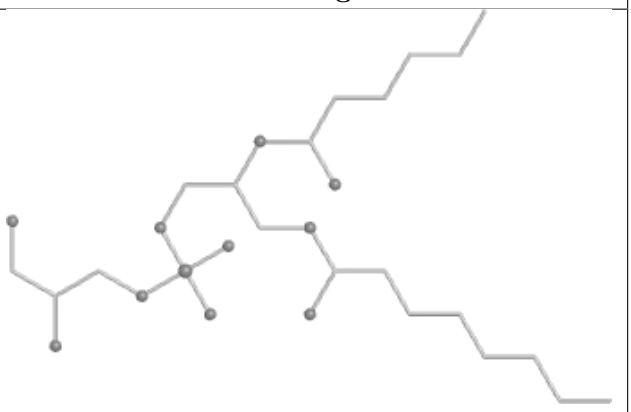
Bond lengths



Bond angles

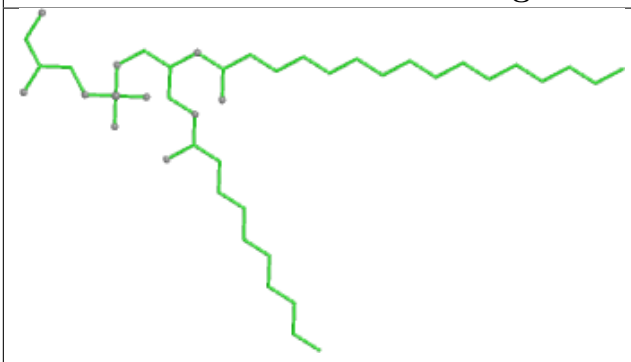


Torsions

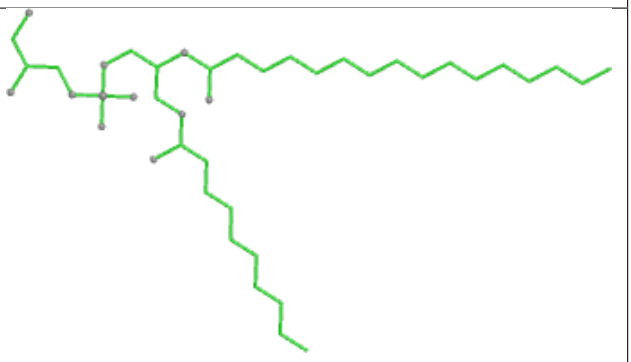


Rings

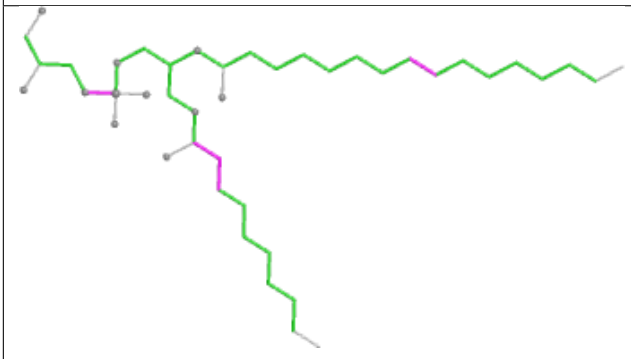
Ligand LHG 1N 317



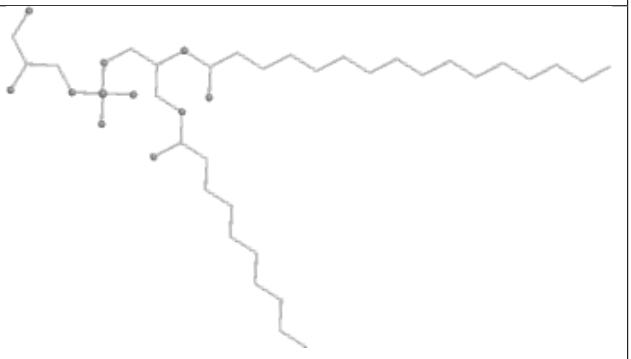
Bond lengths



Bond angles

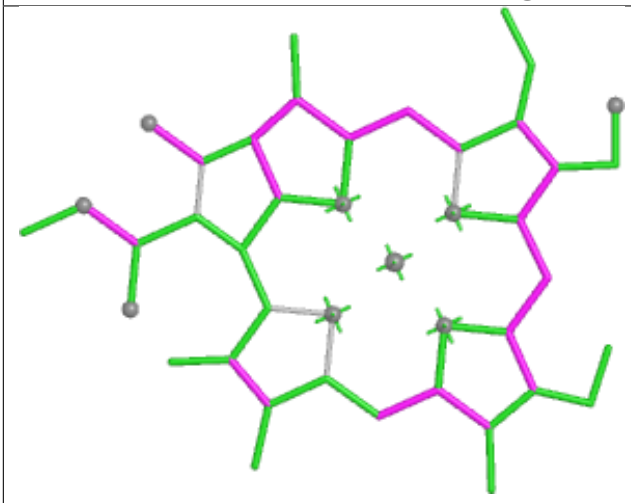


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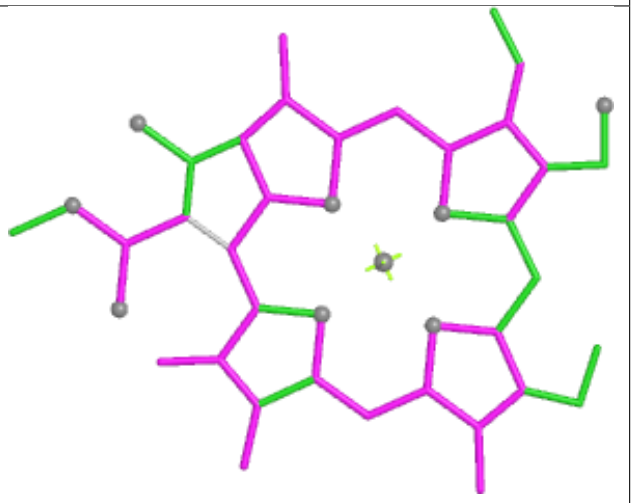


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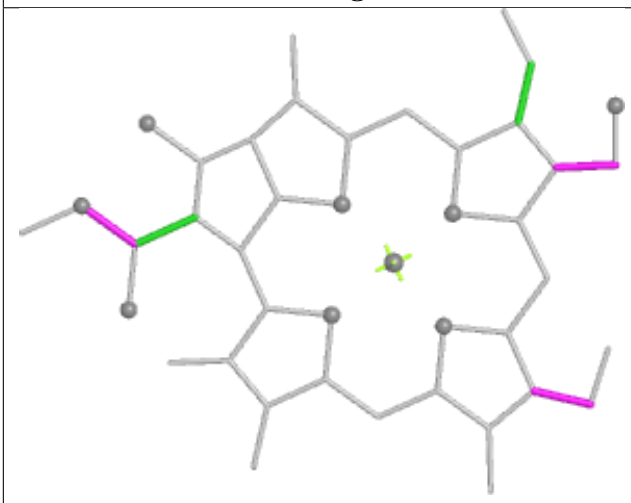
Ligand CHL 05 307



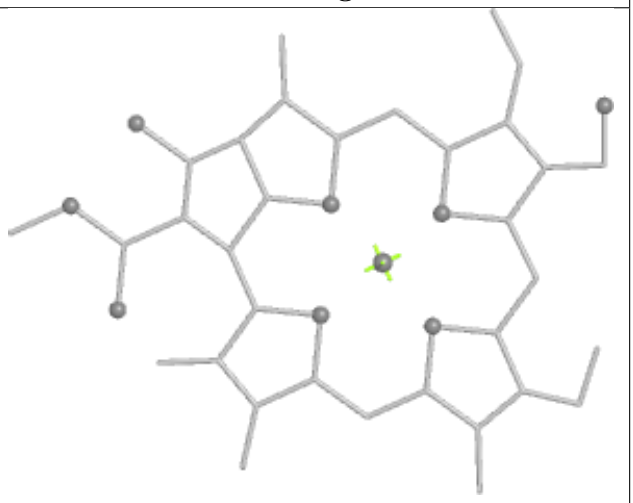
Bond lengths



Bond angles

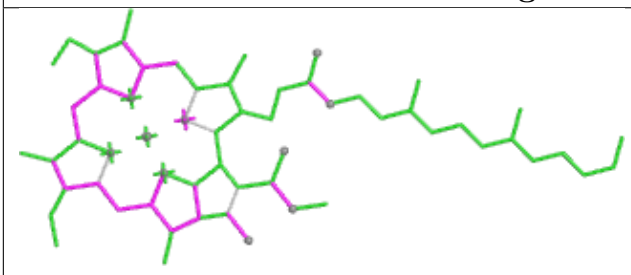


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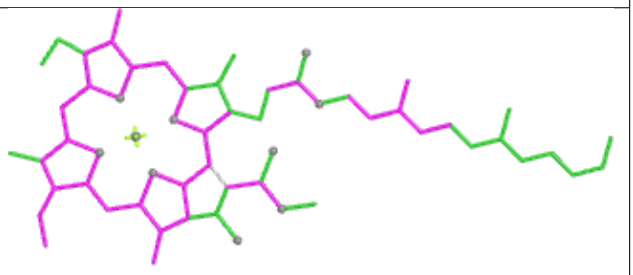


Rings

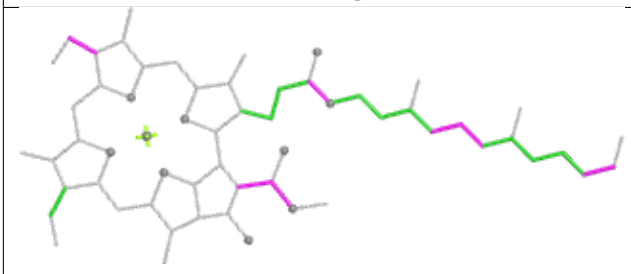
Ligand CLA 1b 608



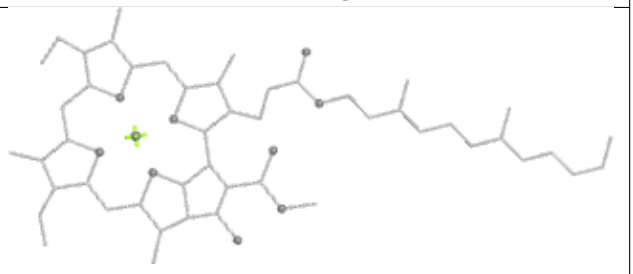
Bond lengths



Bond angles

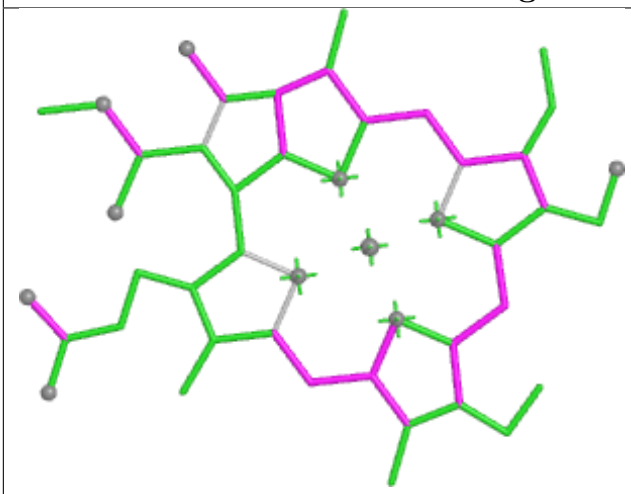


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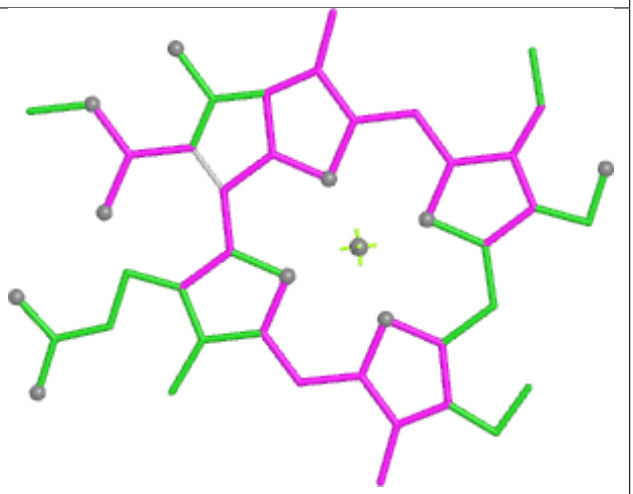


Rings

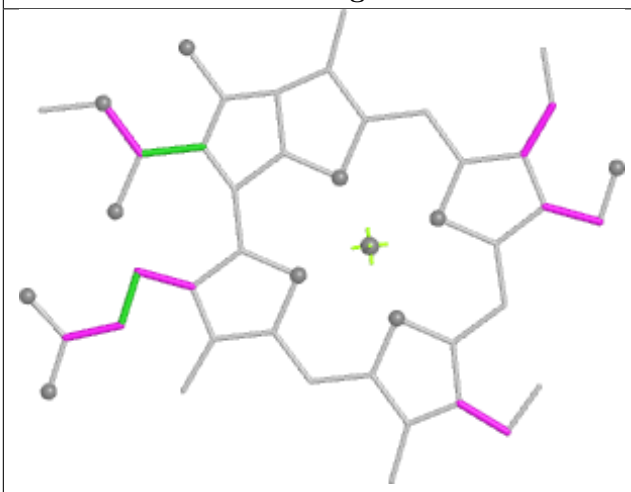
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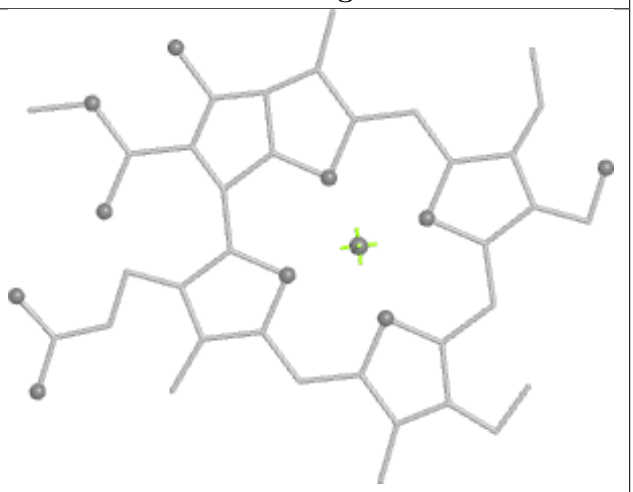
Bond lengths



Bond angles

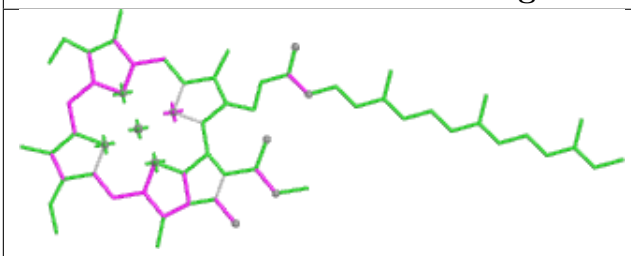


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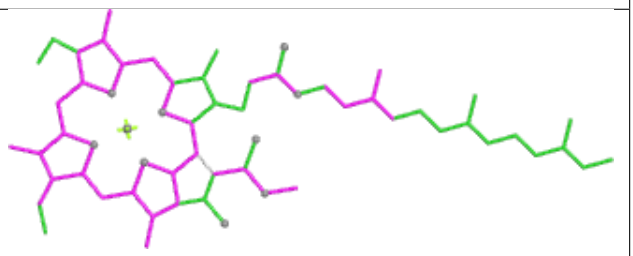


Rings

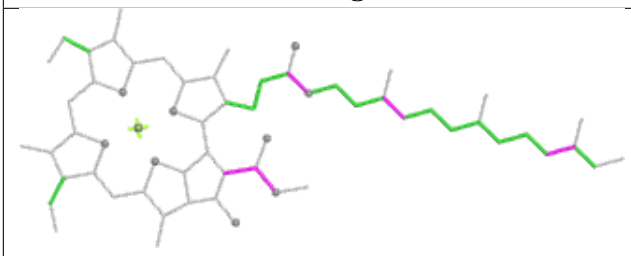
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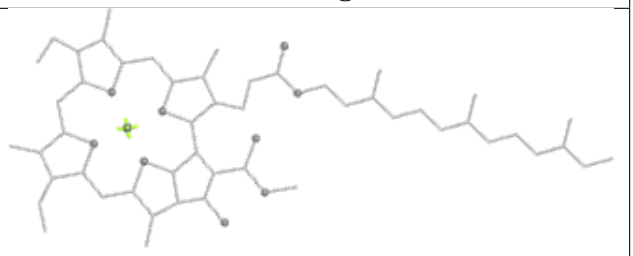
Bond lengths



Bond angles

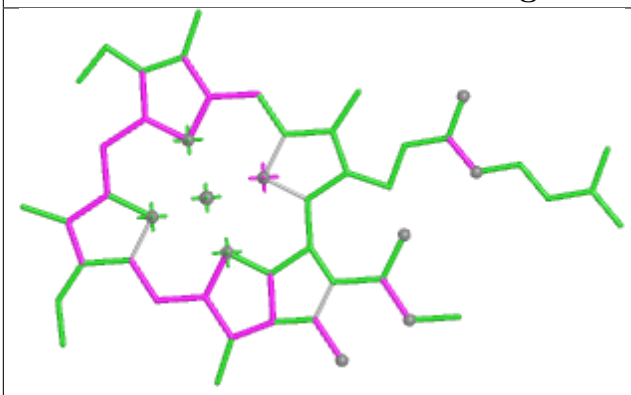


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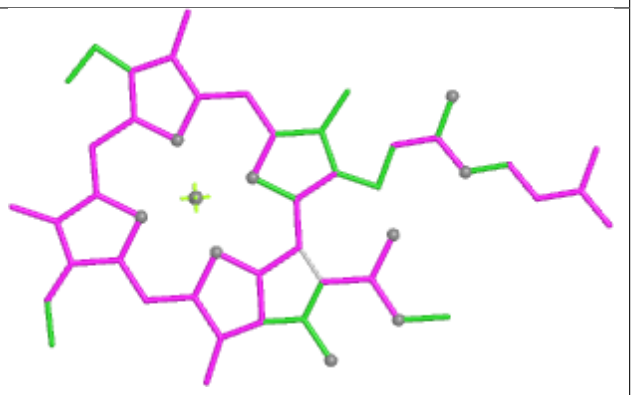


Rings

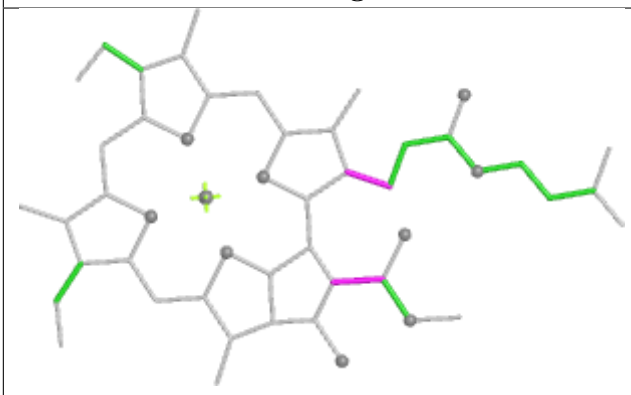
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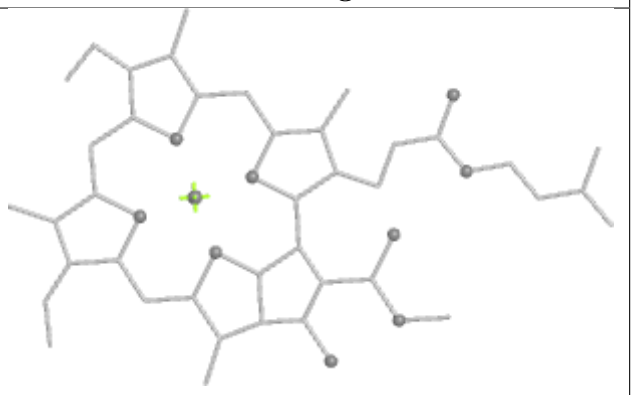
Bond lengths



Bond angles

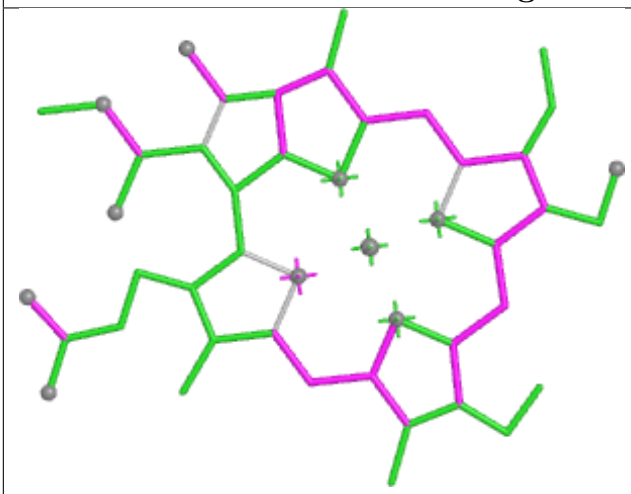


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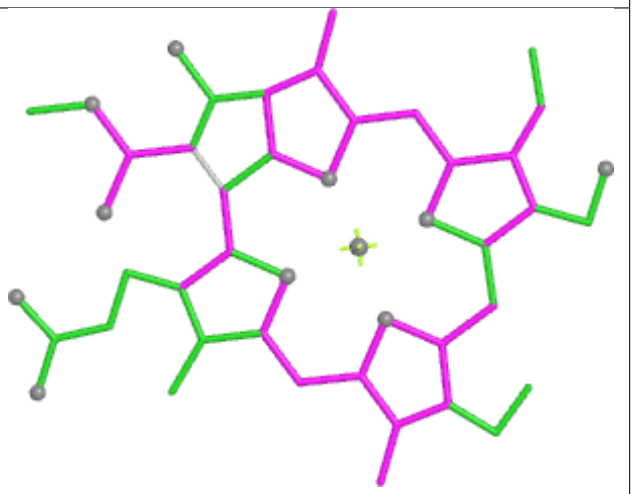


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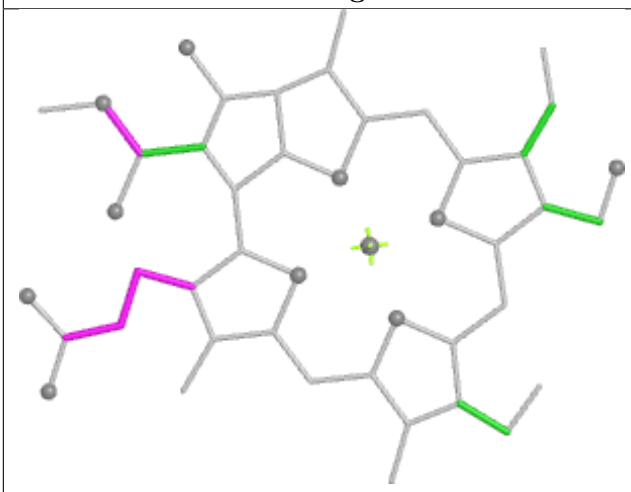
Ligand CHL 1n 608



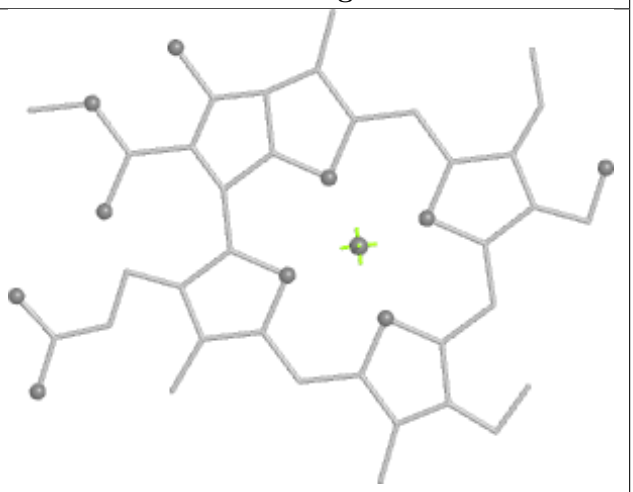
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Bond angles

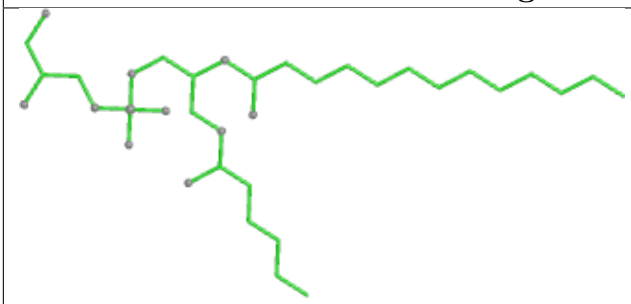


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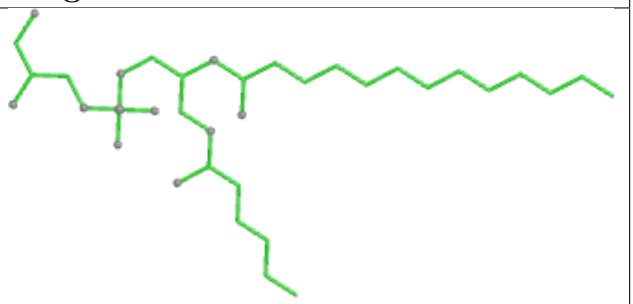


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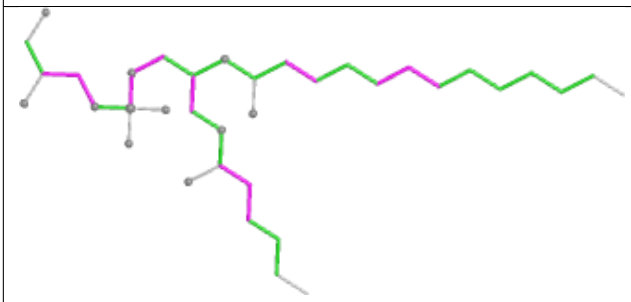
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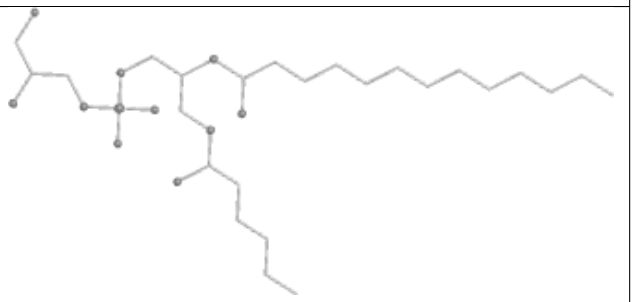
Bond lengths



Bond angles

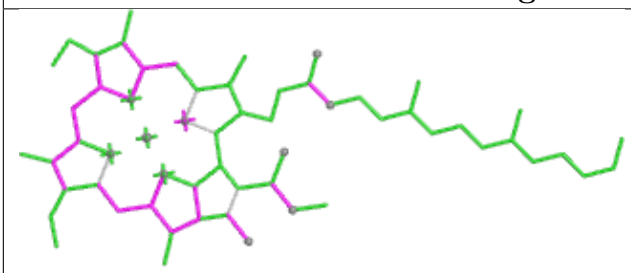


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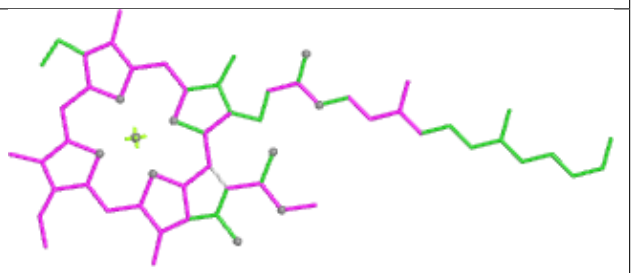


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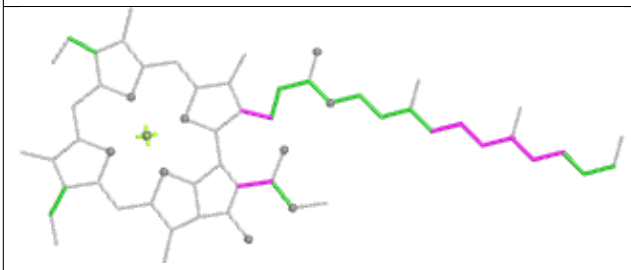
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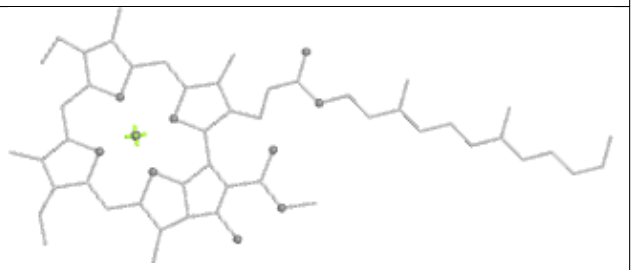
Bond lengths



Bond angles

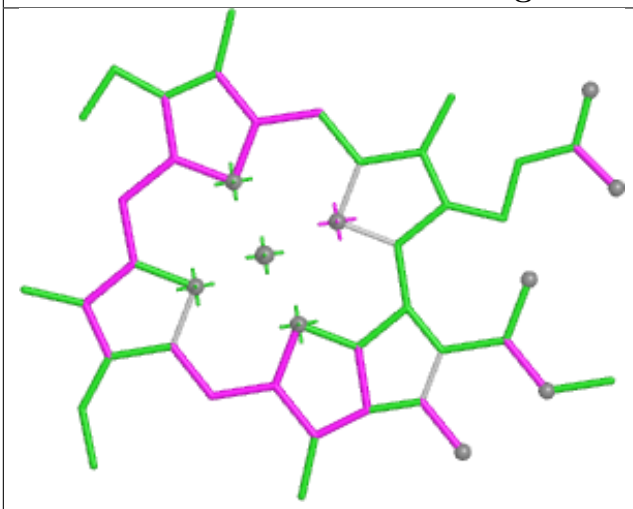


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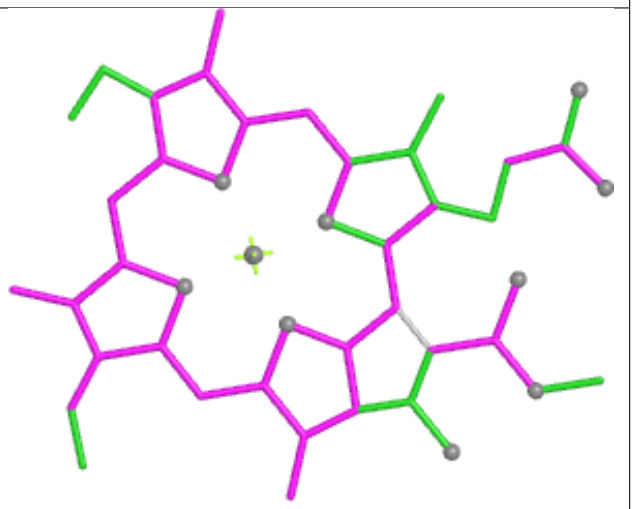


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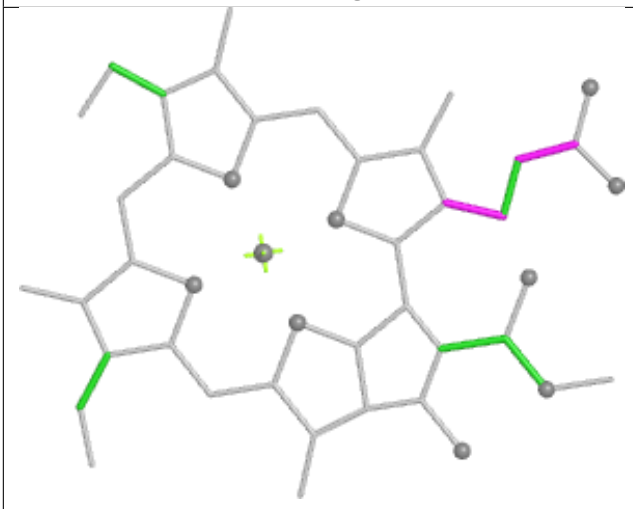
Ligand CLA 1A 407



Bond lengths



Bond angles

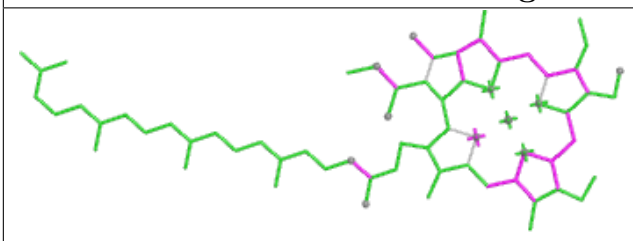


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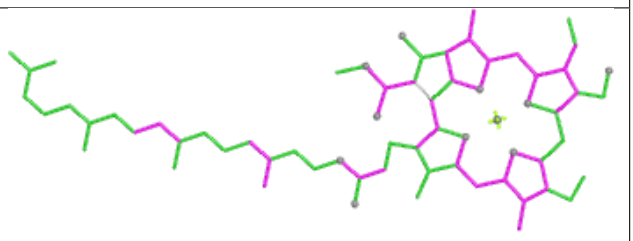


Rings

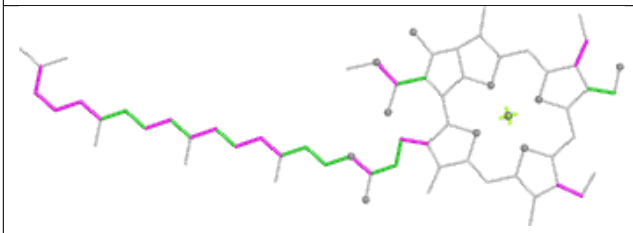
Ligand CHL 00 308



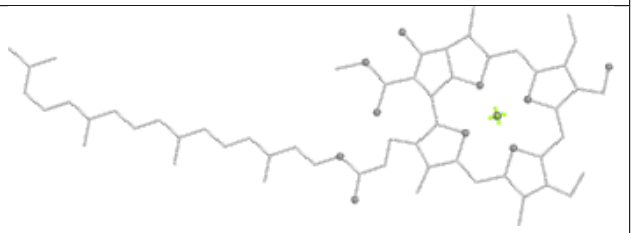
Bond lengths



Bond angles

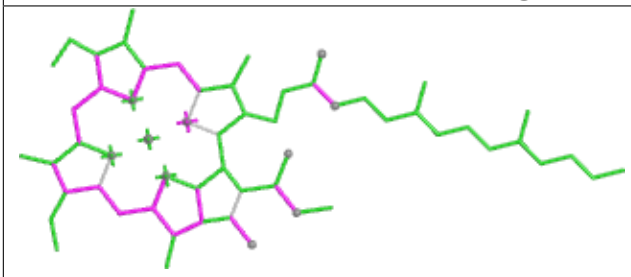


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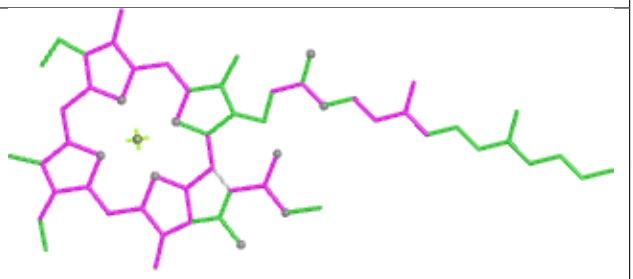


Rings

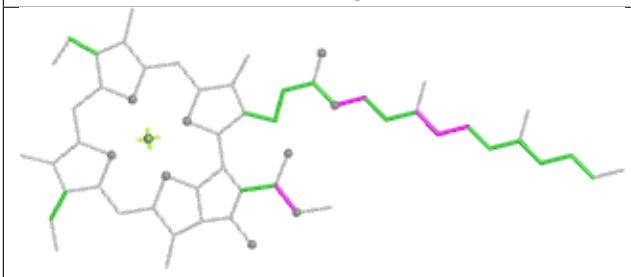
Ligand CLA 1C 507



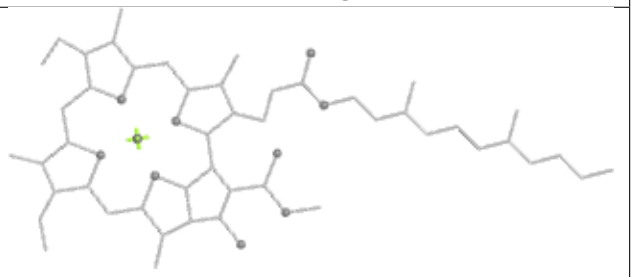
Bond lengths



Bond angles

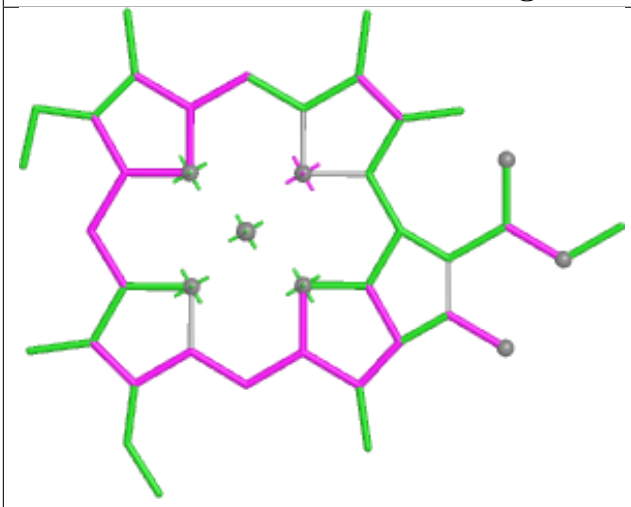


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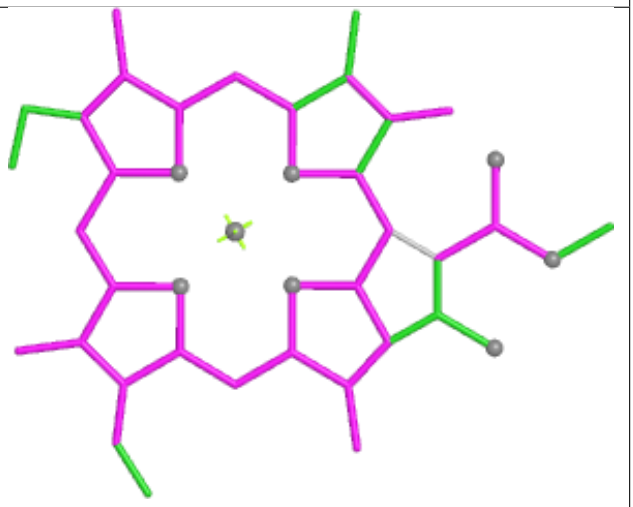


Rings

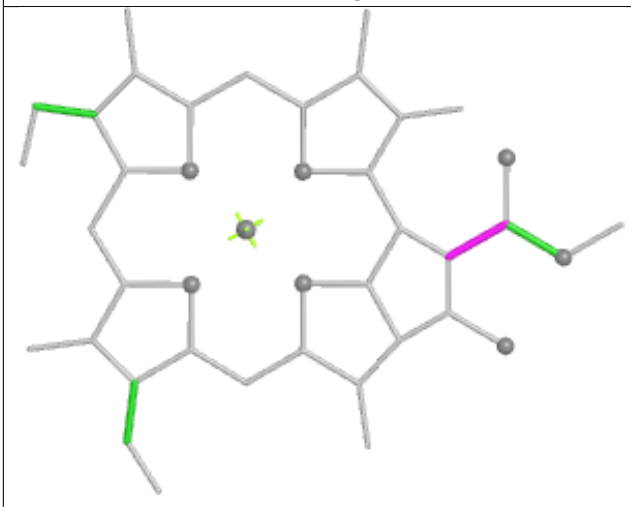
Ligand CLA 1S 312



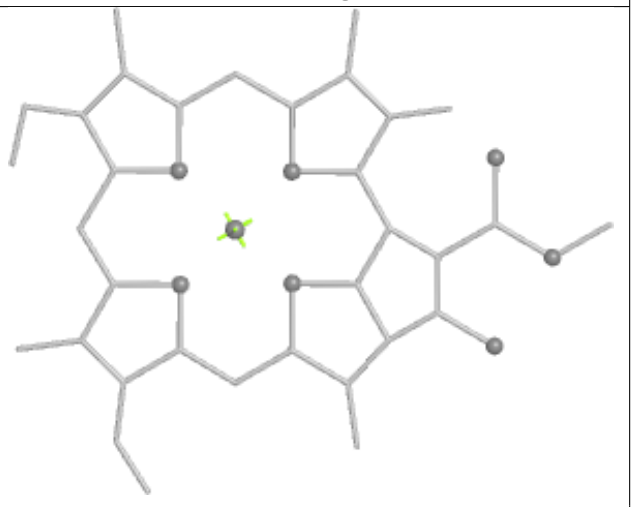
Bond lengths



Bond angles

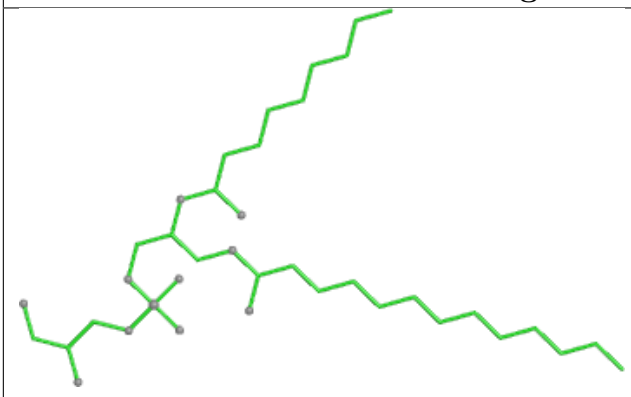


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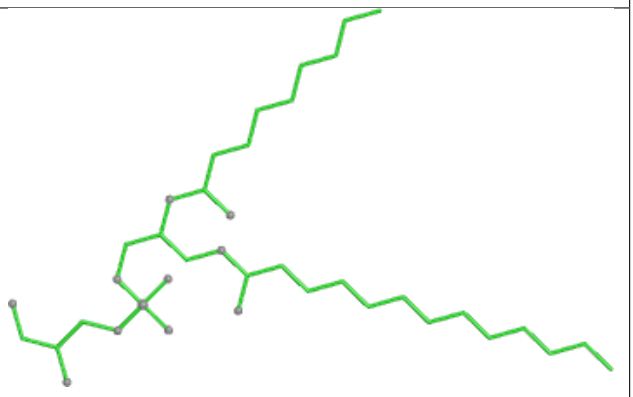


Rings

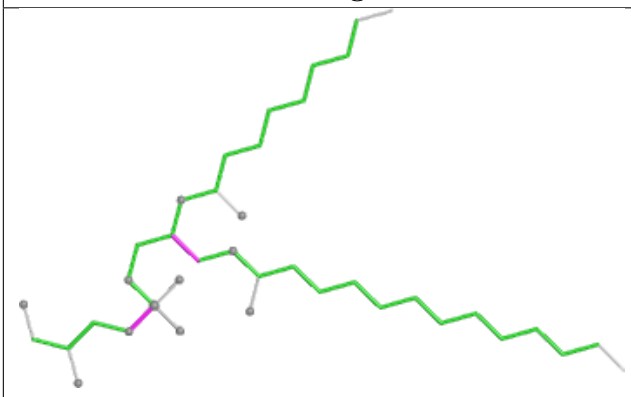
Ligand LHG 1I 103



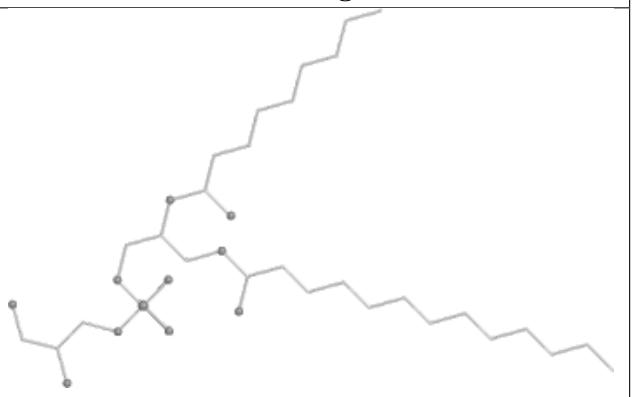
Bond lengths



Bond angles

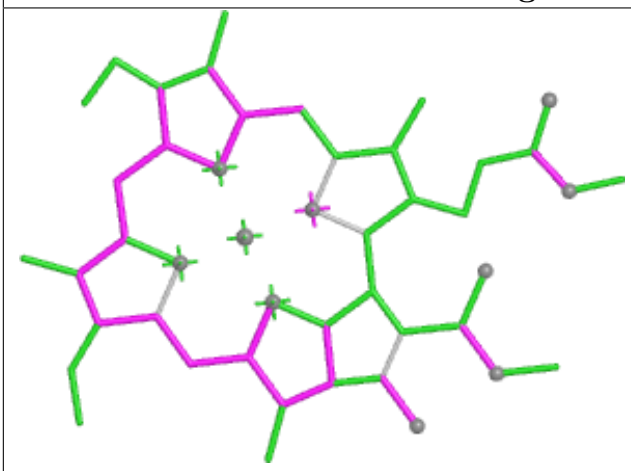


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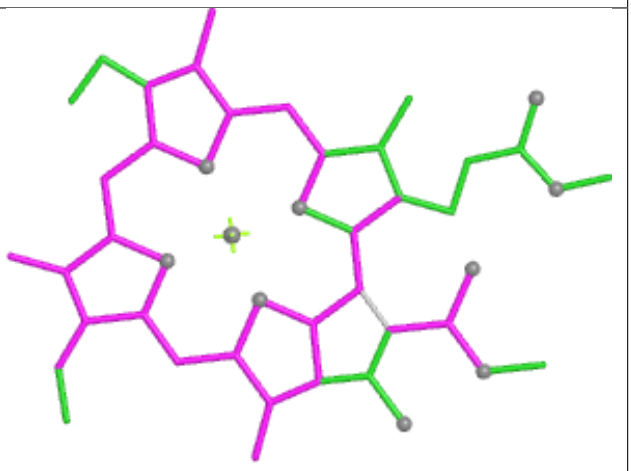


Rings

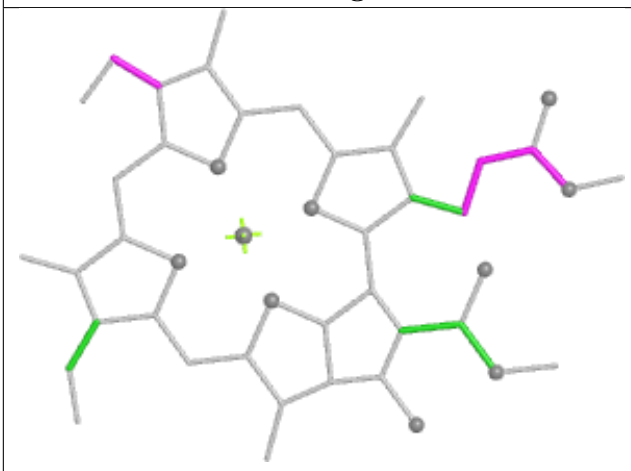
Ligand CLA 1S 316



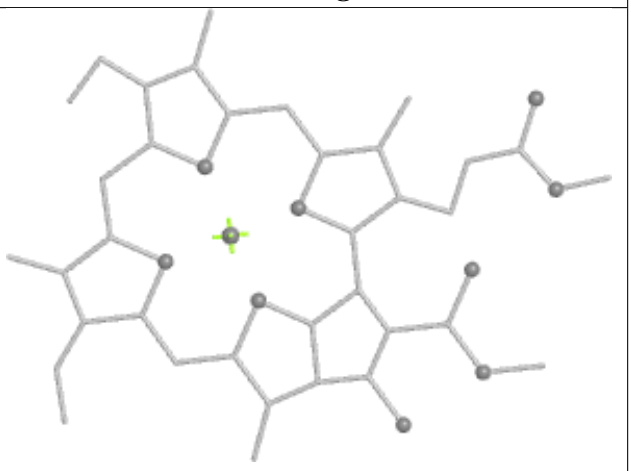
Bond lengths



Bond angles

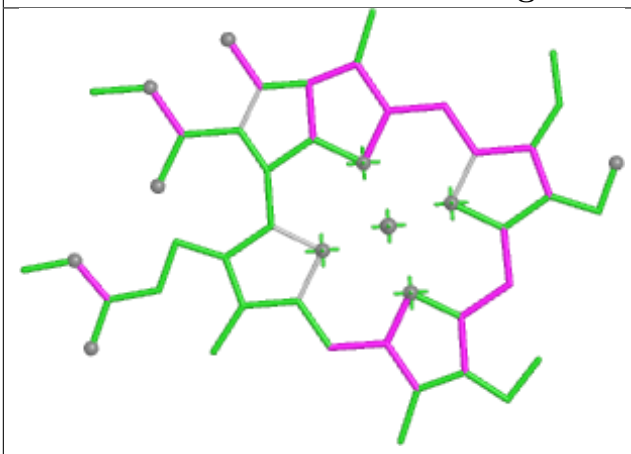


Torsions

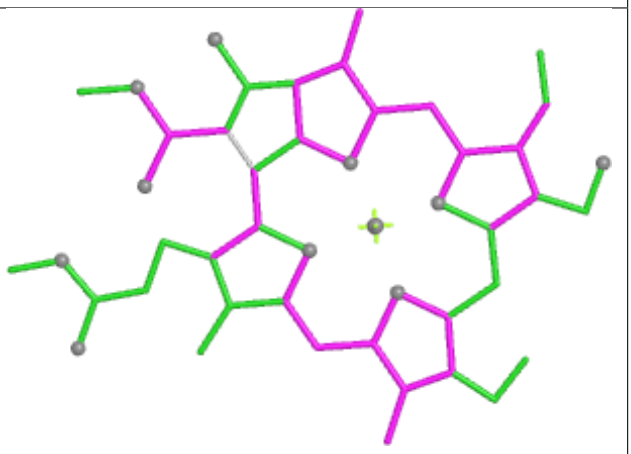


Rings

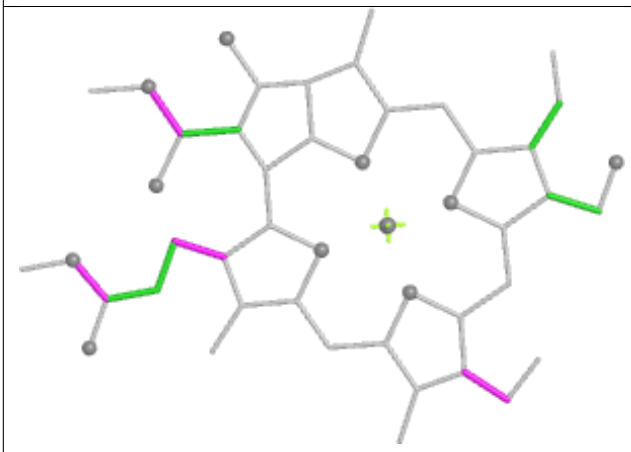
Ligand CHL 1n 606



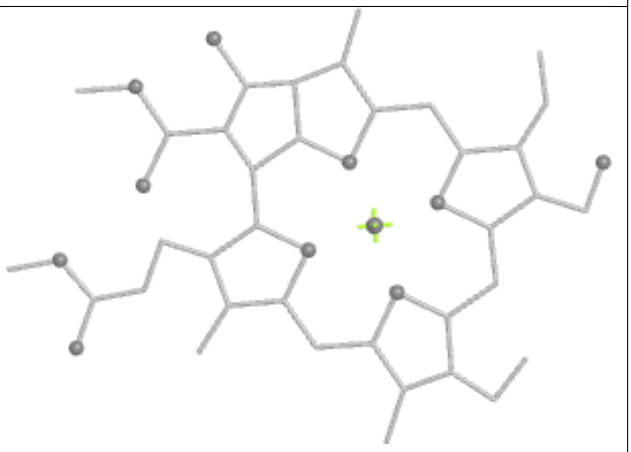
Bond lengths



Bond angles

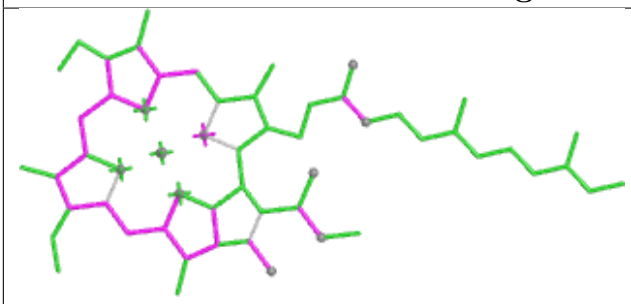


Torsions

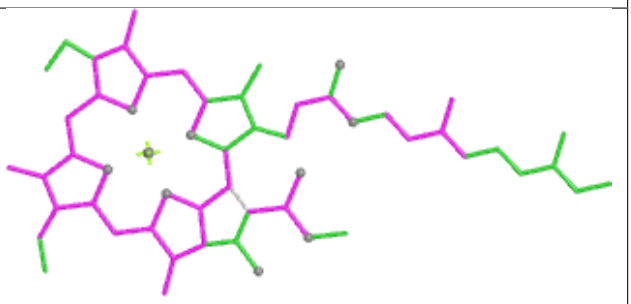


Rings

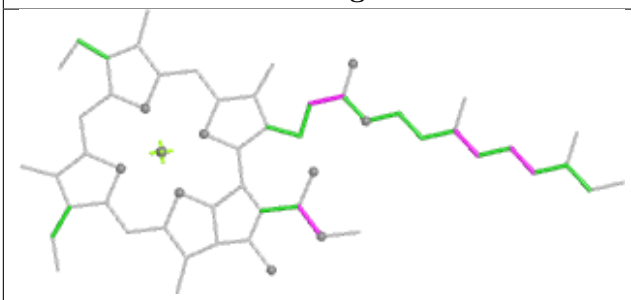
Ligand CLA 1C 503



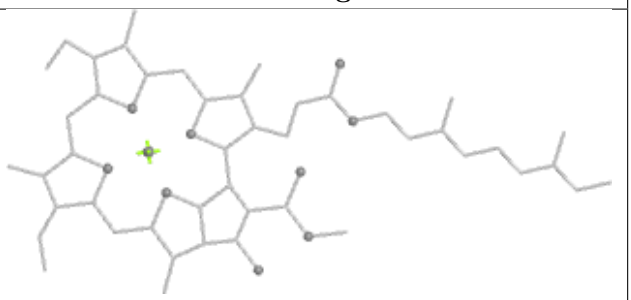
Bond lengths



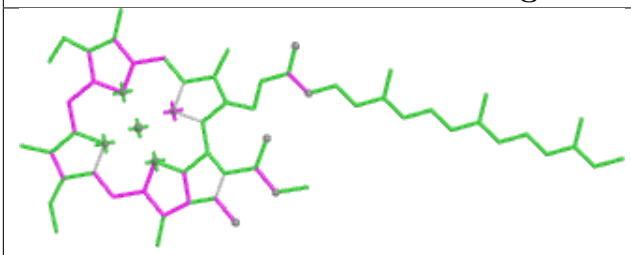
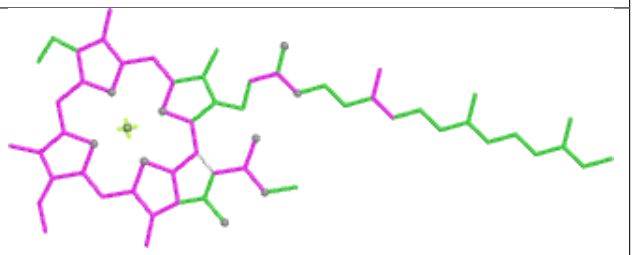
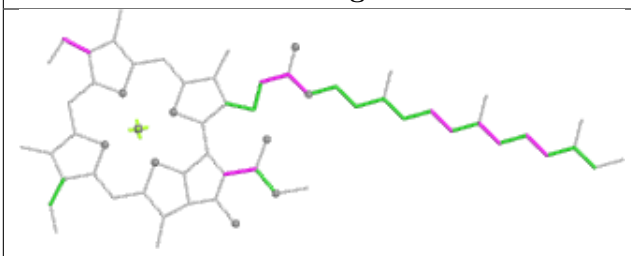
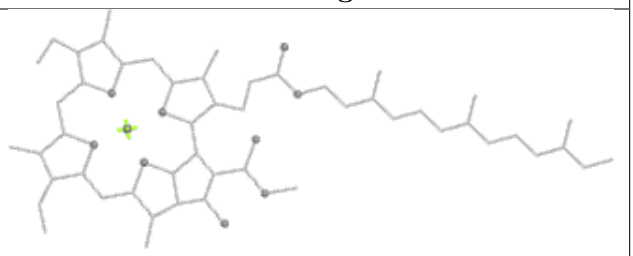
Bond angles



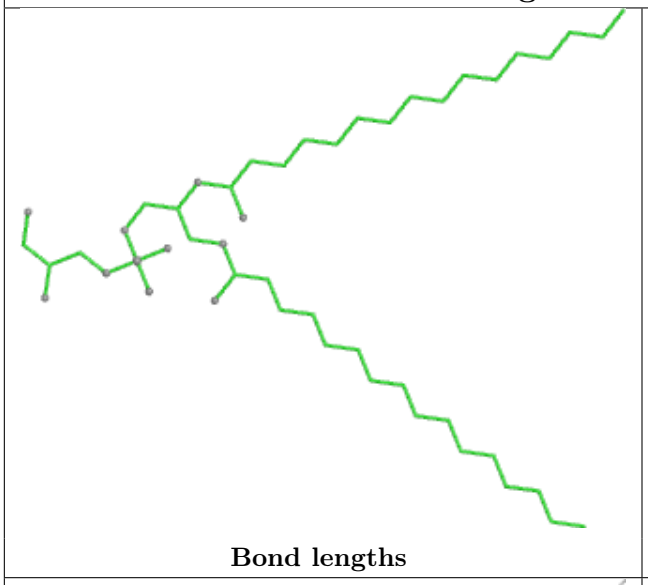
Torsions



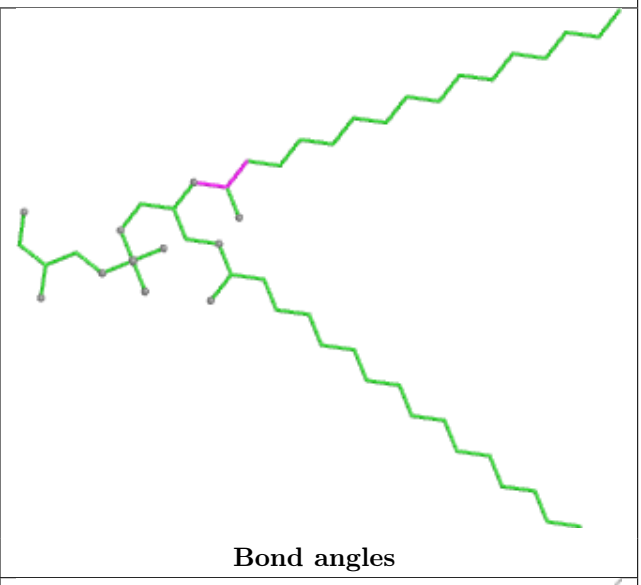
Rings

Ligand CLA 1c 514	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

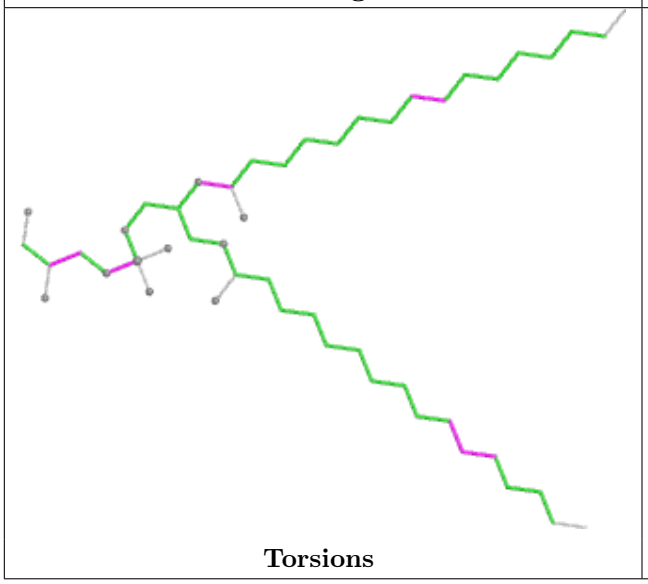
Ligand LHG 00 317



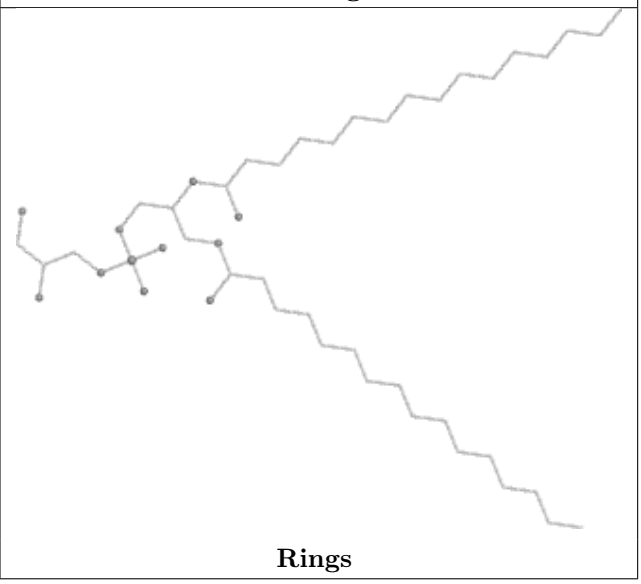
Bond lengths



Bond angles



Torsions



Rings

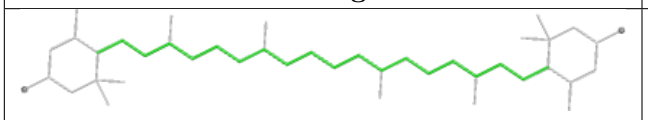
Ligand LUT 00 313



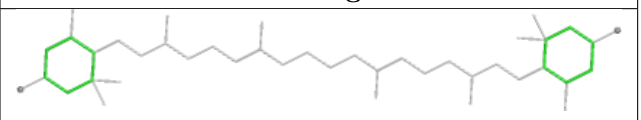
Bond lengths



Bond angles

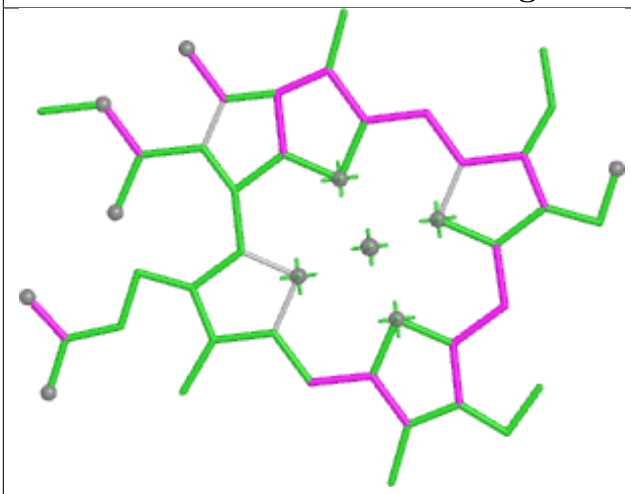


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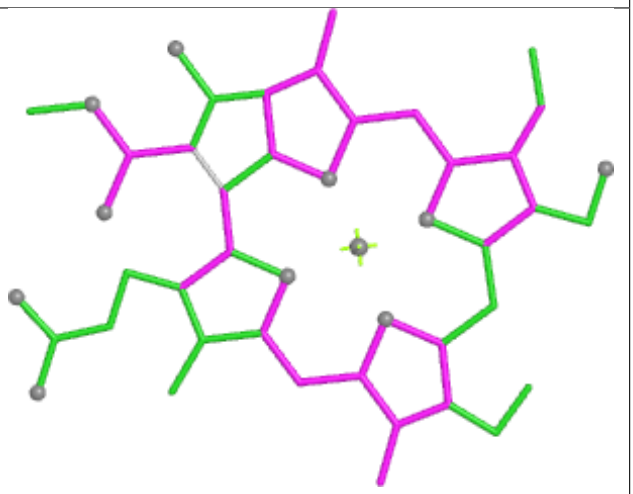


Rings

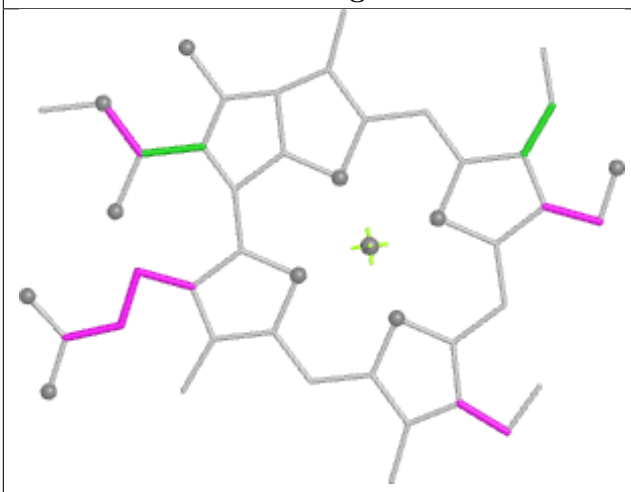
Ligand CHL 06 601



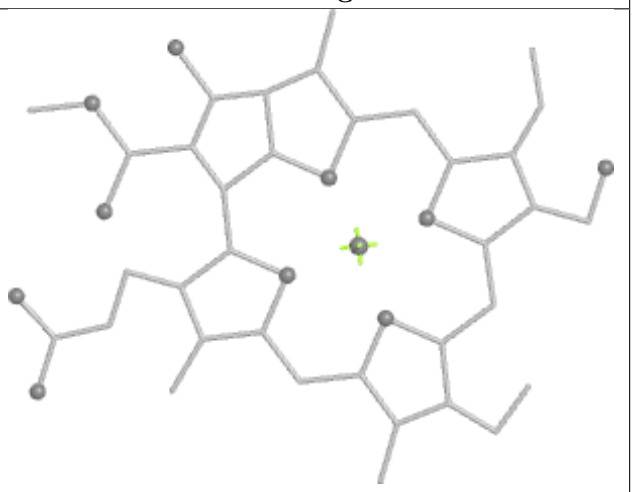
Bond lengths



Bond angles

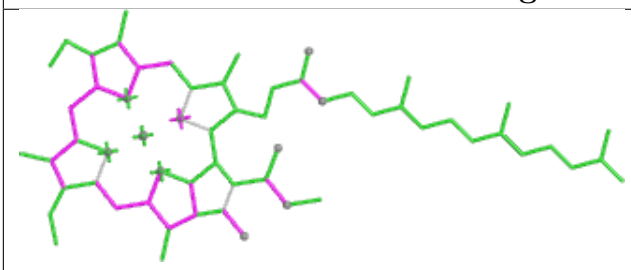


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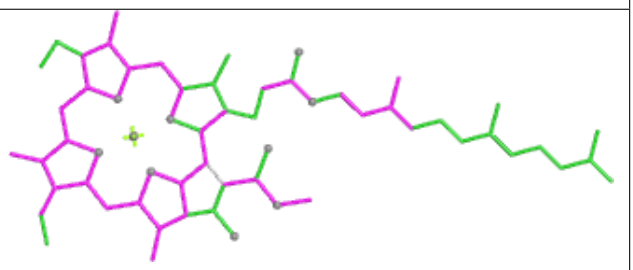


Rings

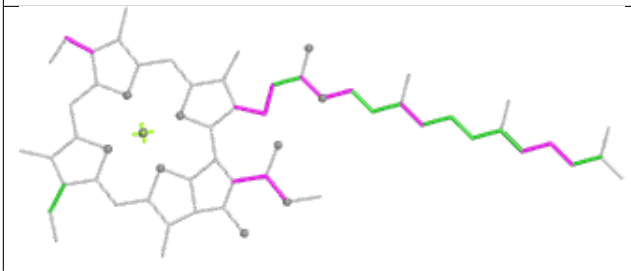
Ligand CLA 00 309



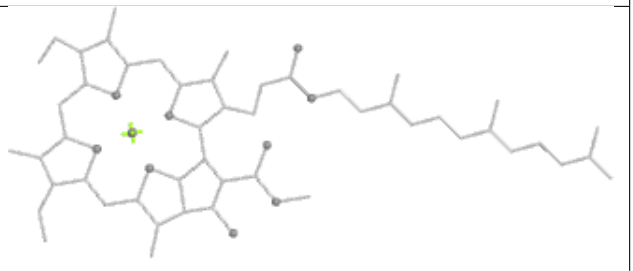
Bond lengths



Bond angles

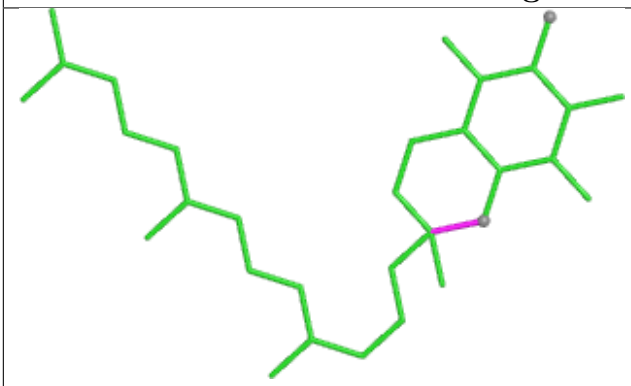


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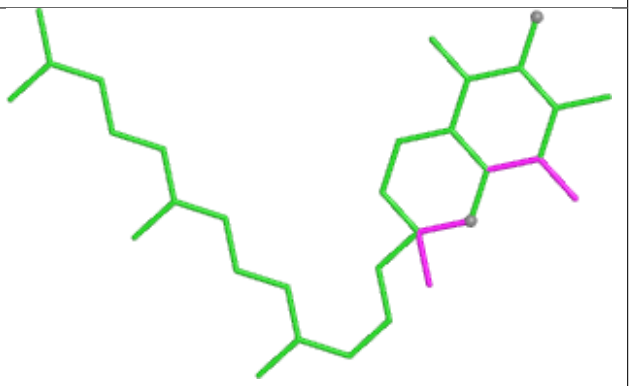


Rings

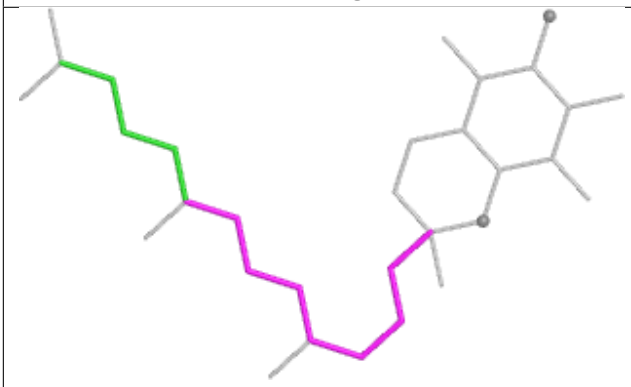
Ligand VIV 09 315



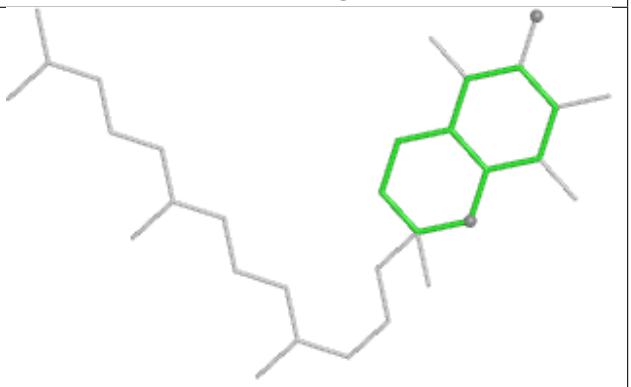
Bond lengths



Bond angles

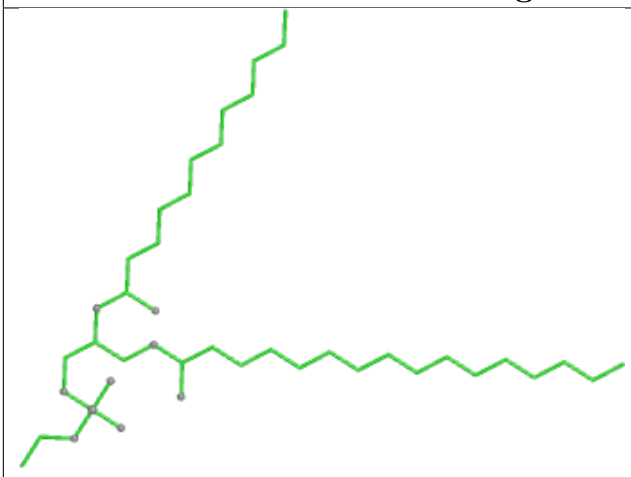


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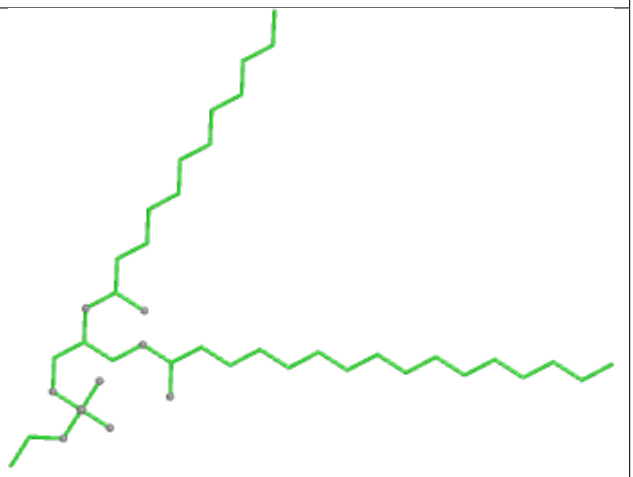


Rings

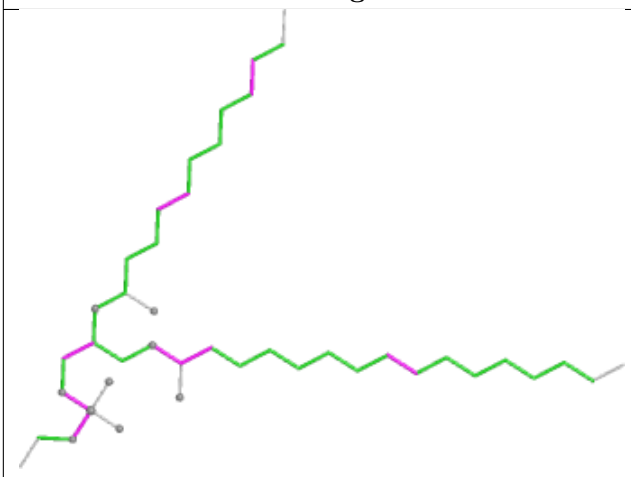
Ligand LHG 1F 101



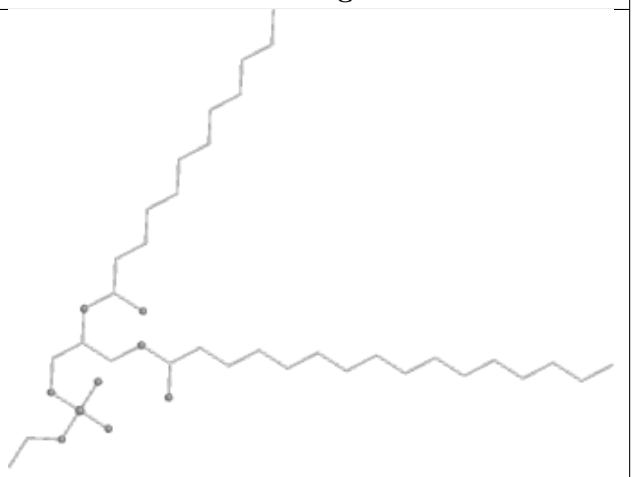
Bond lengths



Bond angles

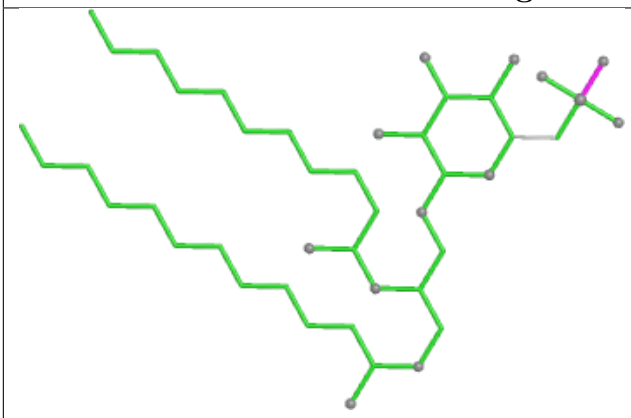


Torsions

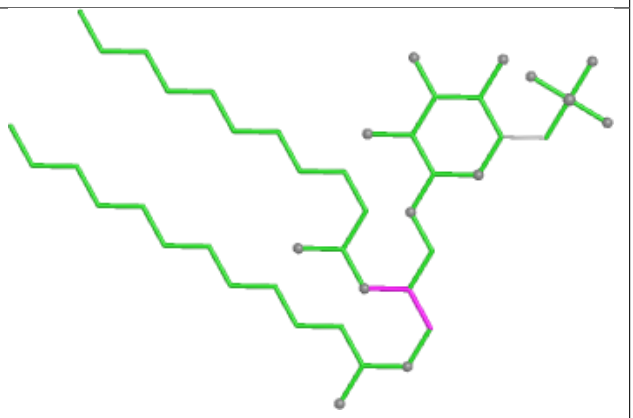


Rings

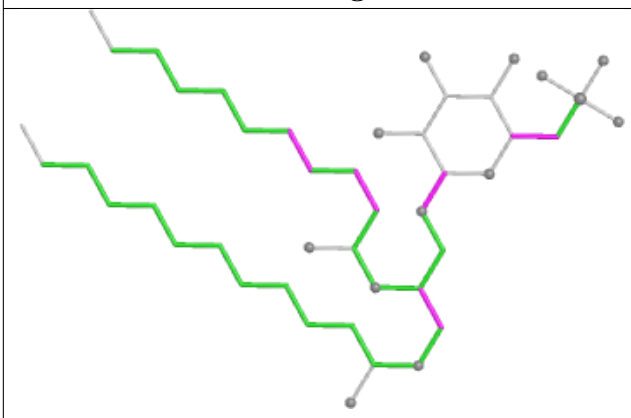
Ligand SQD 1B 620



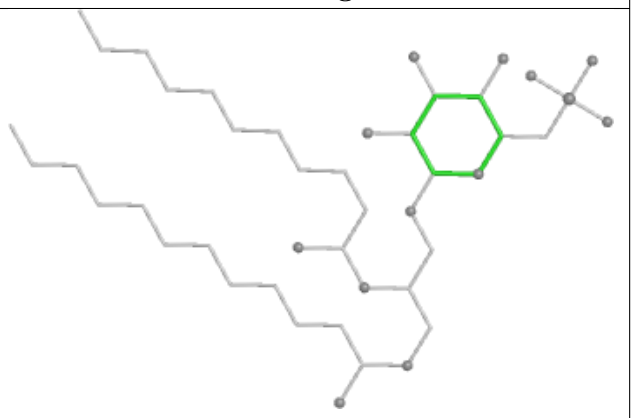
Bond lengths



Bond angles

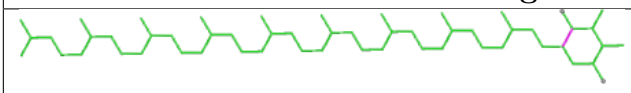


Torsions



Rings

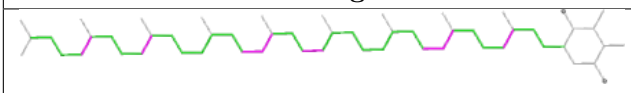
Ligand PL9 1A 410



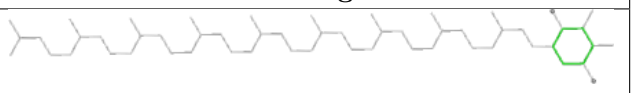
Bond lengths



Bond angles

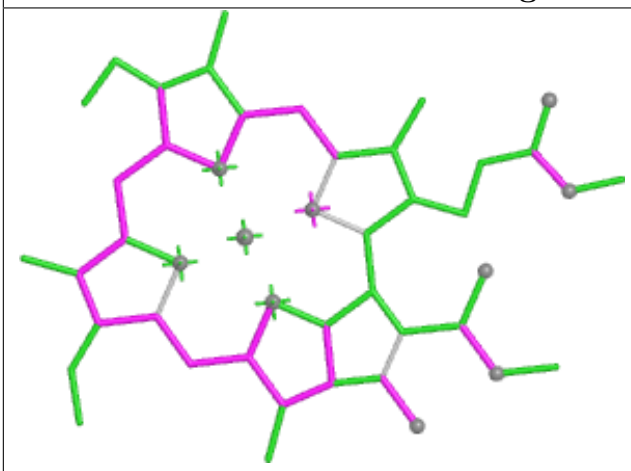


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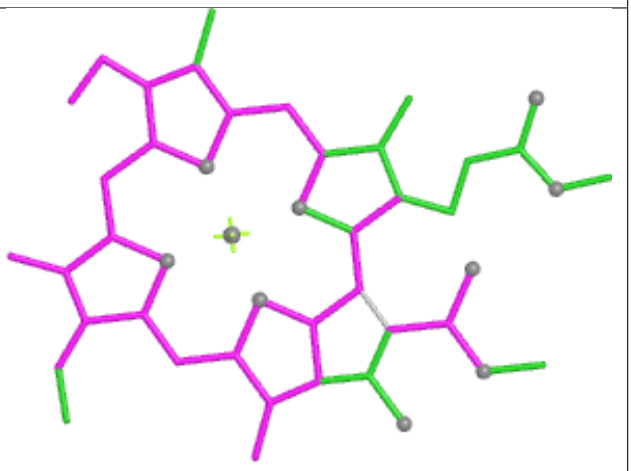


Rings

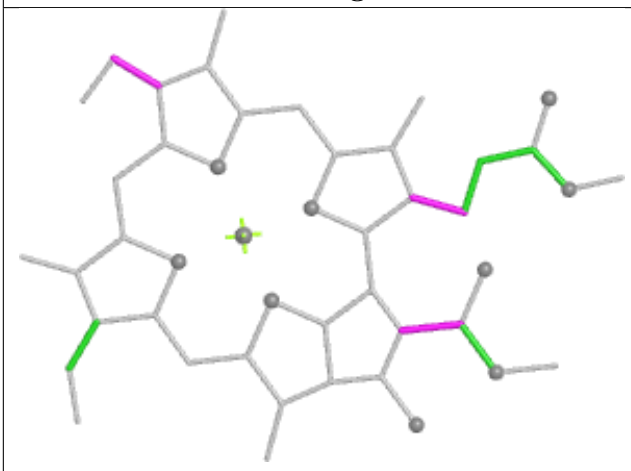
Ligand CLA 01 309



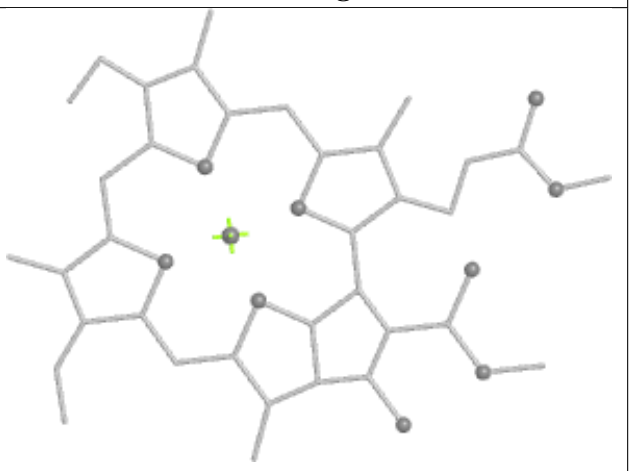
Bond lengths



Bond angles

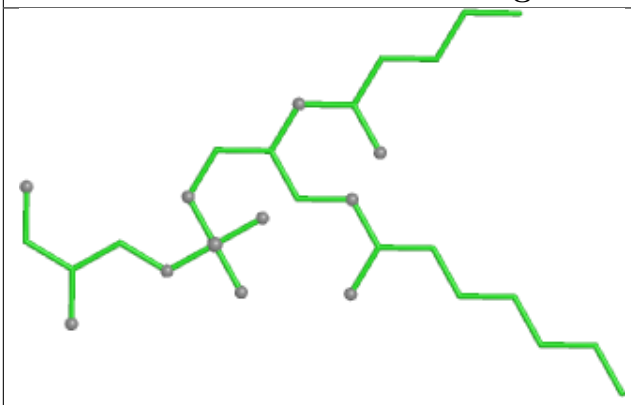


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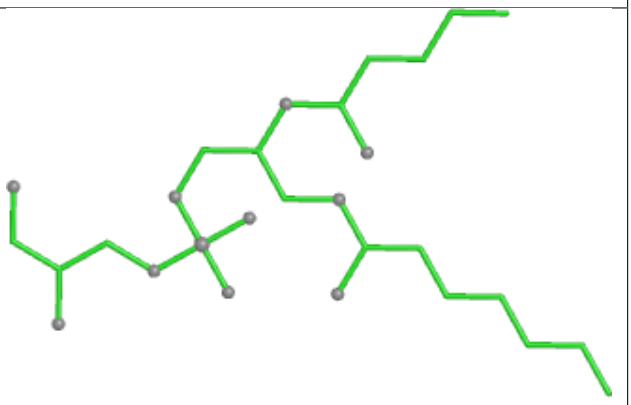


Rings

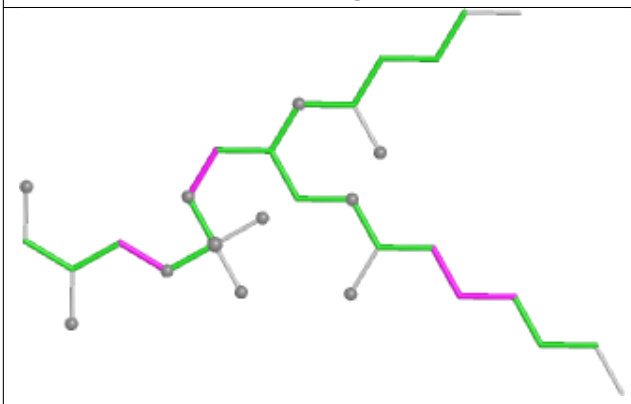
Ligand LHG 1C 519



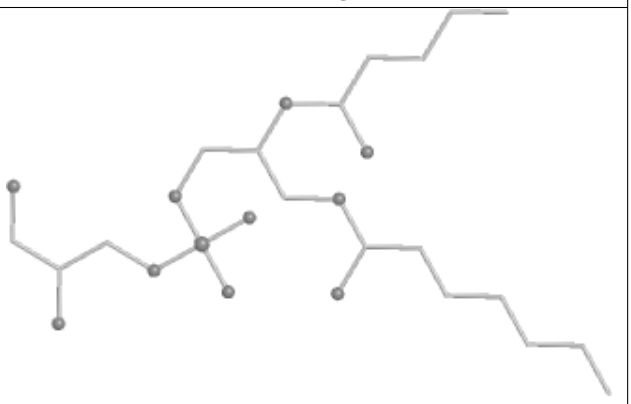
Bond lengths



Bond angles

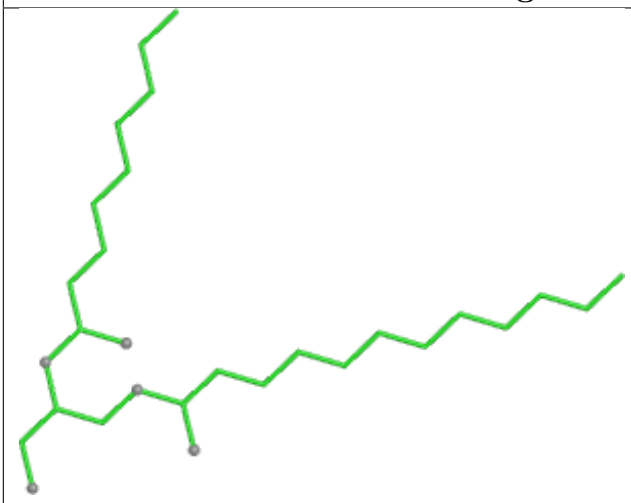


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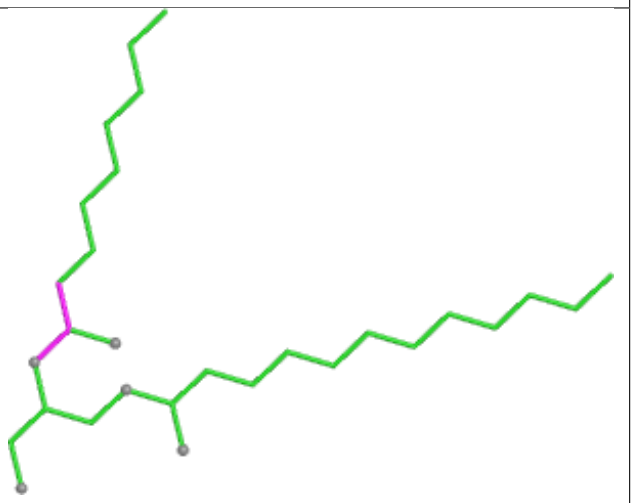


Rings

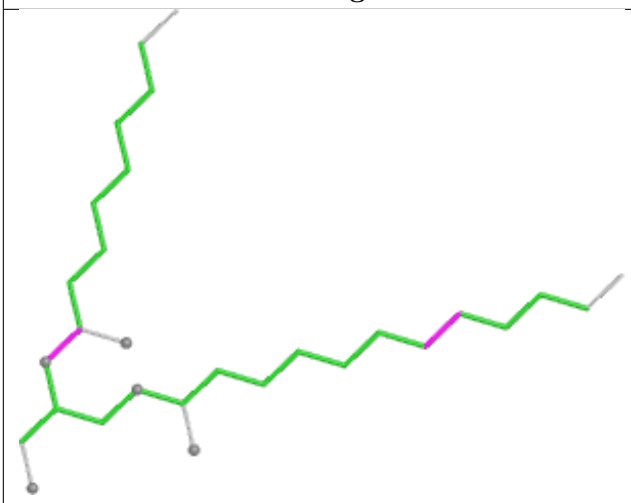
Ligand LHG 1S 303



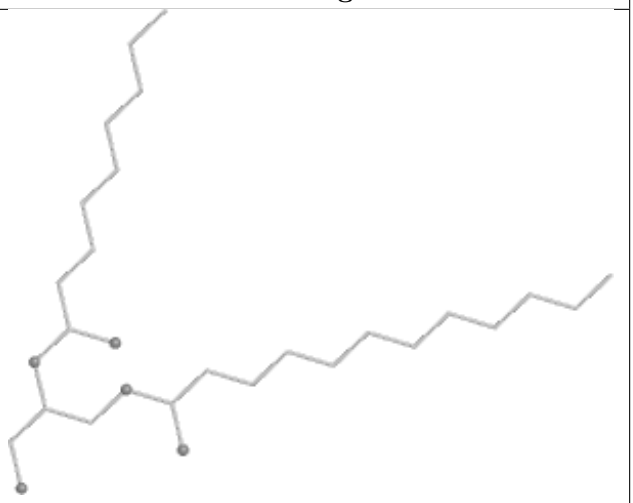
Bond lengths



Bond angles

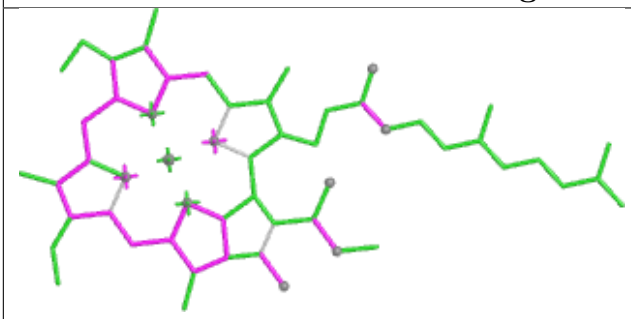


Torsions

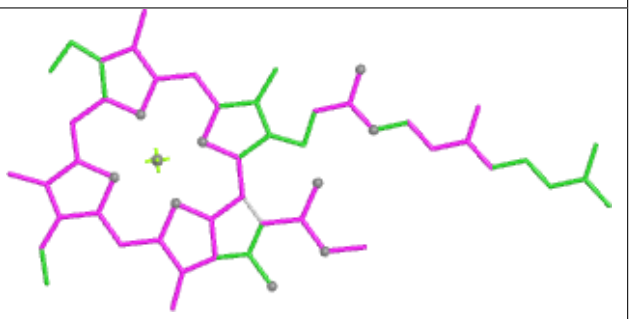


Rings

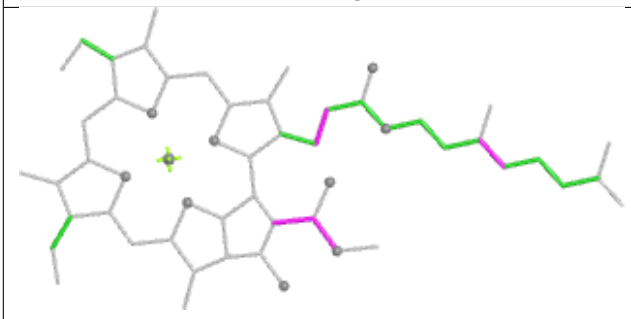
Ligand CLA 06 602



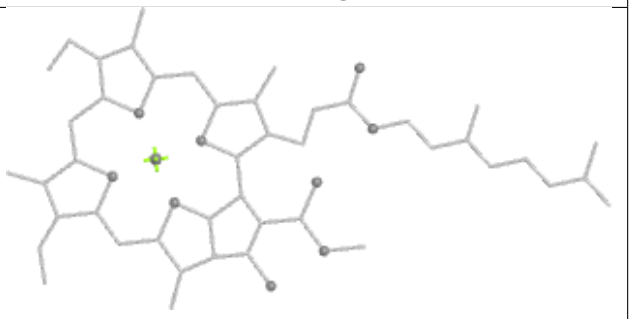
Bond lengths



Bond angles

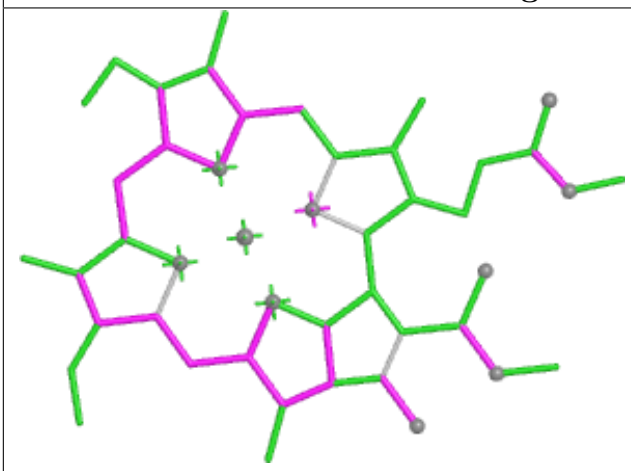


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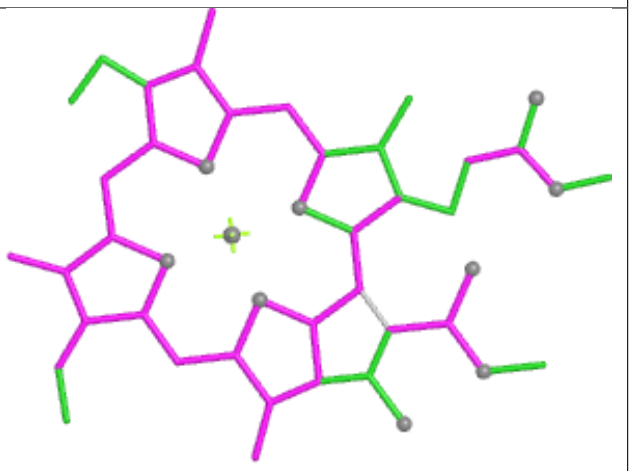


Rings

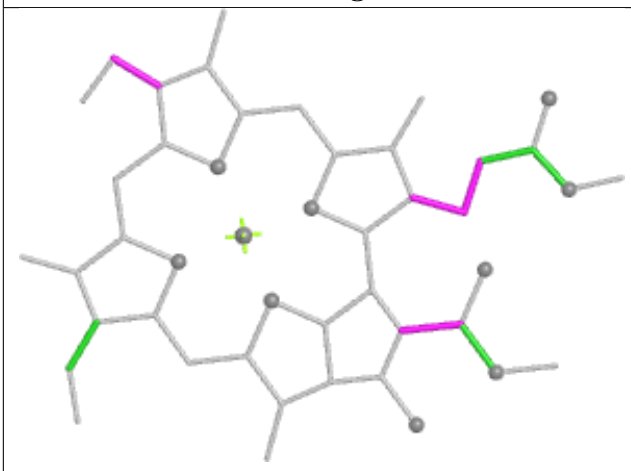
Ligand CLA 1s 316



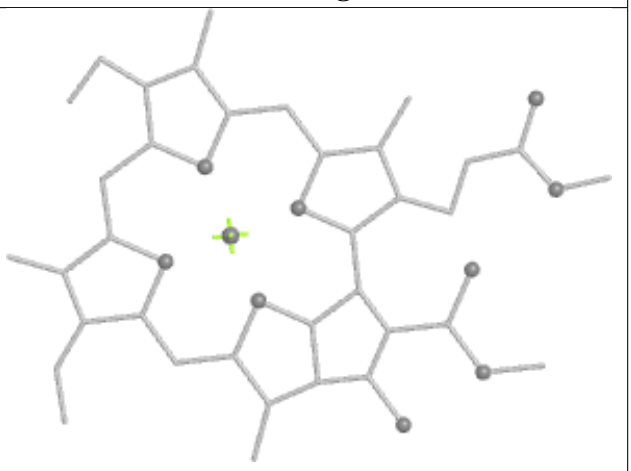
Bond lengths



Bond angles

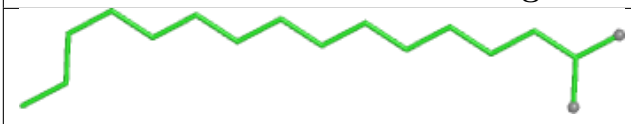


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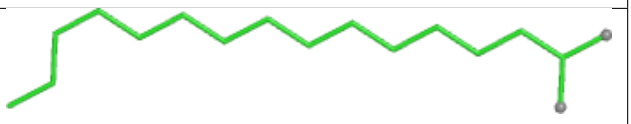


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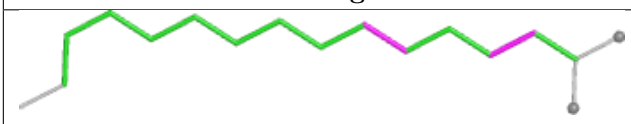
Ligand LNL 1c 501



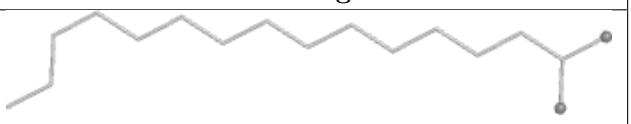
Bond lengths



Bond angles

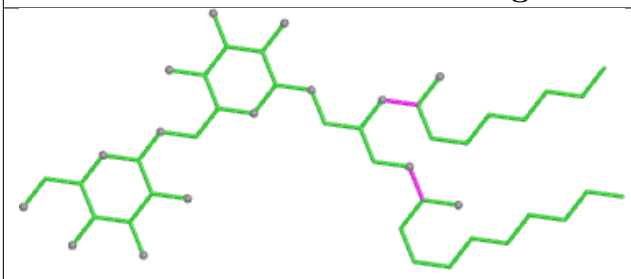


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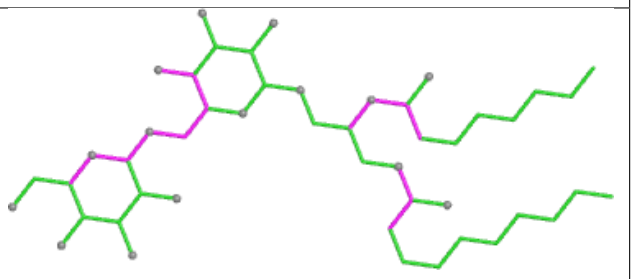


Rings

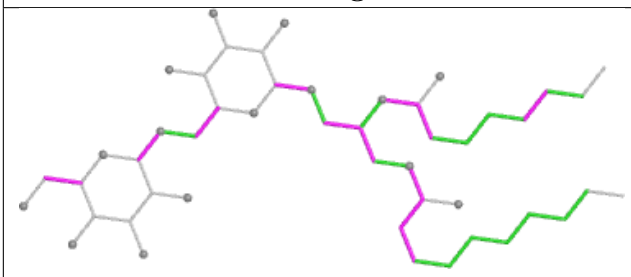
Ligand DGD 1B 626



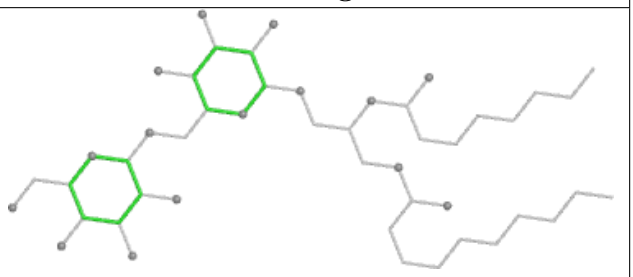
Bond lengths



Bond angles

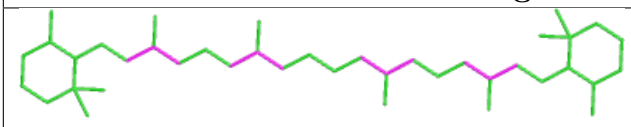


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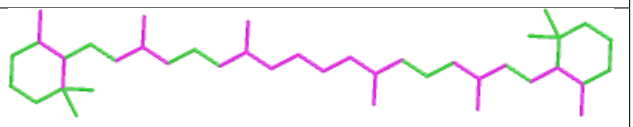


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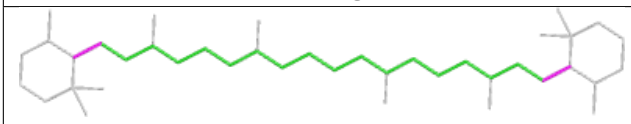
Ligand BCR 1B 618



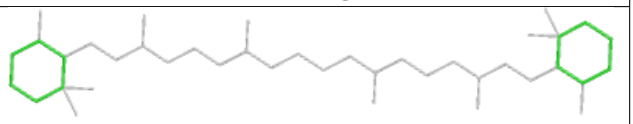
Bond lengths



Bond angles

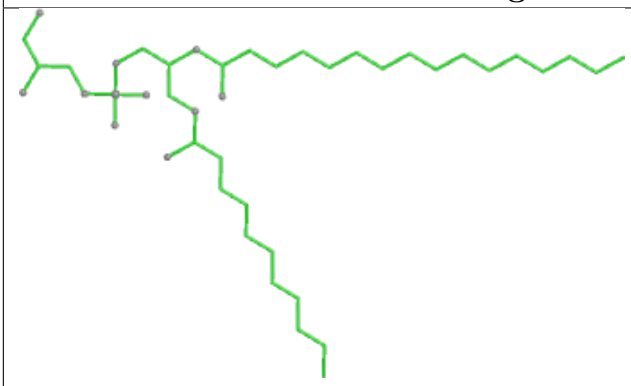


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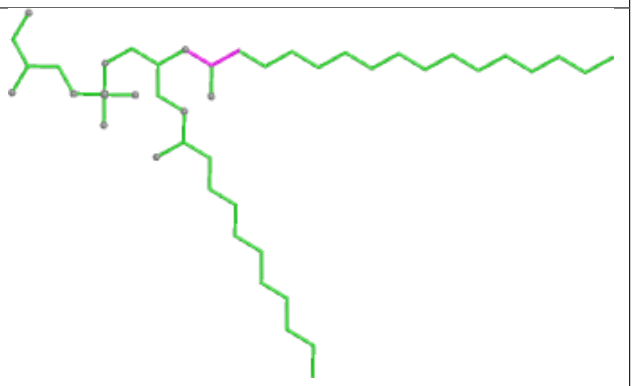


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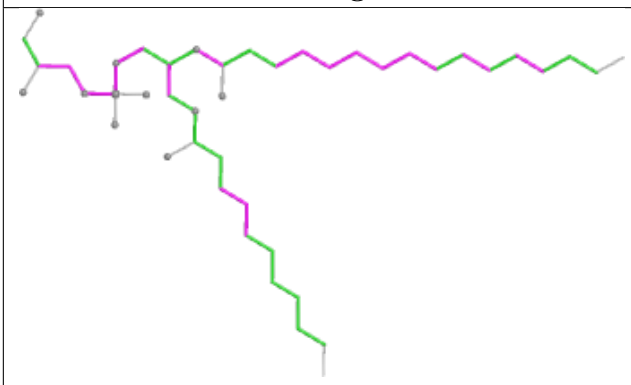
Ligand LHG 1W 102



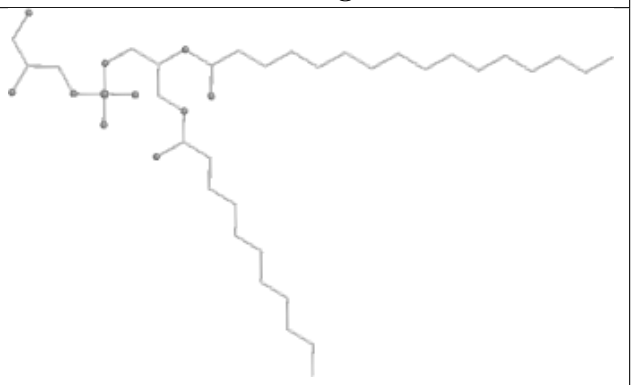
Bond lengths



Bond angles

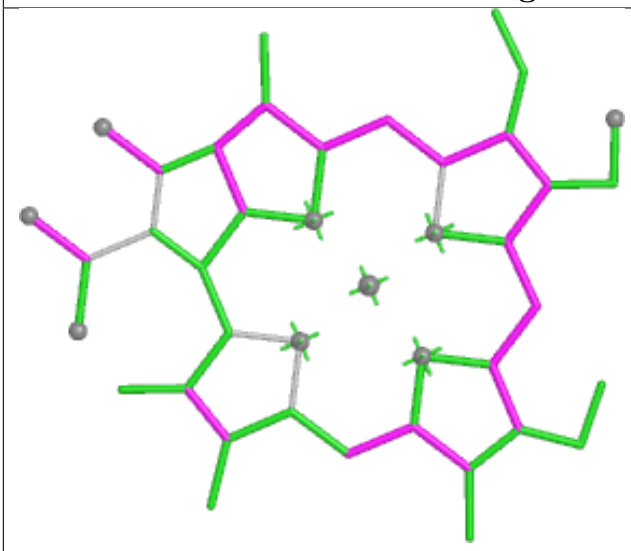


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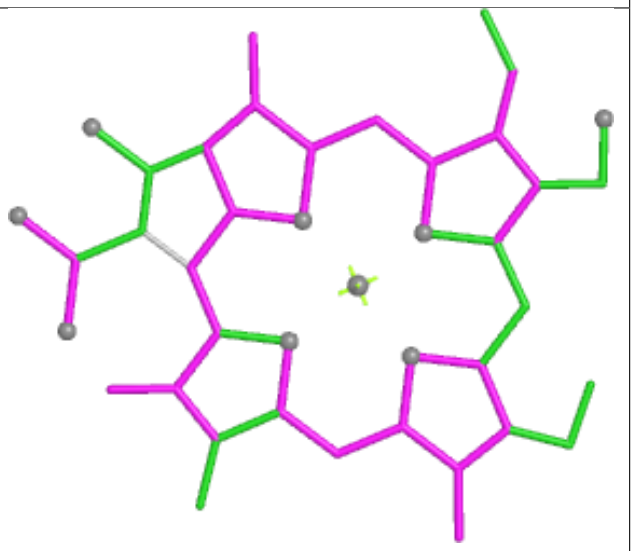


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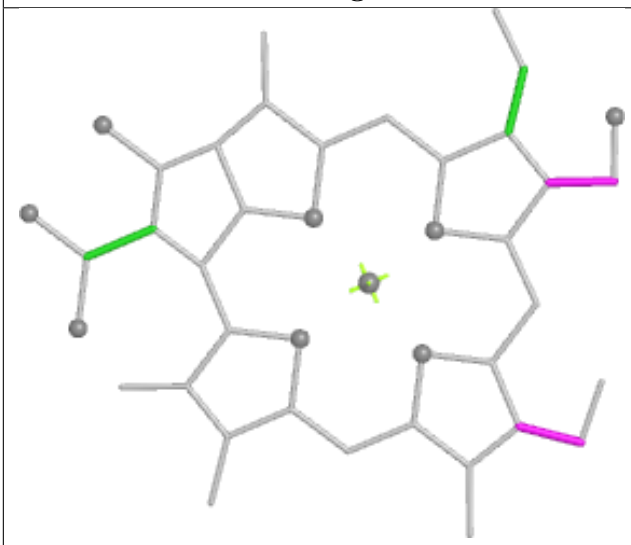
Ligand CHL 06 604



Bond lengths



Bond angles

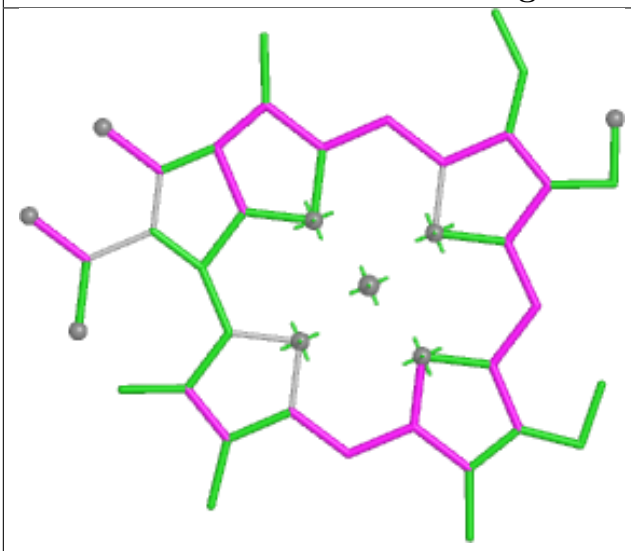


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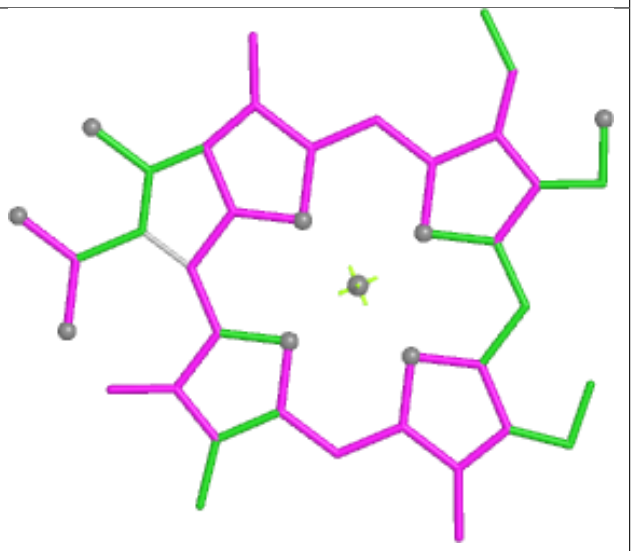


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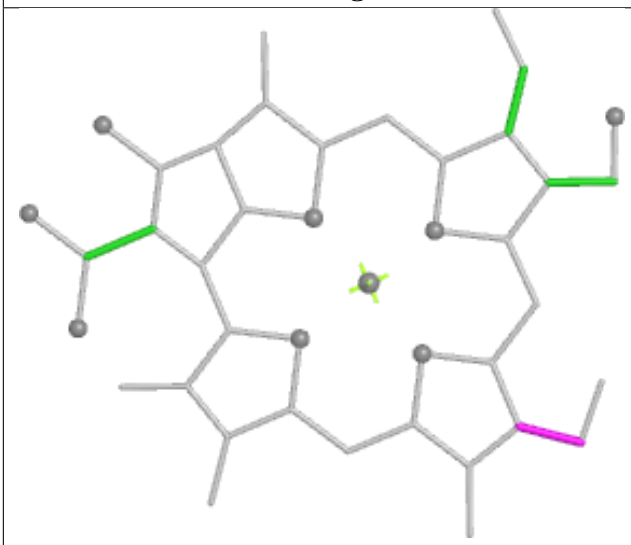
Ligand CHL 05 306



Bond lengths



Bond angles

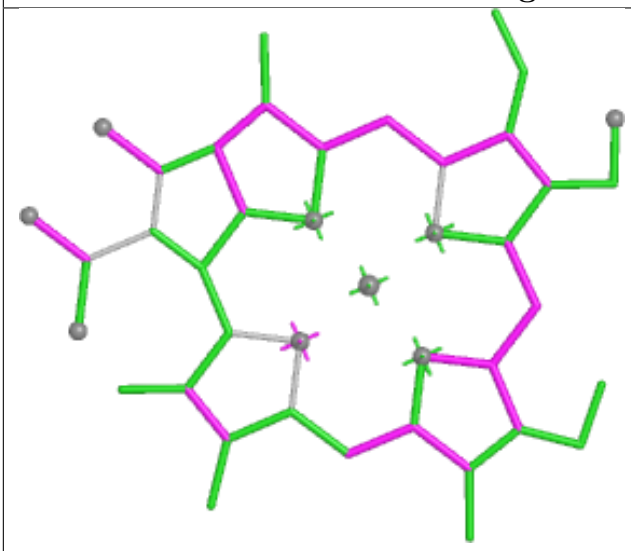


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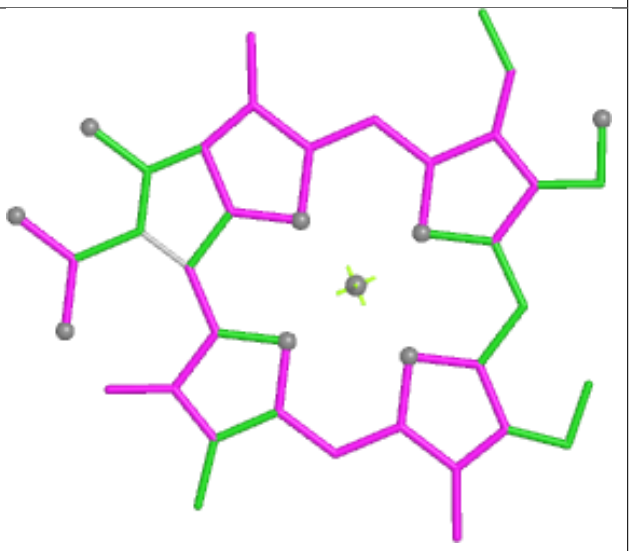


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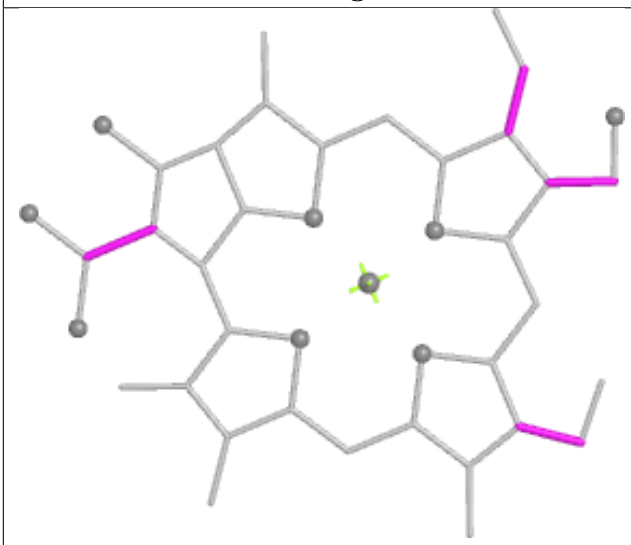
Ligand CHL 07 311



Bond lengths



Bond angles

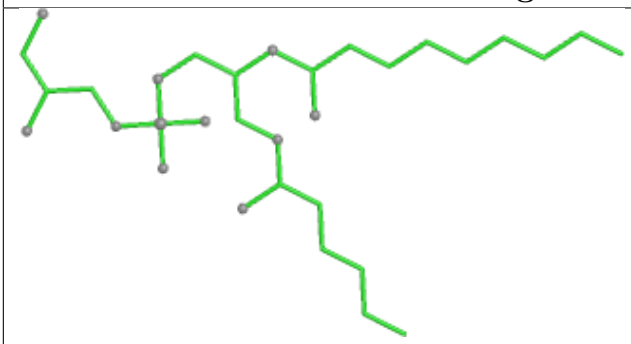


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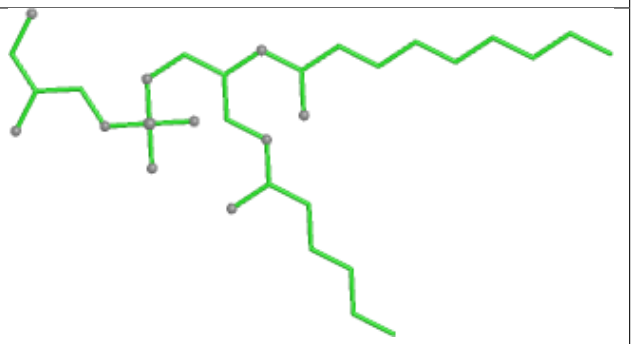


Rings

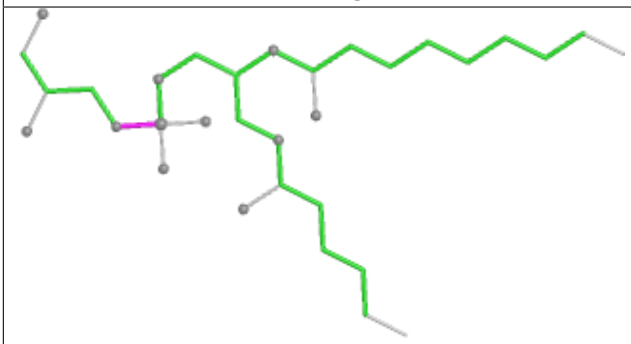
Ligand LHG 1b 626



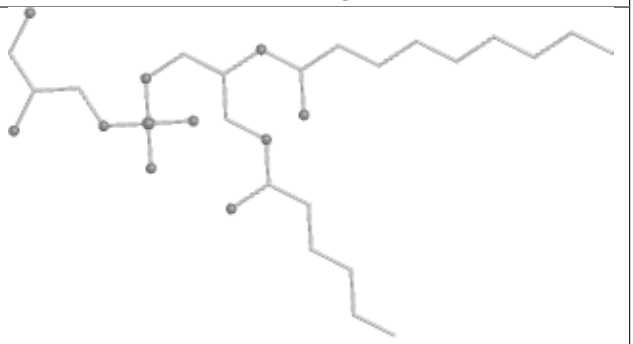
Bond lengths



Bond angles

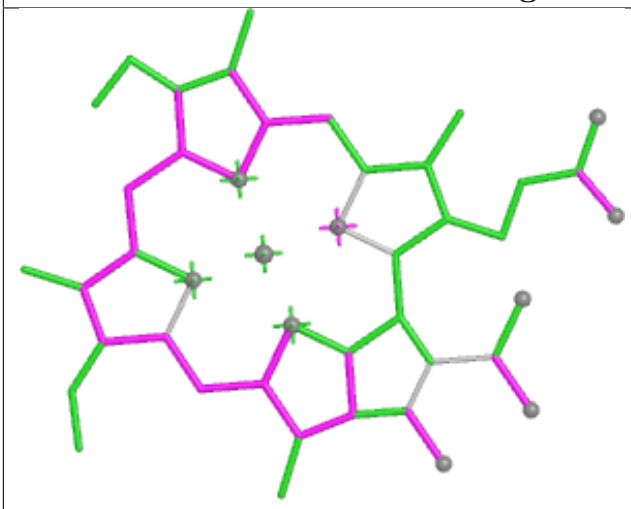


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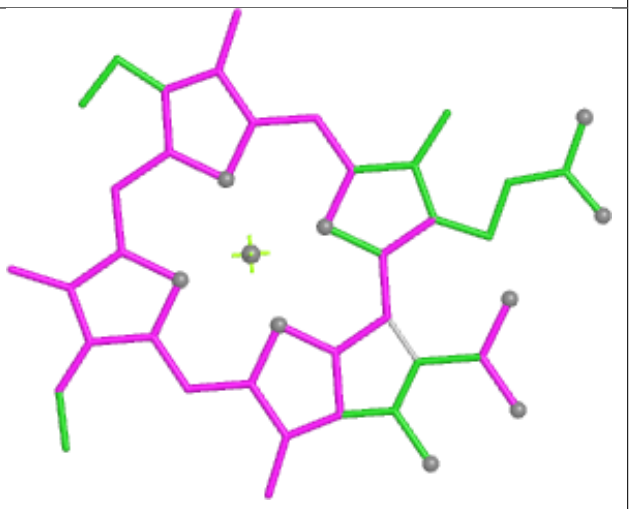


Rings

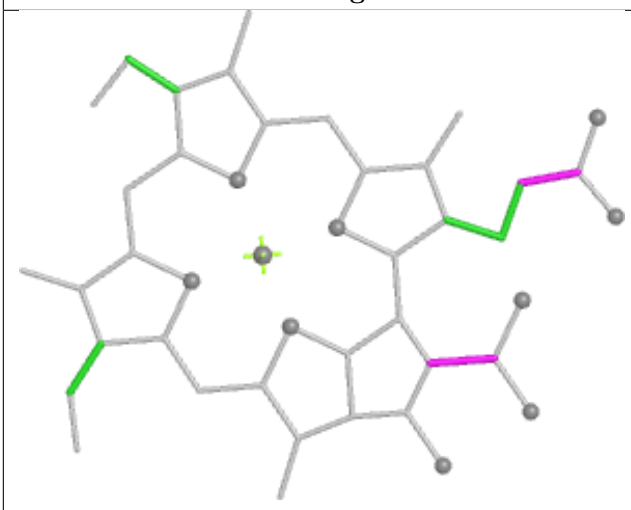
Ligand CLA 02 602



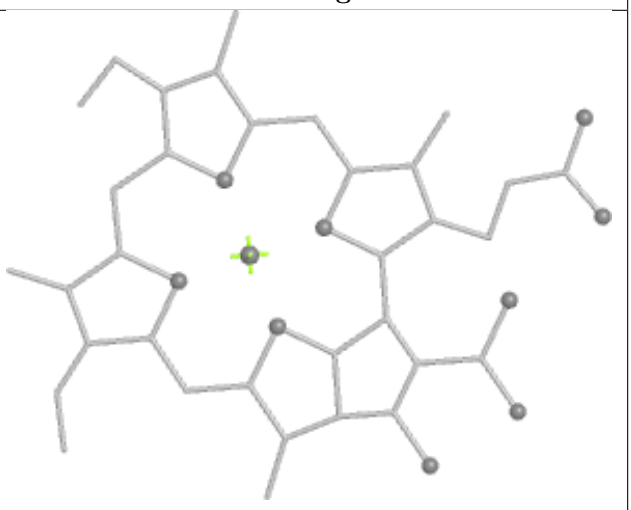
Bond lengths



Bond angles

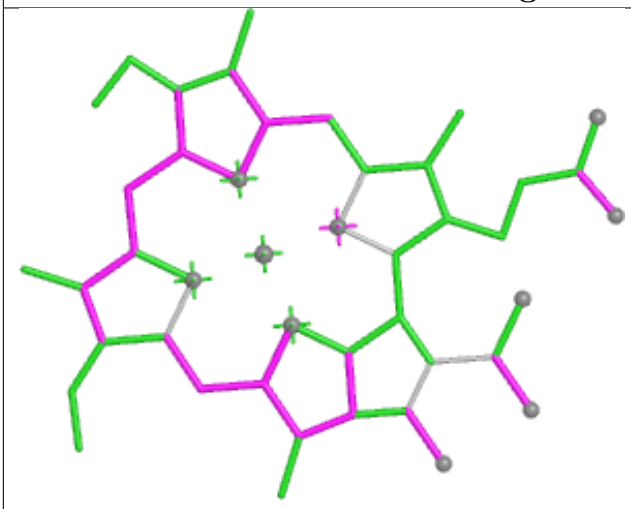


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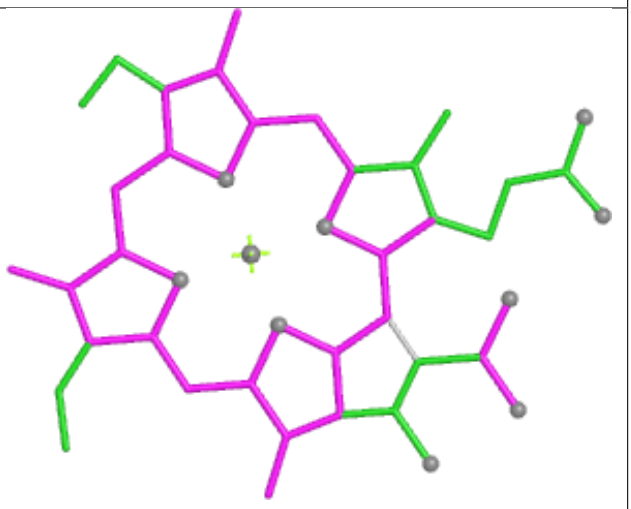


Rings

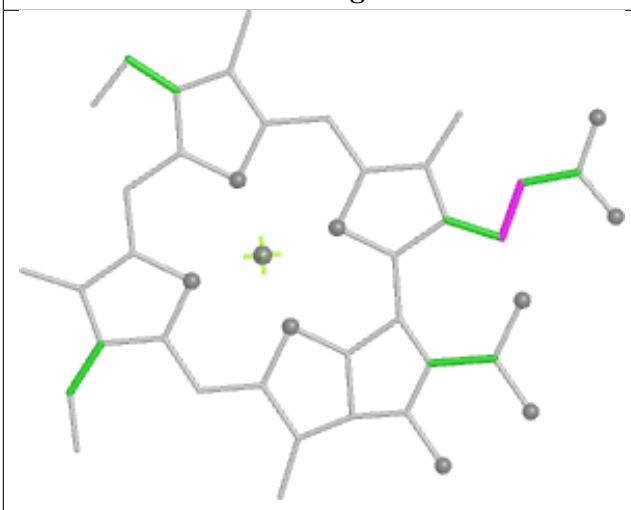
Ligand CLA 02 612



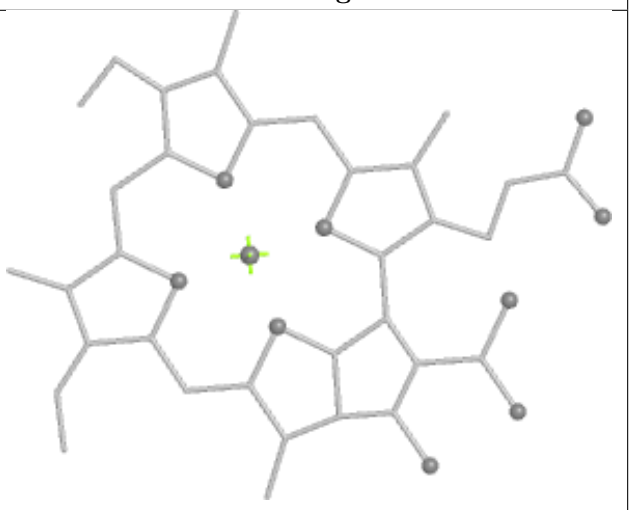
Bond lengths



Bond angles

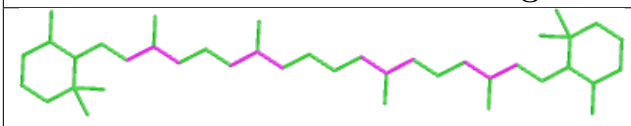


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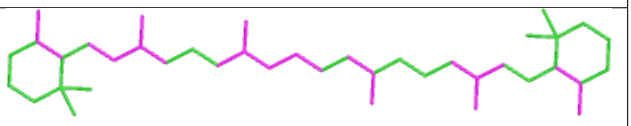


Rings

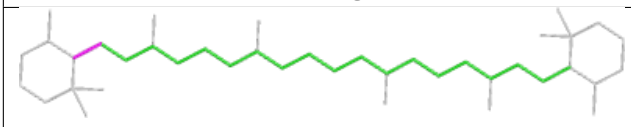
Ligand BCR 1i 101



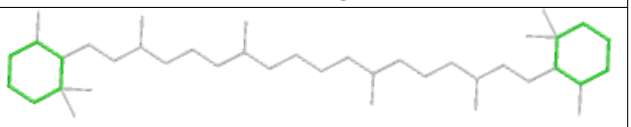
Bond lengths



Bond angles

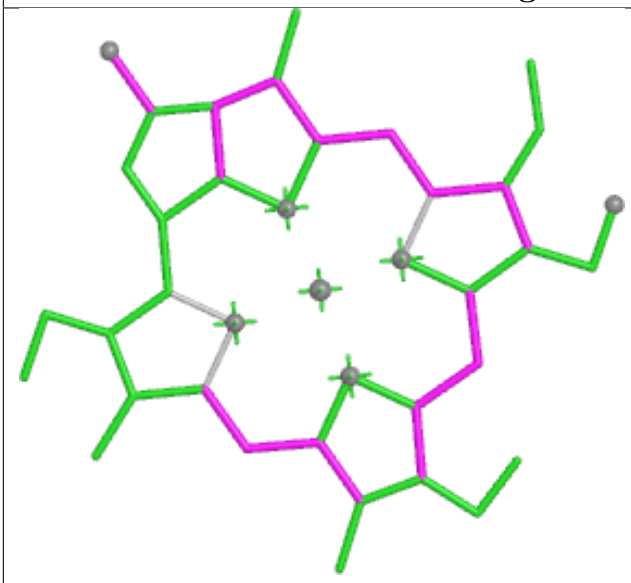


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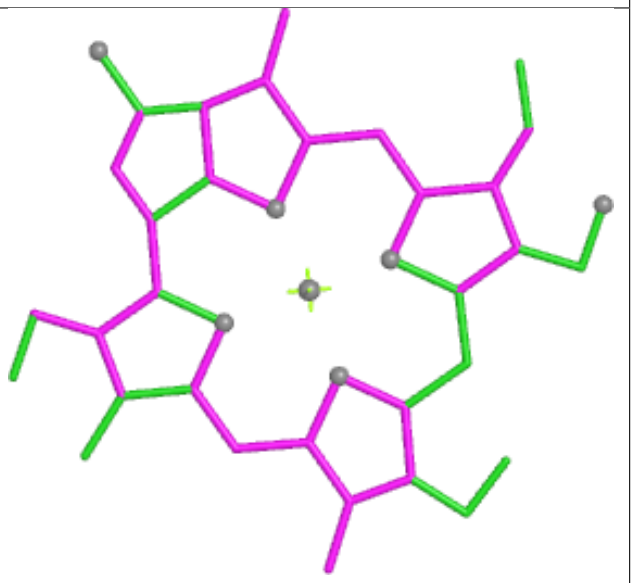


Rings

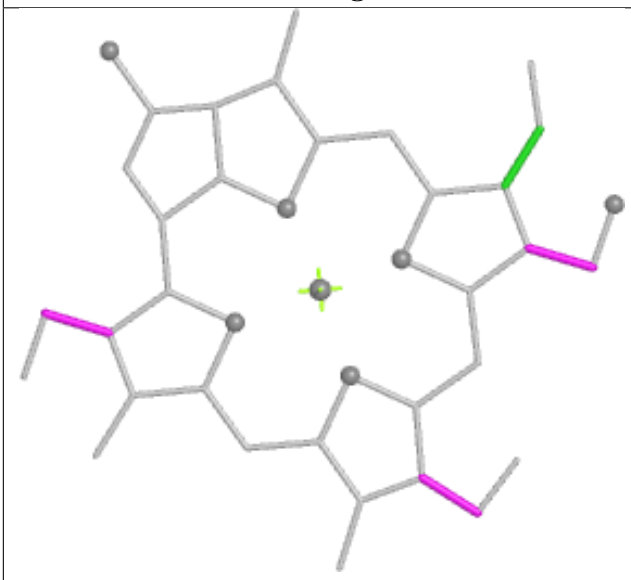
Ligand CHL 08 305



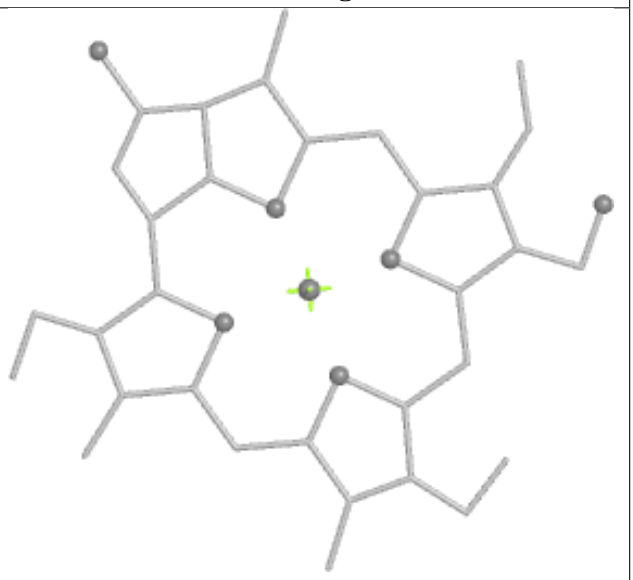
Bond lengths



Bond angles

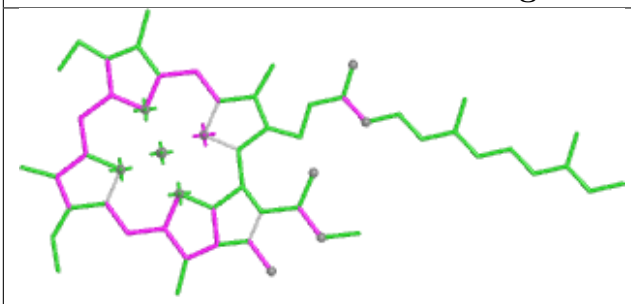


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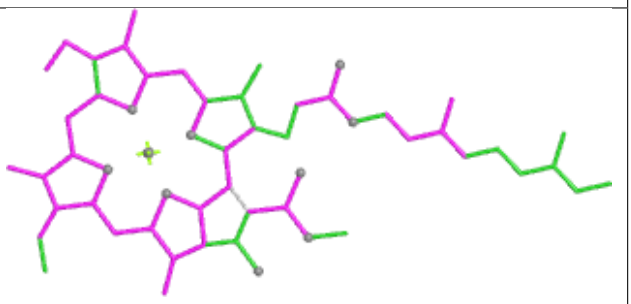


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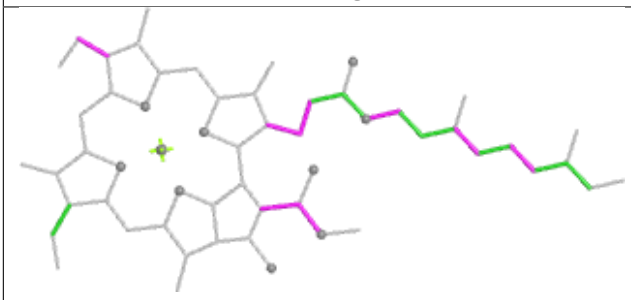
Ligand CLA 01 307



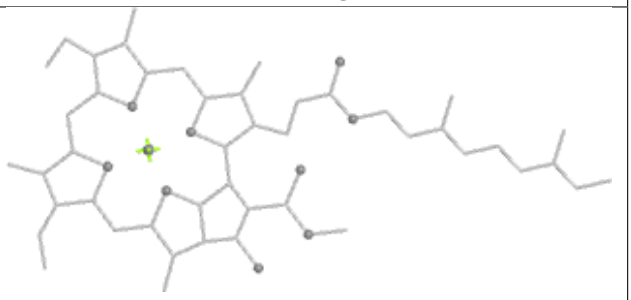
Bond lengths



Bond angles

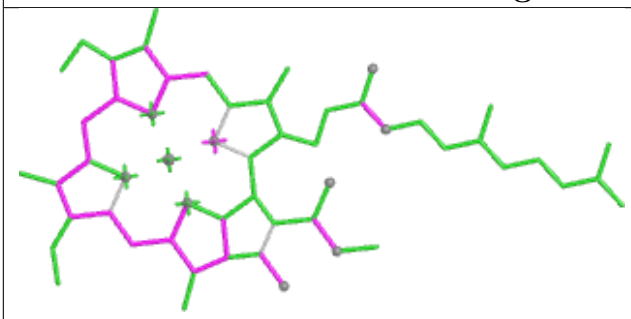


Torsions

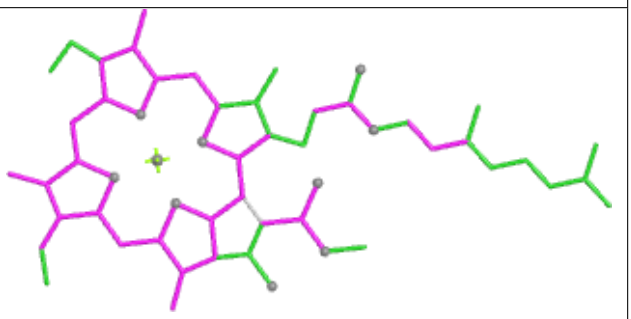


Rings

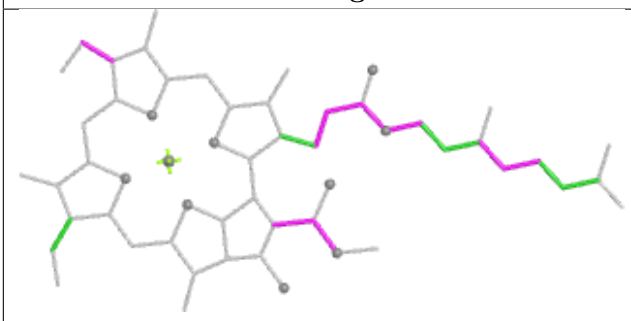
Ligand CLA 1G 612



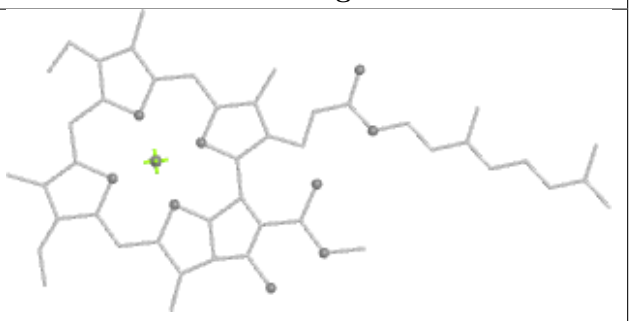
Bond lengths



Bond angles

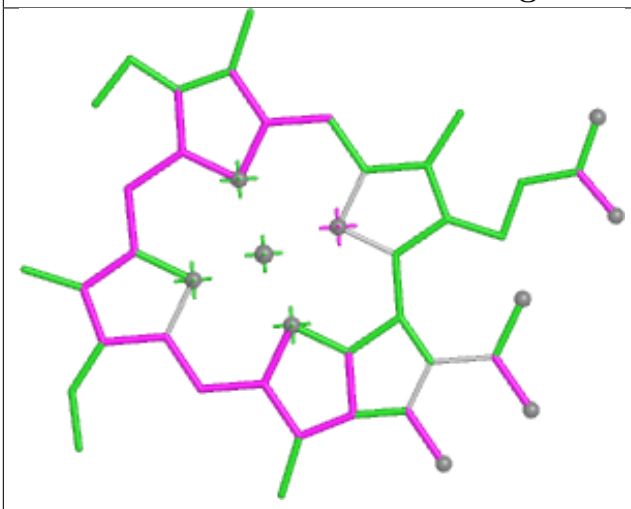


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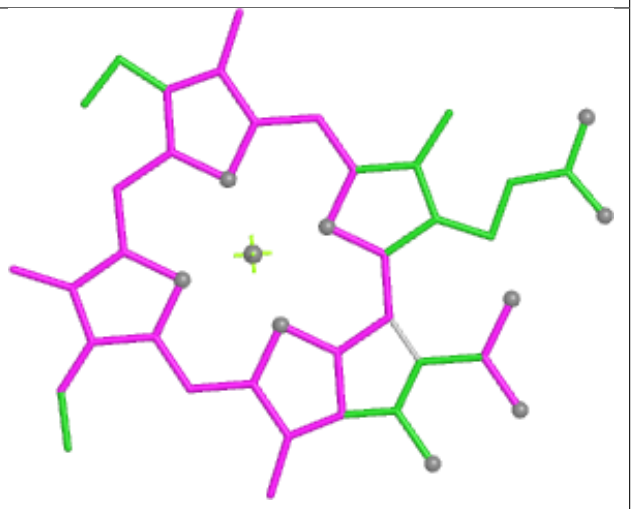


Rings

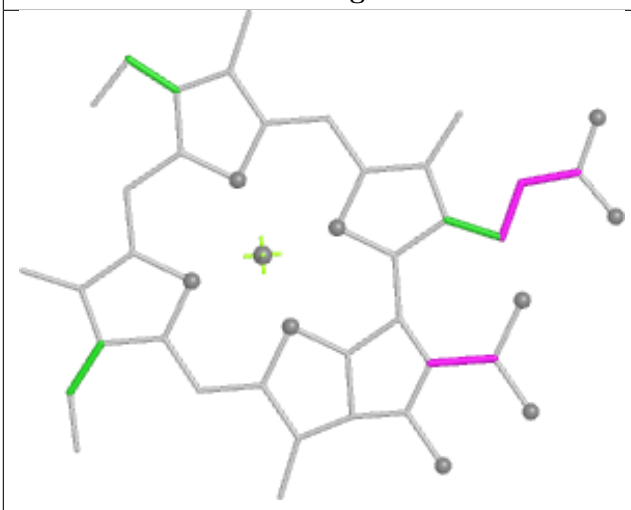
Ligand CLA 03 309



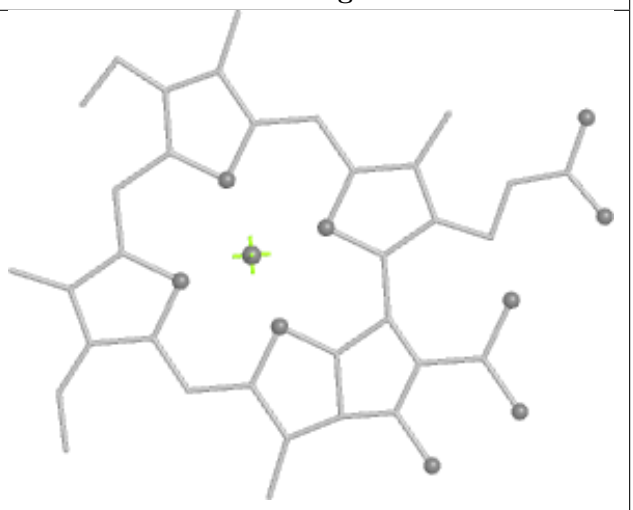
Bond lengths



Bond angles

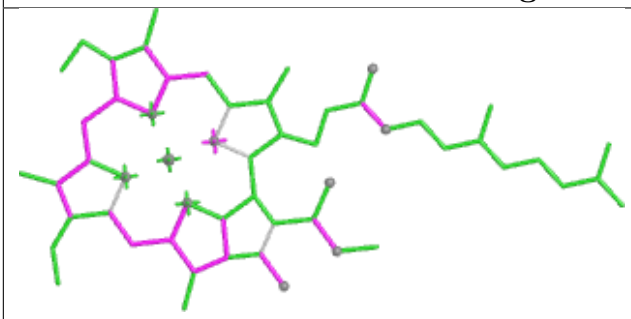


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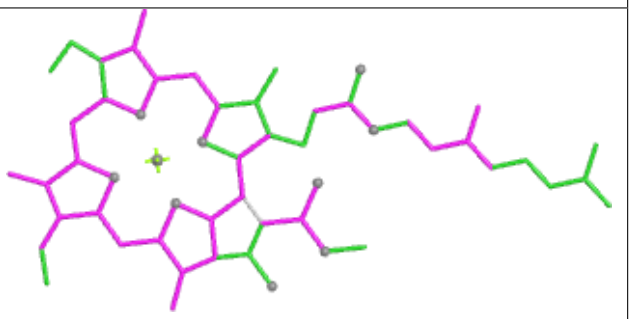


Rings

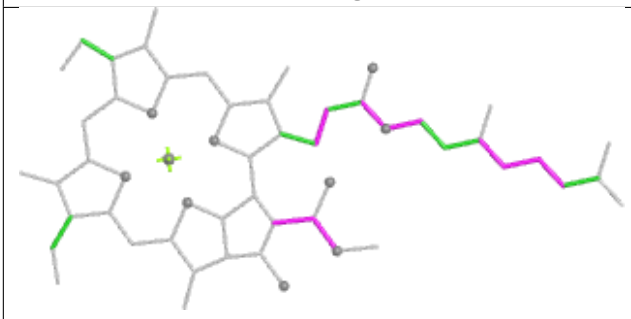
Ligand CLA 09 301



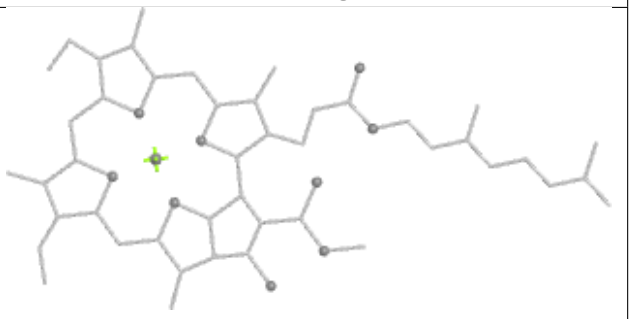
Bond lengths



Bond angles

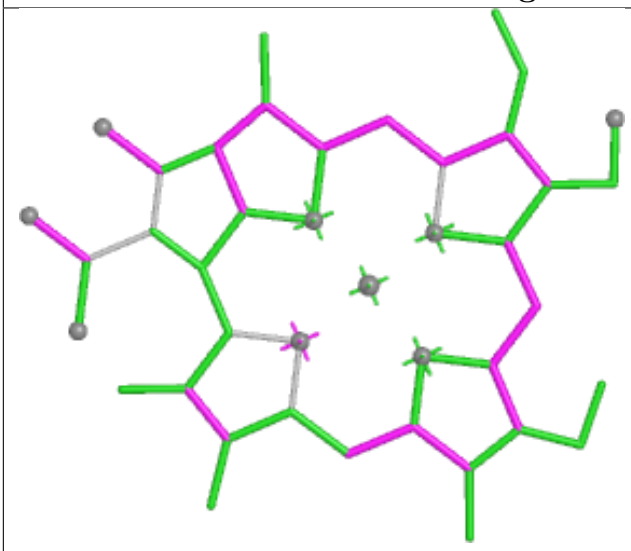


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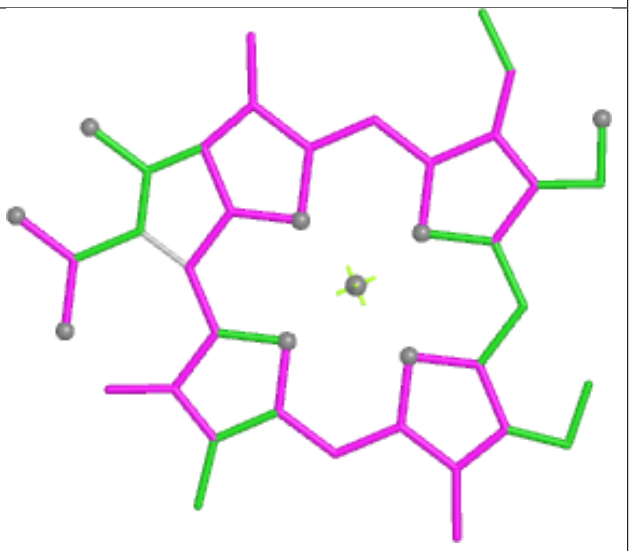


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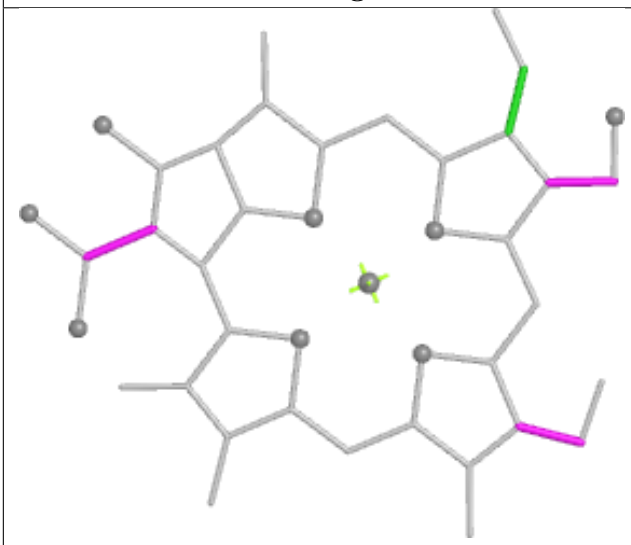
Ligand CHL 09 304



Bond lengths



Bond angles

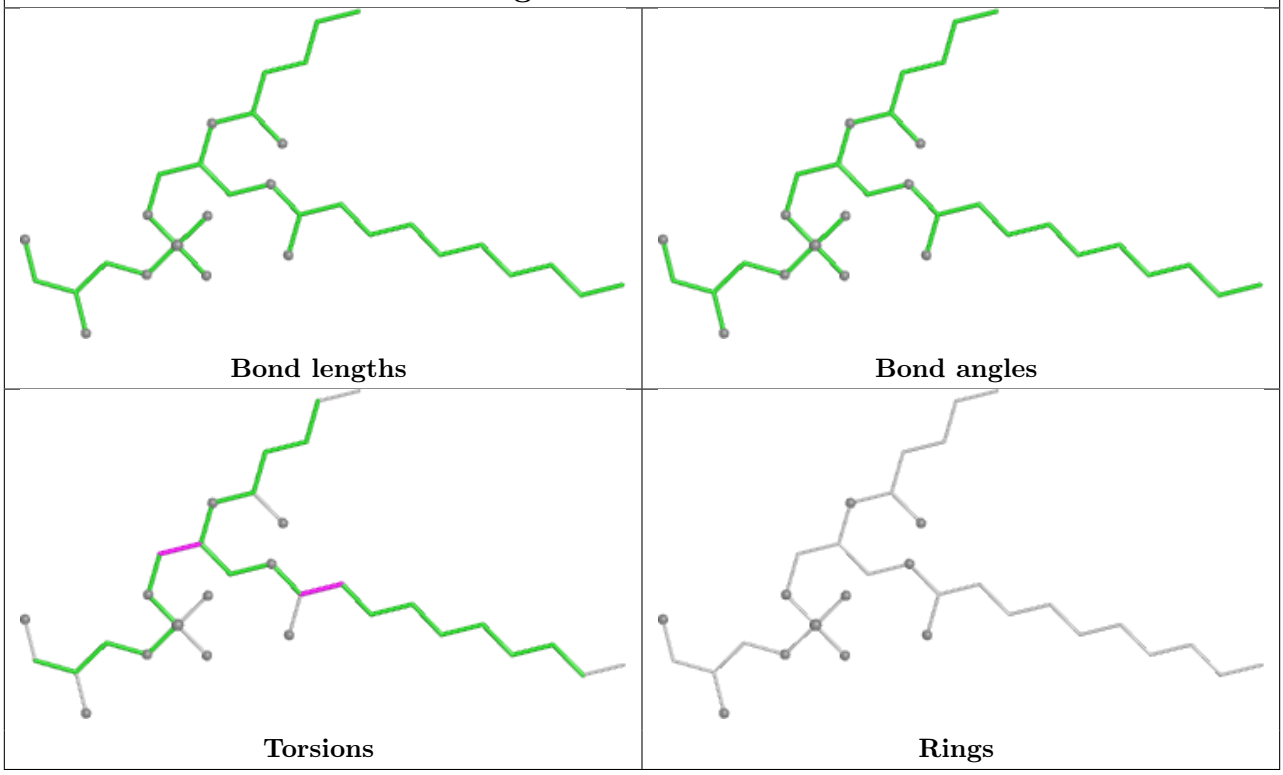


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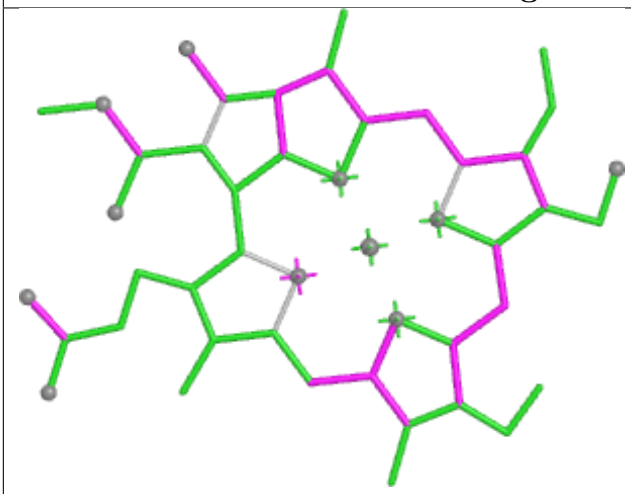


Rings

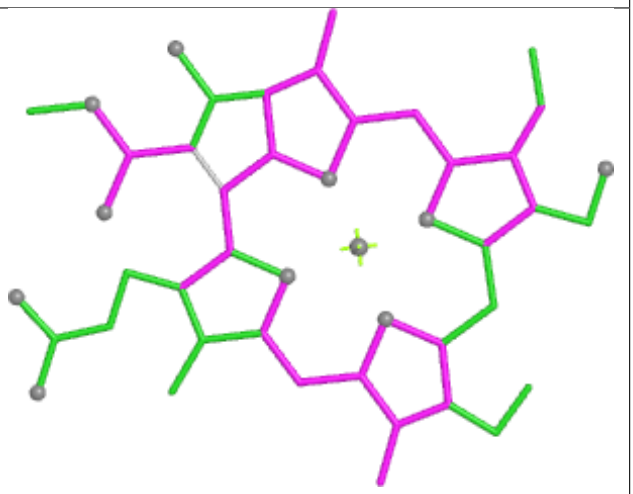
Ligand LHG 1D 410



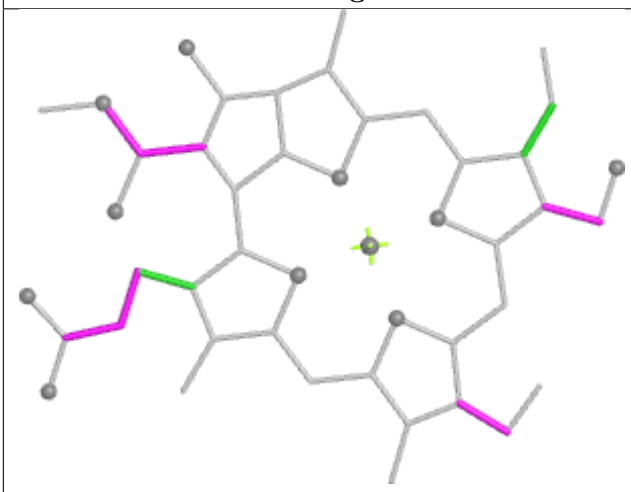
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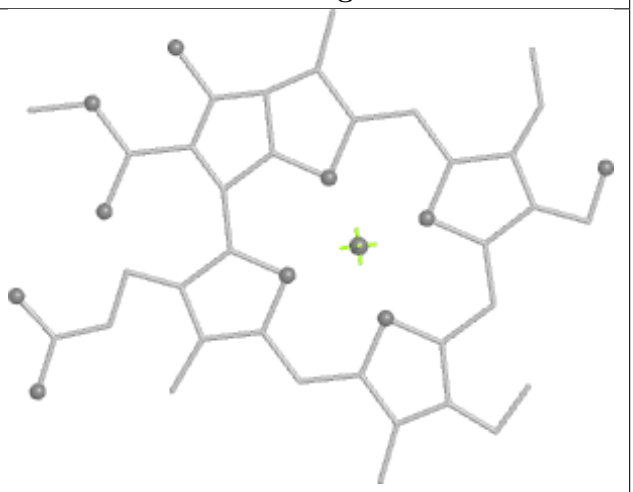
Bond lengths



Bond angles

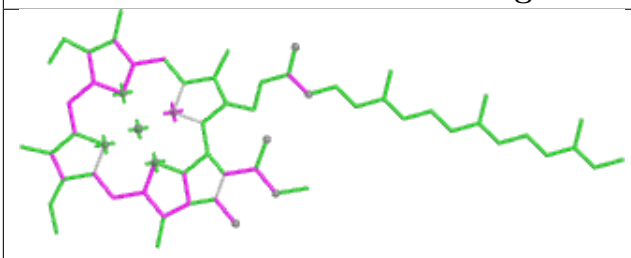


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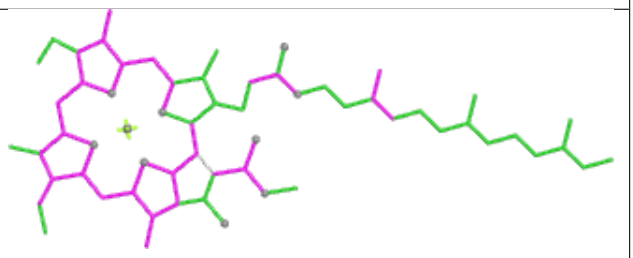


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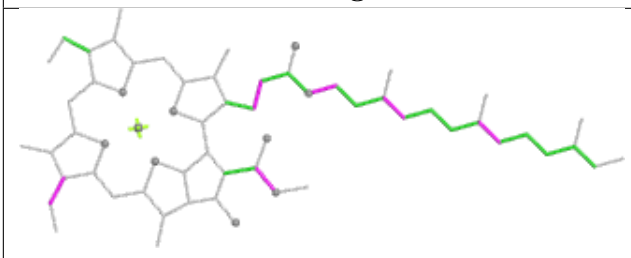
Ligand CLA 1A 404



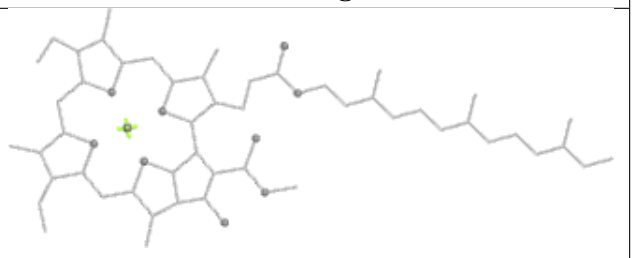
Bond lengths



Bond angles



Torsions

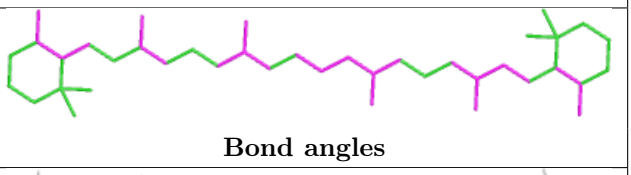


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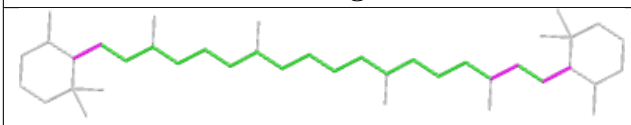
Ligand BCR 04 313



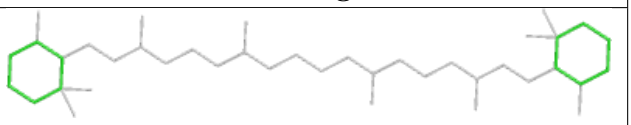
Bond lengths



Bond angles

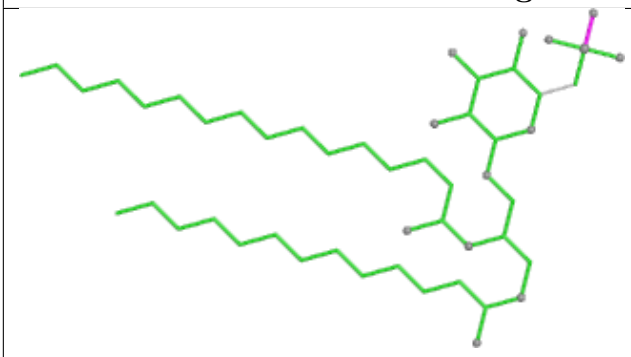


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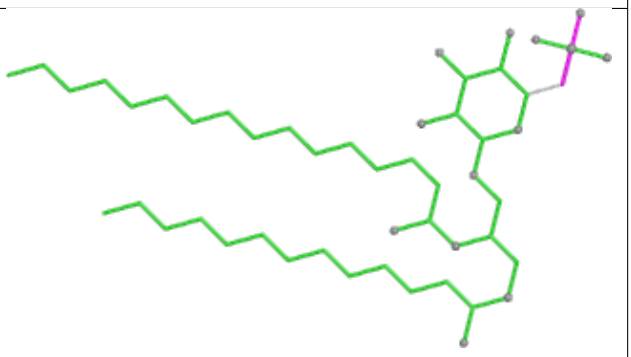


Rings

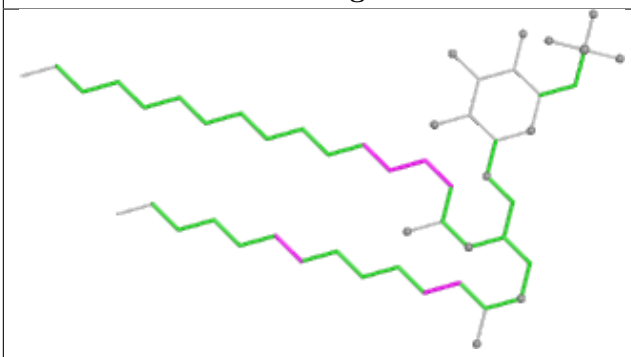
Ligand SQD 1C 521



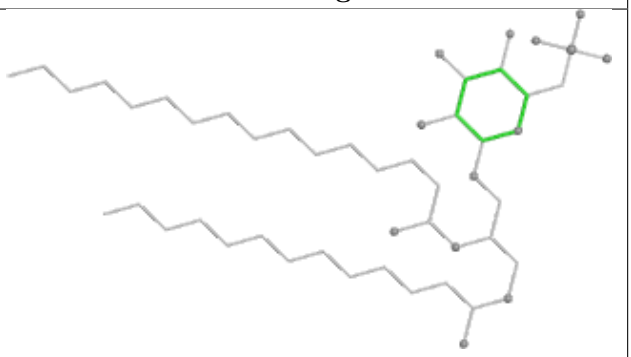
Bond lengths



Bond angles

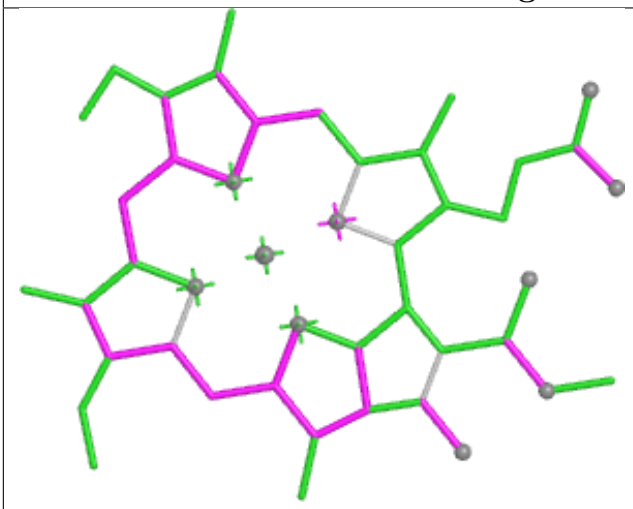


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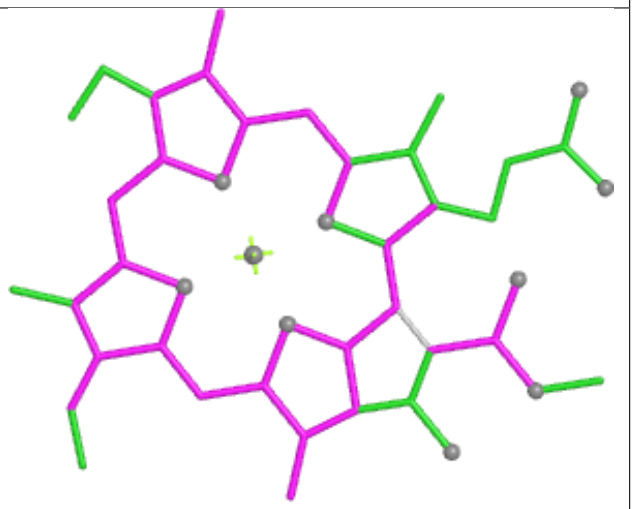


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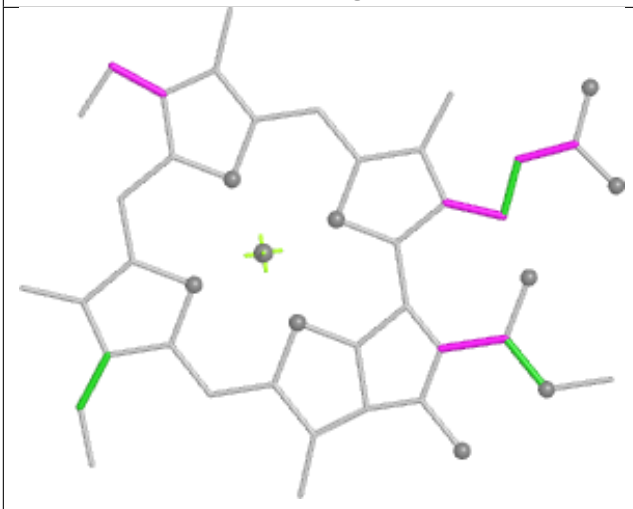
Ligand CLA 1b 617



Bond lengths



Bond angles

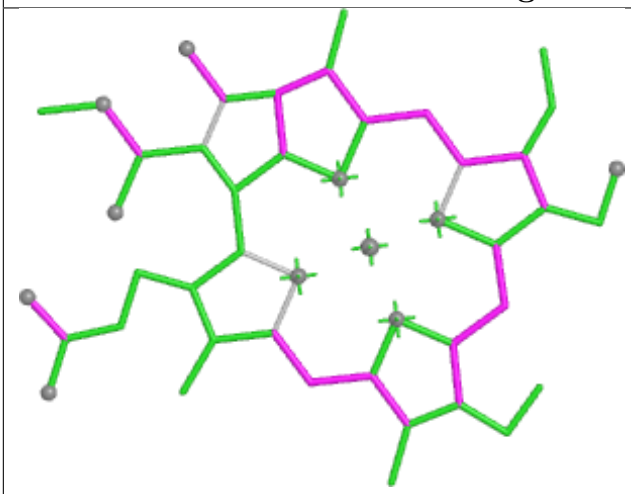


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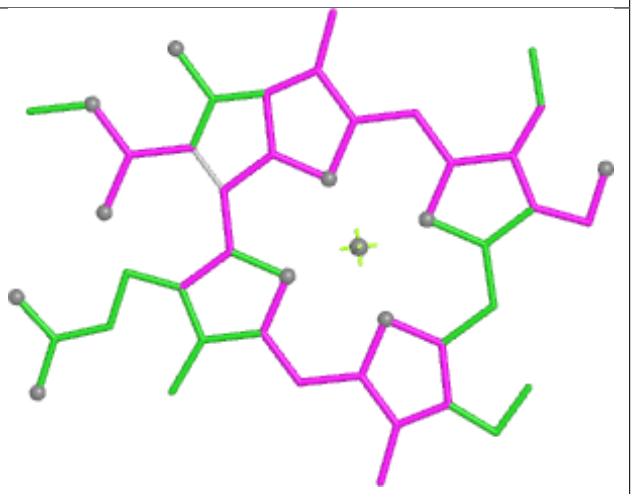


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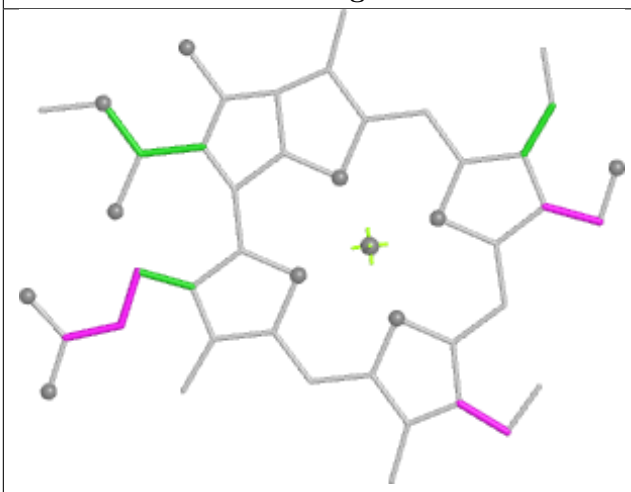
Ligand CHL 1S 304



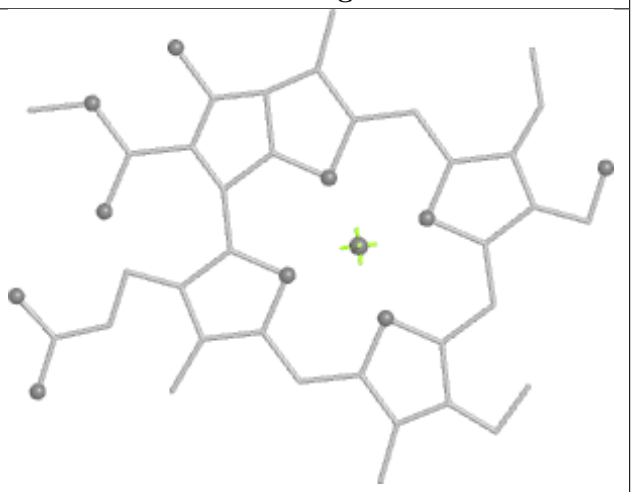
Bond lengths



Bond angles

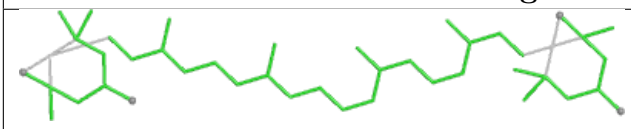


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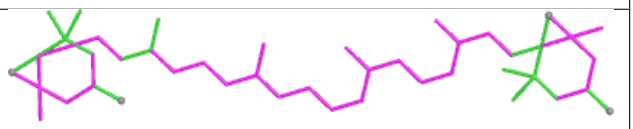


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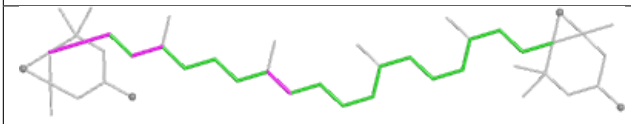
Ligand XAT 1r 316



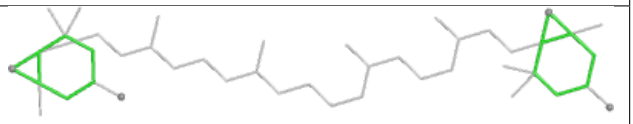
Bond lengths



Bond angles

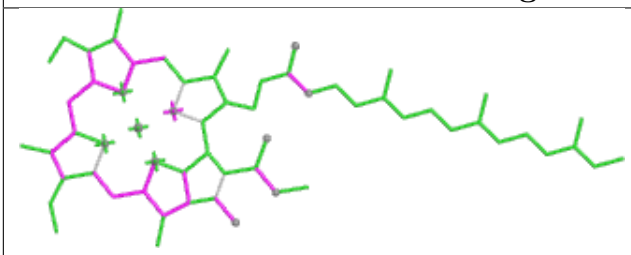


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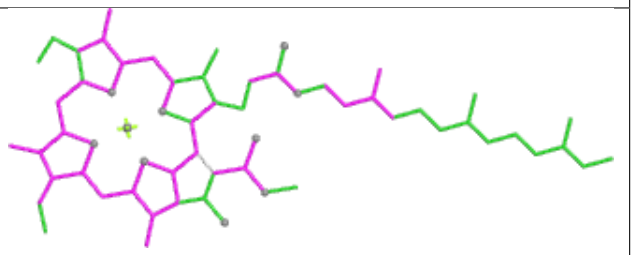


Rings

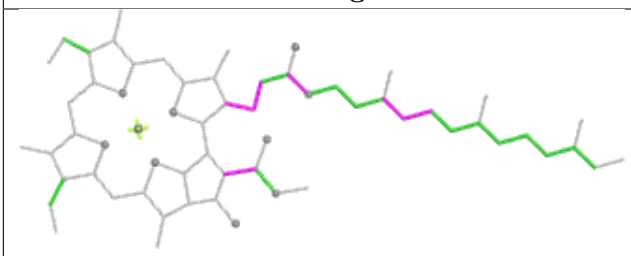
Ligand CLA 00 301



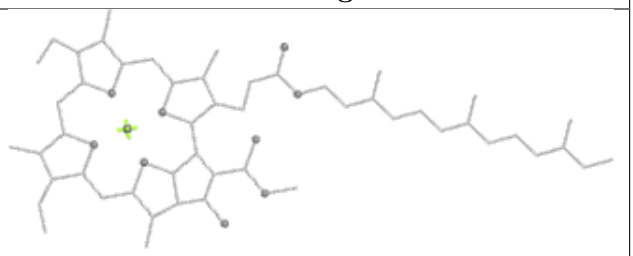
Bond lengths



Bond angles

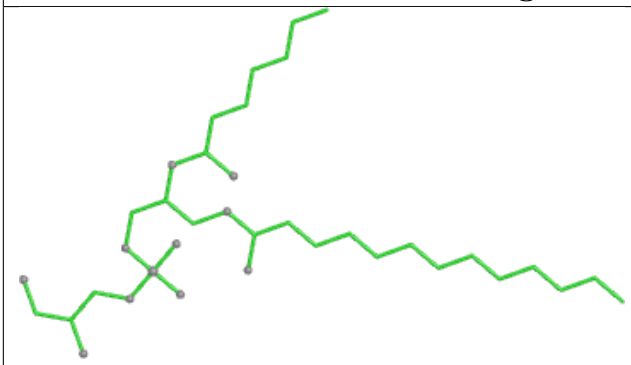


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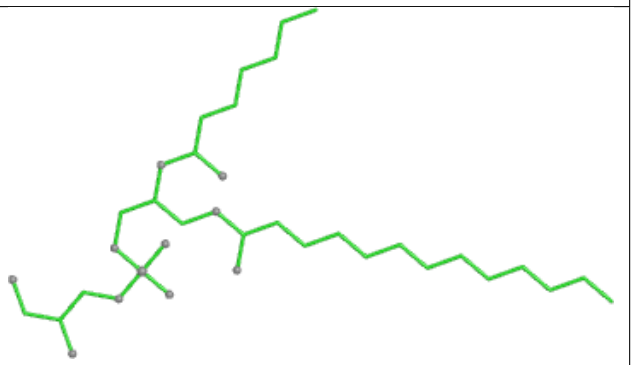


Rings

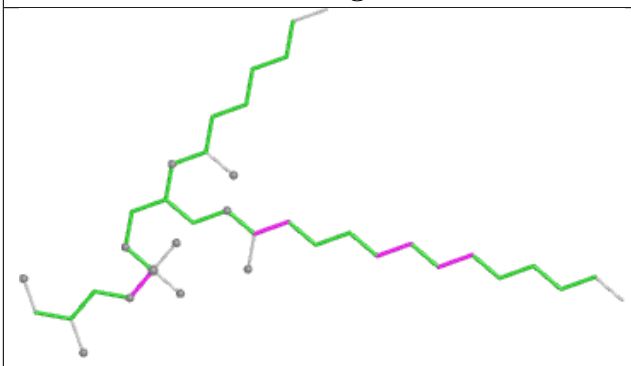
Ligand LHG 09 316



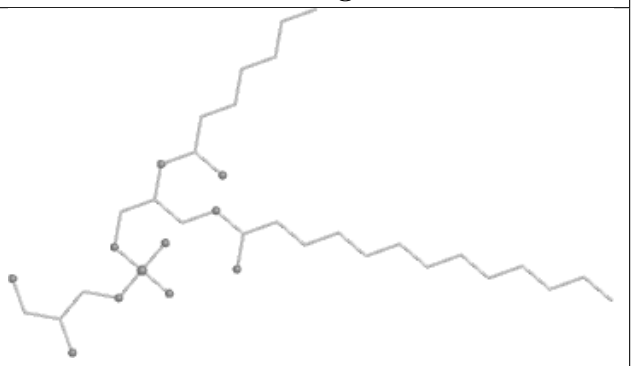
Bond lengths



Bond angles

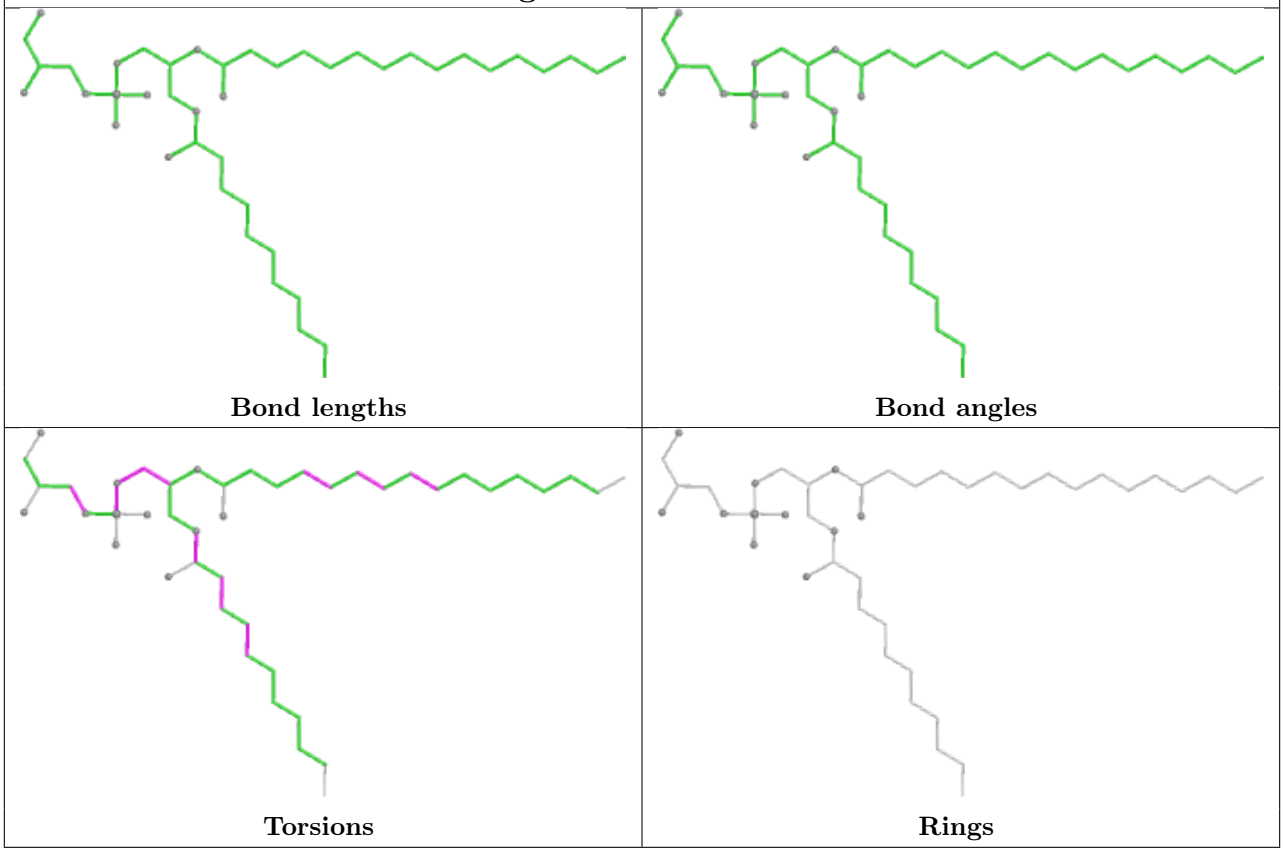


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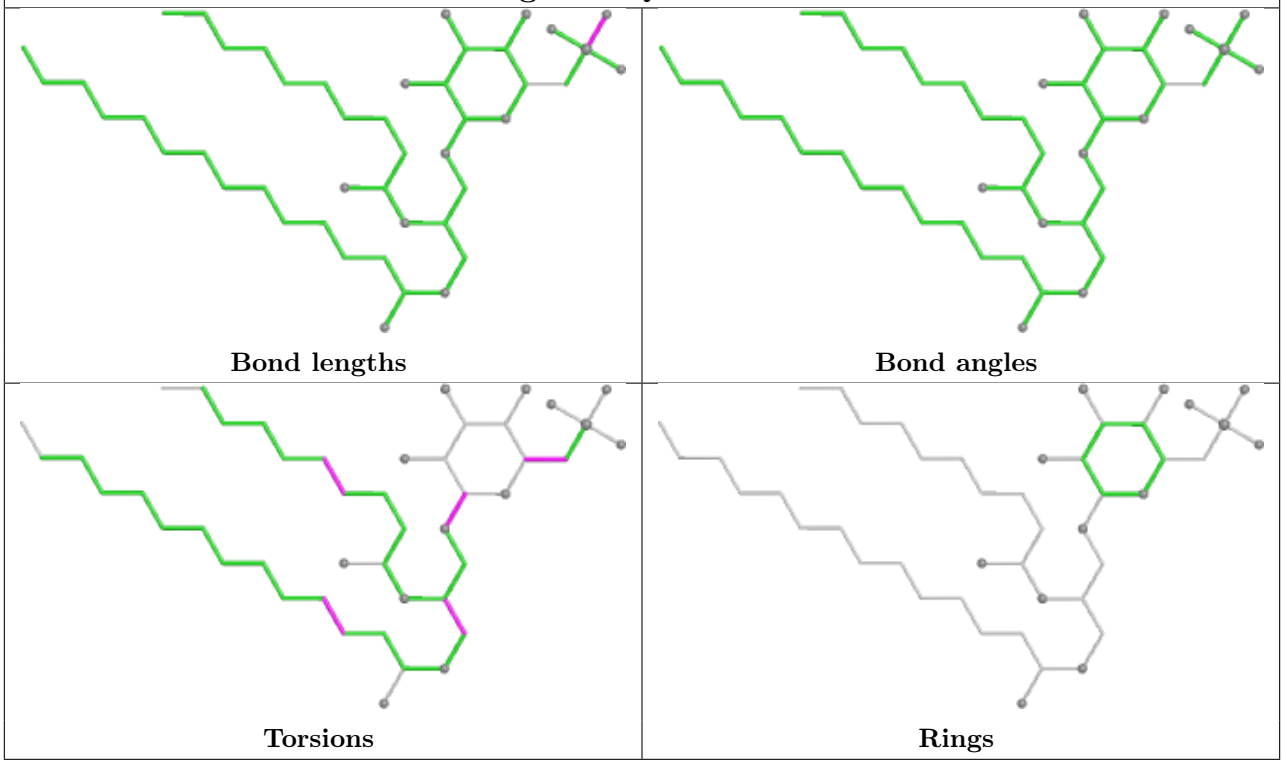


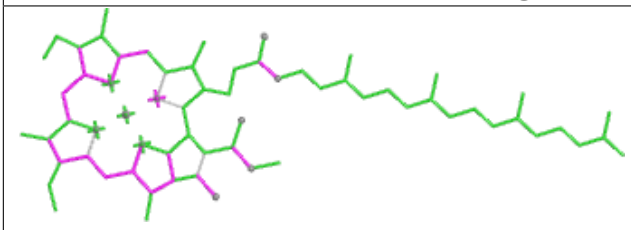
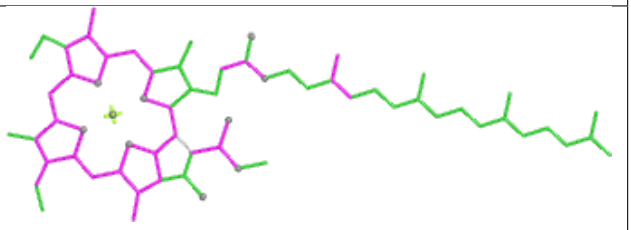
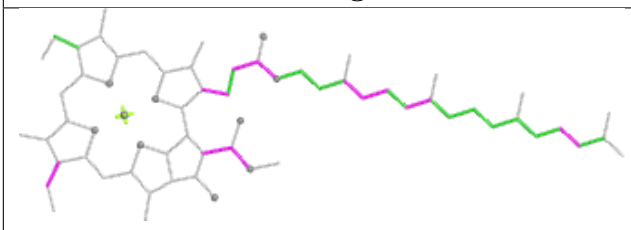
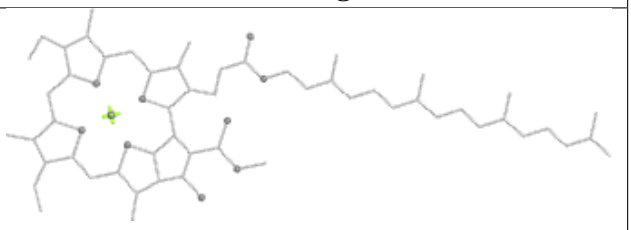
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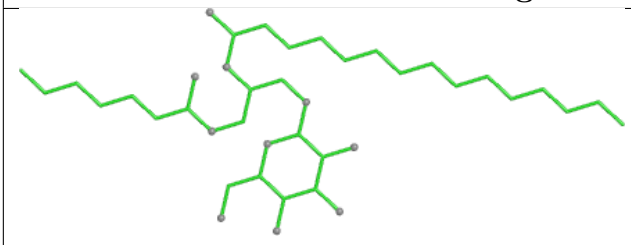
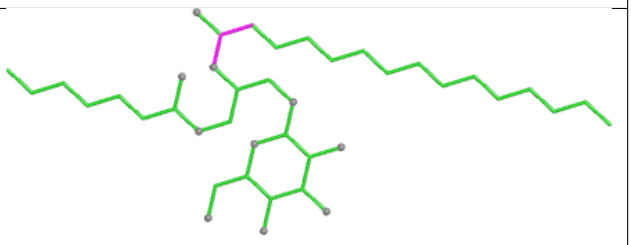
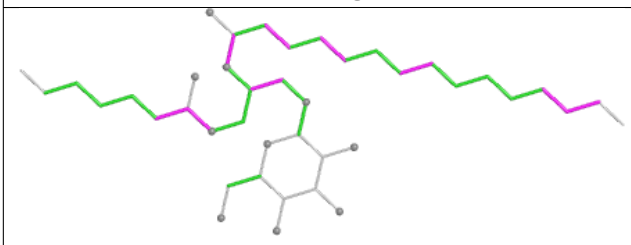
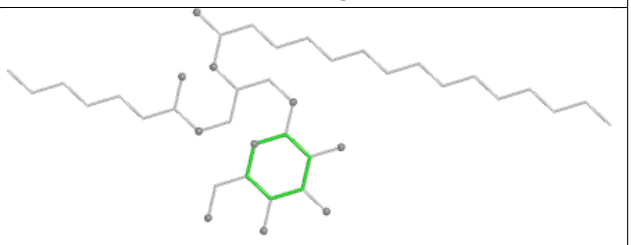
Ligand LHG 00 321



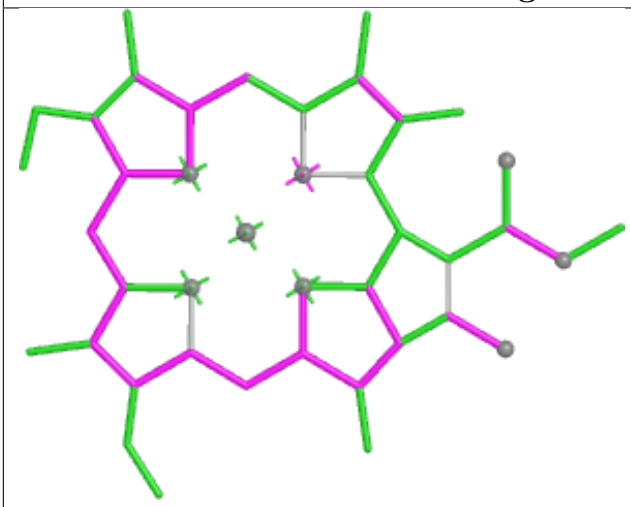
Ligand SQD 1S 302



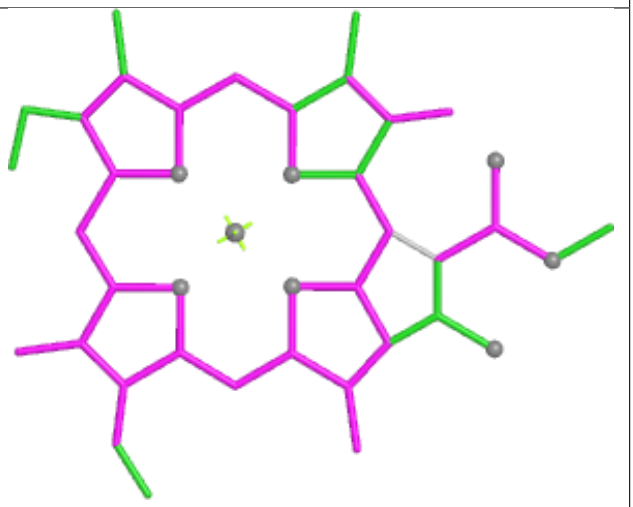
Ligand CLA 1B 608	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand MGE 1s 320	
 Bond lengths	 Bond angles
 Torsions	 Rings

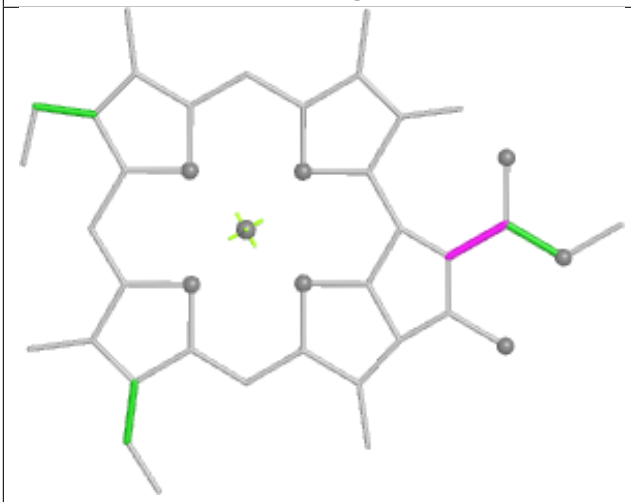
Ligand CLA 1S 311



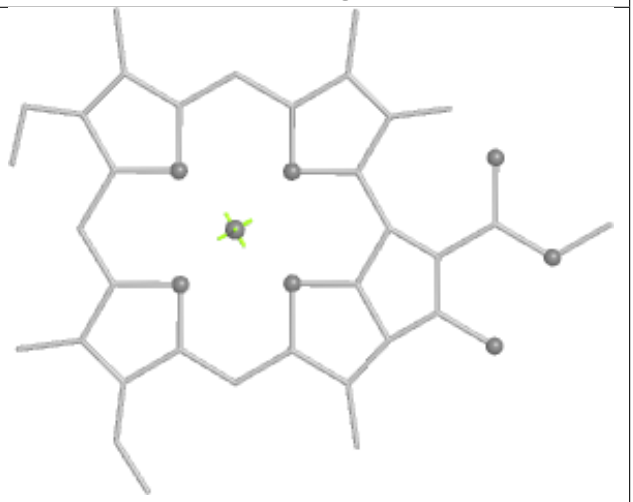
Bond lengths



Bond angles

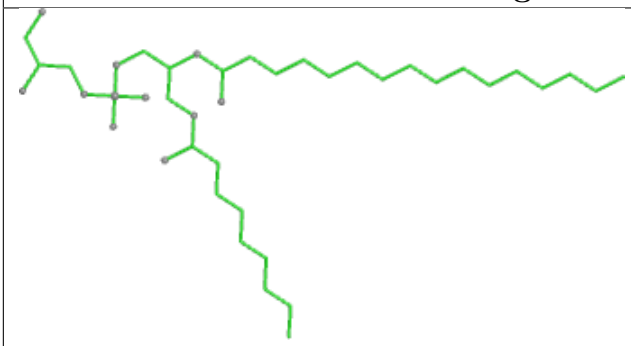


Torsions

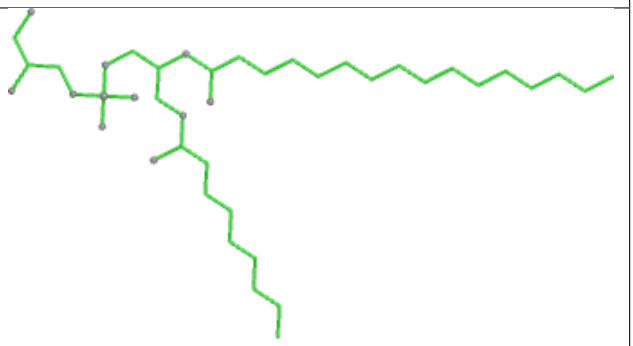


Rings

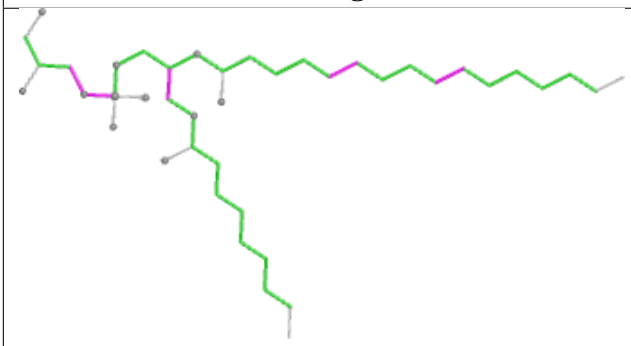
Ligand LHG 1w 103



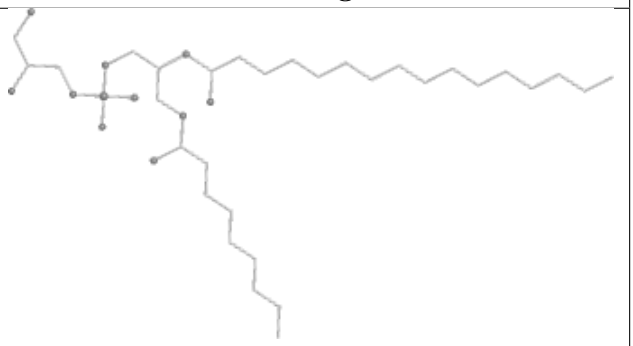
Bond lengths



Bond angles

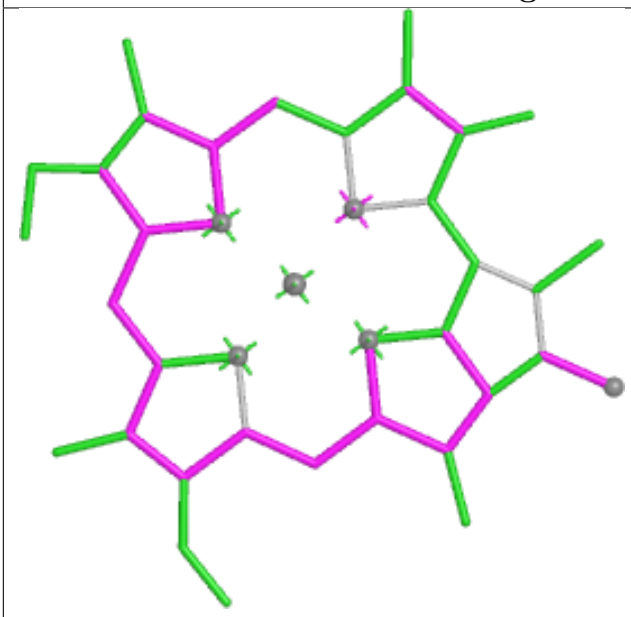


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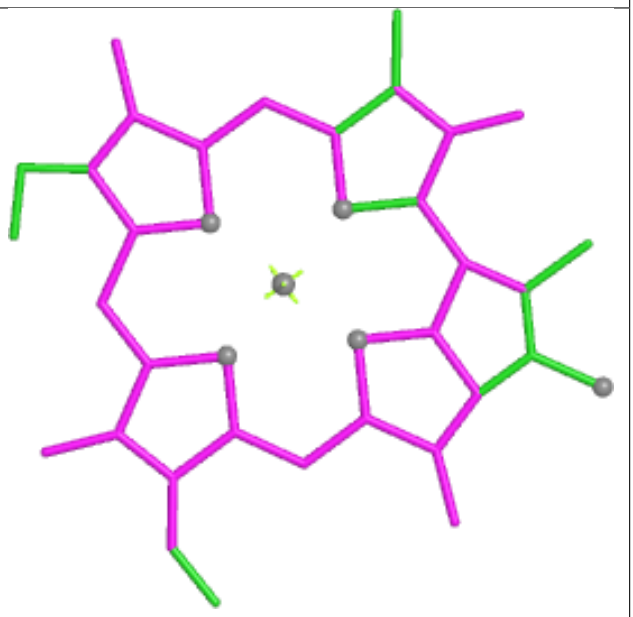


Rings

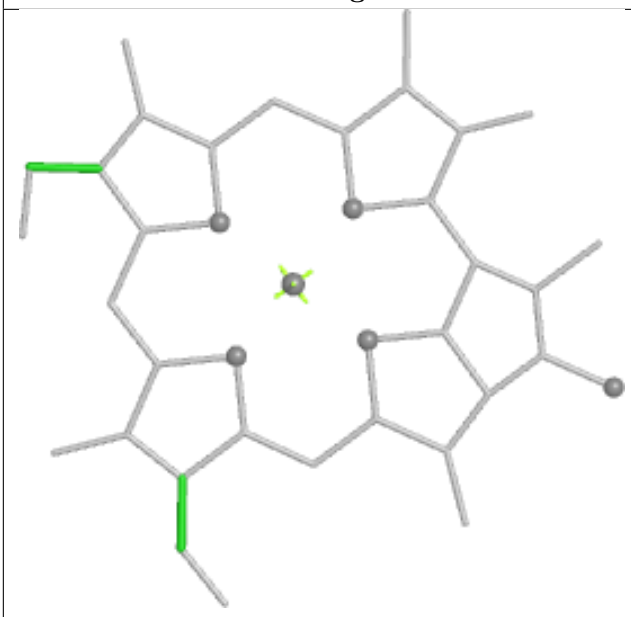
Ligand CLA 08 310



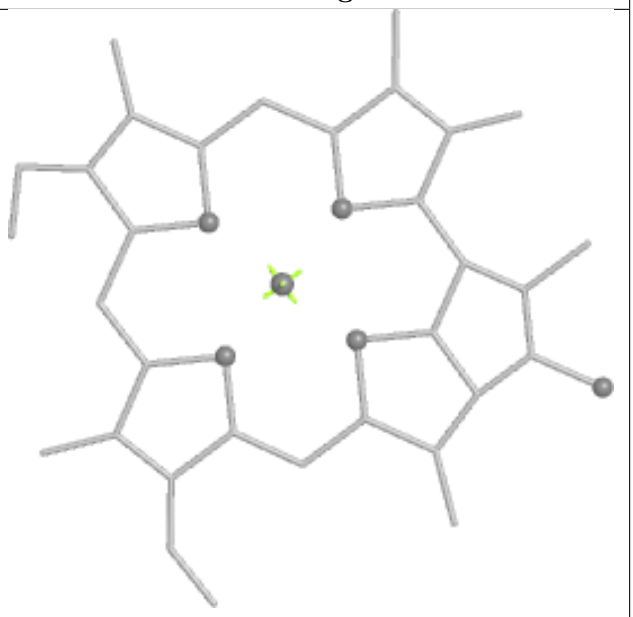
Bond lengths



Bond angles

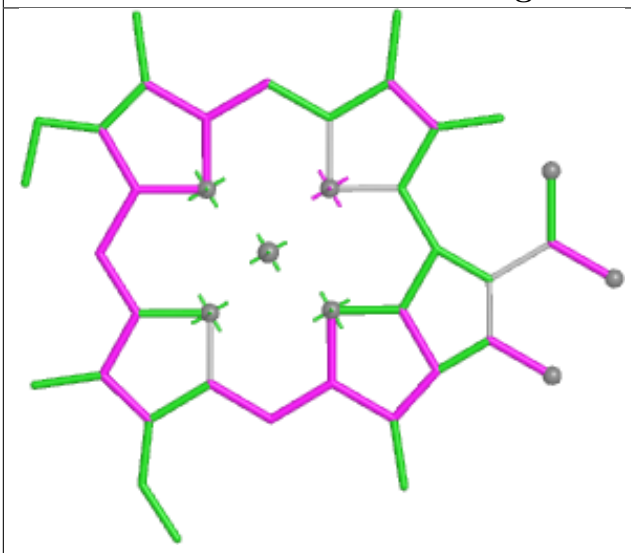


Torsions



Rings

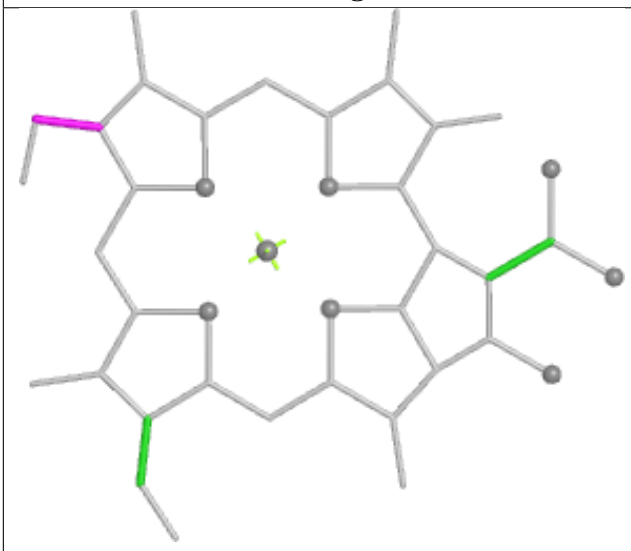
Ligand CLA 1R 307



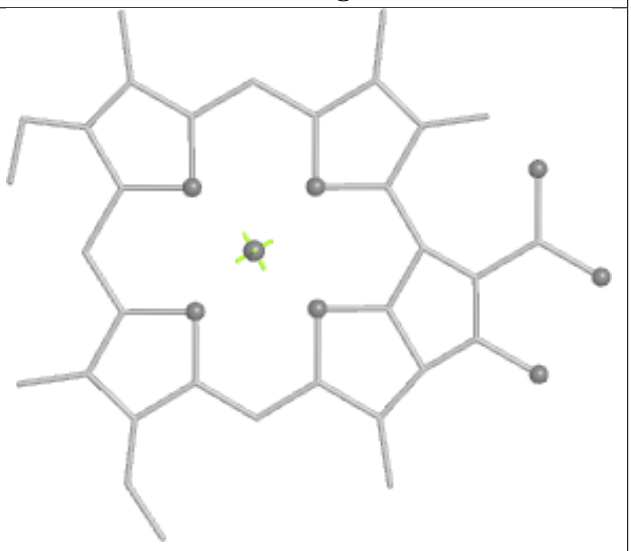
Bond lengths



Bond angles

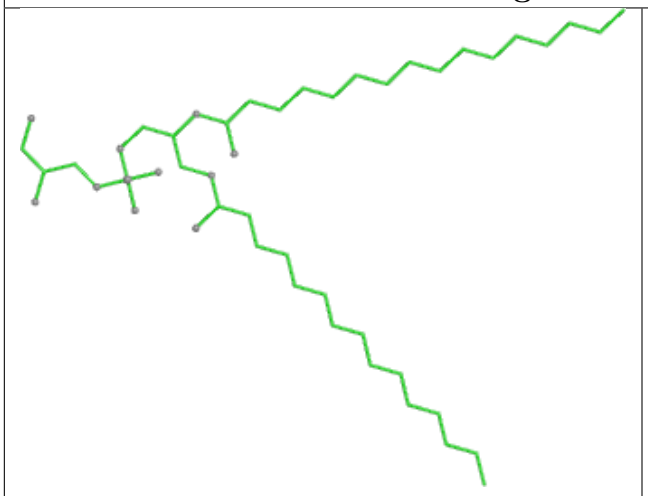


Torsions

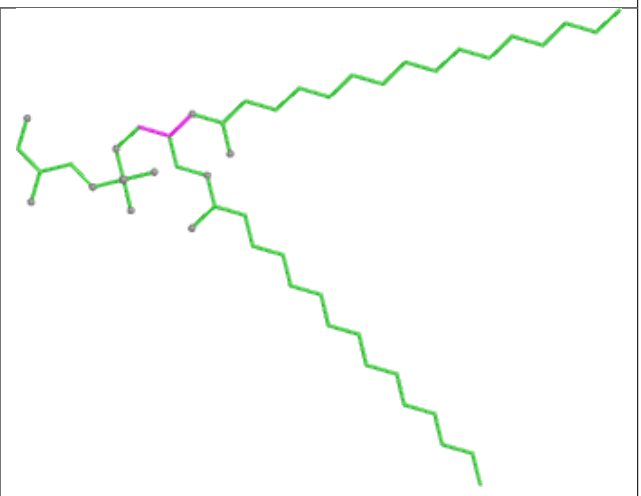


Rings

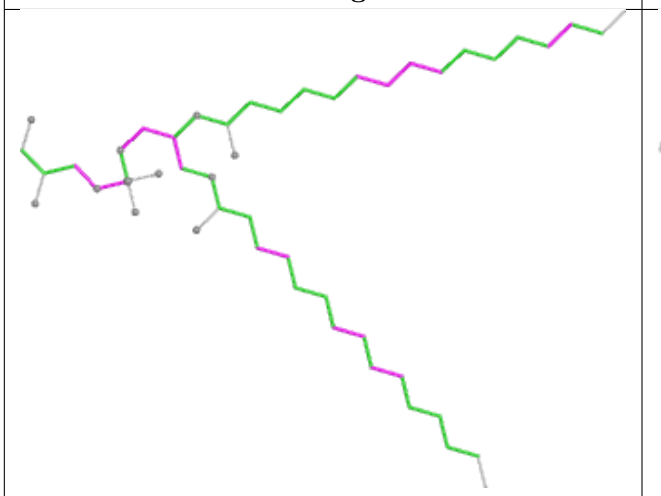
Ligand LHG 1N 318



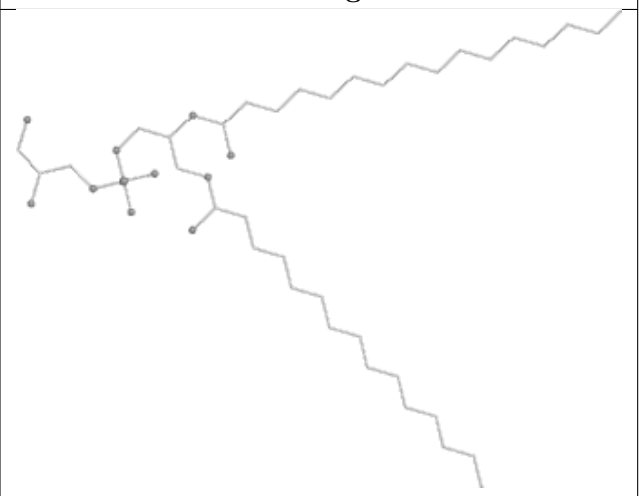
Bond lengths



Bond angles

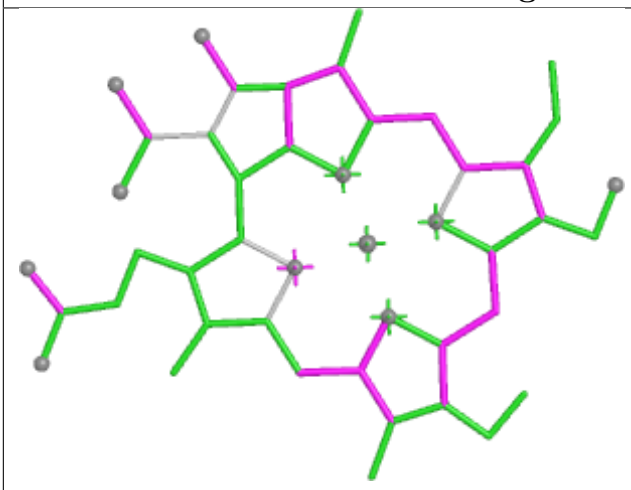


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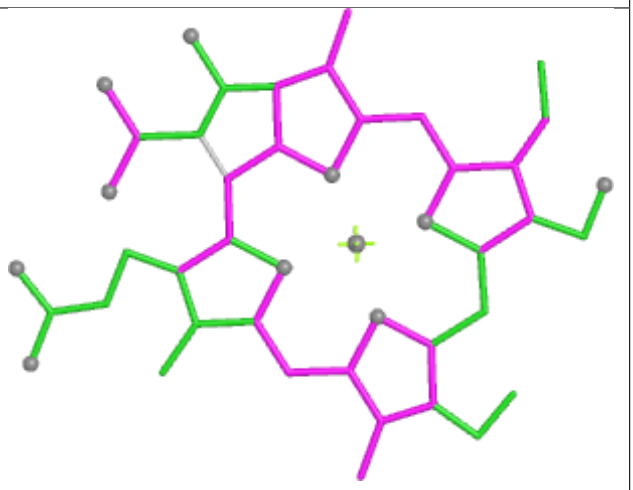


Rings

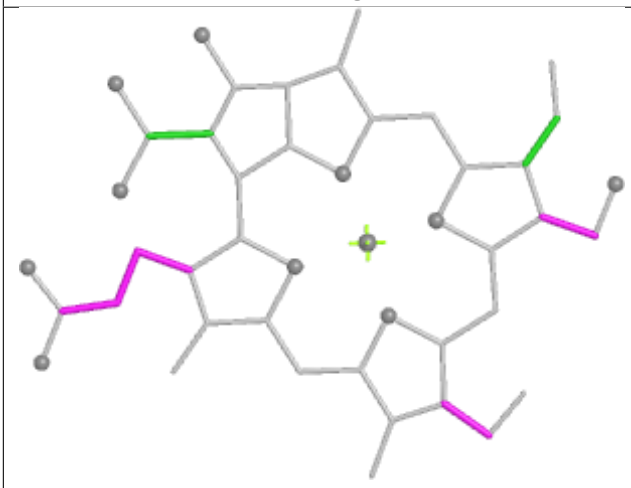
Ligand CHL 00 304



Bond lengths



Bond angles

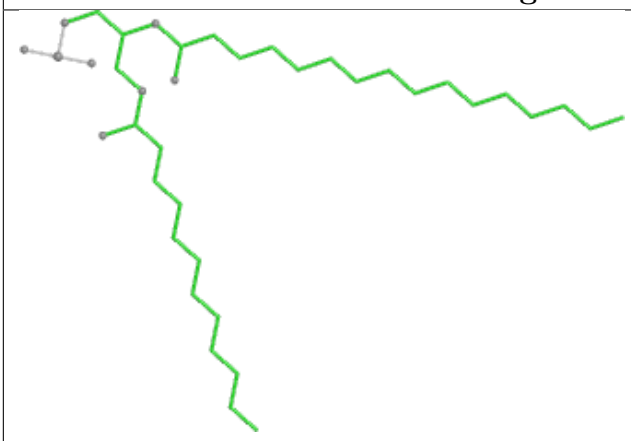


Torsions

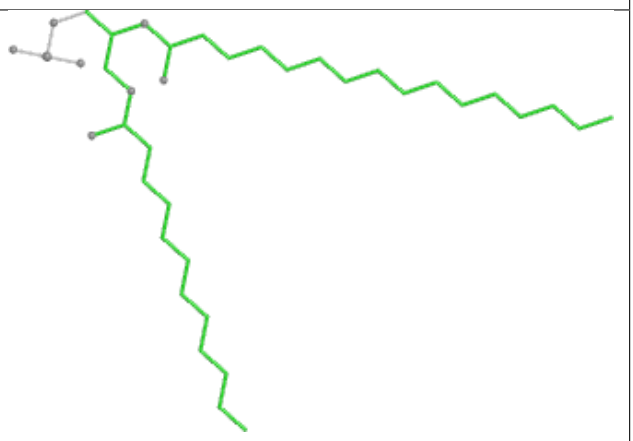


Rings

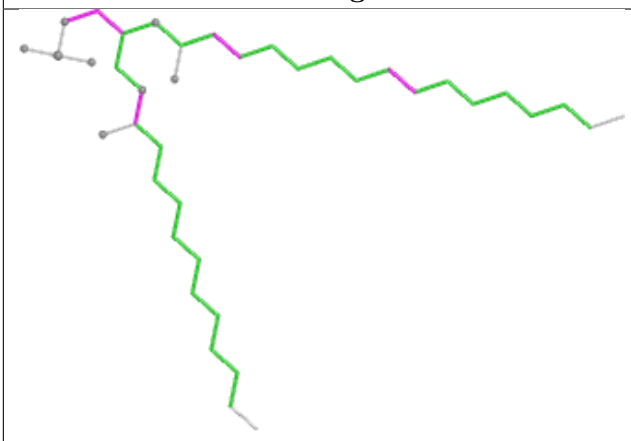
Ligand LHG 1t 101



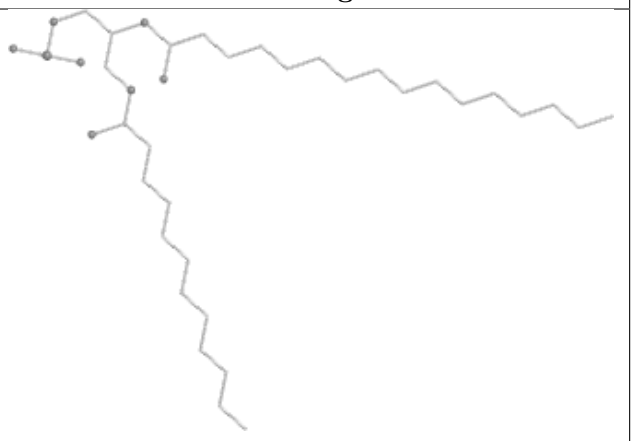
Bond lengths



Bond angles

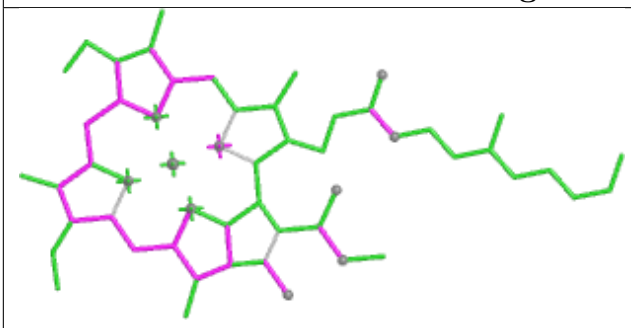


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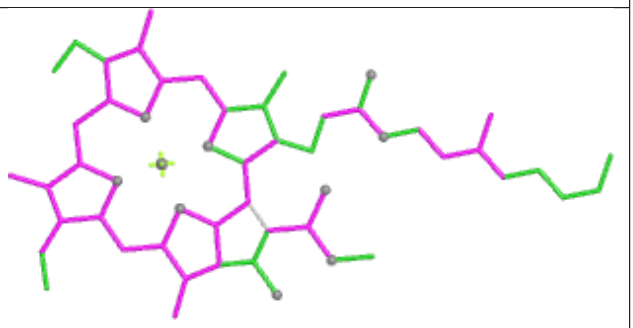


Rings

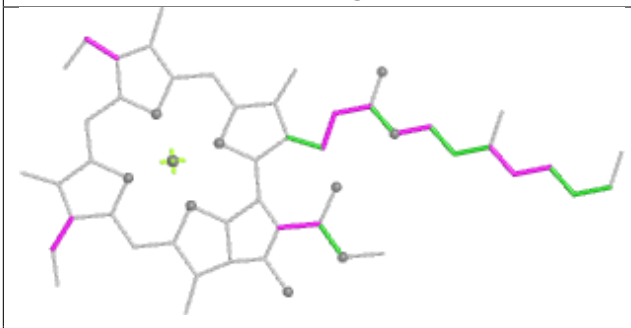
Ligand CLA 01 301



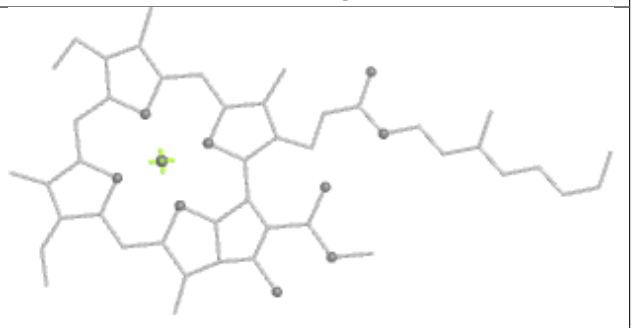
Bond lengths



Bond angles

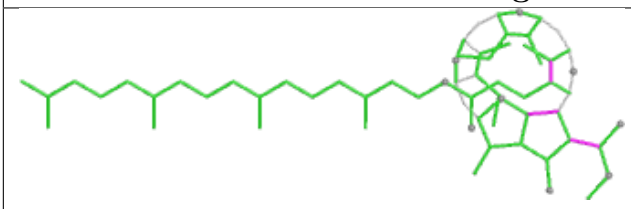


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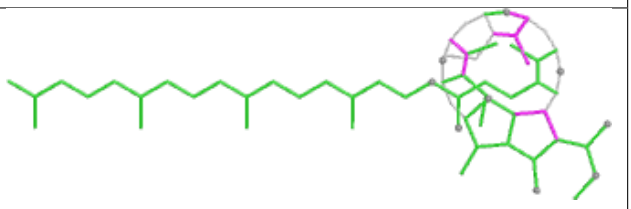


Rings

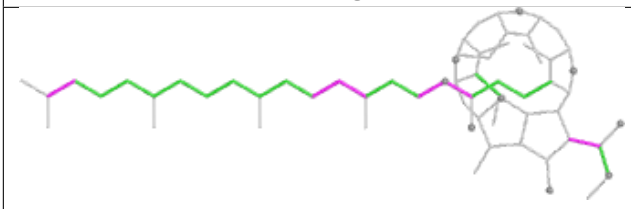
Ligand PHO 1A 405



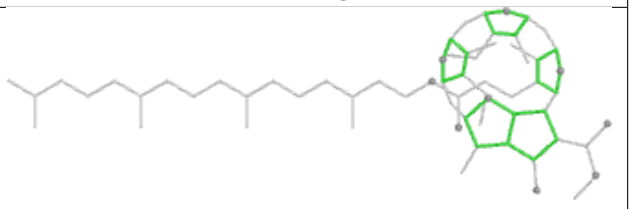
Bond lengths



Bond angles

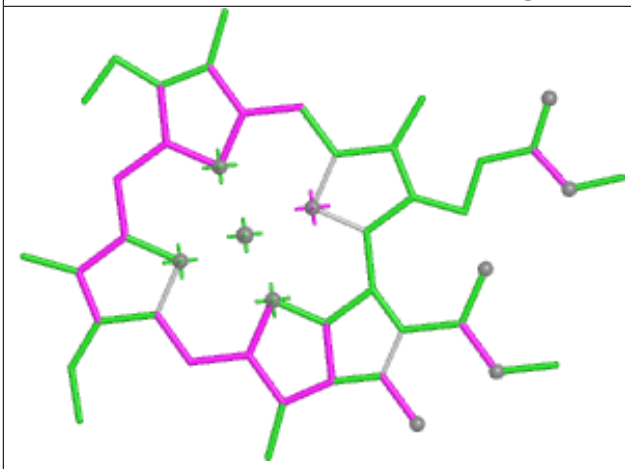


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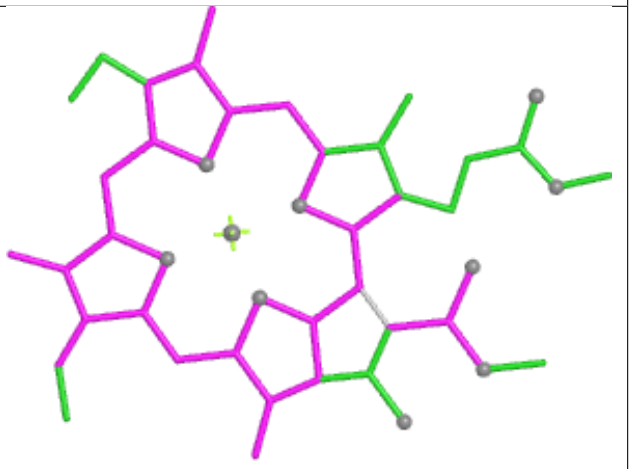


Rings

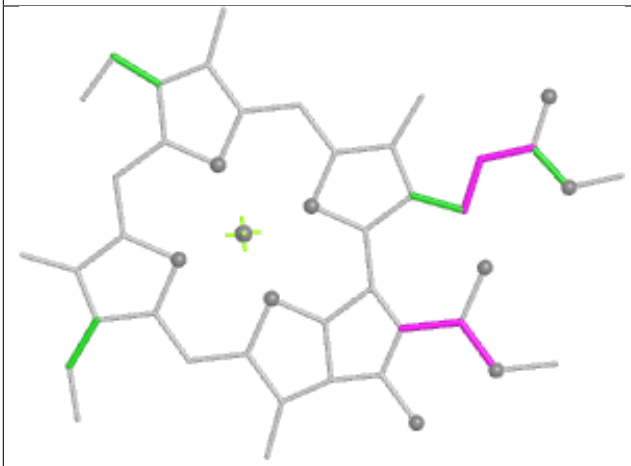
Ligand CLA 02 613



Bond lengths



Bond angles

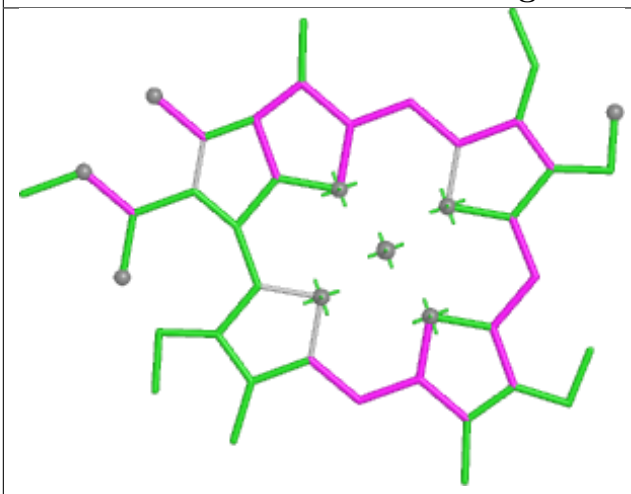


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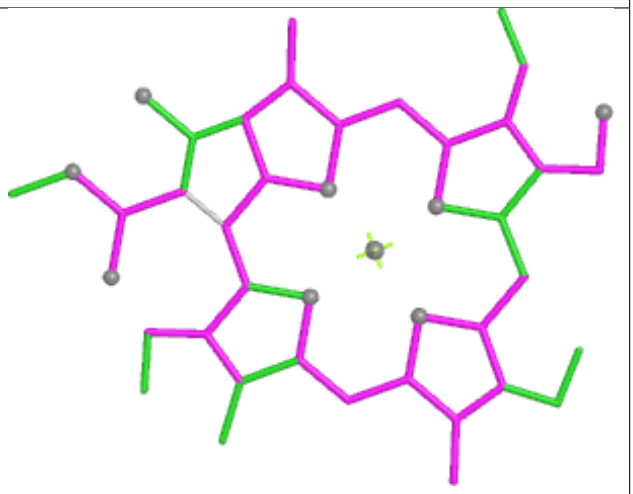


Rings

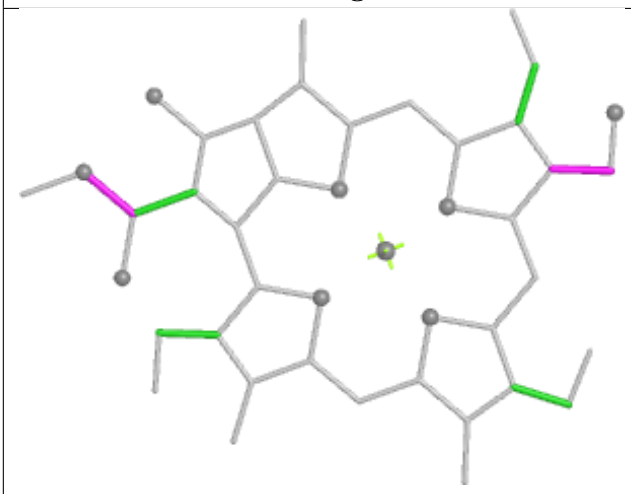
Ligand CHL 09 305



Bond lengths



Bond angles

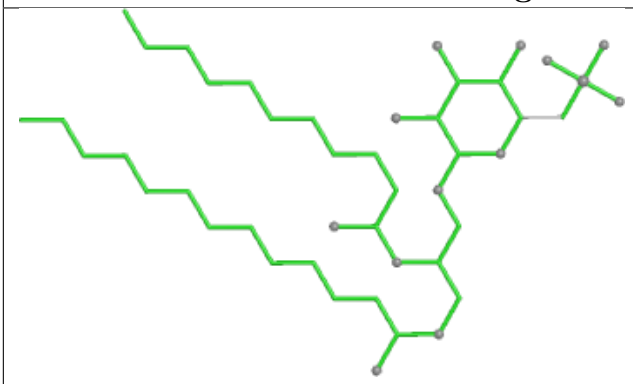


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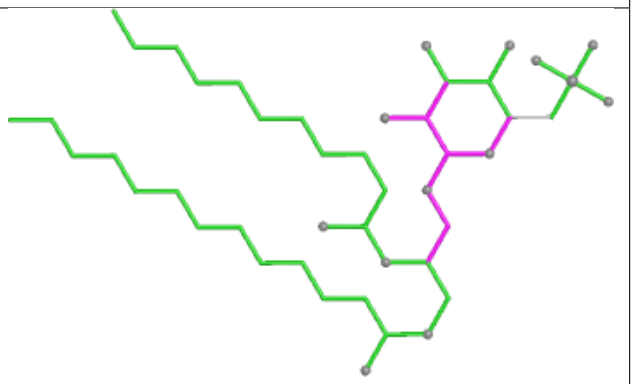


Rings

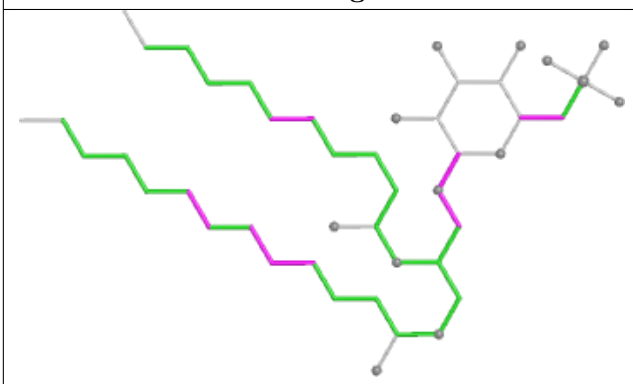
Ligand SQD 1D 411



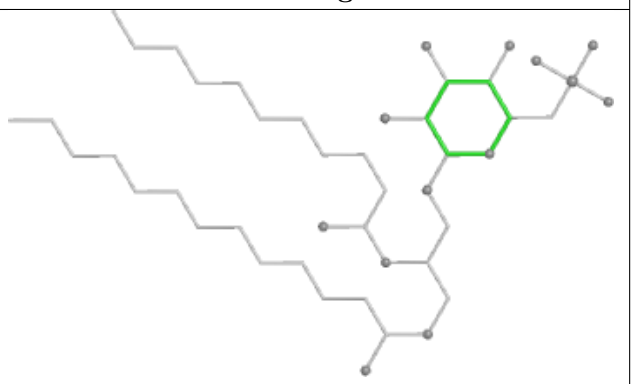
Bond lengths



Bond angles

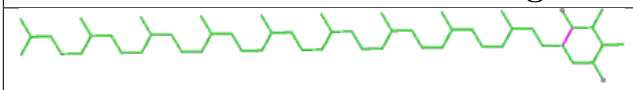


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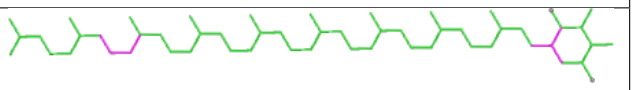


Rings

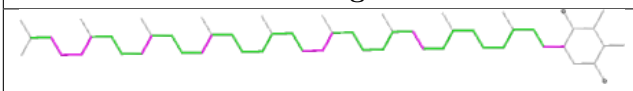
Ligand PL9 1r 301



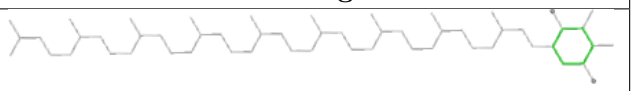
Bond lengths



Bond angles

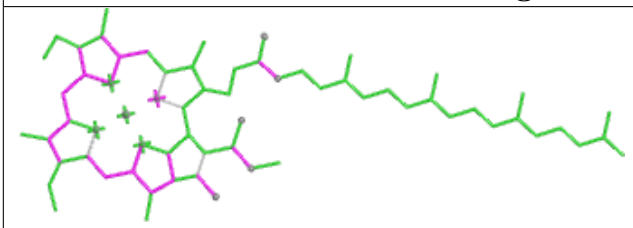


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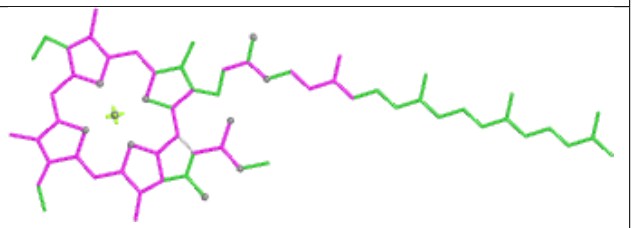


Rings

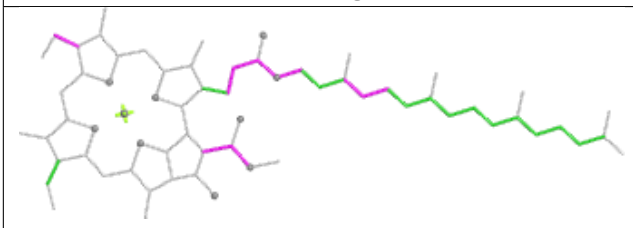
Ligand CLA 1B 612



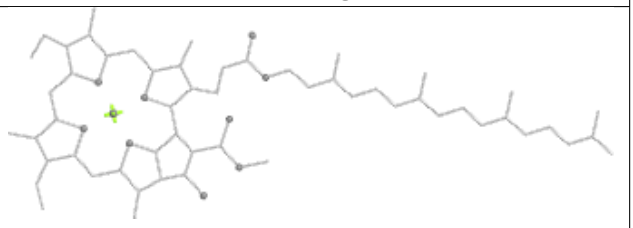
Bond lengths



Bond angles

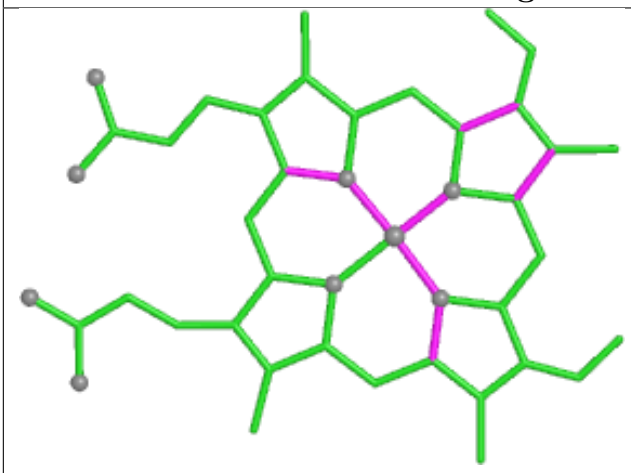


Torsions

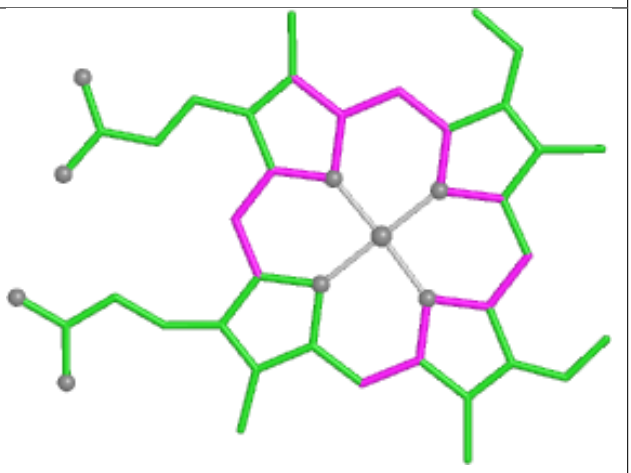


Rings

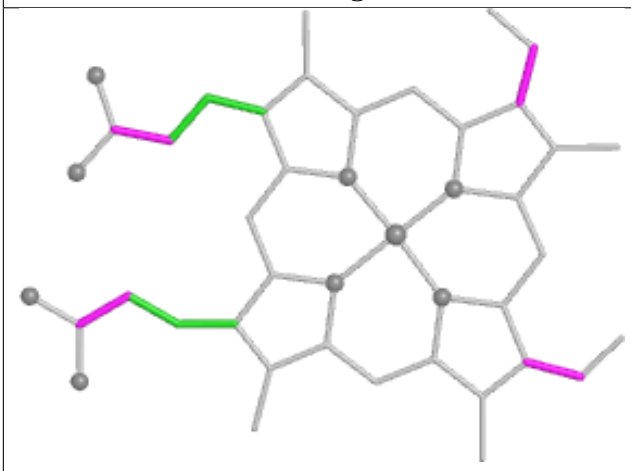
Ligand HEM 1f 101



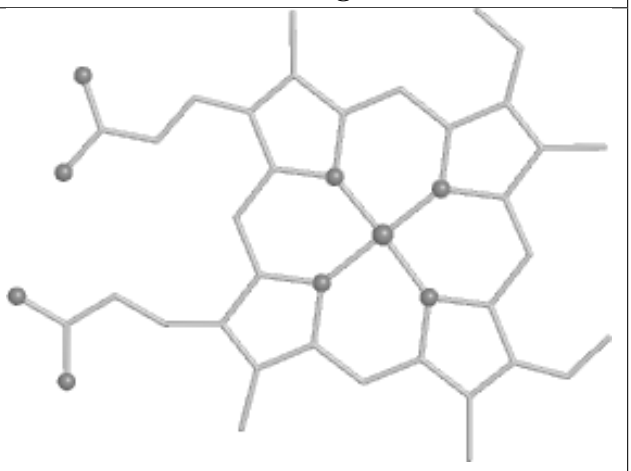
Bond lengths



Bond angles

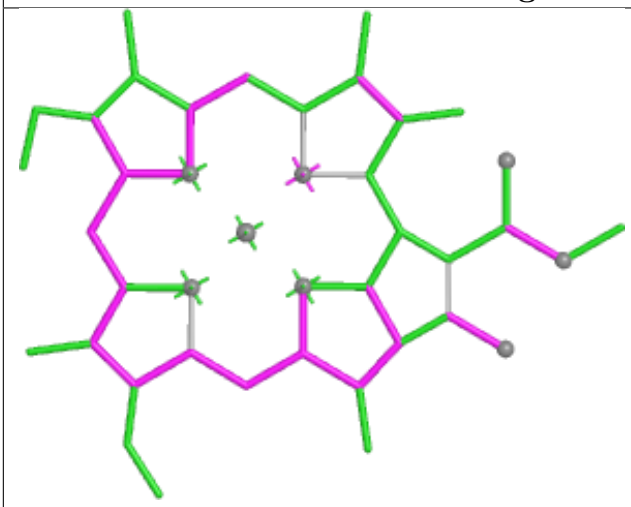


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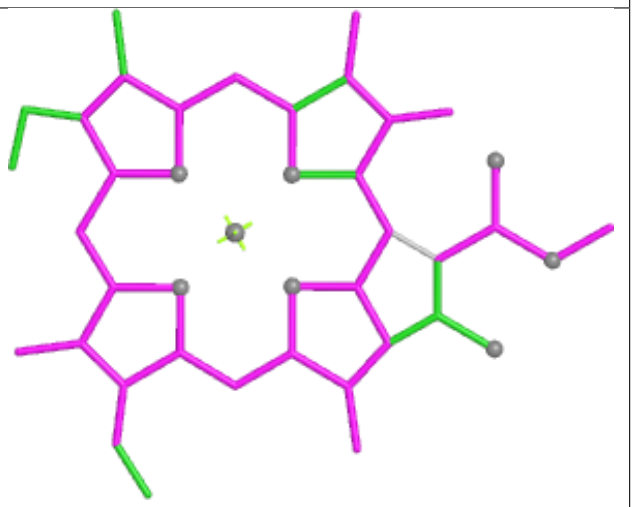


Rings

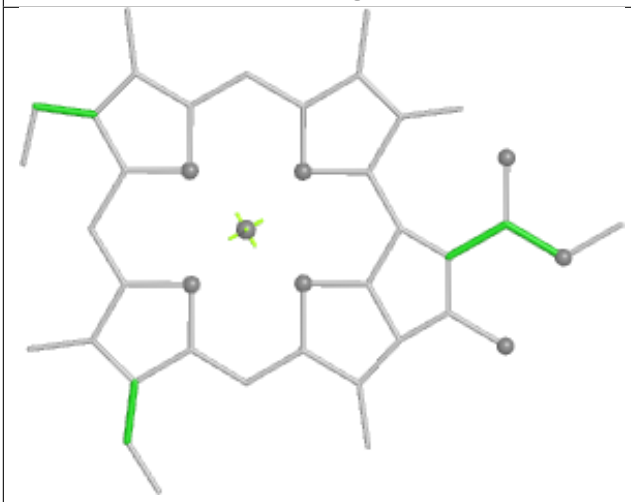
Ligand CLA 1S 310



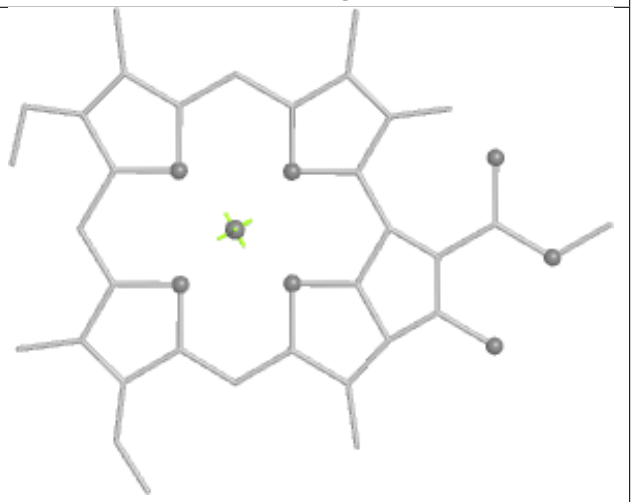
Bond lengths



Bond angles

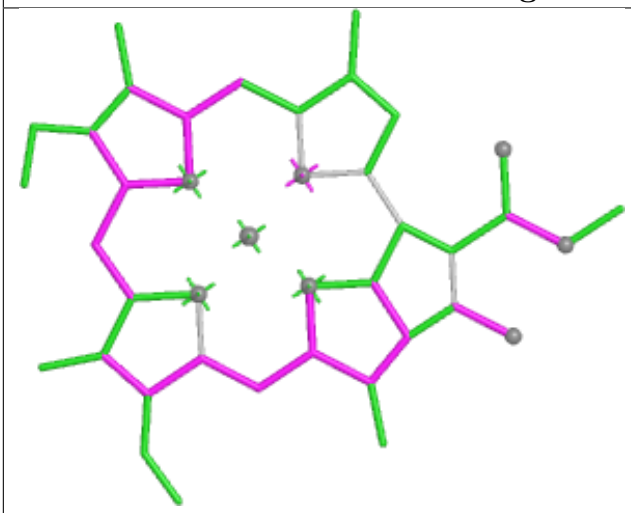


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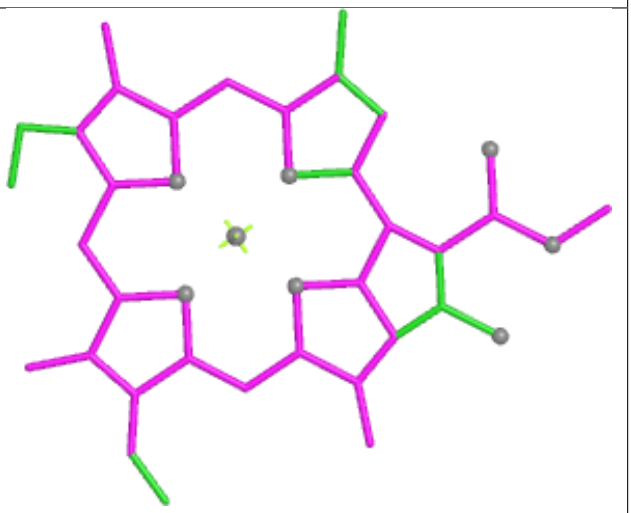


Rings

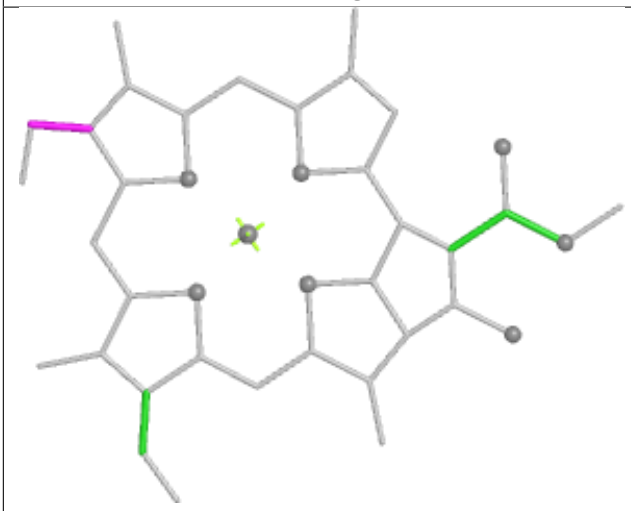
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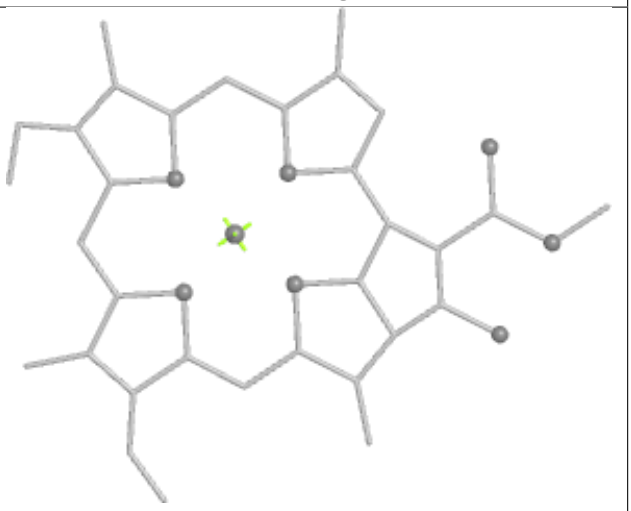
Bond lengths



Bond angles

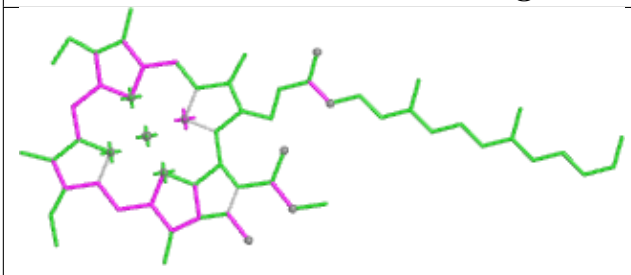


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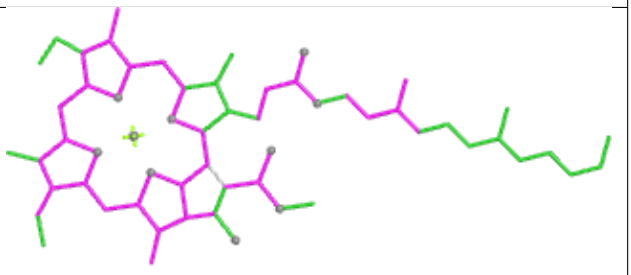


Rings

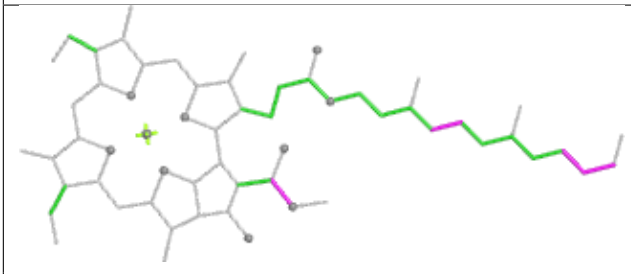
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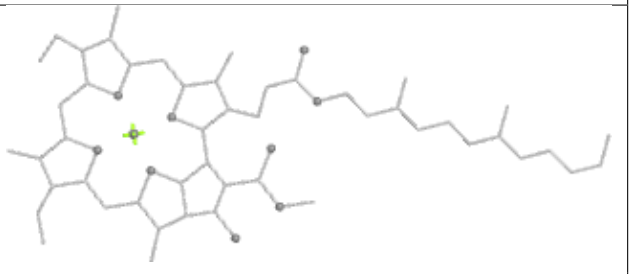
Bond lengths



Bond angles

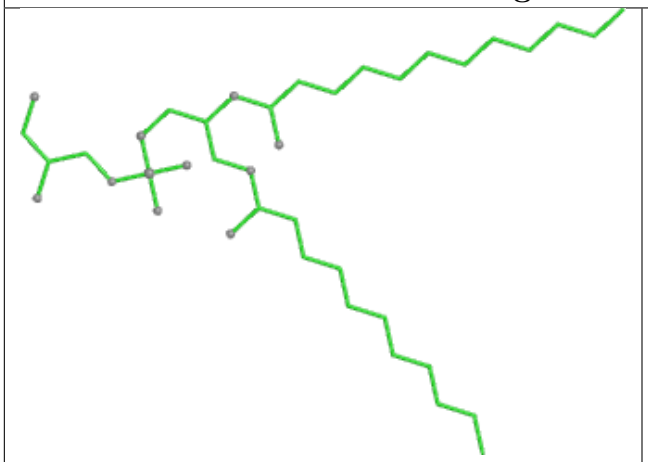


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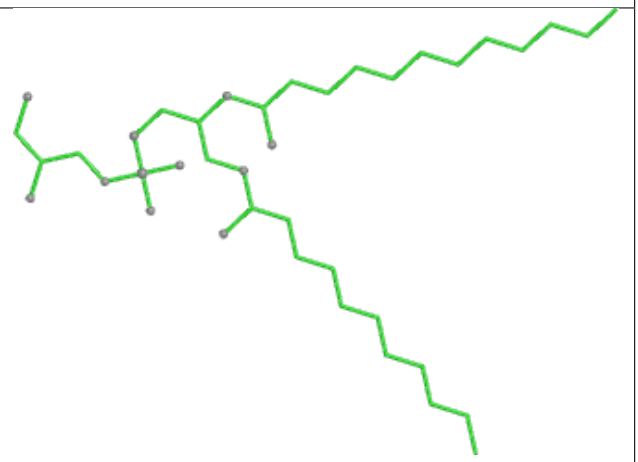


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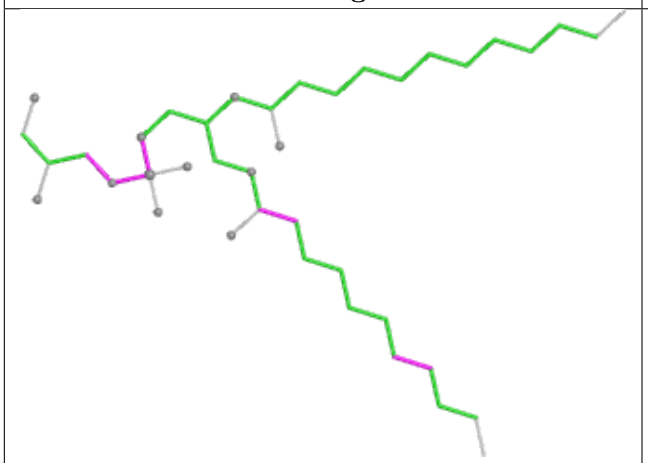
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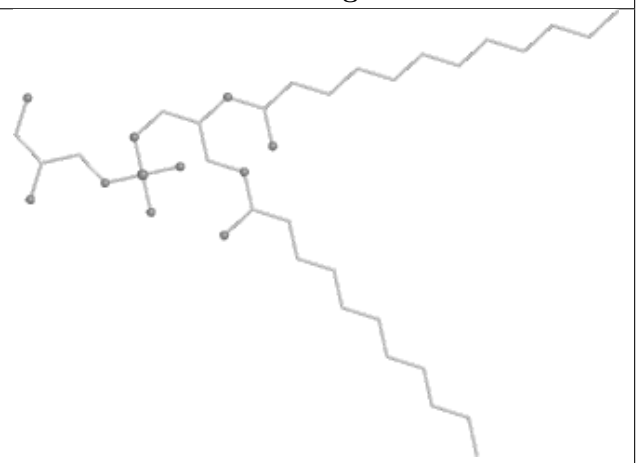
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Bond angles

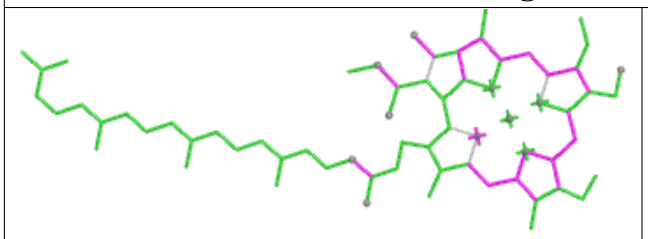


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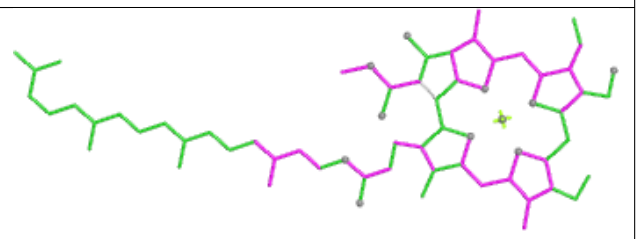


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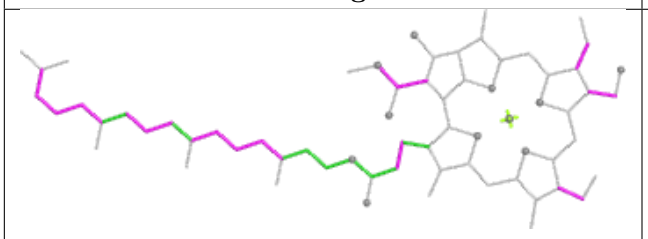
Ligand CHL 1n 607



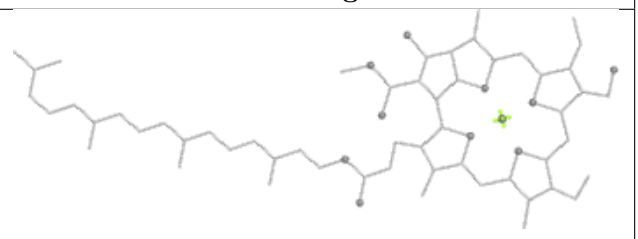
Bond lengths



Bond angles

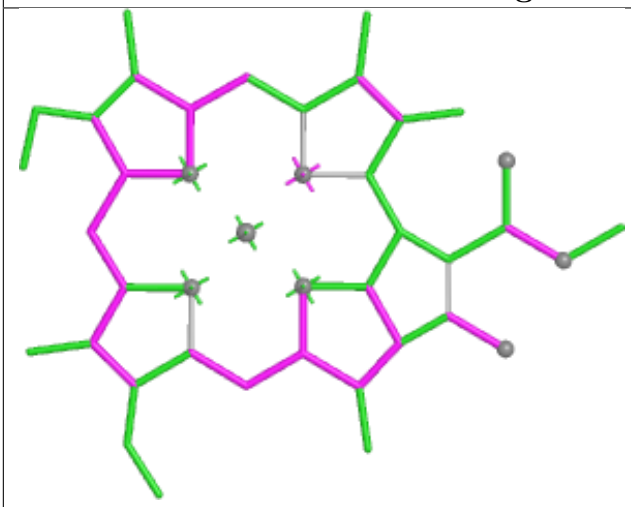


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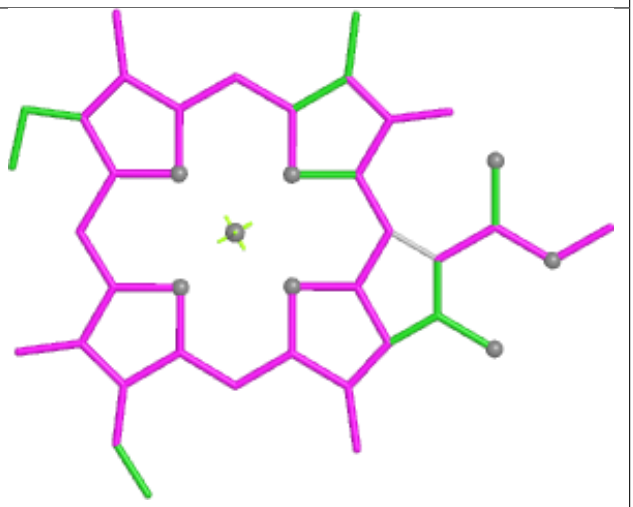


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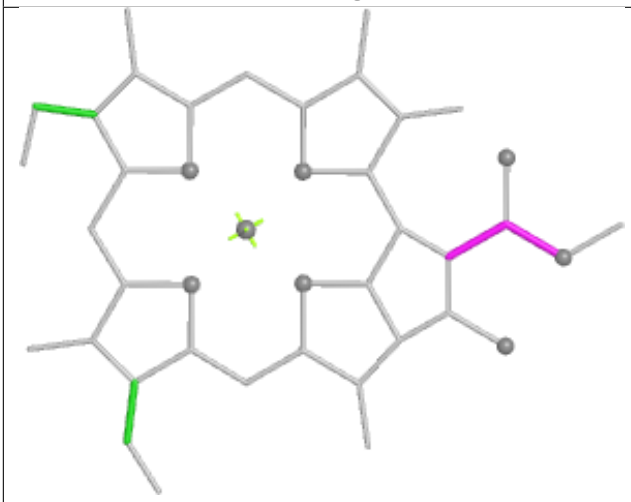
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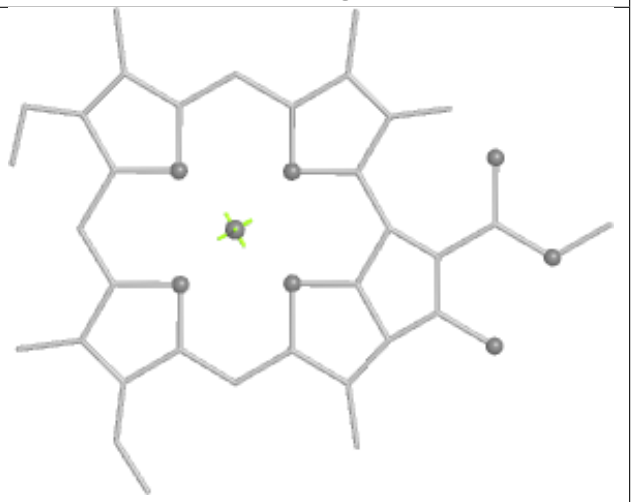
Bond lengths



Bond angles

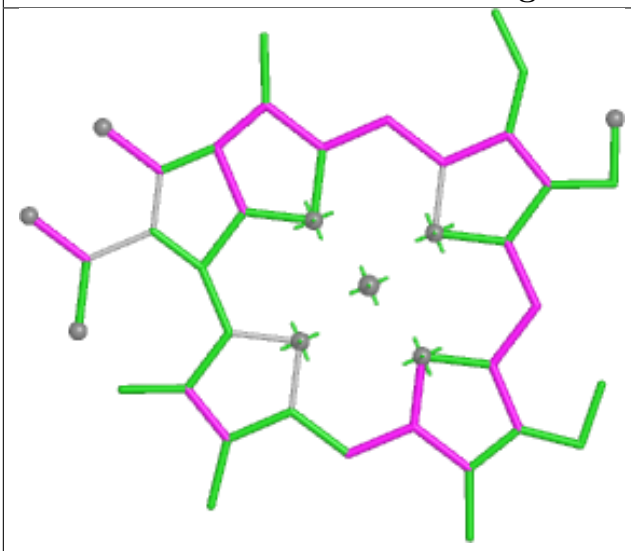


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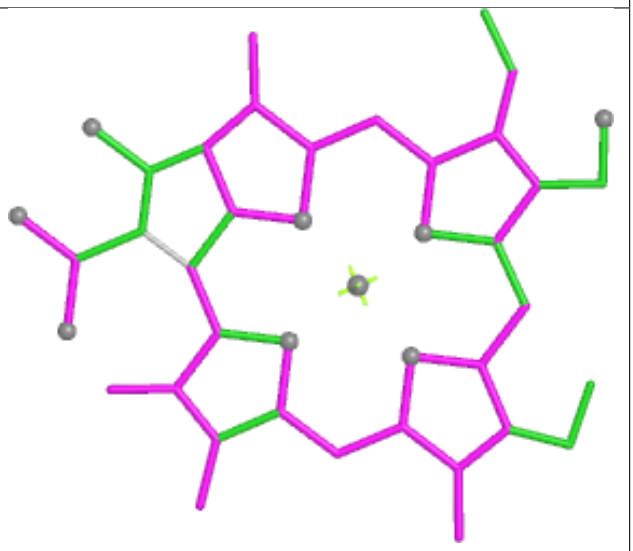


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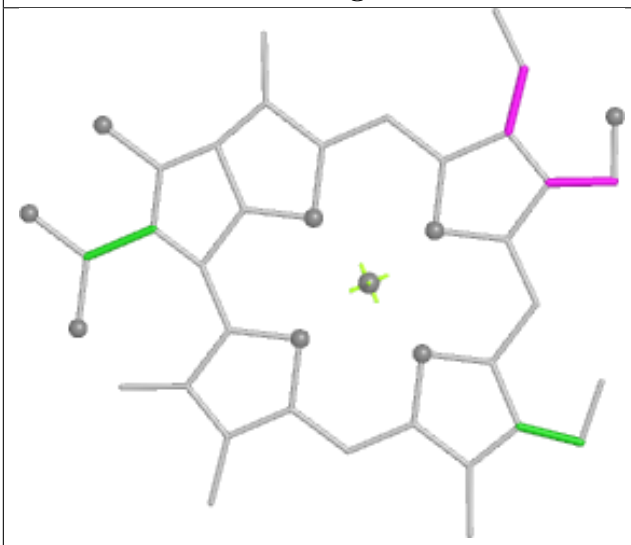
Ligand CHL 08 301



Bond lengths



Bond angles

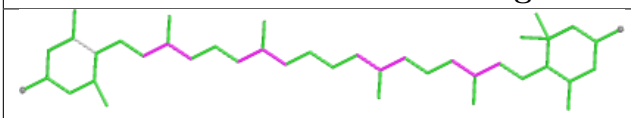


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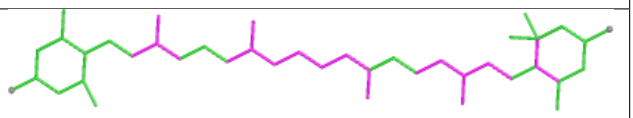


Rings

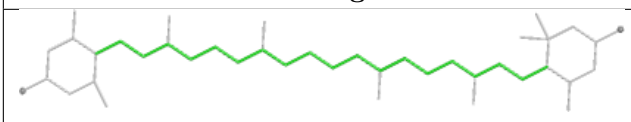
Ligand LUT 1N 316



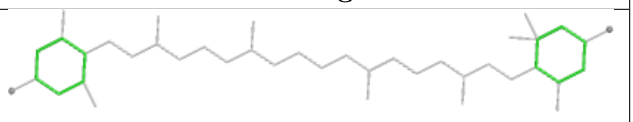
Bond lengths



Bond angles

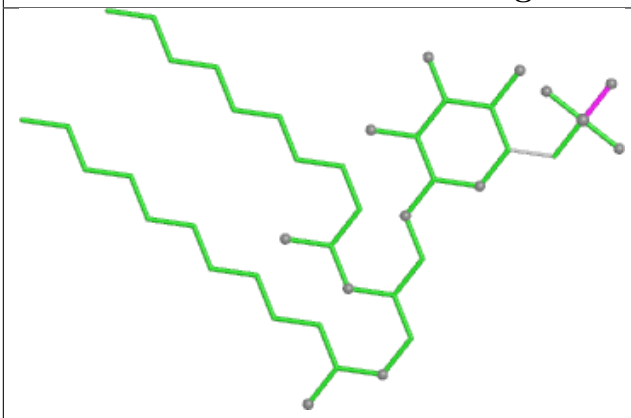


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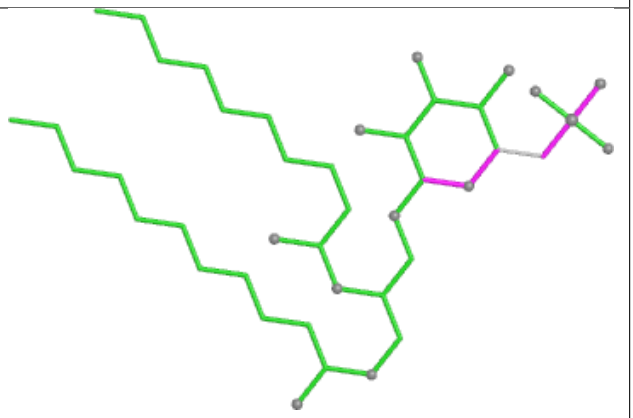


Rings

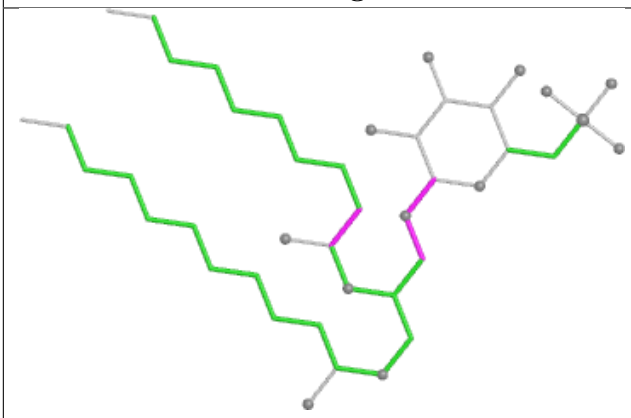
Ligand SQD 1D 412



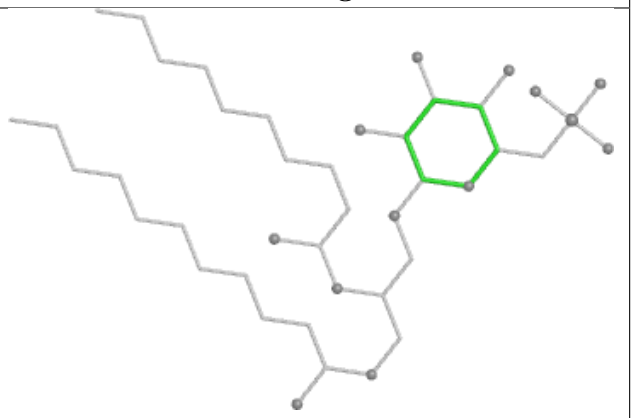
Bond lengths



Bond angles

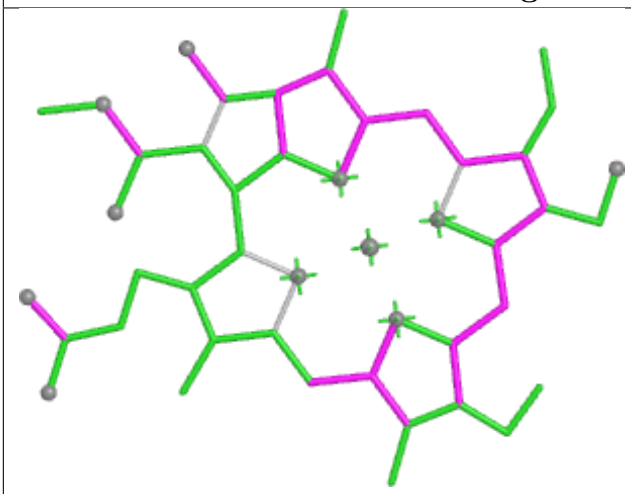


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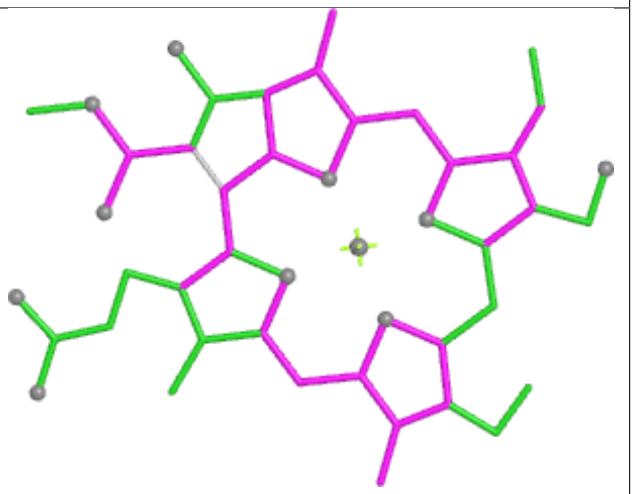


Rings

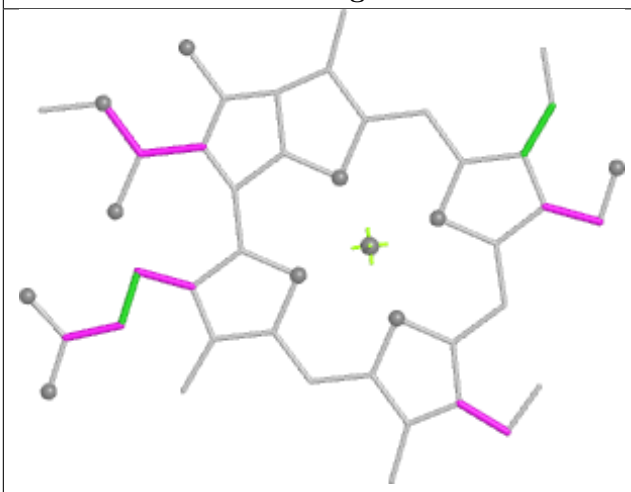
Ligand CHL 1s 308



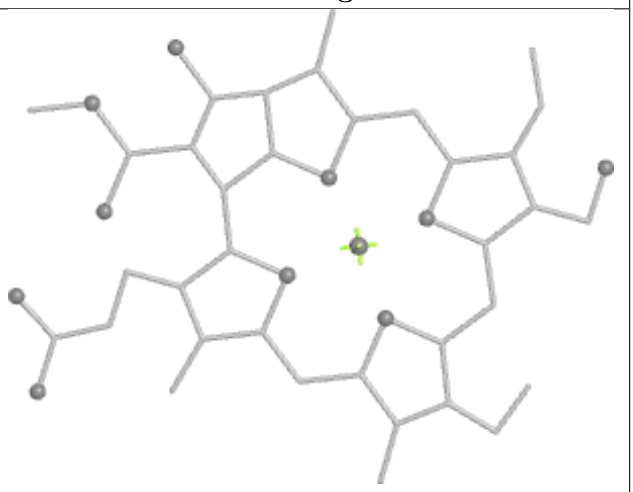
Bond lengths



Bond angles

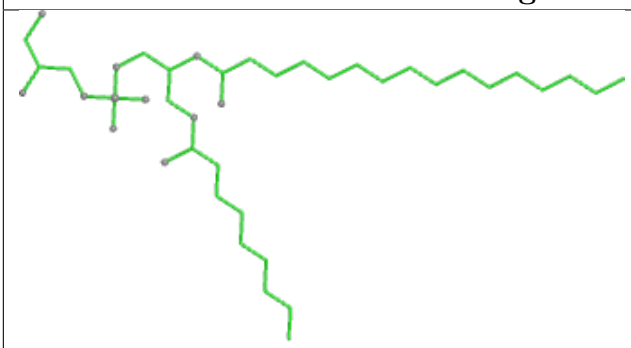


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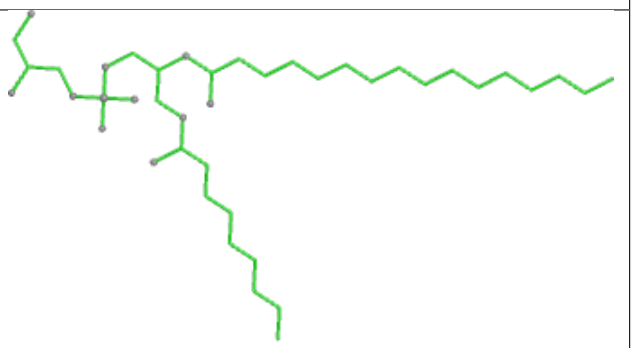


Rings

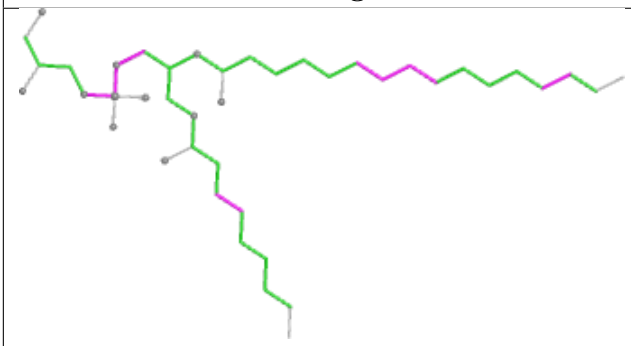
Ligand LHG 1c 521



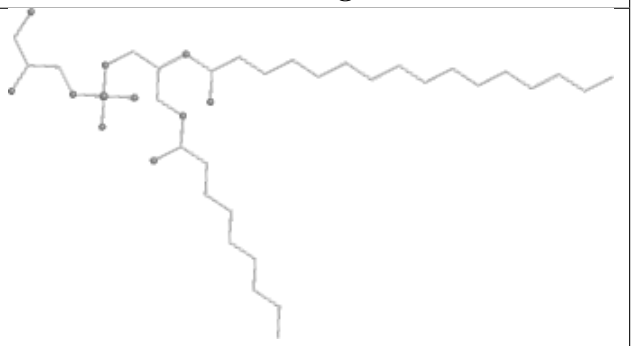
Bond lengths



Bond angles

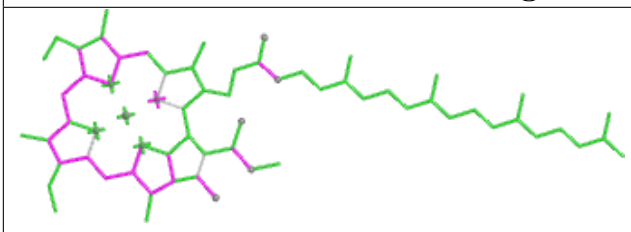


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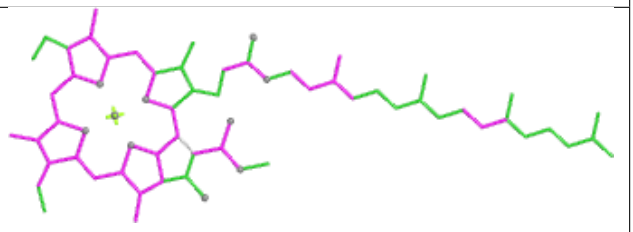


Rings

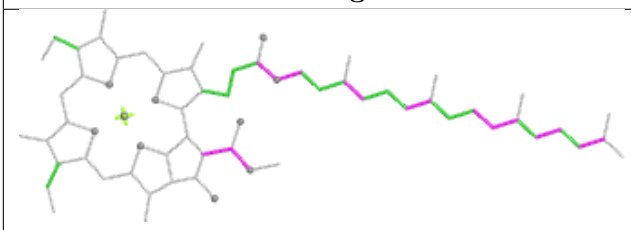
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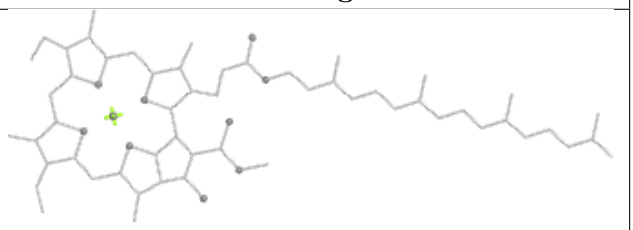
Bond lengths



Bond angles

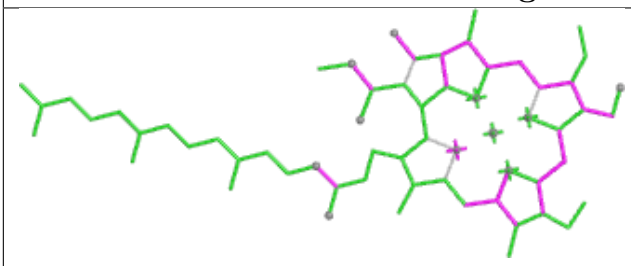


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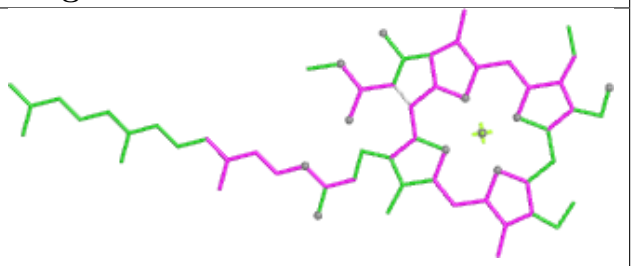


Rings

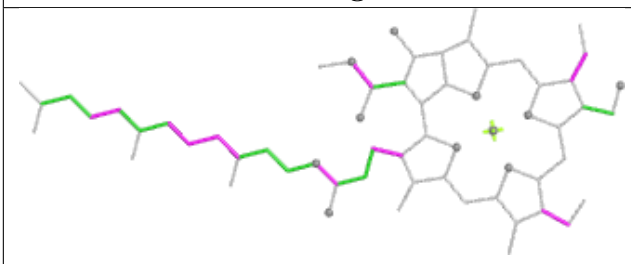
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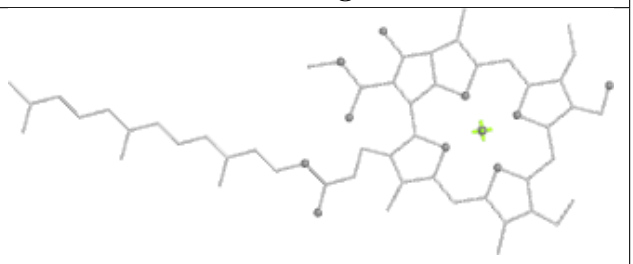
Bond lengths



Bond angles

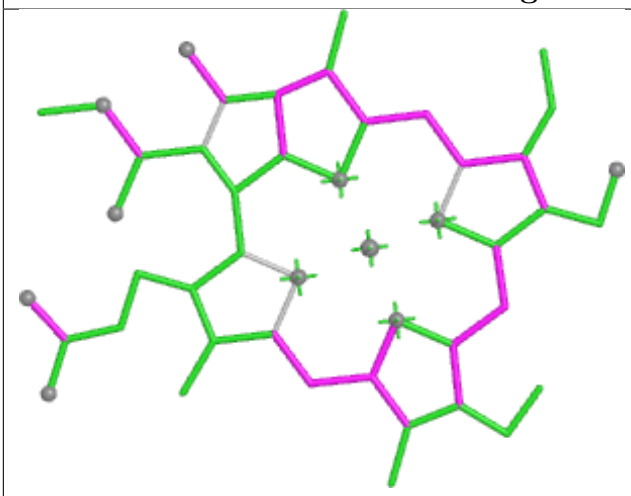


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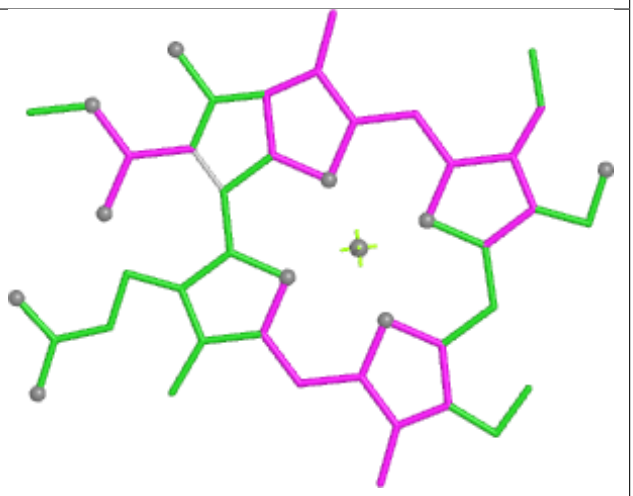


Rings

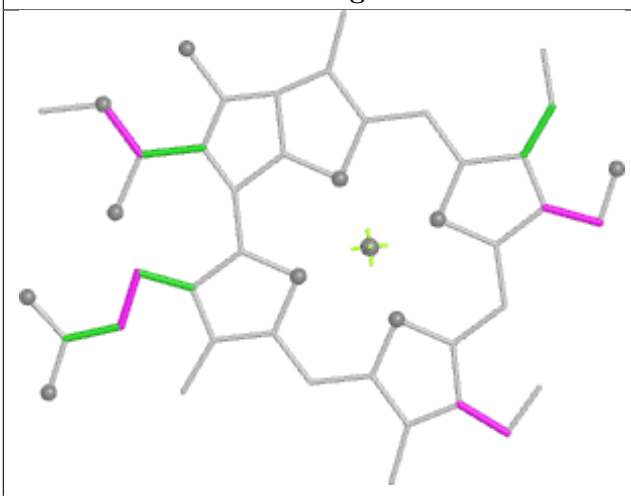
Ligand CHL 1r 307



Bond lengths



Bond angles

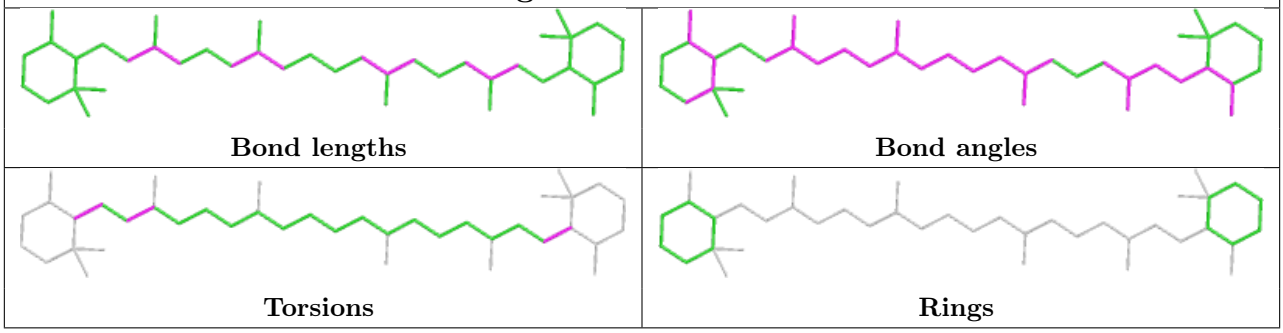


Torsions

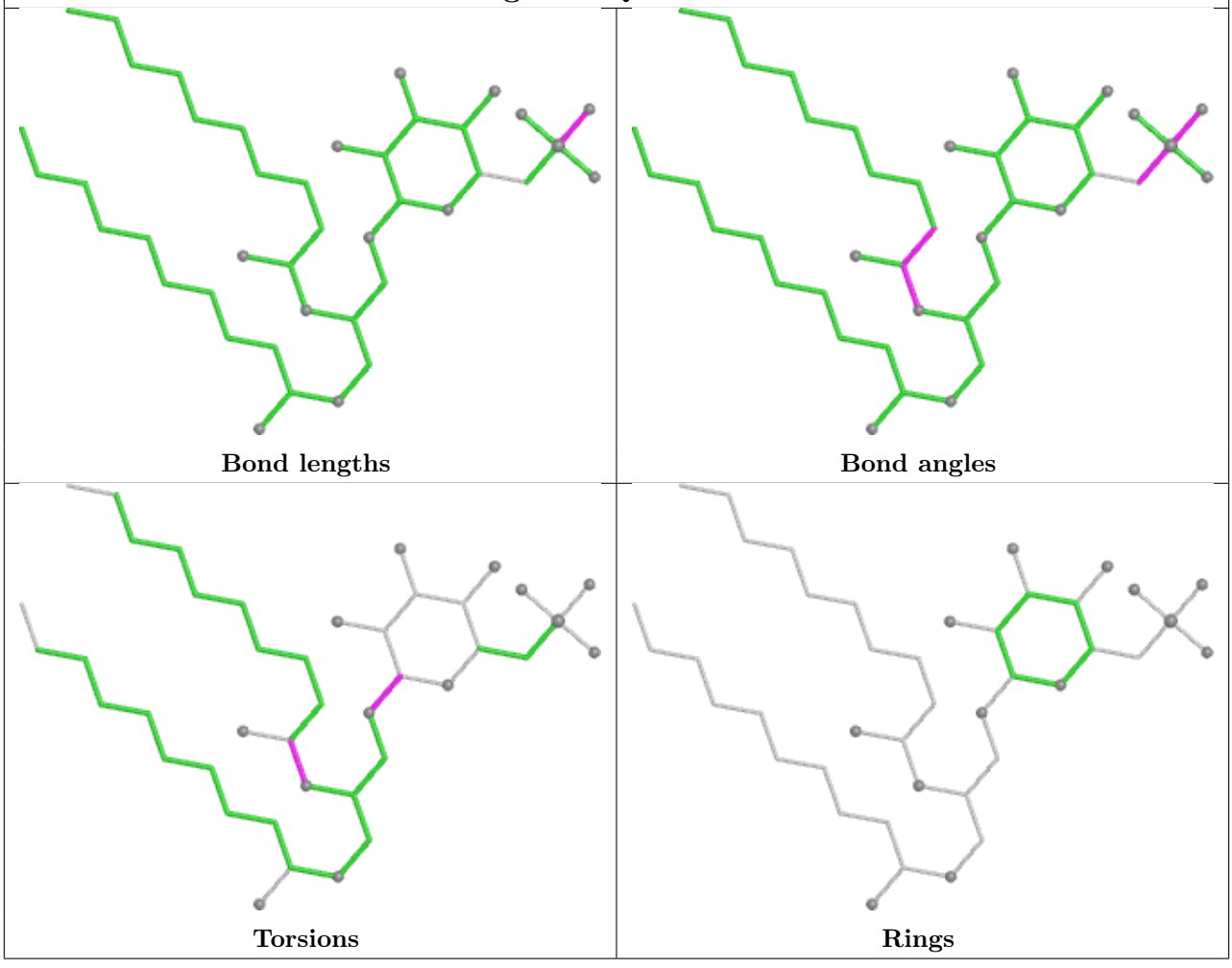


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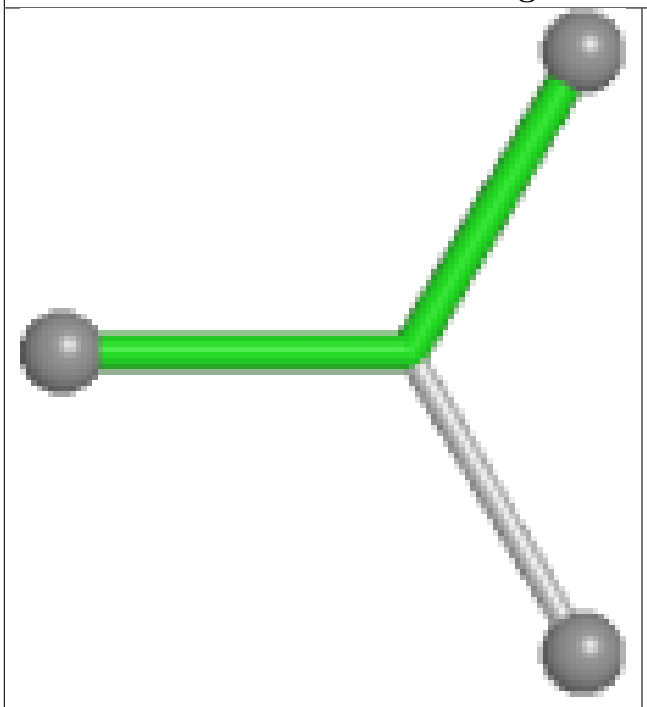
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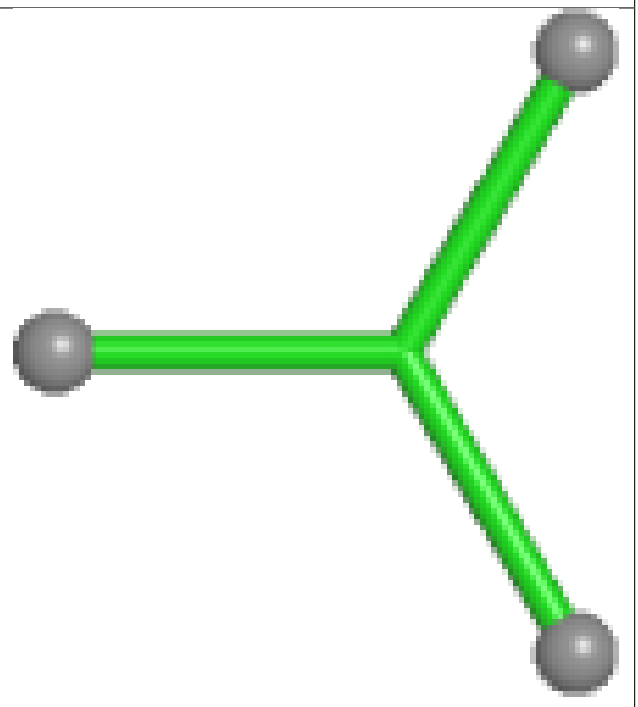
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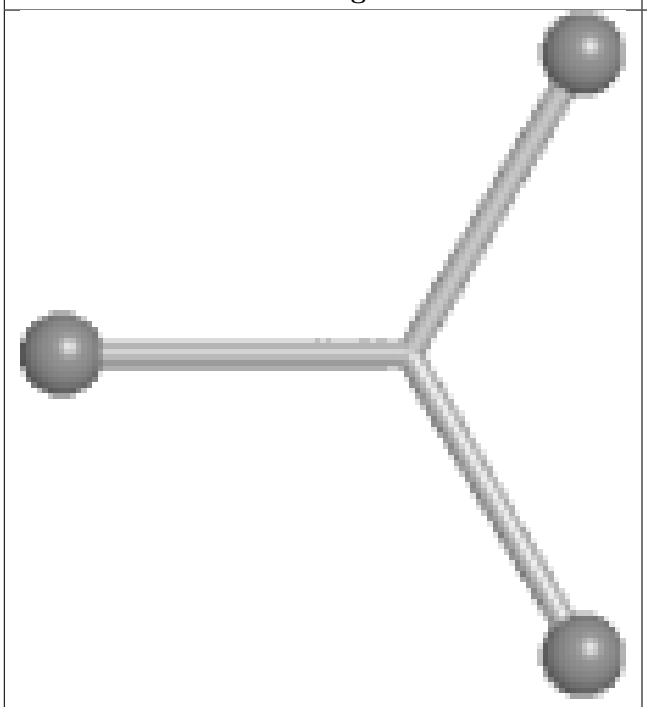
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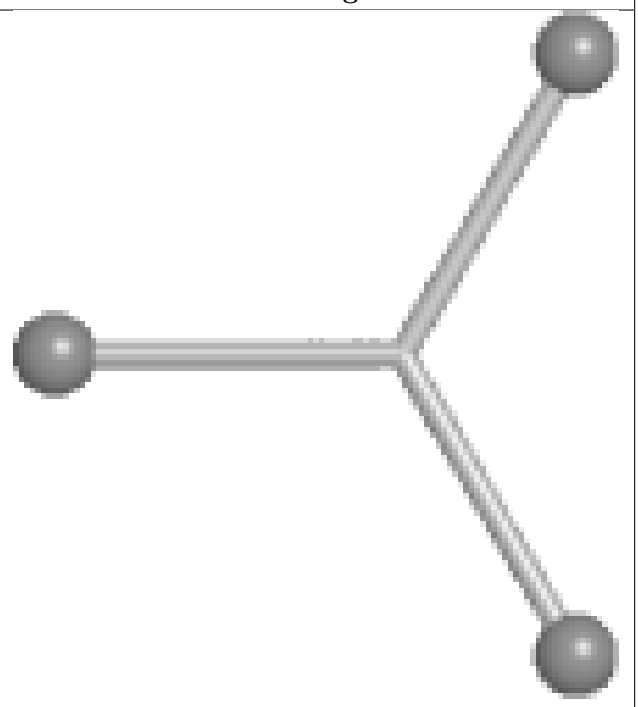
Bond lengths



Bond angles

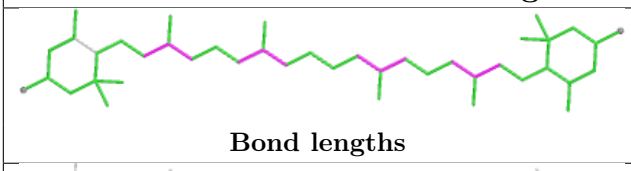


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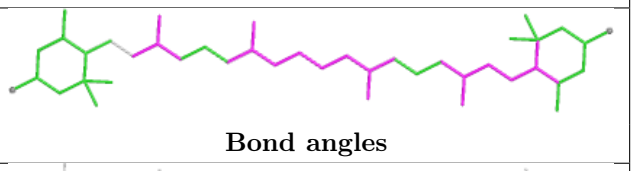


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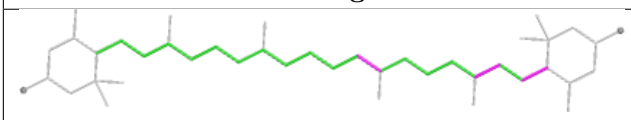
Ligand LUT 1s 317



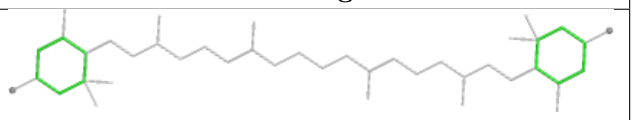
Bond lengths



Bond angles

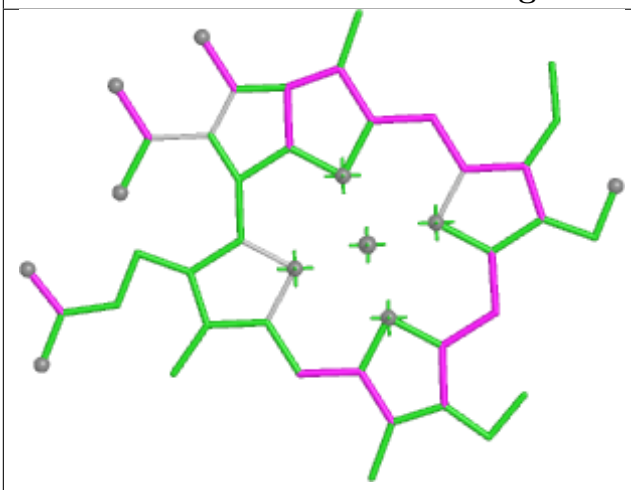


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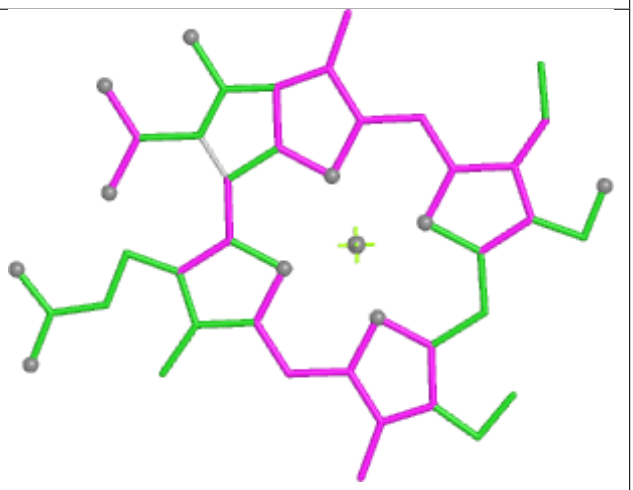


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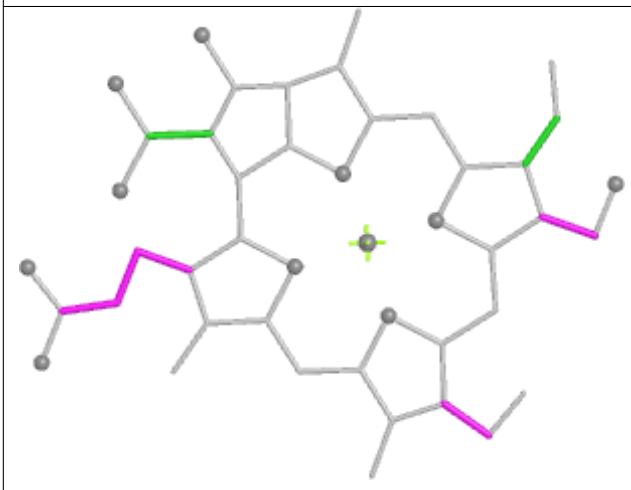
Ligand CHL 03 303



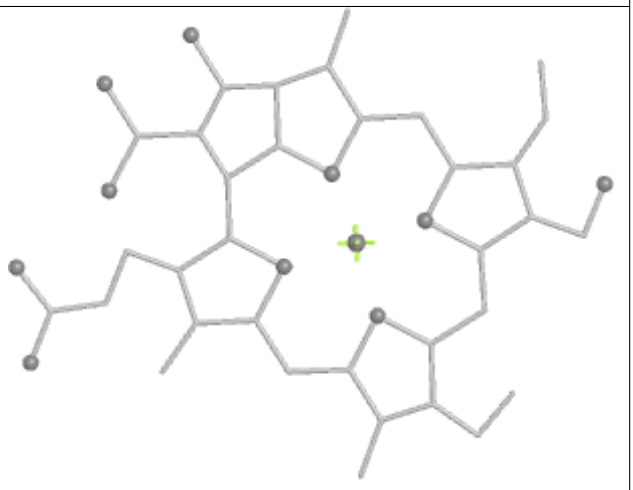
Bond lengths



Bond angles

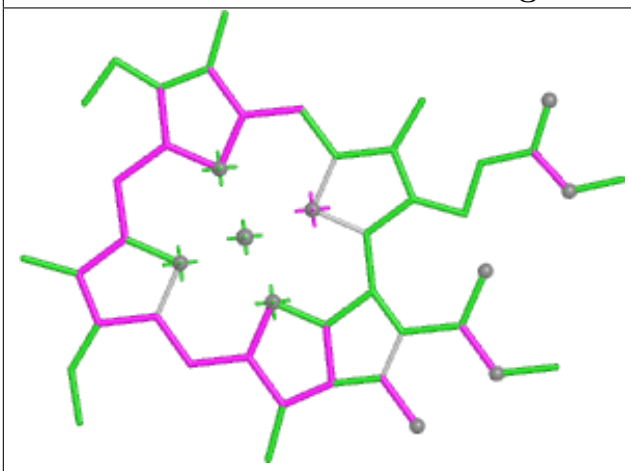


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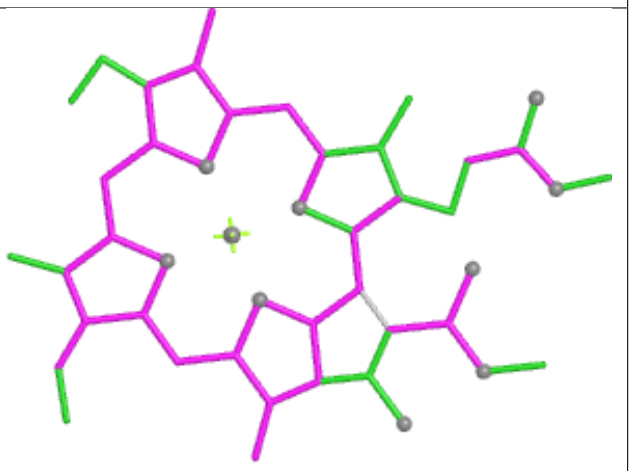


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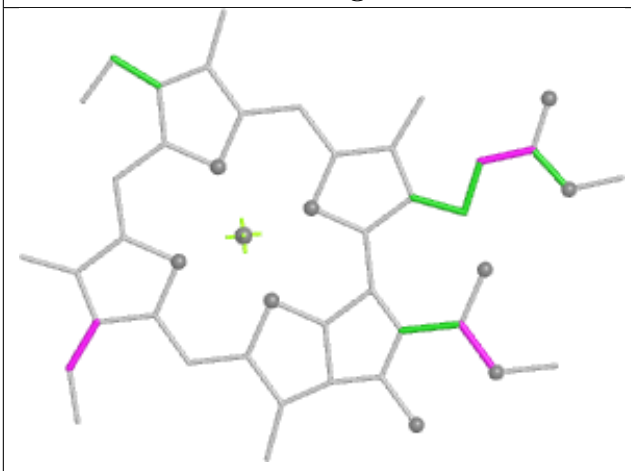
Ligand CLA 01 312



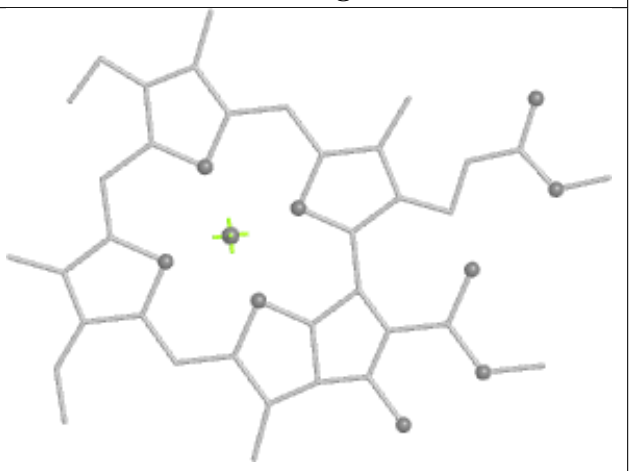
Bond lengths



Bond angles

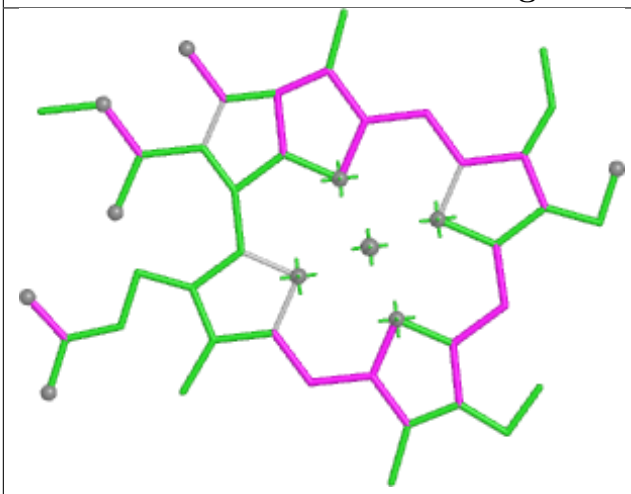


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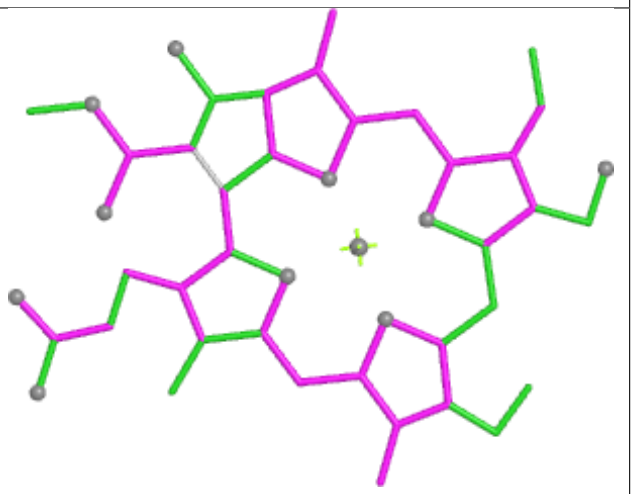


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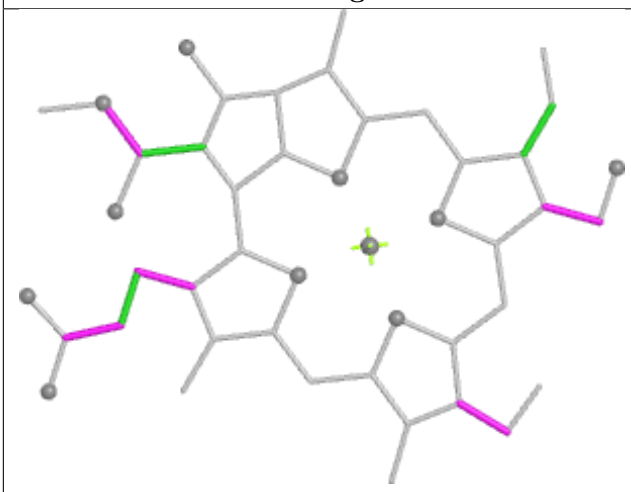
Ligand CHL 04 301



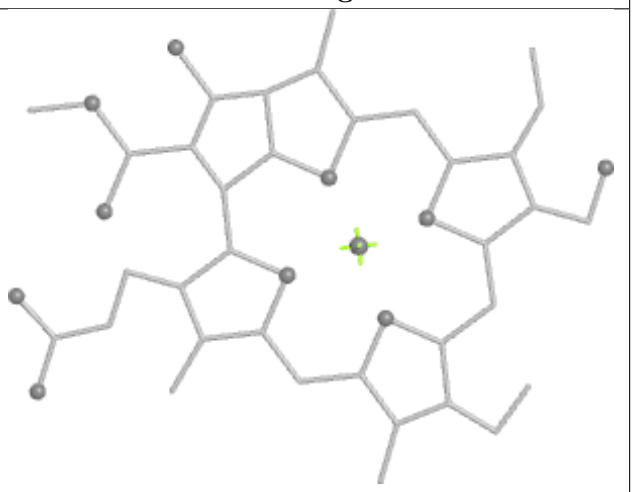
Bond lengths



Bond angles

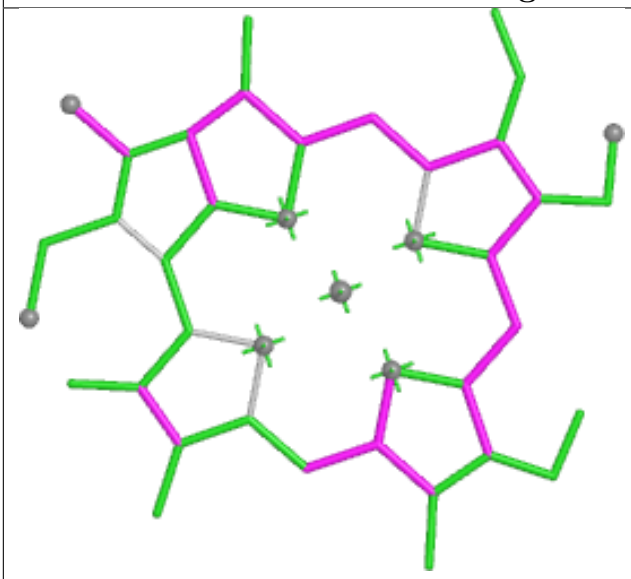


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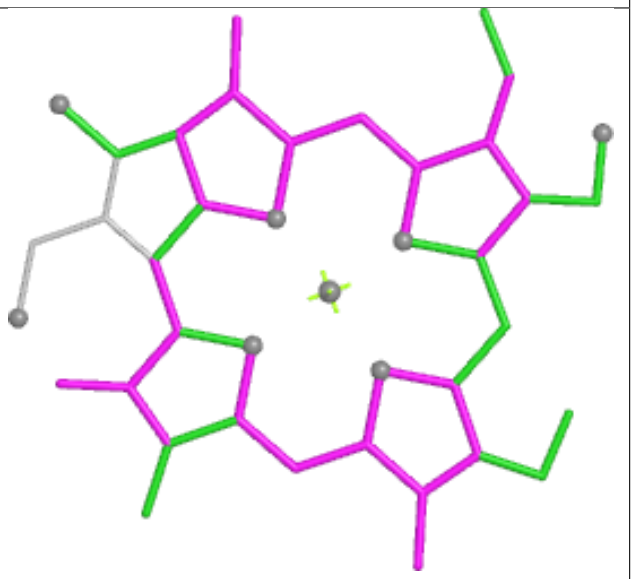


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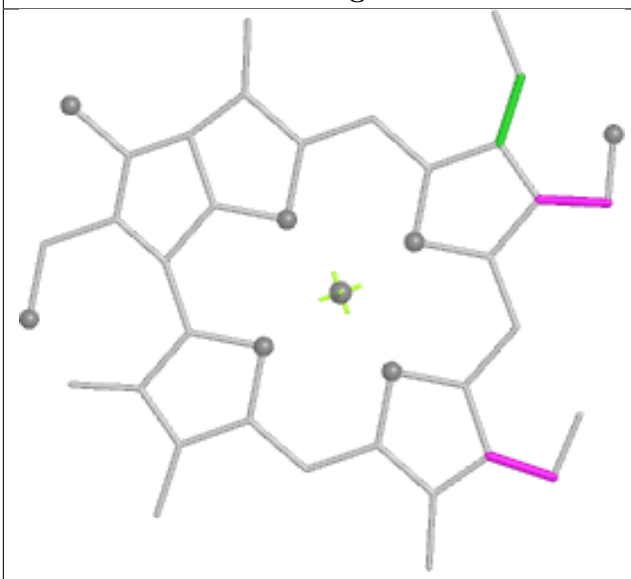
Ligand CHL 03 302



Bond lengths



Bond angles

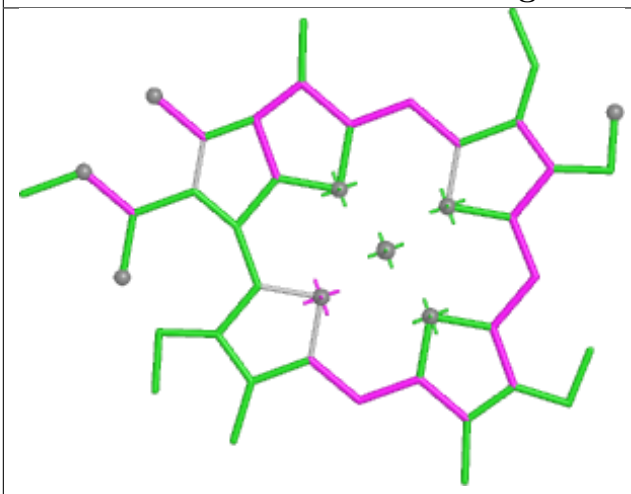


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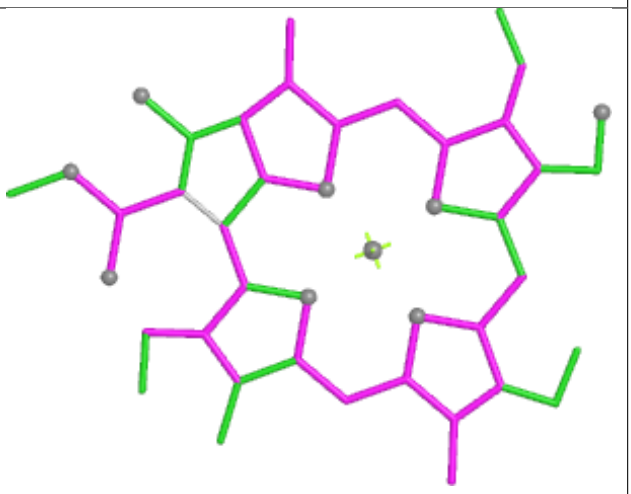


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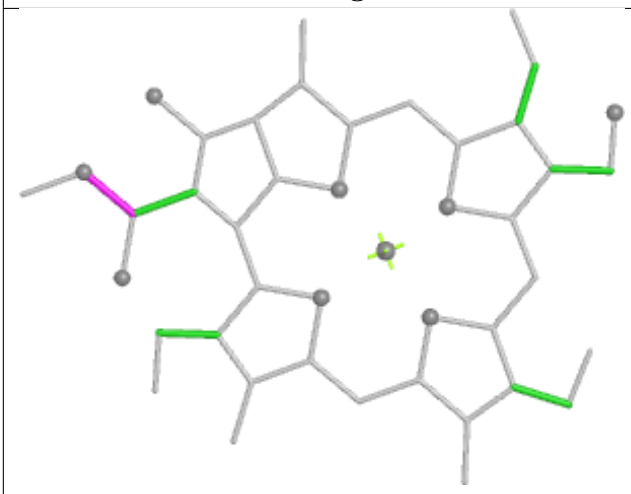
Ligand CHL 09 307



Bond lengths



Bond angles

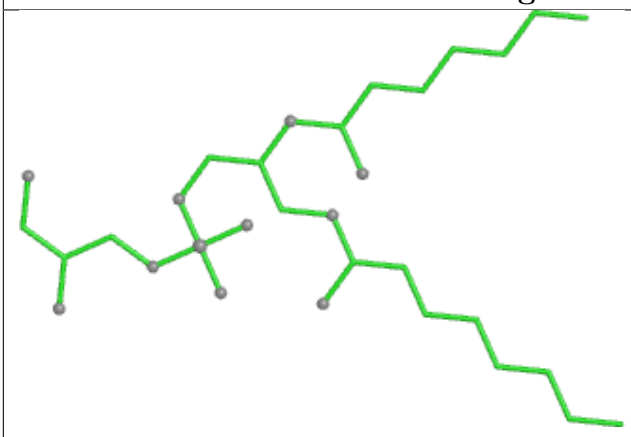


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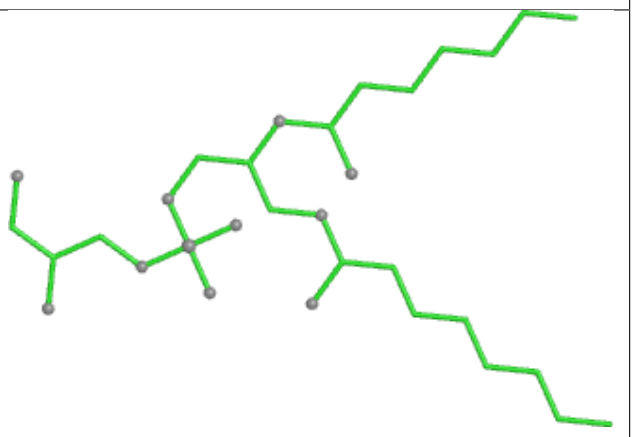


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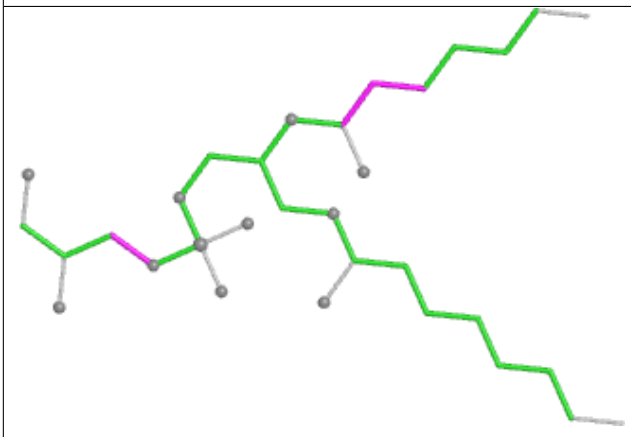
Ligand LHG 1a 401



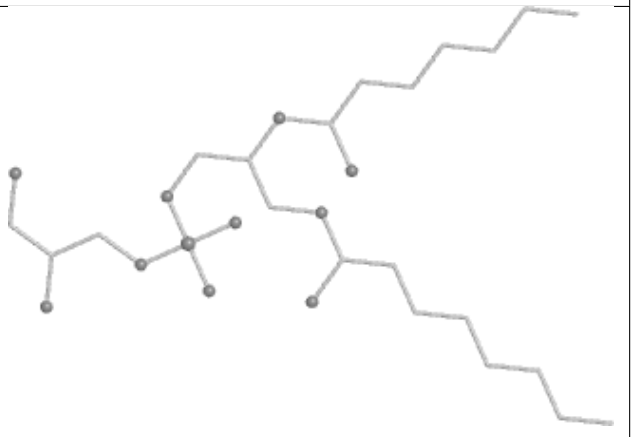
Bond lengths



Bond angles

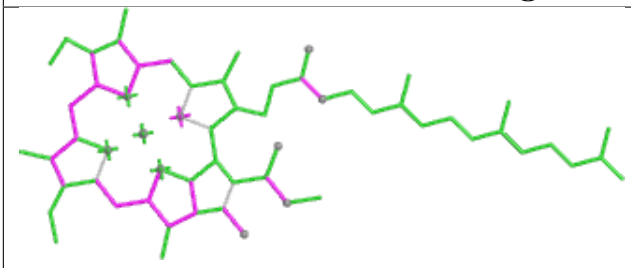


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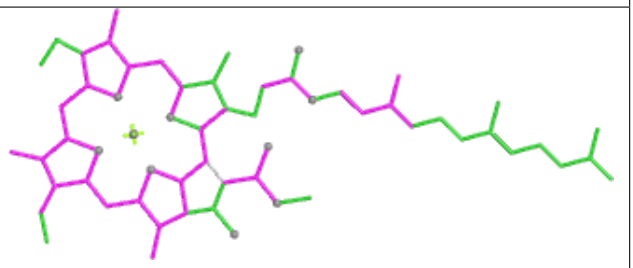


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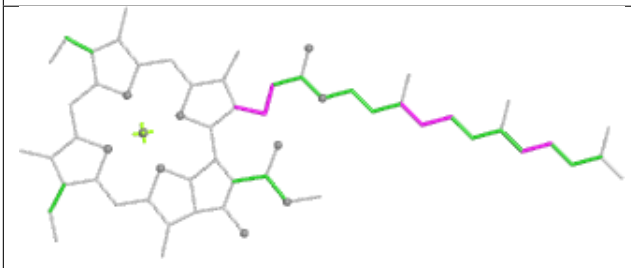
Ligand CLA 03 301



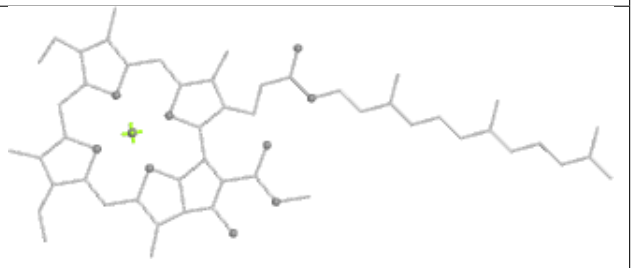
Bond lengths



Bond angles

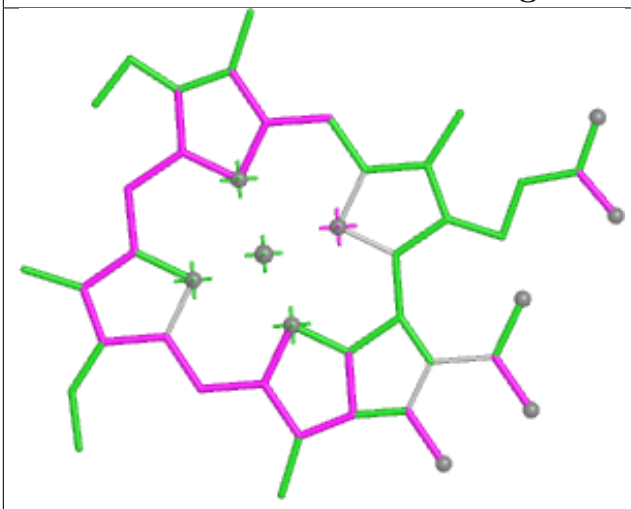


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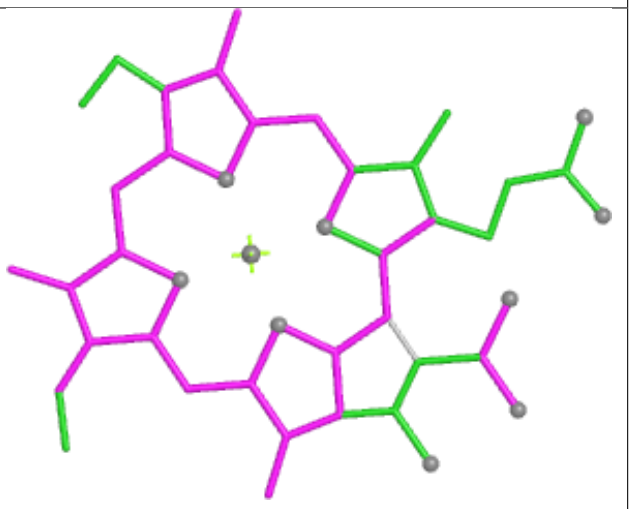


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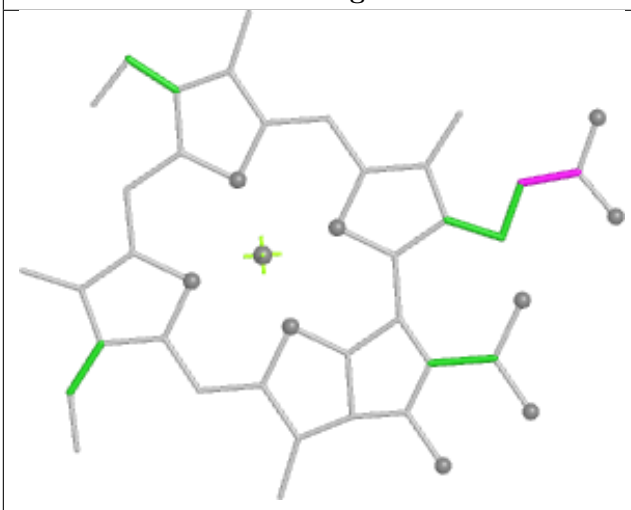
Ligand CLA 04 310



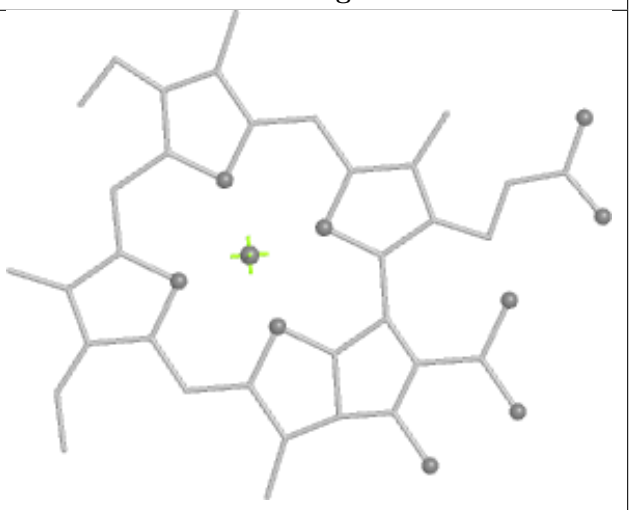
Bond lengths



Bond angles

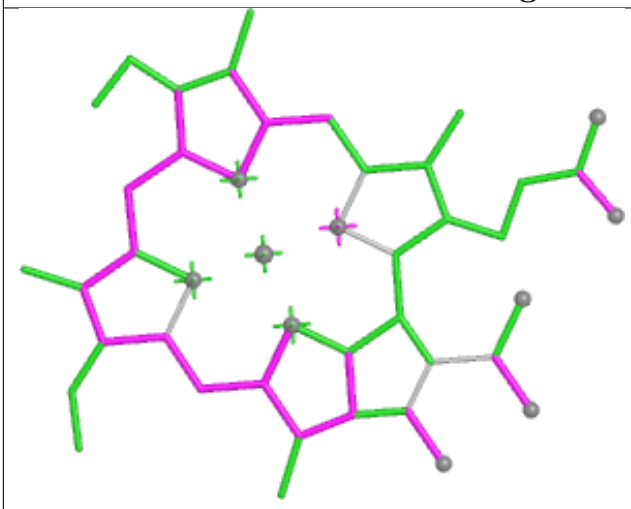


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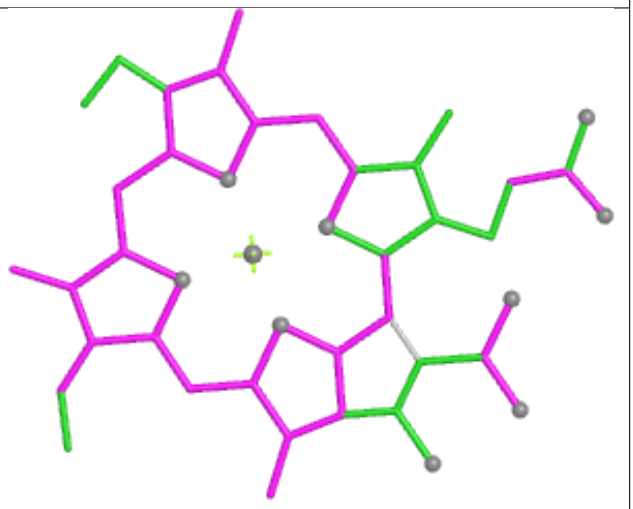


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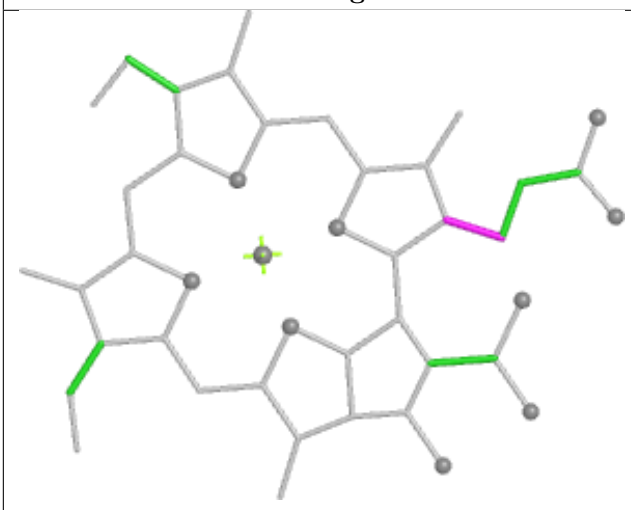
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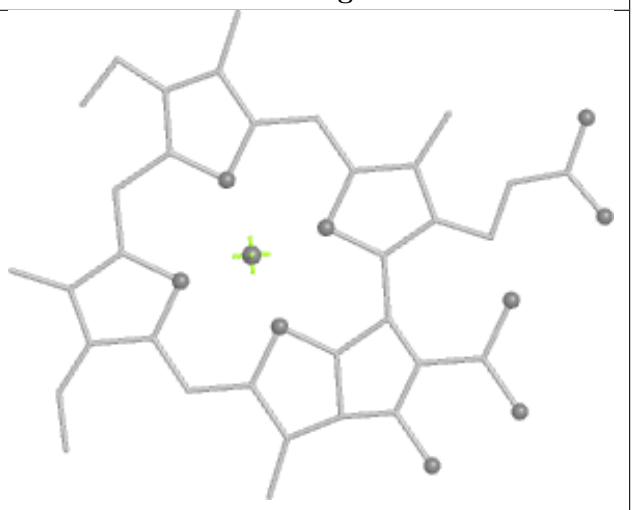
Bond lengths



Bond angles

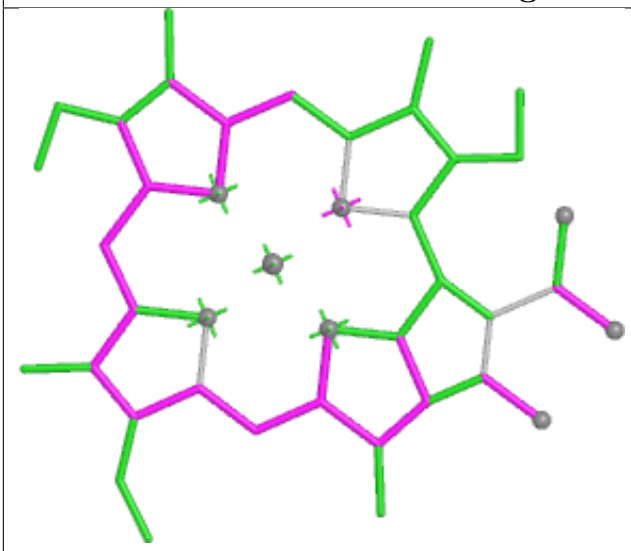


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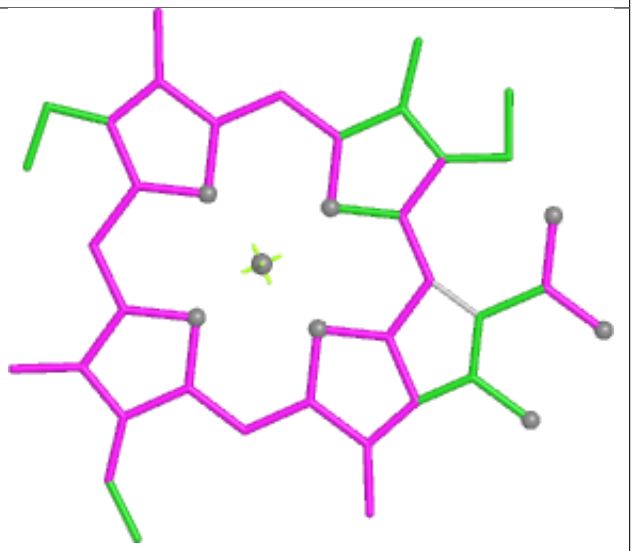


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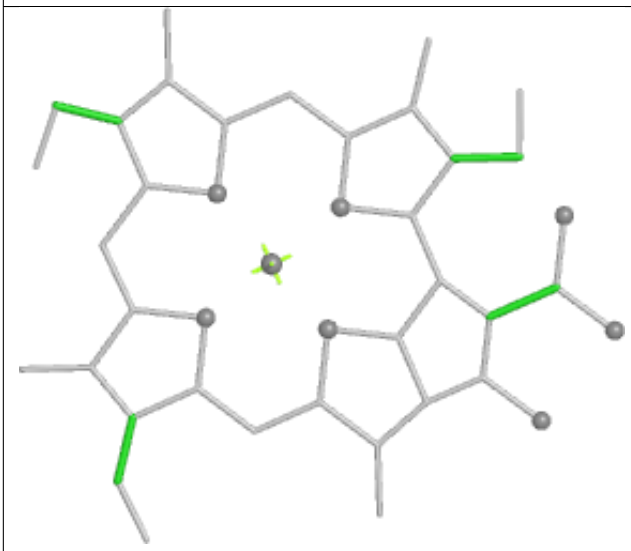
Ligand CLA 06 610



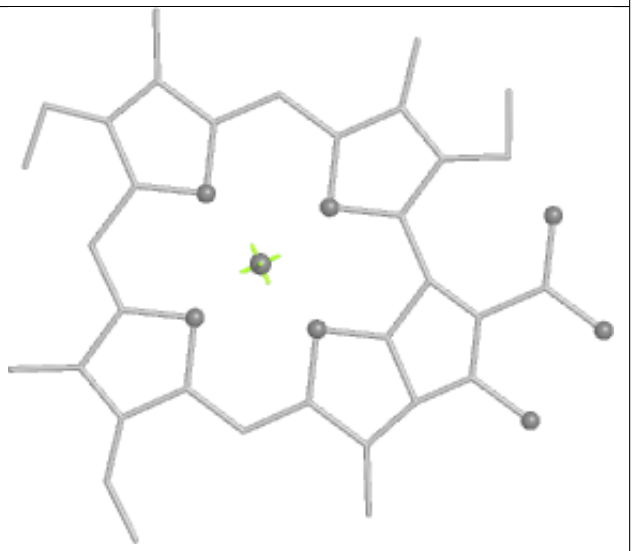
Bond lengths



Bond angles

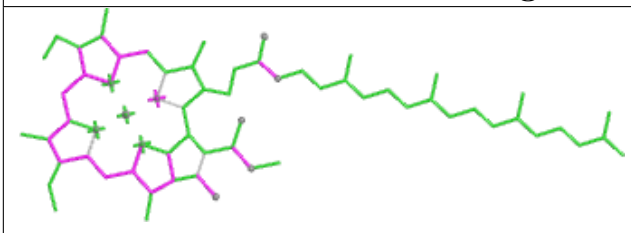


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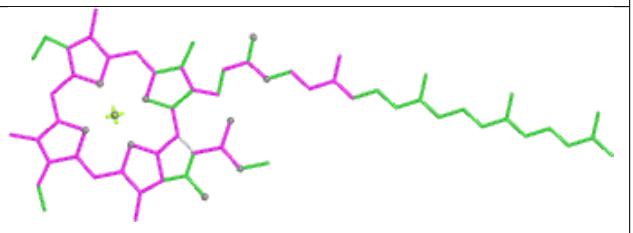


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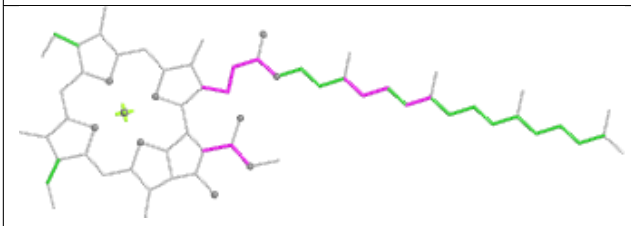
Ligand CLA 01 310



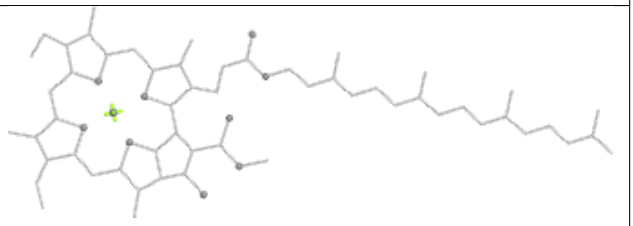
Bond lengths



Bond angles

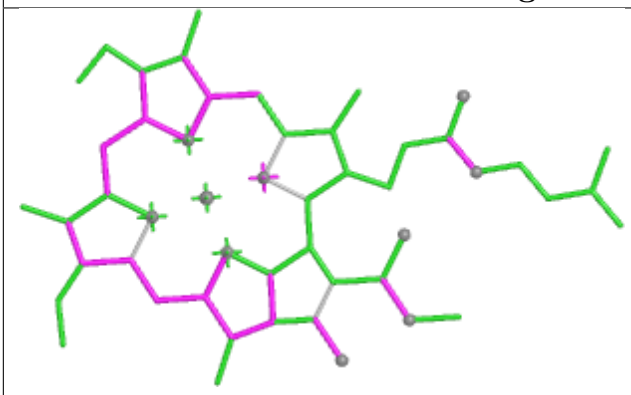


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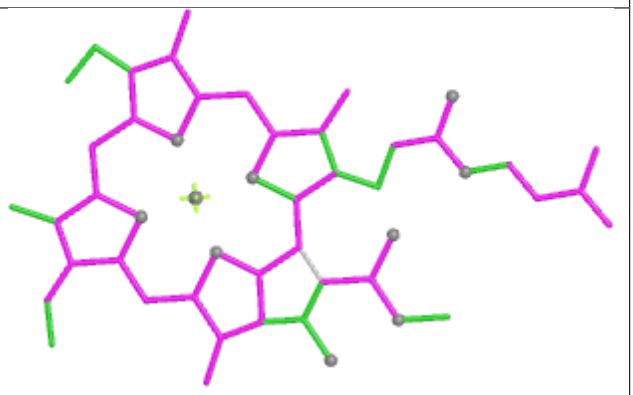


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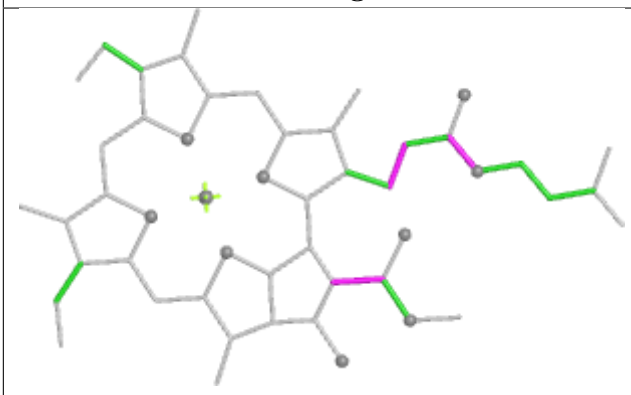
Ligand CLA 1b 607



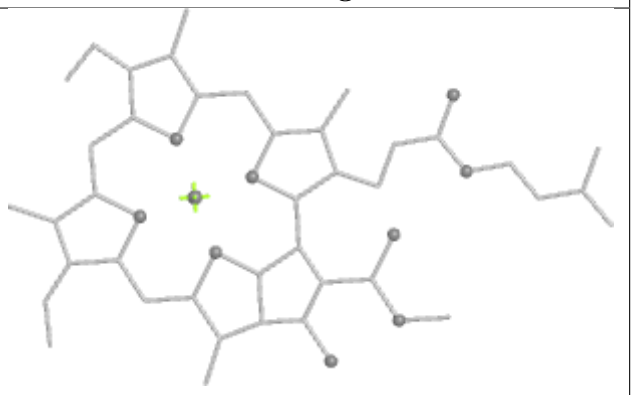
Bond lengths



Bond angles

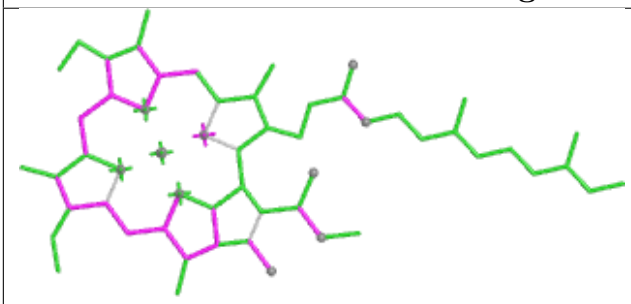


Torsions

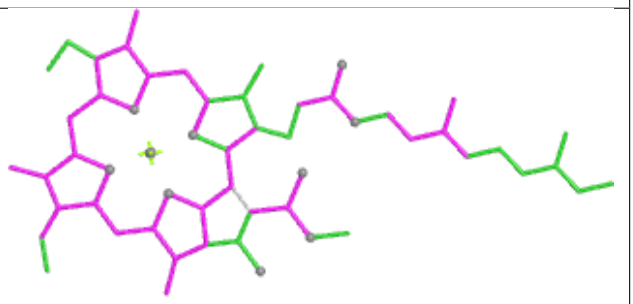


Rings

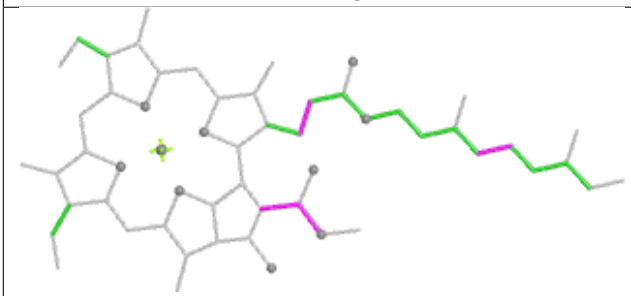
Ligand CLA 1n 602



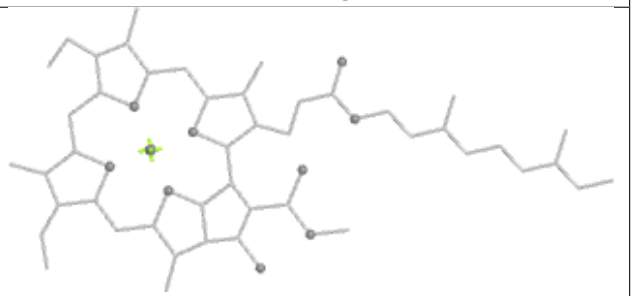
Bond lengths



Bond angles

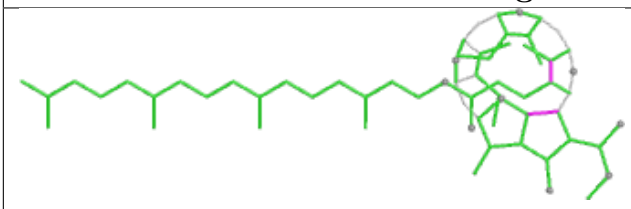


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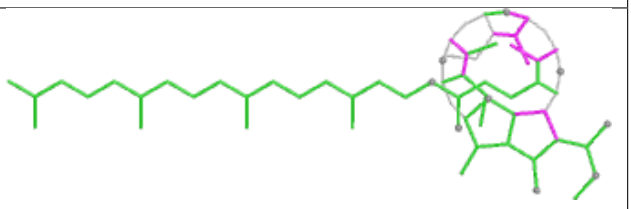


Rings

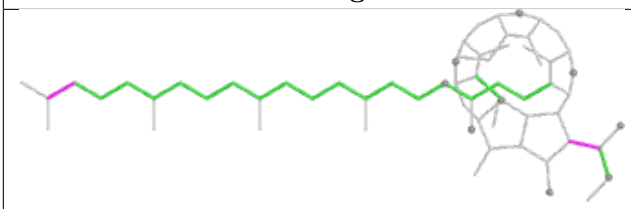
Ligand PHO 1d 404



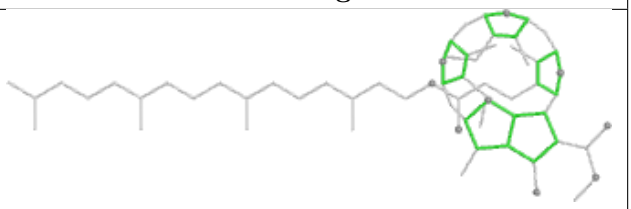
Bond lengths



Bond angles

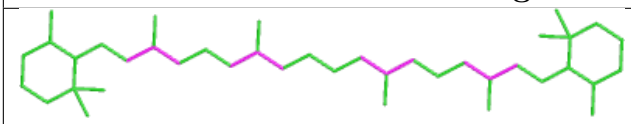


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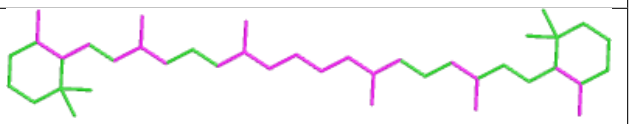


Rings

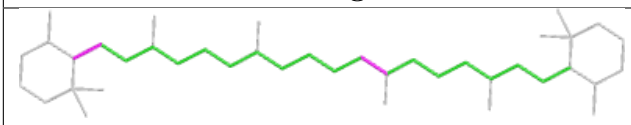
Ligand BCR 1A 409



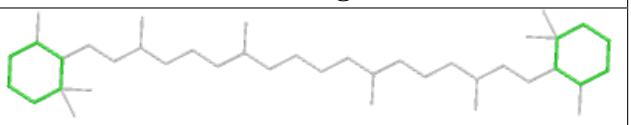
Bond lengths



Bond angles

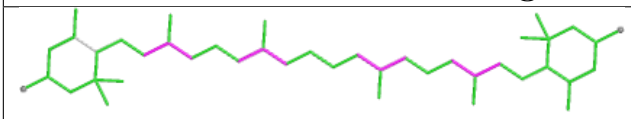


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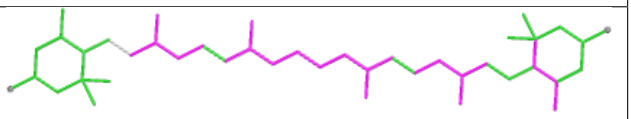


Rings

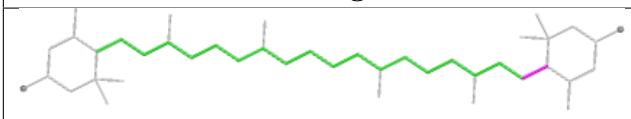
Ligand LUT 1S 318



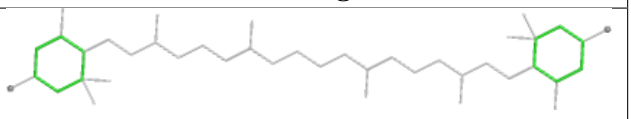
Bond lengths



Bond angles

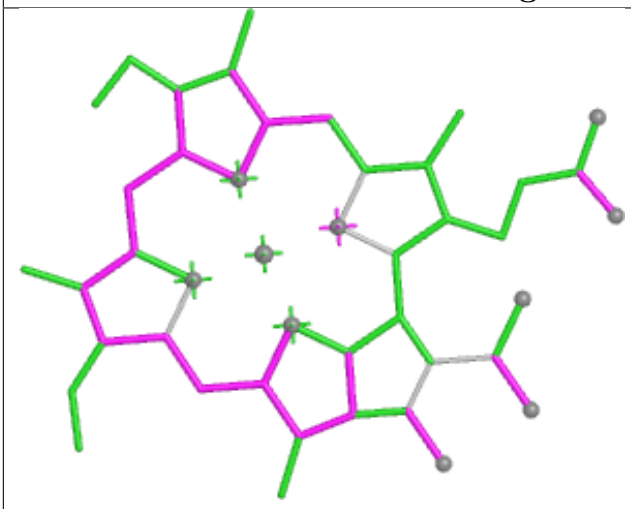


Torsions

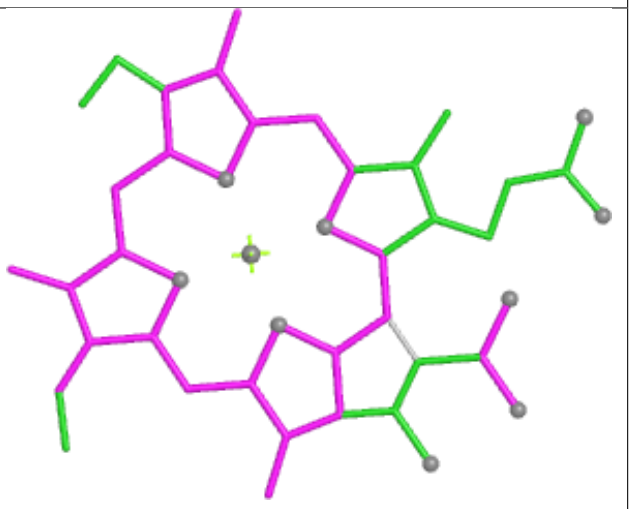


Rings

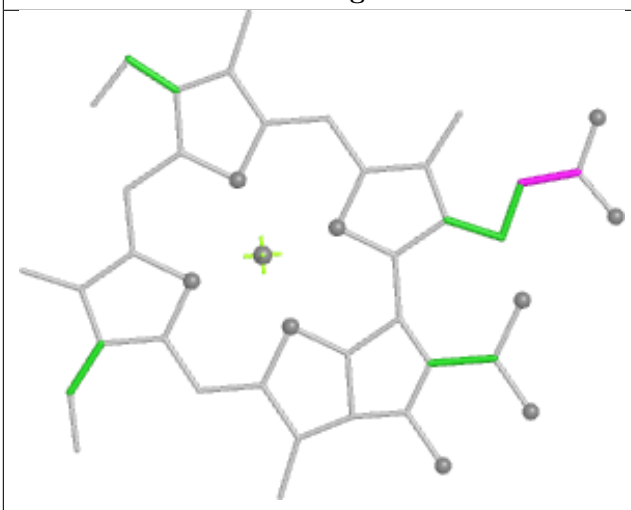
Ligand CLA 03 312



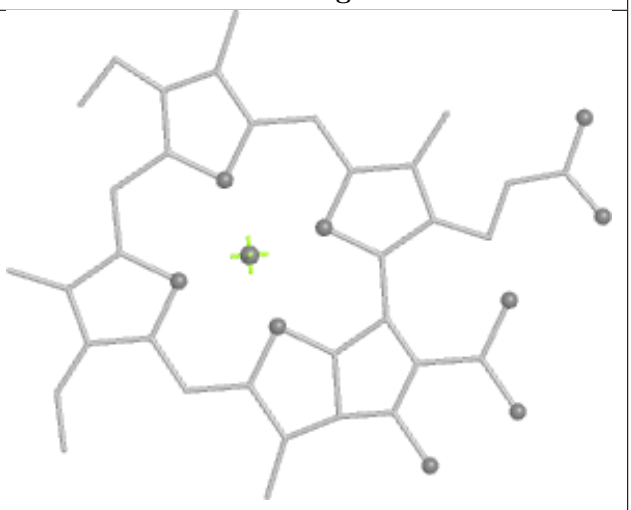
Bond lengths



Bond angles

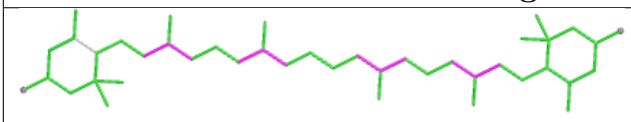


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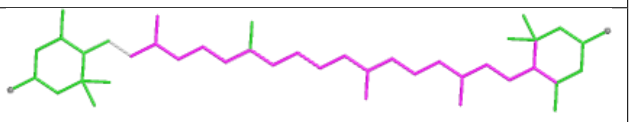


Rings

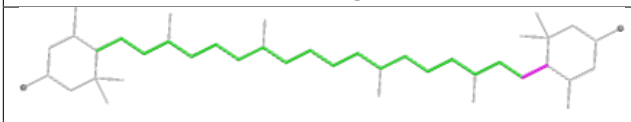
Ligand LUT 01 315



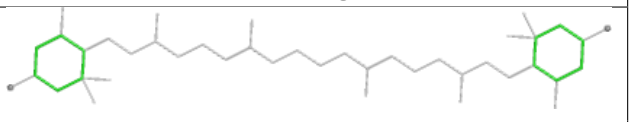
Bond lengths



Bond angles

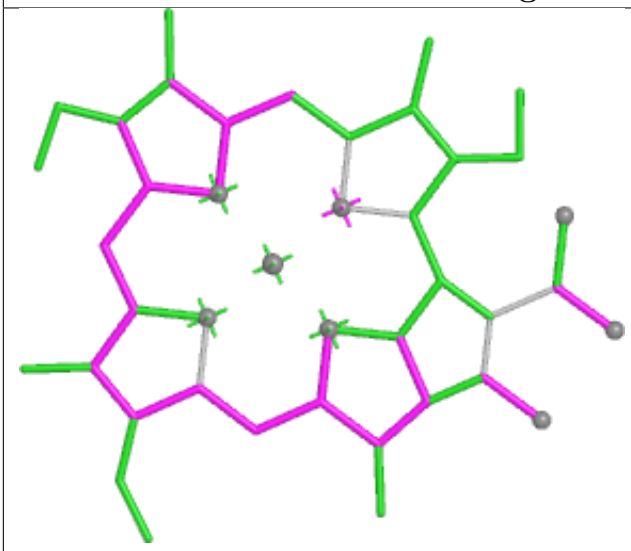


Torsions

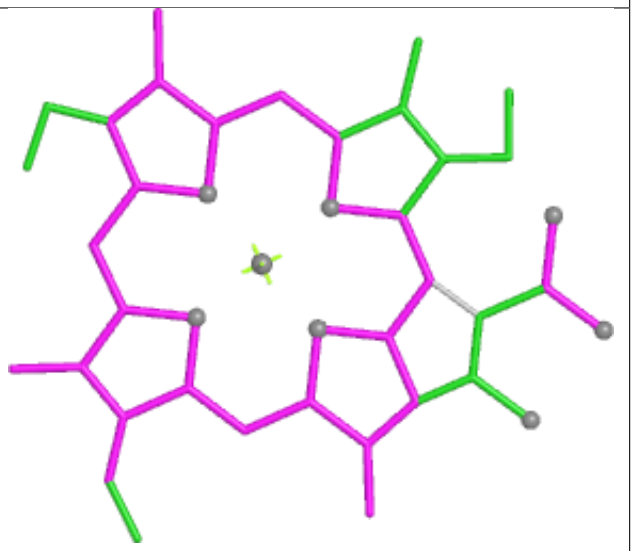


Rings

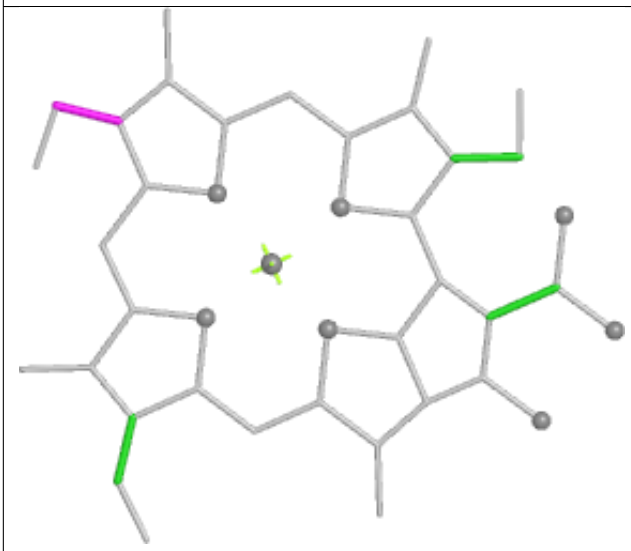
Ligand CLA 05 310



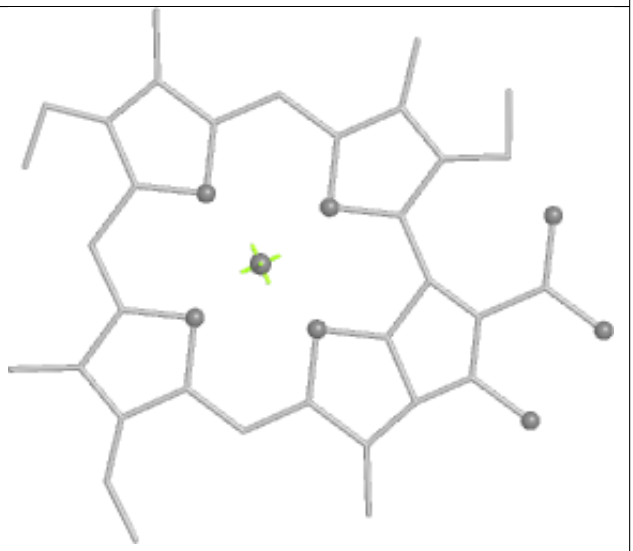
Bond lengths



Bond angles

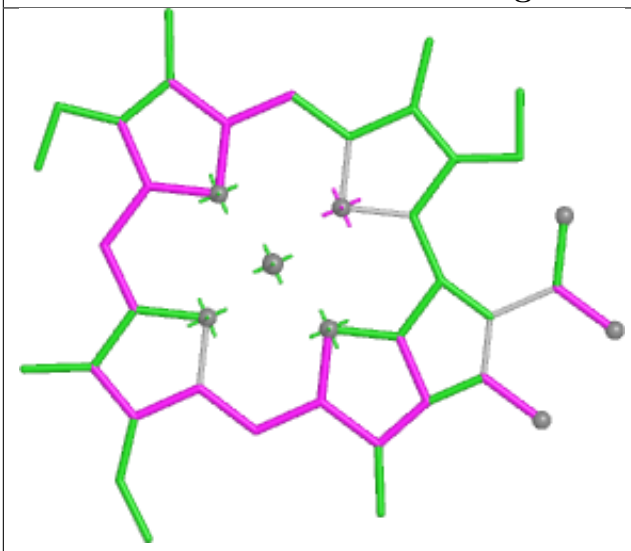


Torsions

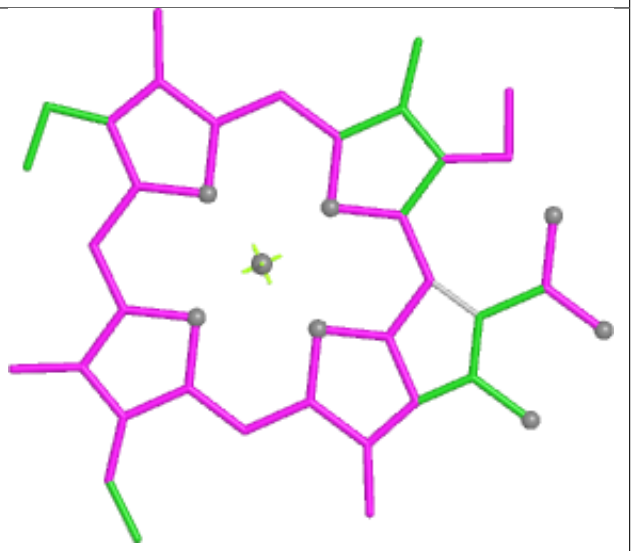


Rings

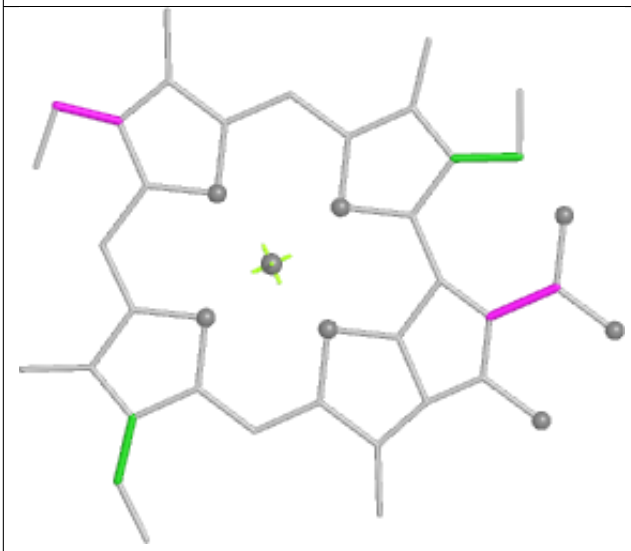
Ligand CLA 1N 313



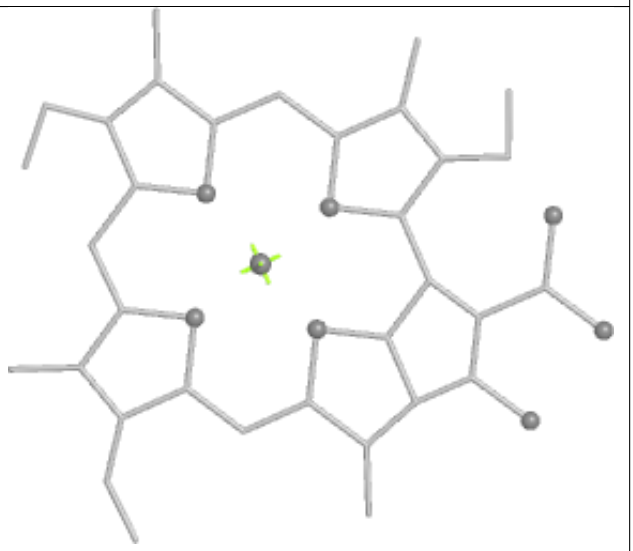
Bond lengths



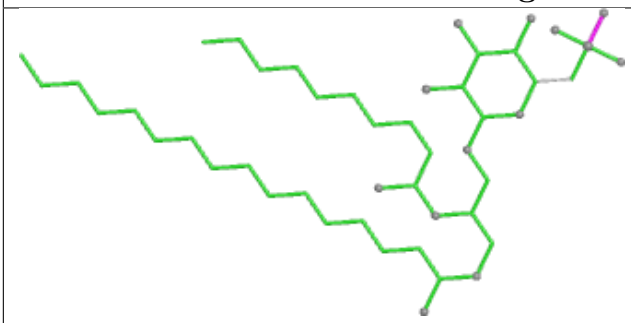
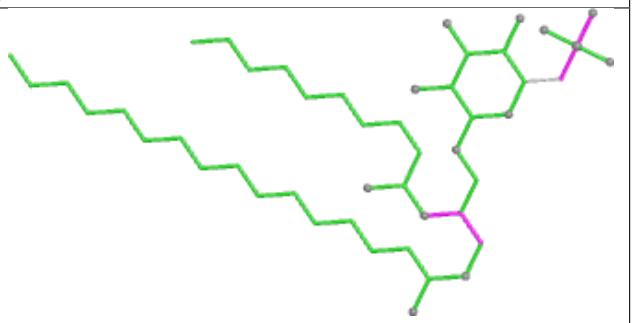
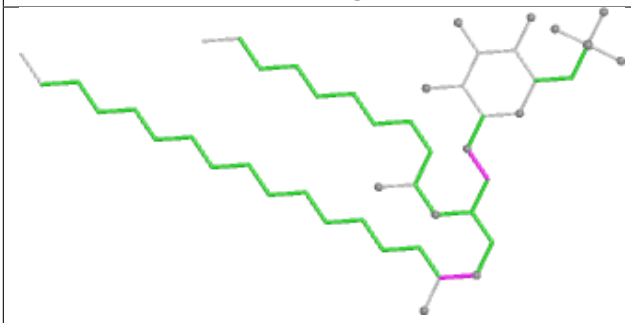
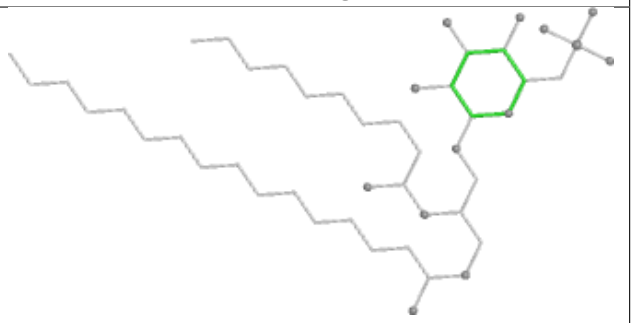
Bond angles

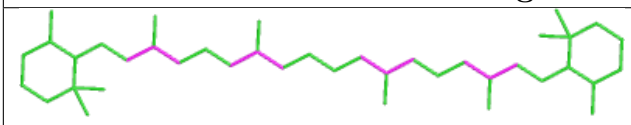
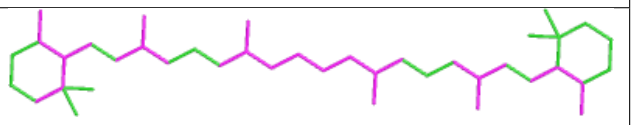
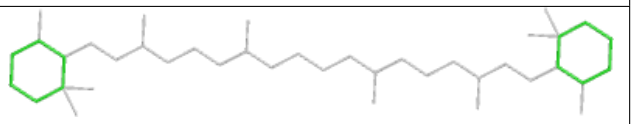


Torsions

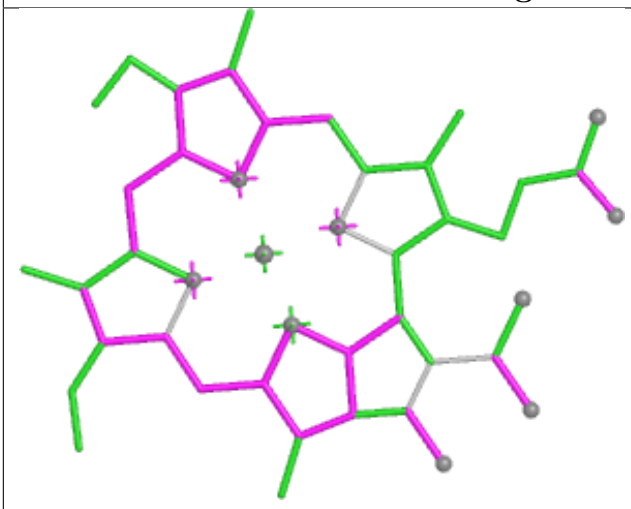


Rings

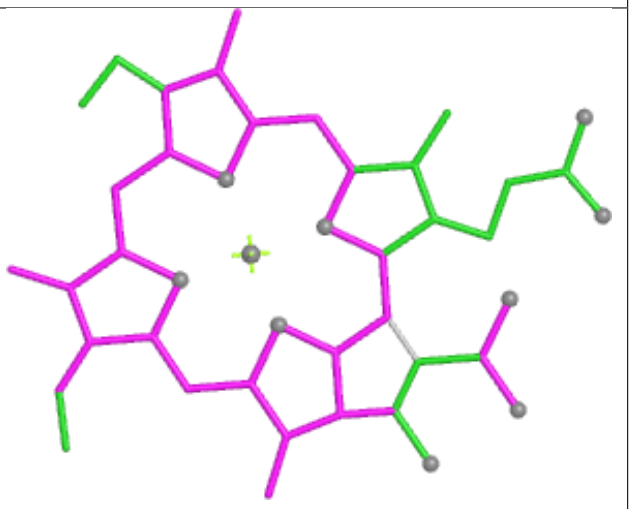
Ligand SQD 1d 405	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand BCR 1b 619	
 Bond lengths	 Bond angles
 Torsions	 Rings

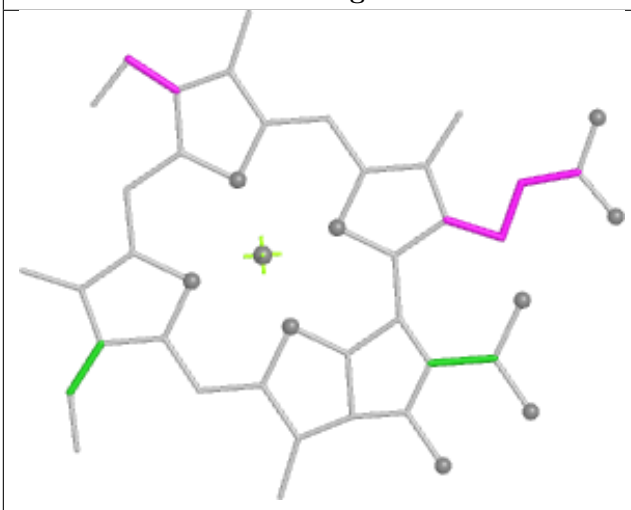
Ligand CLA 1R 309



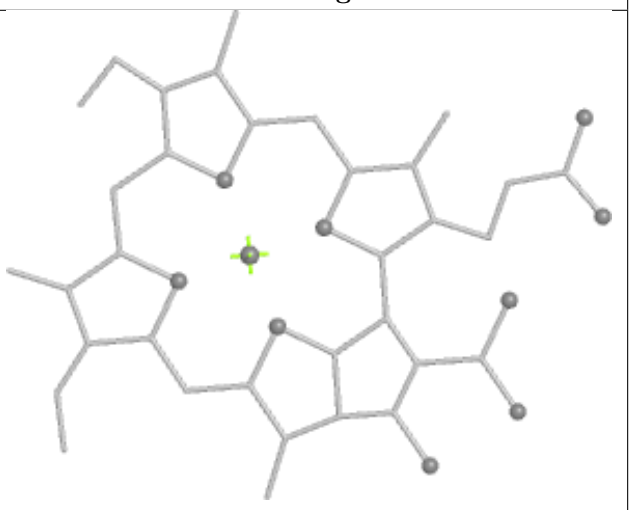
Bond lengths



Bond angles

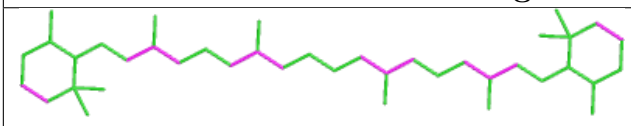


Torsions

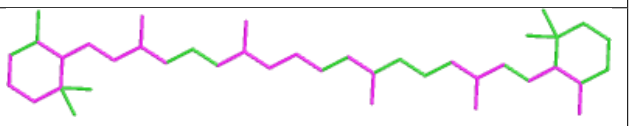


Rings

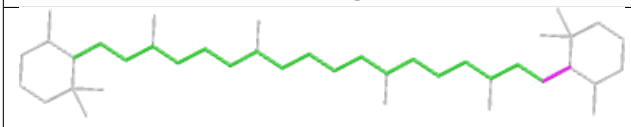
Ligand BCR 1B 630



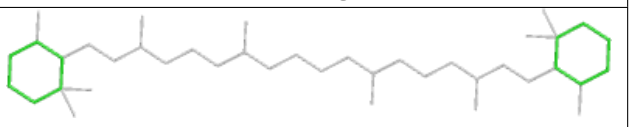
Bond lengths



Bond angles

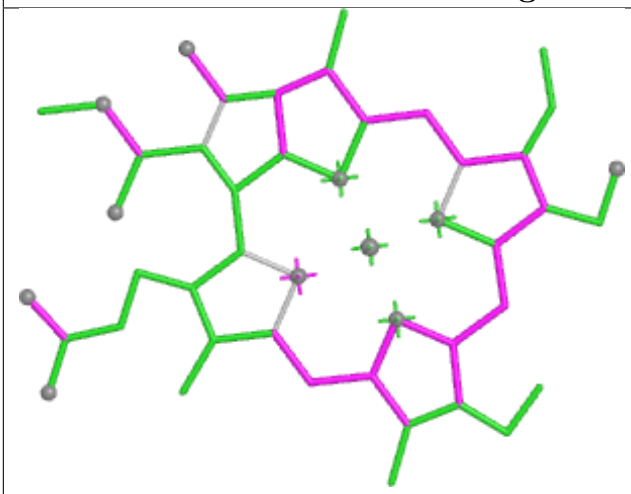


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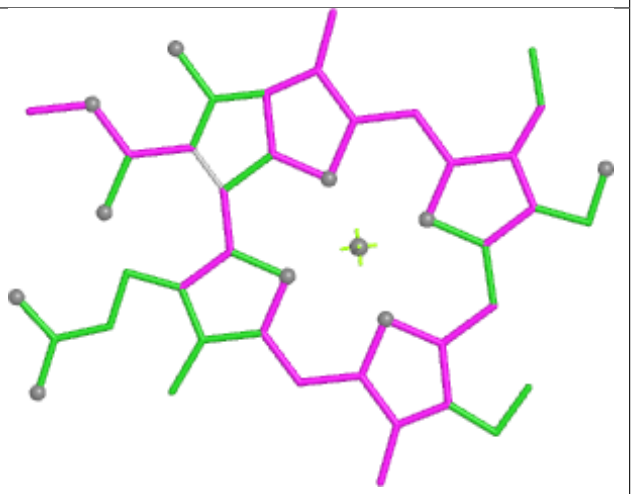


Rings

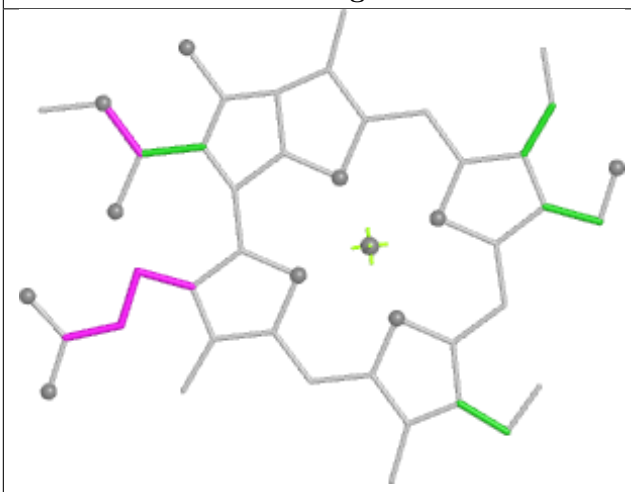
Ligand CHL 04 303



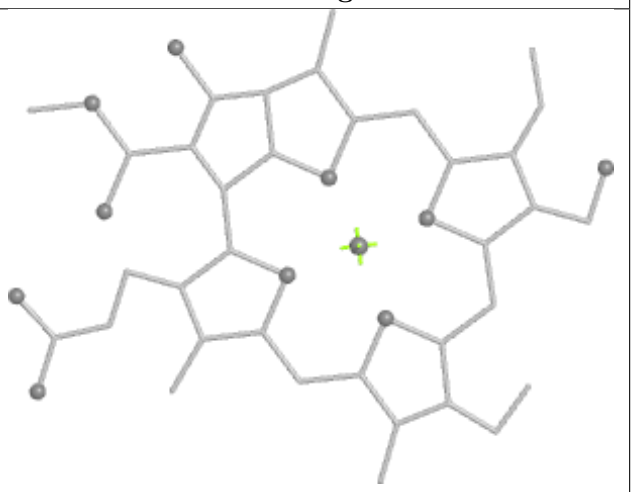
Bond lengths



Bond angles

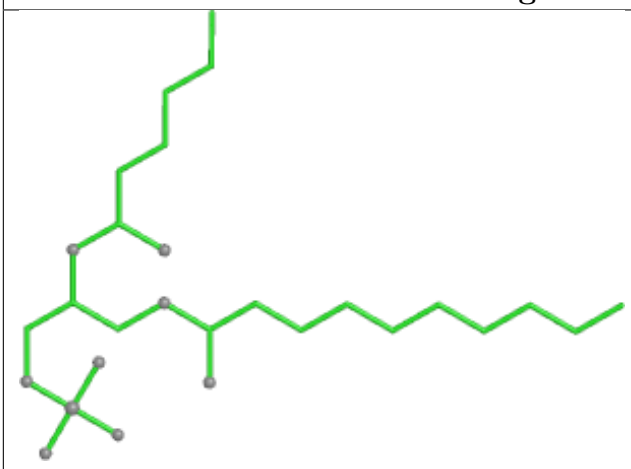


Torsions

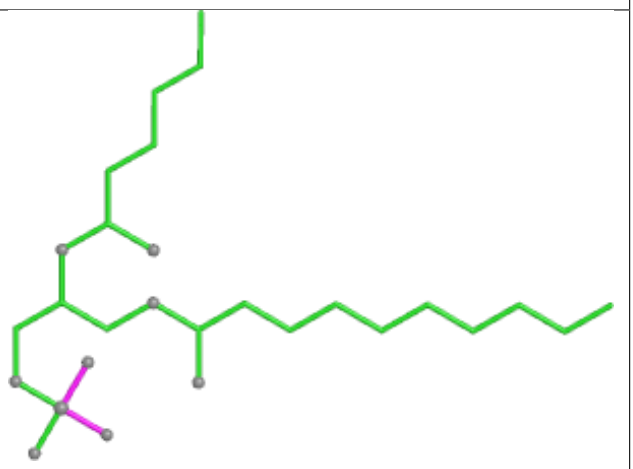


Rings

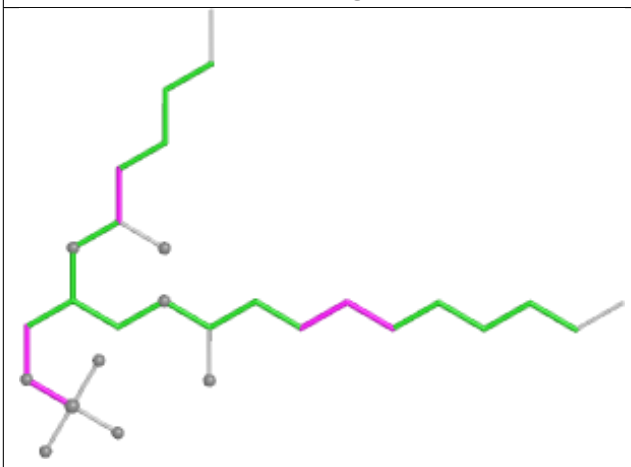
Ligand LHG 1c 522



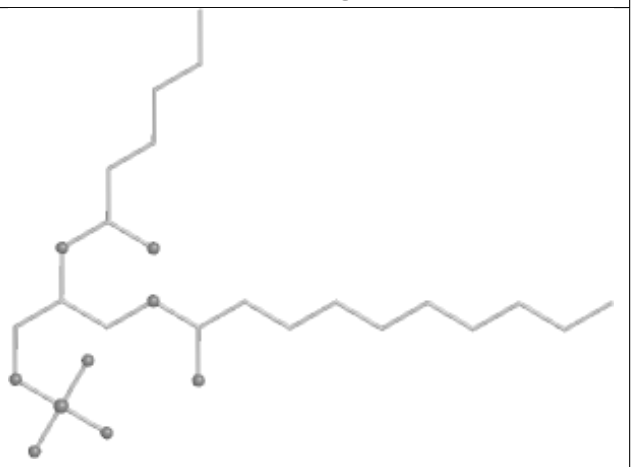
Bond lengths



Bond angles

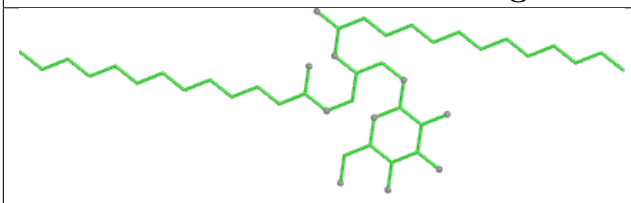


Torsions

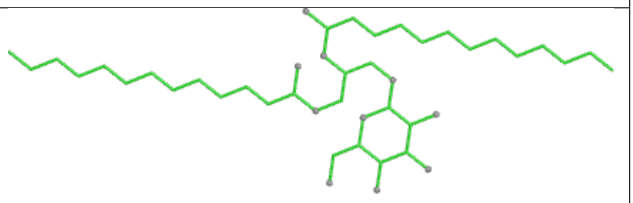


Rings

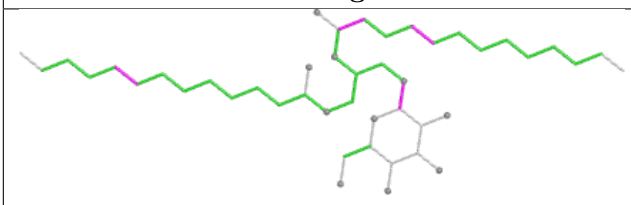
Ligand MGE 1C 524



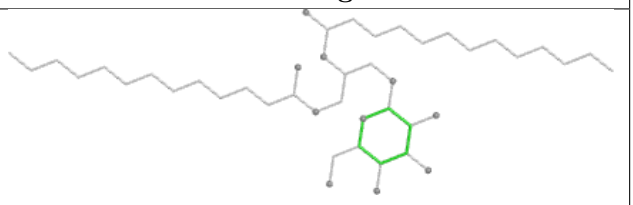
Bond lengths



Bond angles

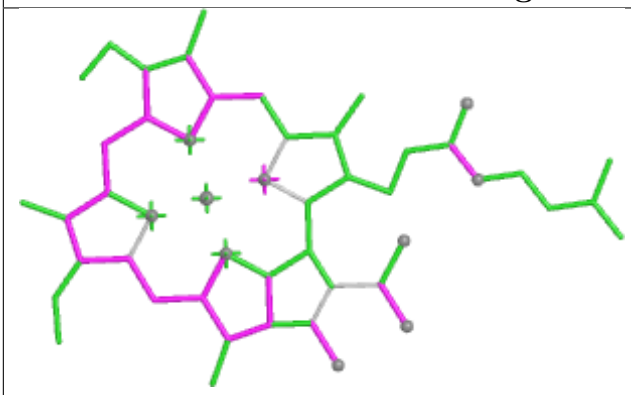


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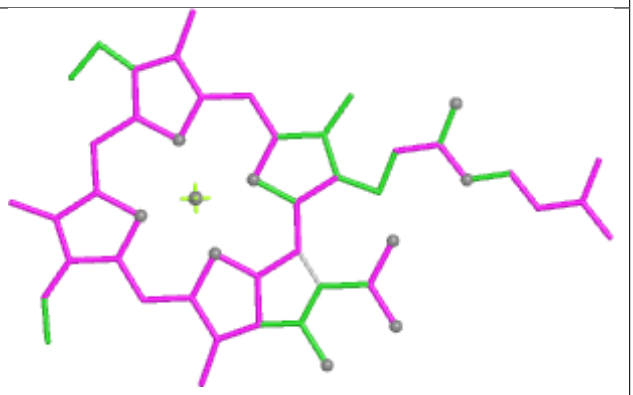


Rings

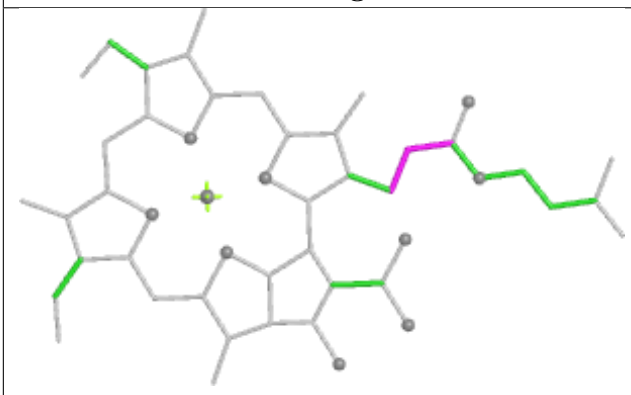
Ligand CLA 1R 310



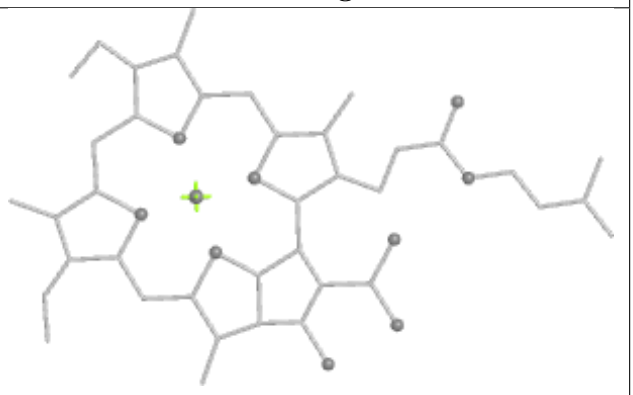
Bond lengths



Bond angles

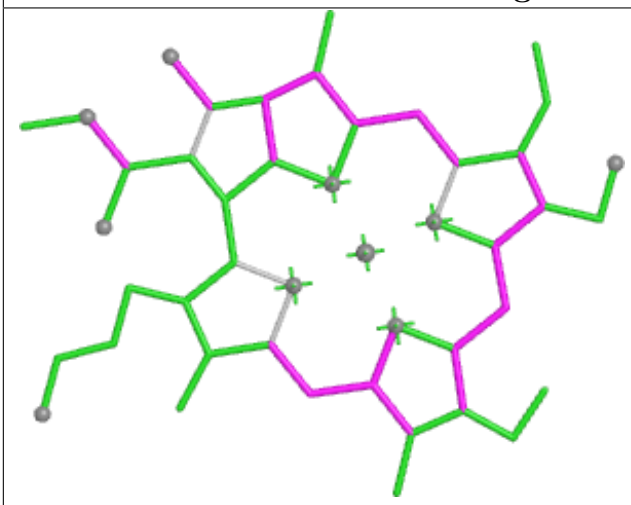


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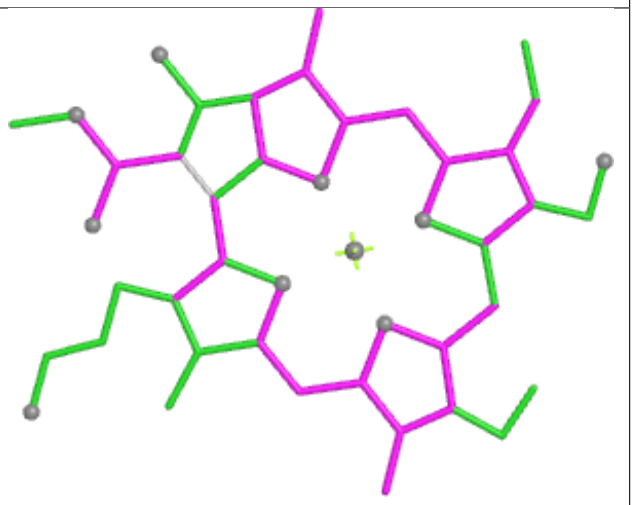


Rings

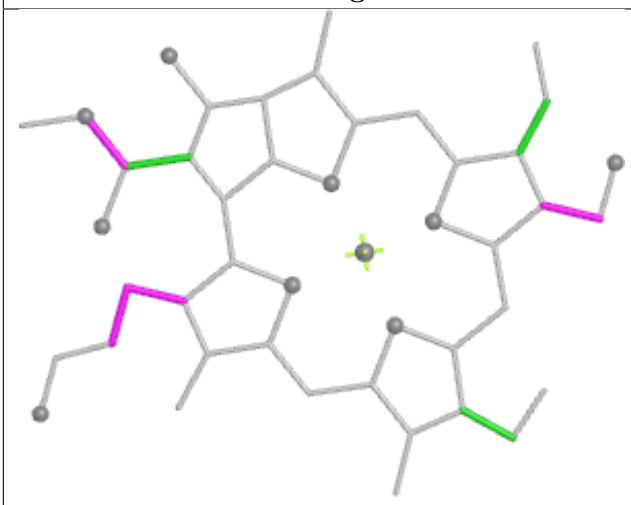
Ligand CHL 1N 309



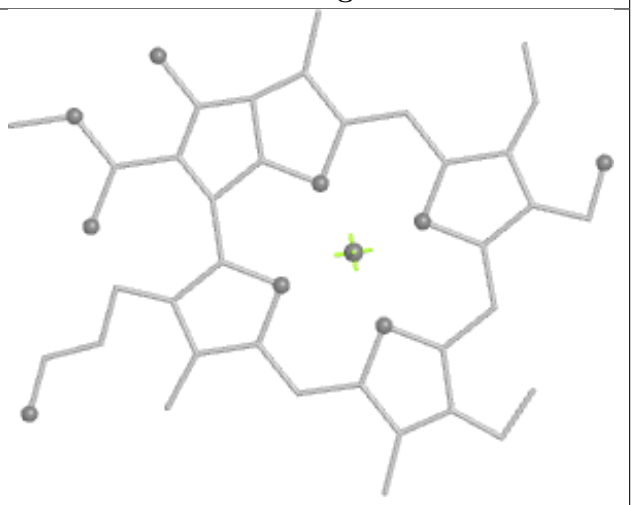
Bond lengths



Bond angles

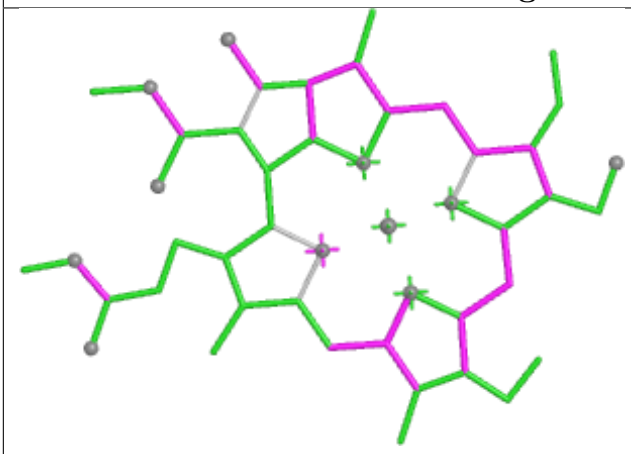


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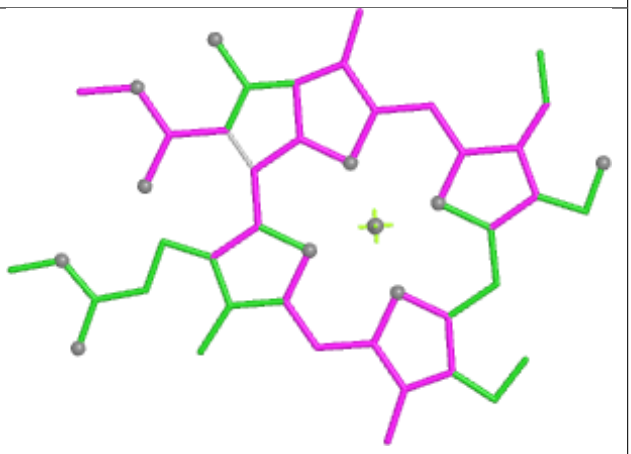


Rings

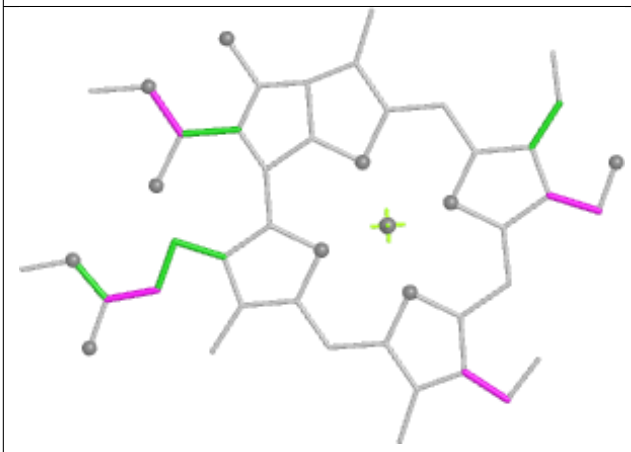
Ligand CHL 00 305



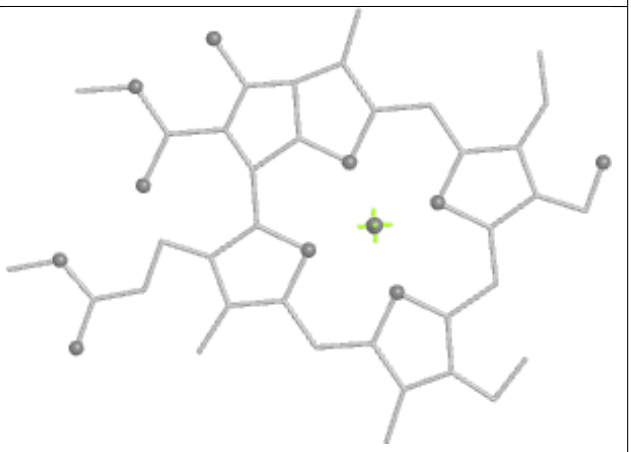
Bond lengths



Bond angles

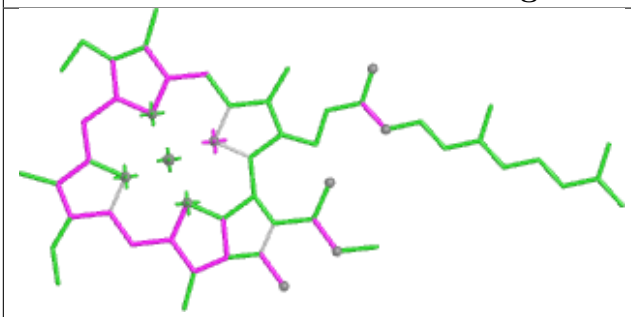


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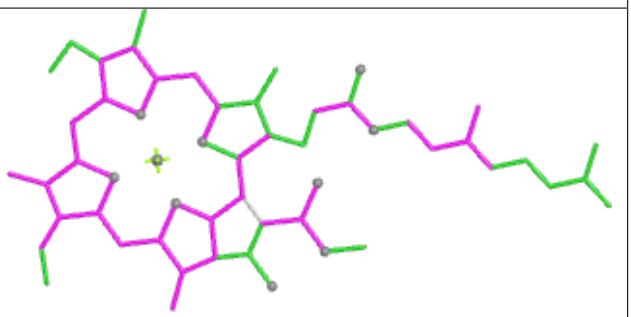


Rings

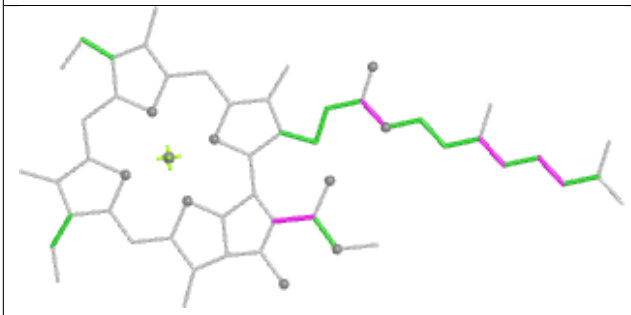
Ligand CLA 1c 506



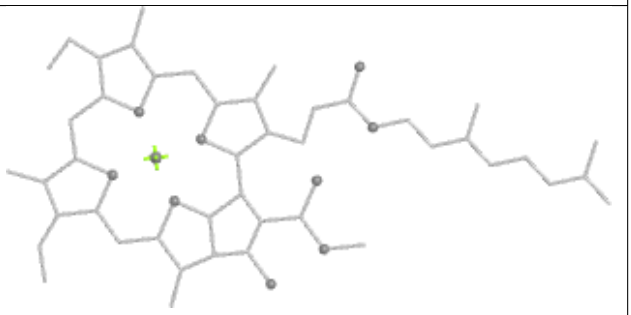
Bond lengths



Bond angles

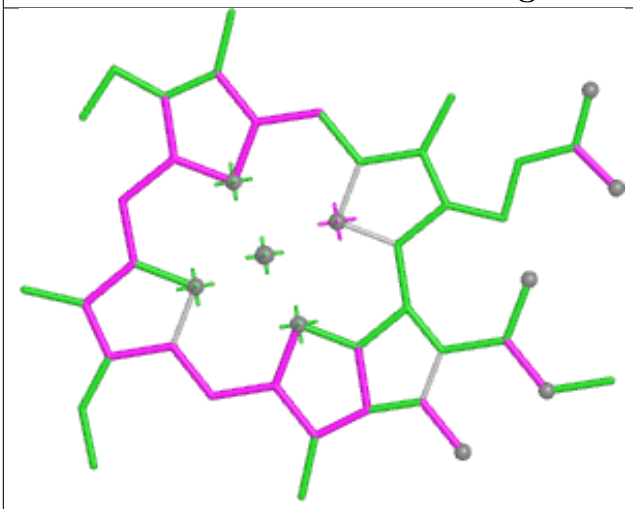


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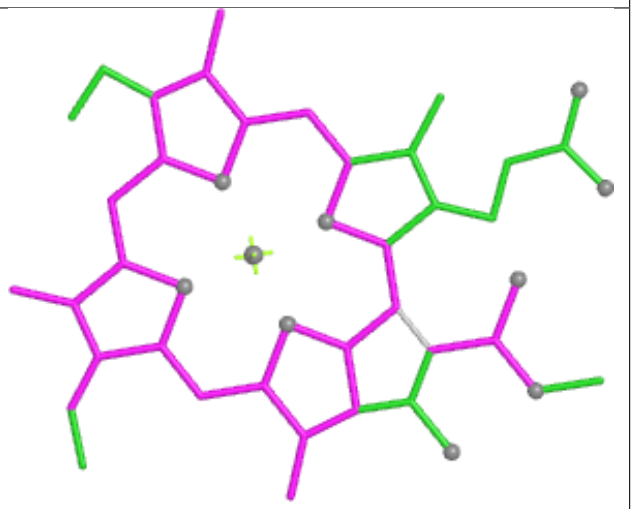


Rings

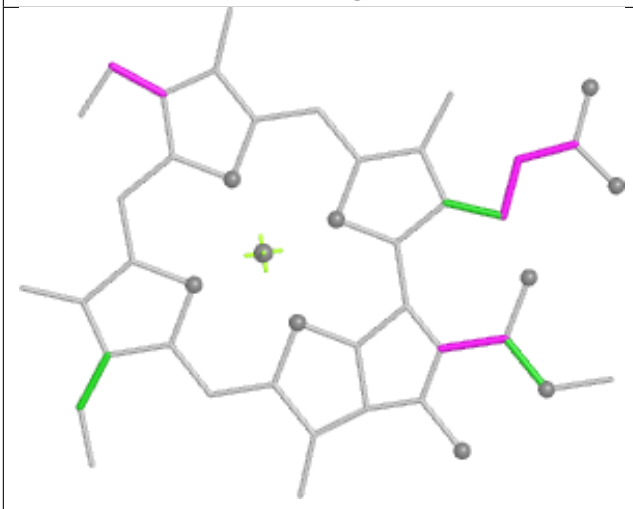
Ligand CLA 1n 612



Bond lengths



Bond angles

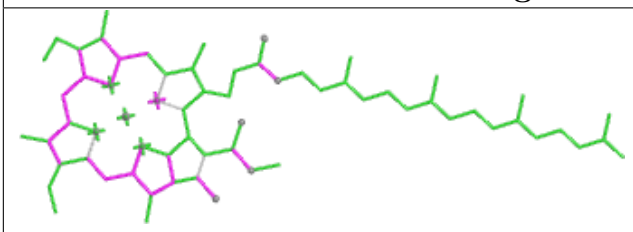


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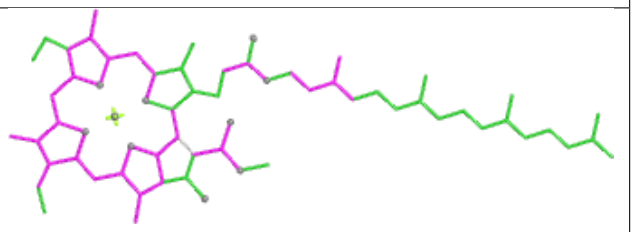


Rings

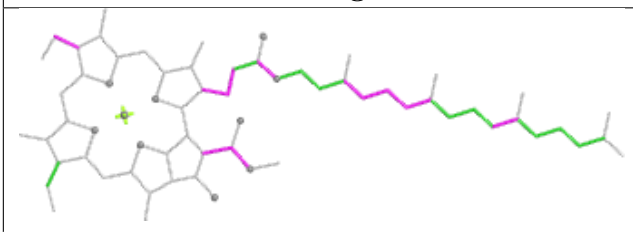
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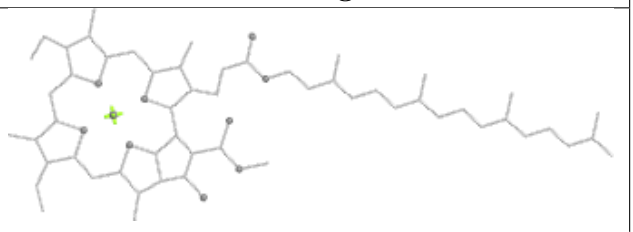
Bond lengths



Bond angles



Torsions

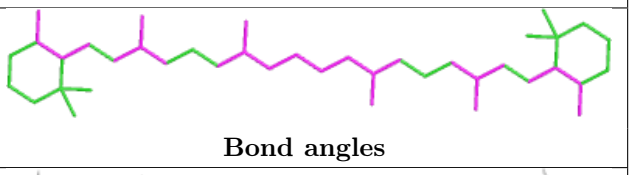


Rings

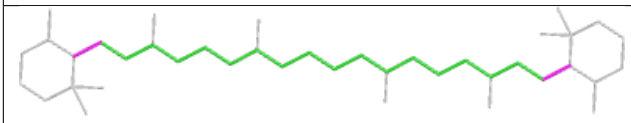
Ligand BCR 1D 406



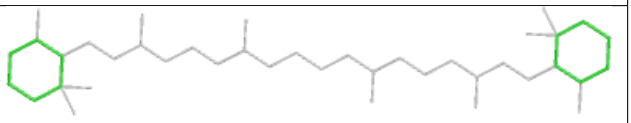
Bond lengths



Bond angles

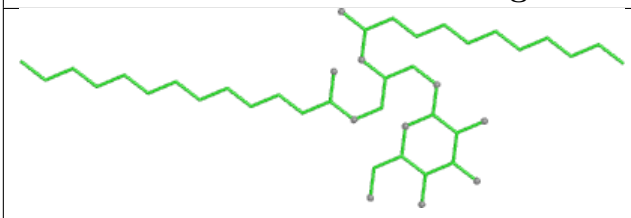


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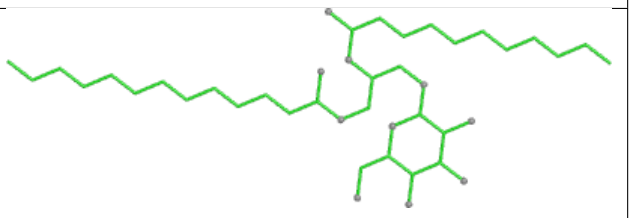


Rings

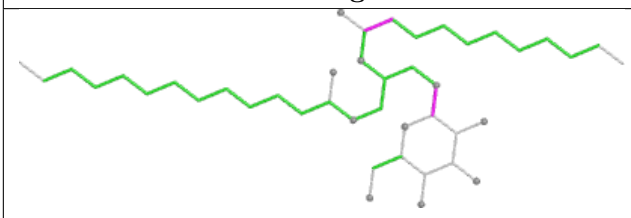
Ligand MGE 1B 624



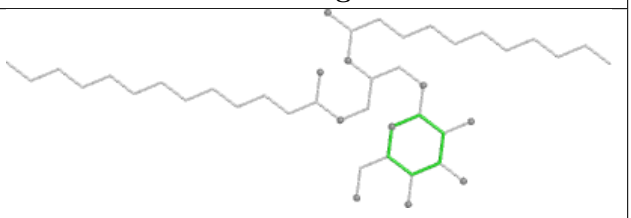
Bond lengths



Bond angles

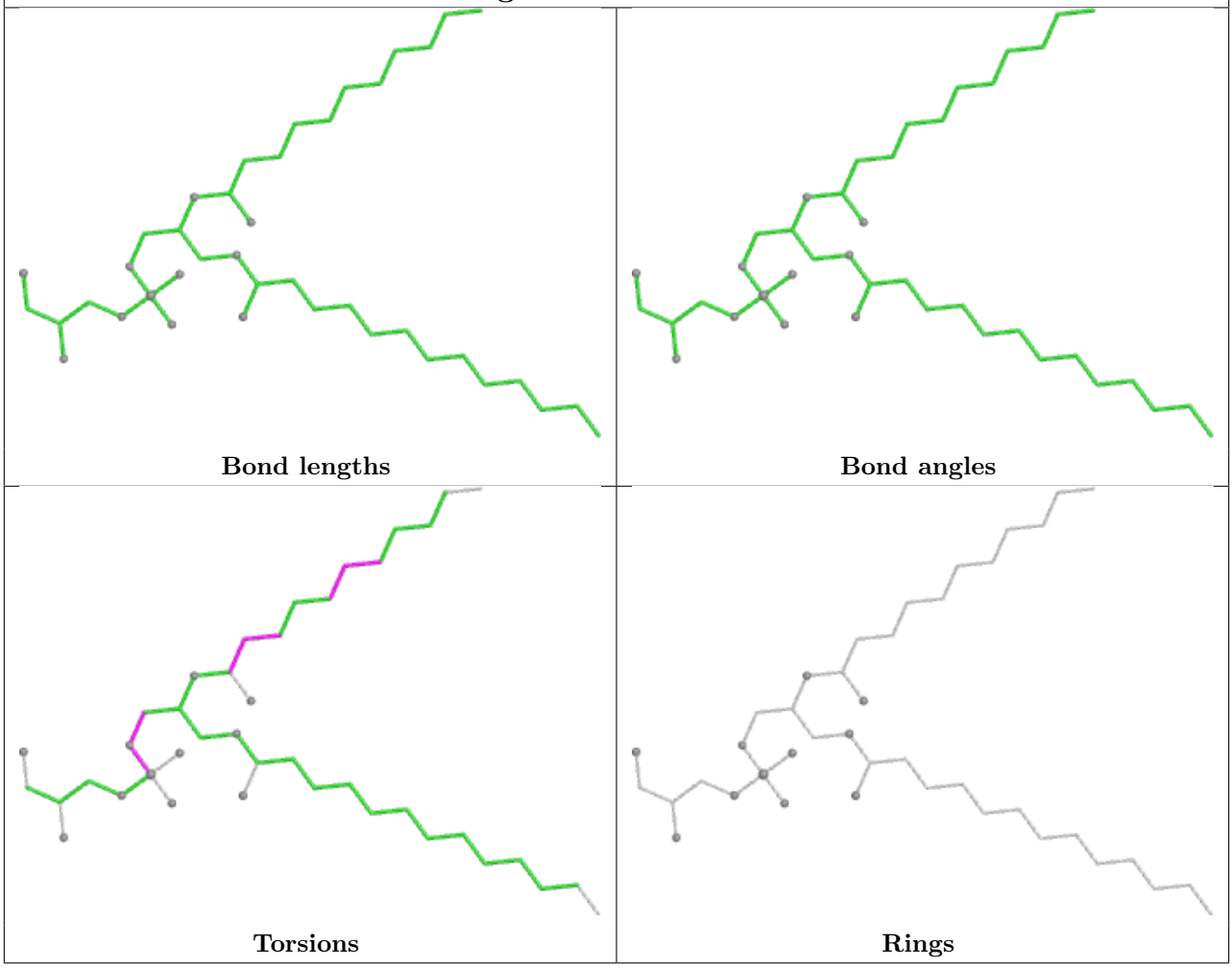


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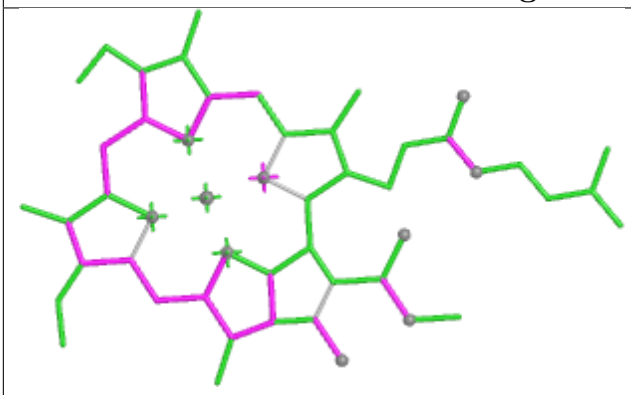


Rings

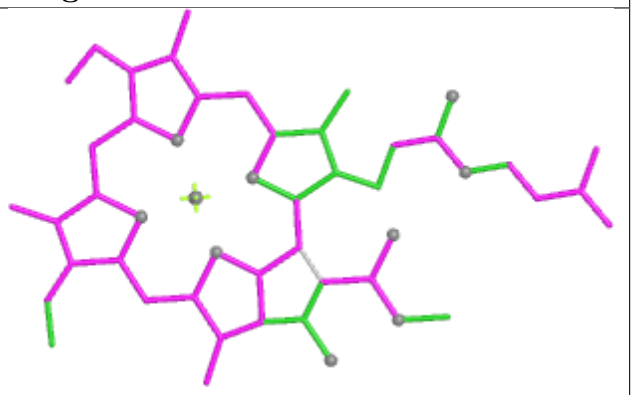
Ligand LHG 1v 201



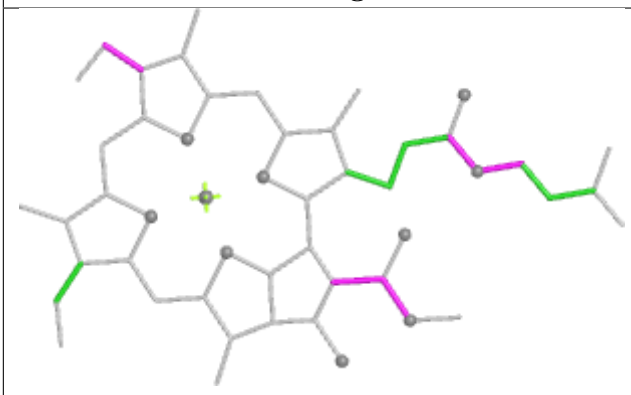
Ligand CLA 1g 604



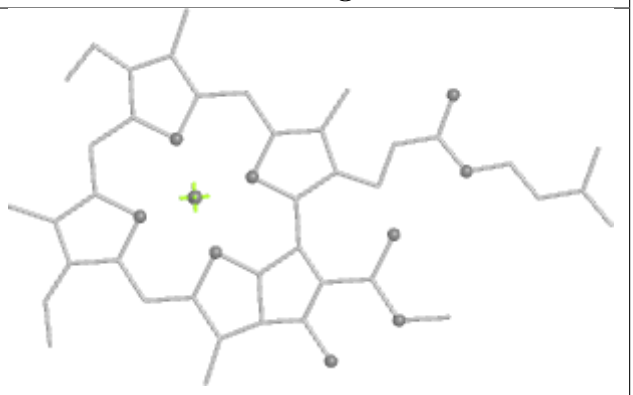
Bond lengths



Bond angles

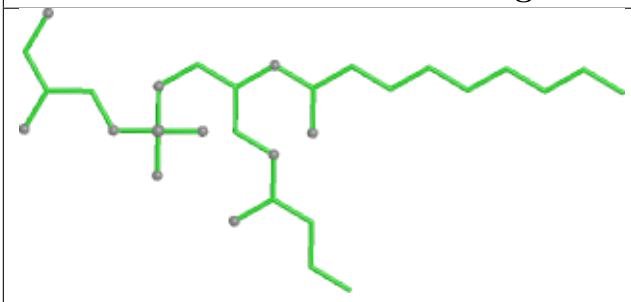


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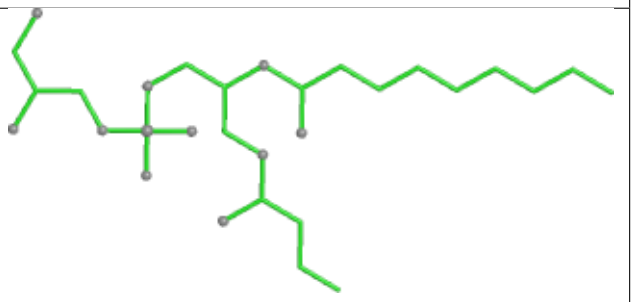


Rings

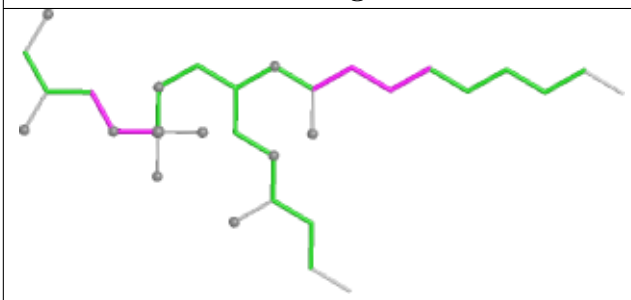
Ligand LHG 1E 101



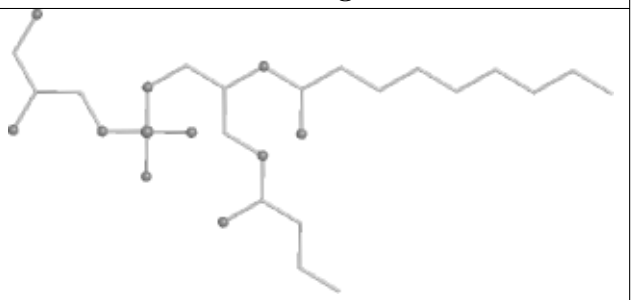
Bond lengths



Bond angles

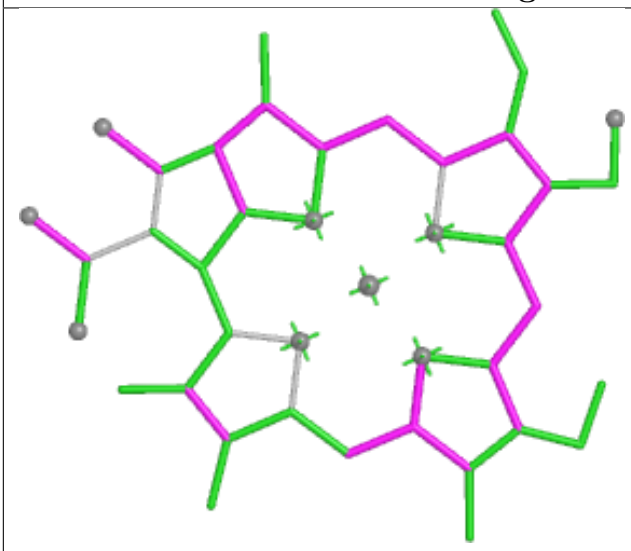


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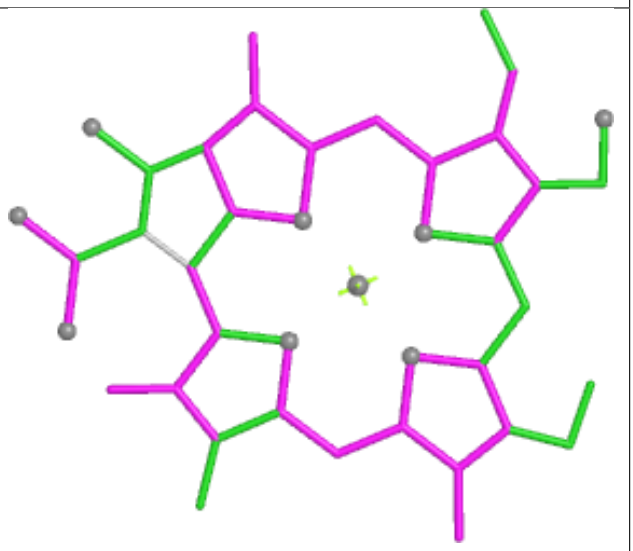


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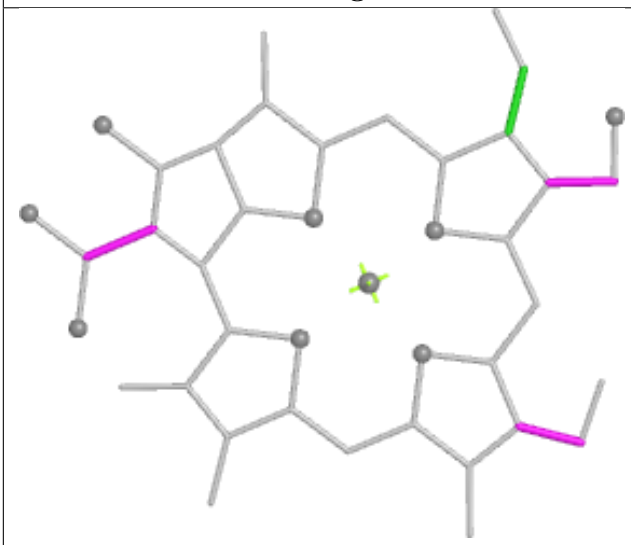
Ligand CHL 07 303



Bond lengths



Bond angles

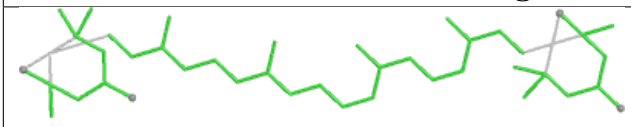


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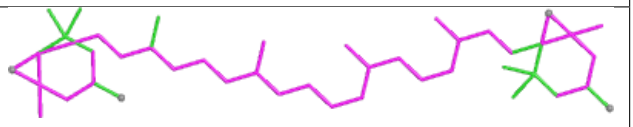


Rings

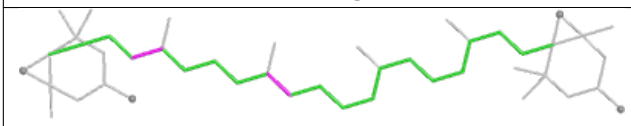
Ligand XAT 1R 316



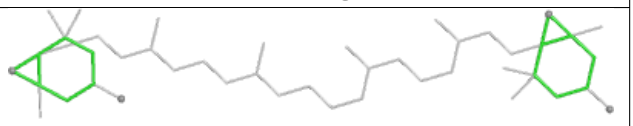
Bond lengths



Bond angles

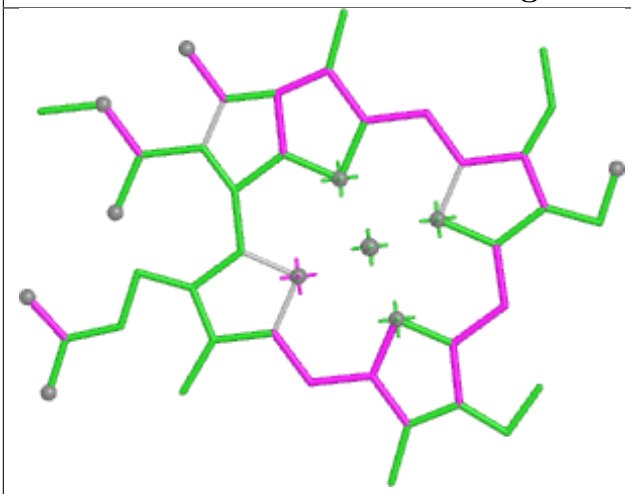


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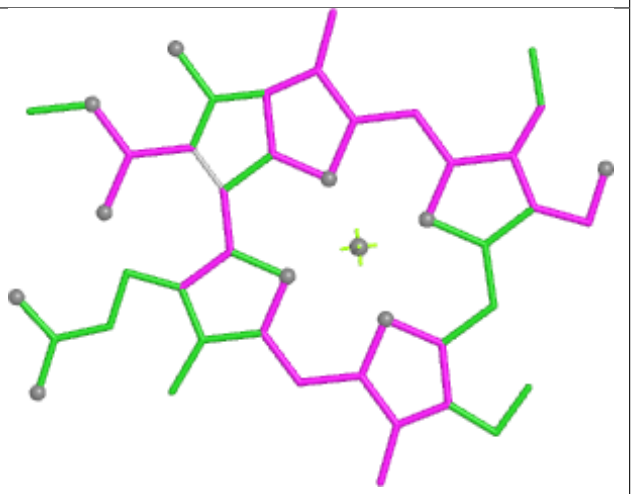


Rings

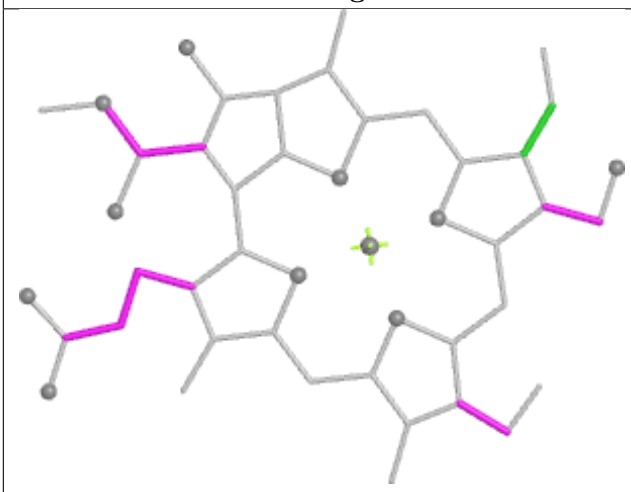
Ligand CHL 1s 304



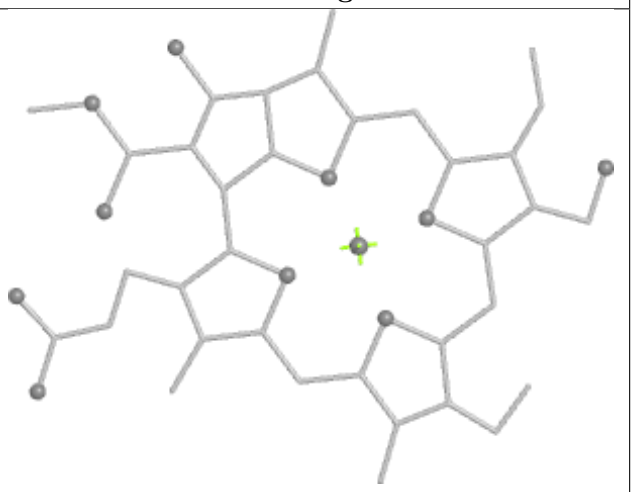
Bond lengths



Bond angles

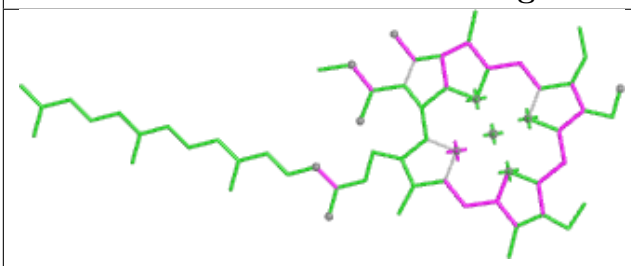


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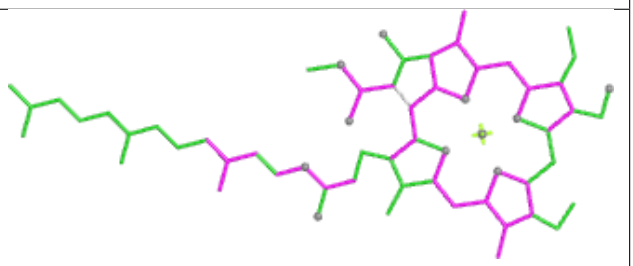


Rings

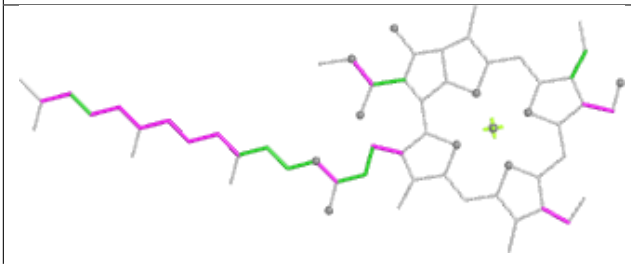
Ligand CHL 1n 609



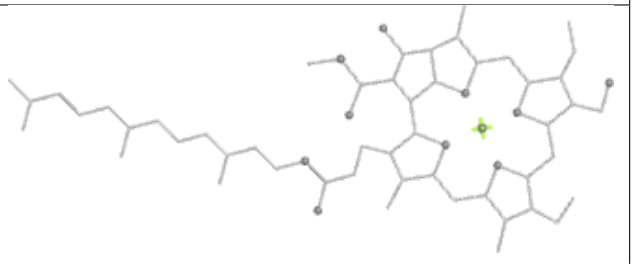
Bond lengths



Bond angles

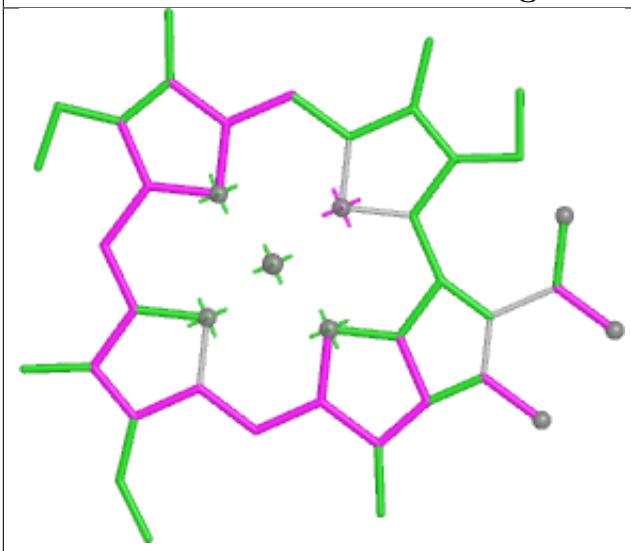


Torsions

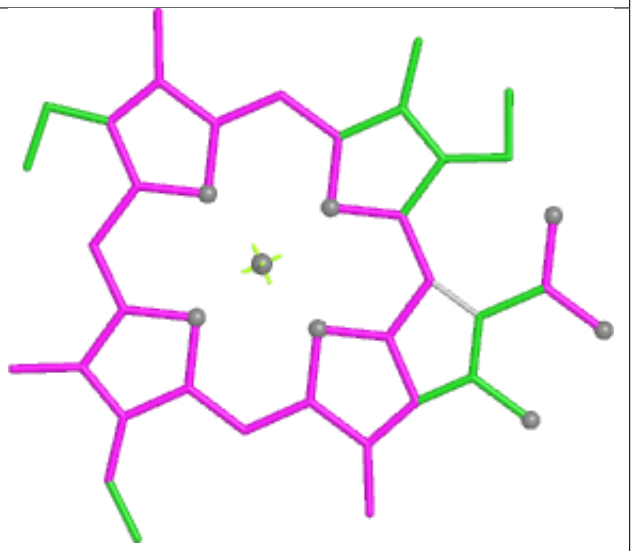


Rings

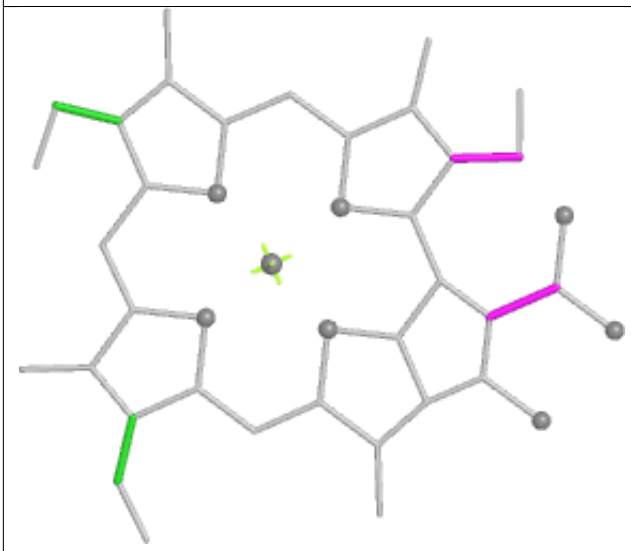
Ligand CLA 03 307



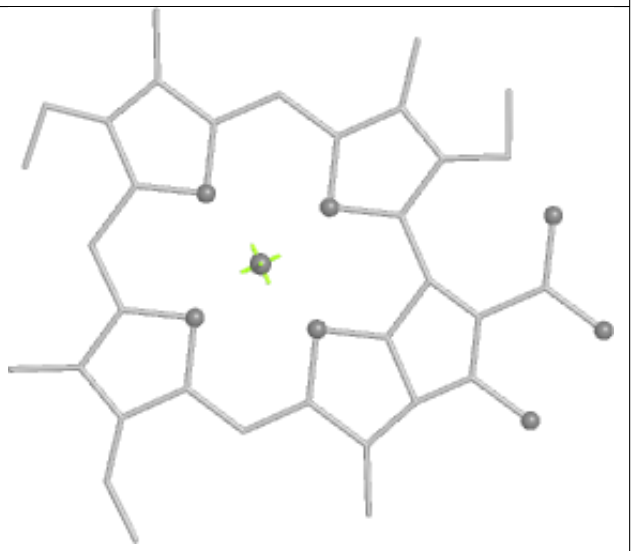
Bond lengths



Bond angles

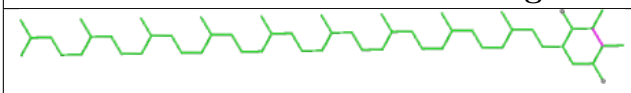


Torsions

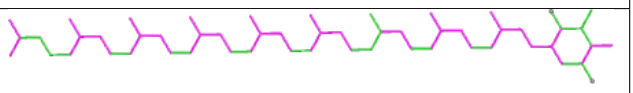


Rings

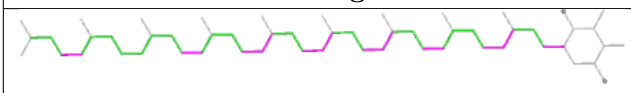
Ligand PL9 1a 412



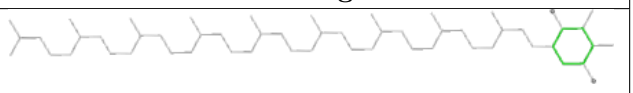
Bond lengths



Bond angles

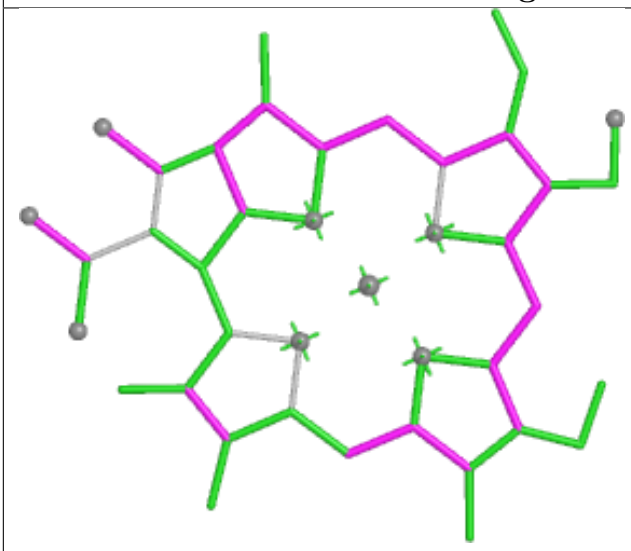


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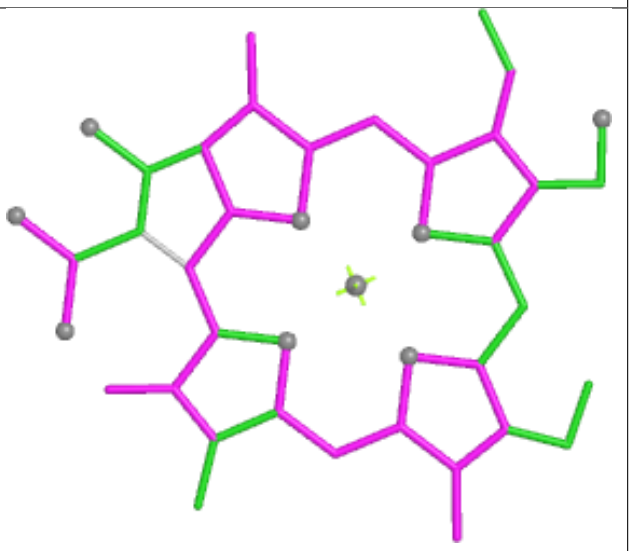


Rings

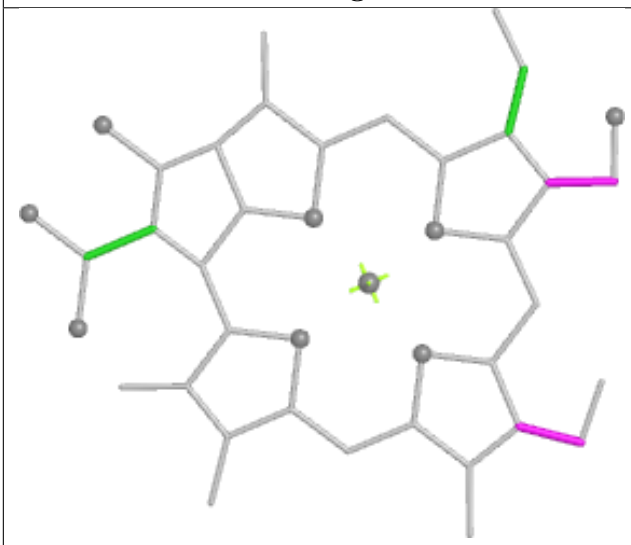
Ligand CHL 07 304



Bond lengths



Bond angles

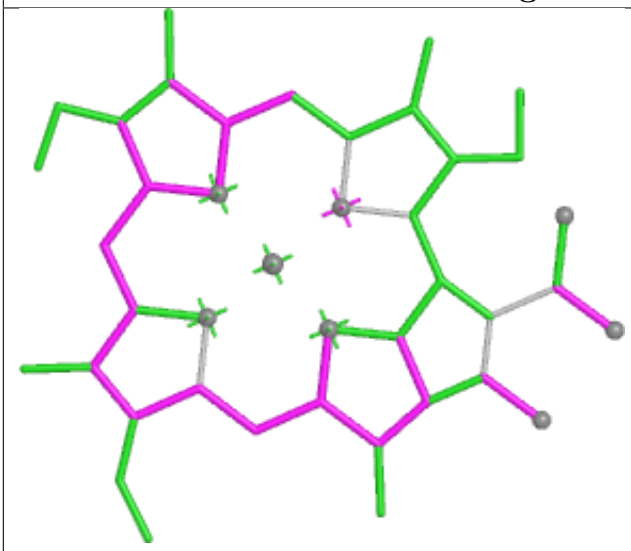


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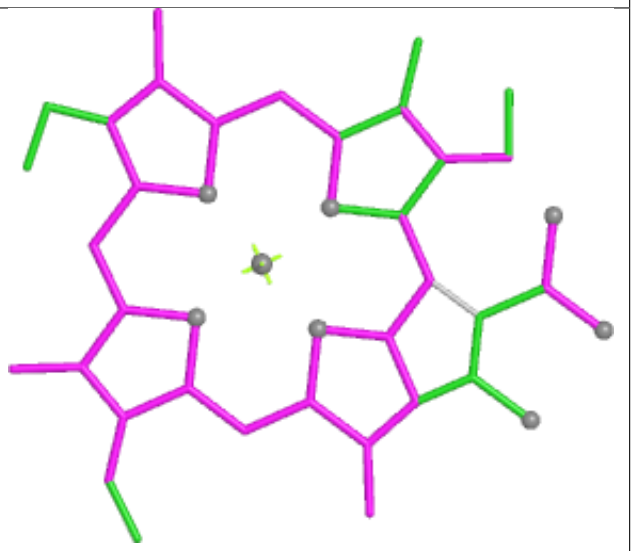


Rings

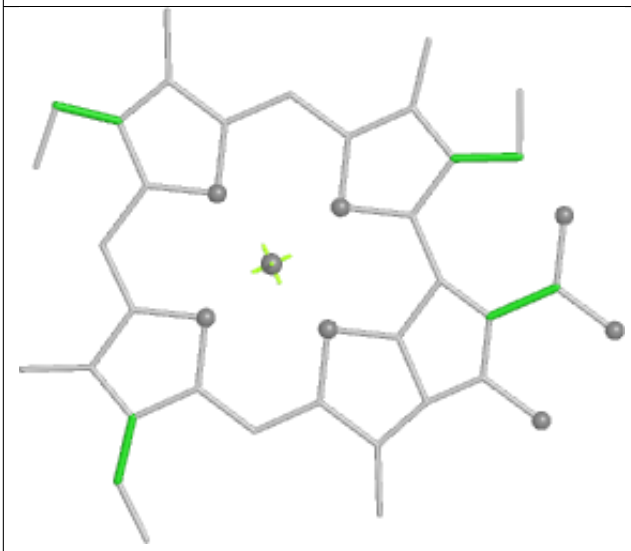
Ligand CLA 06 609



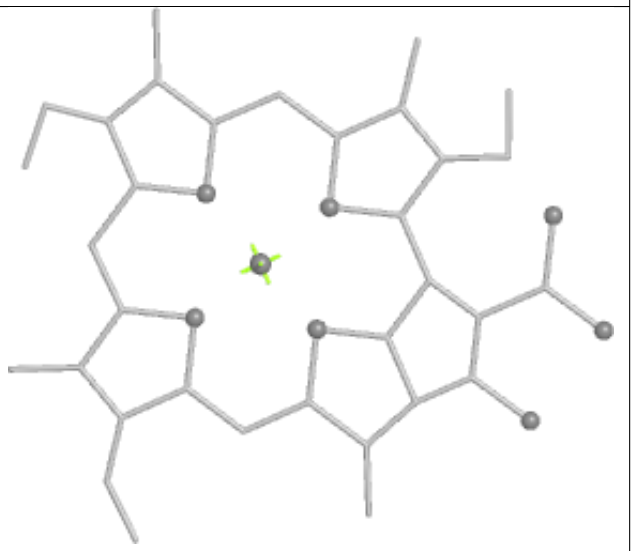
Bond lengths



Bond angles

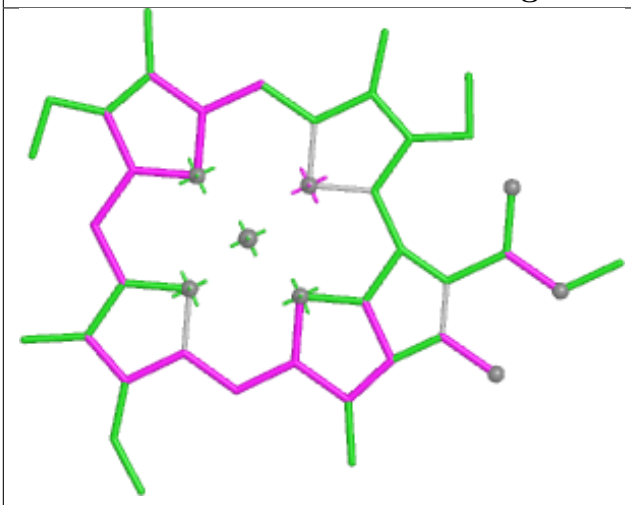


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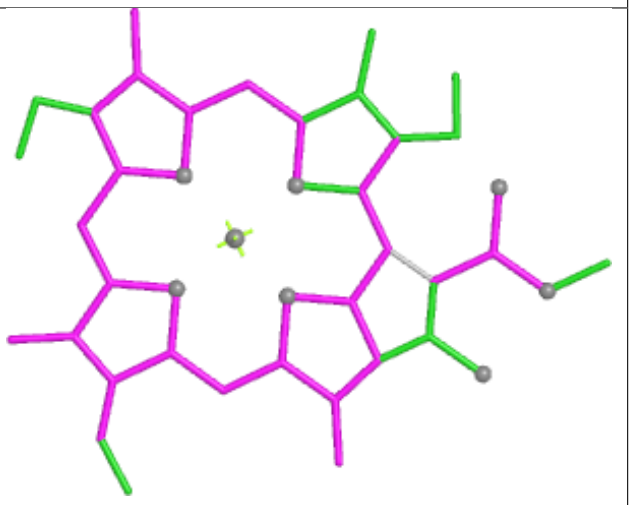


Rings

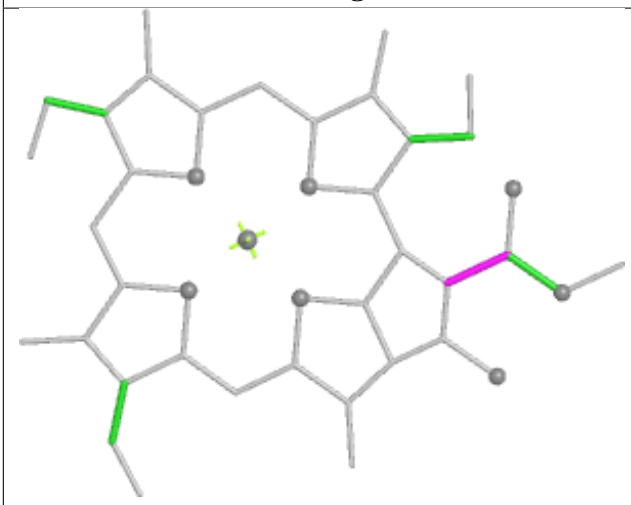
Ligand CLA 1s 311



Bond lengths



Bond angles

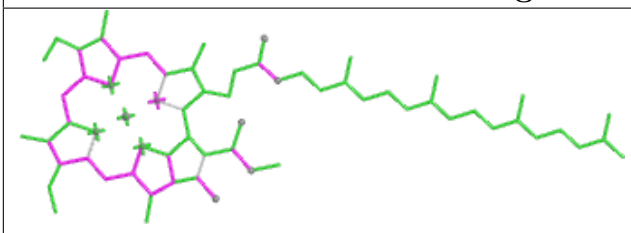


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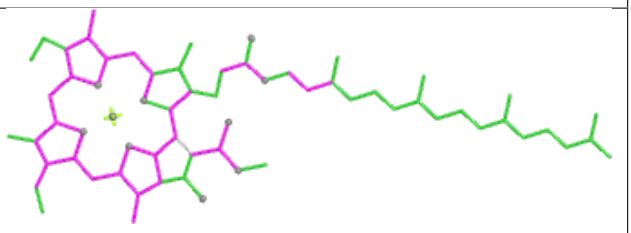


Rings

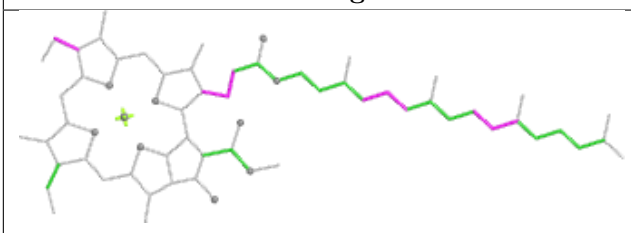
Ligand CLA 1C 501



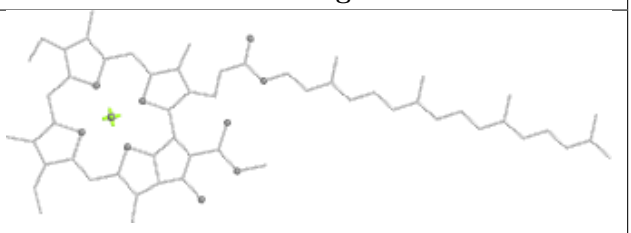
Bond lengths



Bond angles

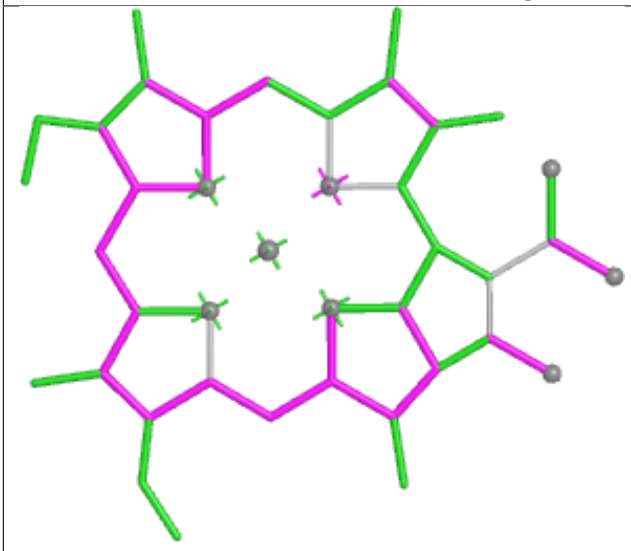


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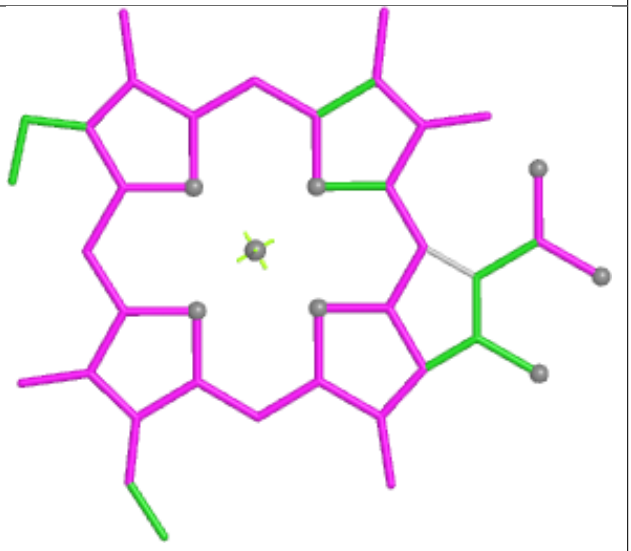


Rings

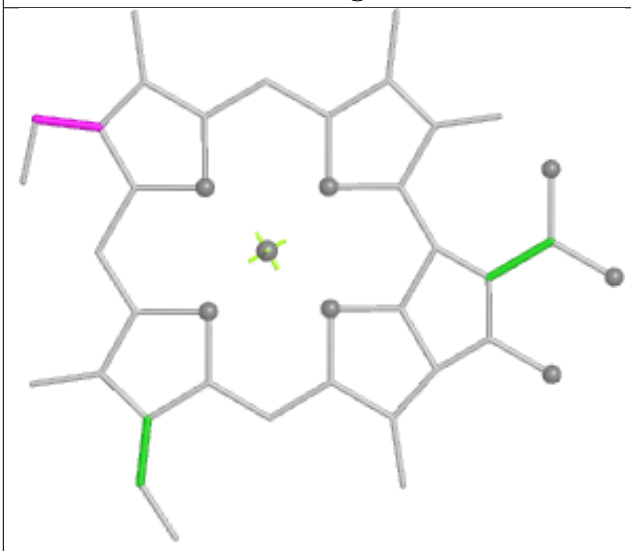
Ligand CLA 07 301



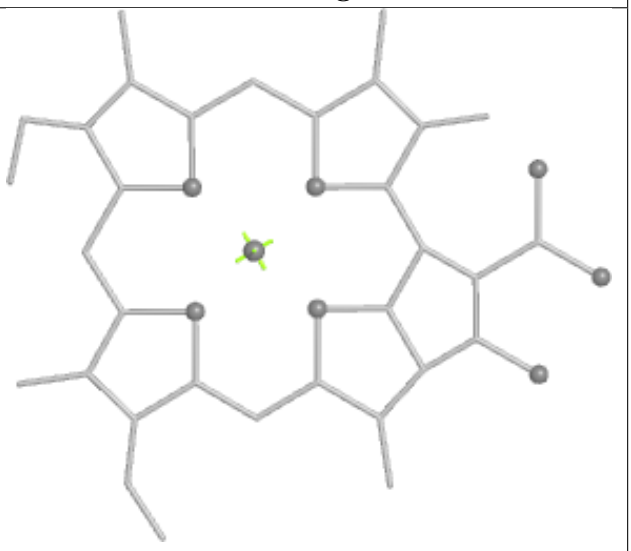
Bond lengths



Bond angles

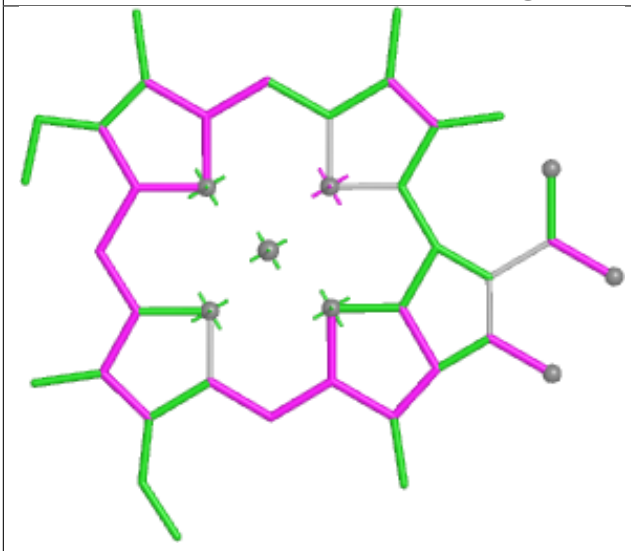


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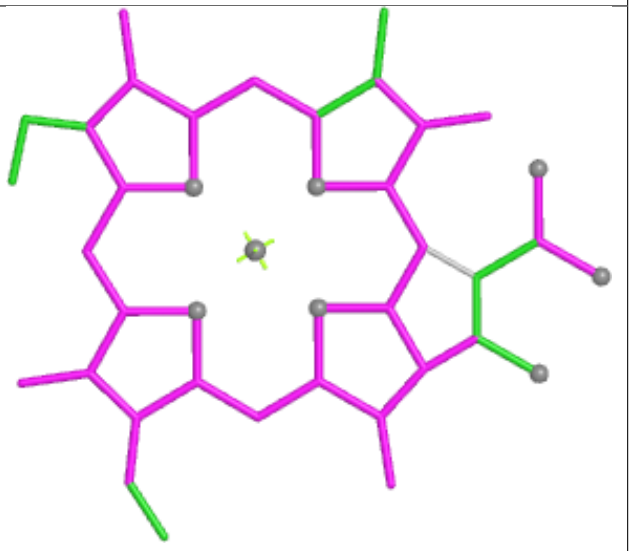


Rings

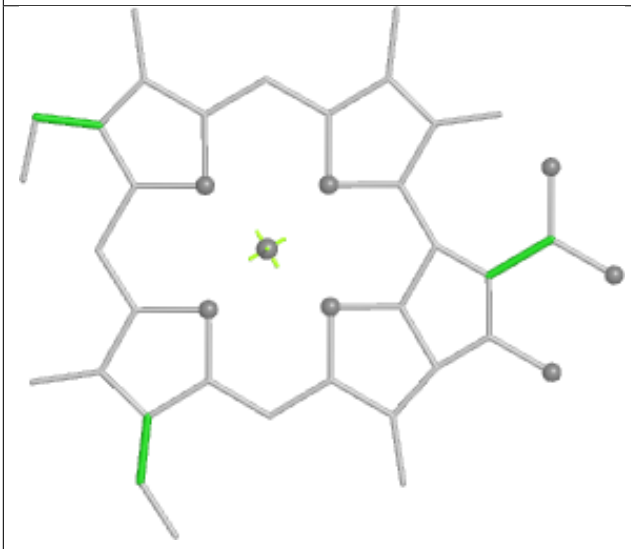
Ligand CLA 05 311



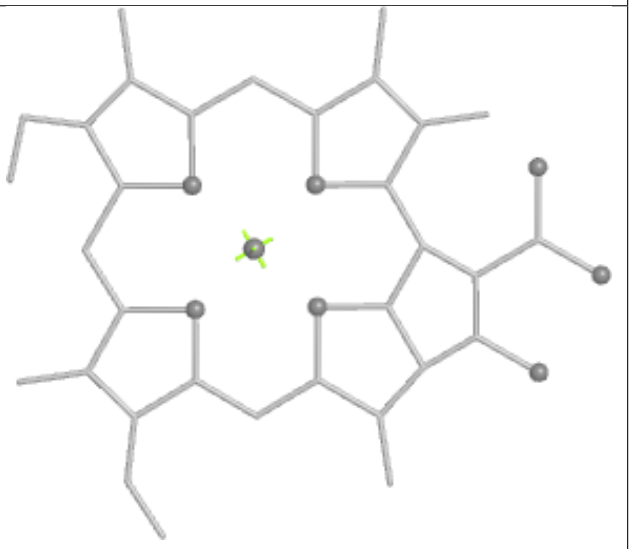
Bond lengths



Bond angles

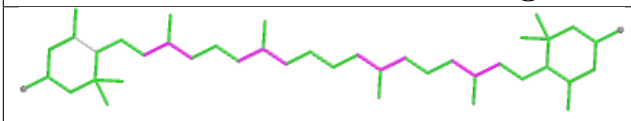


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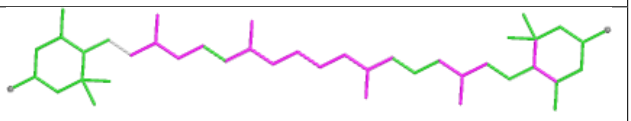


Rings

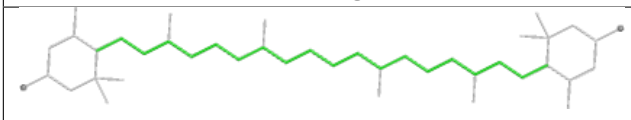
Ligand LUT 09 314



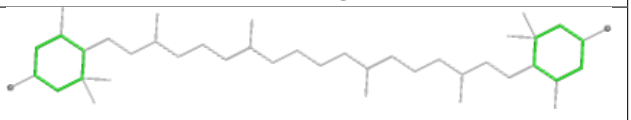
Bond lengths



Bond angles

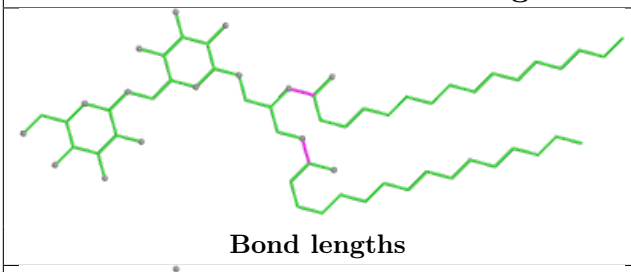


Torsions

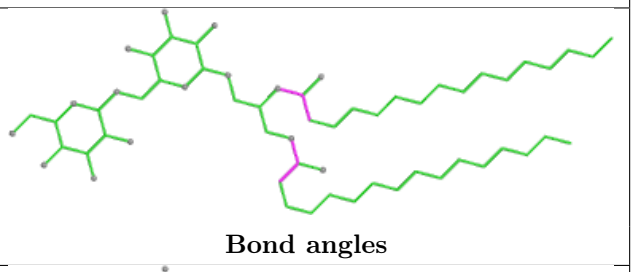


Rings

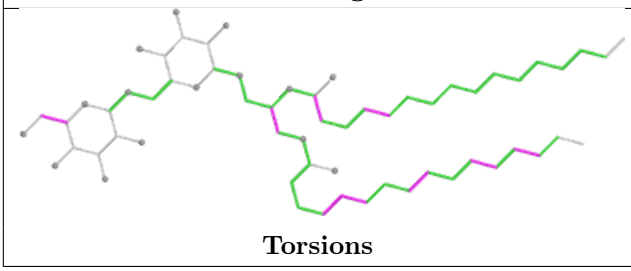
Ligand DGD 1B 625



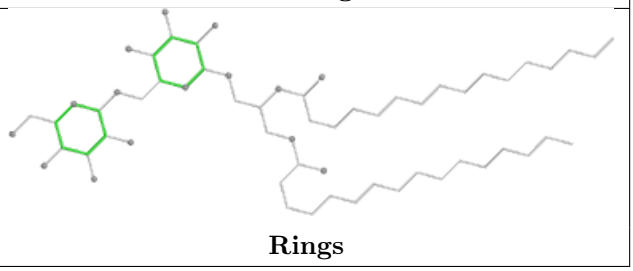
Bond lengths



Bond angles

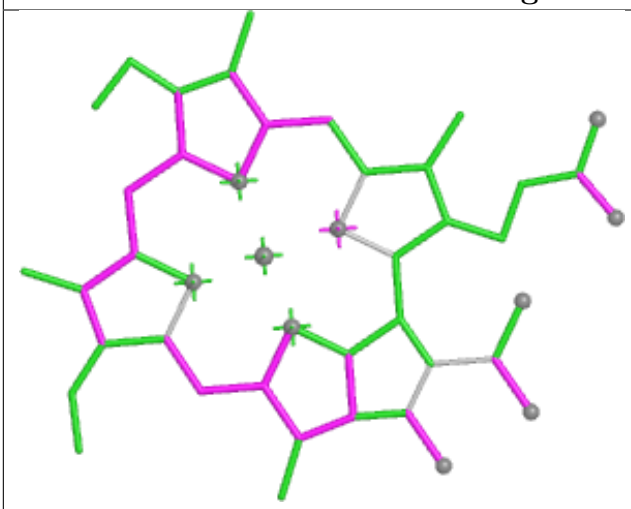


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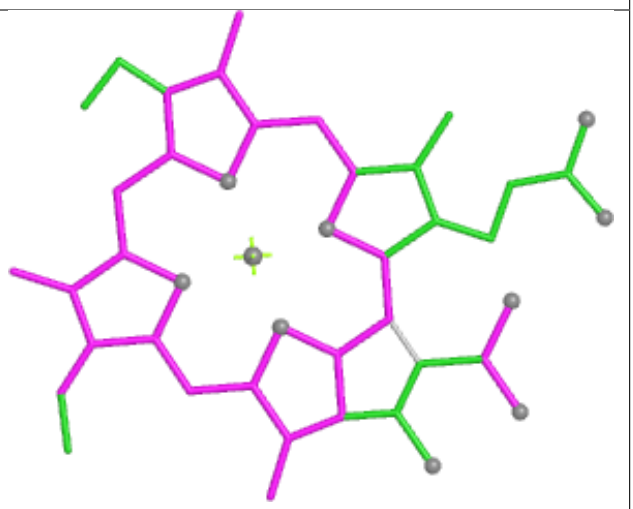


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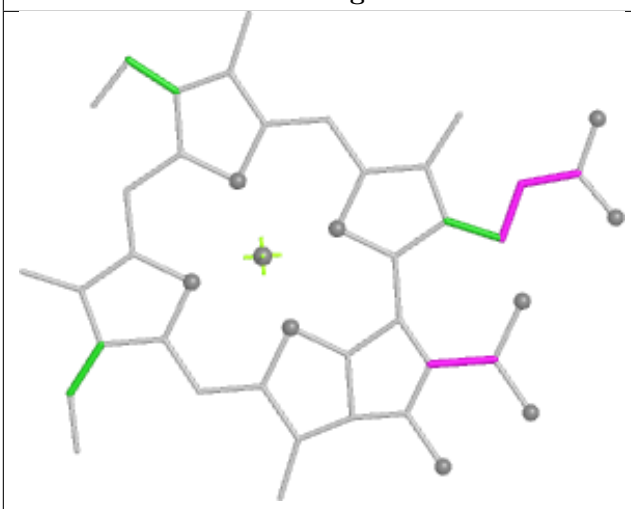
Ligand CLA 1s 314



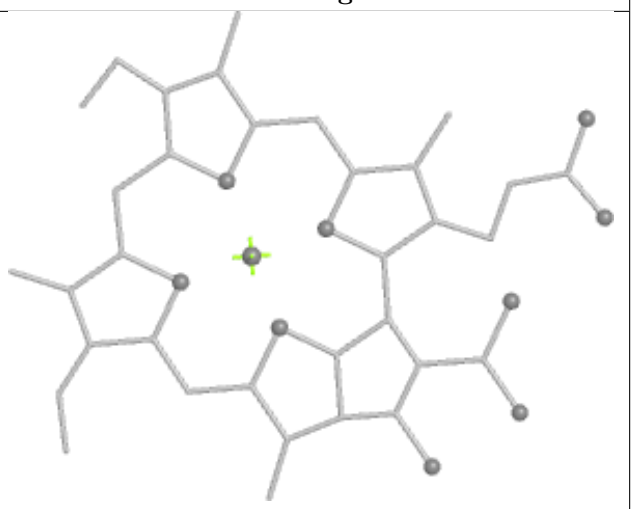
Bond lengths



Bond angles

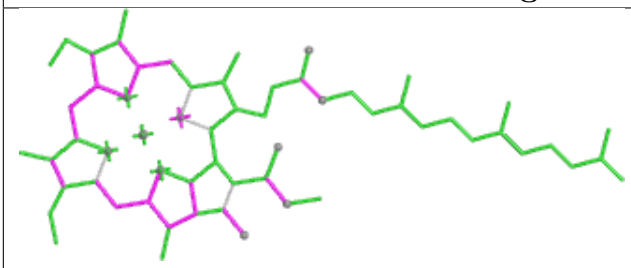


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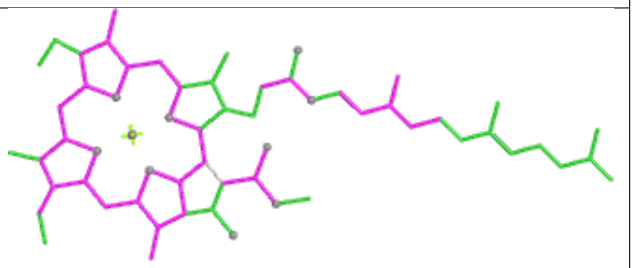


Rings

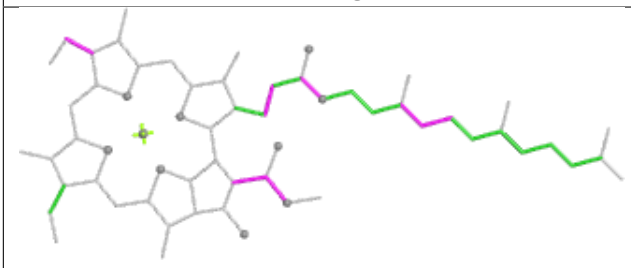
Ligand CLA 1c 504



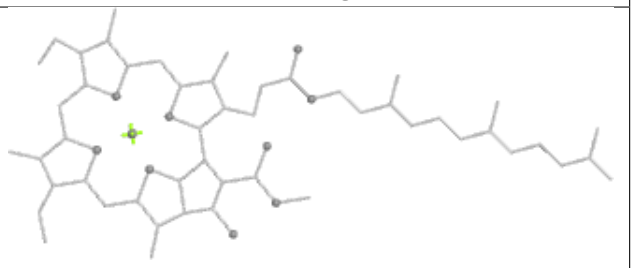
Bond lengths



Bond angles

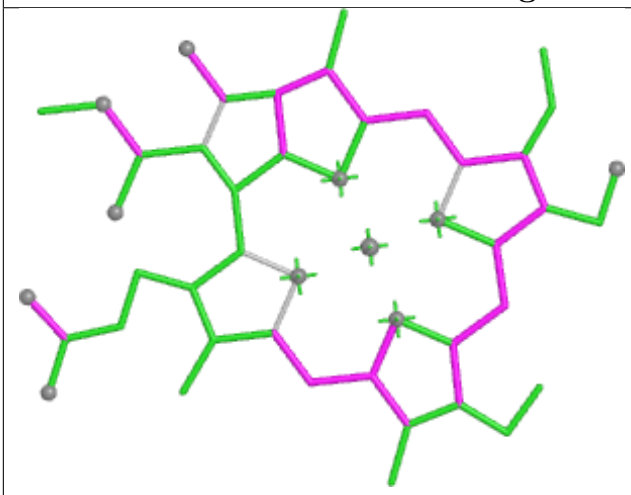


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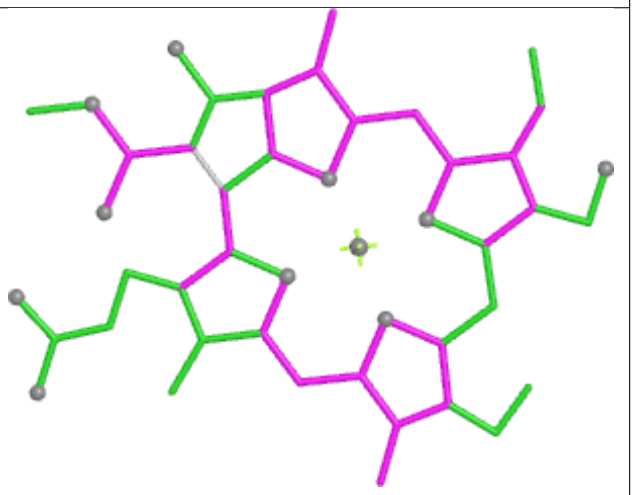


Rings

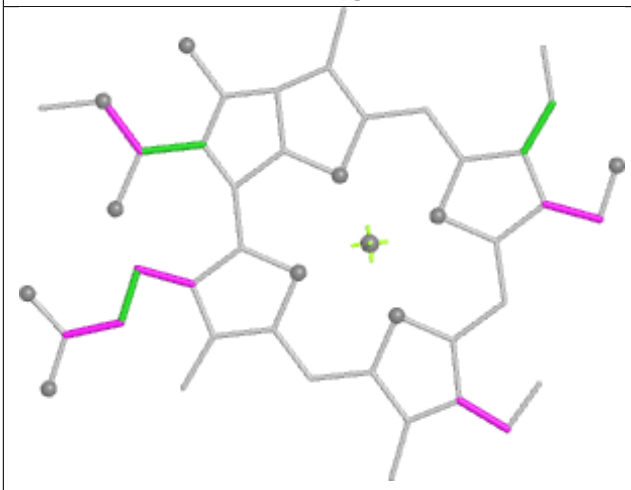
Ligand CHL 03 305



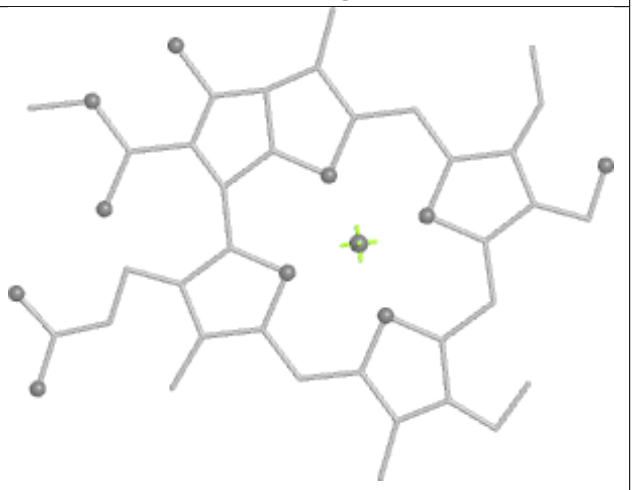
Bond lengths



Bond angles

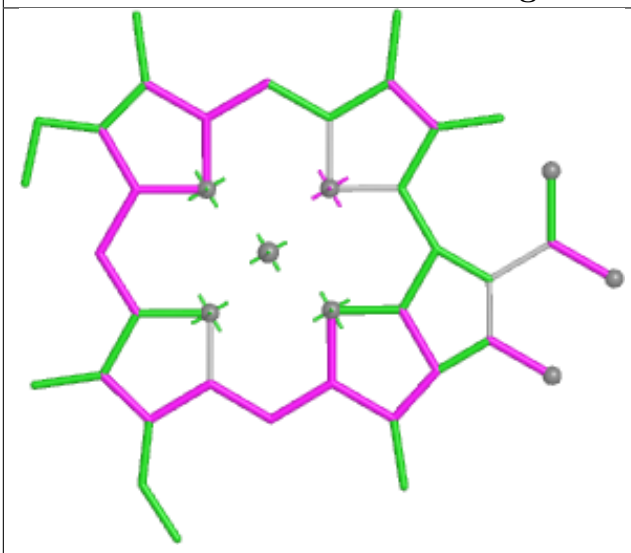


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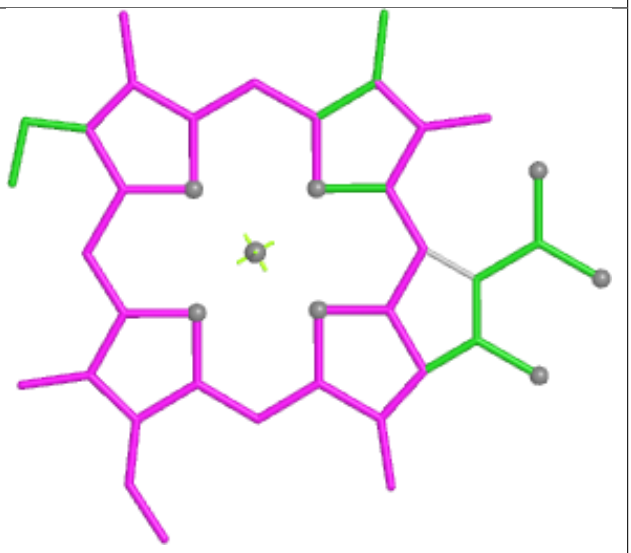


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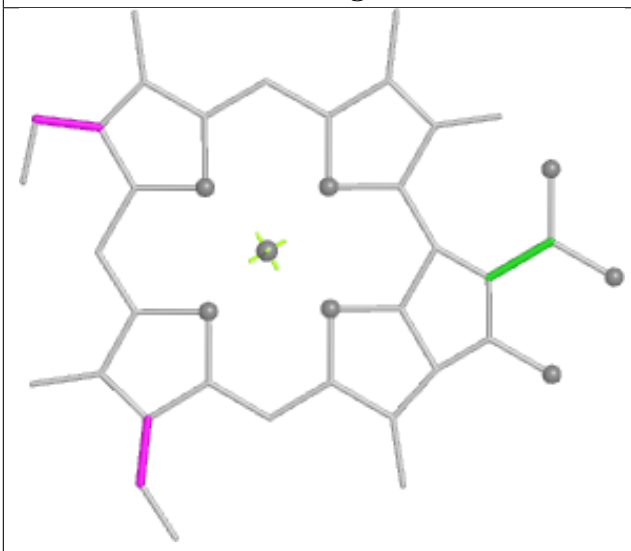
Ligand CLA 08 309



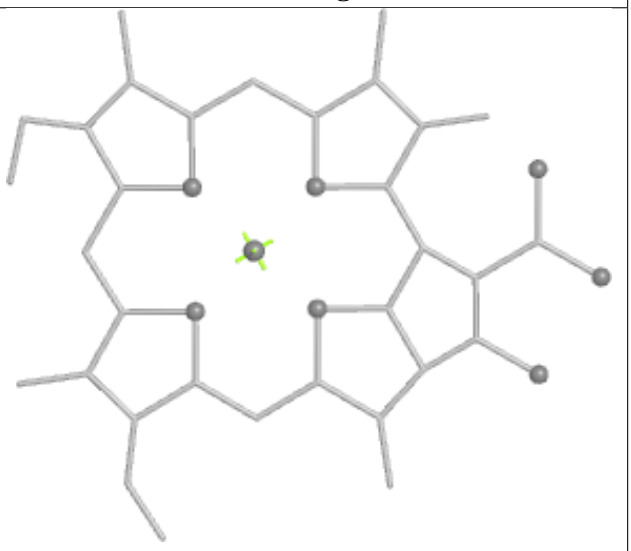
Bond lengths



Bond angles

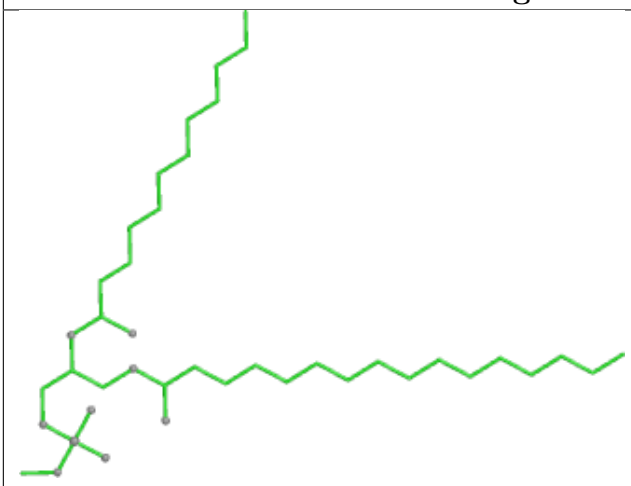


Torsions

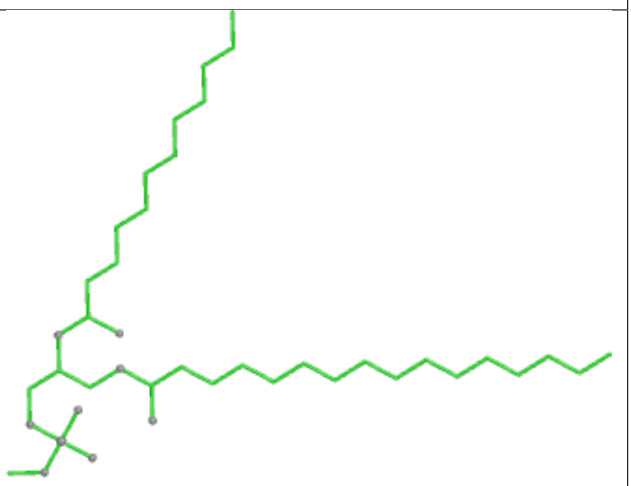


Rings

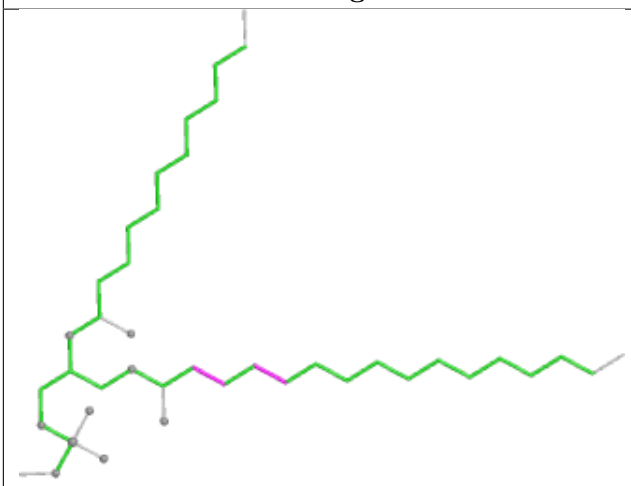
Ligand LHG 1D 413



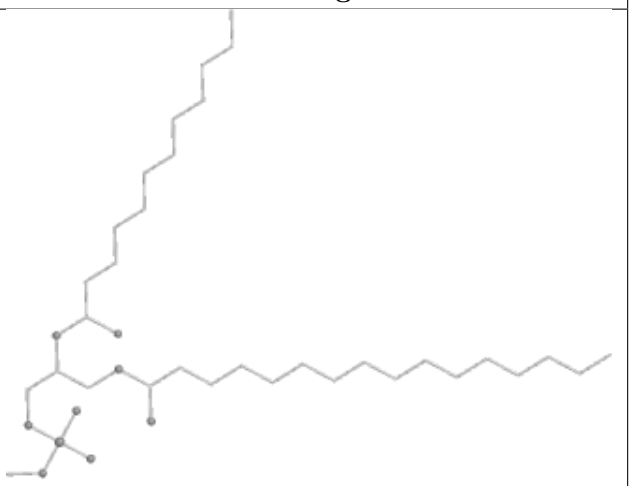
Bond lengths



Bond angles

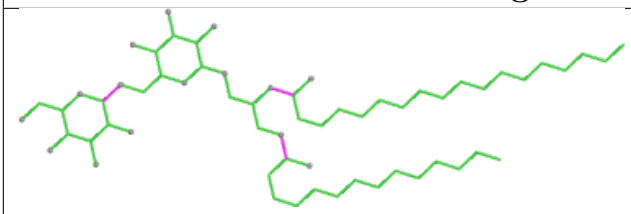


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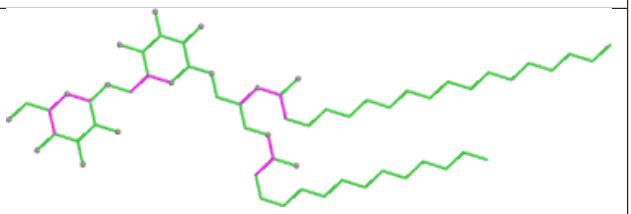


Rings

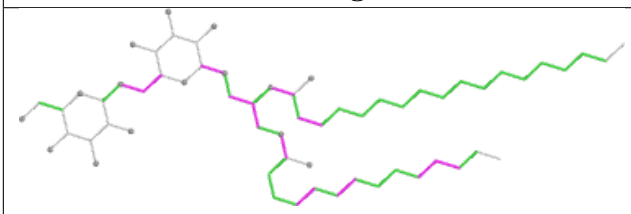
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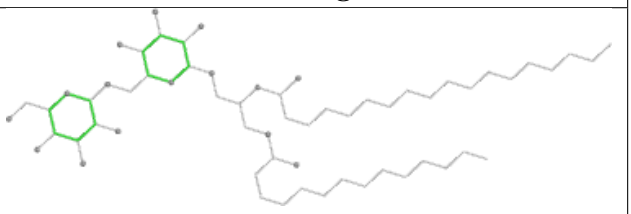
Bond lengths



Bond angles

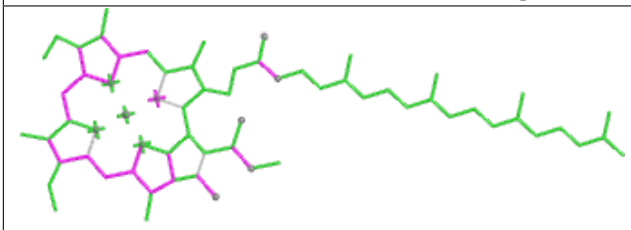


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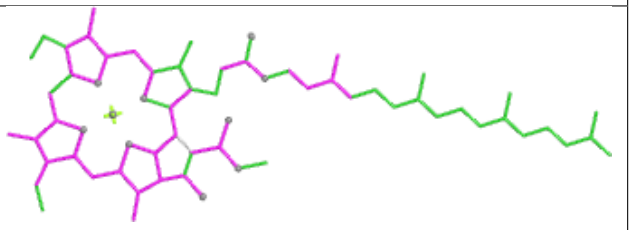


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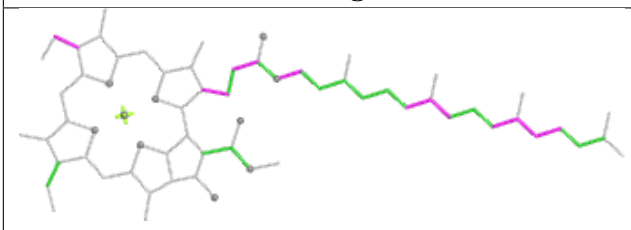
Ligand CLA 1D 404



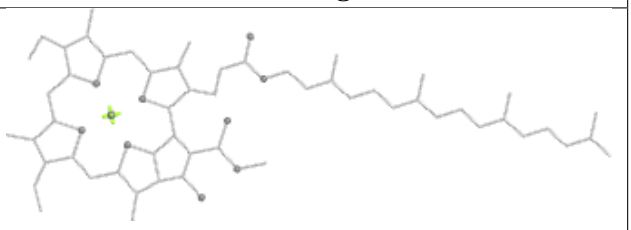
Bond lengths



Bond angles

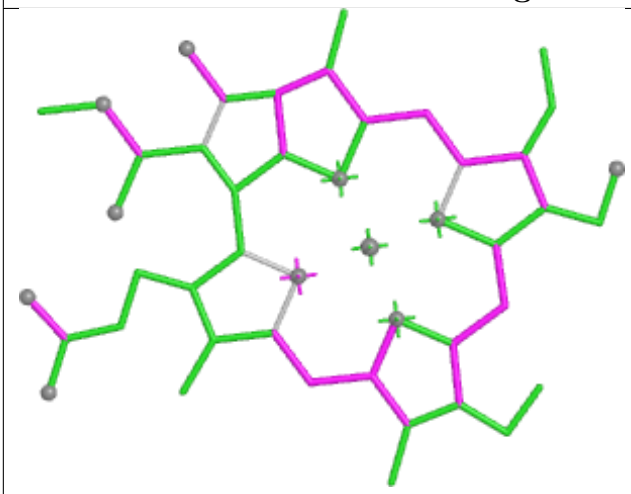


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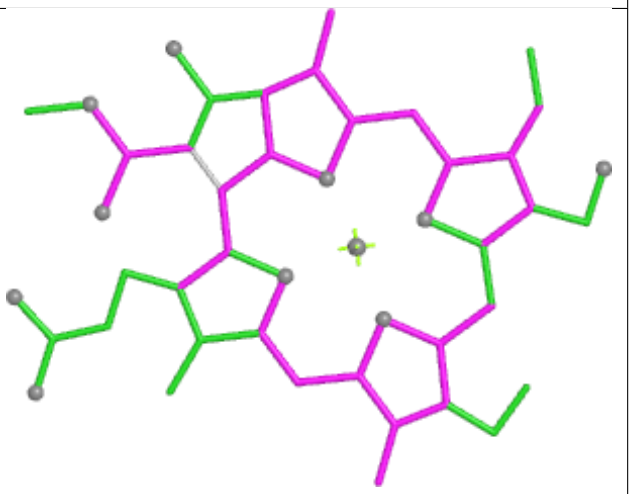


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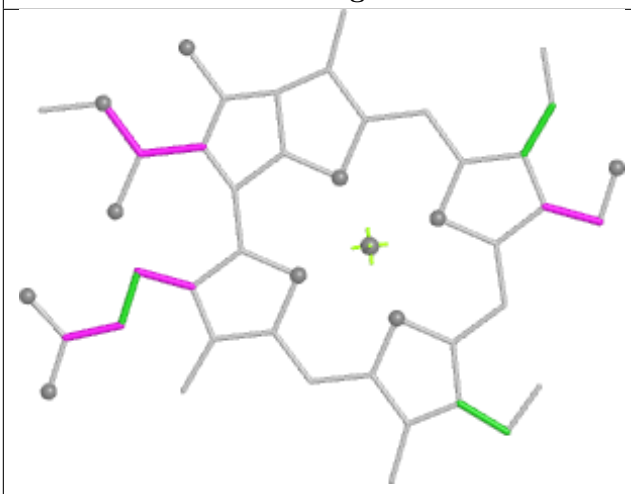
Ligand CHL 1G 606



Bond lengths



Bond angles

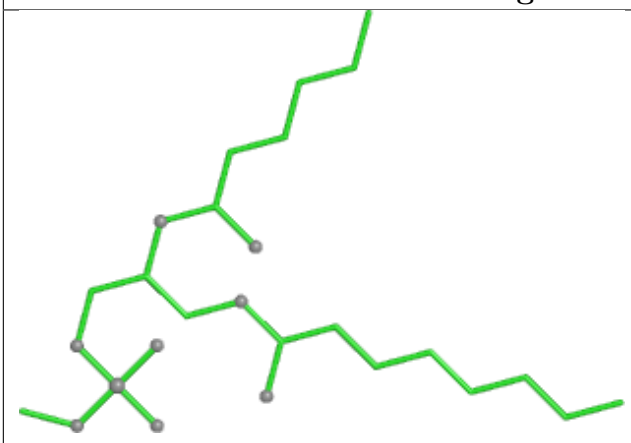


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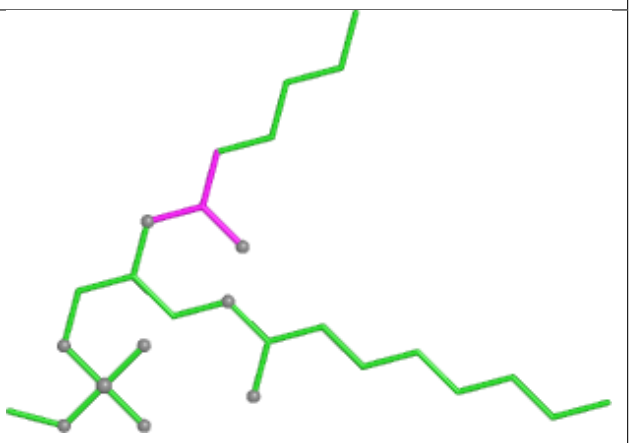


Rings

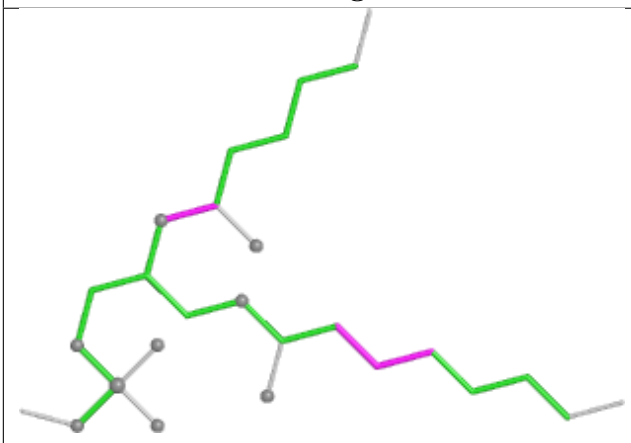
Ligand LHG 1b 623



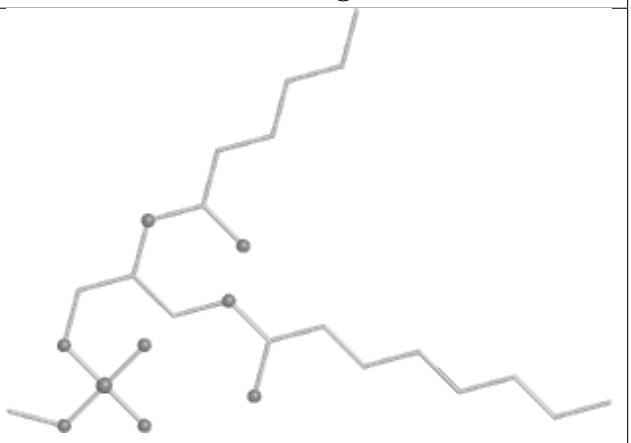
Bond lengths



Bond angles

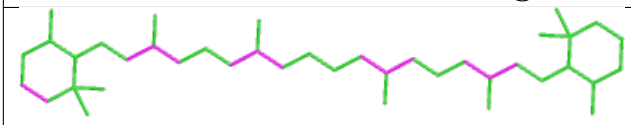


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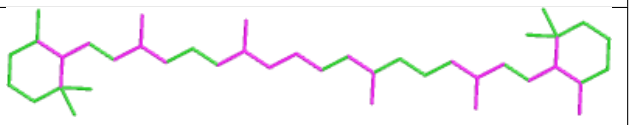


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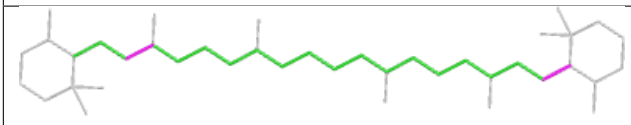
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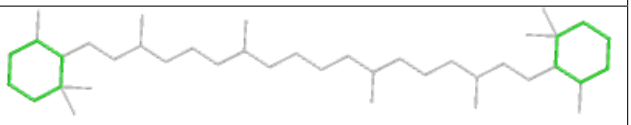
Bond lengths



Bond angles

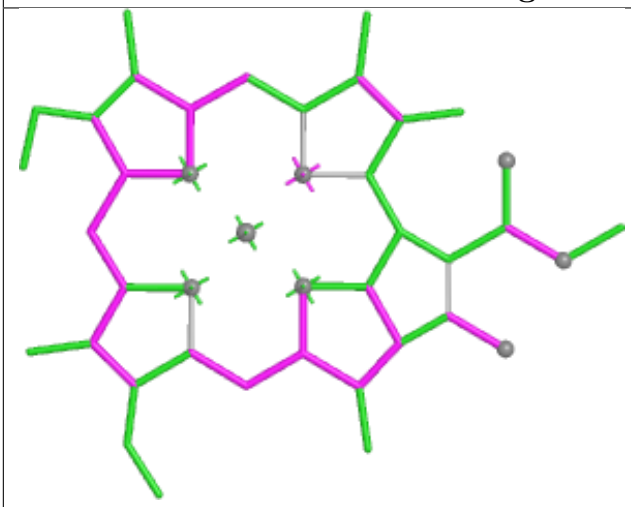


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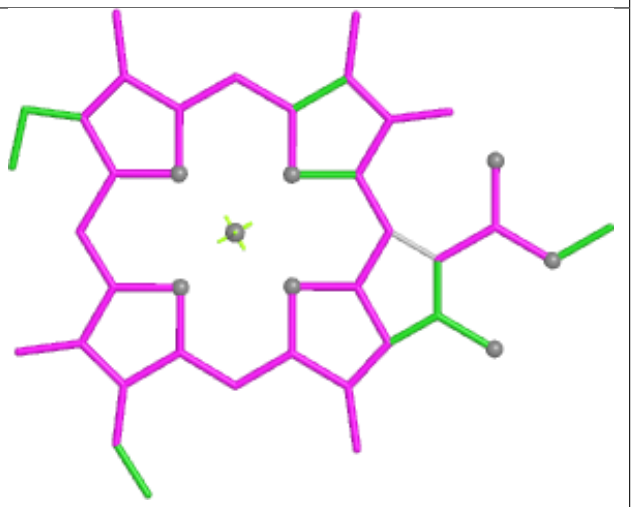


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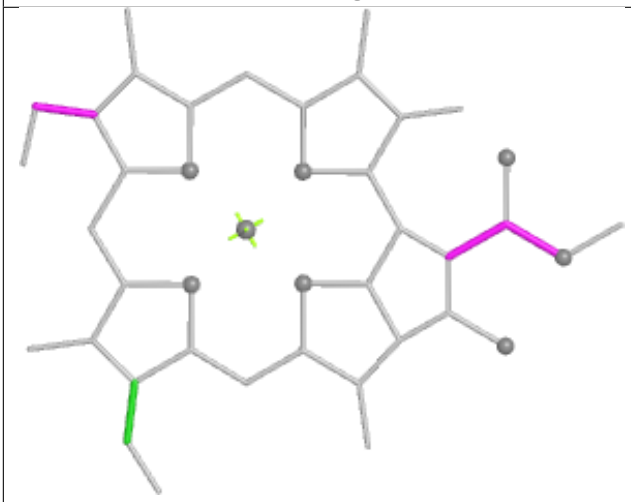
Ligand CLA 1S 305



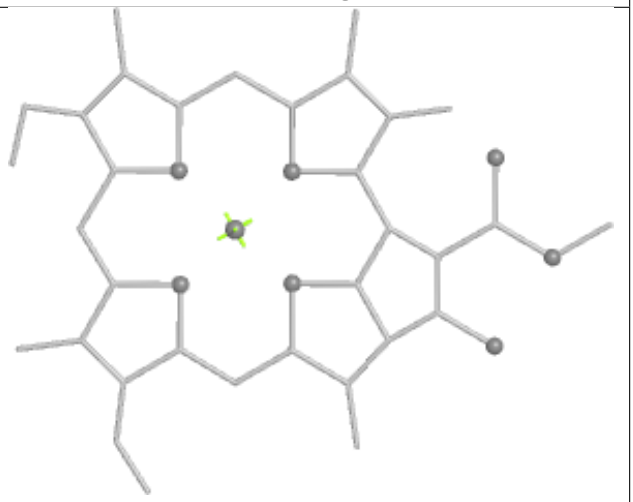
Bond lengths



Bond angles

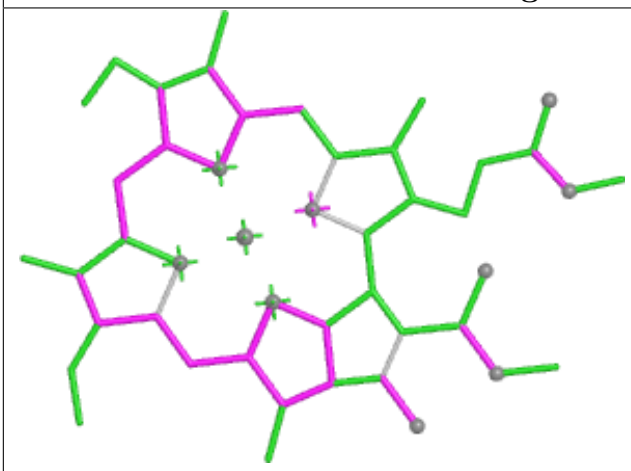


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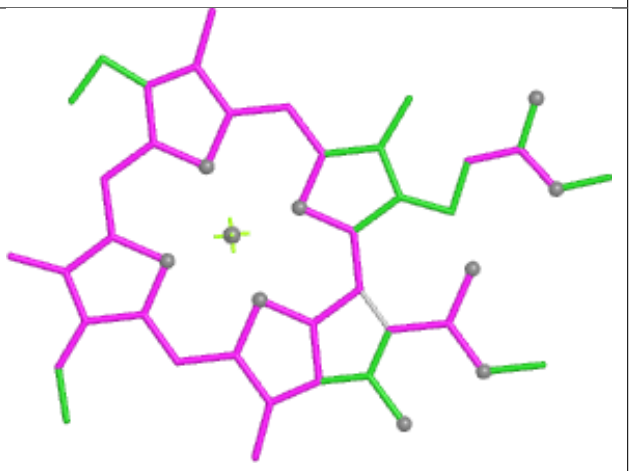


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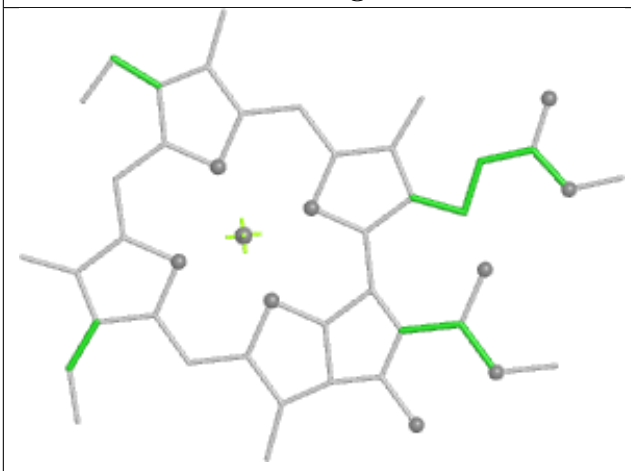
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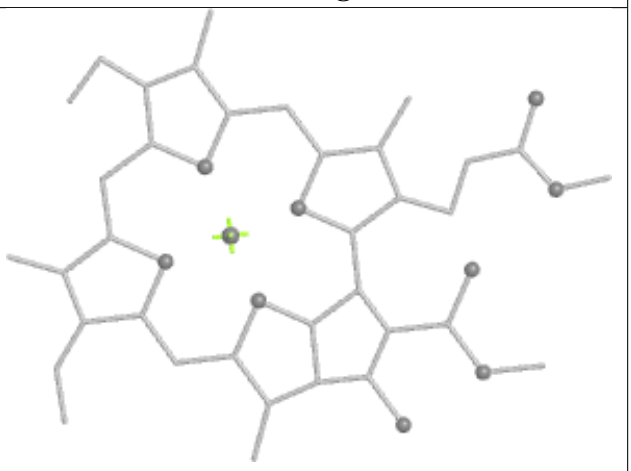
Bond lengths



Bond angles

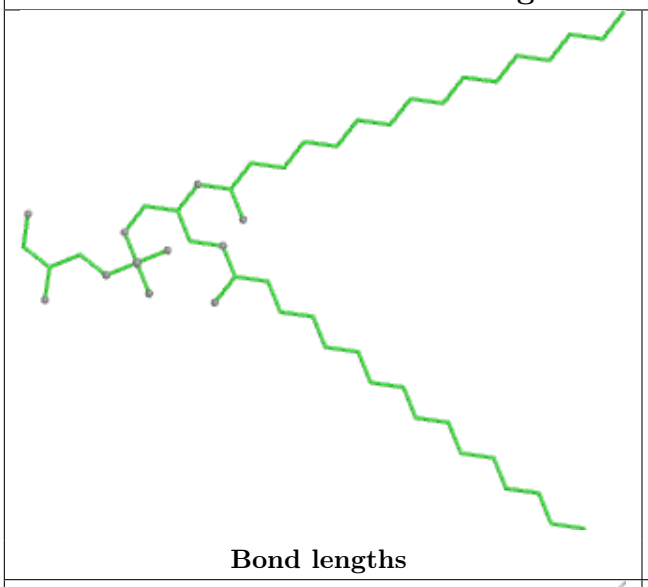


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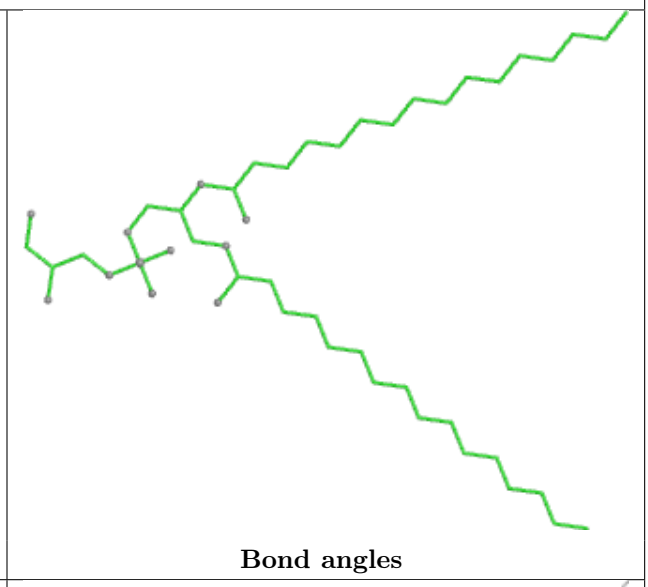


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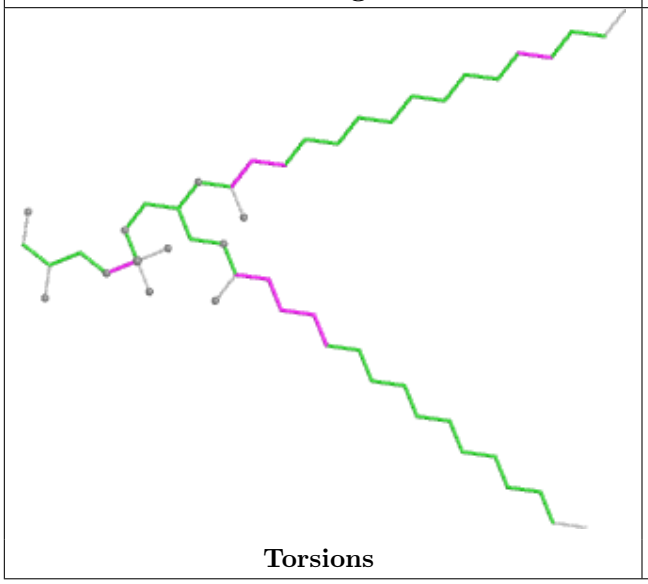
Ligand LHG 1L 101



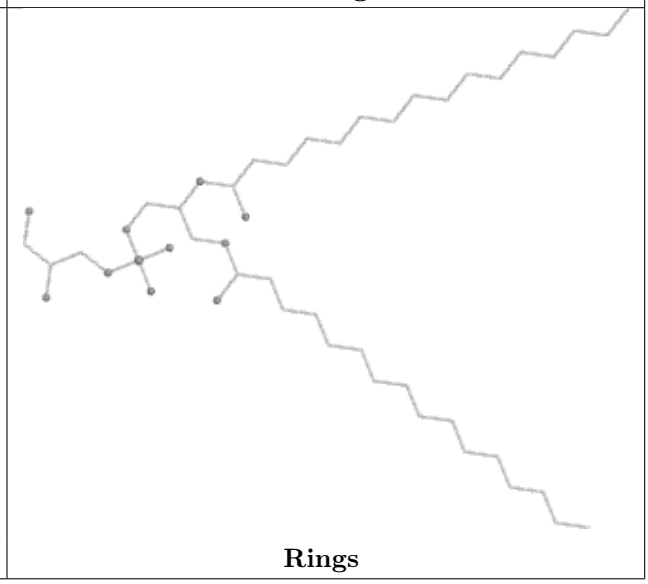
Bond lengths



Bond angles

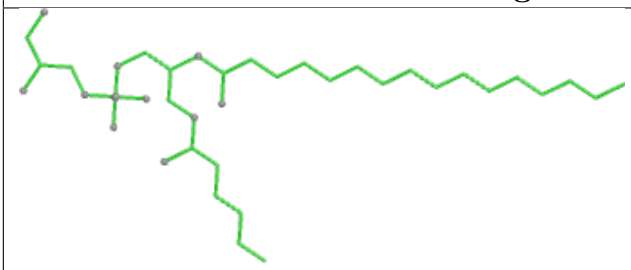


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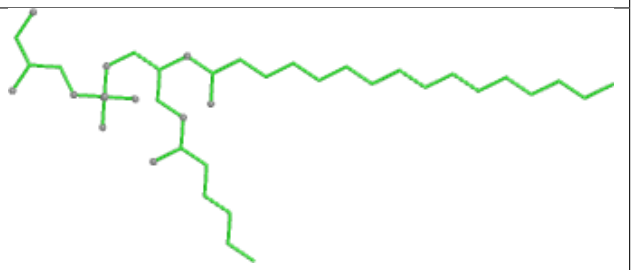


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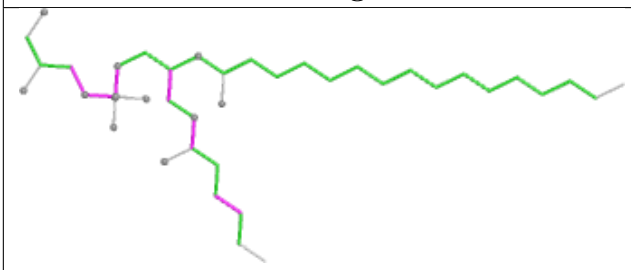
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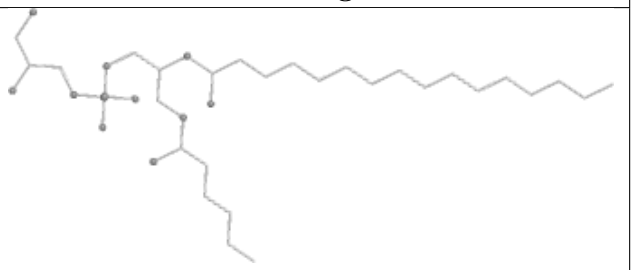
Bond lengths



Bond angles

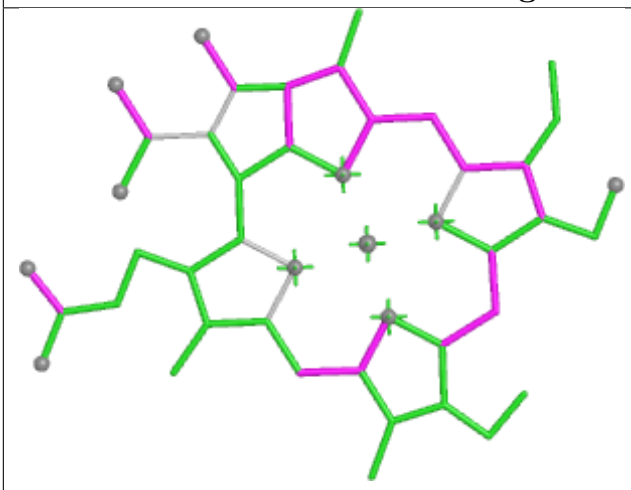


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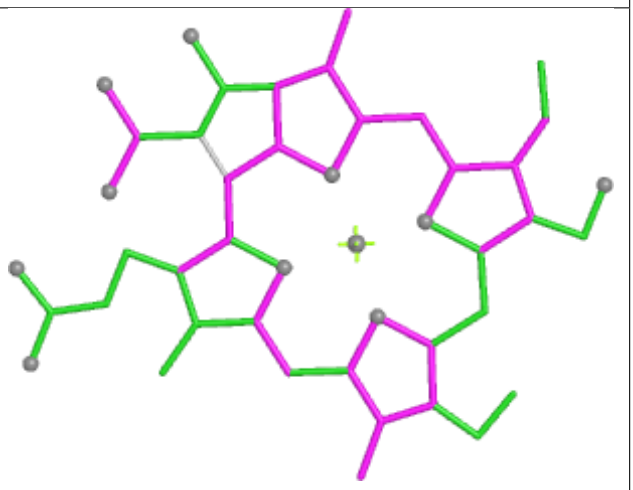


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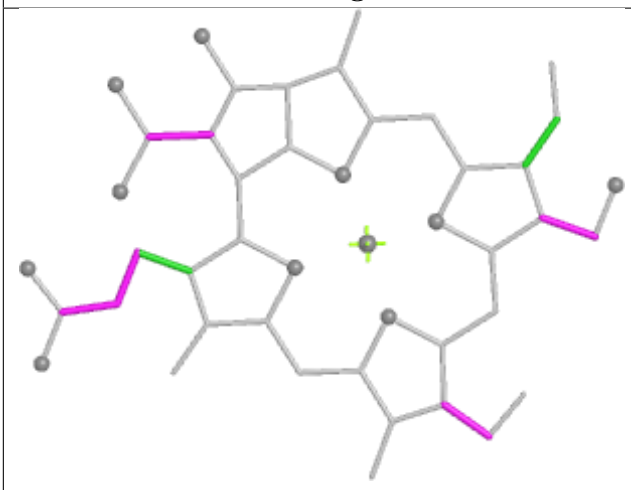
Ligand CHL 05 304



Bond lengths



Bond angles

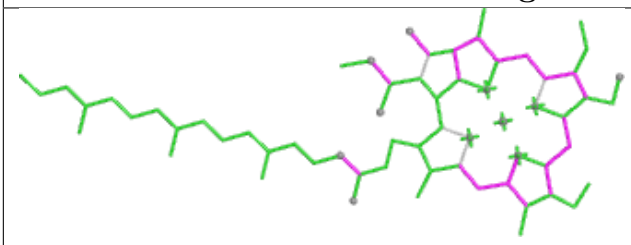


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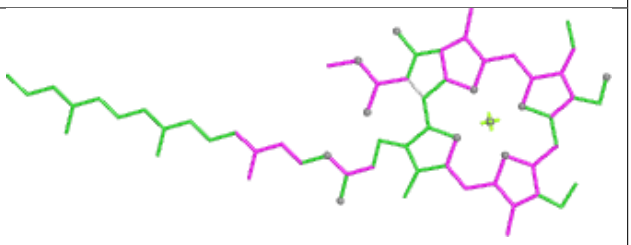


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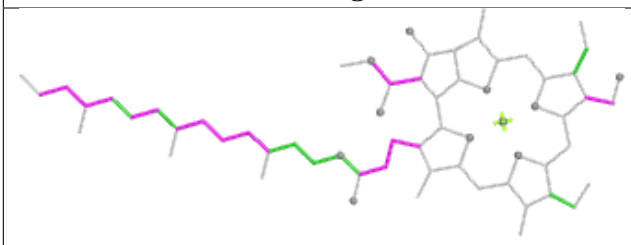
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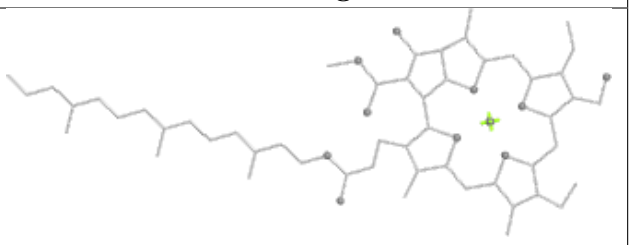
Bond lengths



Bond angles

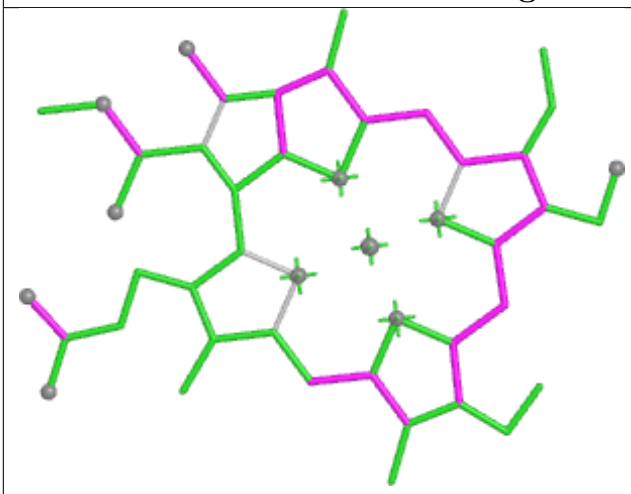


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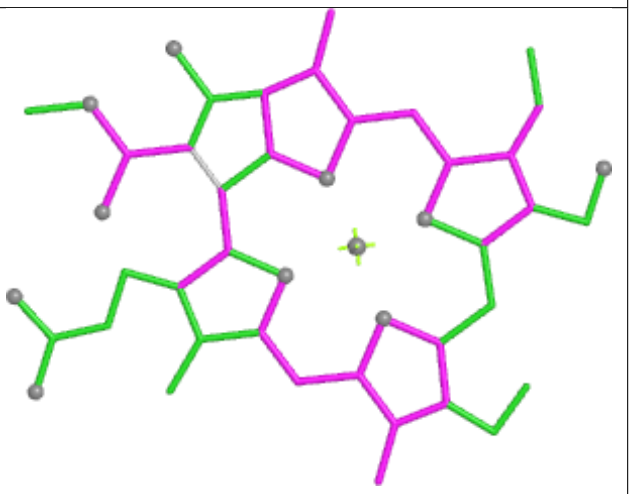


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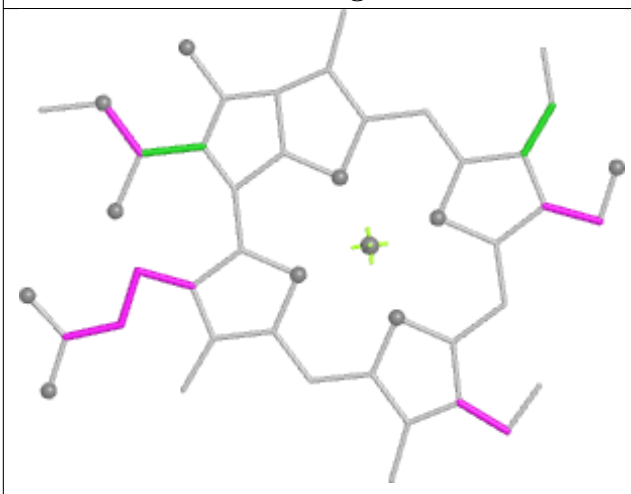
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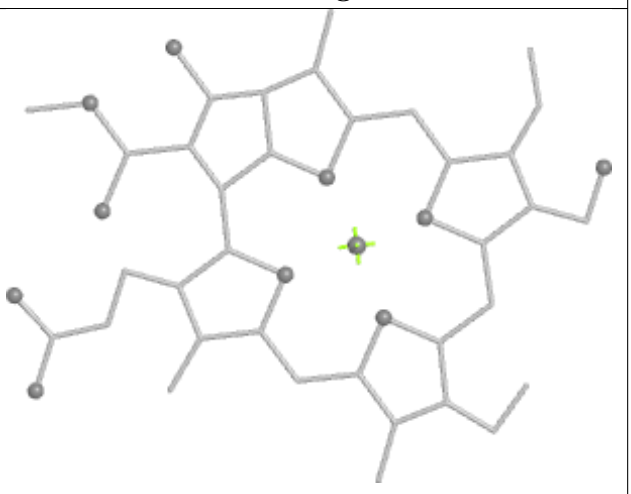
Bond lengths



Bond angles

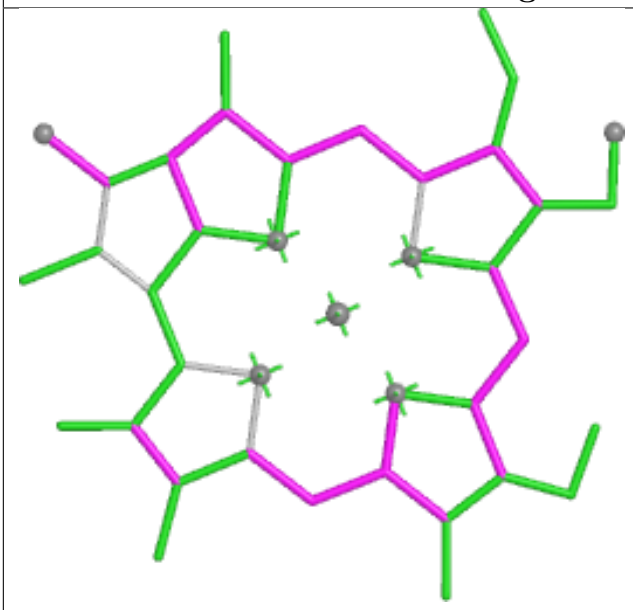


Torsions



Rings

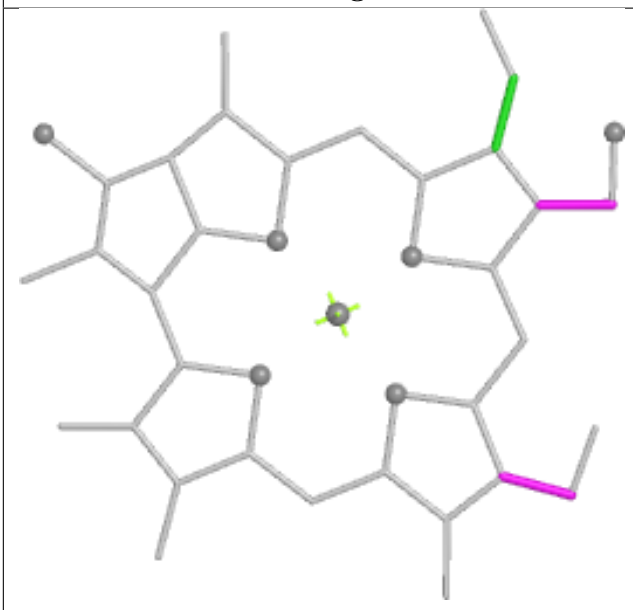
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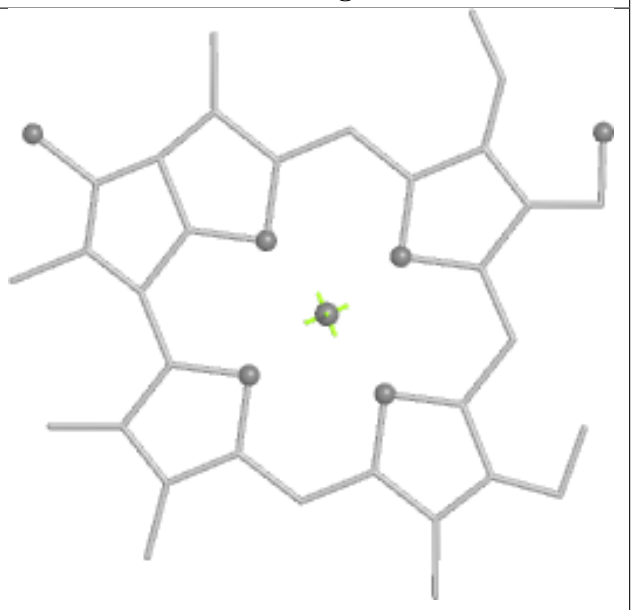
Bond lengths



Bond angles

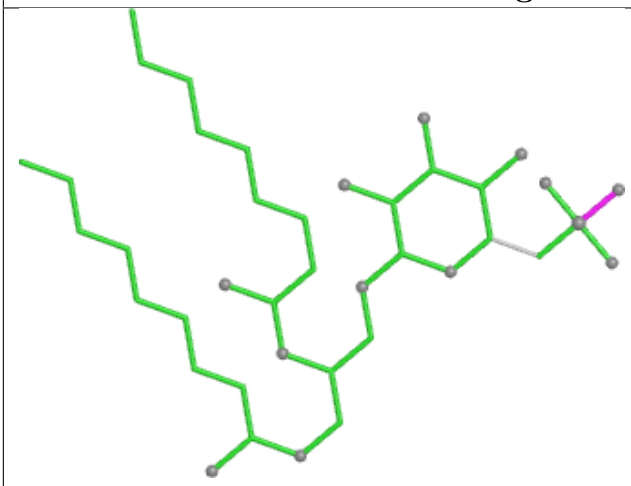


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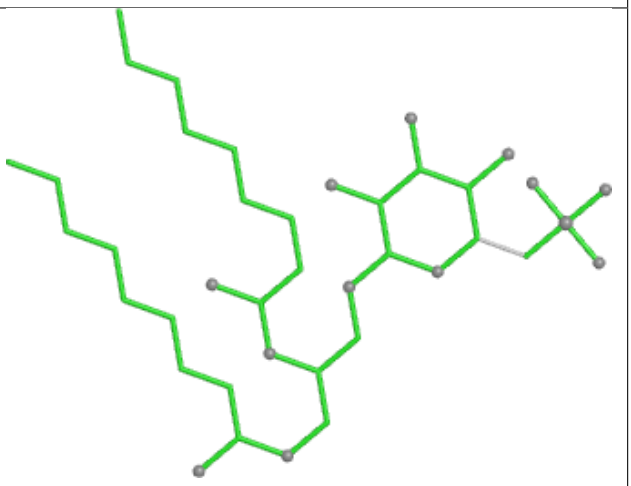


Rings

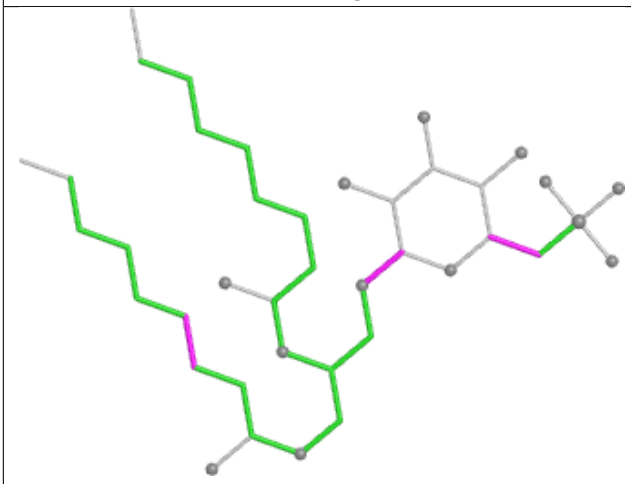
Ligand SQD 1B 629



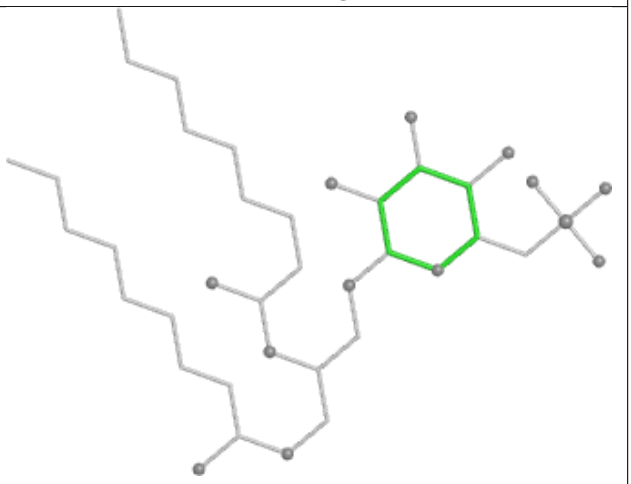
Bond lengths



Bond angles

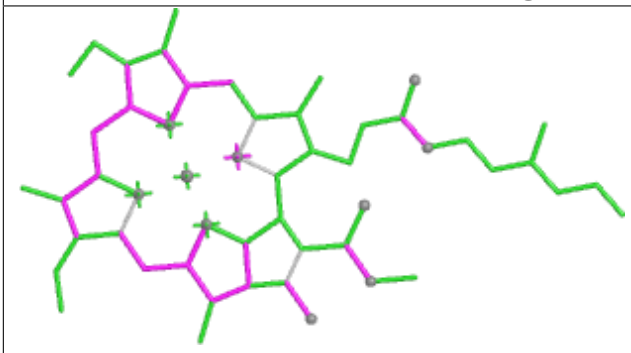


Torsions

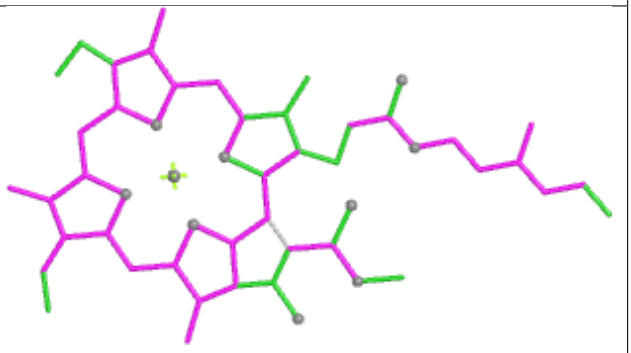


Rings

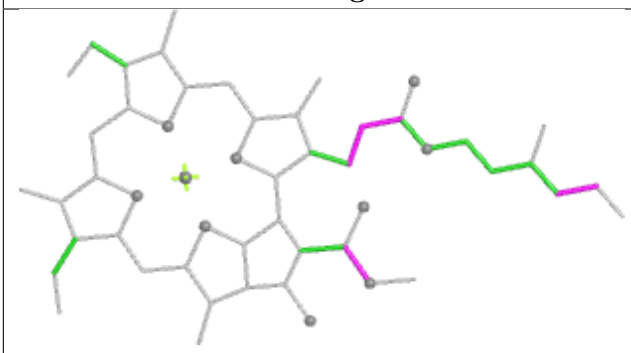
Ligand CLA 1a 405



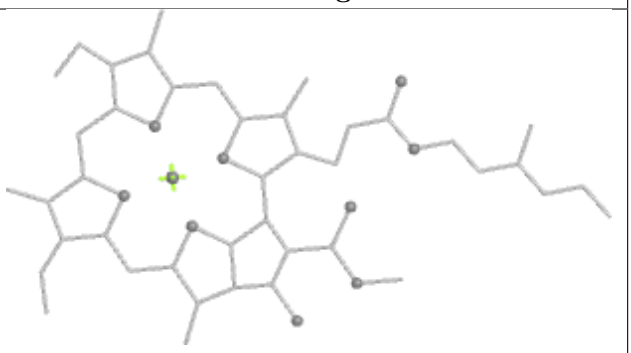
Bond lengths



Bond angles

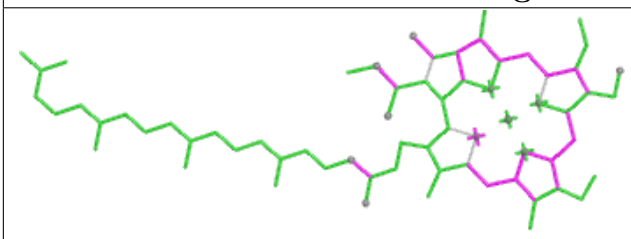


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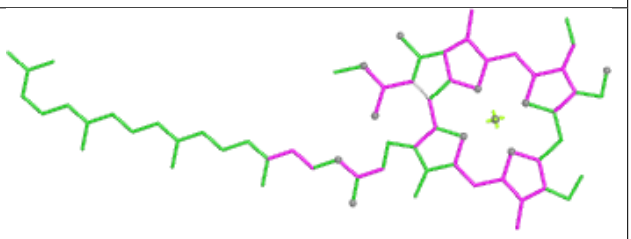


Rings

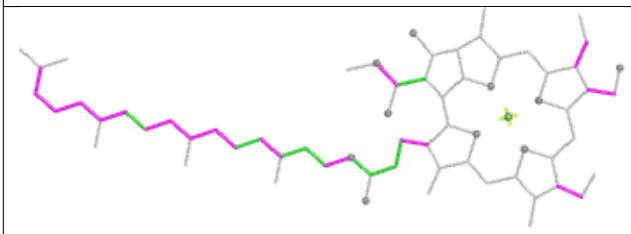
Ligand CHL 1N 310



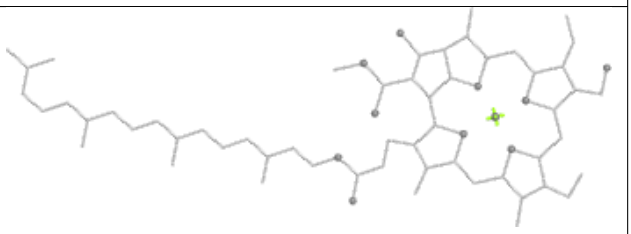
Bond lengths



Bond angles

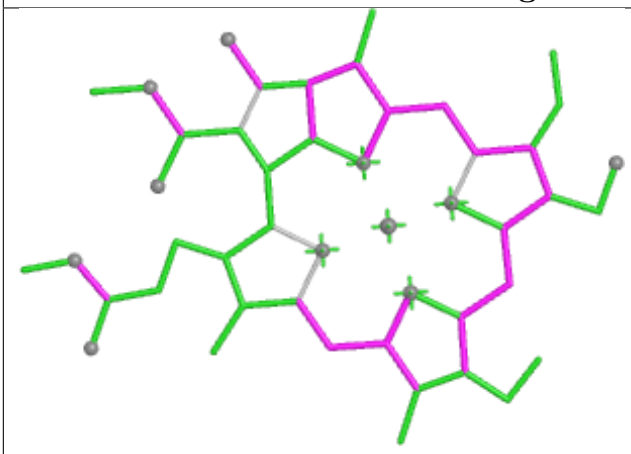


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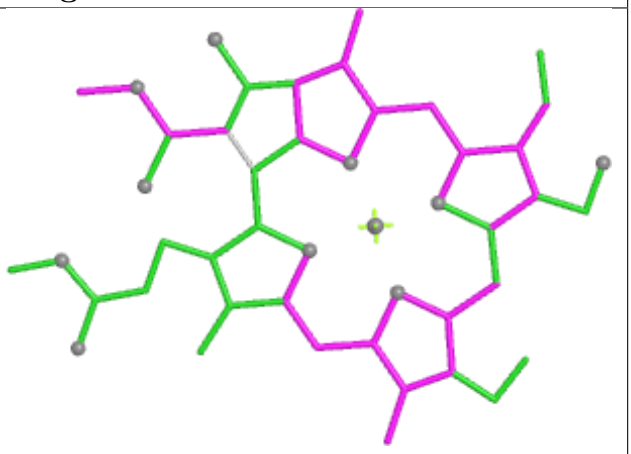


Rings

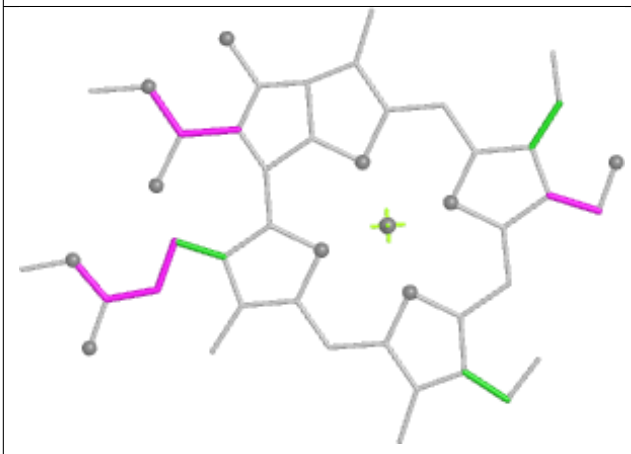
Ligand CHL 1g 607



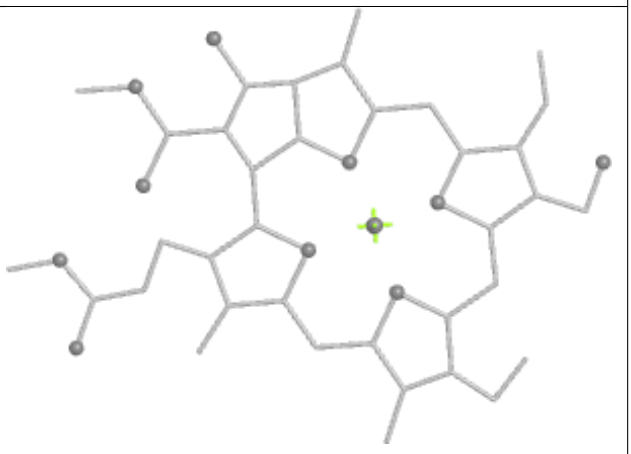
Bond lengths



Bond angles

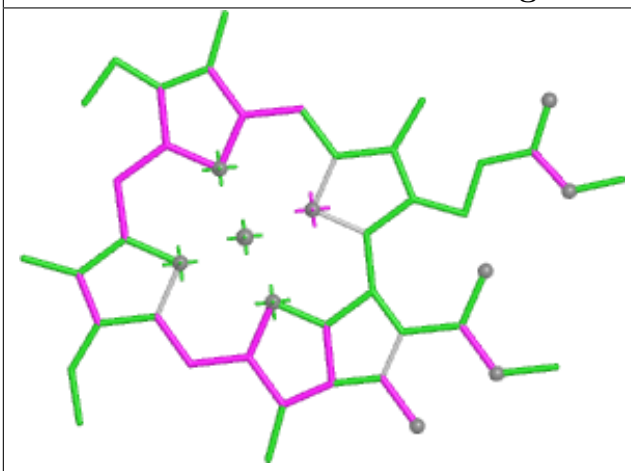


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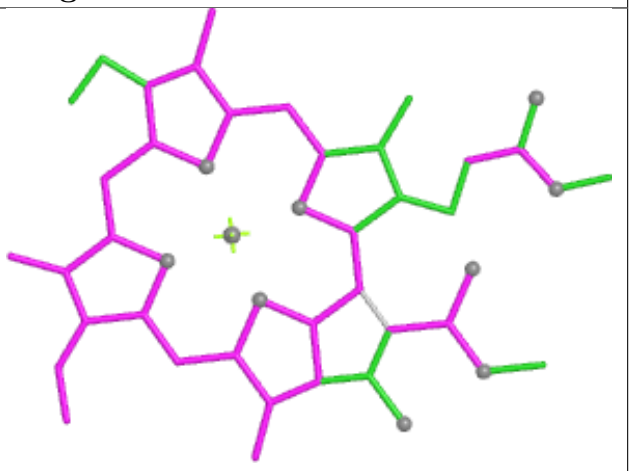


Rings

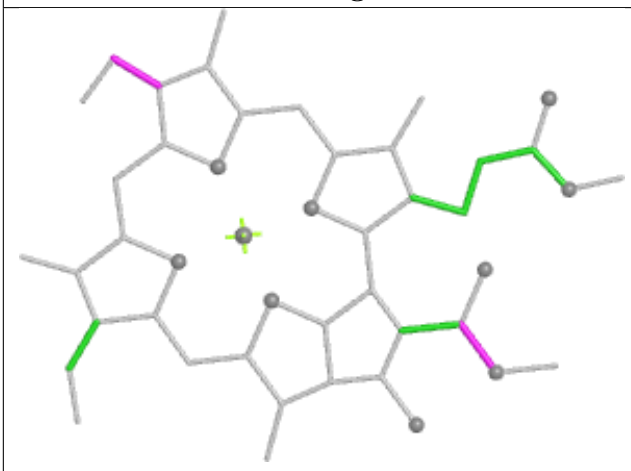
Ligand CLA 1g 603



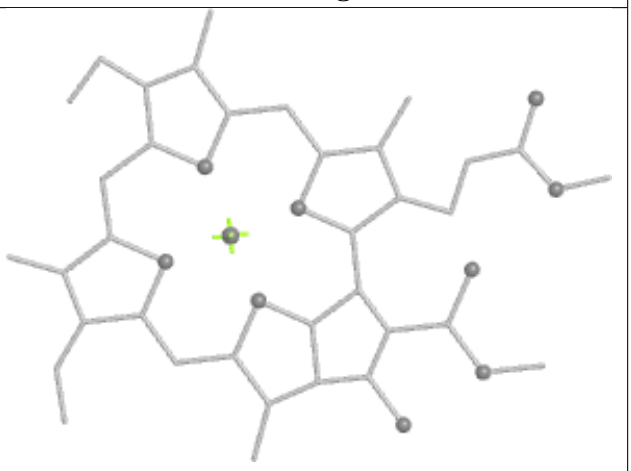
Bond lengths



Bond angles

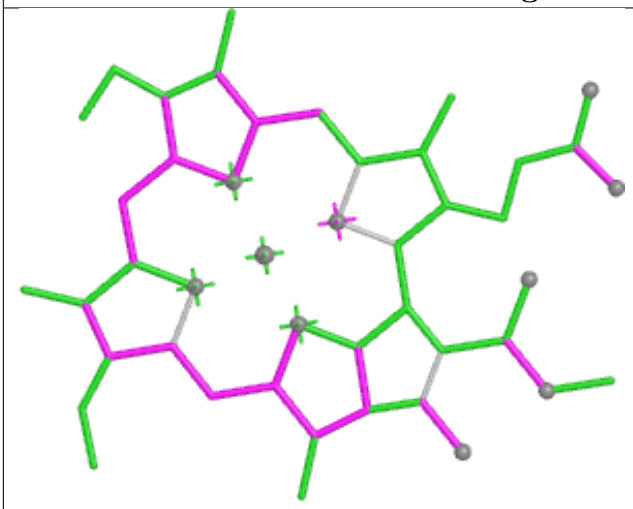


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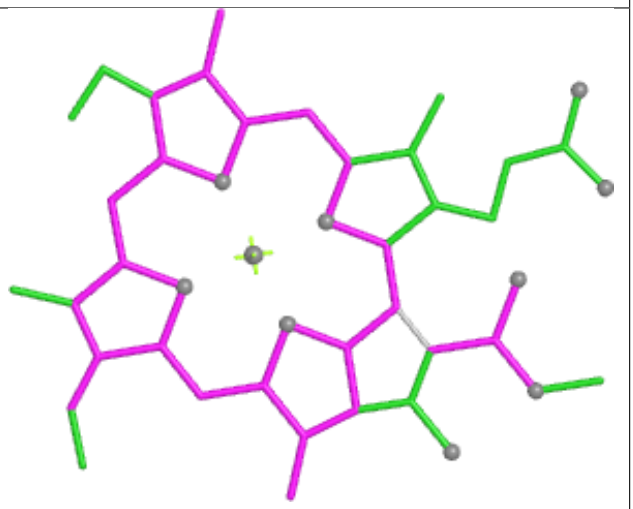


Rings

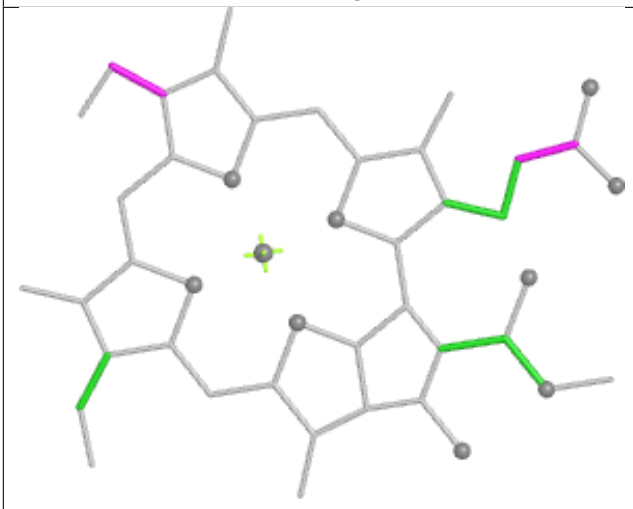
Ligand CLA 1r 311



Bond lengths



Bond angles

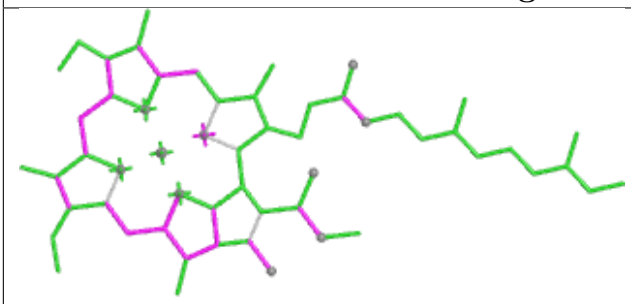


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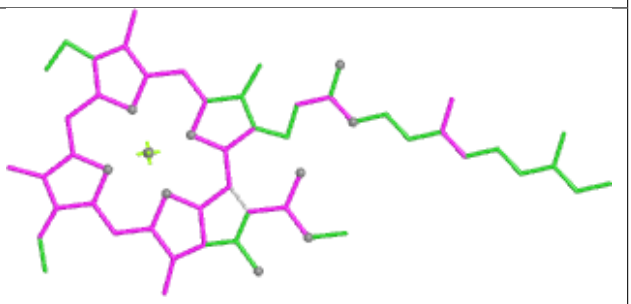


Rings

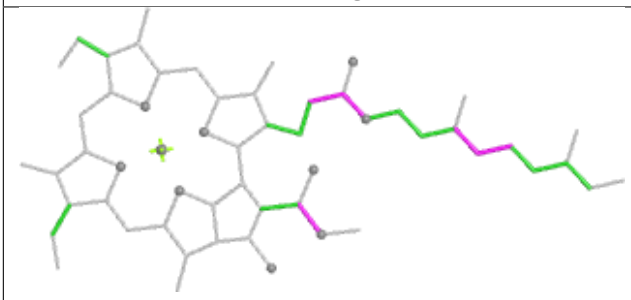
Ligand CLA 1b 603



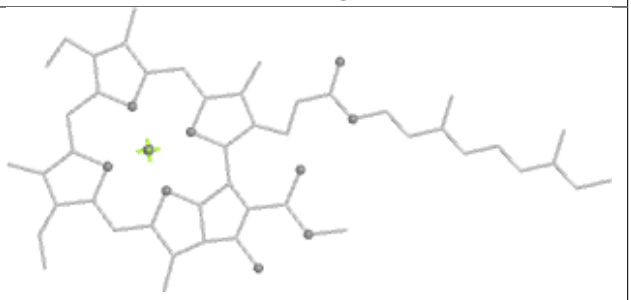
Bond lengths



Bond angles

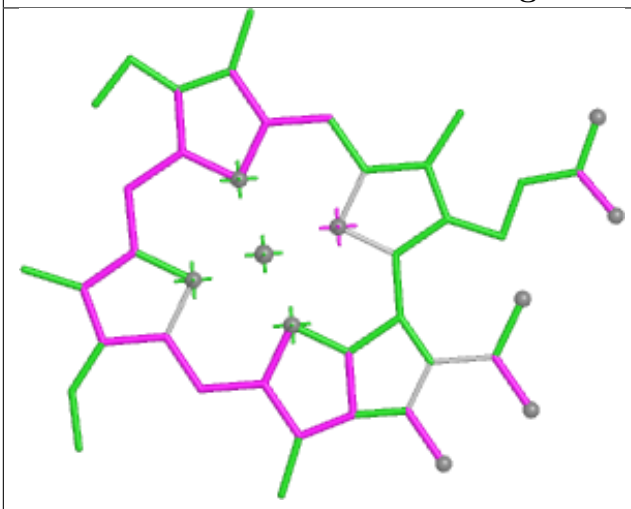


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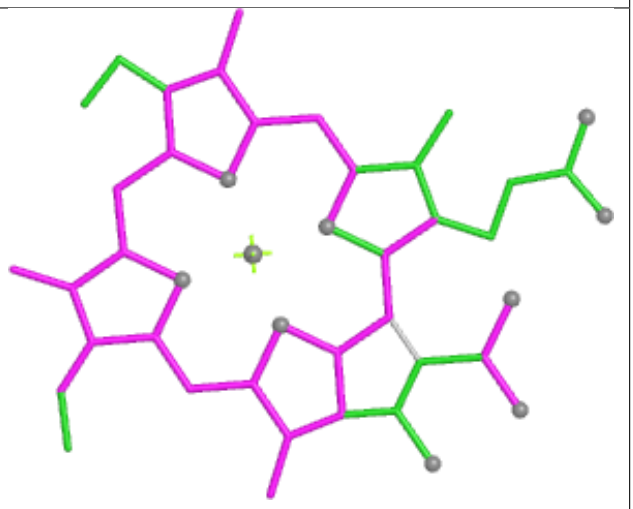


Rings

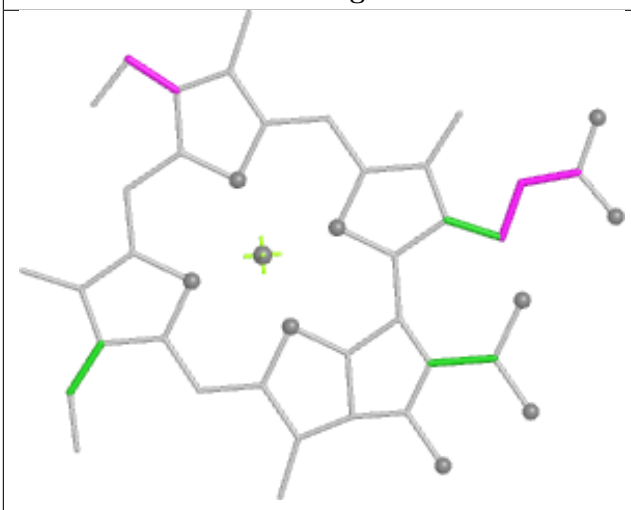
Ligand CLA 04 306



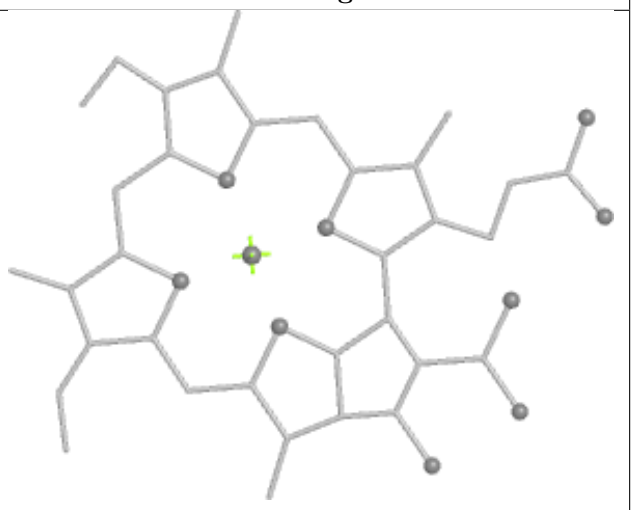
Bond lengths



Bond angles

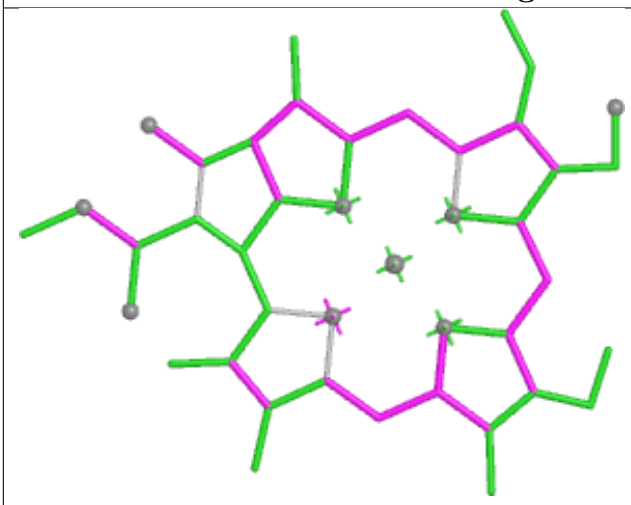


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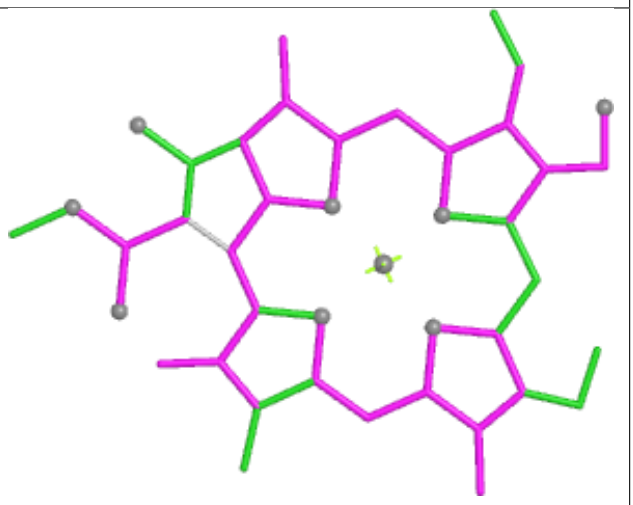


Rings

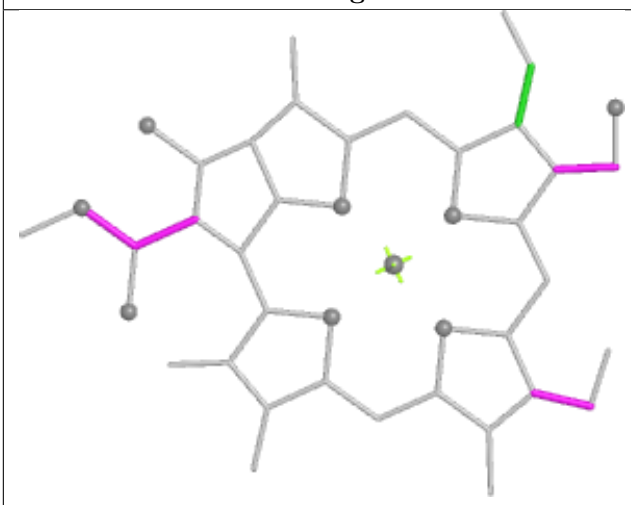
Ligand CHL 1S 308



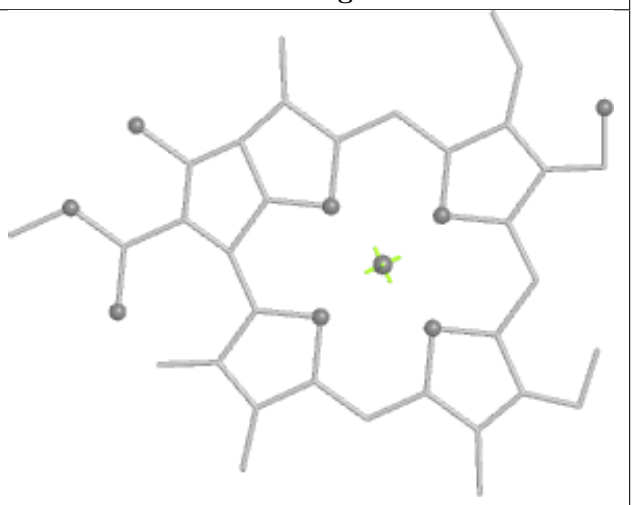
Bond lengths



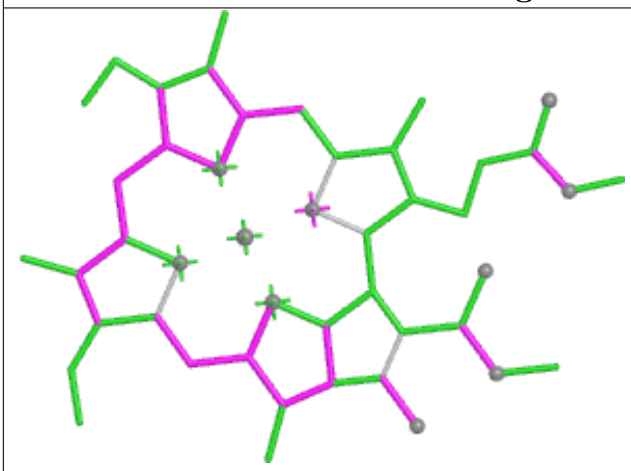
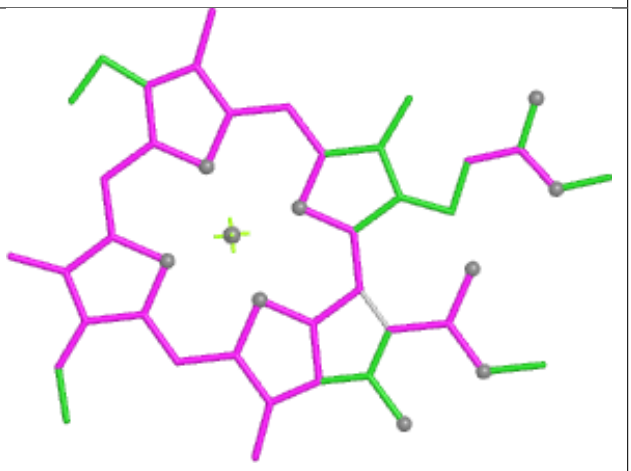
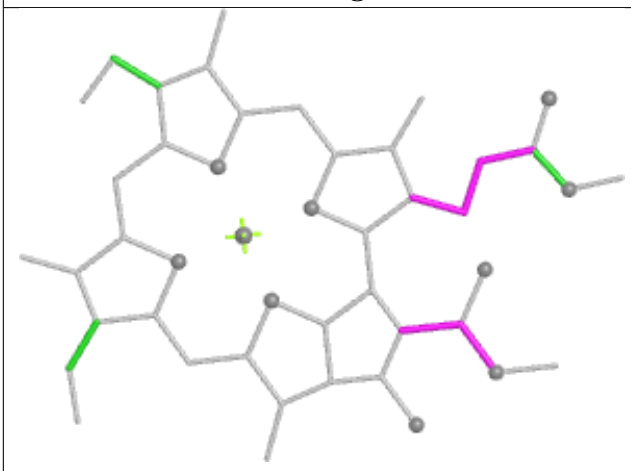
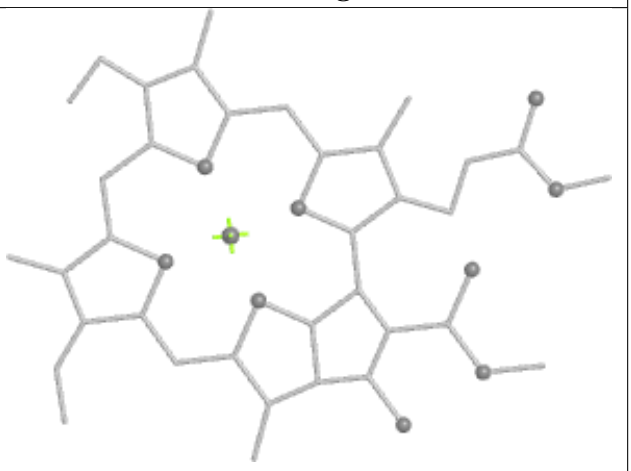
Bond angles



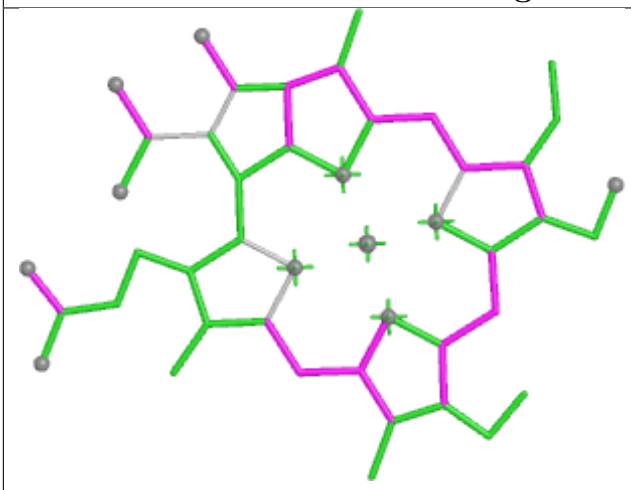
Torsions



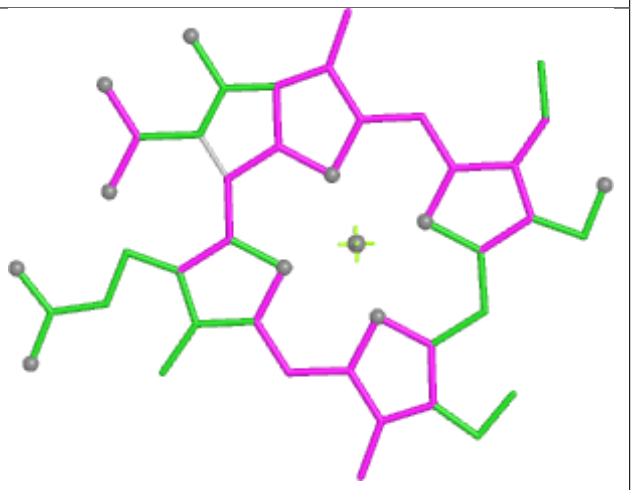
Rings

Ligand CLA 1C 511	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

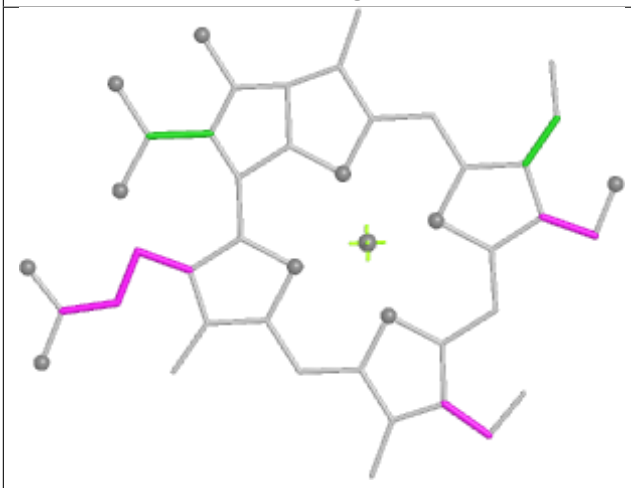
Ligand CHL 1R 313



Bond lengths



Bond angles

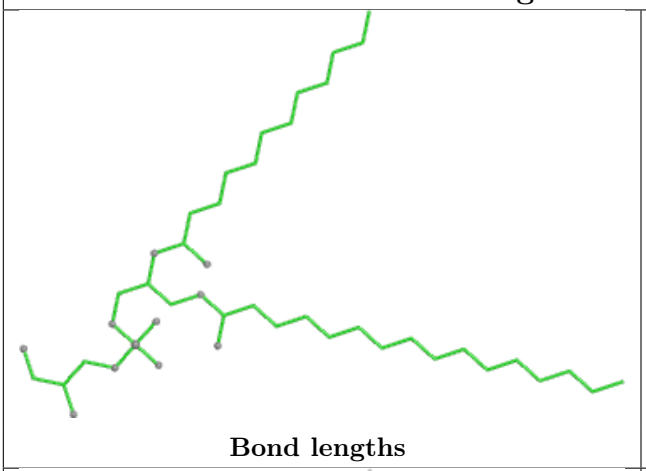


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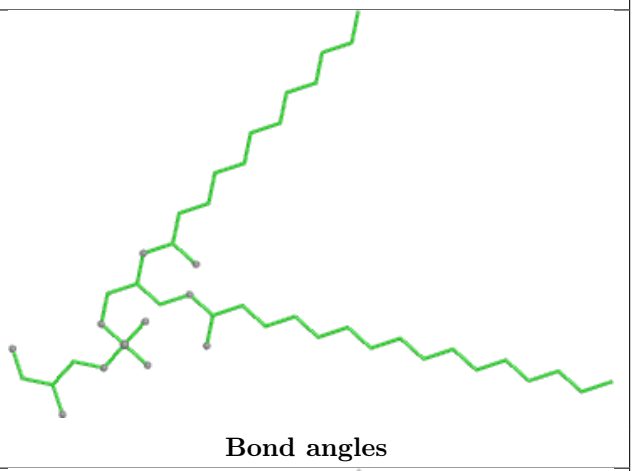


Rings

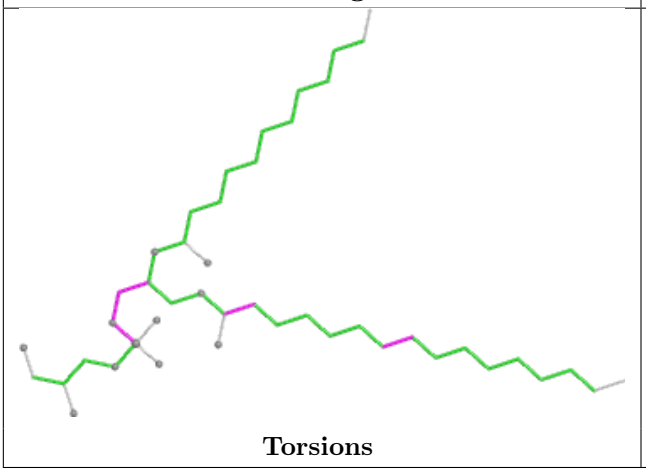
Ligand LHG 1b 625



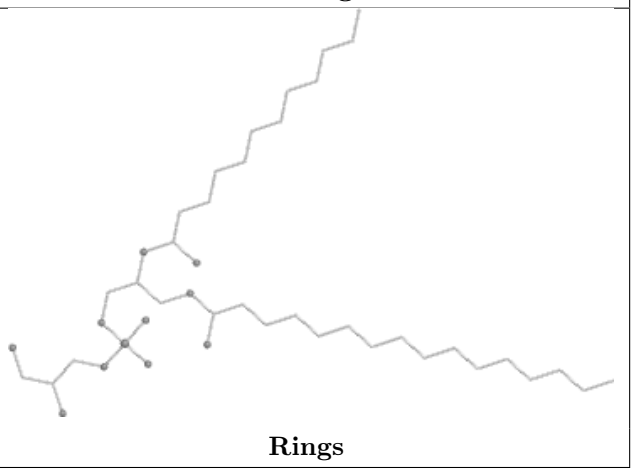
Bond lengths



Bond angles

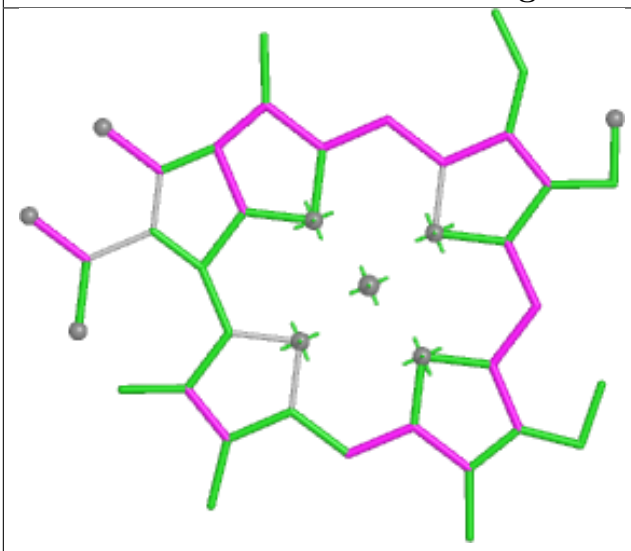


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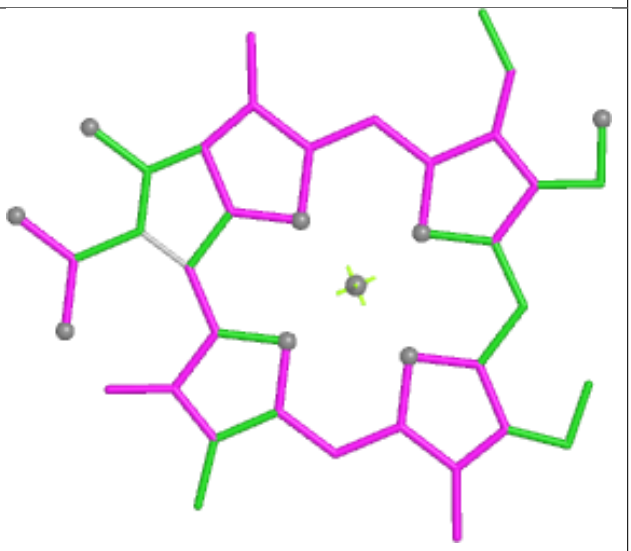


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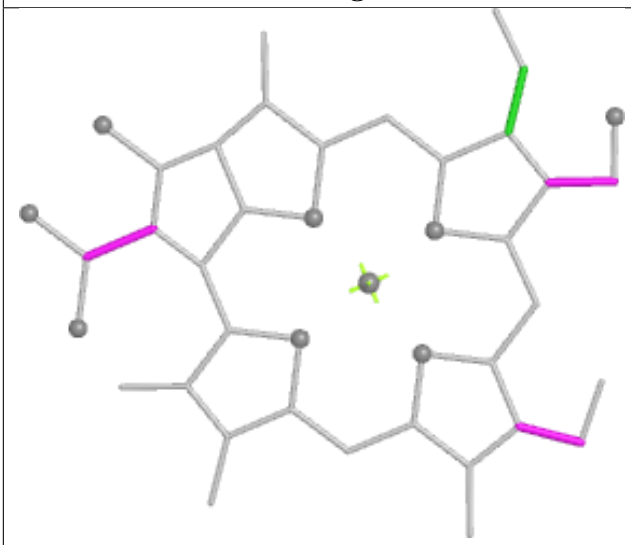
Ligand CHL 05 313



Bond lengths



Bond angles

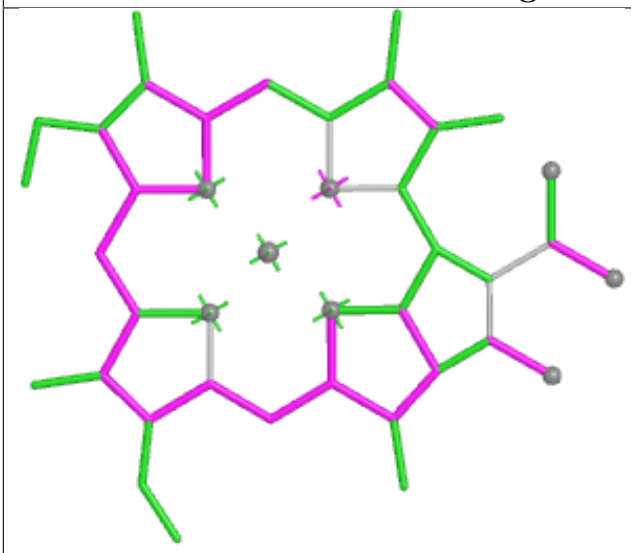


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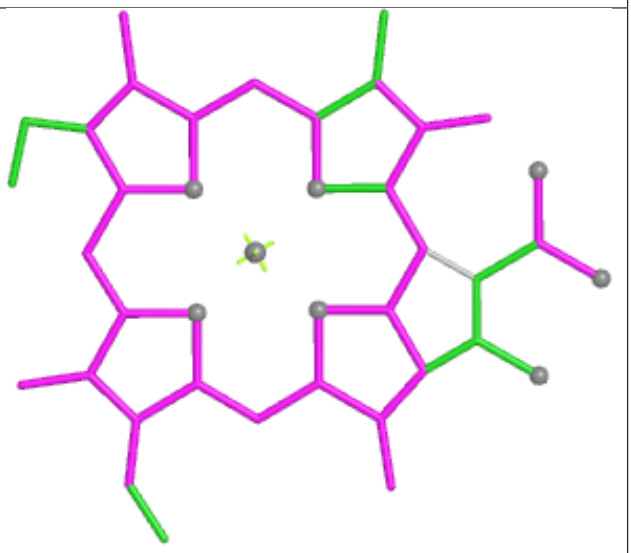


Rings

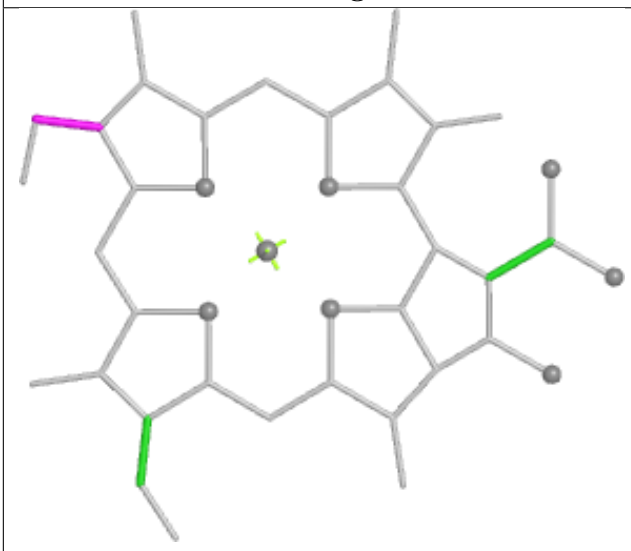
Ligand CLA 06 608



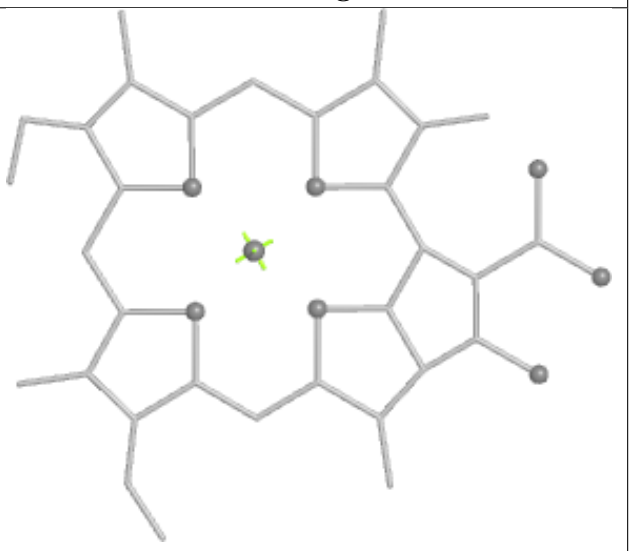
Bond lengths



Bond angles

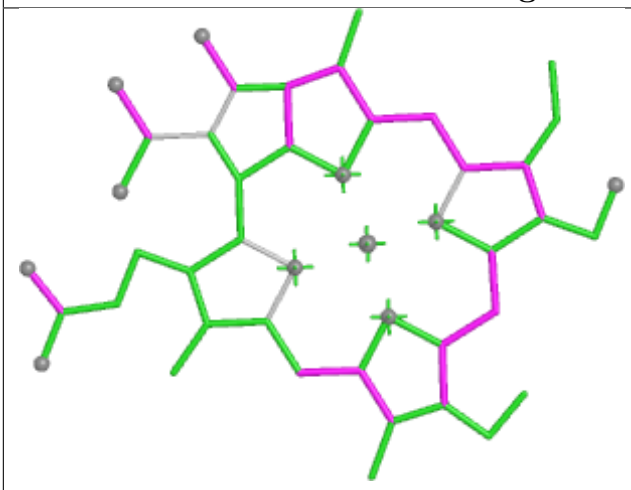


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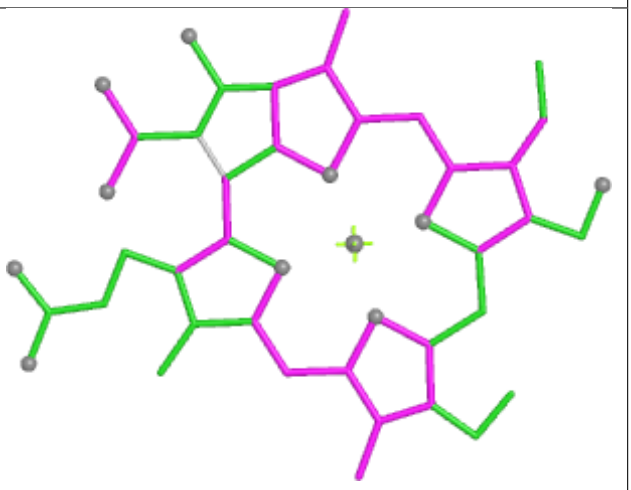


Rings

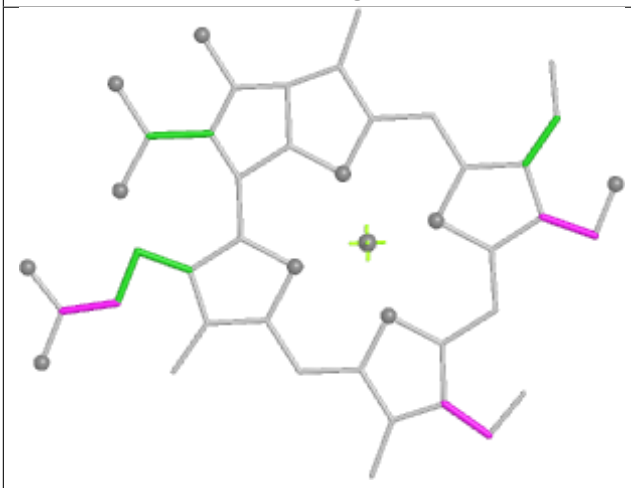
Ligand CHL 02 604



Bond lengths



Bond angles

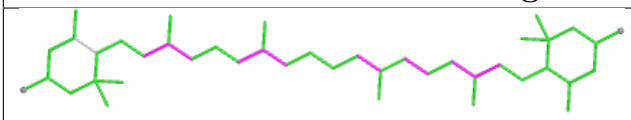


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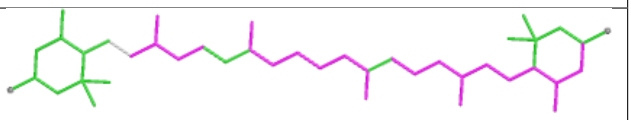


Rings

Ligand LUT 1s 318



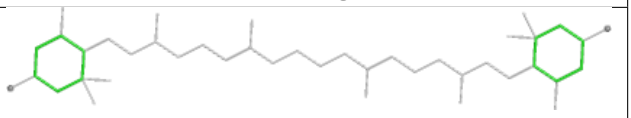
Bond lengths



Bond angles

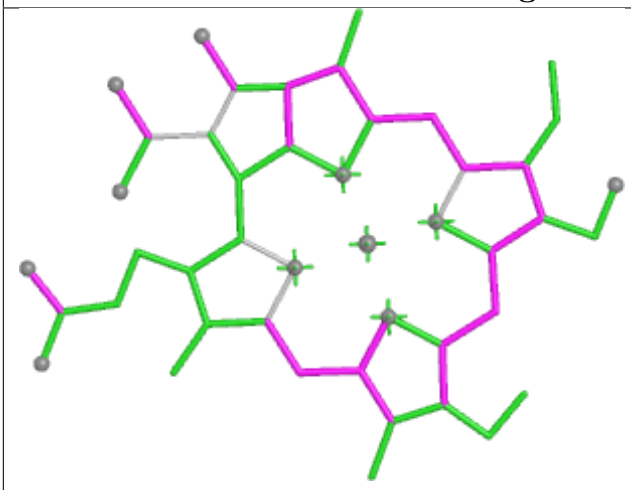


Torsions

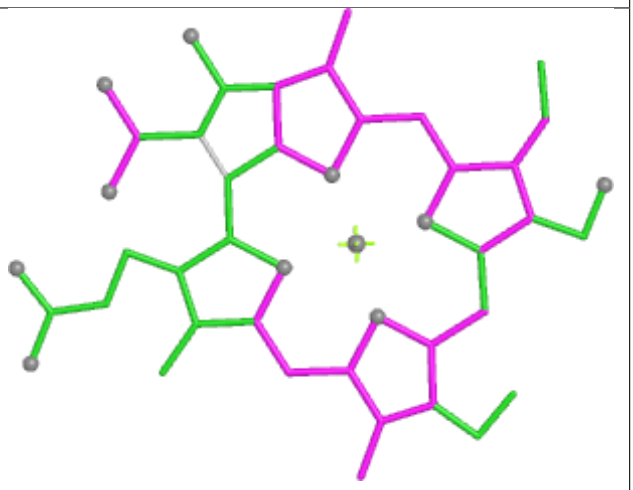


Rings

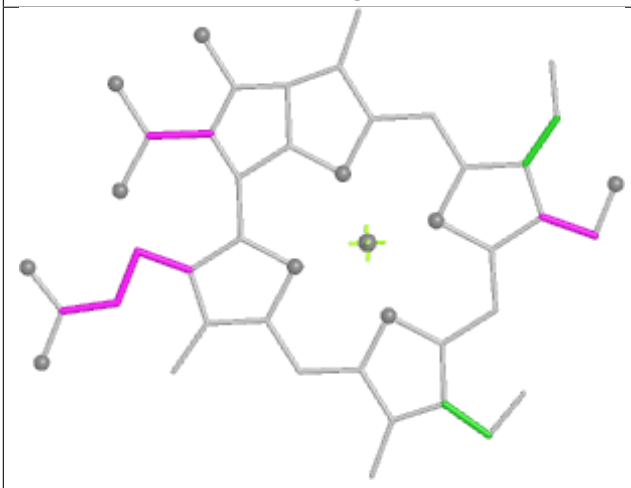
Ligand CHL 08 303



Bond lengths



Bond angles

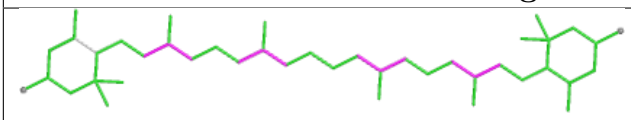


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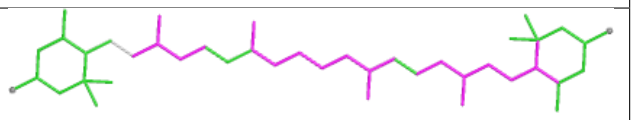


Rings

Ligand LUT 01 314



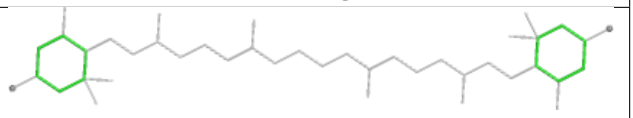
Bond lengths



Bond angles

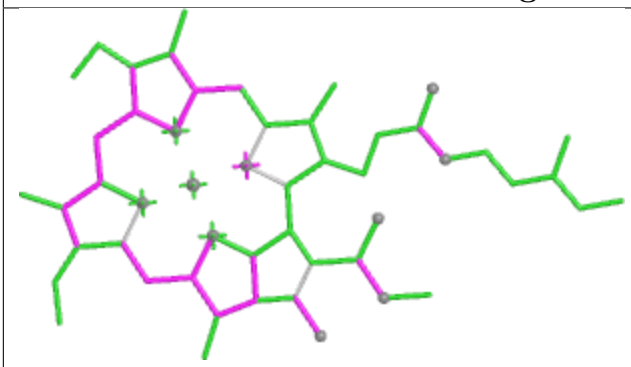


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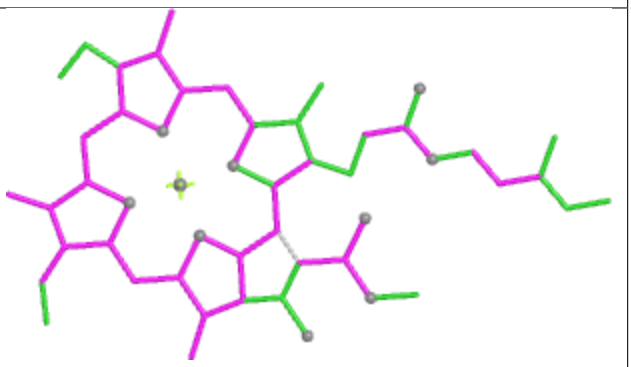


Rings

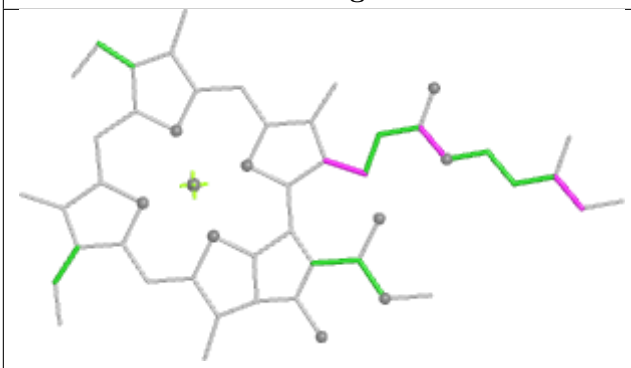
Ligand CLA 00 310



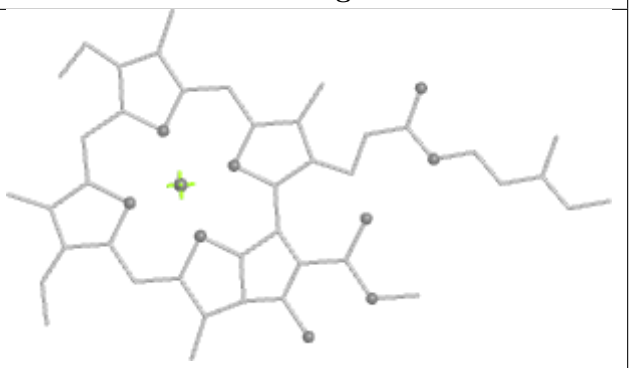
Bond lengths



Bond angles

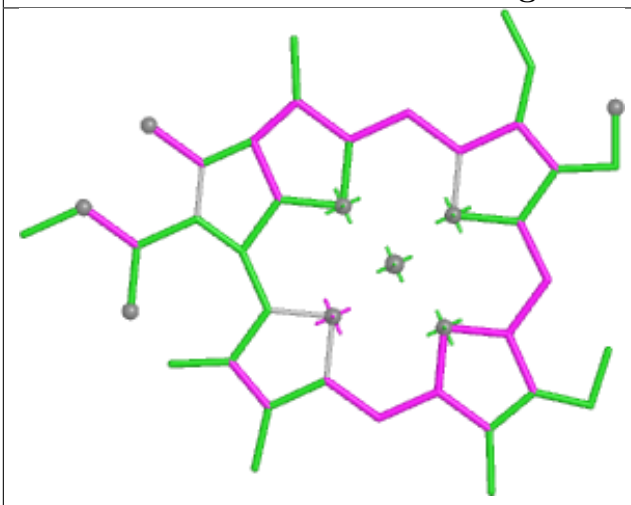


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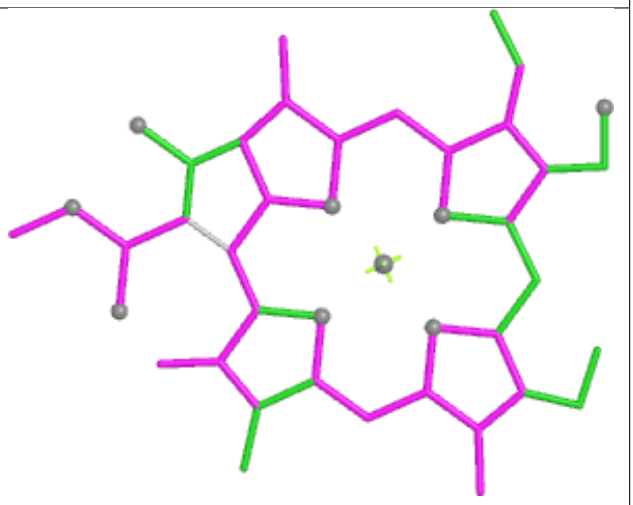


Rings

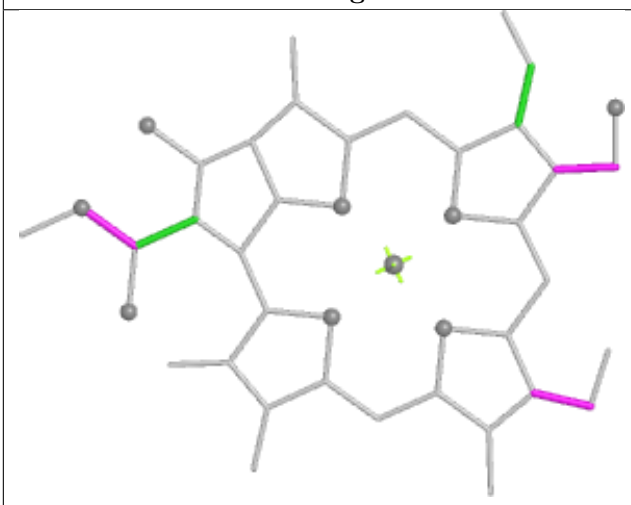
Ligand CHL 03 311



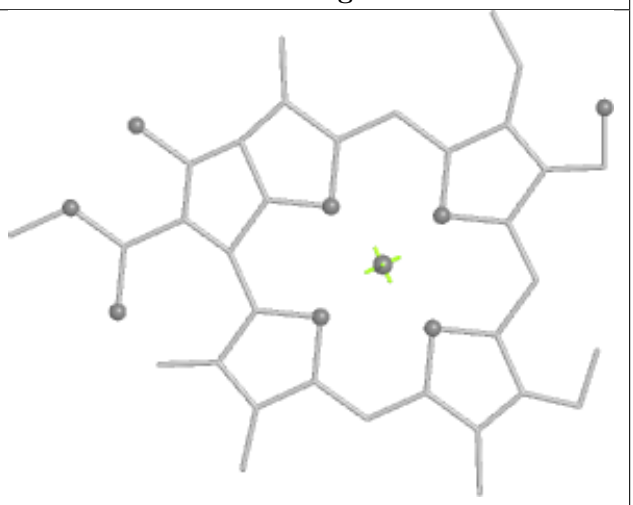
Bond lengths



Bond angles

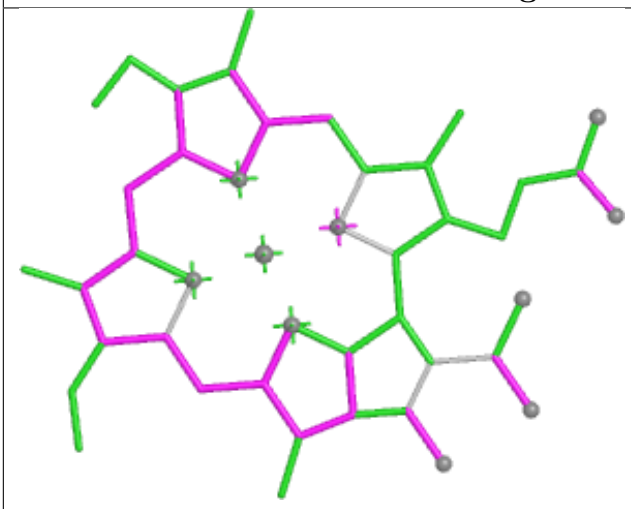


Torsions

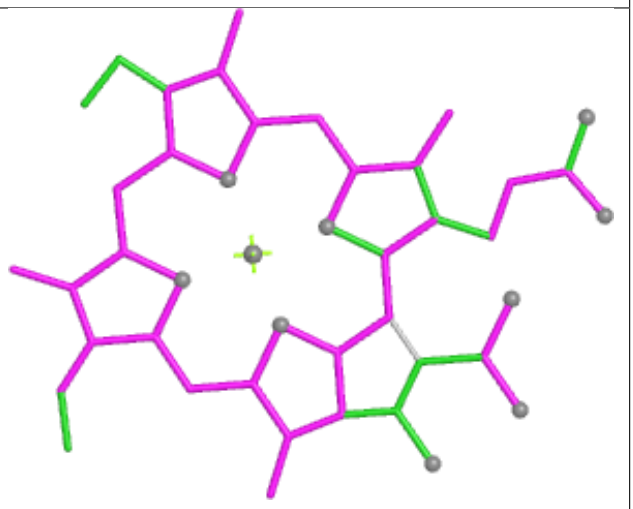


Rings

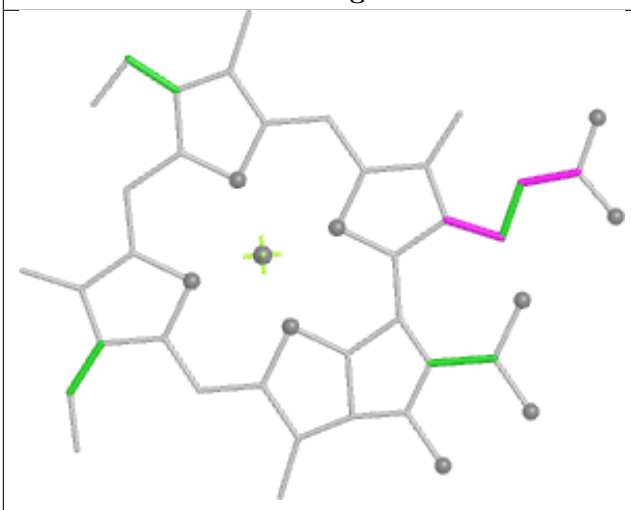
Ligand CLA 04 309



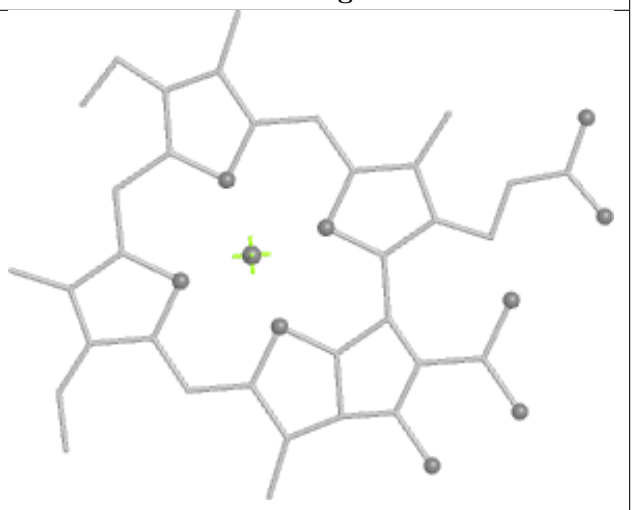
Bond lengths



Bond angles

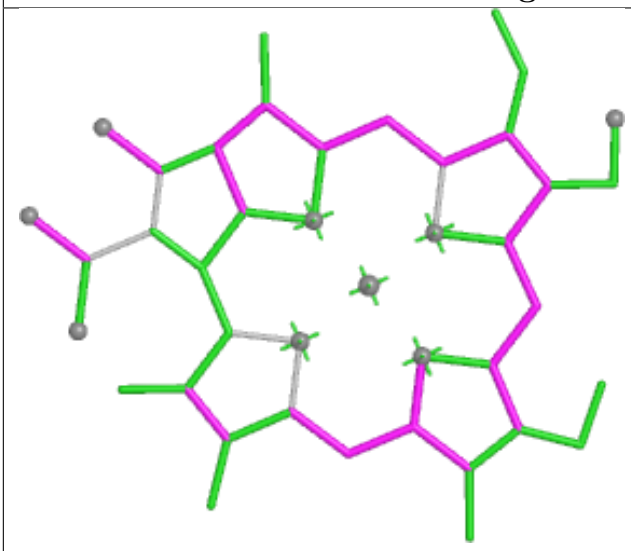


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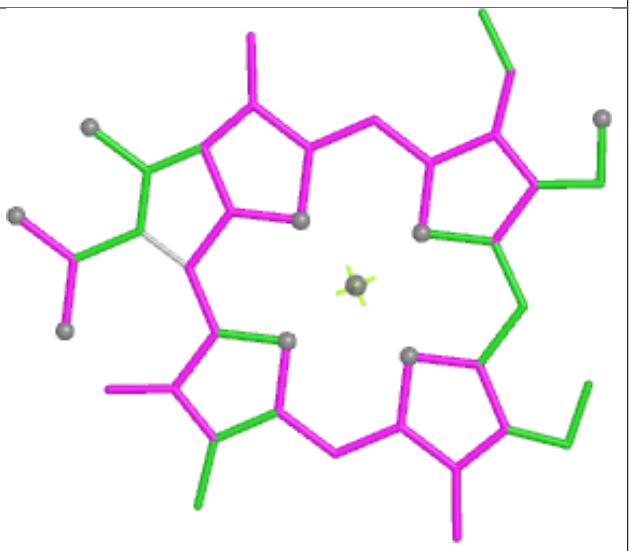


Rings

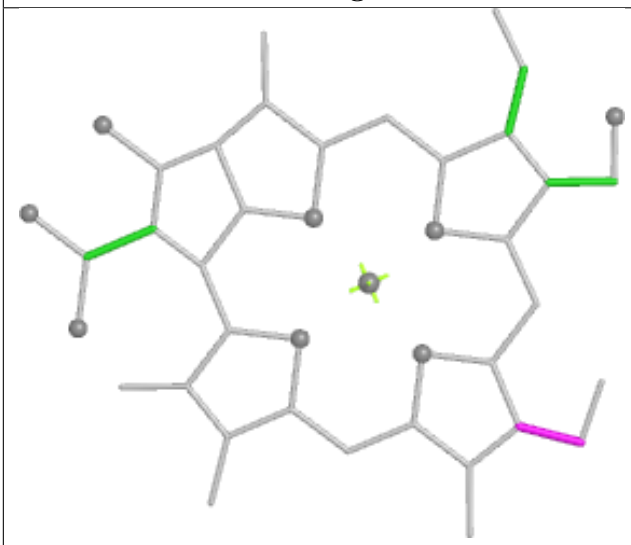
Ligand CHL 08 302



Bond lengths



Bond angles

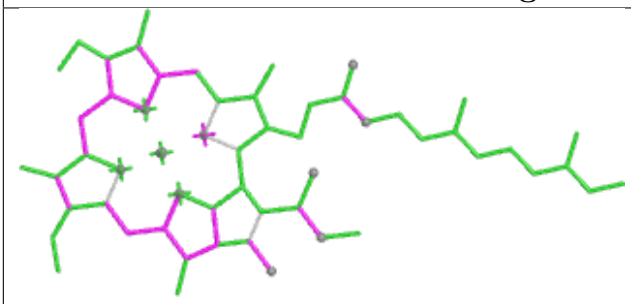


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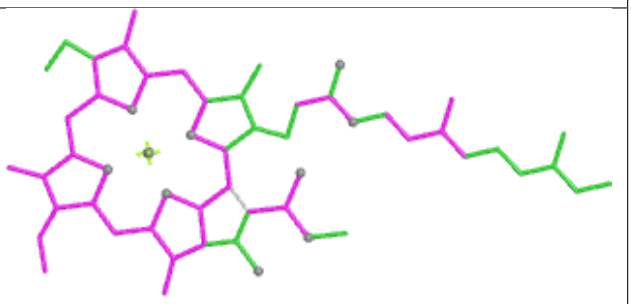


Rings

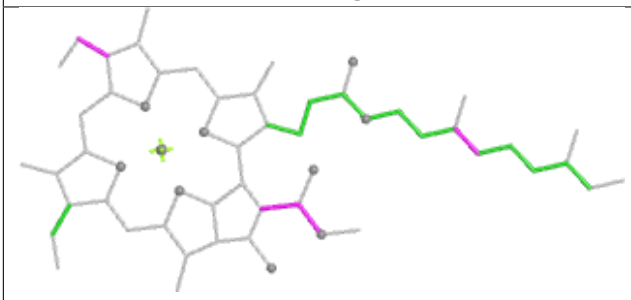
Ligand CLA 09 302



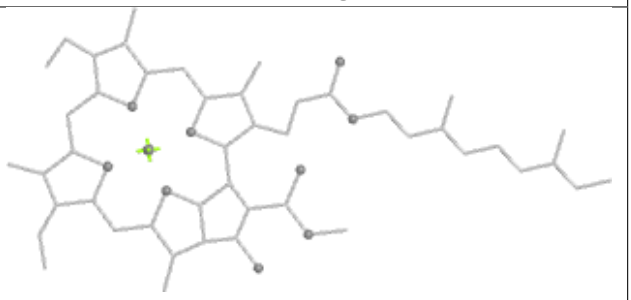
Bond lengths



Bond angles

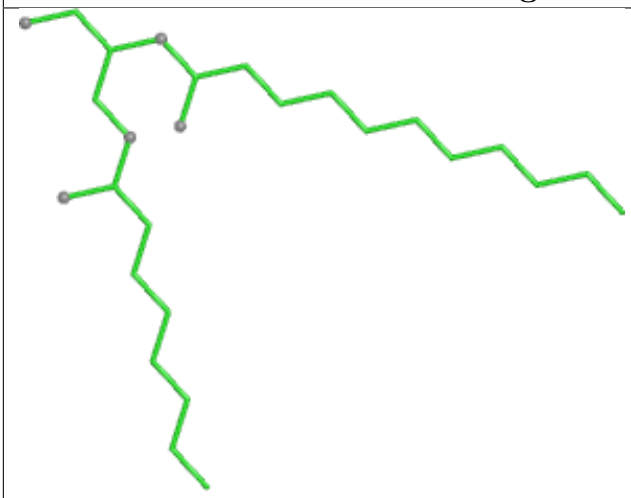


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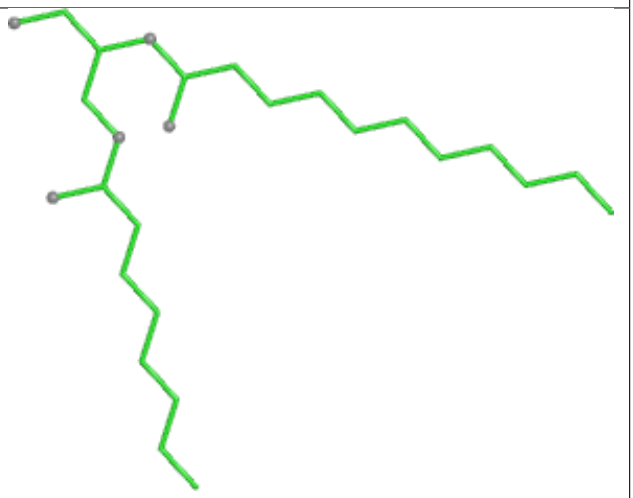


Rings

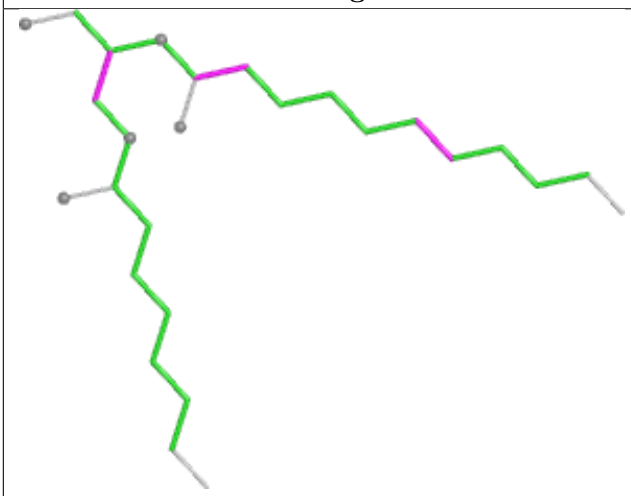
Ligand LHG 1s 319



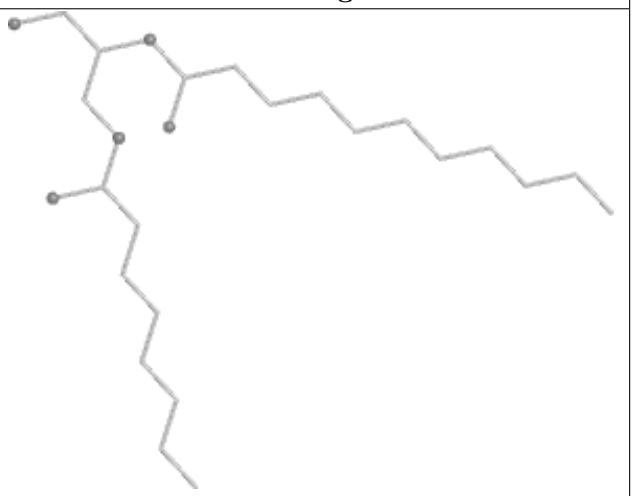
Bond lengths



Bond angles

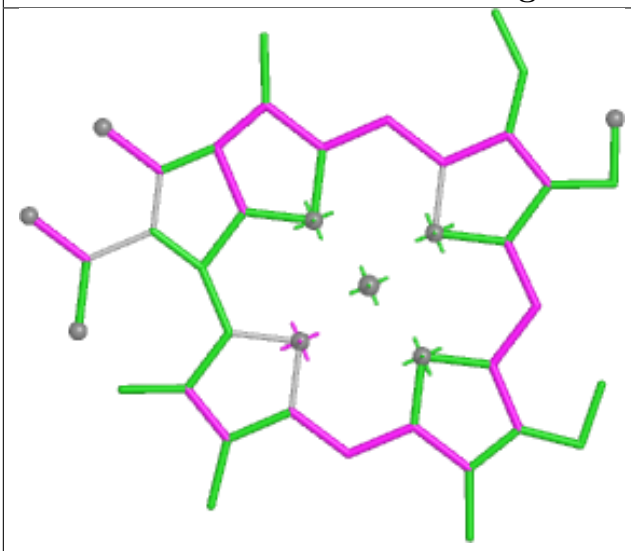


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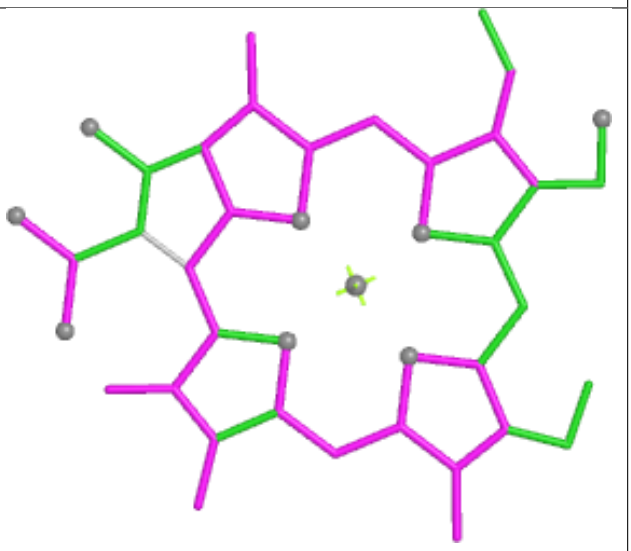


Rings

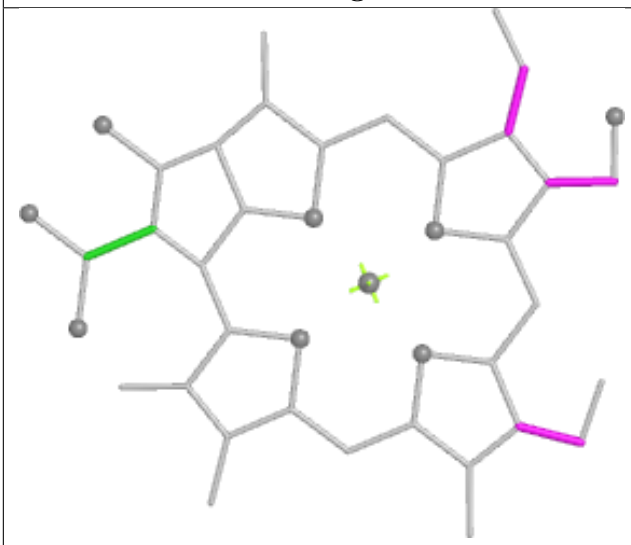
Ligand CHL 08 304



Bond lengths



Bond angles

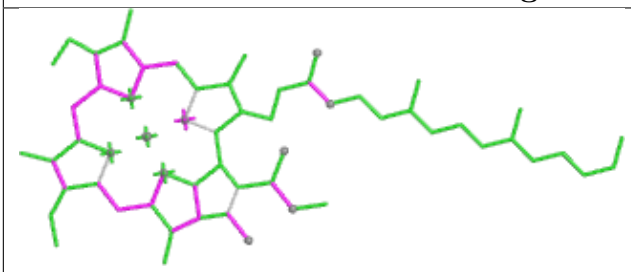


Torsions

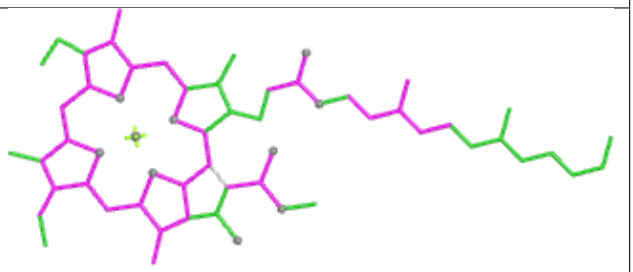


Rings

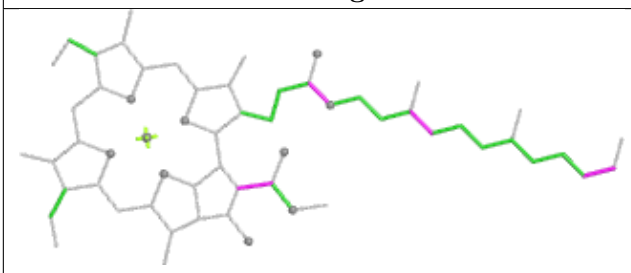
Ligand CLA 1c 510



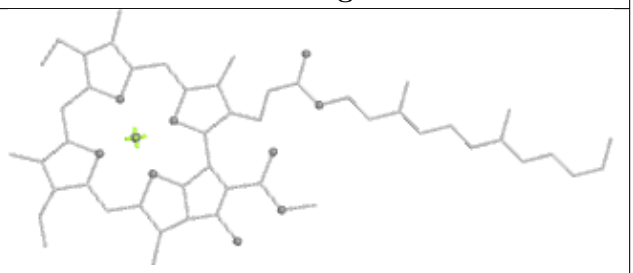
Bond lengths



Bond angles

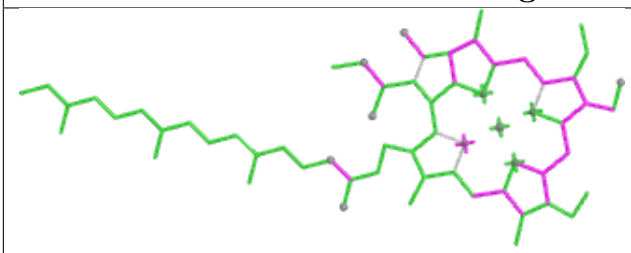


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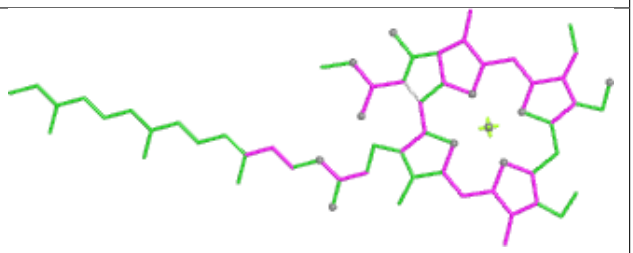


Rings

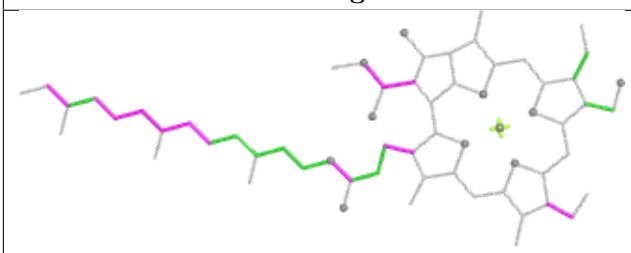
Ligand CHL 01 306



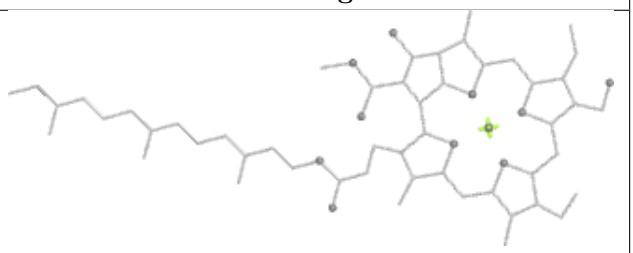
Bond lengths



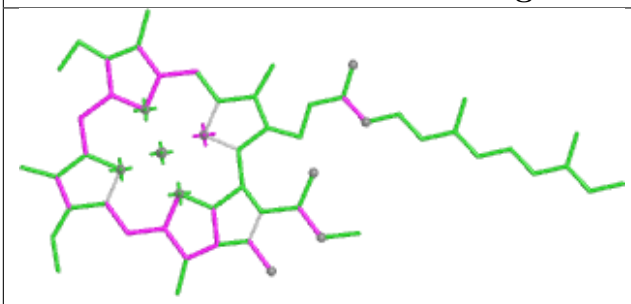
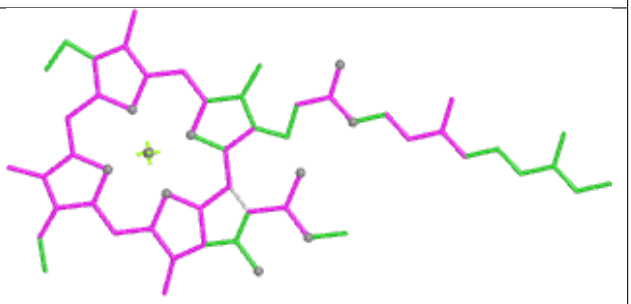
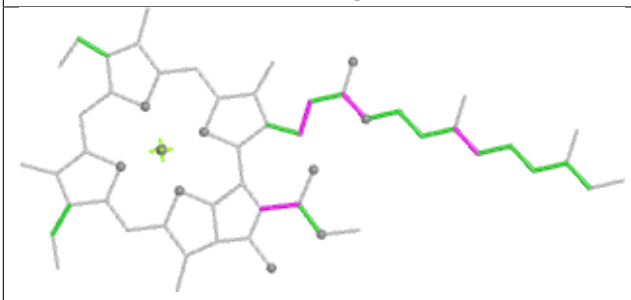
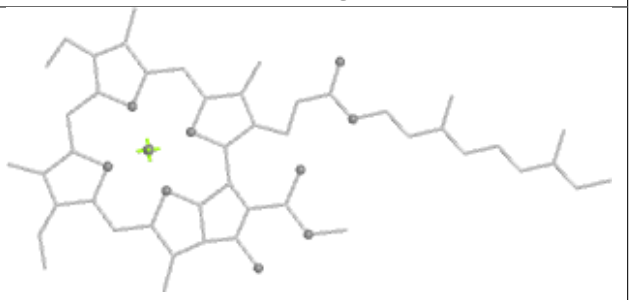
Bond angles

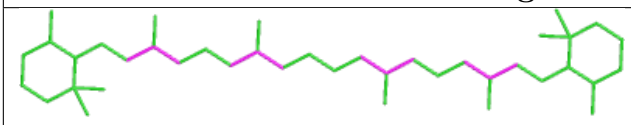
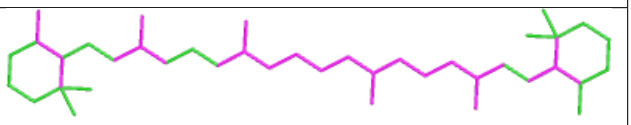
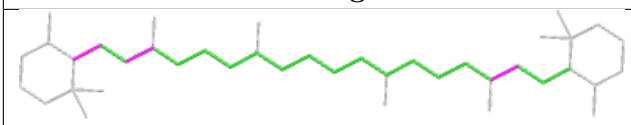
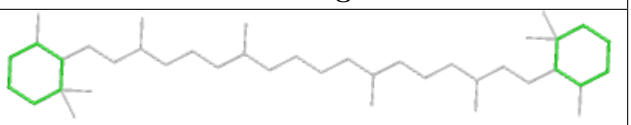


Torsions

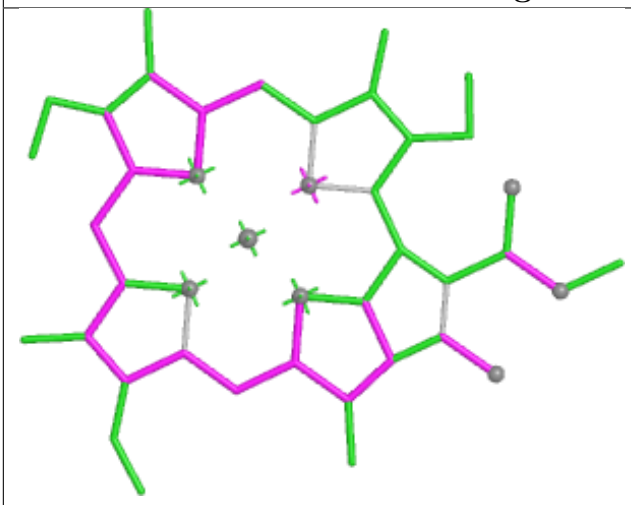


Rings

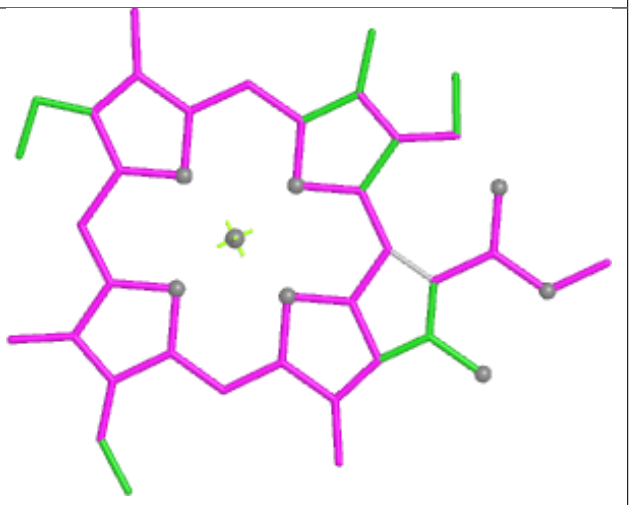
Ligand CLA 1B 604	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand BCR 1J 101	
	
Bond lengths	Bond angles
	
Torsions	Rings

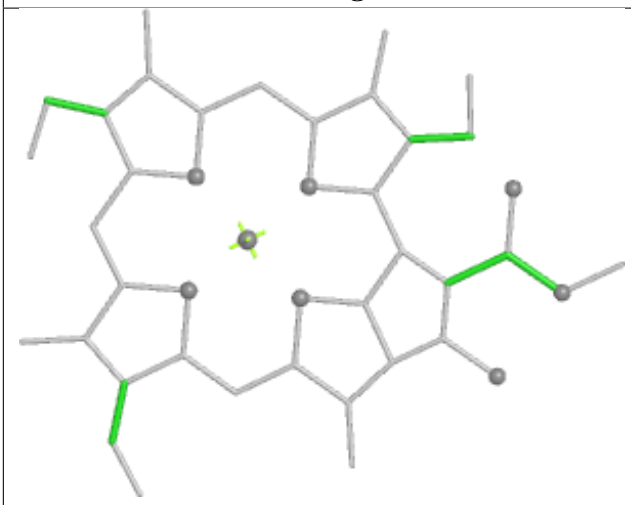
Ligand CLA 1G 614



Bond lengths



Bond angles

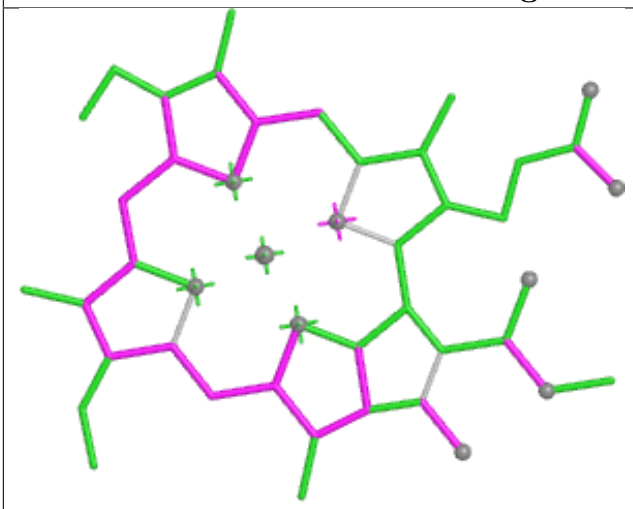


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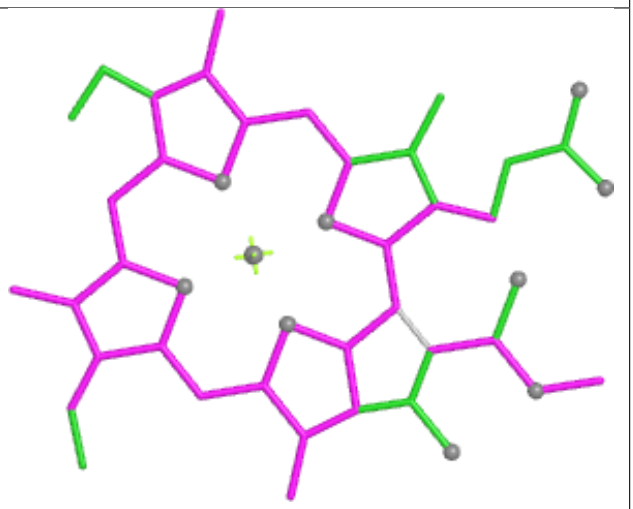


Rings

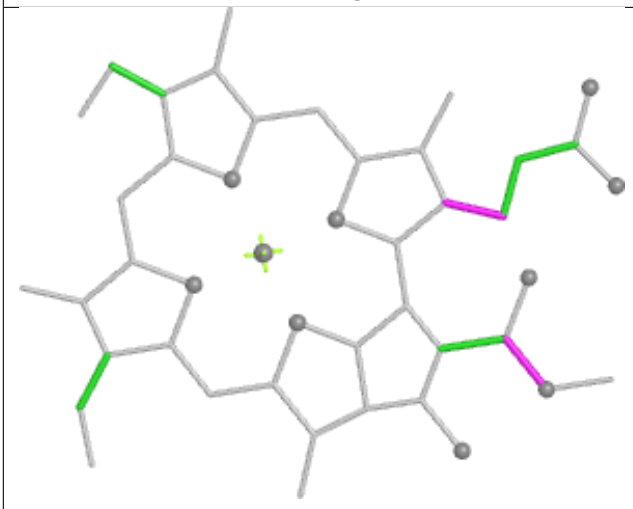
Ligand CLA 1c 513



Bond lengths



Bond angles

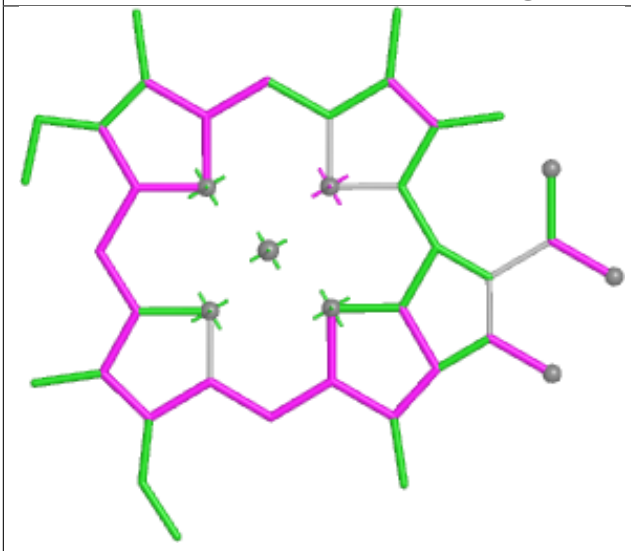


Torsions

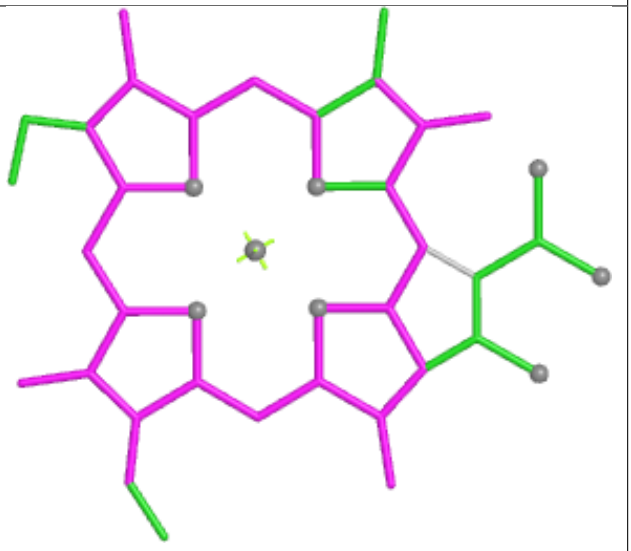


Rings

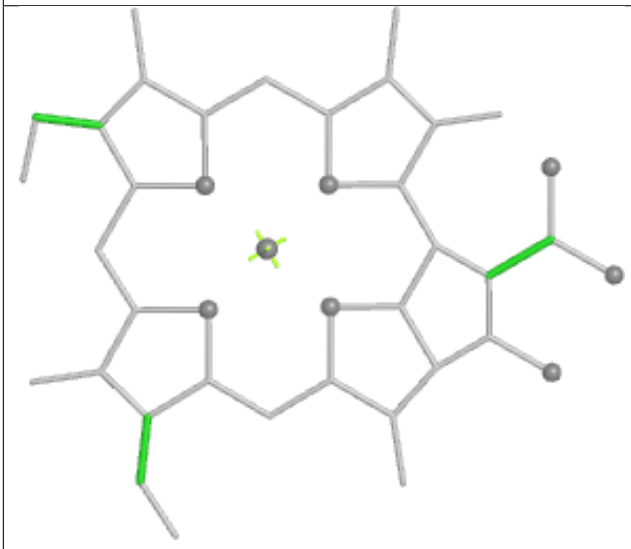
Ligand CLA 06 611



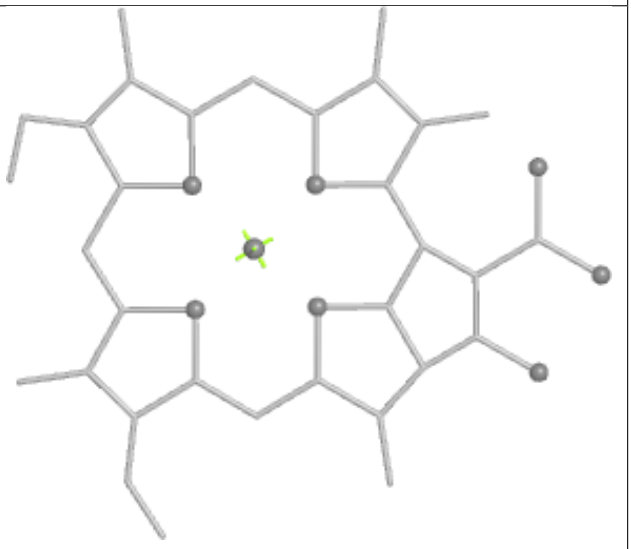
Bond lengths



Bond angles

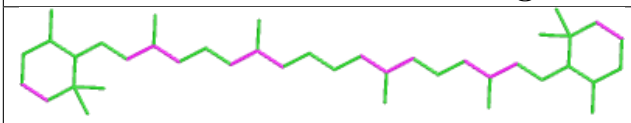


Torsions

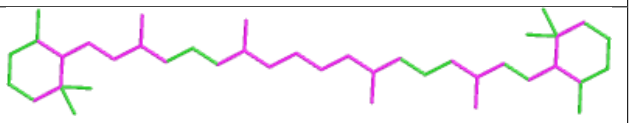


Rings

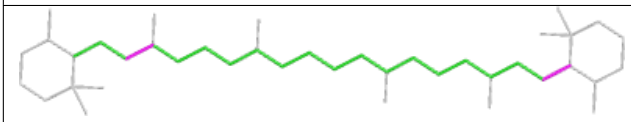
Ligand BCR 1h 101



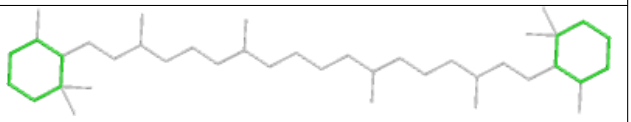
Bond lengths



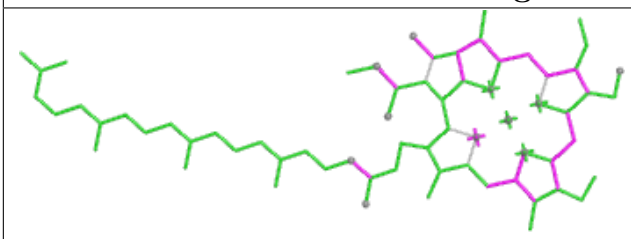
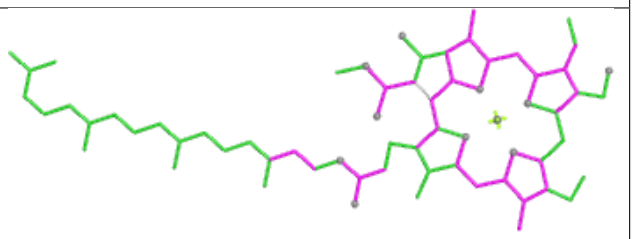
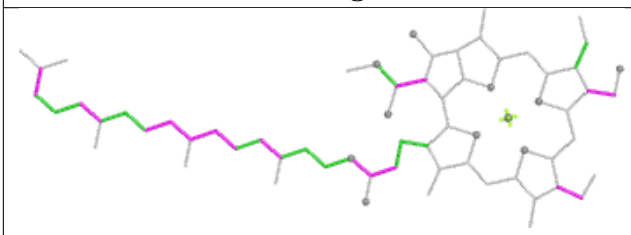
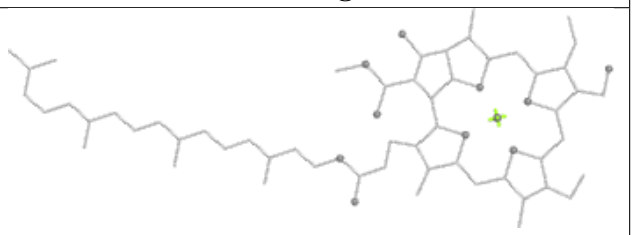
Bond angles

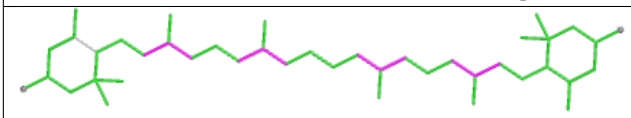
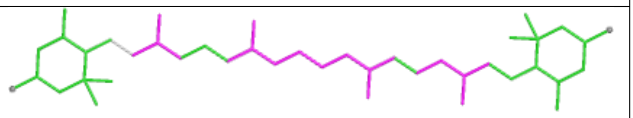
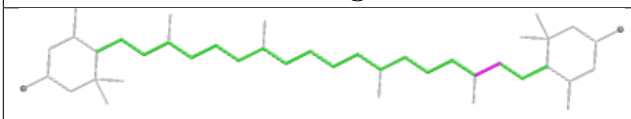
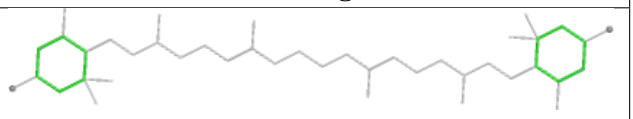


Torsions

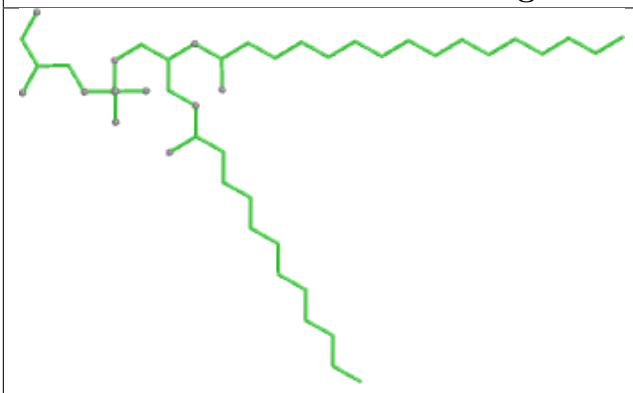


Rings

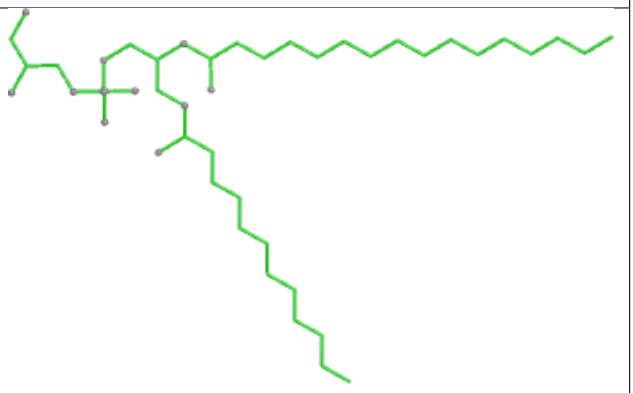
Ligand CHL 1G 601	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand LUT 1G 615	
	
Bond lengths	Bond angles
	
Torsions	Rings

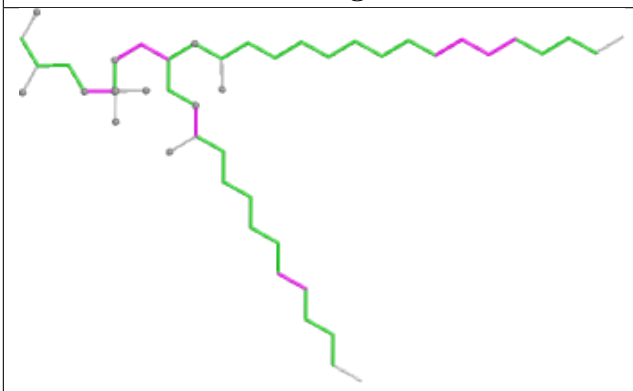
Ligand LHG 03 314



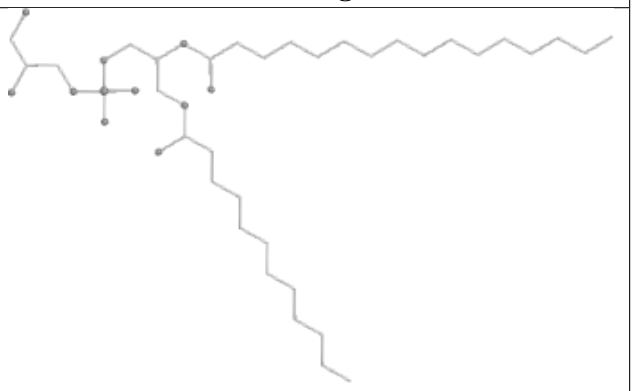
Bond lengths



Bond angles

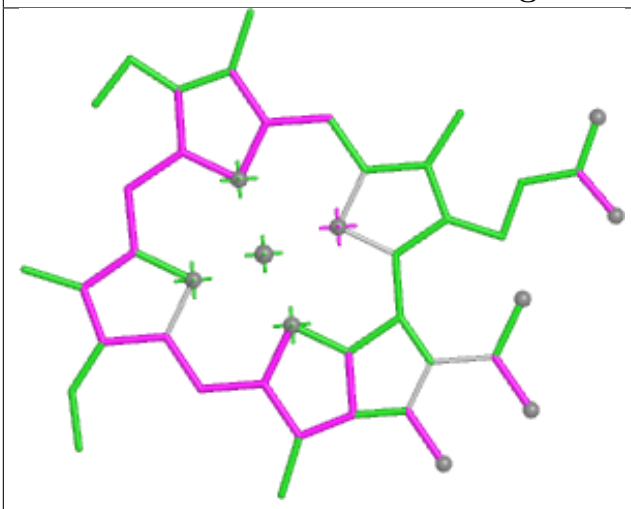


Torsions

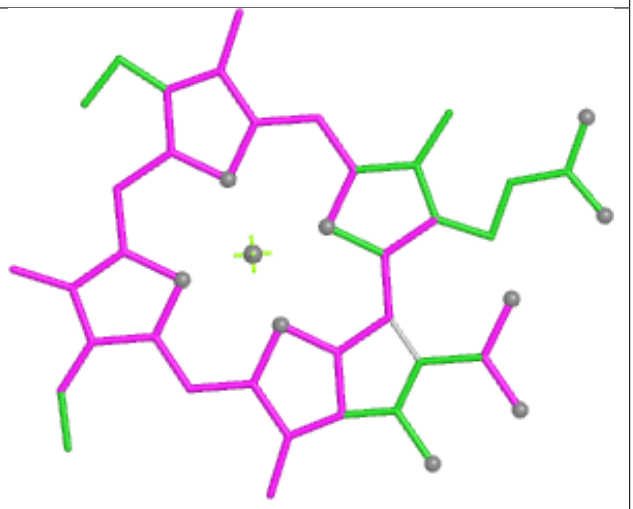


Rings

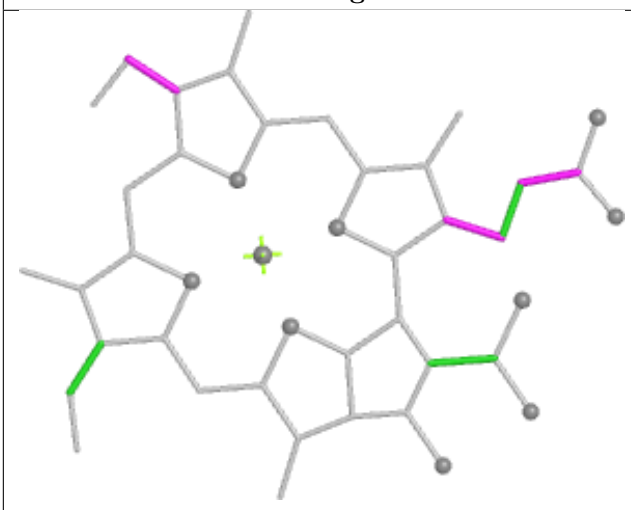
Ligand CLA 09 312



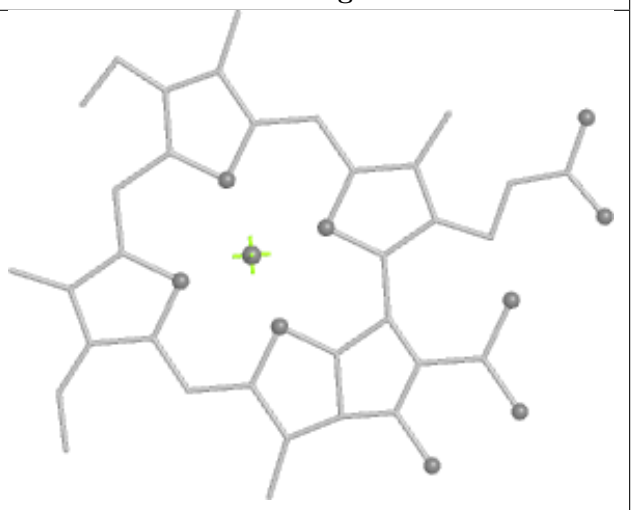
Bond lengths



Bond angles

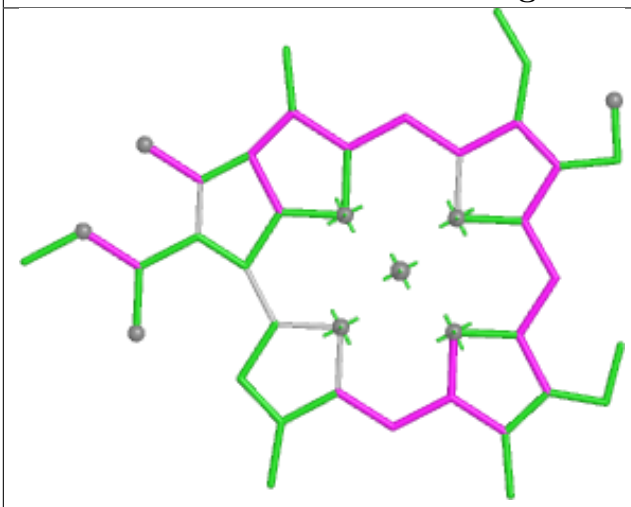


Torsions

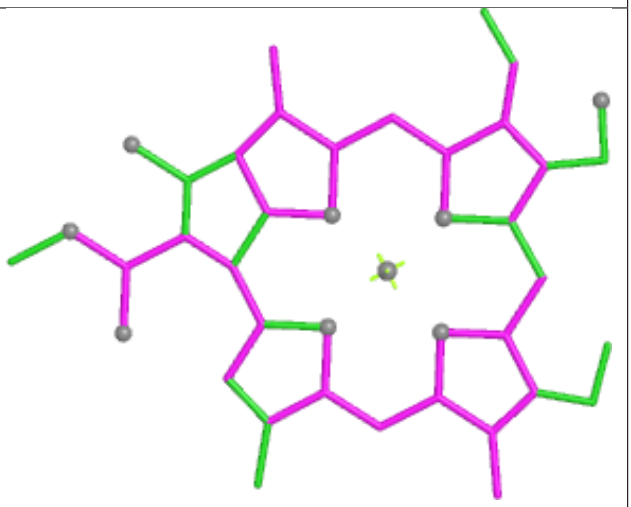


Rings

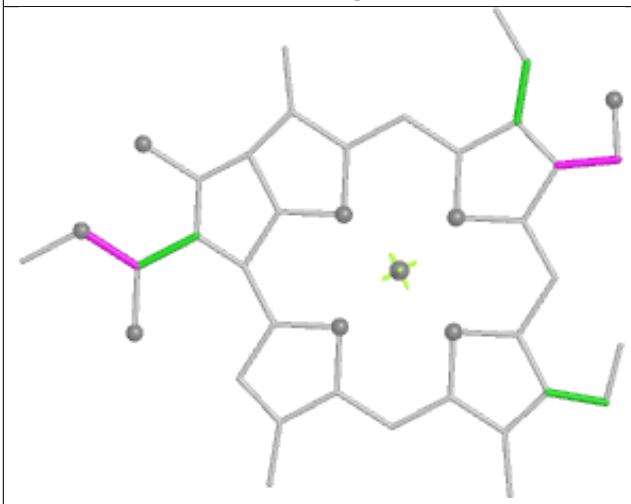
Ligand CHL 04 302



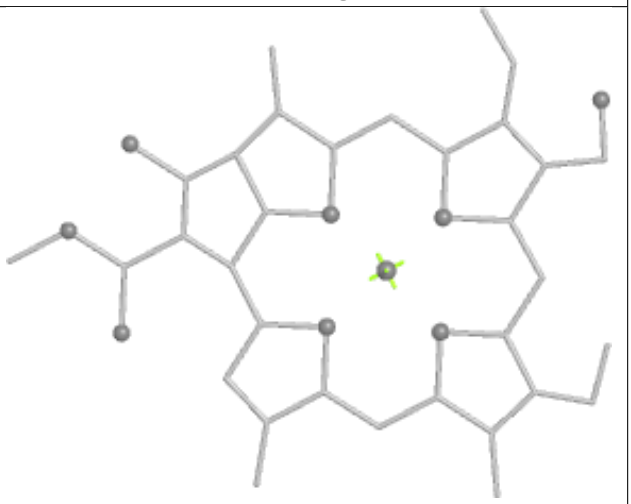
Bond lengths



Bond angles

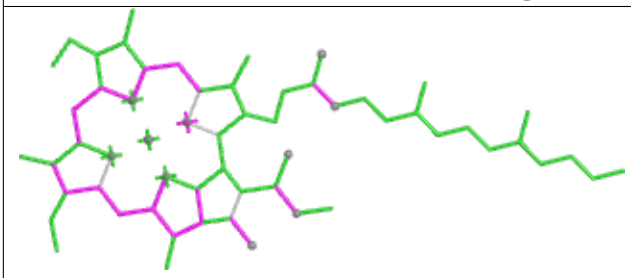


Torsions

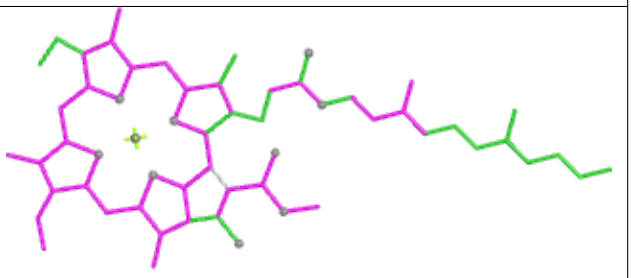


Rings

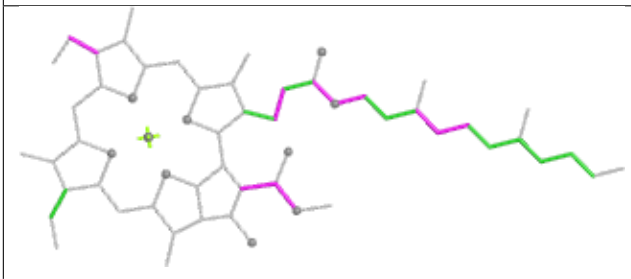
Ligand CLA 1n 610



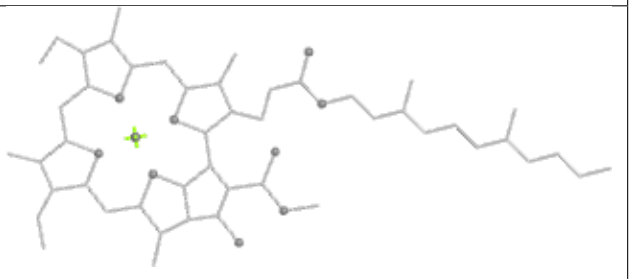
Bond lengths



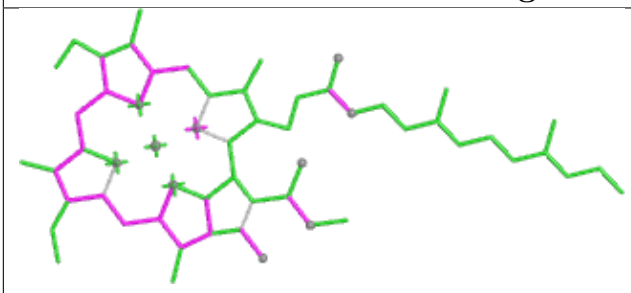
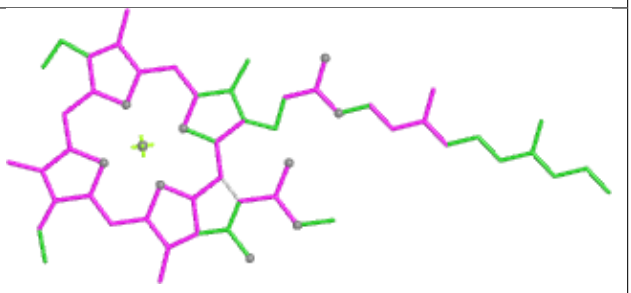
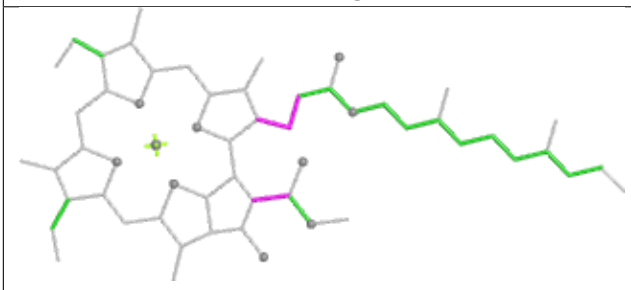
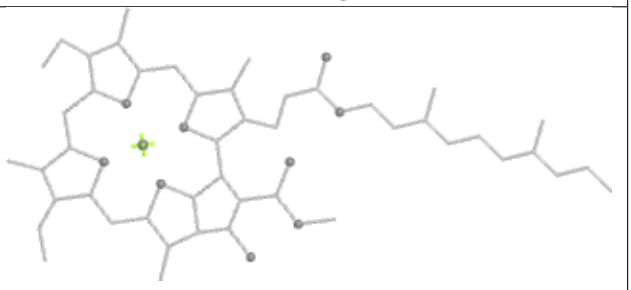
Bond angles

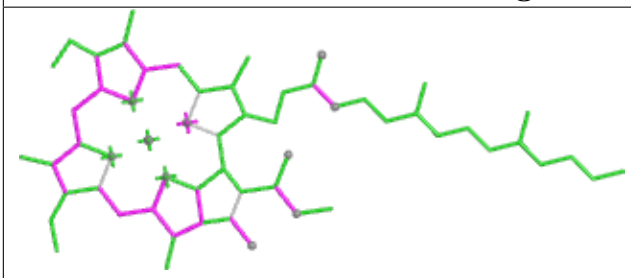
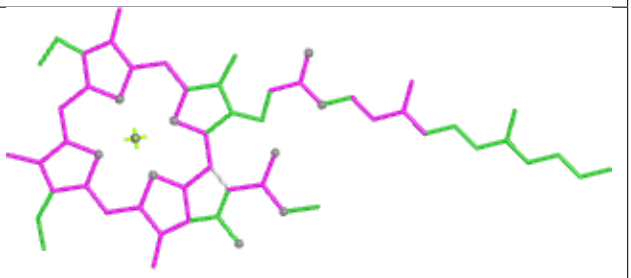
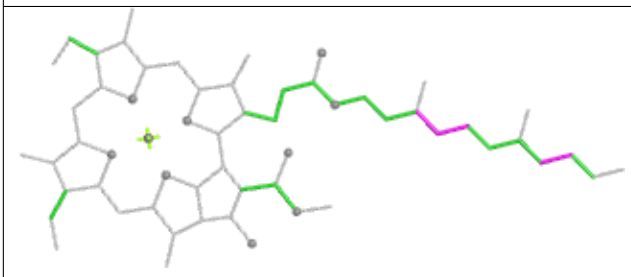
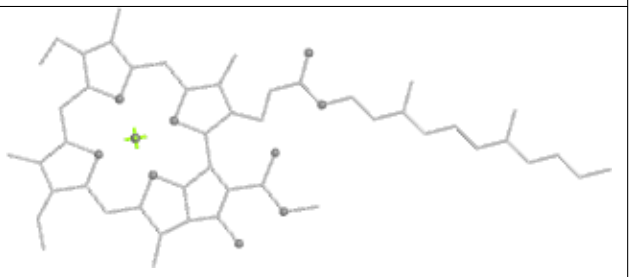


Torsions

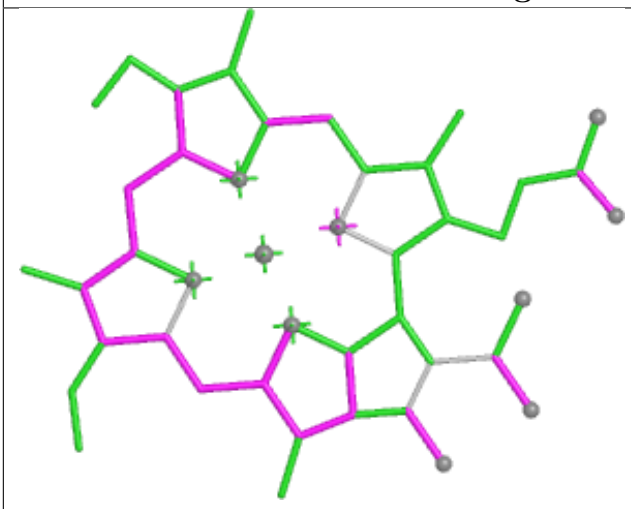


Rings

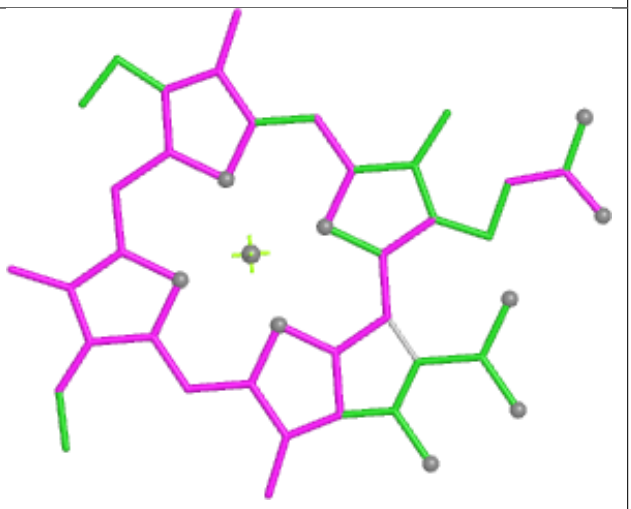
Ligand CLA 1n 611	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA 1B 613	
	
Bond lengths	Bond angles
	
Torsions	Rings

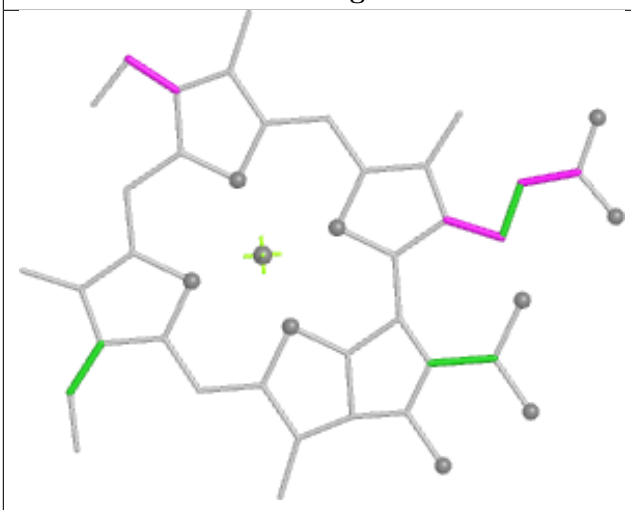
Ligand CLA 1G 610



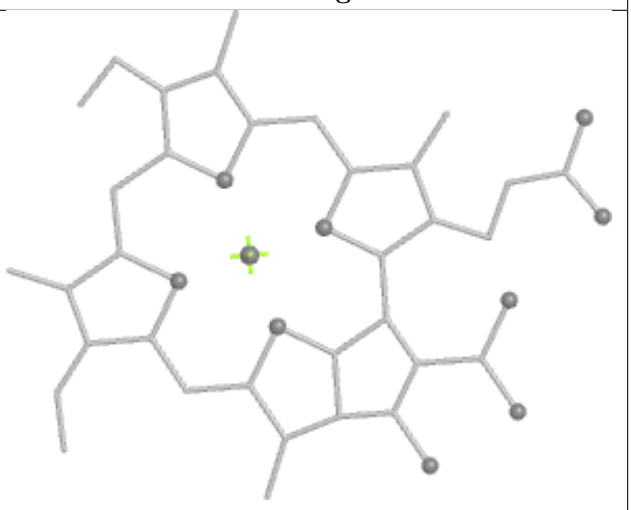
Bond lengths



Bond angles

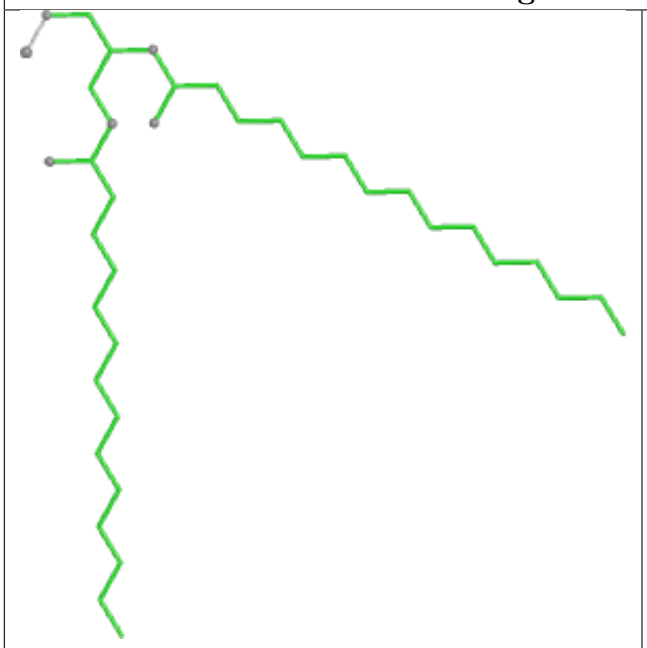


Torsions

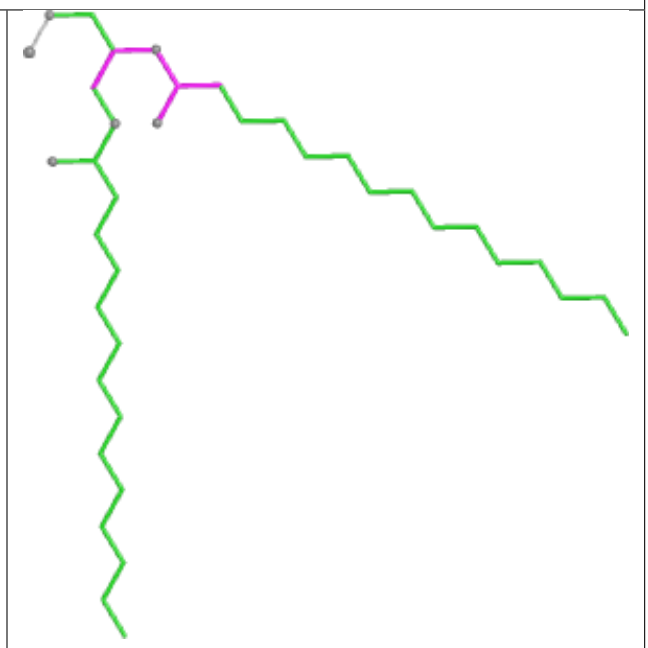


Rings

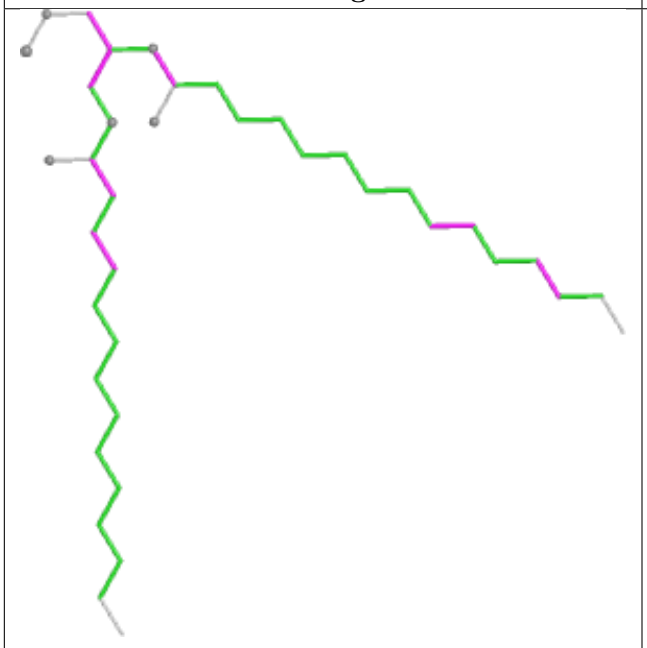
Ligand LHG 1n 617



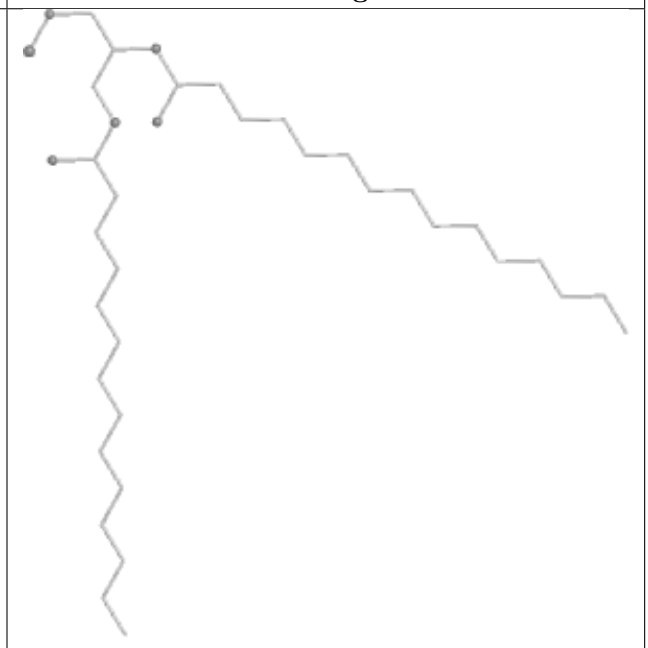
Bond lengths



Bond angles

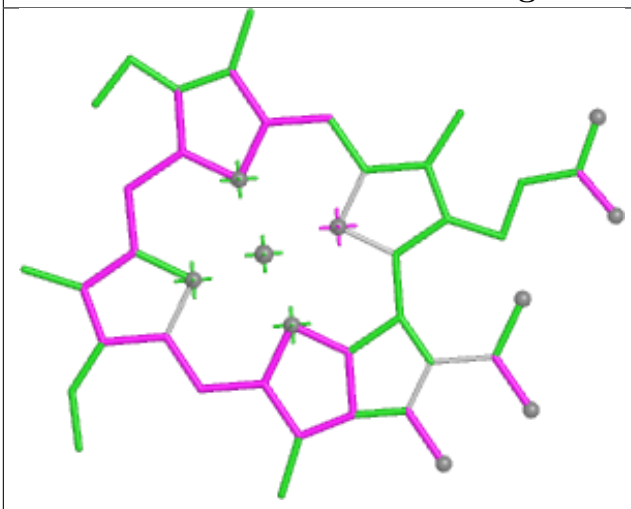


Torsions

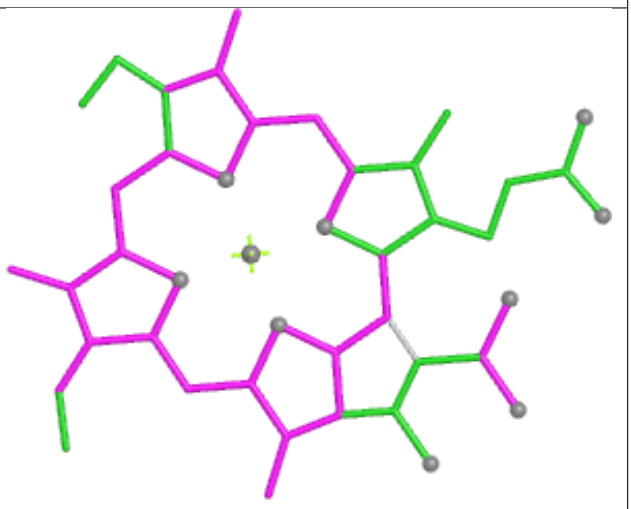


Rings

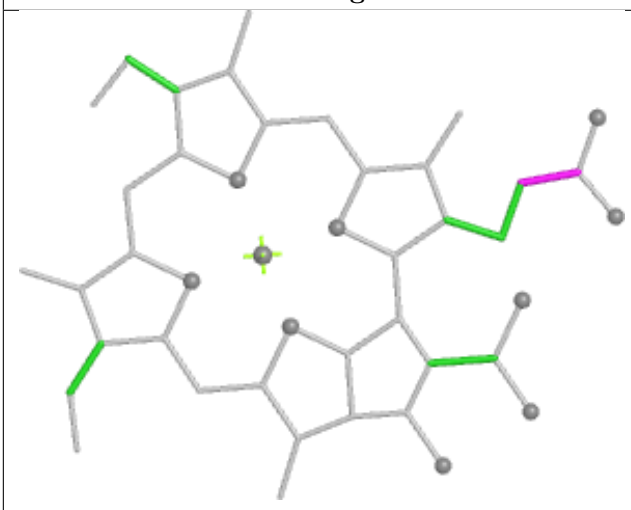
Ligand CLA 1S 315



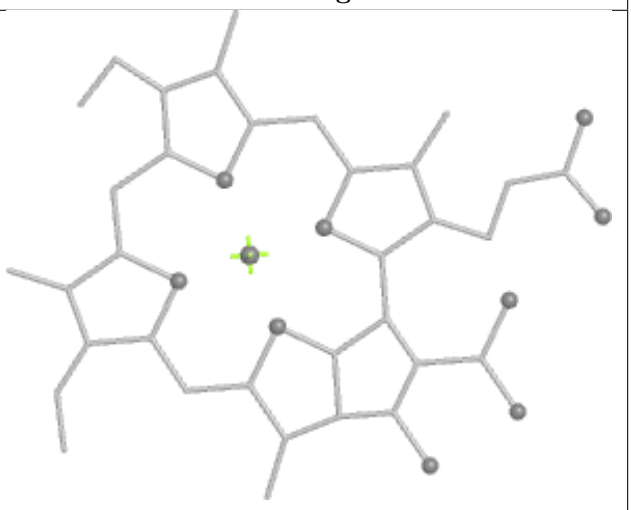
Bond lengths



Bond angles

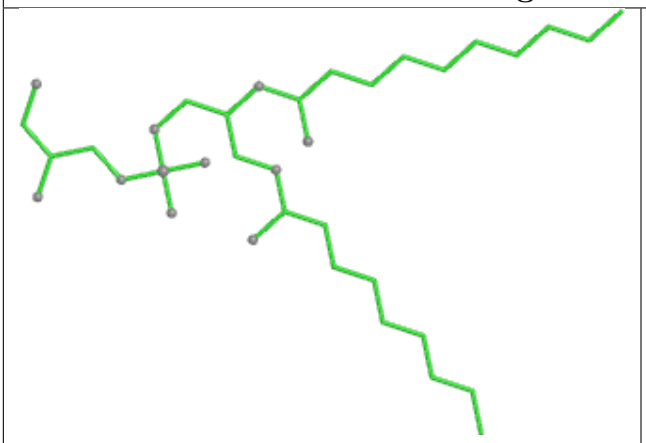


Torsions

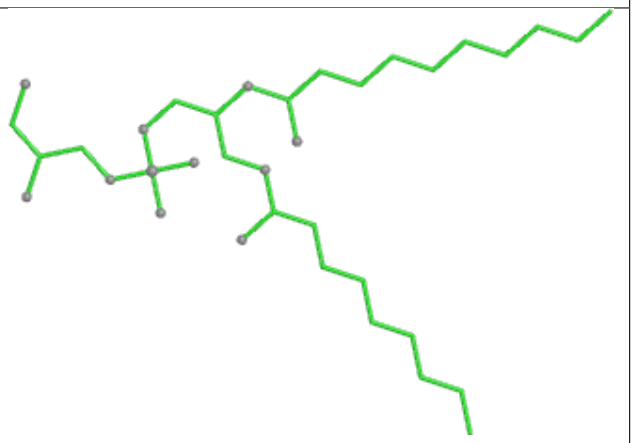


Rings

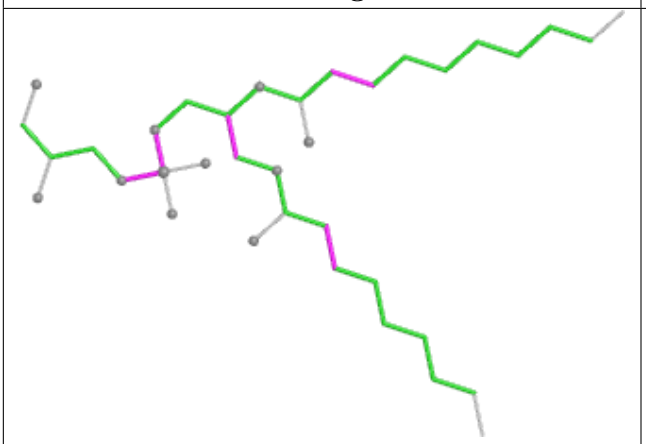
Ligand LHG 1b 624



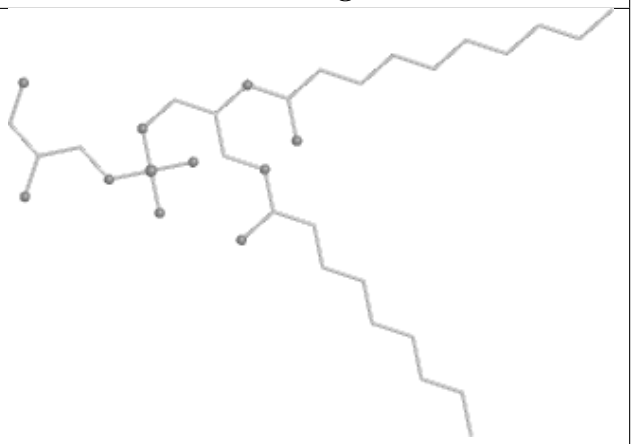
Bond lengths



Bond angles



Torsions

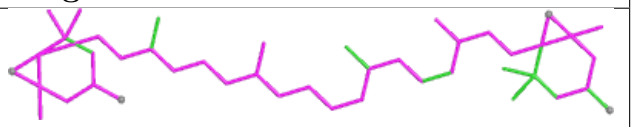


Rings

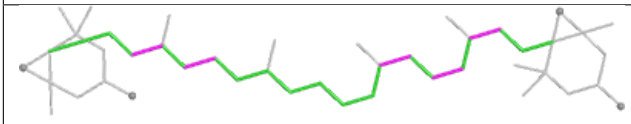
Ligand XAT 1g 619



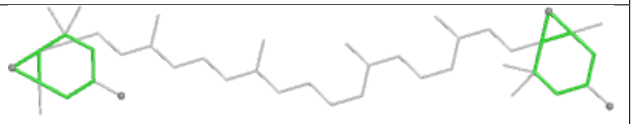
Bond lengths



Bond angles

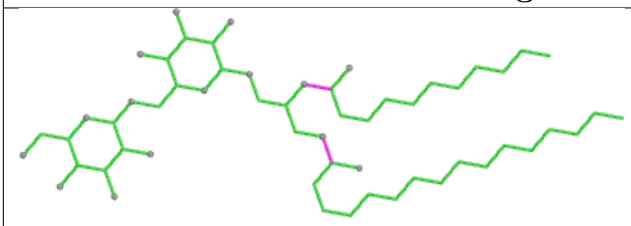


Torsions

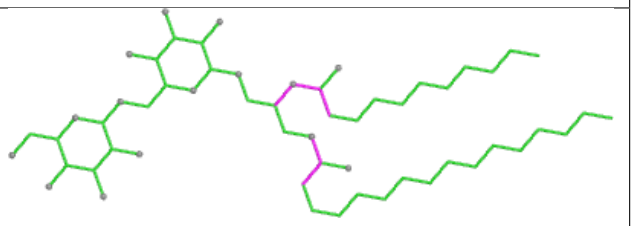


Rings

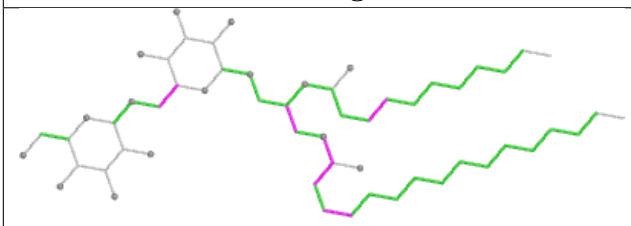
Ligand DGD 1c 520



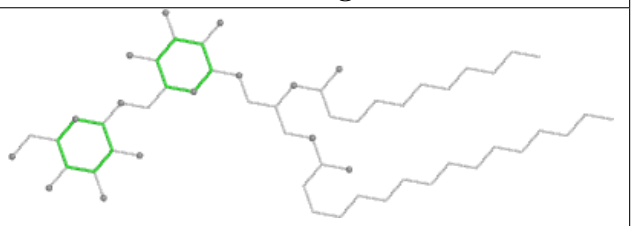
Bond lengths



Bond angles

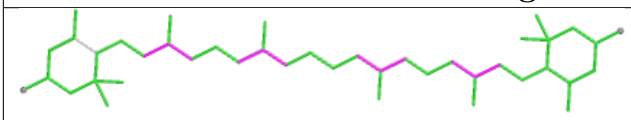


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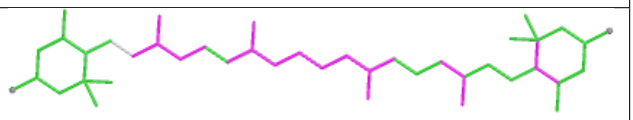


Rings

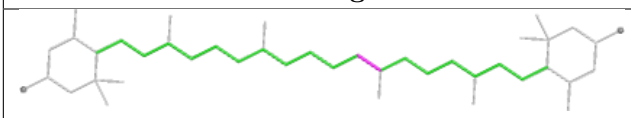
Ligand LUT 1n 615



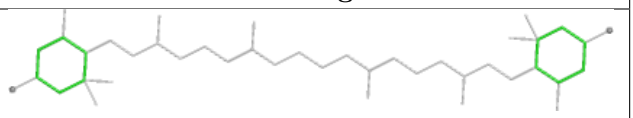
Bond lengths



Bond angles

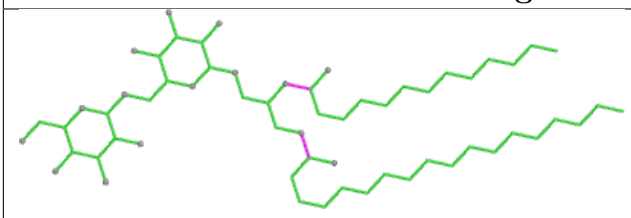


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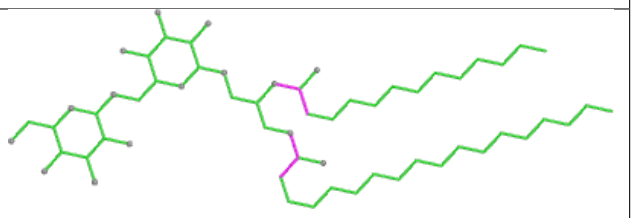


Rings

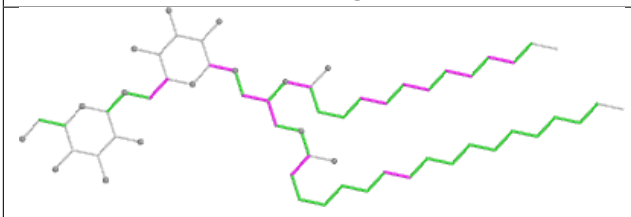
Ligand DGD 00 320



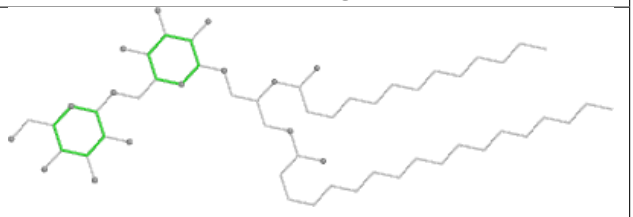
Bond lengths



Bond angles

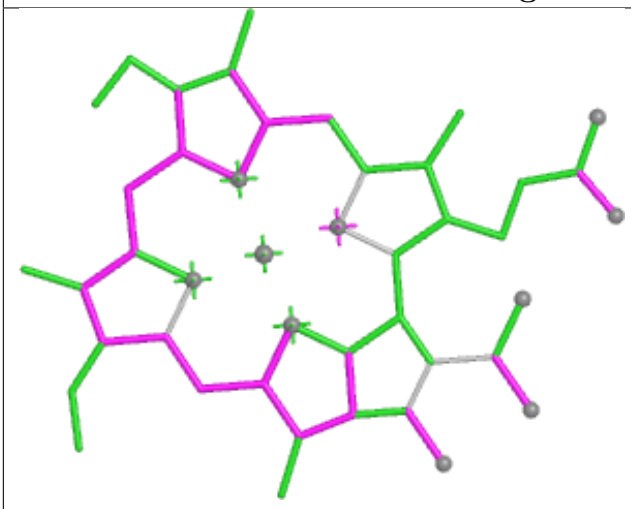


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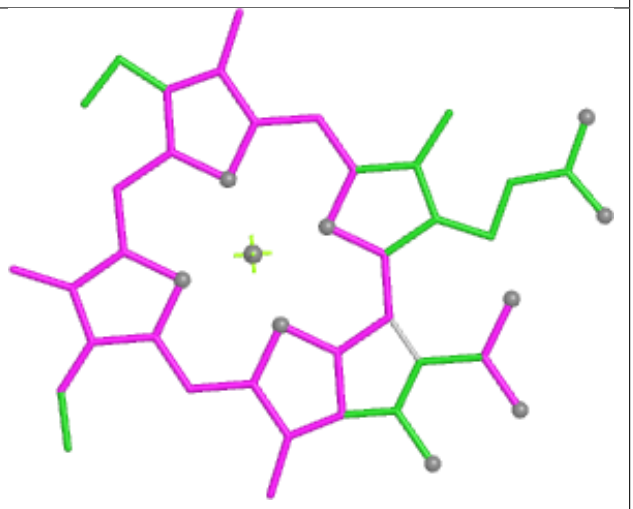


Rings

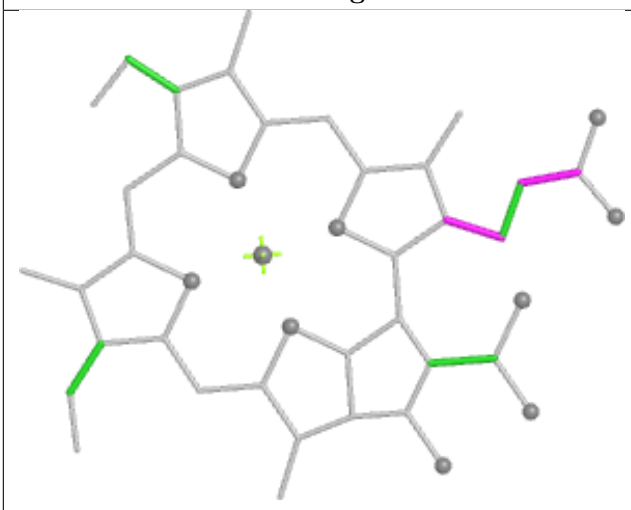
Ligand CLA 04 311



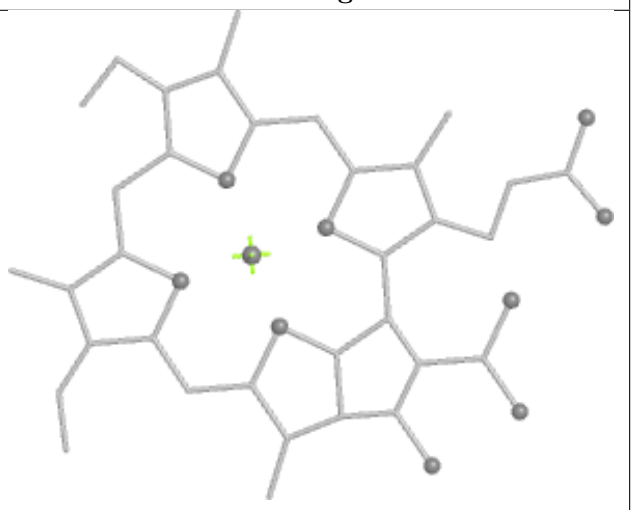
Bond lengths



Bond angles

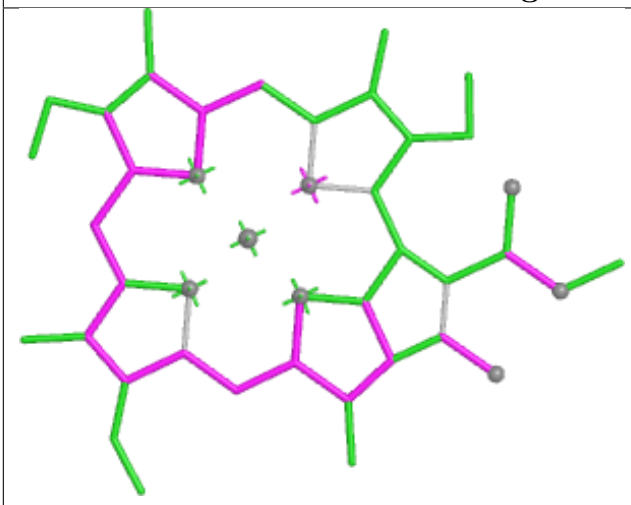


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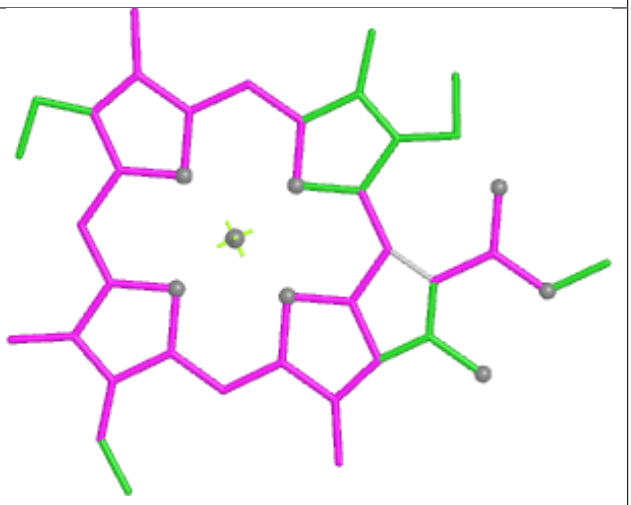


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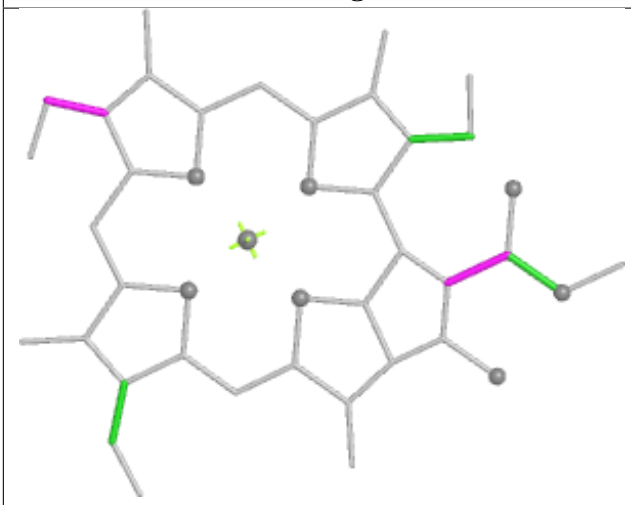
Ligand CLA 1r 310



Bond lengths



Bond angles

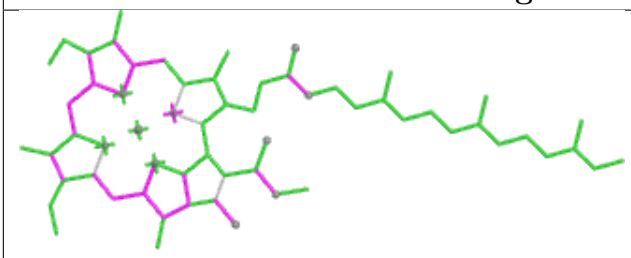


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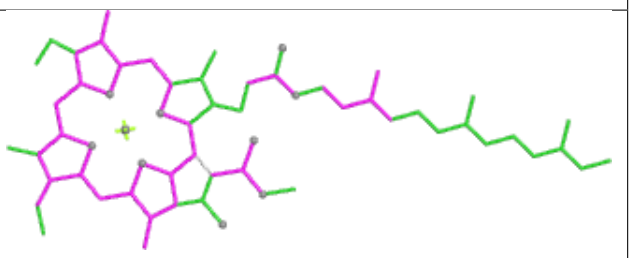


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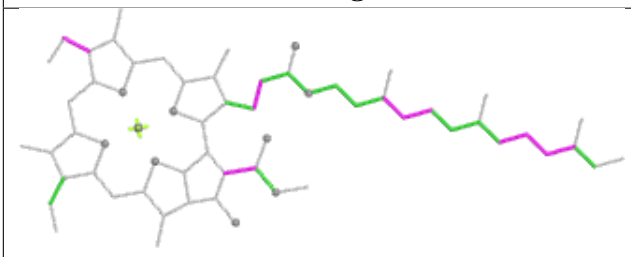
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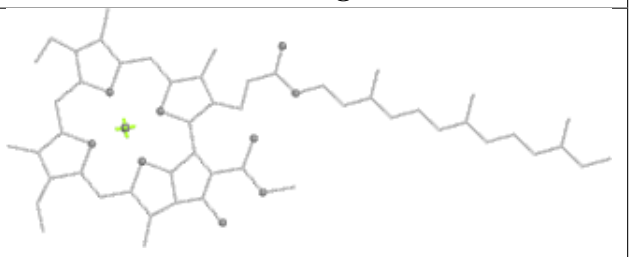
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Bond angles

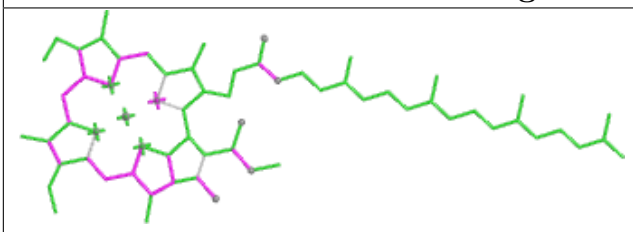


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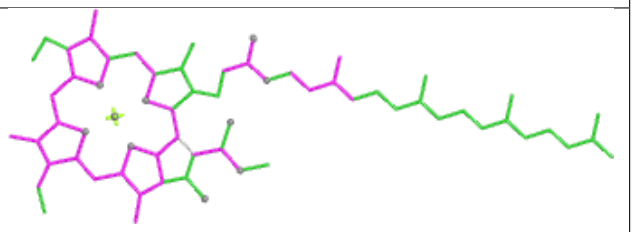


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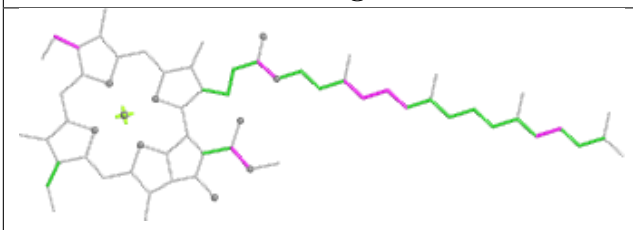
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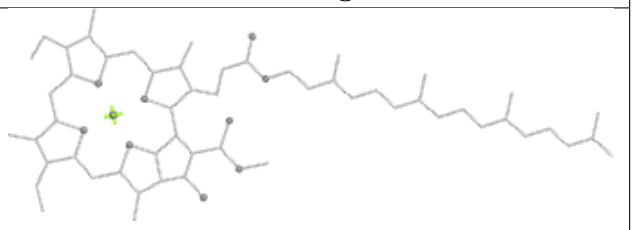
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Bond angles

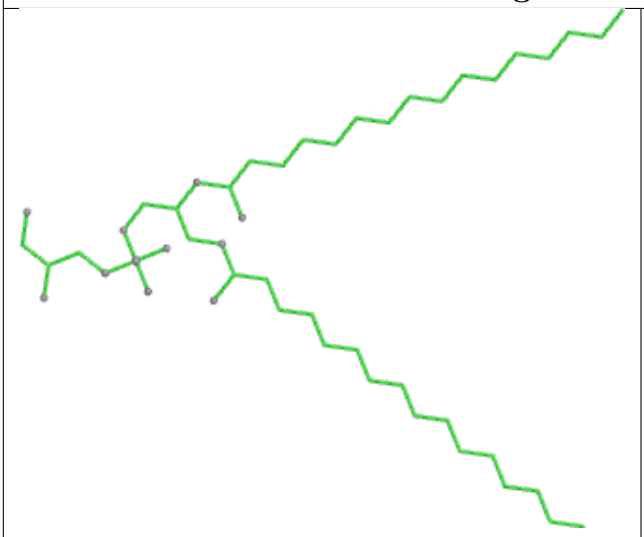


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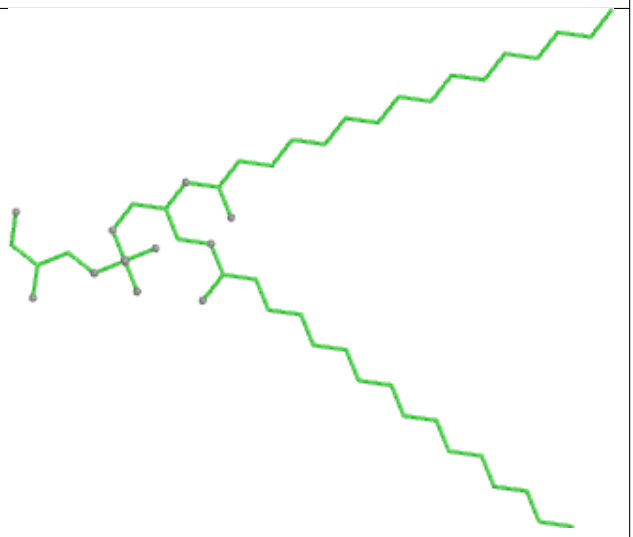


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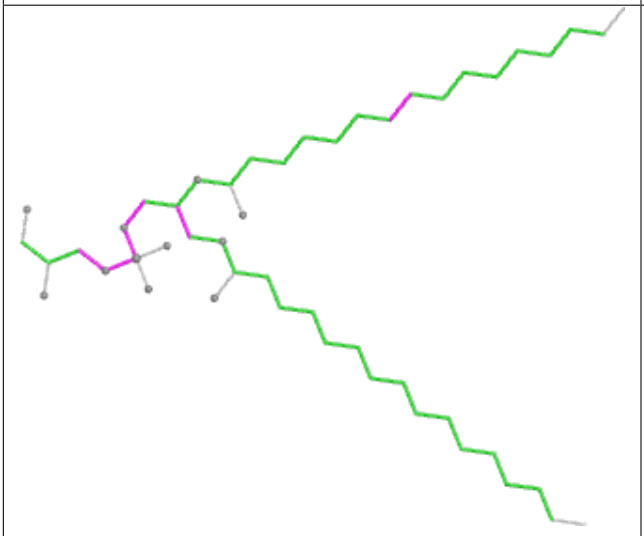
Ligand LHG 1V 201



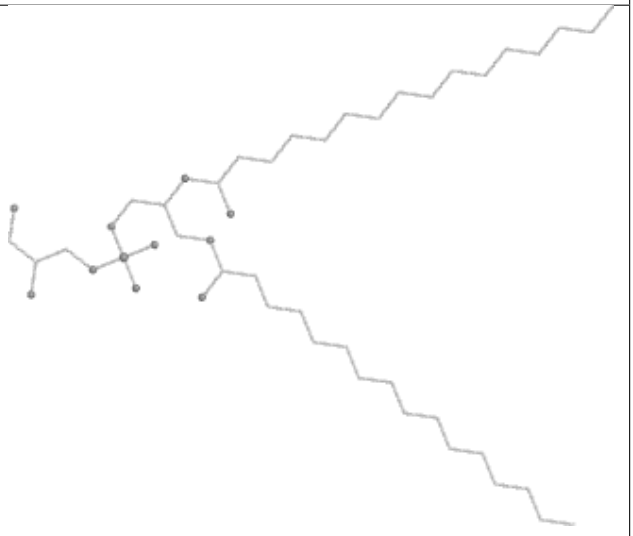
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Bond angles

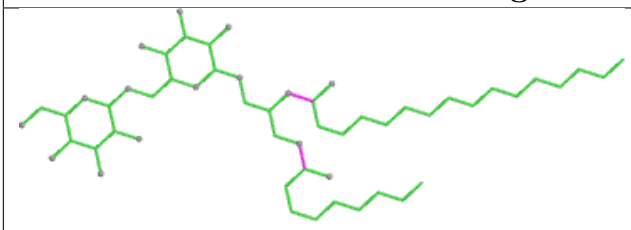


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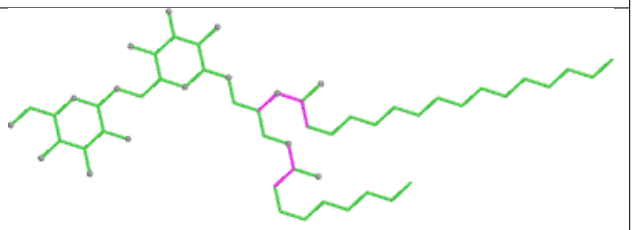


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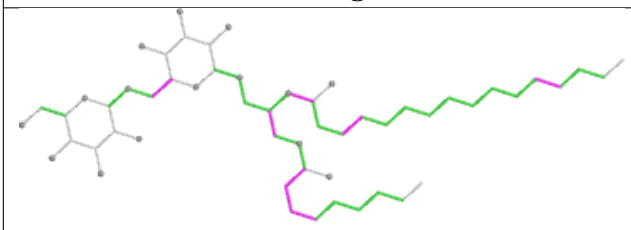
Ligand DGD 1A 414



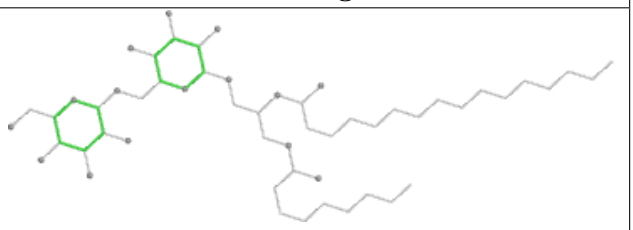
Bond lengths



Bond angles

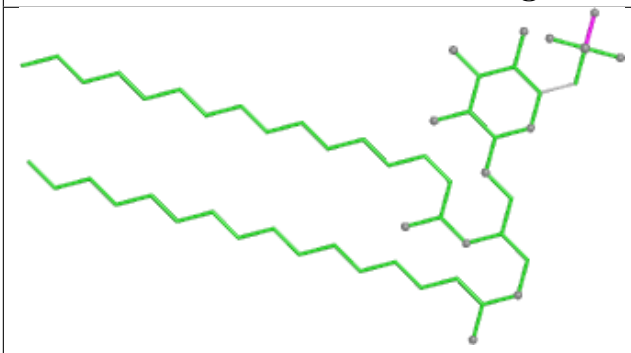


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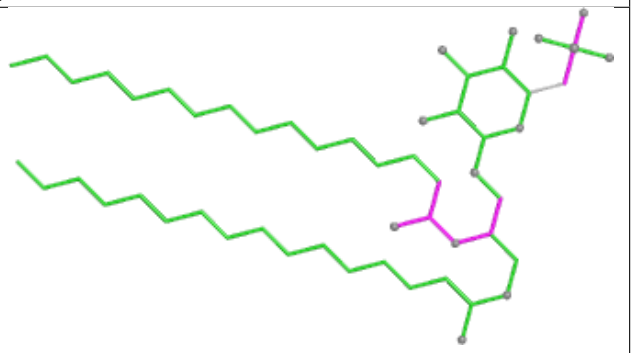


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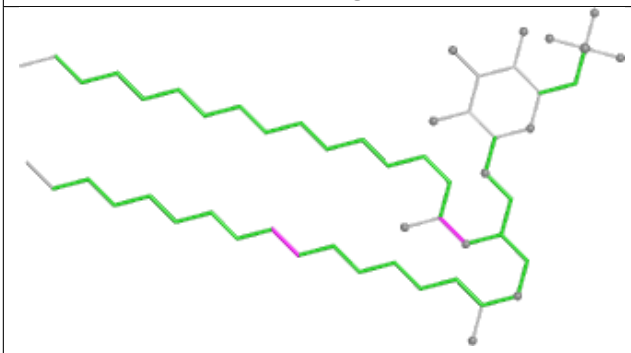
Ligand SQD 1c 517



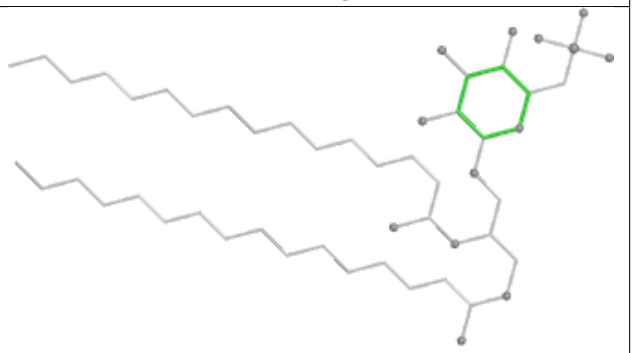
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Bond angles

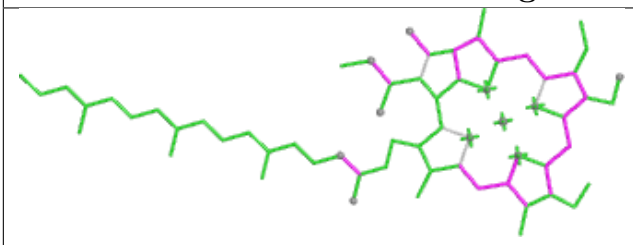


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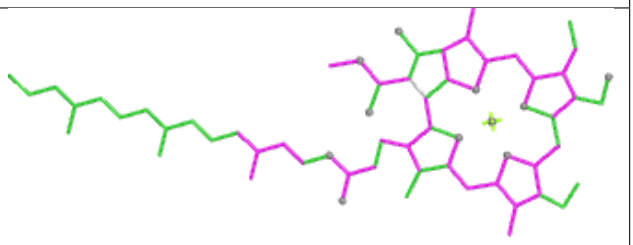


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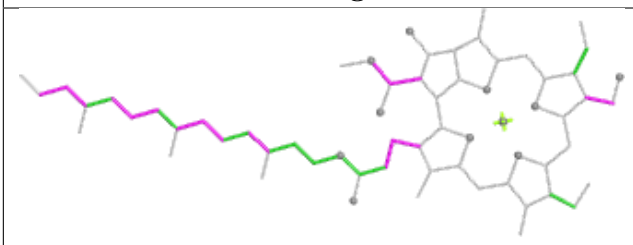
Ligand CHL 05 305



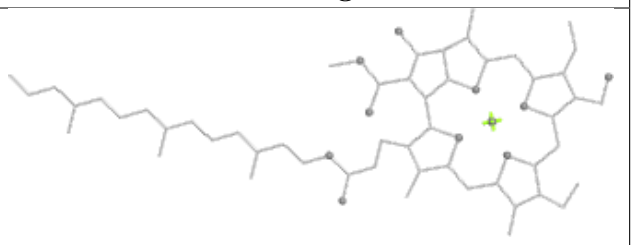
Bond lengths



Bond angles

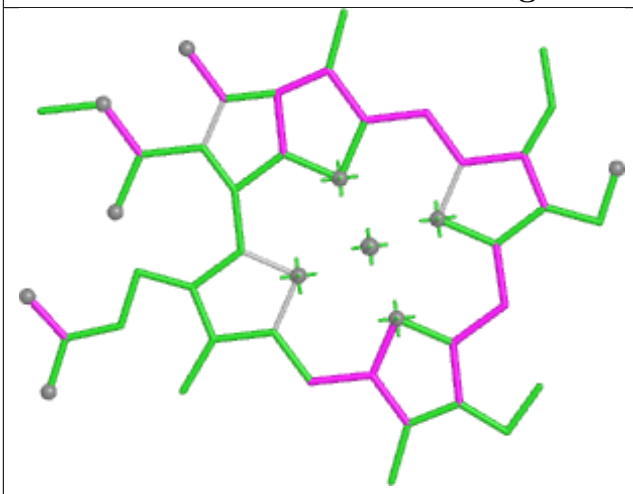


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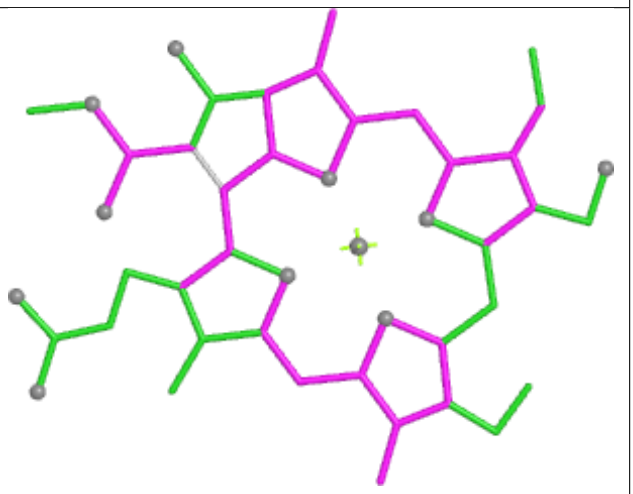


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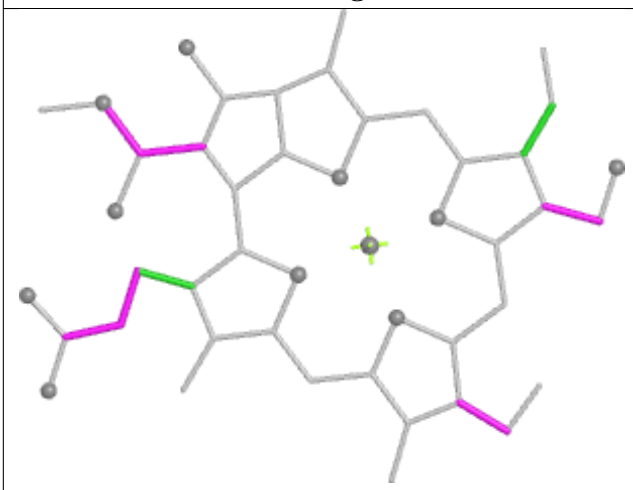
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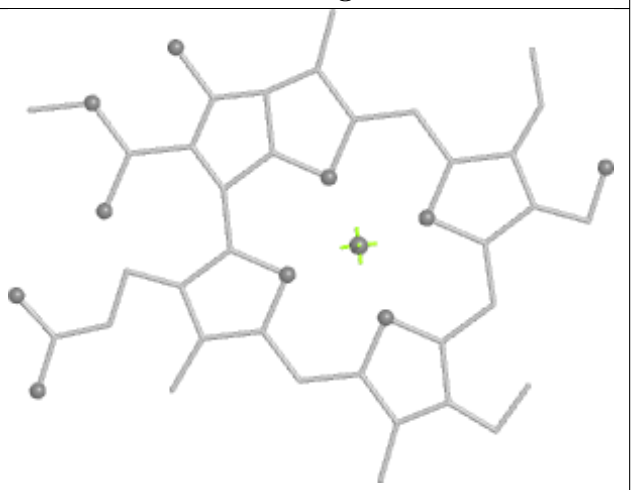
Bond lengths



Bond angles

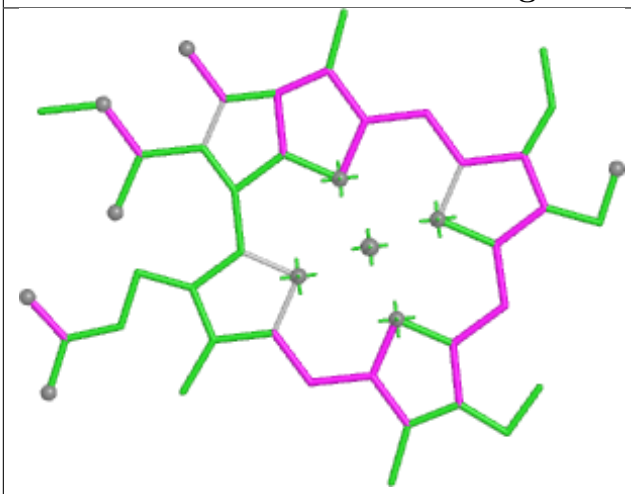


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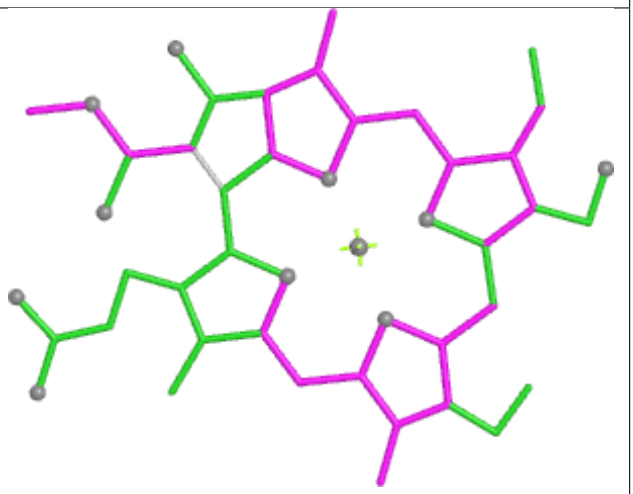


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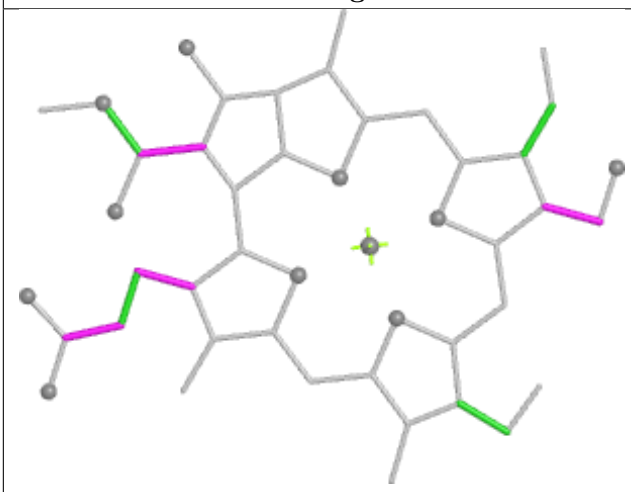
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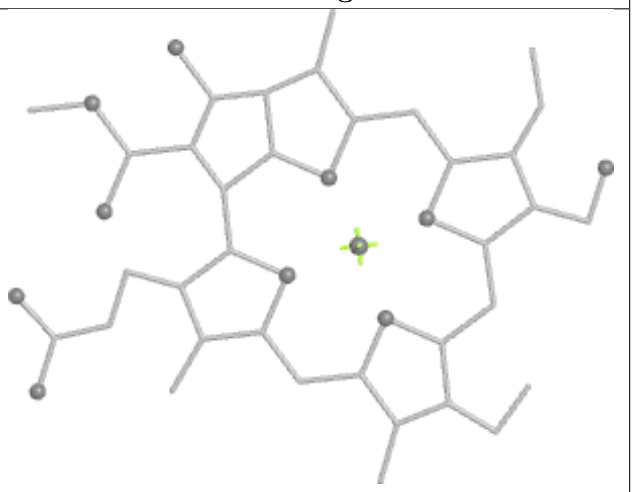
Bond lengths



Bond angles

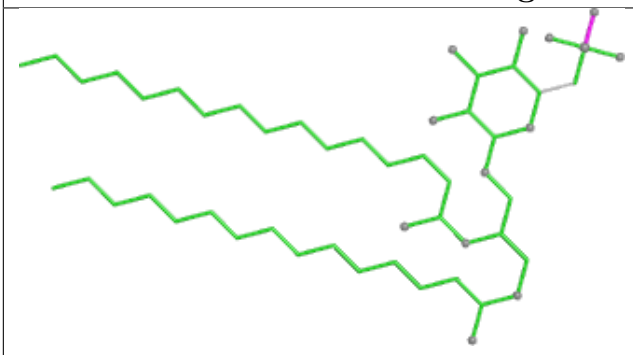


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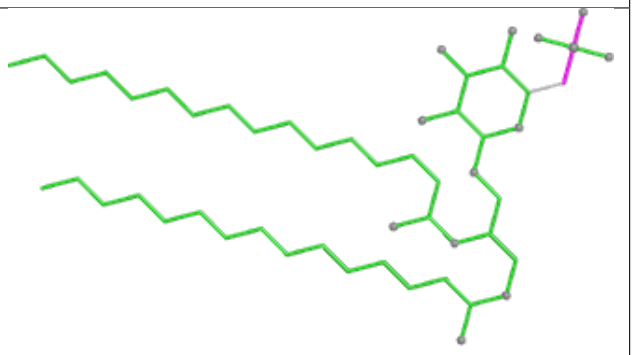


Rings

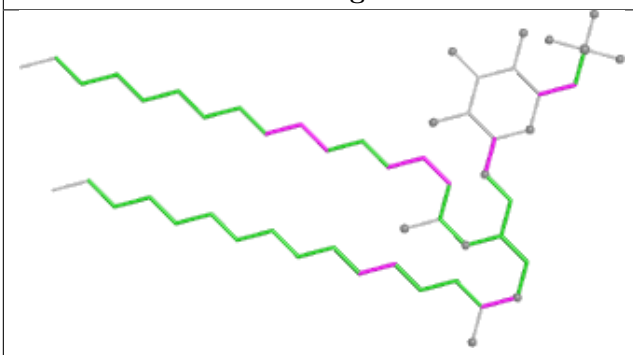
Ligand SQD 1L 102



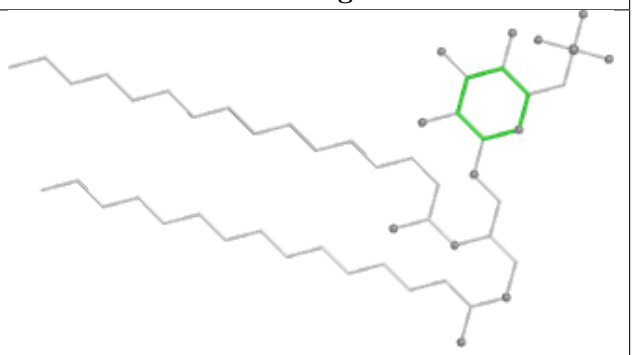
Bond lengths



Bond angles

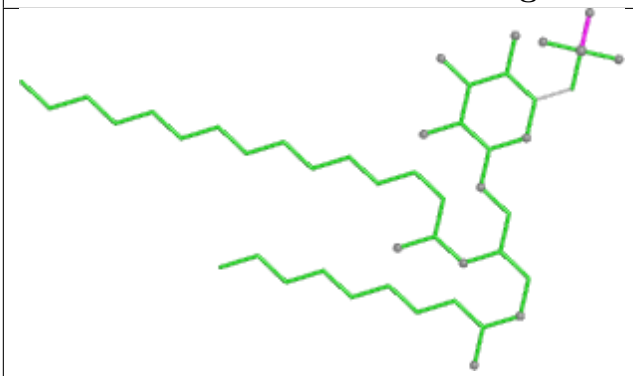


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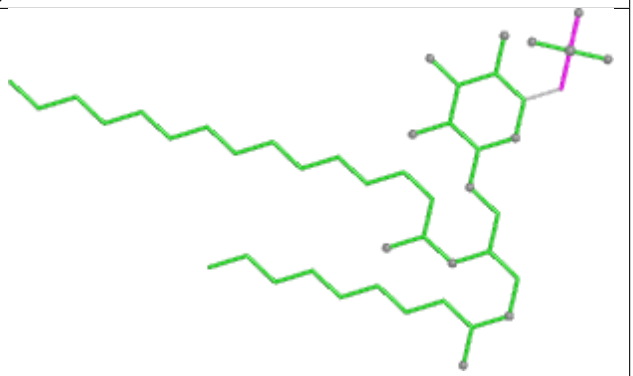


Rings

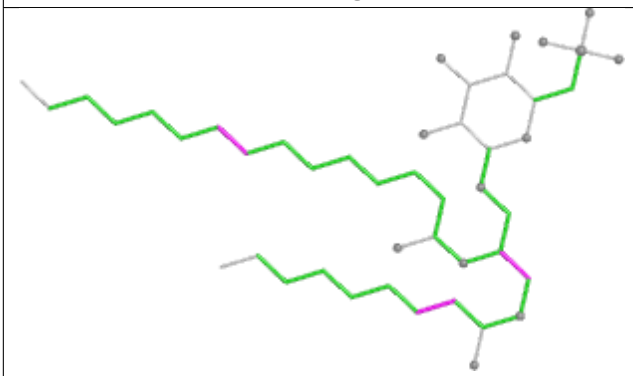
Ligand SQD 1a 411



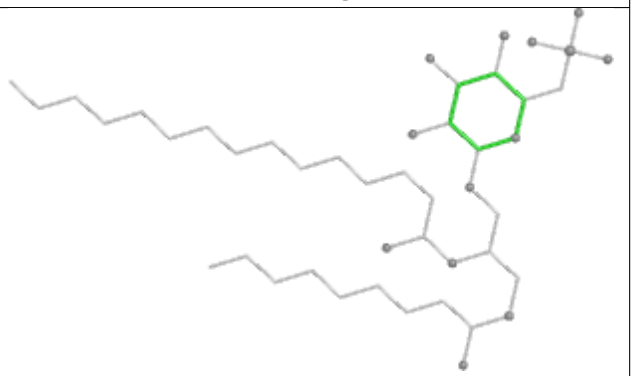
Bond lengths



Bond angles

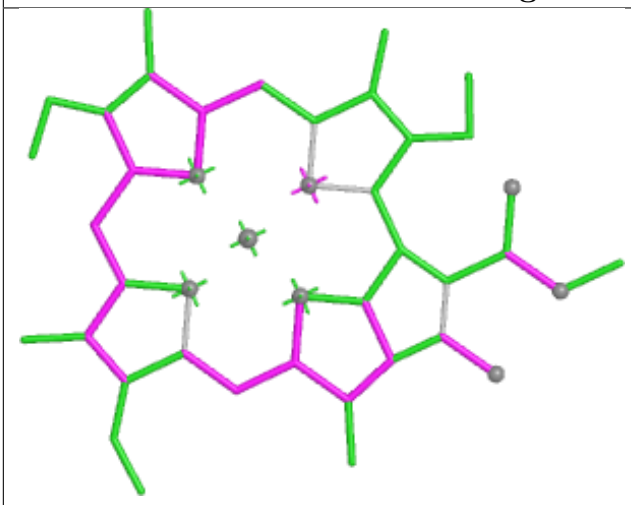


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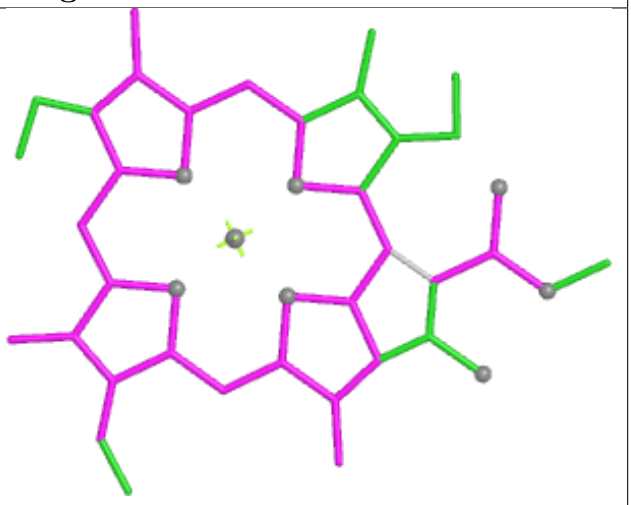


Rings

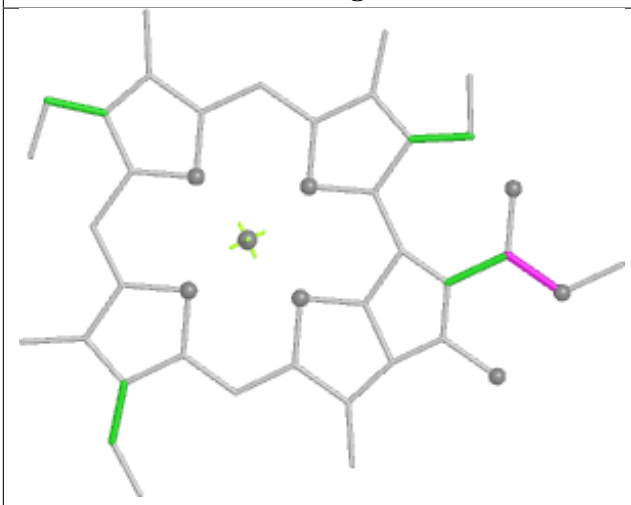
Ligand CLA 1g 611



Bond lengths



Bond angles

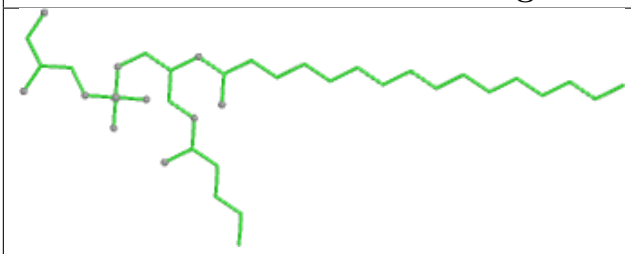


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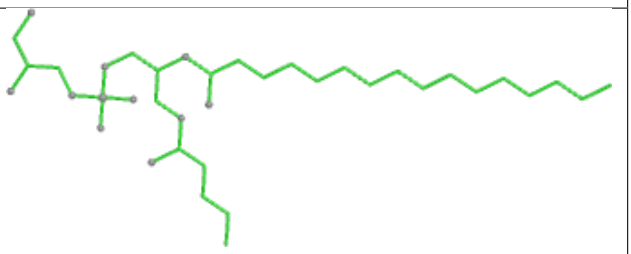


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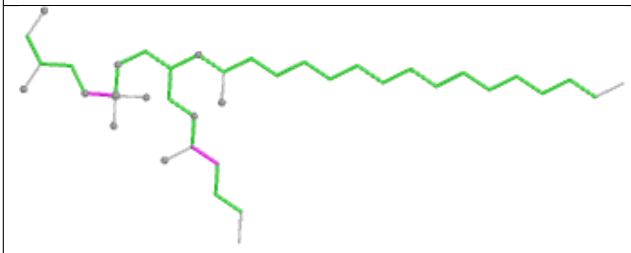
Ligand LHG 1d 402



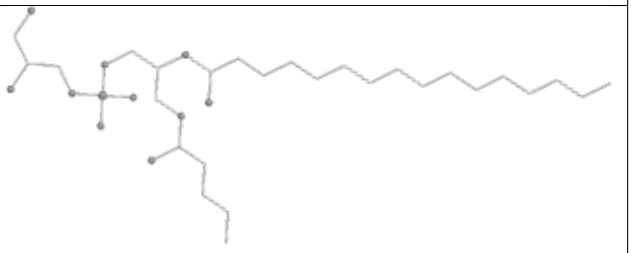
Bond lengths



Bond angles

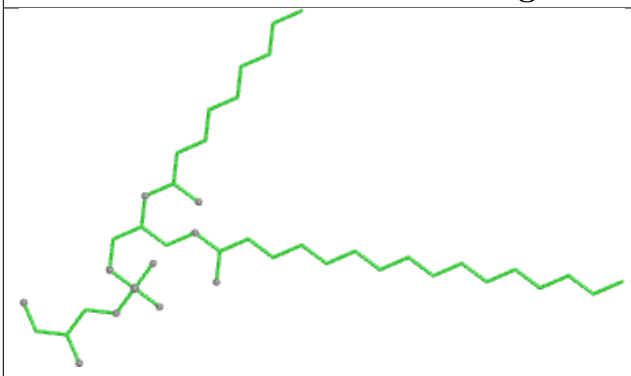


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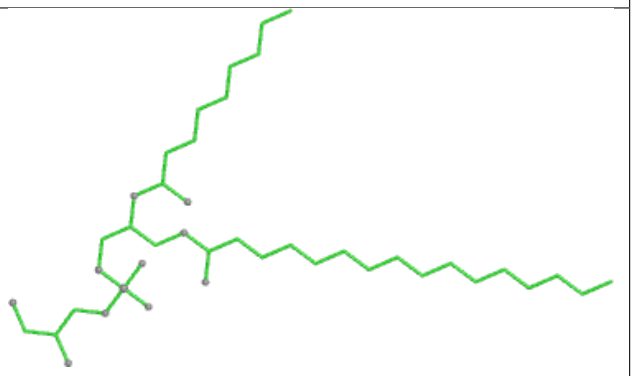


Rings

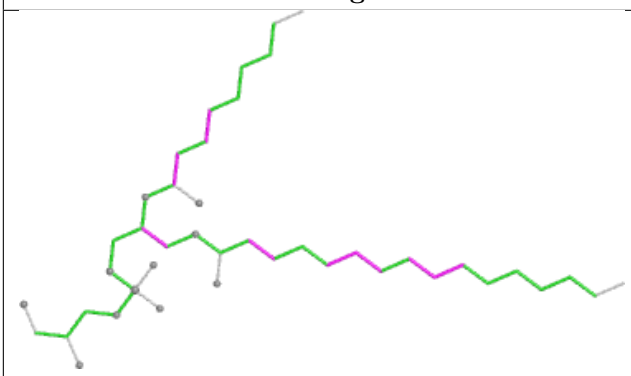
Ligand LHG 1e 102



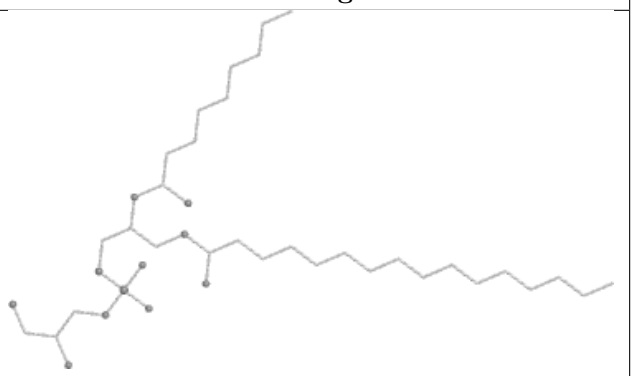
Bond lengths



Bond angles

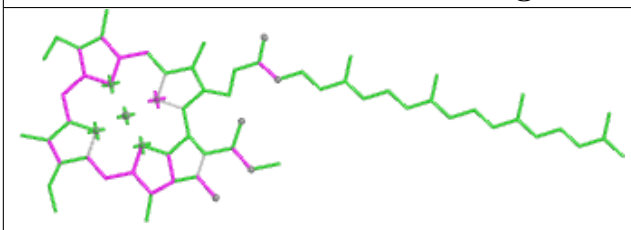


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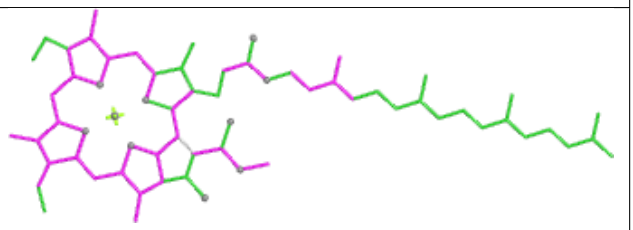


Rings

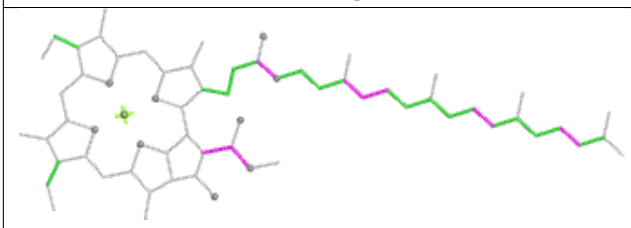
Ligand CLA 1B 603



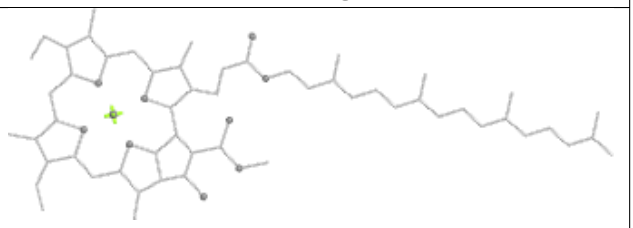
Bond lengths



Bond angles

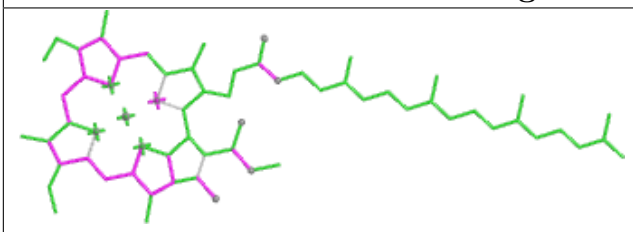


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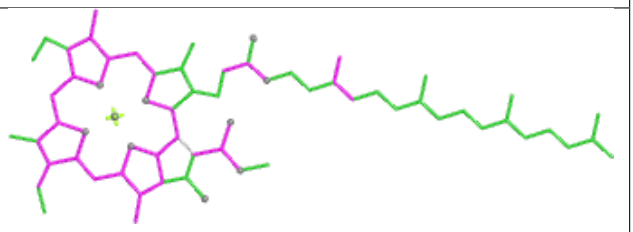


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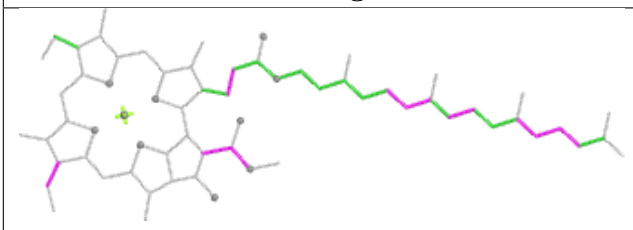
Ligand CLA 1b 611



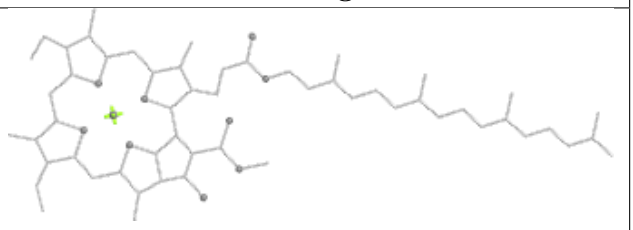
Bond lengths



Bond angles



Torsions



Rings

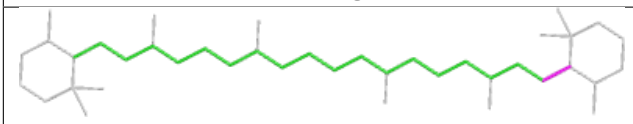
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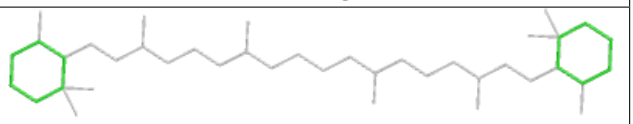
Bond lengths



Bond angles

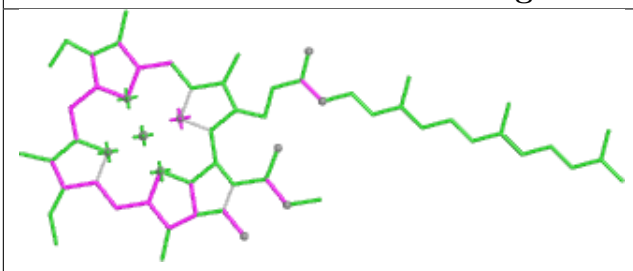


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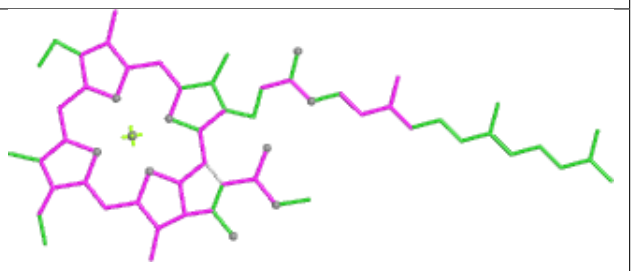


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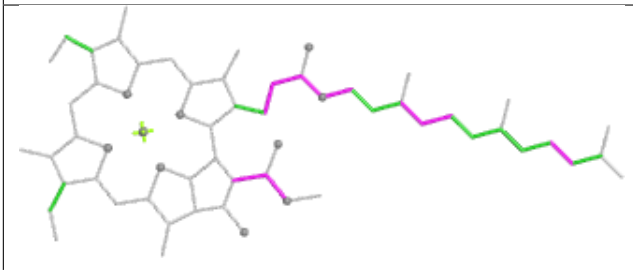
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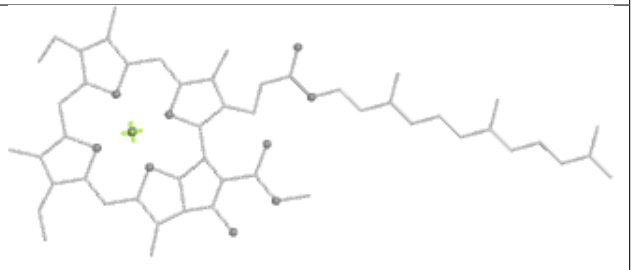
Bond lengths



Bond angles

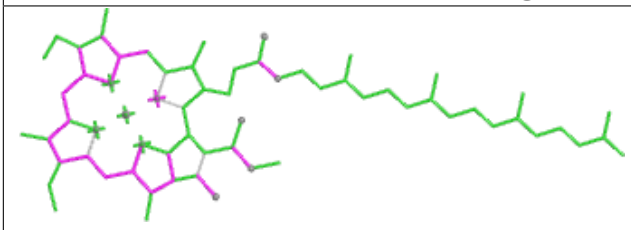


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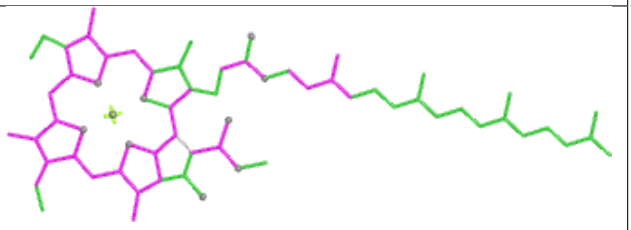


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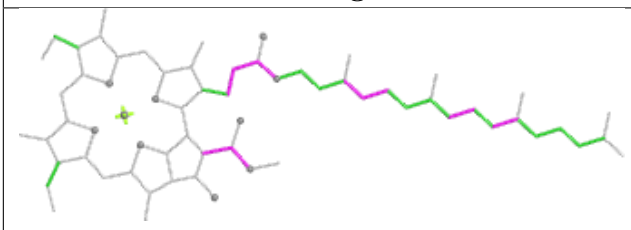
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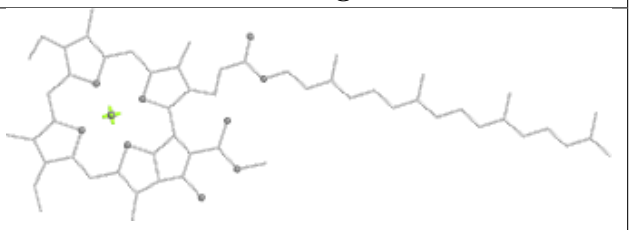
Bond lengths



Bond angles

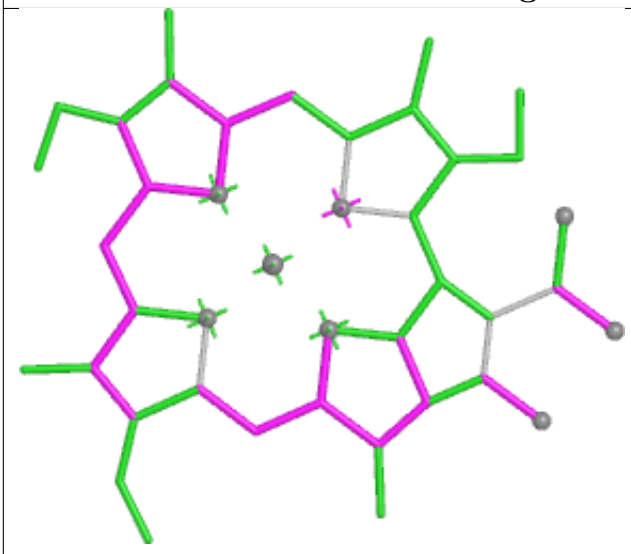


Torsions



Rings

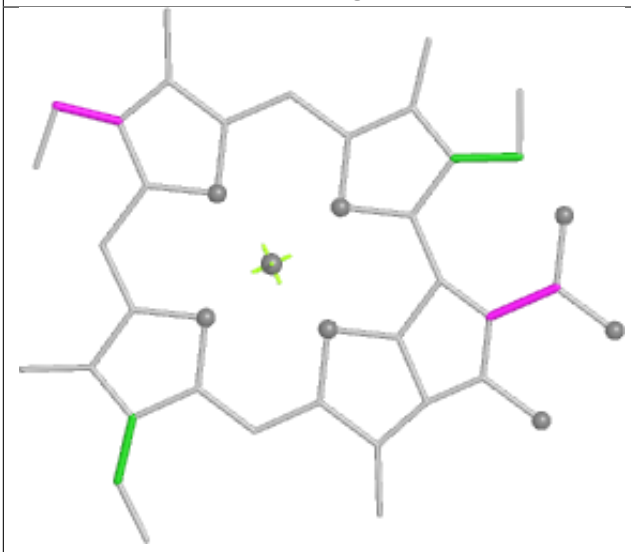
Ligand CLA 08 308



Bond lengths



Bond angles

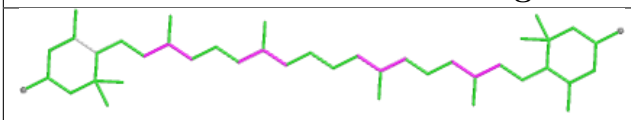


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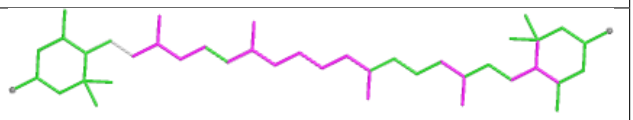


Rings

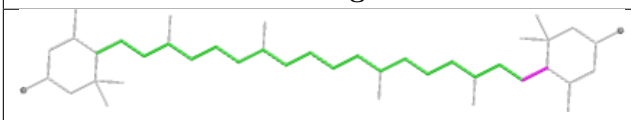
Ligand LUT 1G 616



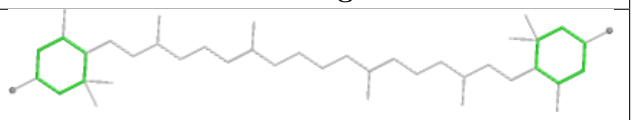
Bond lengths



Bond angles

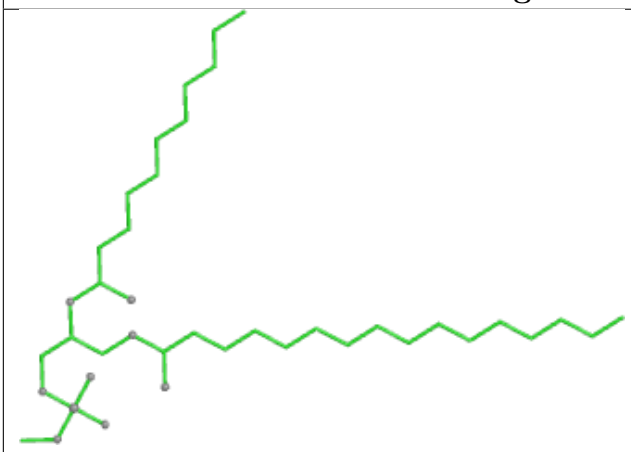


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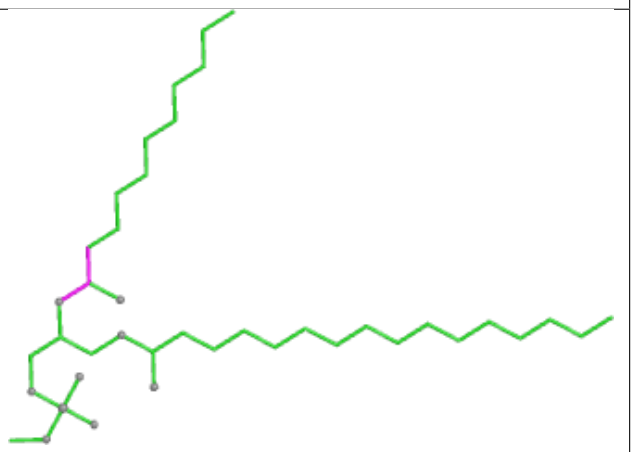


Rings

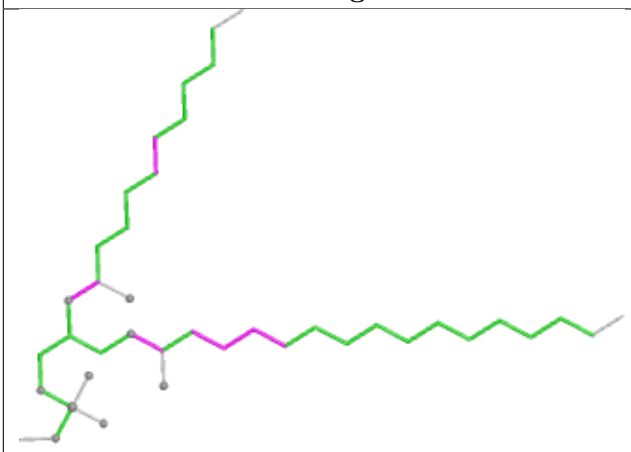
Ligand LHG 1C 525



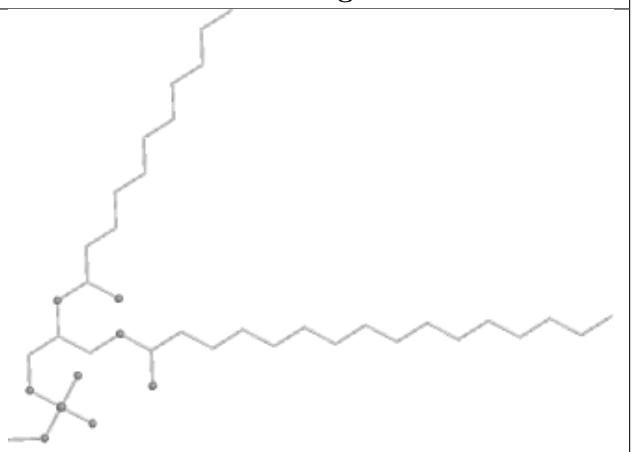
Bond lengths



Bond angles

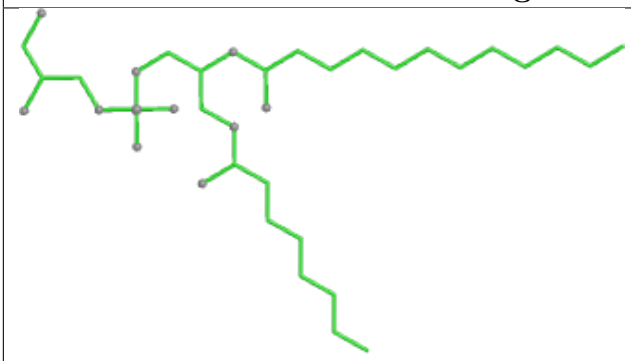


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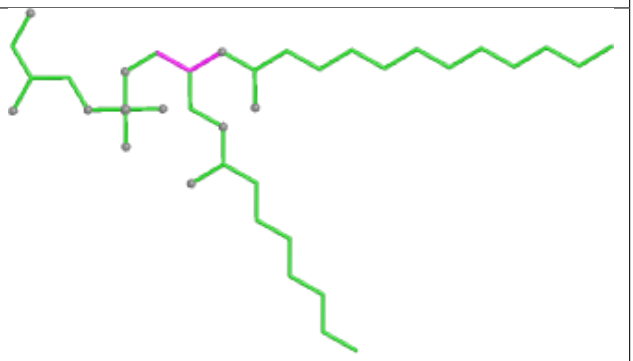


Rings

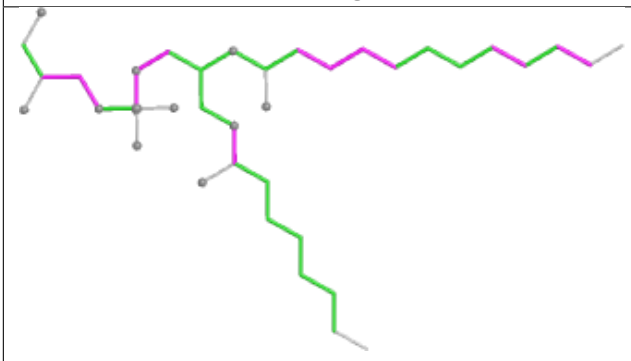
Ligand LHG 1C 527



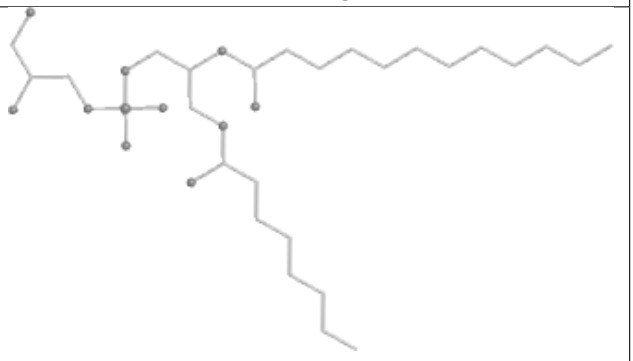
Bond lengths



Bond angles

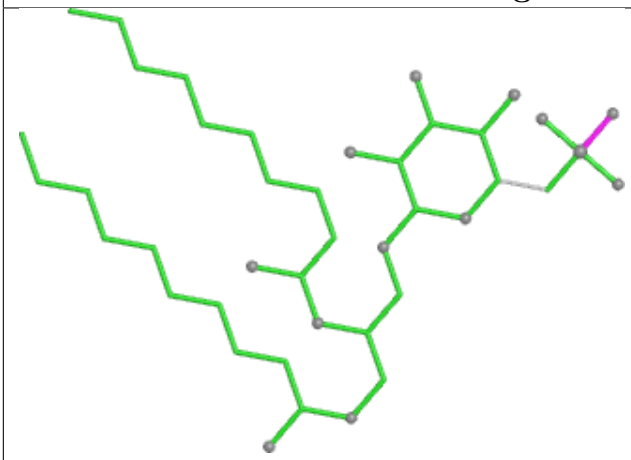


Torsions

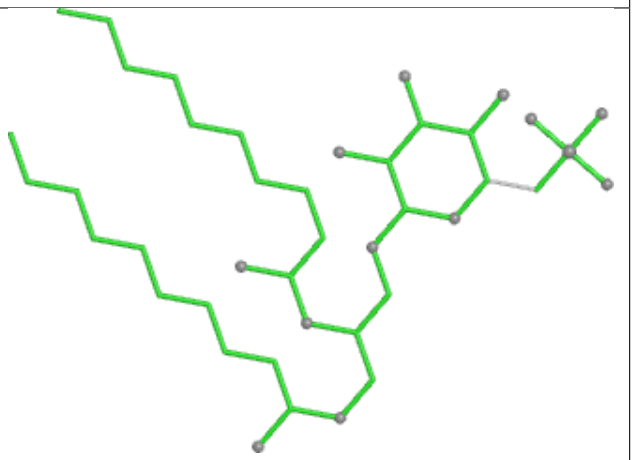


Rings

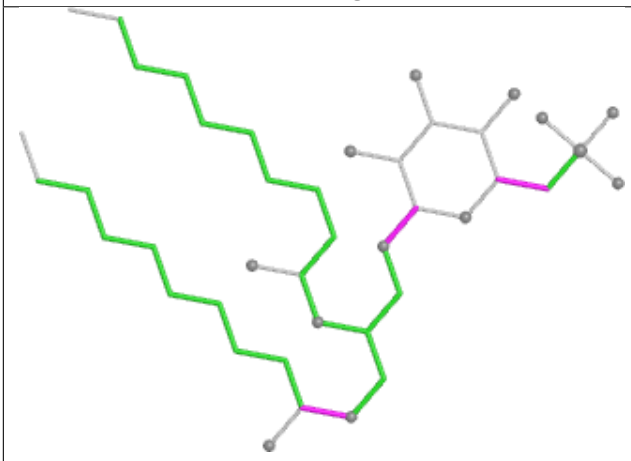
Ligand SQD 1m 101



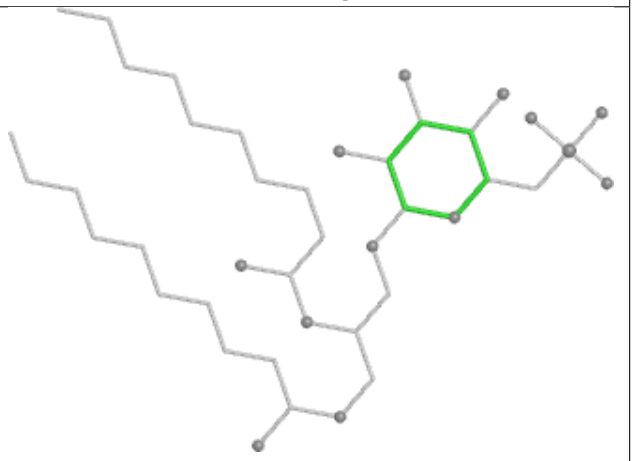
Bond lengths



Bond angles

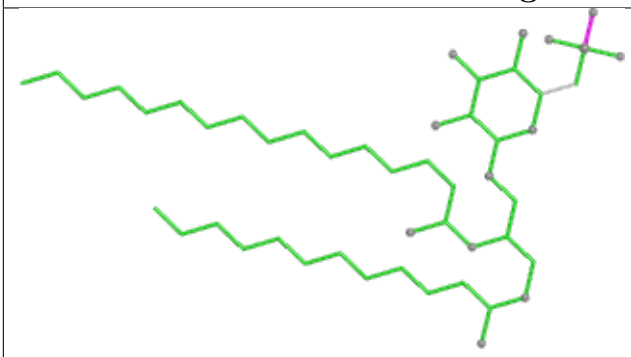


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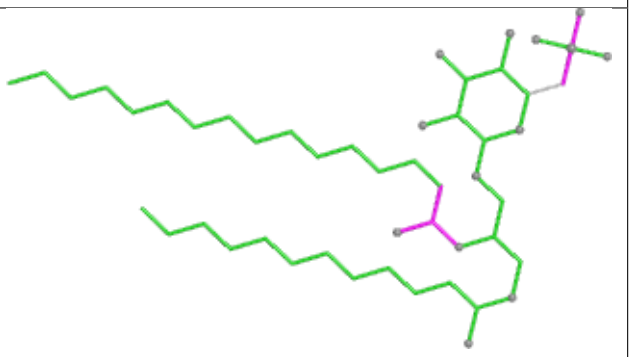


Rings

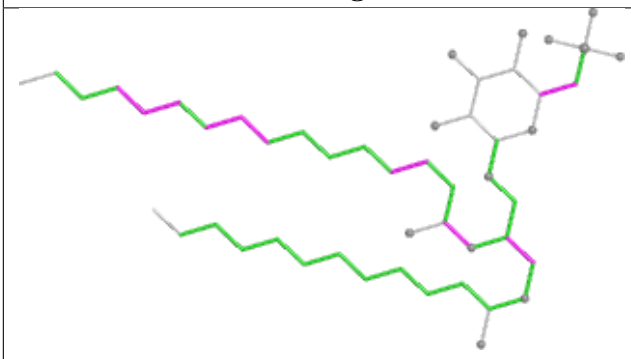
Ligand SQD 1a 410



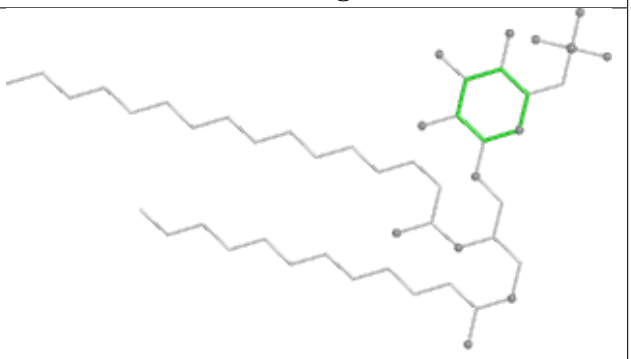
Bond lengths



Bond angles

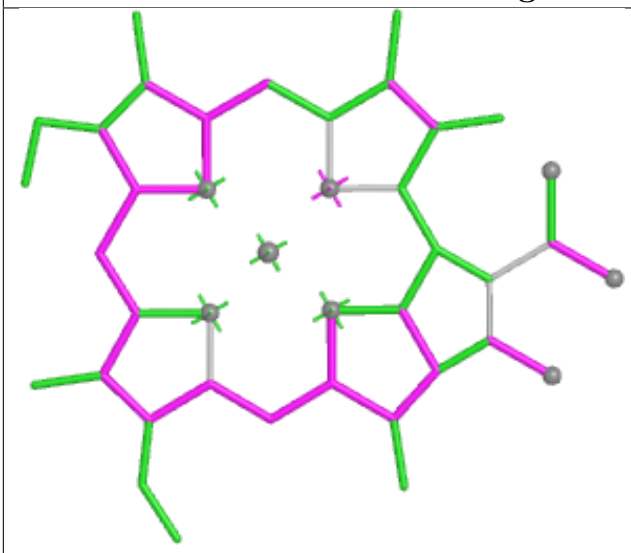


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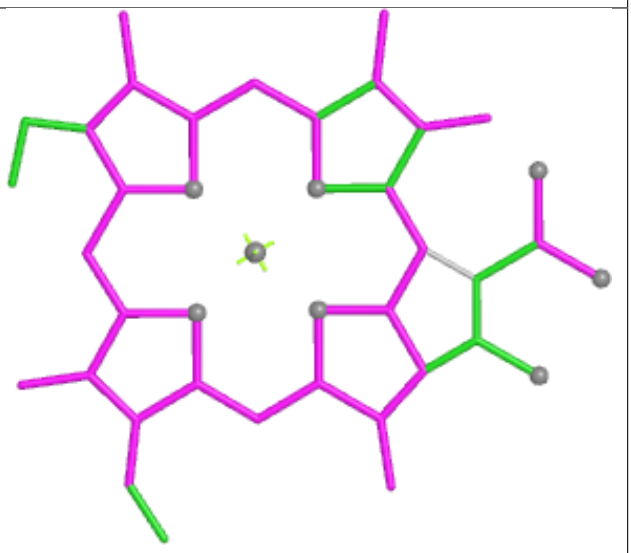


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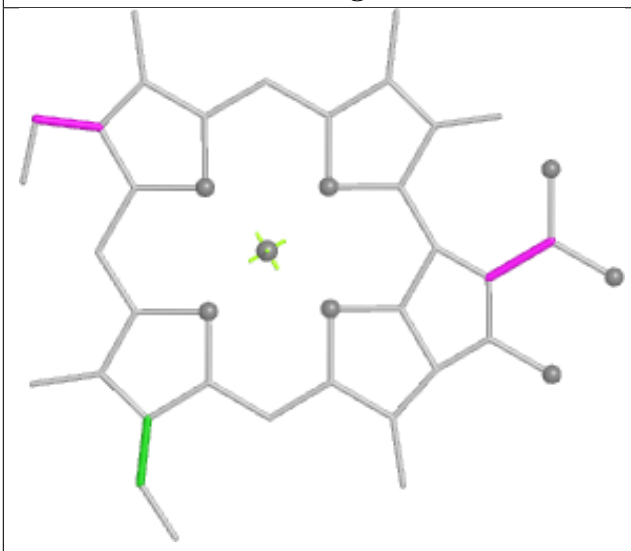
Ligand CLA 1S 306



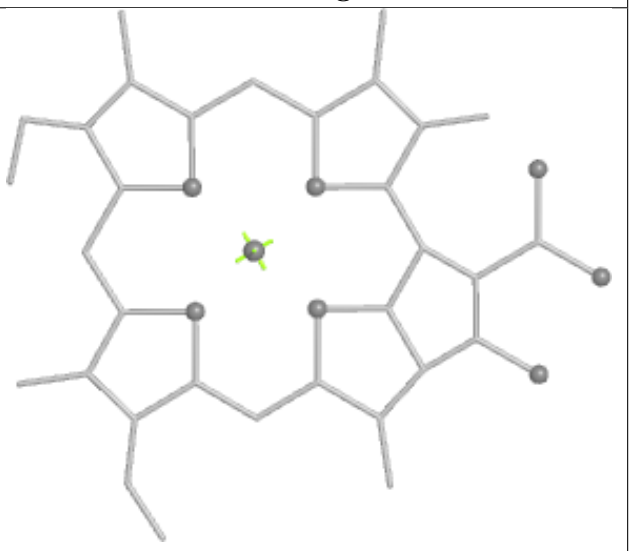
Bond lengths



Bond angles

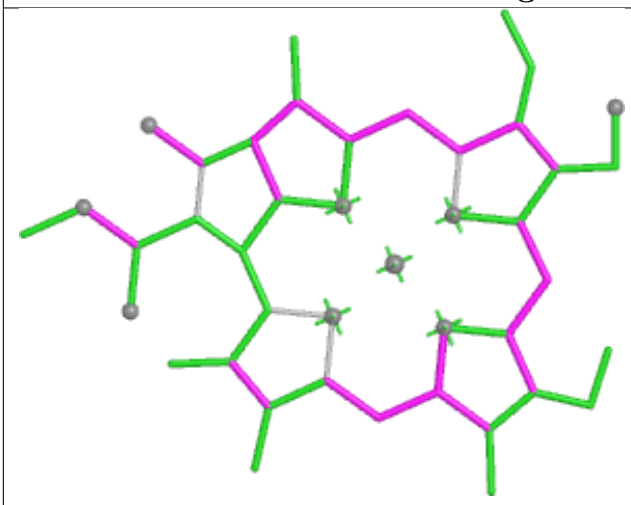


Torsions

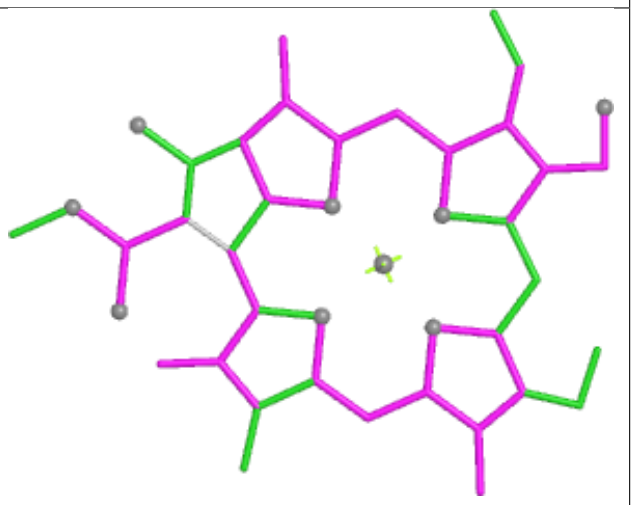


Rings

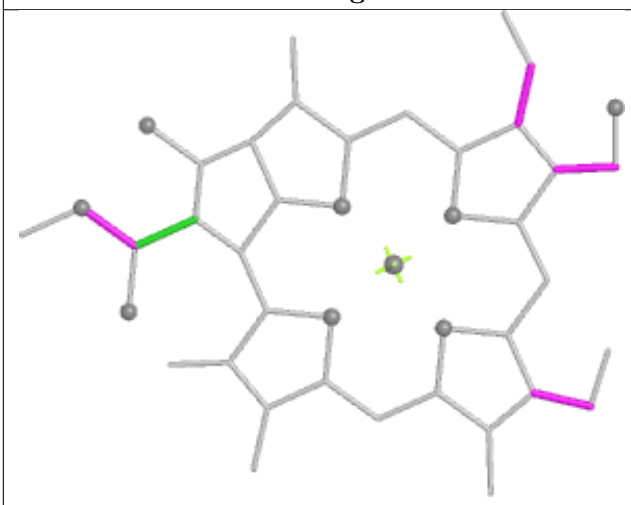
Ligand CHL 1S 309



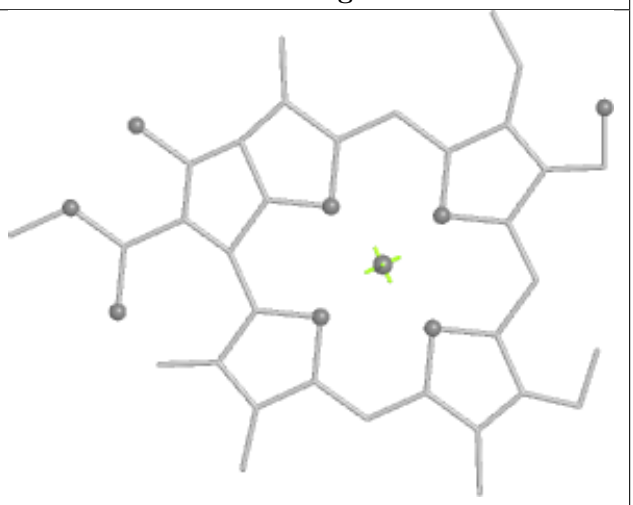
Bond lengths



Bond angles

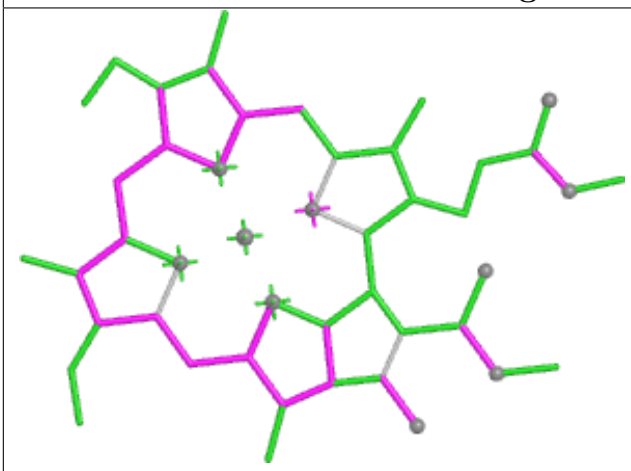


Torsions

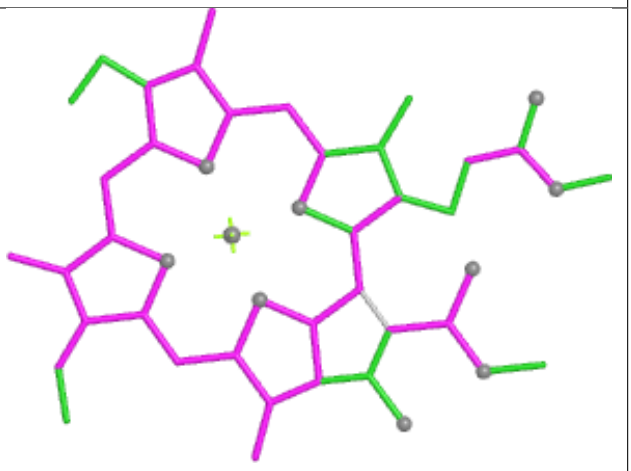


Rings

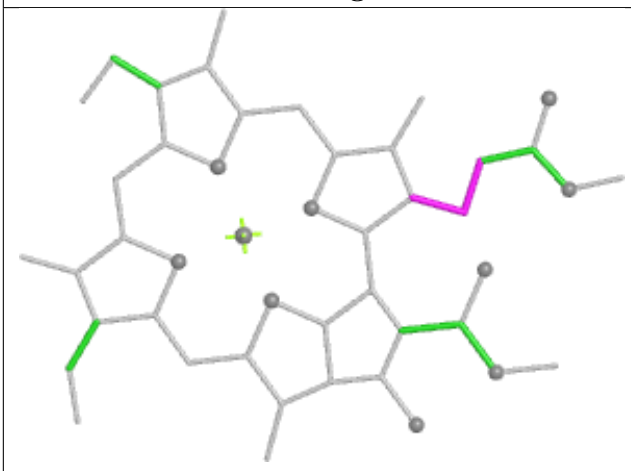
Ligand CLA 01 313



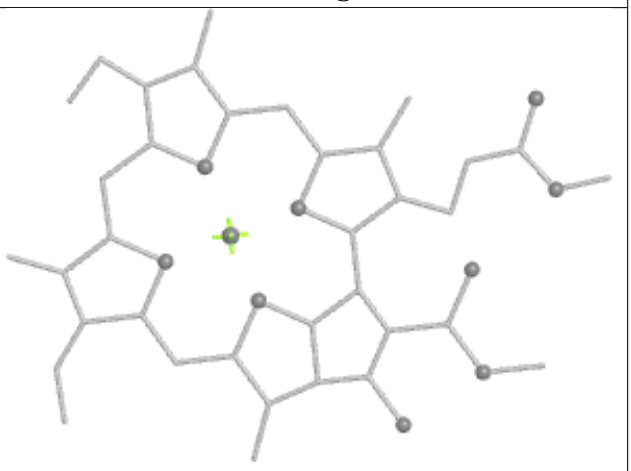
Bond lengths



Bond angles

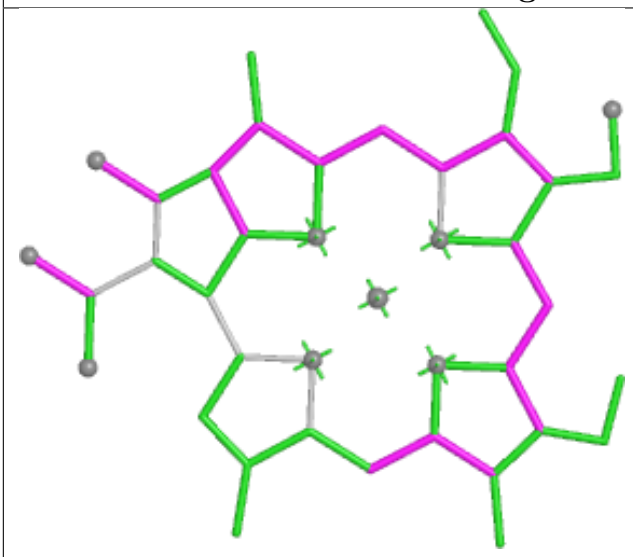


Torsions

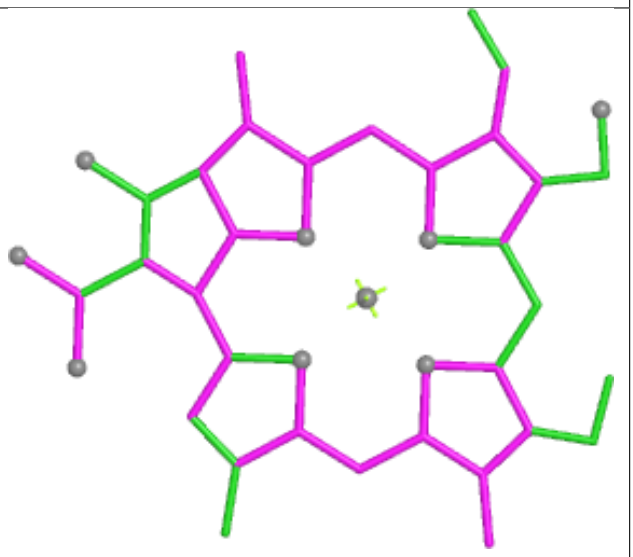


Rings

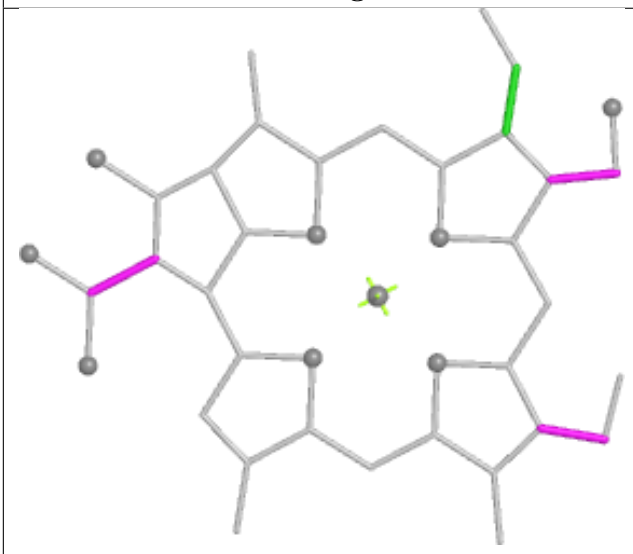
Ligand CHL 06 603



Bond lengths



Bond angles

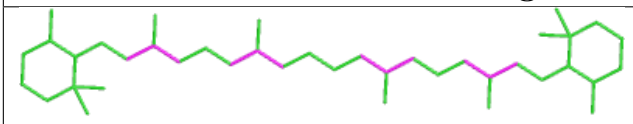


Torsions

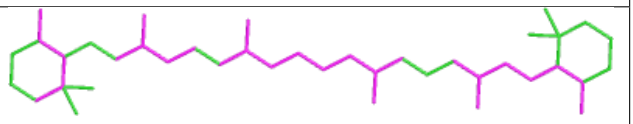


Rings

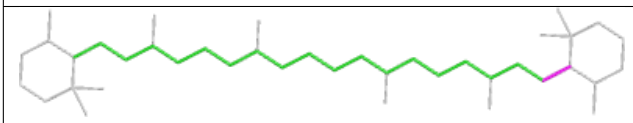
Ligand BCR 1c 516



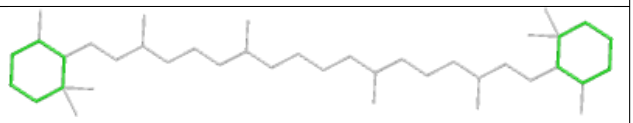
Bond lengths



Bond angles

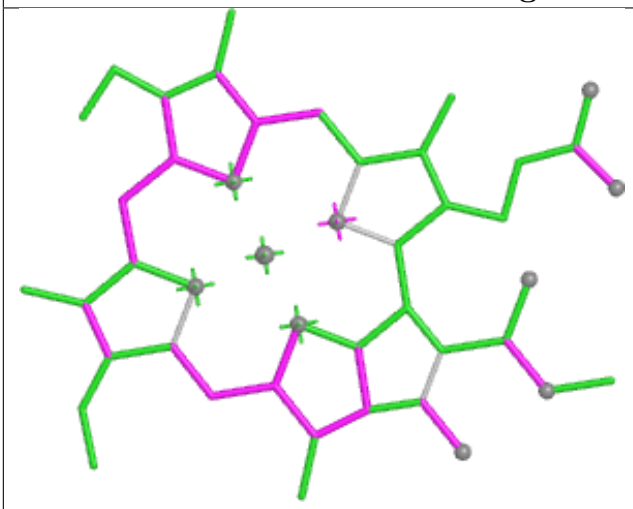


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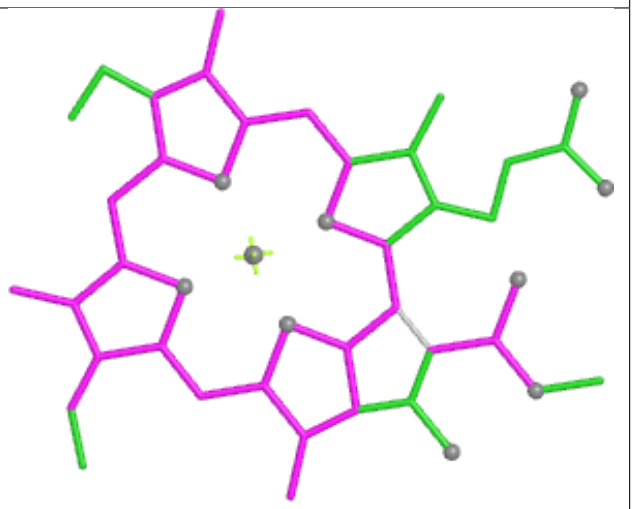


Rings

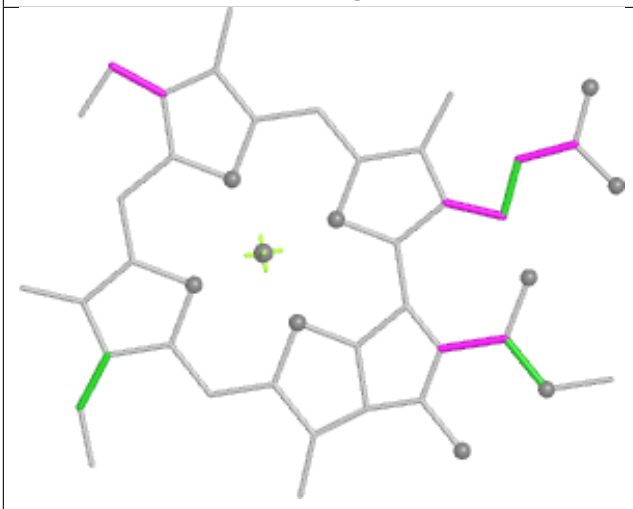
Ligand CLA 00 311



Bond lengths



Bond angles

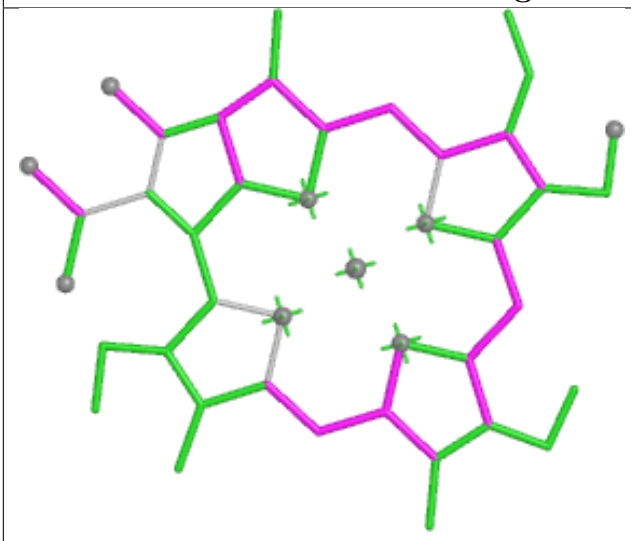


Torsions

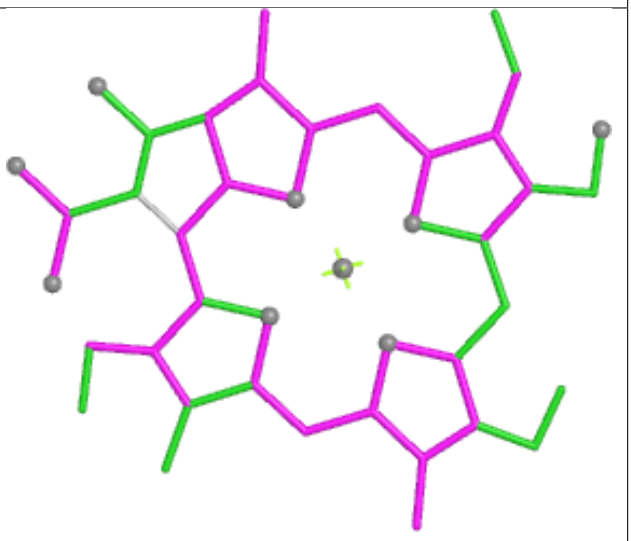


Rings

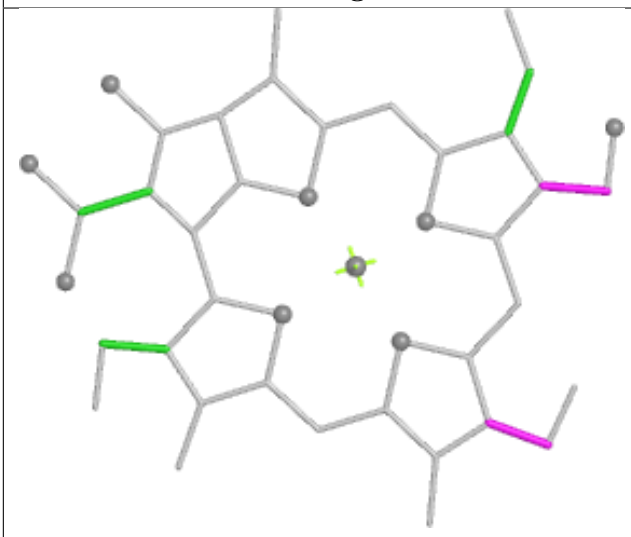
Ligand CHL 1R 304



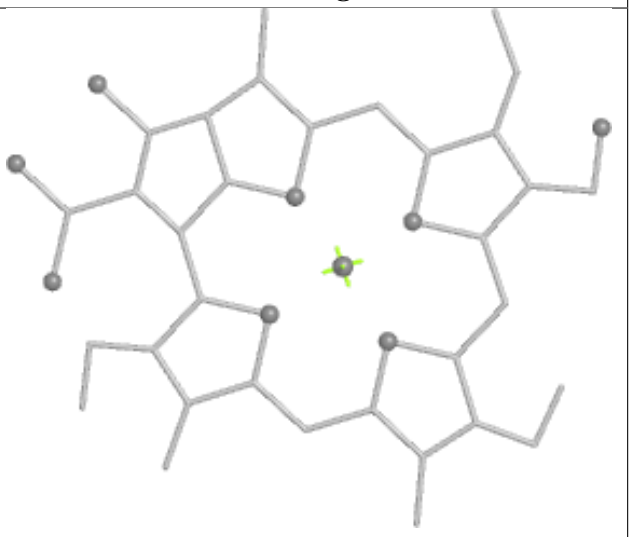
Bond lengths



Bond angles

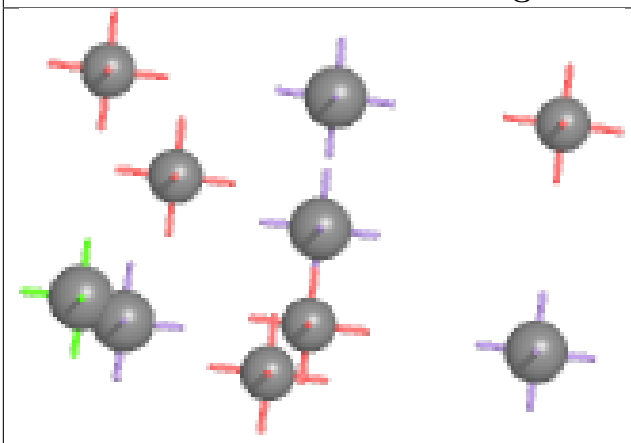


Torsions

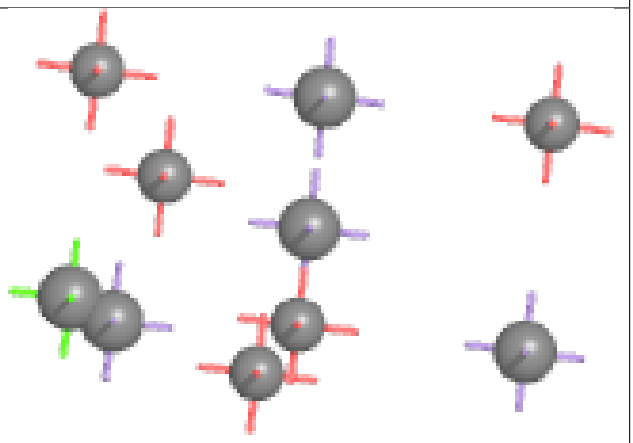


Rings

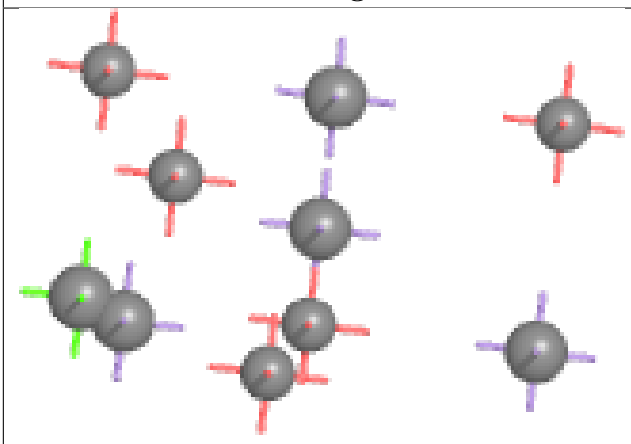
Ligand OEX 1A 408



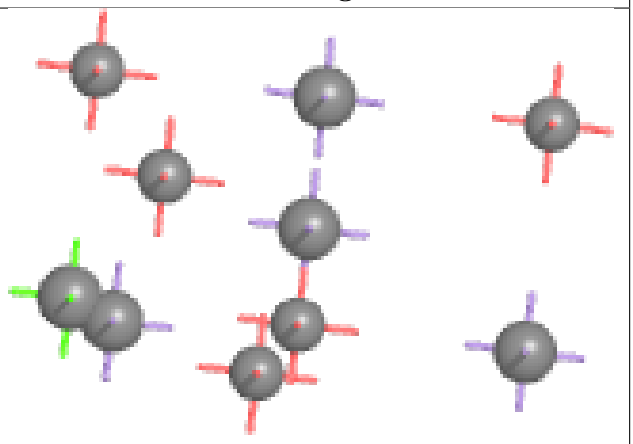
Bond lengths



Bond angles

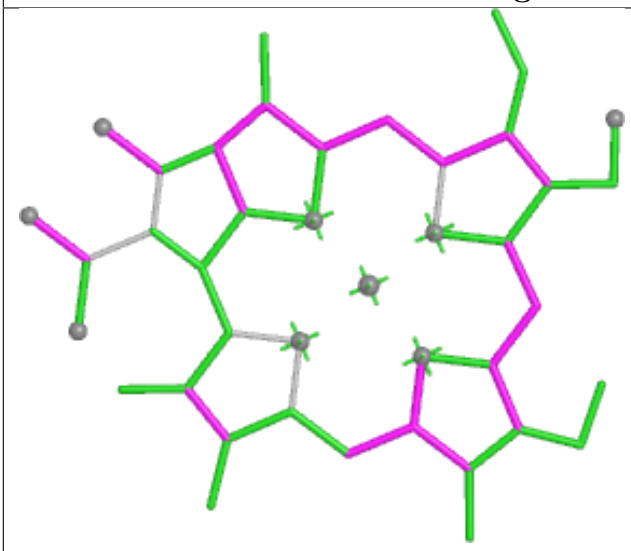


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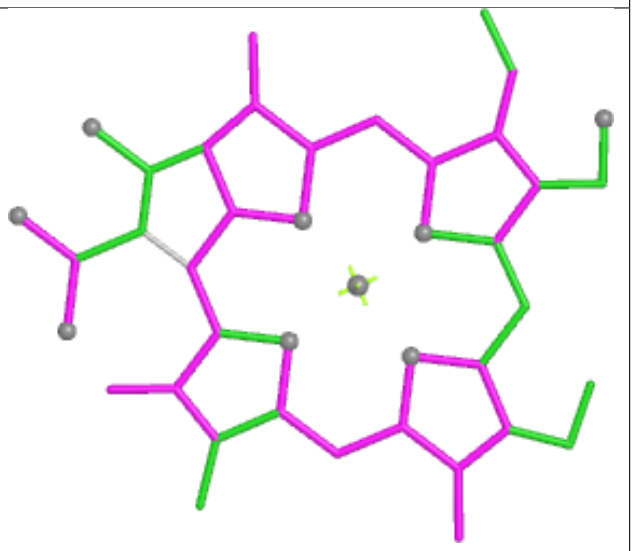


Rings

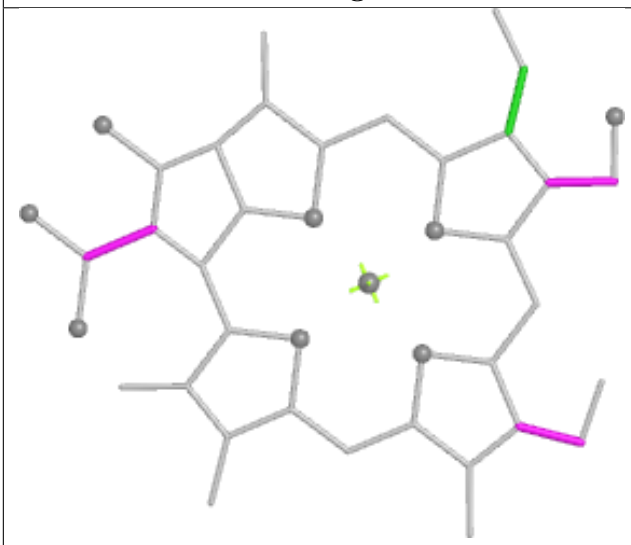
Ligand CHL 1G 605



Bond lengths



Bond angles

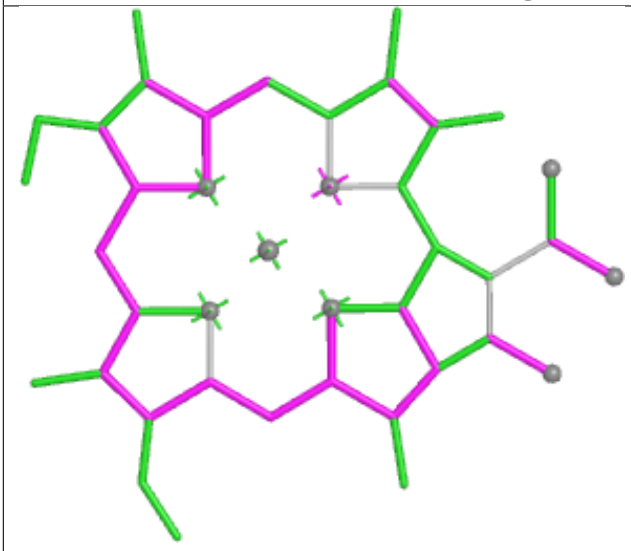


Torsions

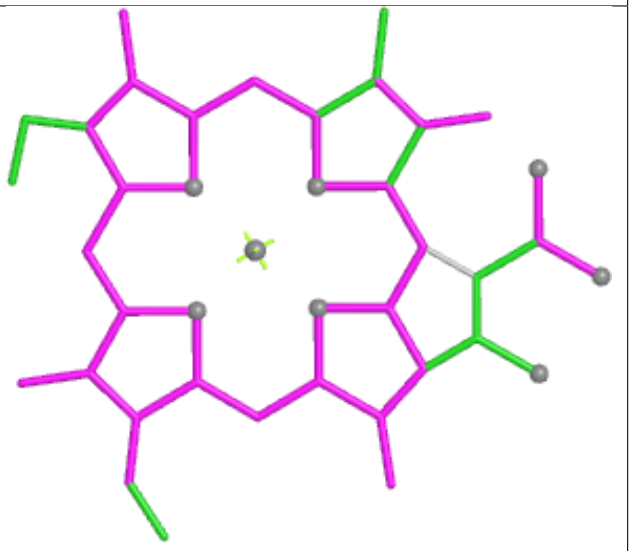


Rings

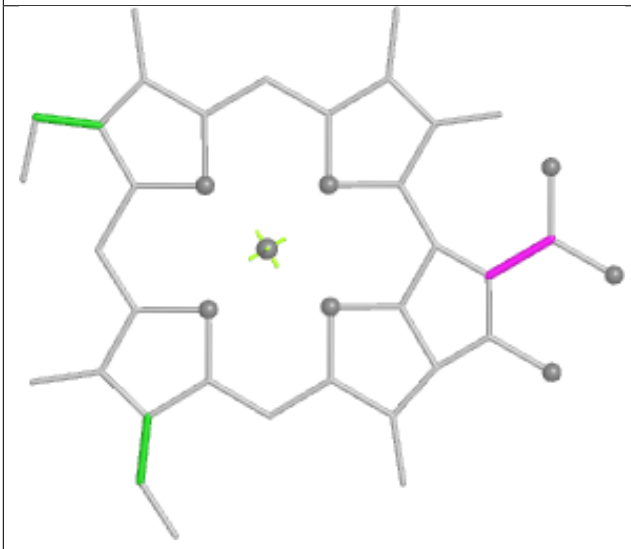
Ligand CLA 04 312



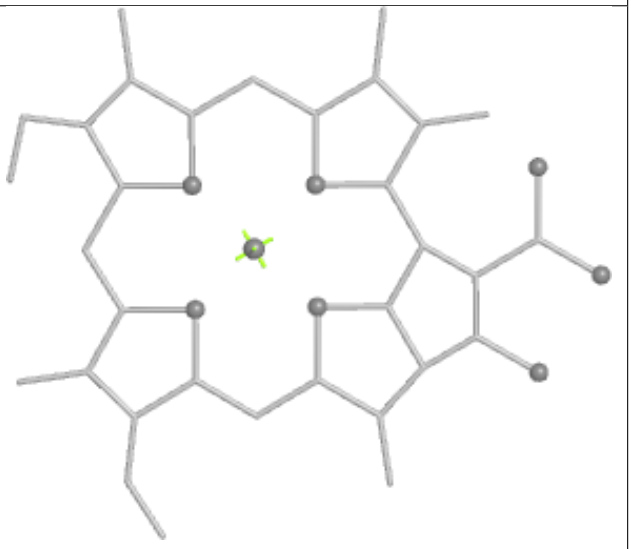
Bond lengths



Bond angles

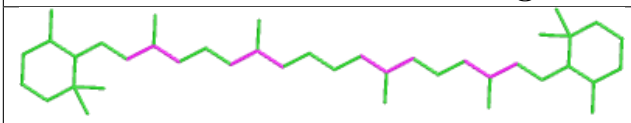


Torsions

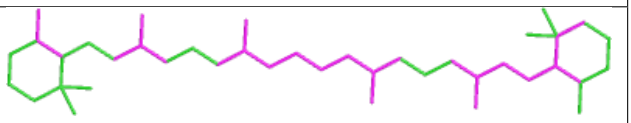


Rings

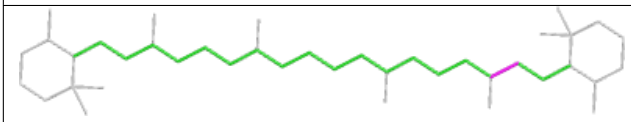
Ligand BCR 1b 620



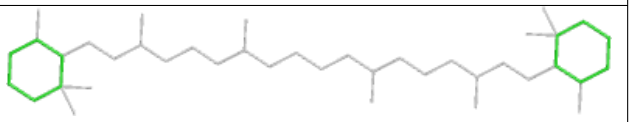
Bond lengths



Bond angles

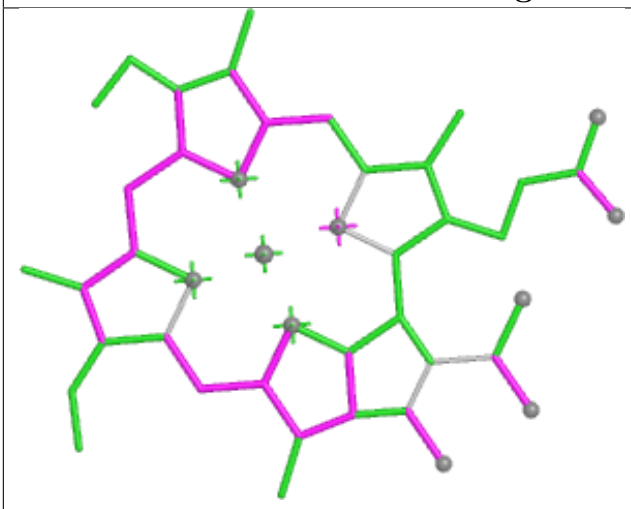


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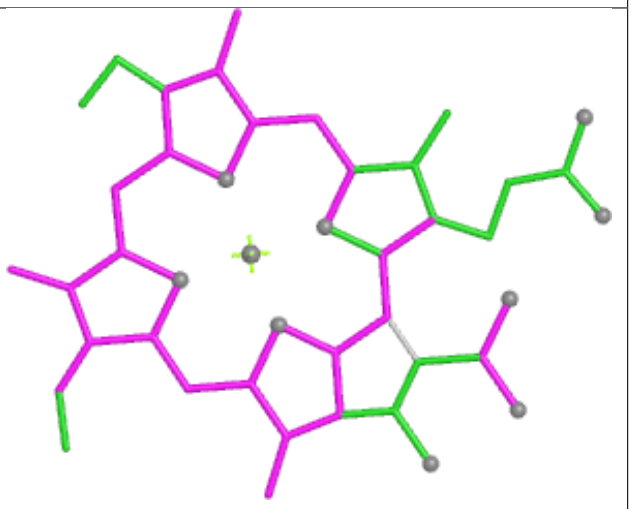


Rings

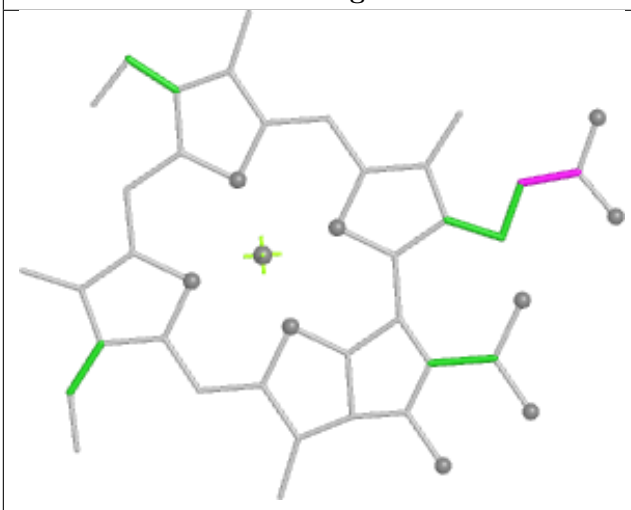
Ligand CLA 1R 311



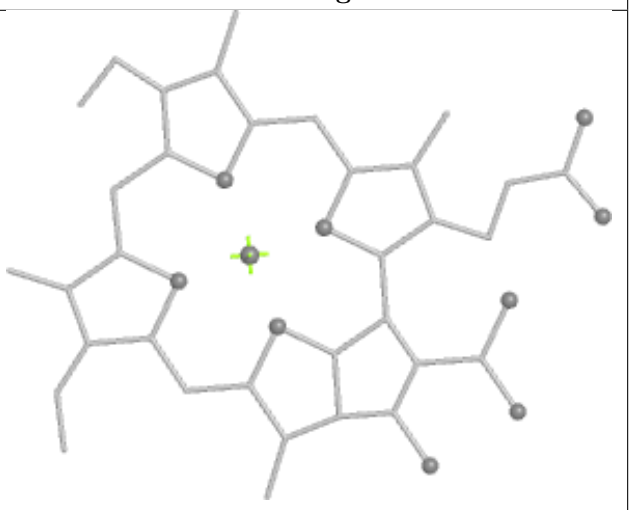
Bond lengths



Bond angles

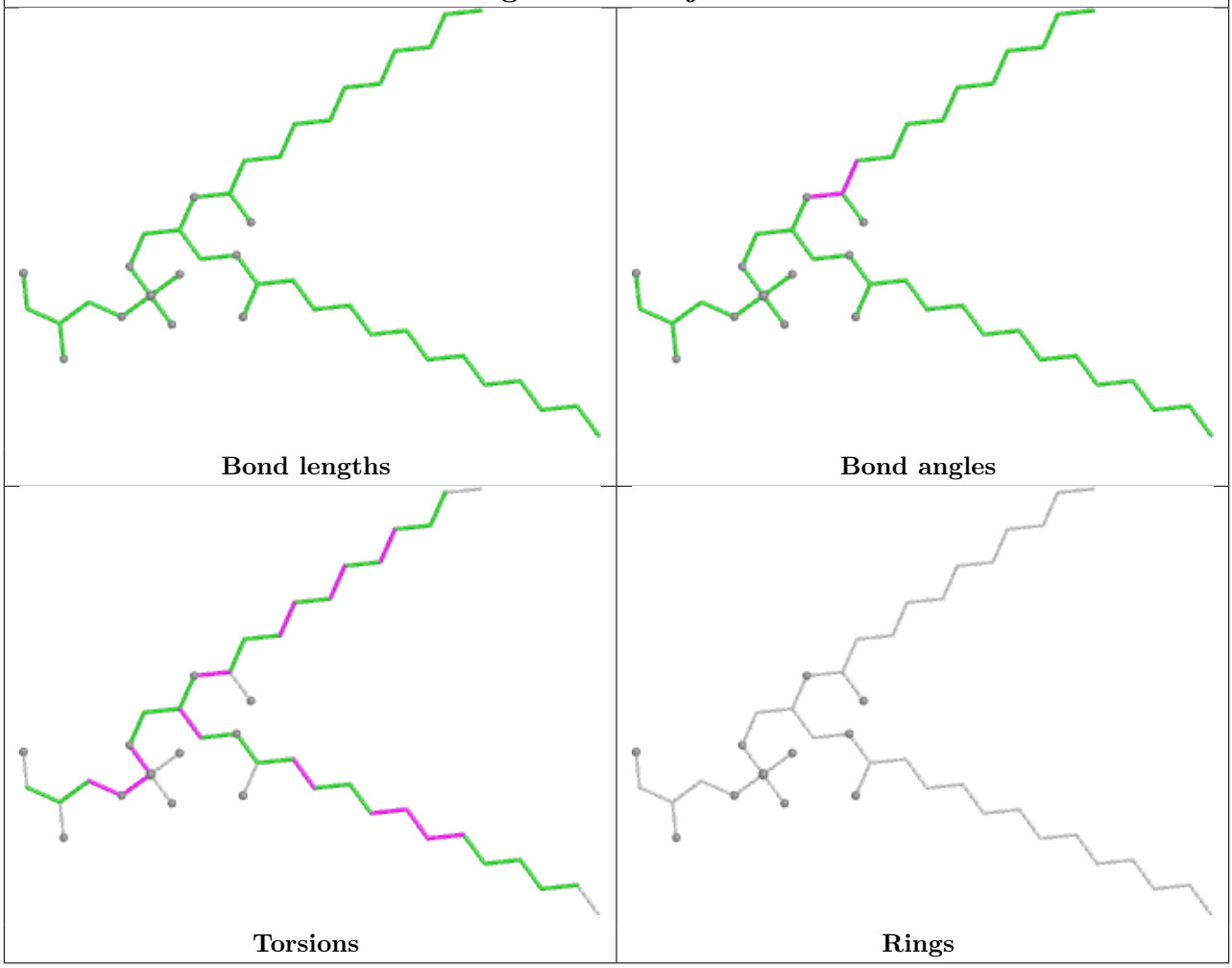


Torsions

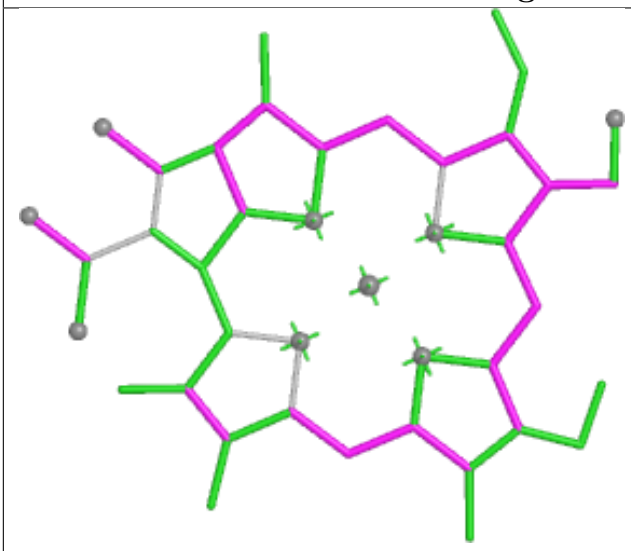


Rings

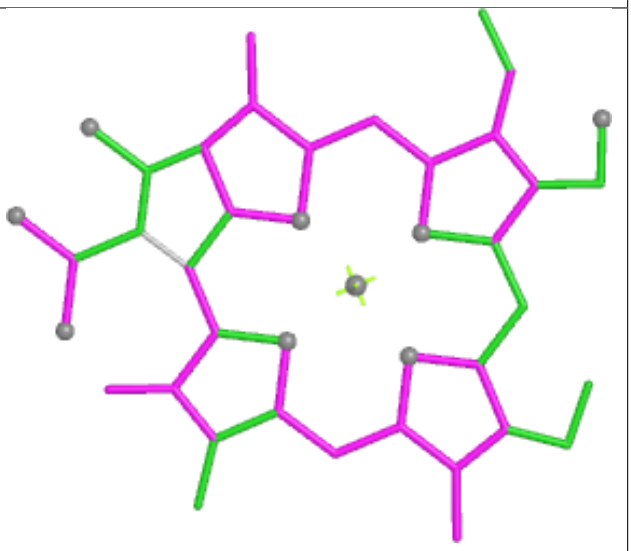
Ligand LHG 1j 102



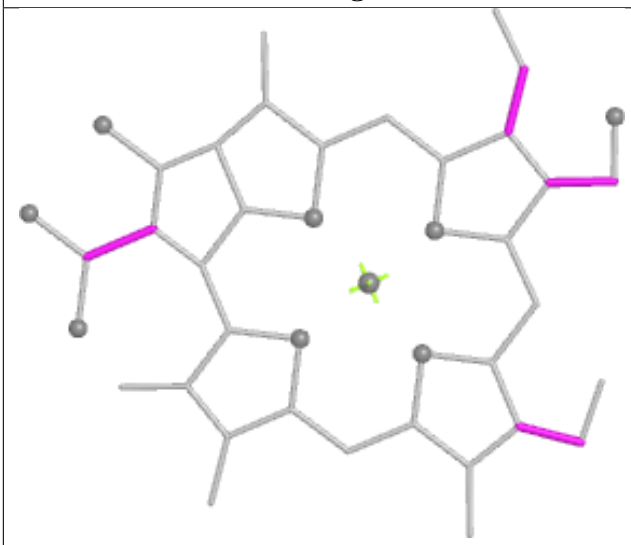
Ligand CHL 1S 307



Bond lengths



Bond angles

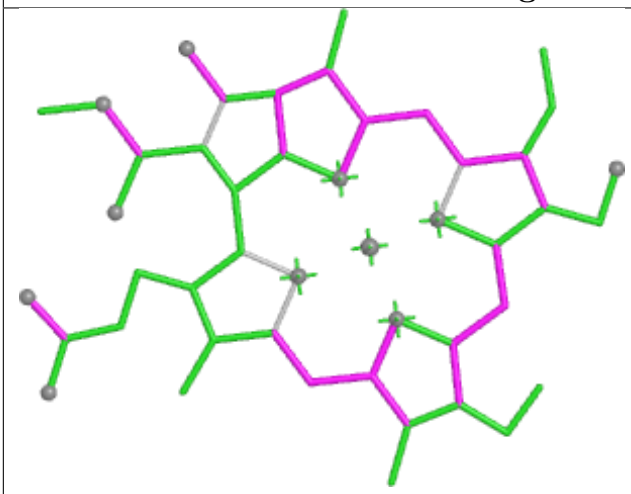


Torsions

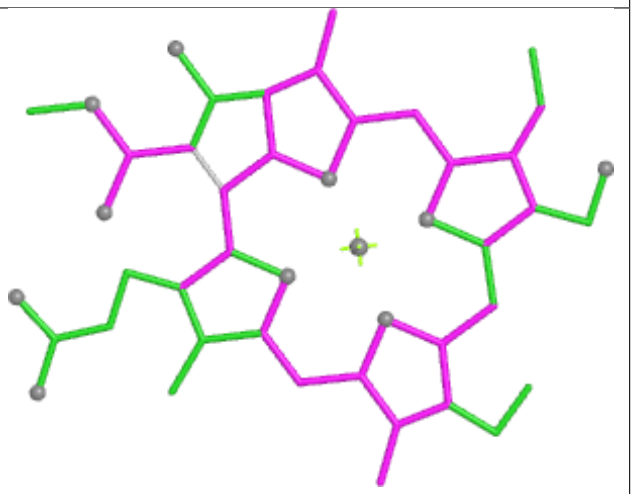


Rings

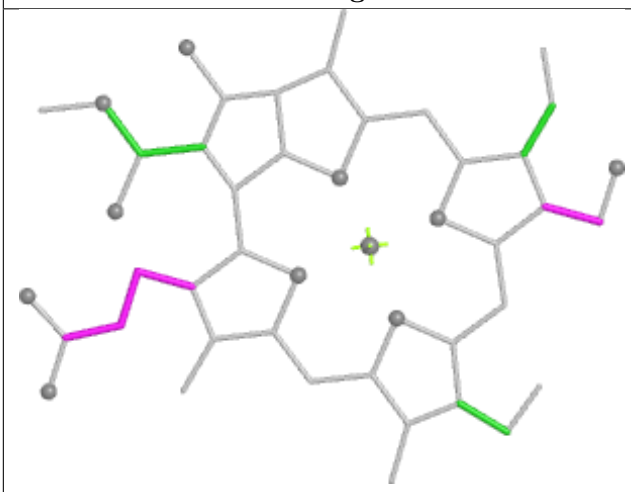
Ligand CHL 01 303



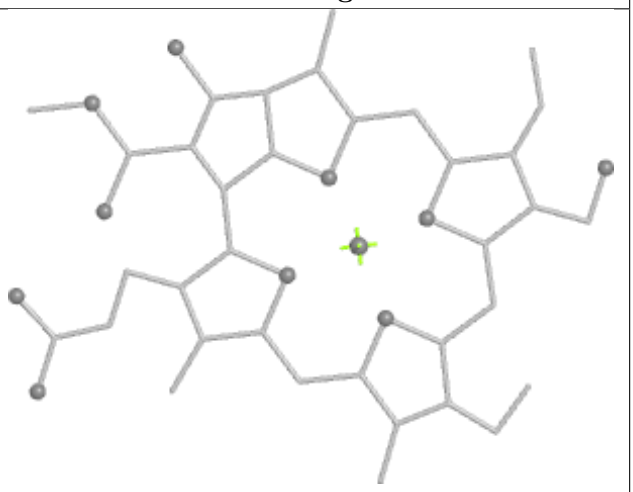
Bond lengths



Bond angles

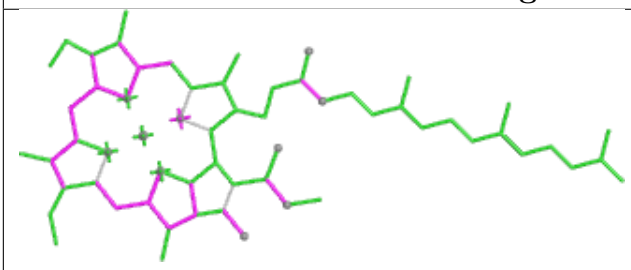


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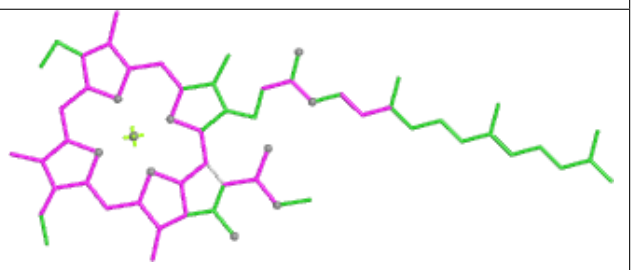


Rings

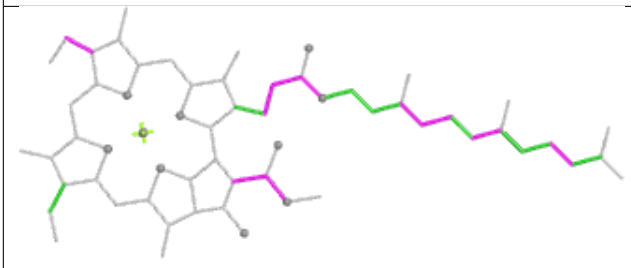
Ligand CLA 00 318



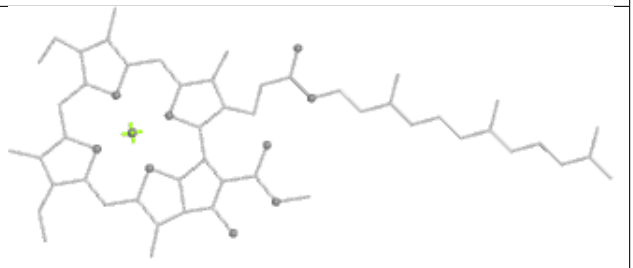
Bond lengths



Bond angles

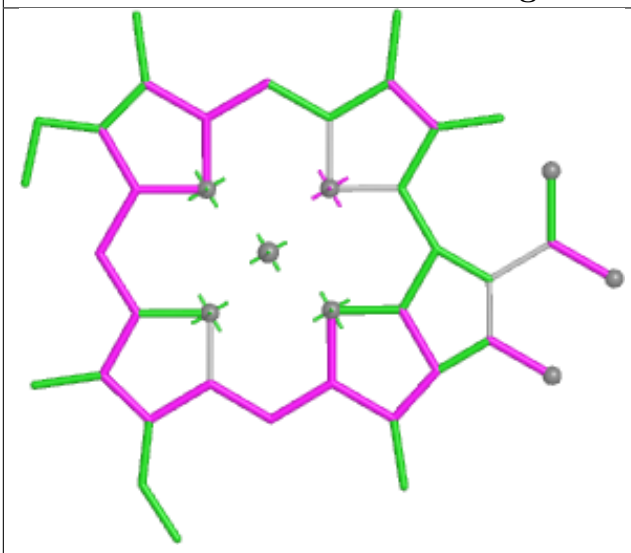


Torsions



Rings

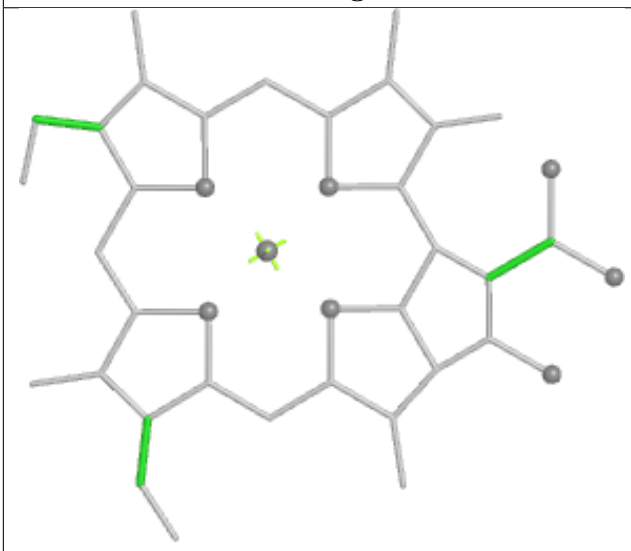
Ligand CLA 06 607



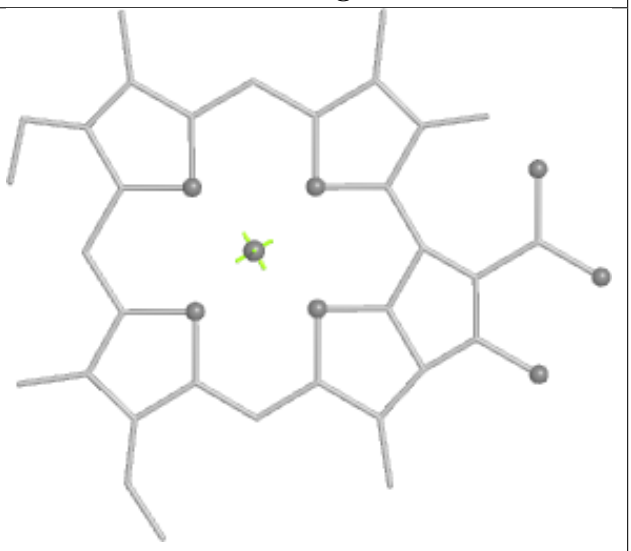
Bond lengths



Bond angles

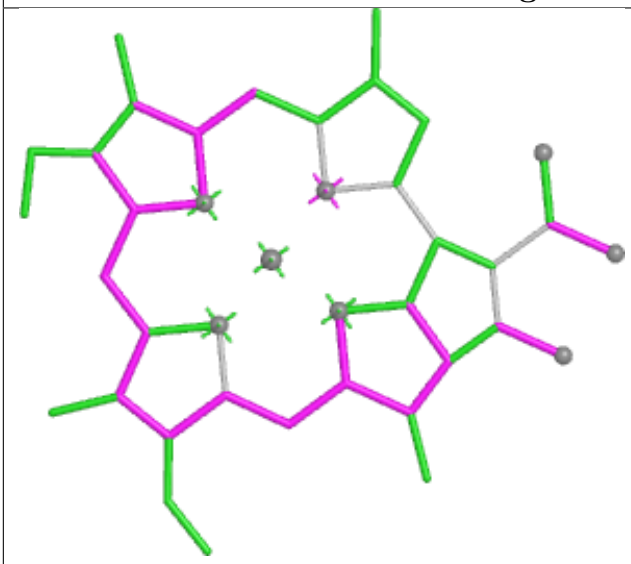


Torsions

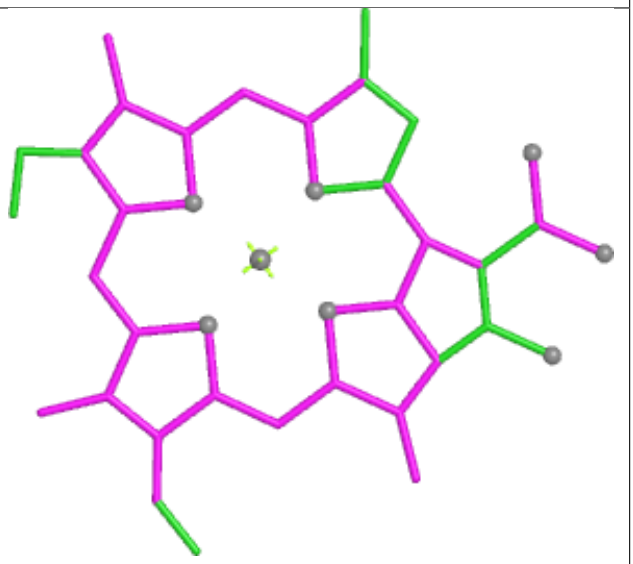


Rings

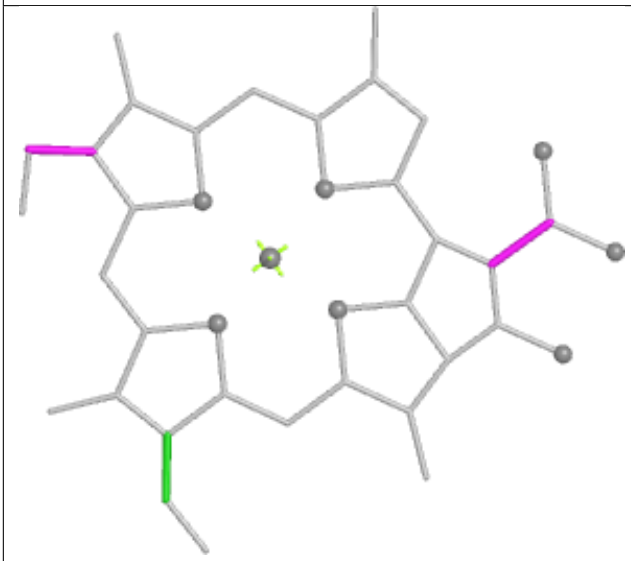
Ligand CLA 07 310



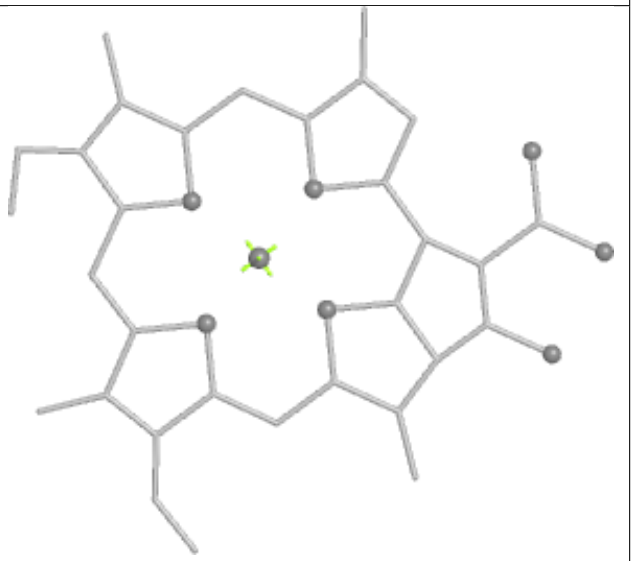
Bond lengths



Bond angles

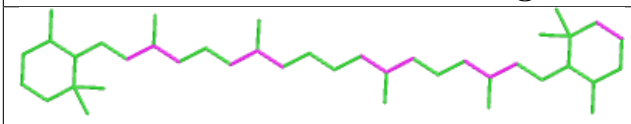


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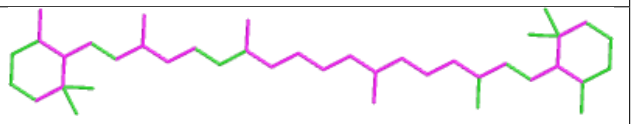


Rings

Ligand BCR 1b 601



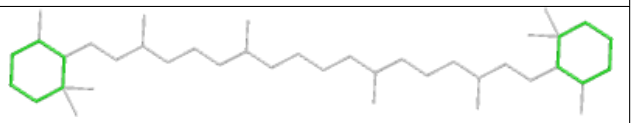
Bond lengths



Bond angles

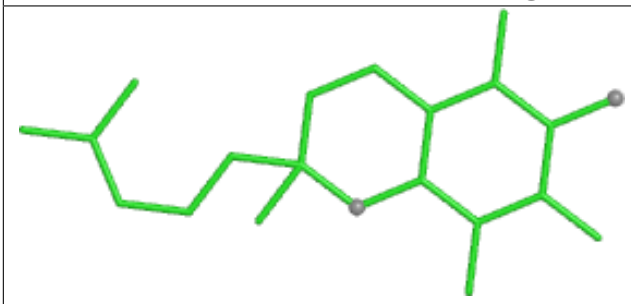


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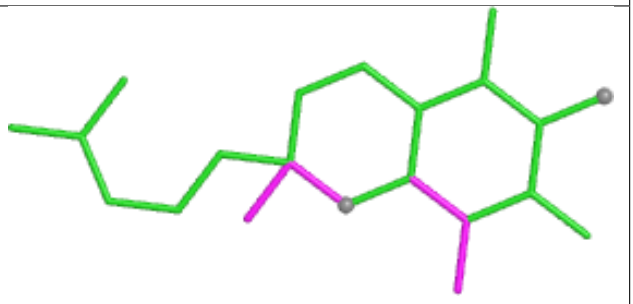


Rings

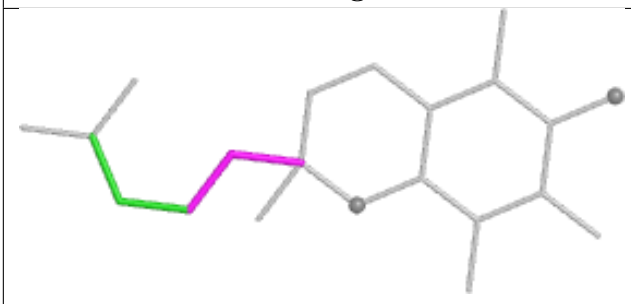
Ligand VIV 00 315



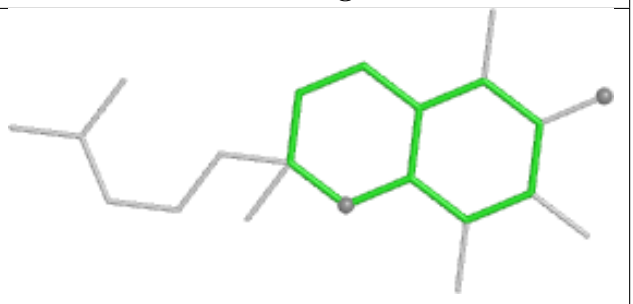
Bond lengths



Bond angles

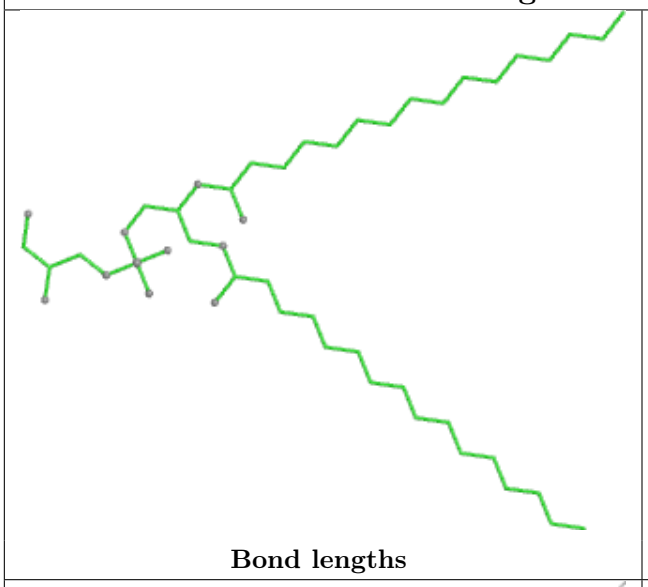


Torsions

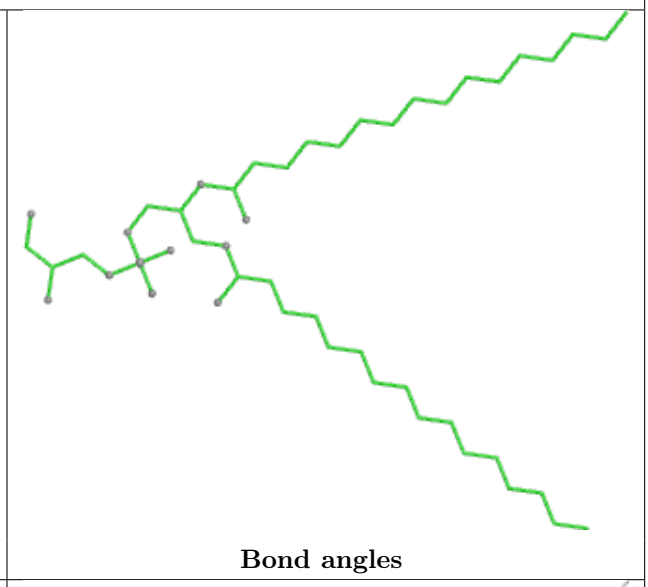


Rings

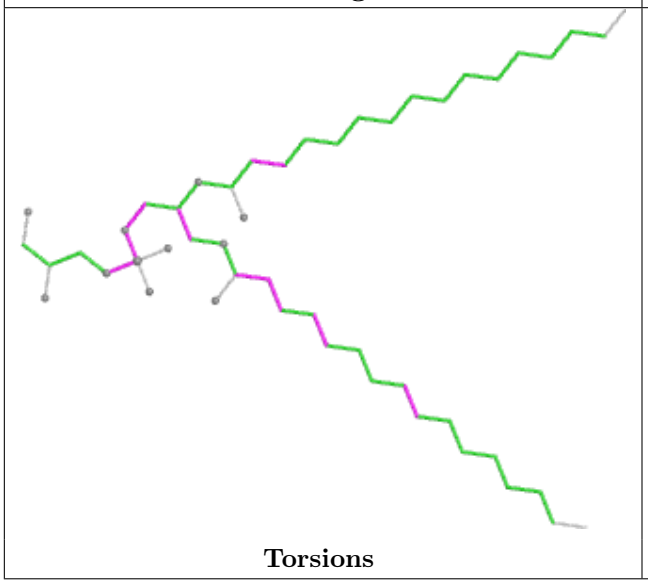
Ligand LHG 00 319



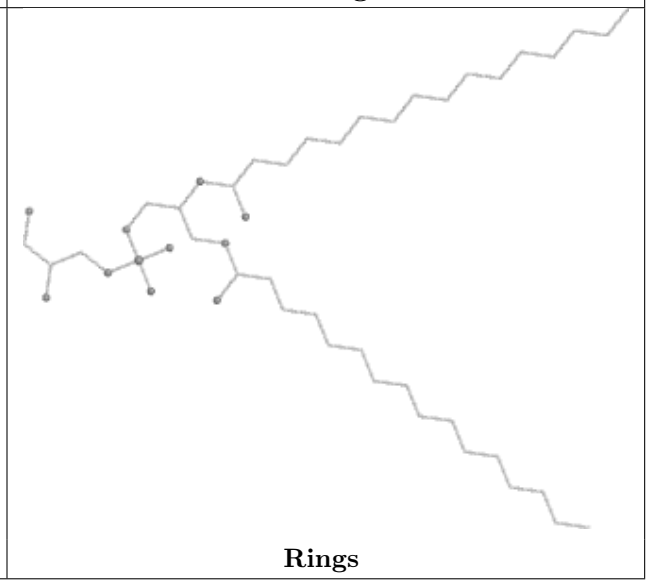
Bond lengths



Bond angles

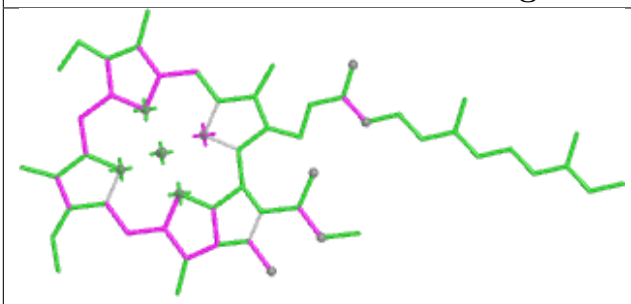


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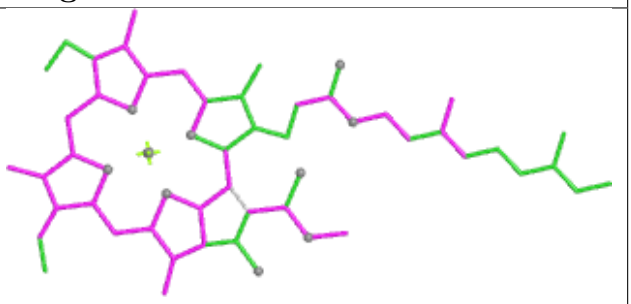


Rings

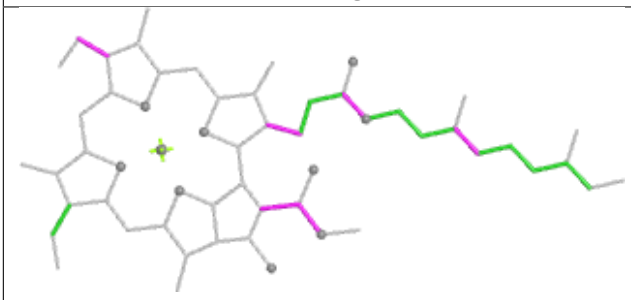
Ligand CLA 1g 610



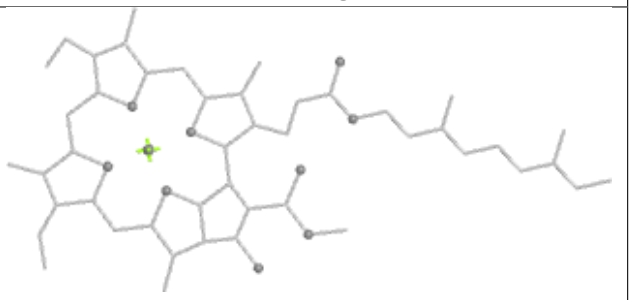
Bond lengths



Bond angles

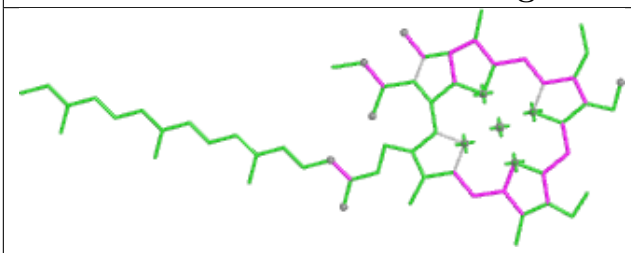


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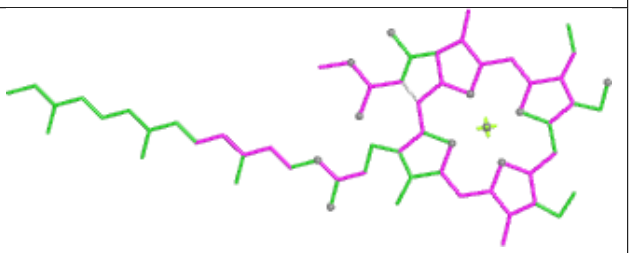


Rings

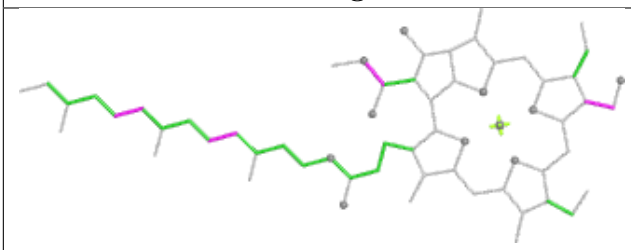
Ligand CHL 1n 601



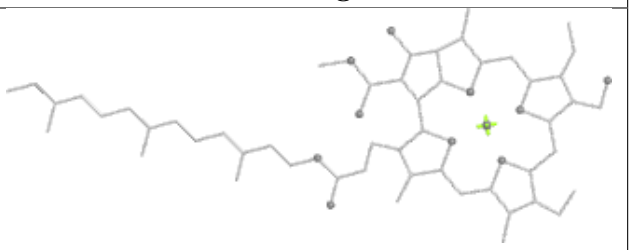
Bond lengths



Bond angles

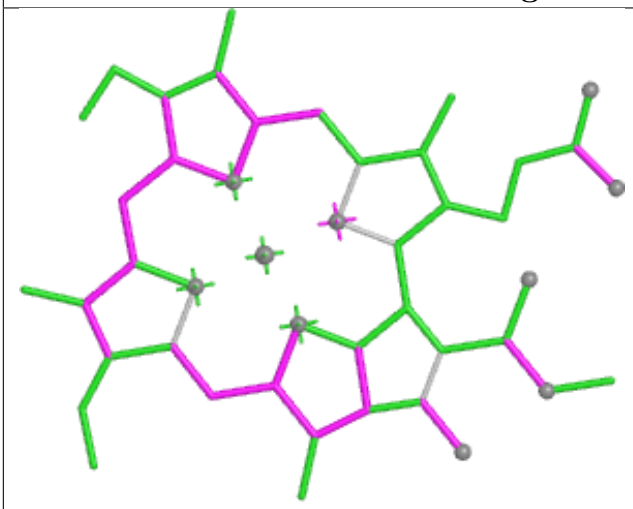


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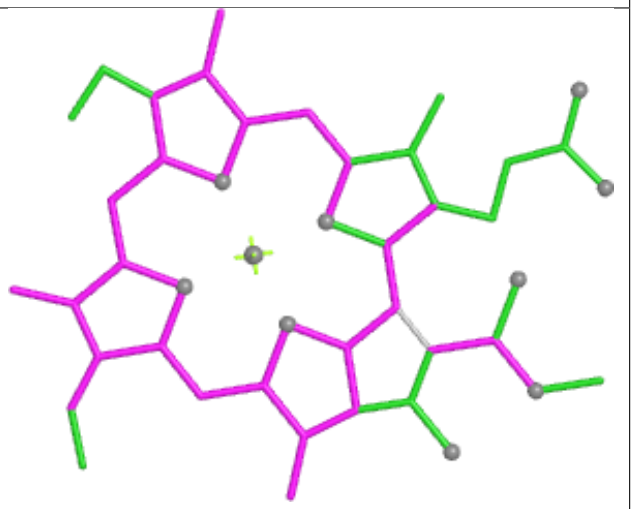


Rings

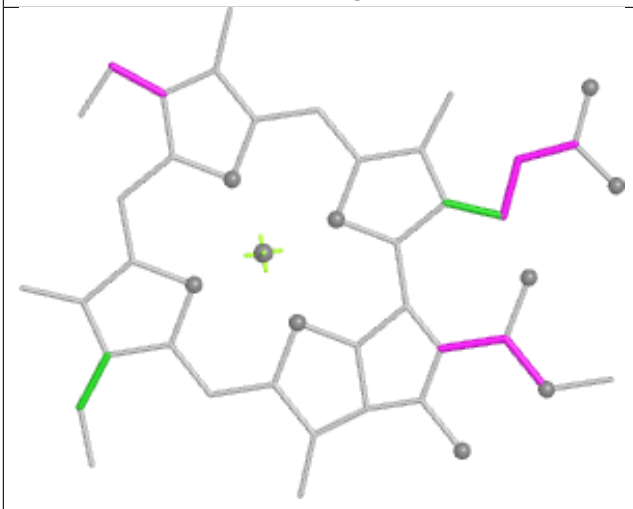
Ligand CLA 1s 305



Bond lengths



Bond angles

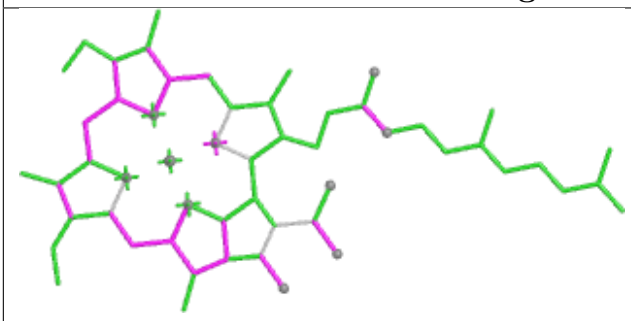


Torsions

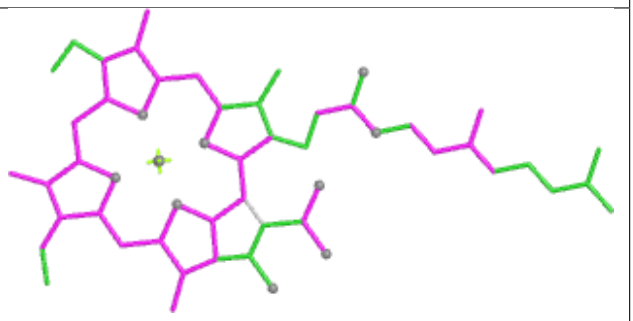


Rings

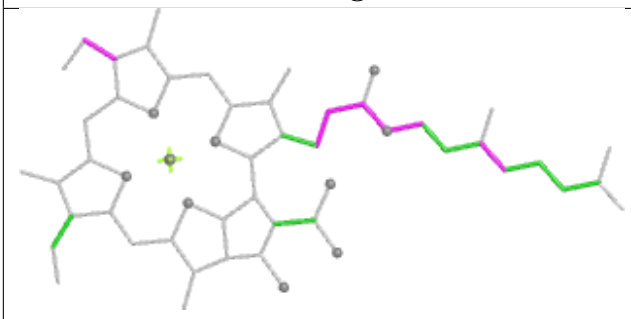
Ligand CLA 1S 313



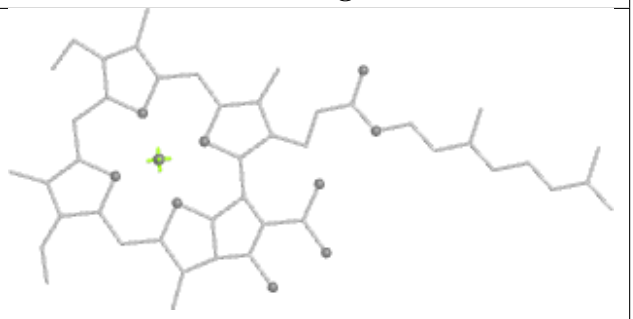
Bond lengths



Bond angles

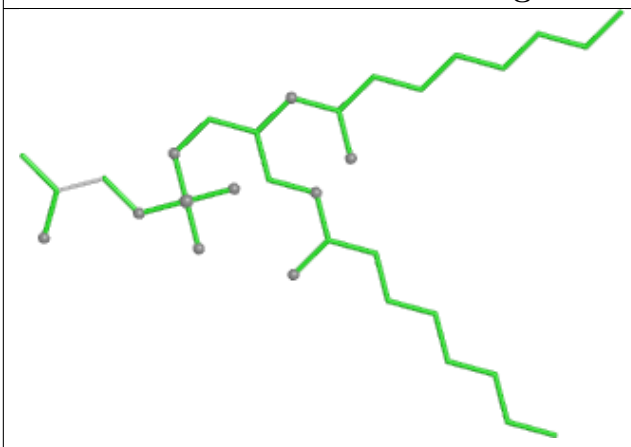


Torsions

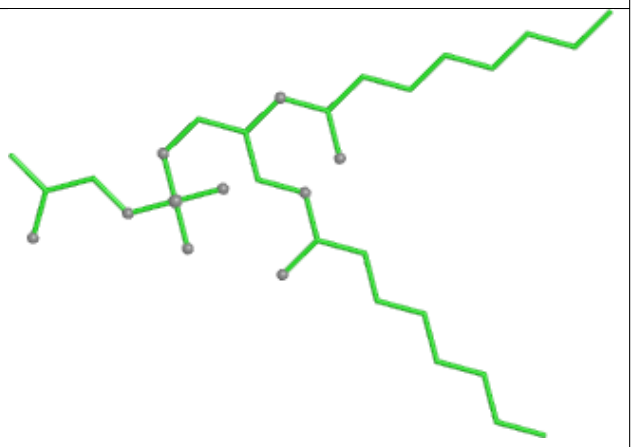


Rings

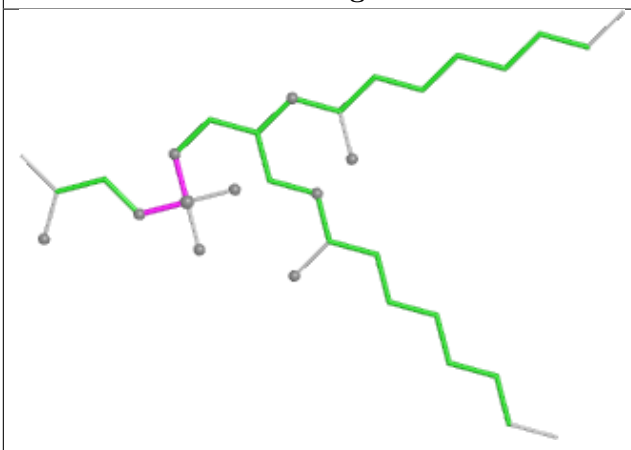
Ligand LHG 1C 520



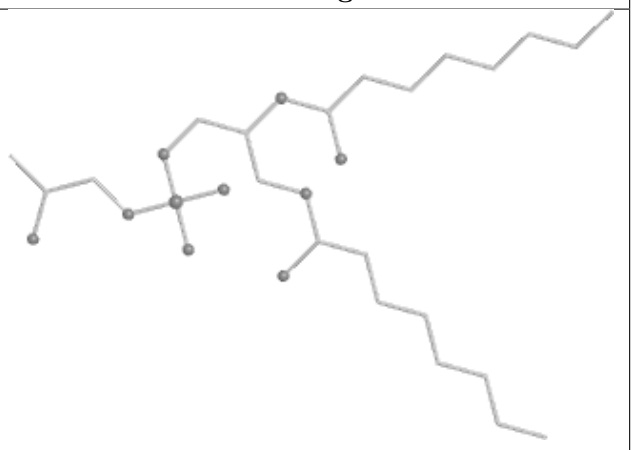
Bond lengths



Bond angles

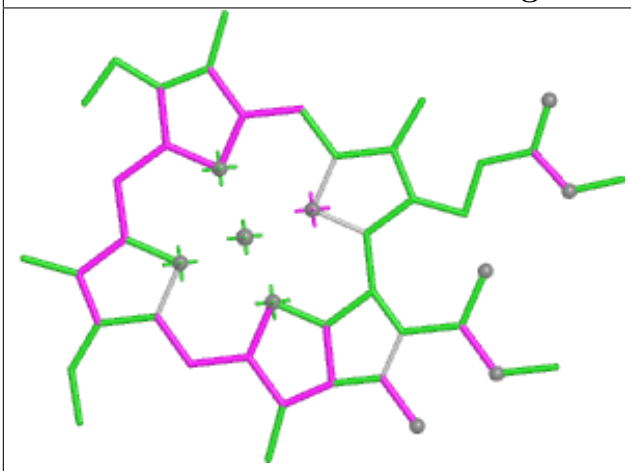


Torsions

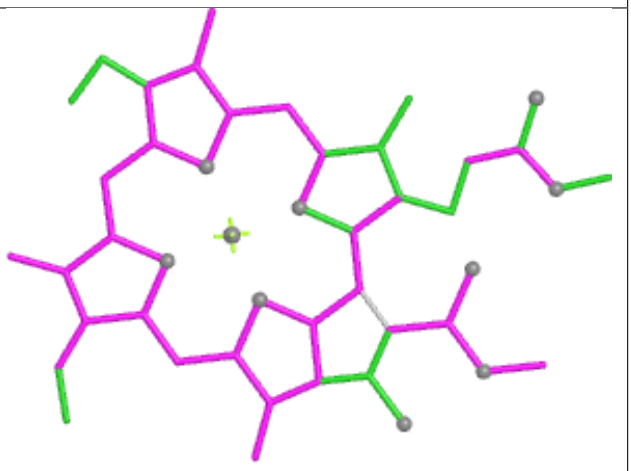


Rings

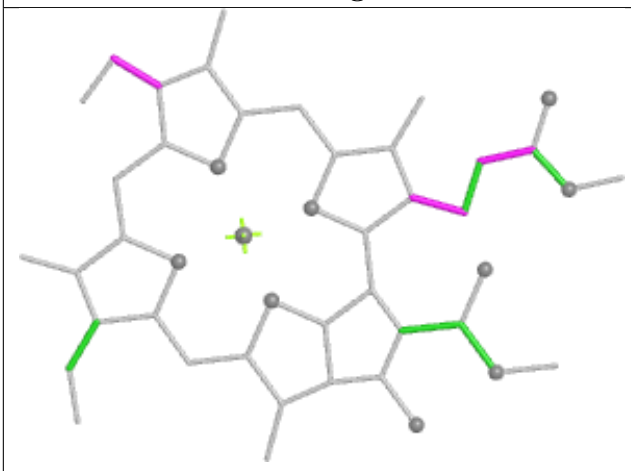
Ligand CLA 1r 304



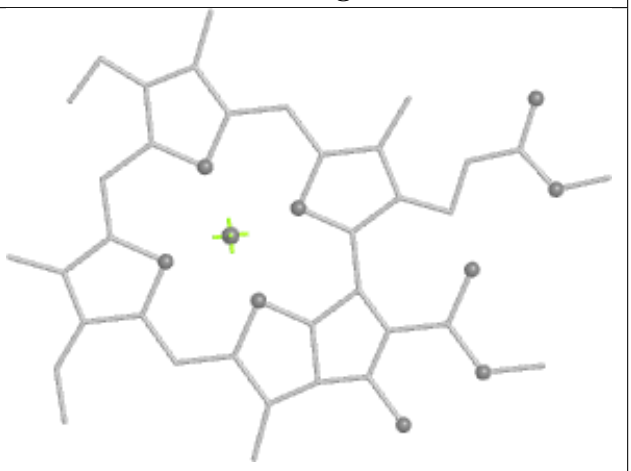
Bond lengths



Bond angles

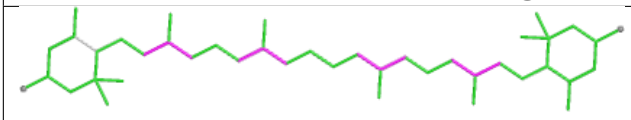


Torsions



Rings

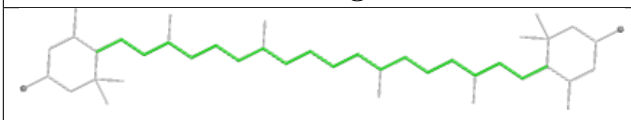
Ligand LUT 1S 317



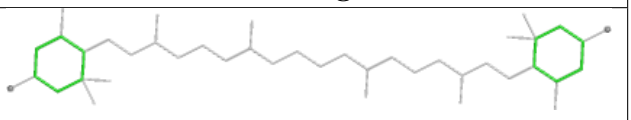
Bond lengths



Bond angles

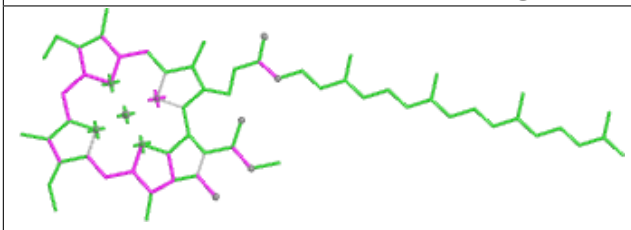


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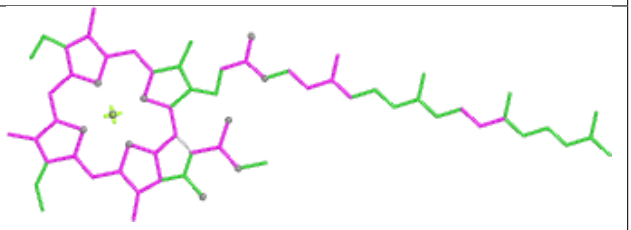


Rings

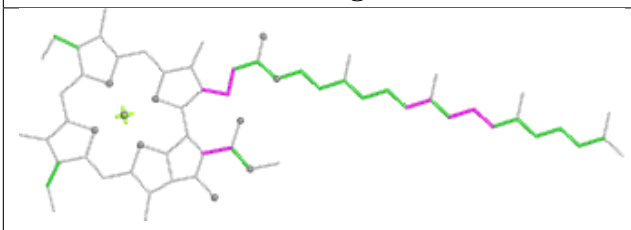
Ligand CLA 1D 401



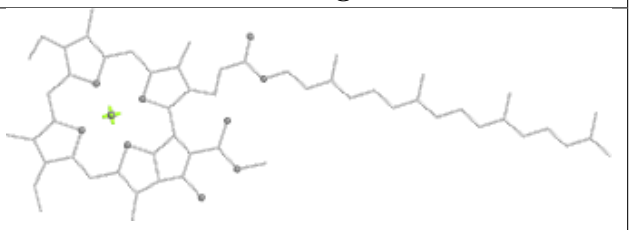
Bond lengths



Bond angles

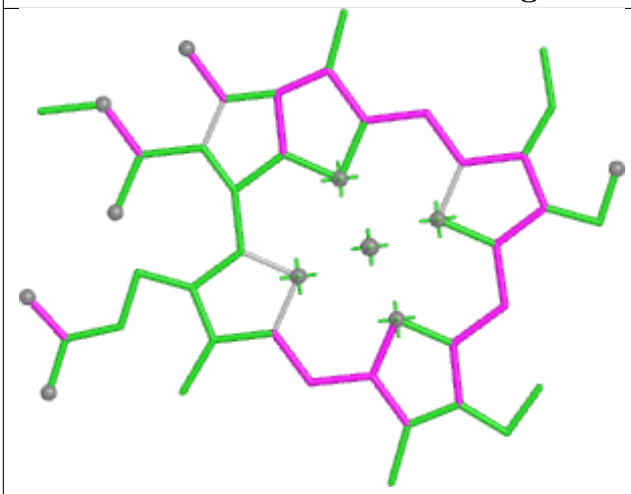


Torsions

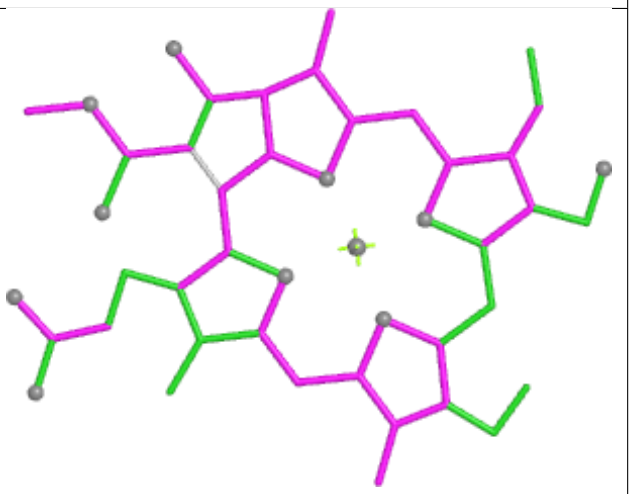


Rings

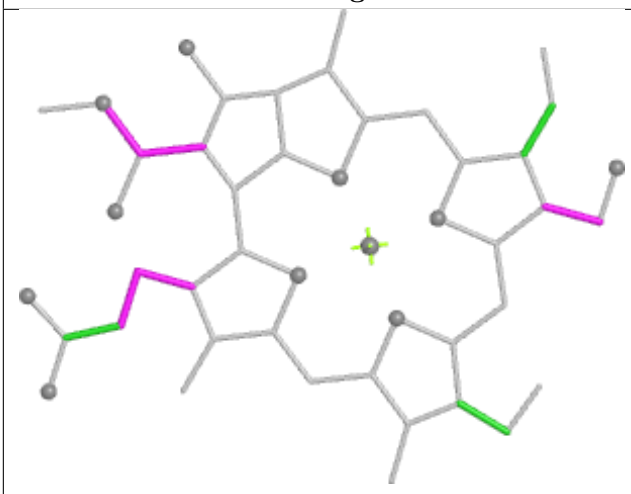
Ligand CHL 1r 306



Bond lengths



Bond angles

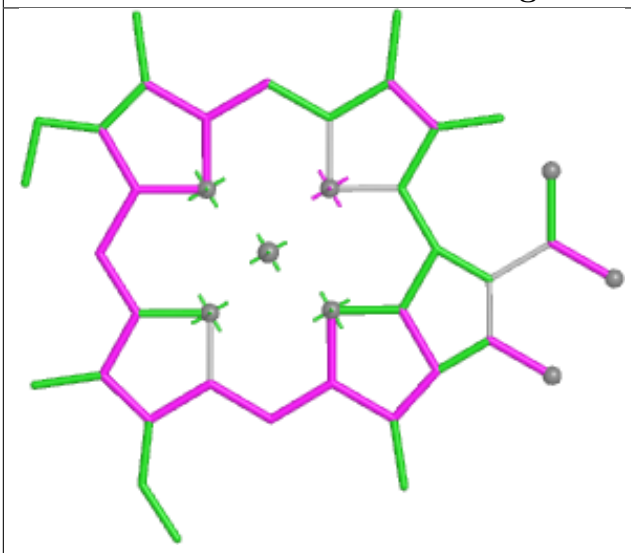


Torsions



Rings

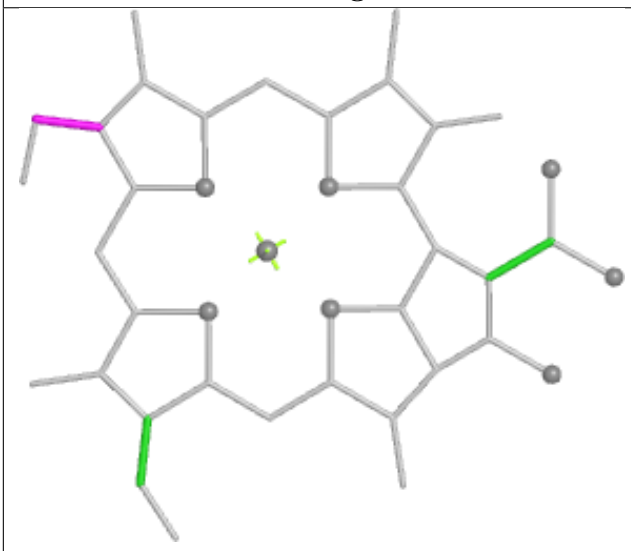
Ligand CLA 04 308



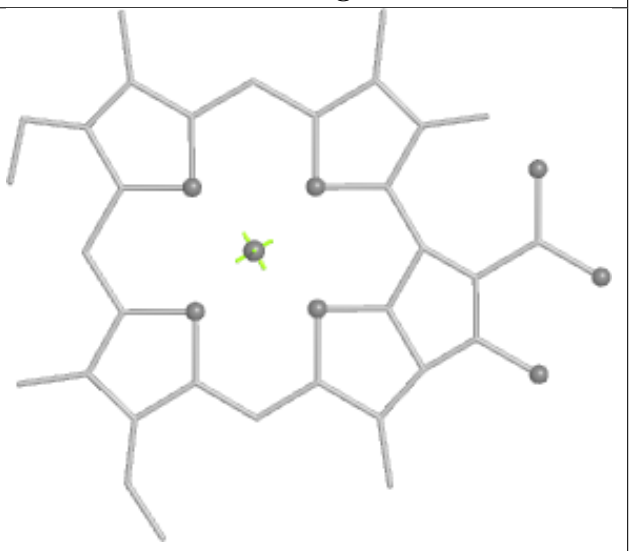
Bond lengths



Bond angles

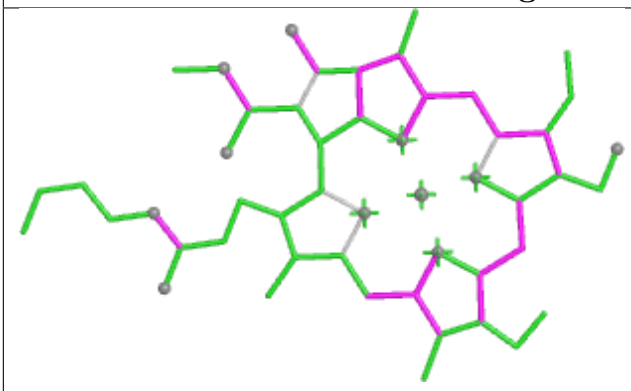


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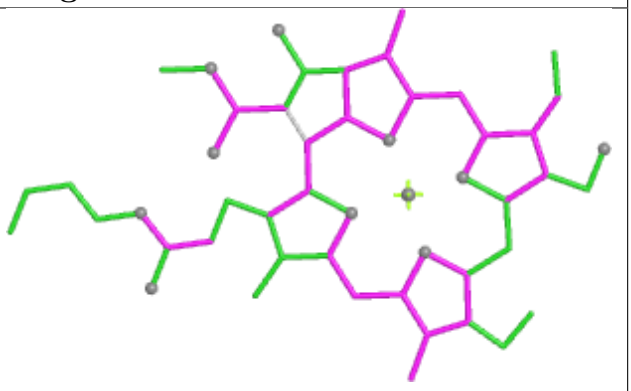


Rings

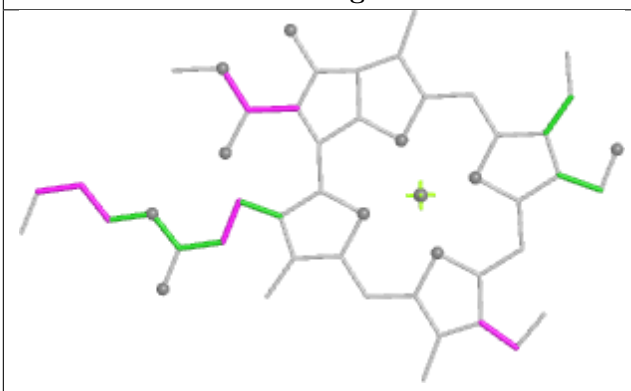
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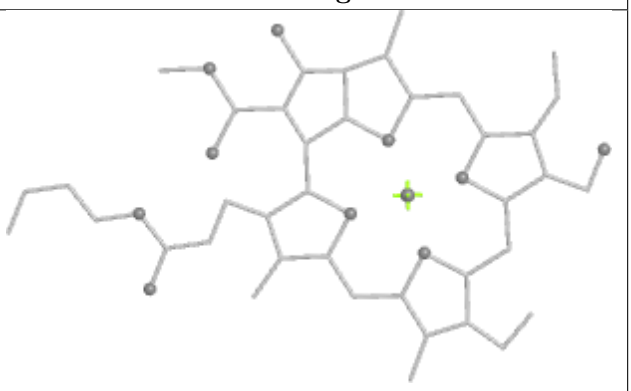
Bond lengths



Bond angles

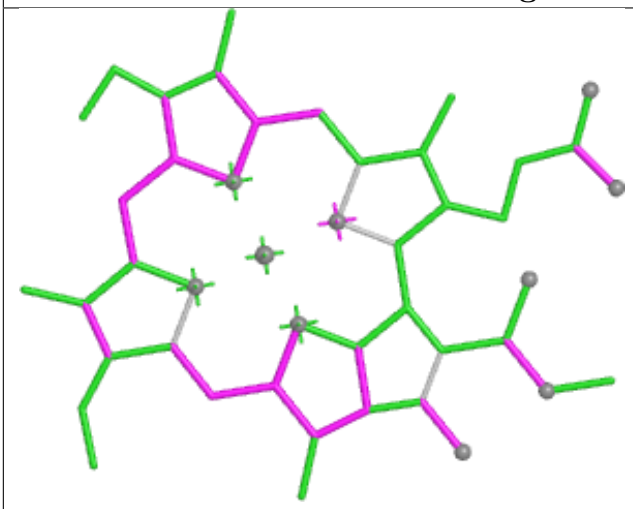


Torsions

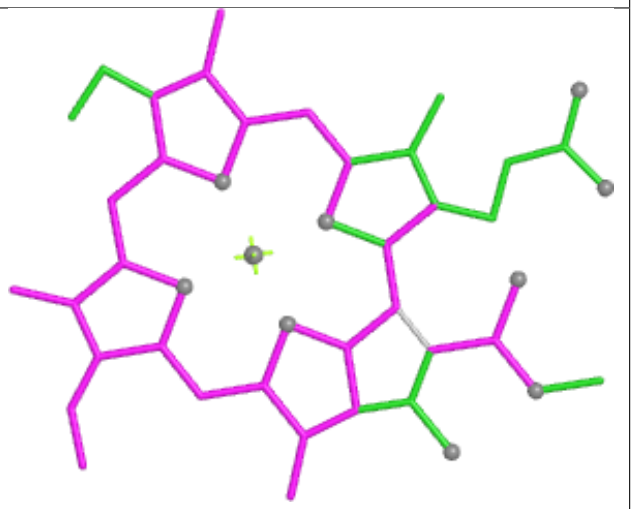


Rings

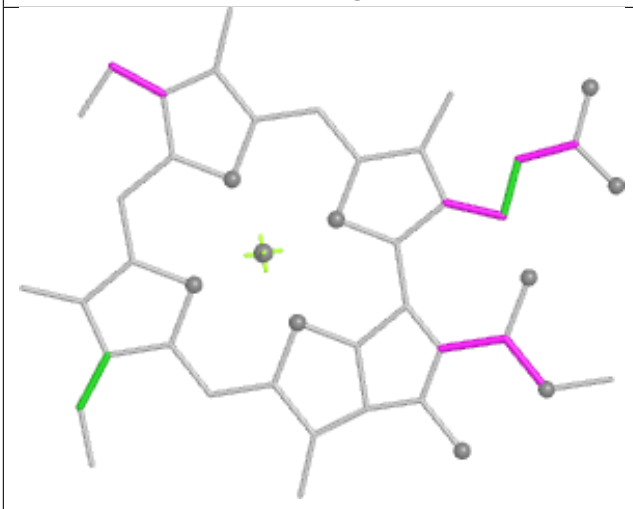
Ligand CLA 00 312



Bond lengths



Bond angles

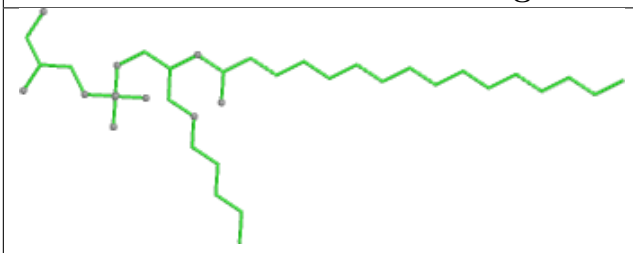


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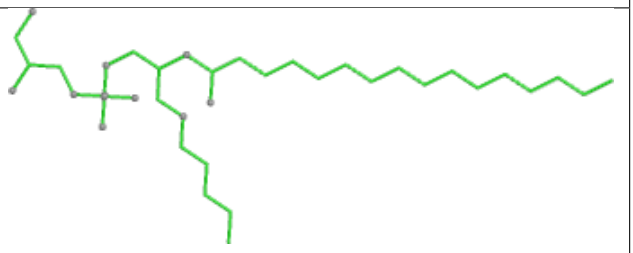


Rings

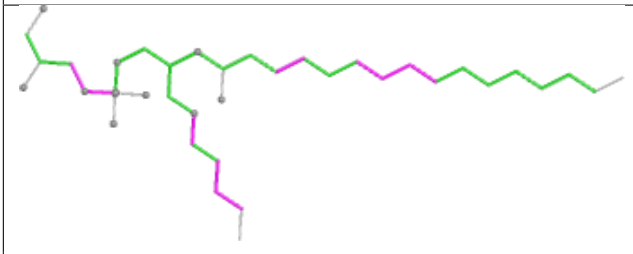
Ligand LHG 1w 104



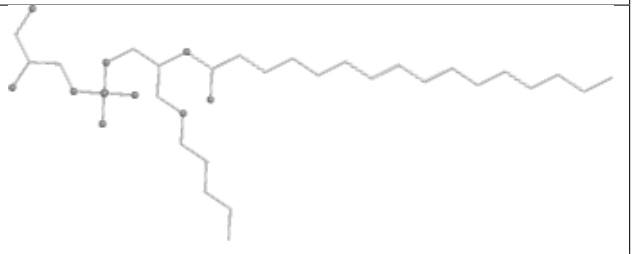
Bond lengths



Bond angles

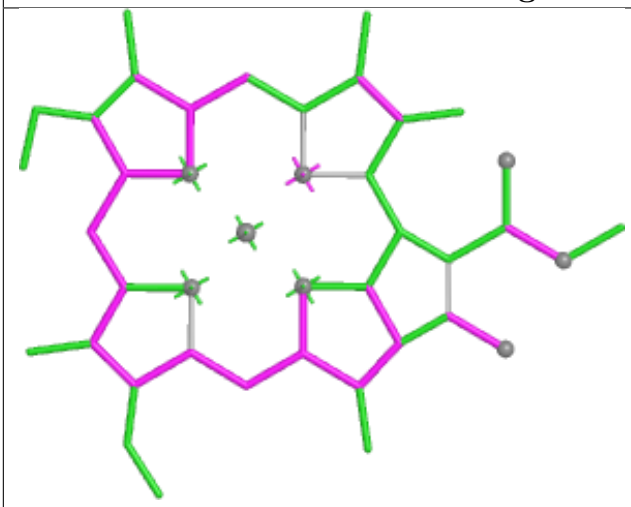


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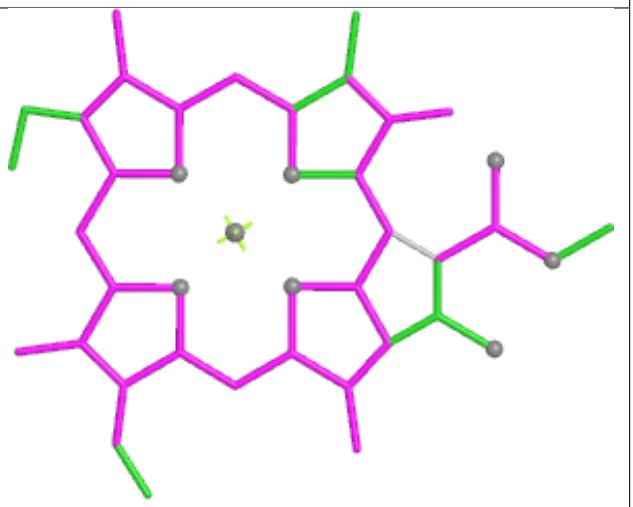


Rings

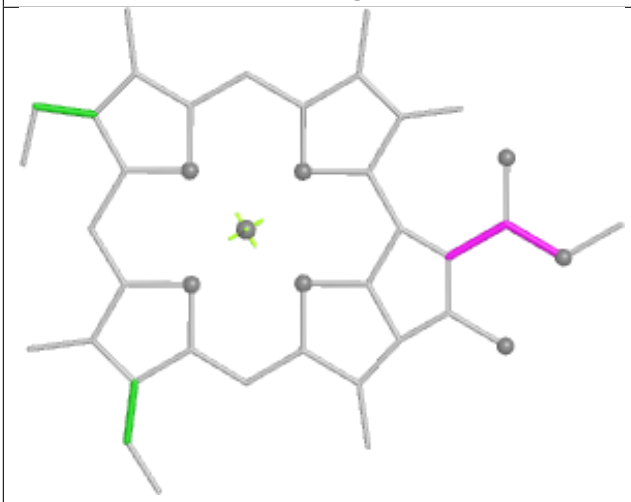
Ligand CLA 1n 614



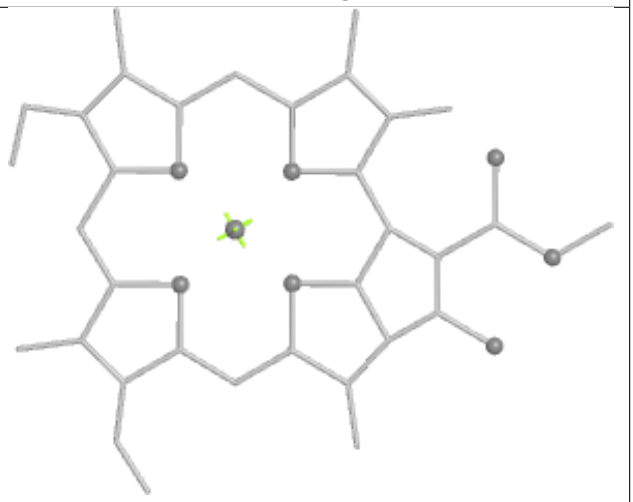
Bond lengths



Bond angles

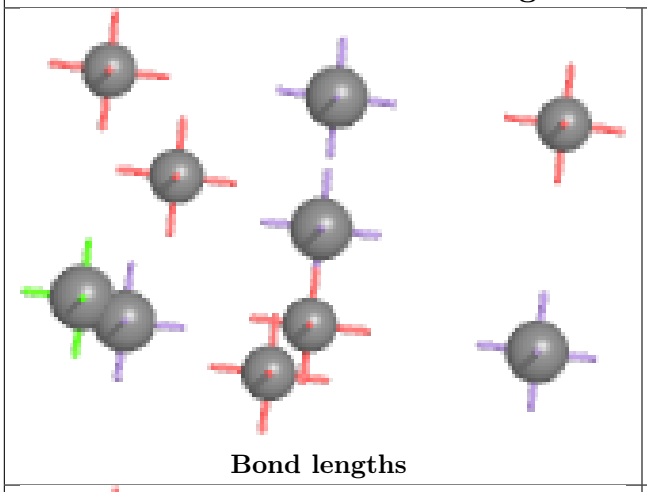


Torsions

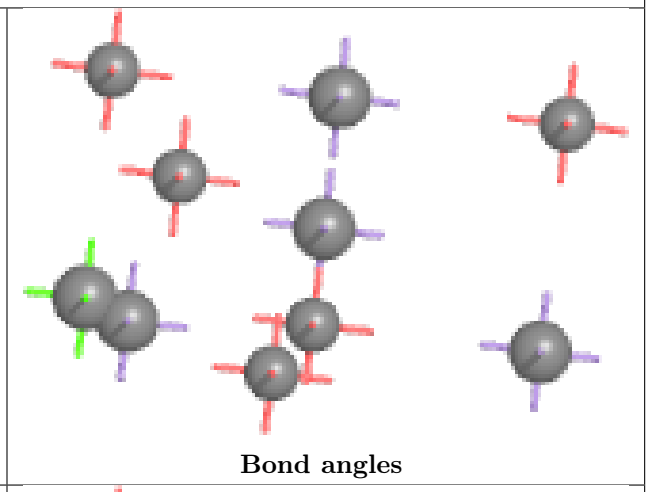


Rings

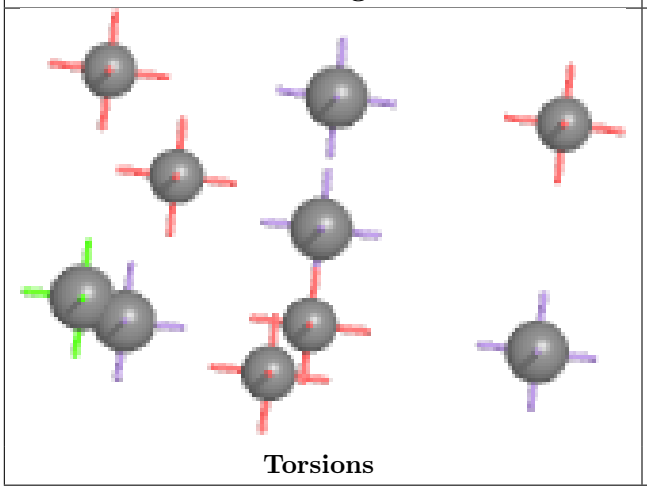
Ligand OEX 1a 402



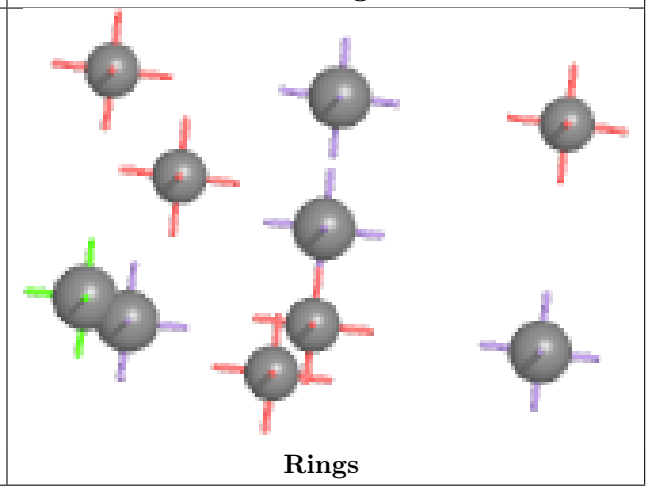
Bond lengths



Bond angles

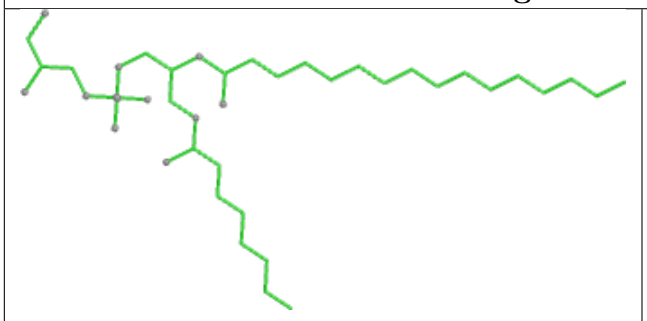


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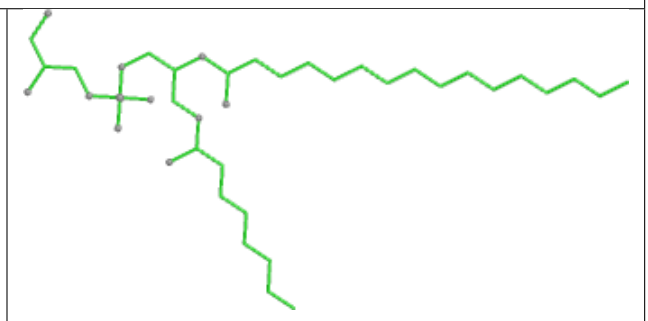


Rings

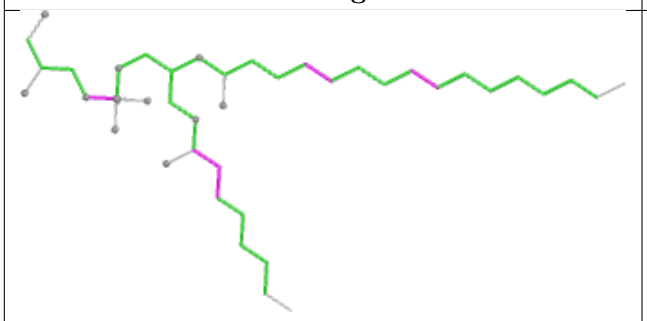
Ligand LHG 1G 618



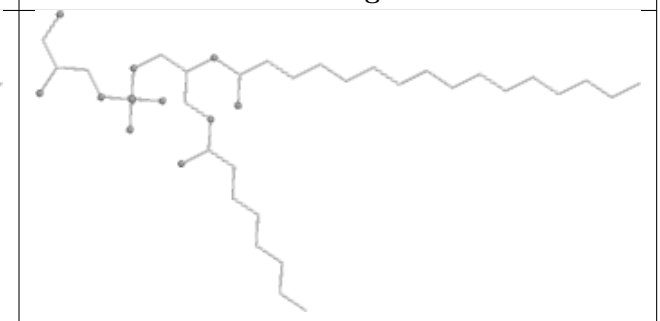
Bond lengths



Bond angles

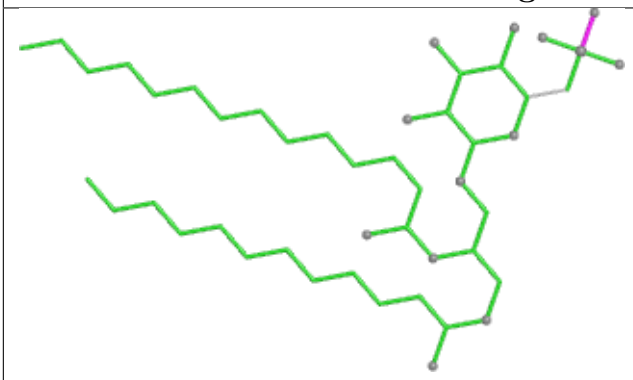


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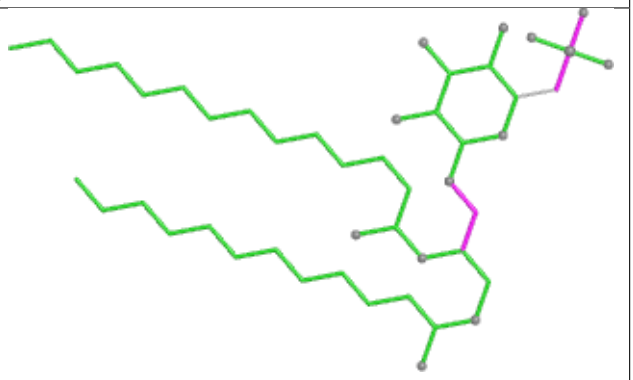


Rings

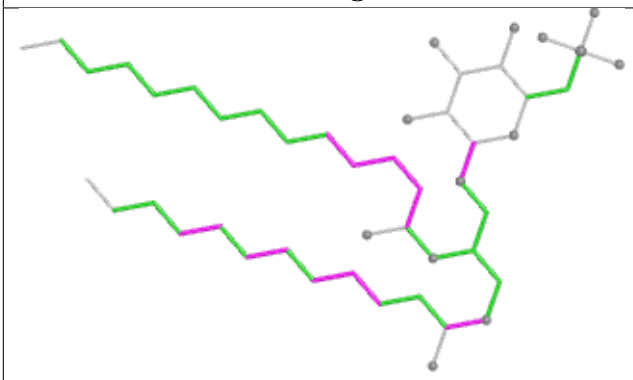
Ligand SQD 1b 622



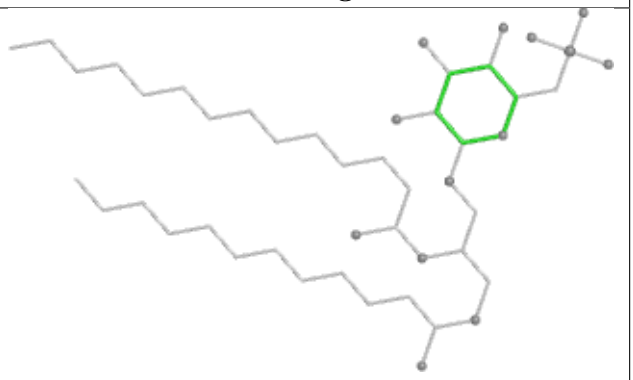
Bond lengths



Bond angles

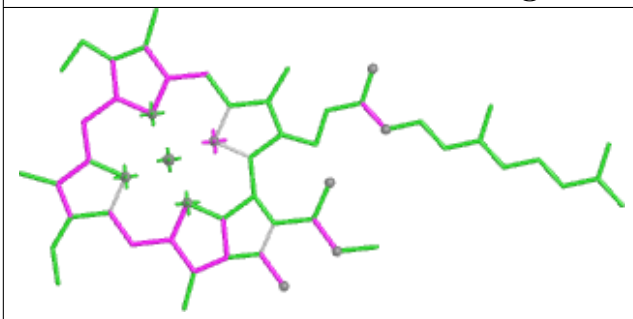


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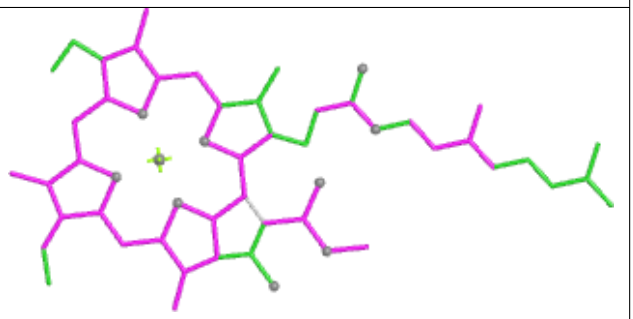


Rings

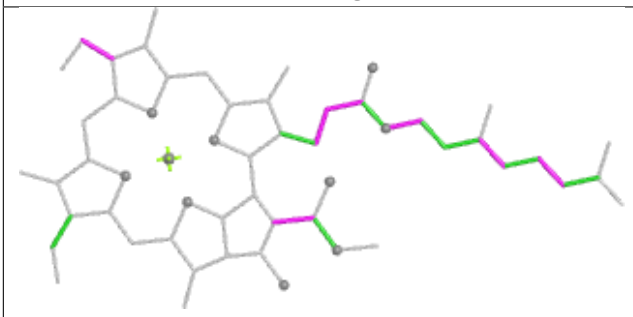
Ligand CLA 1s 315



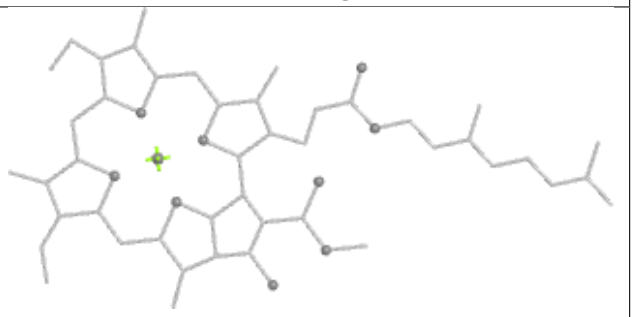
Bond lengths



Bond angles

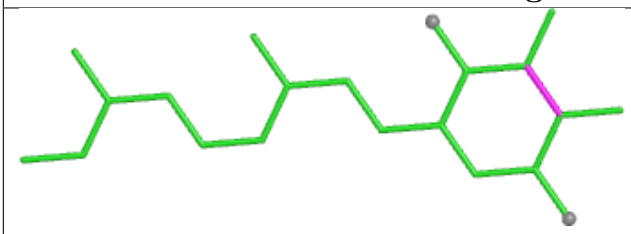


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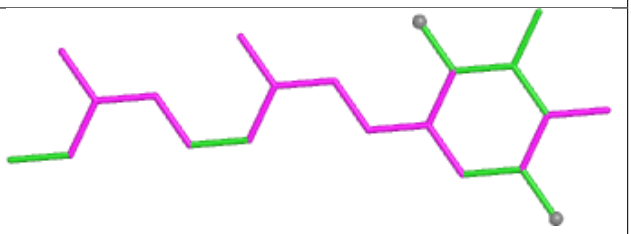


Rings

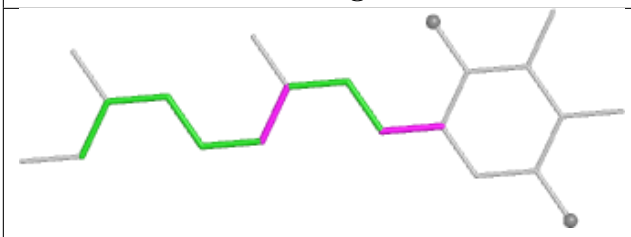
Ligand PL9 1e 101



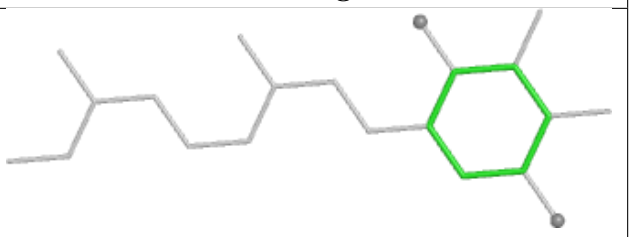
Bond lengths



Bond angles

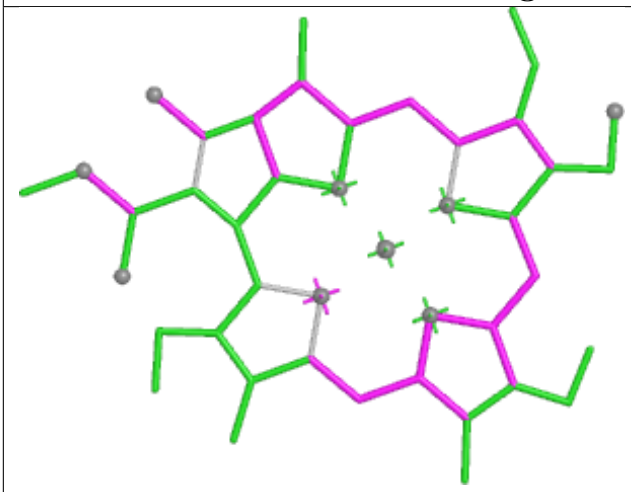


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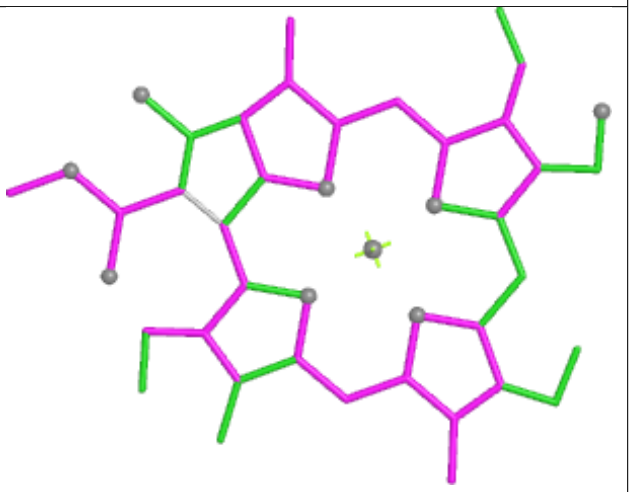


Rings

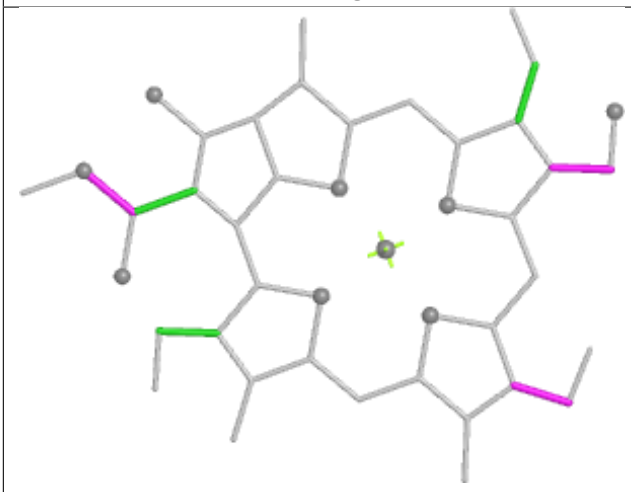
Ligand CHL 03 304



Bond lengths



Bond angles

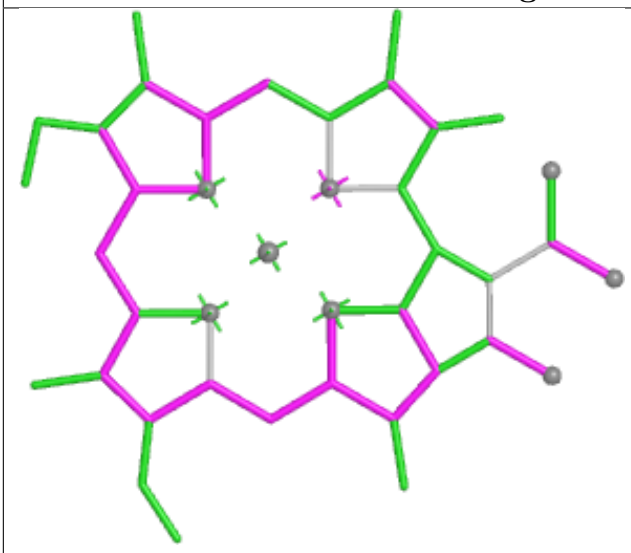


Torsions

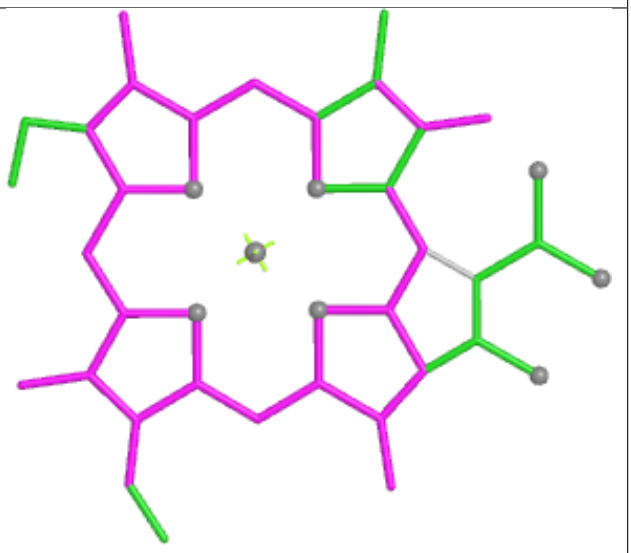


Rings

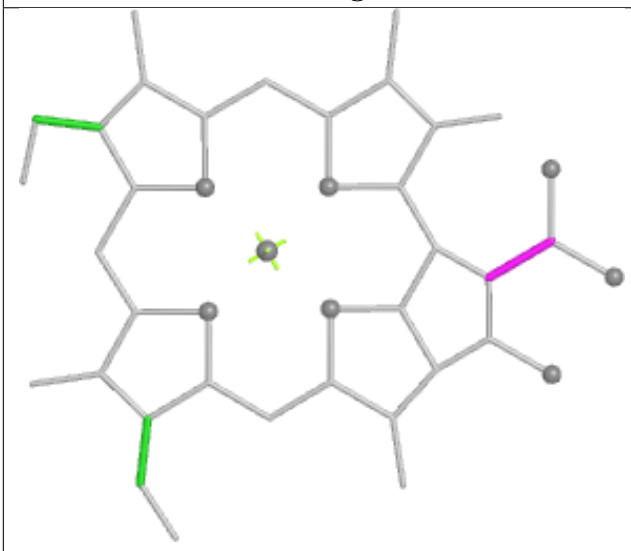
Ligand CLA 05 309



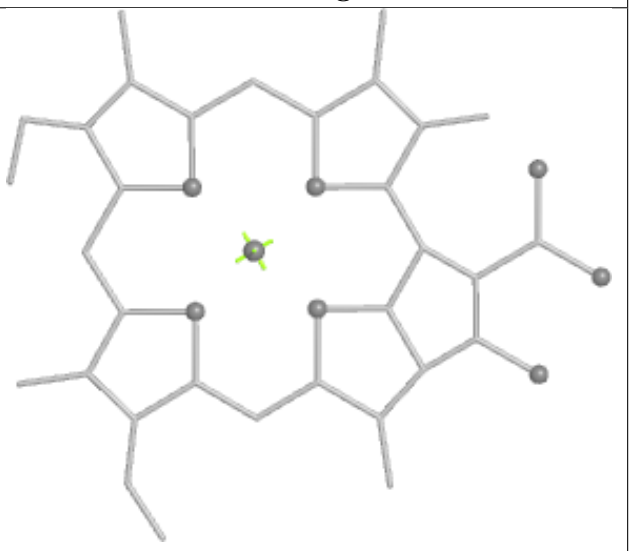
Bond lengths



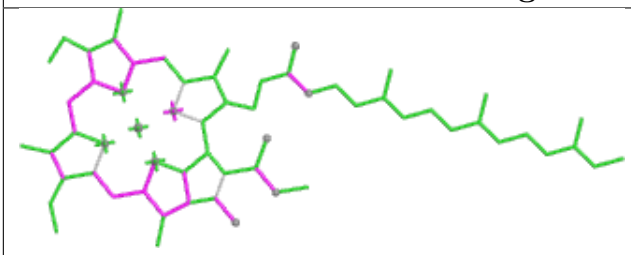
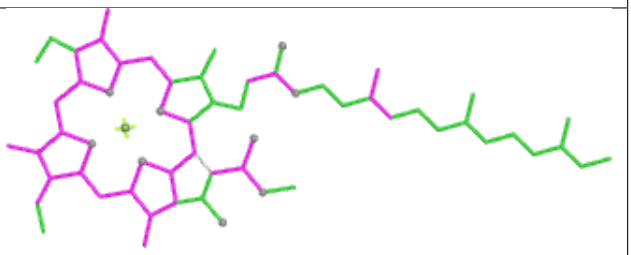
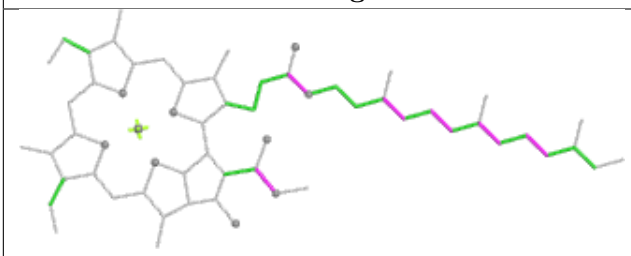
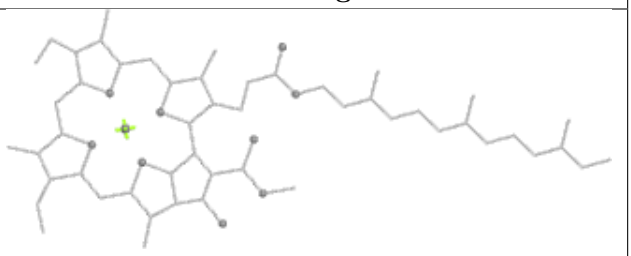
Bond angles

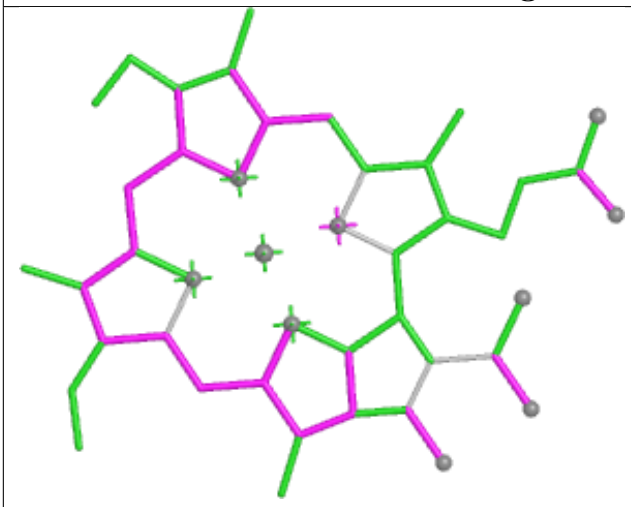
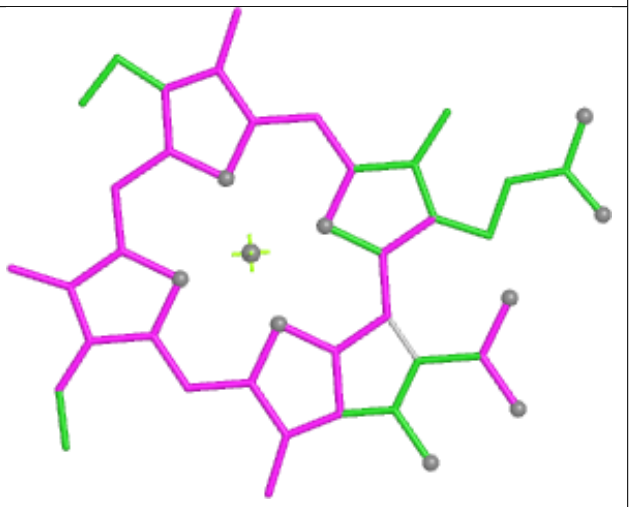
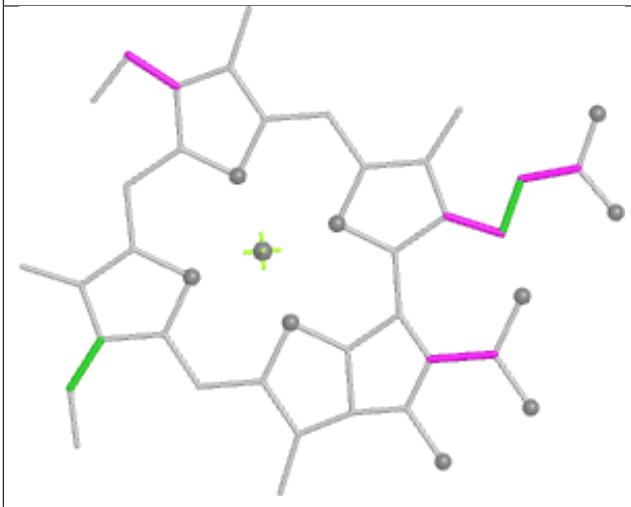
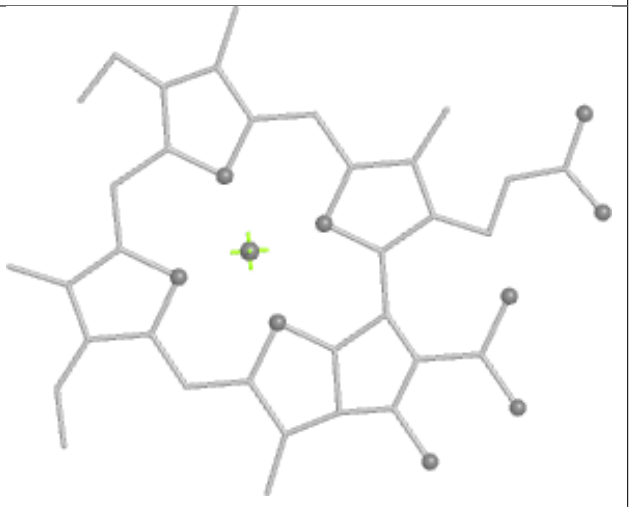


Torsions

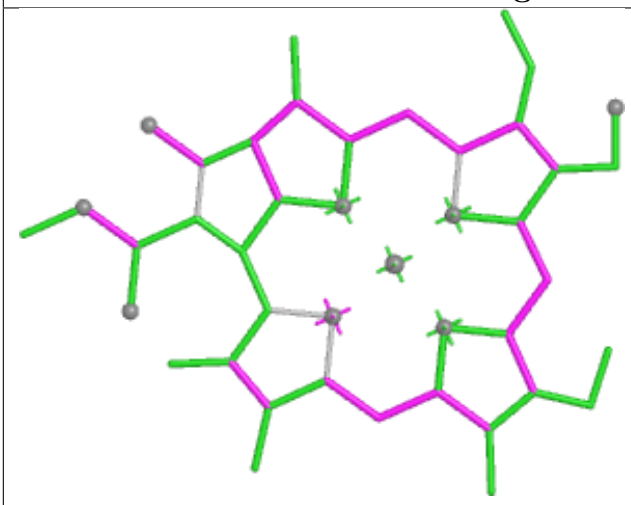


Rings

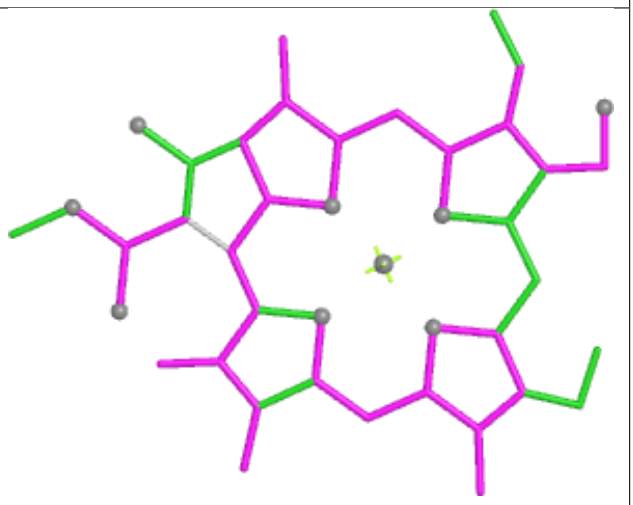
Ligand CLA 1b 616	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 02 614	
 Bond lengths	 Bond angles
 Torsions	 Rings

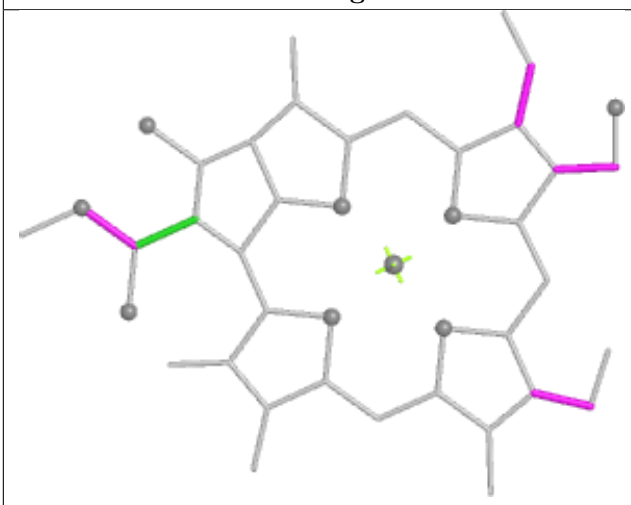
Ligand CHL 1G 609



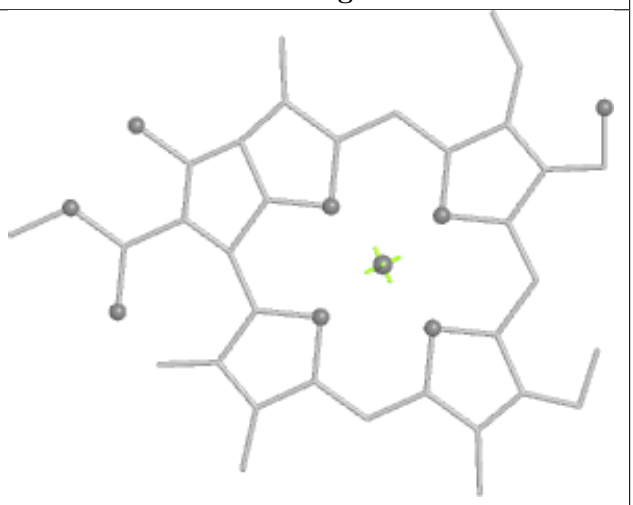
Bond lengths



Bond angles

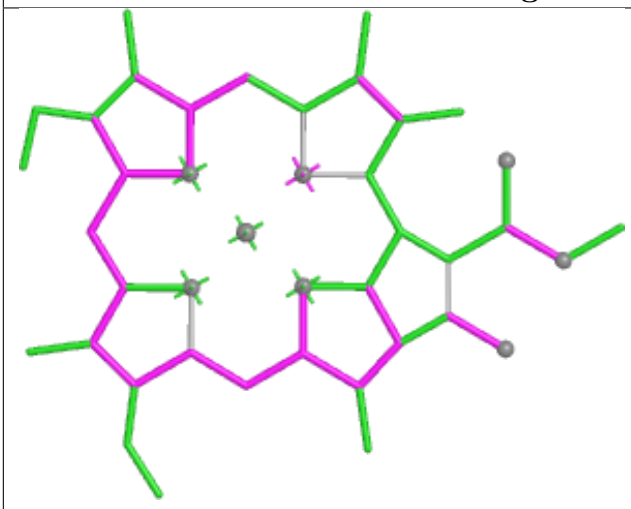


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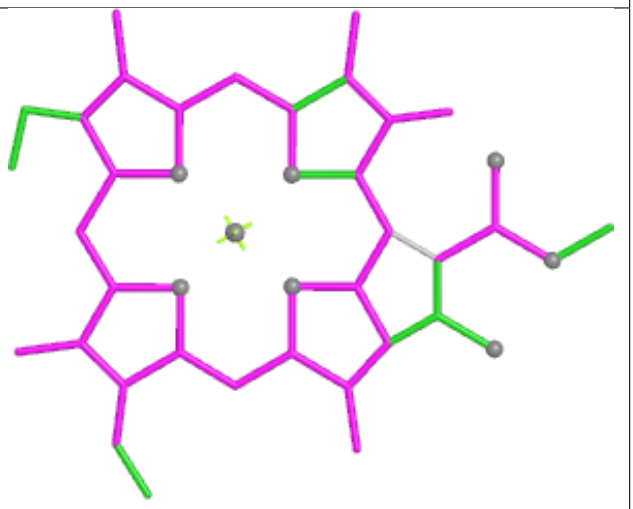


Rings

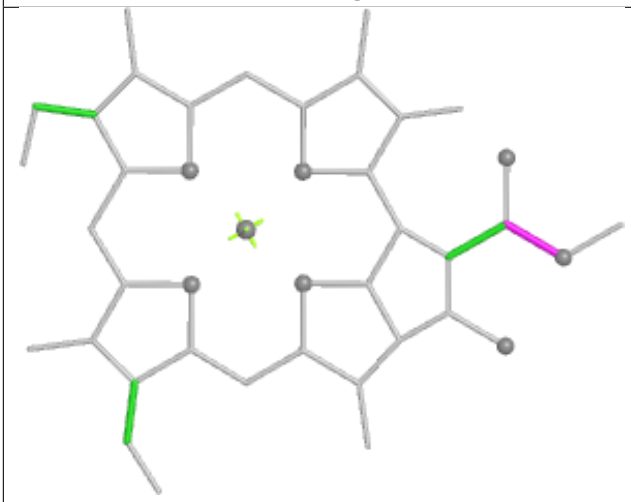
Ligand CLA 1s 313



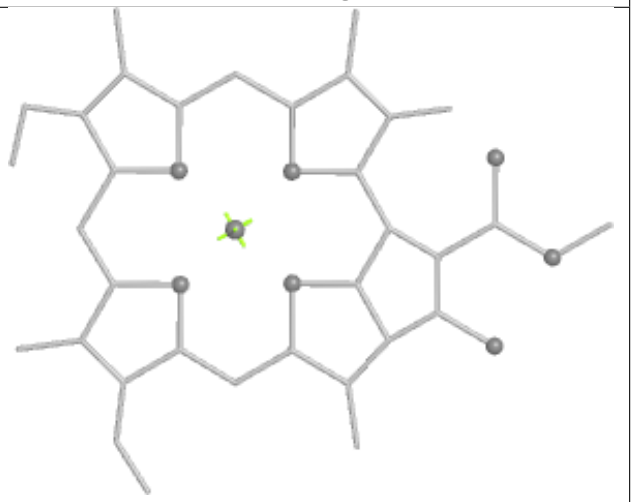
Bond lengths



Bond angles

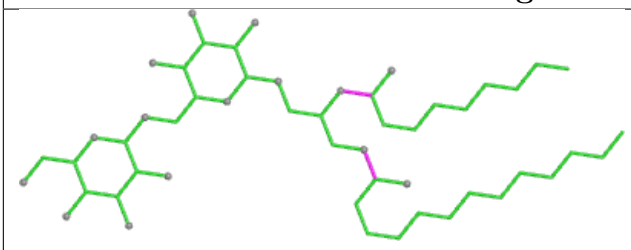


Torsions

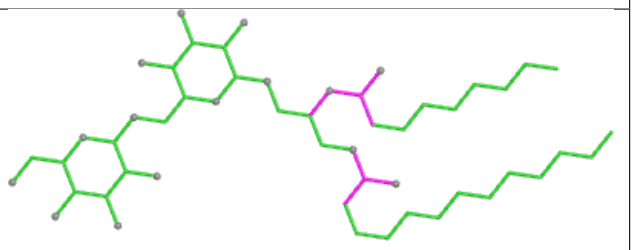


Rings

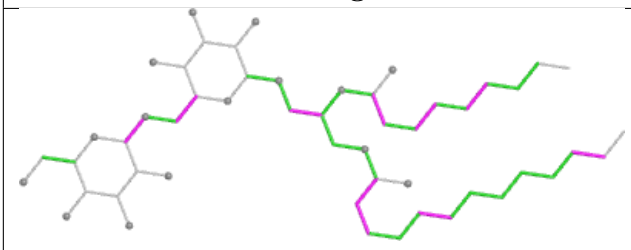
Ligand DGD 1c 519



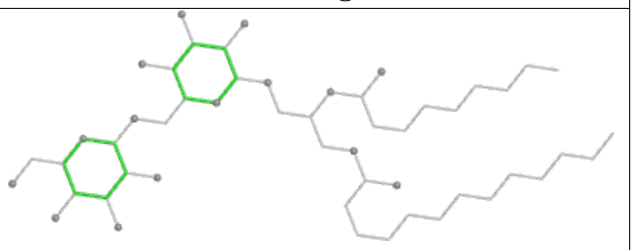
Bond lengths



Bond angles

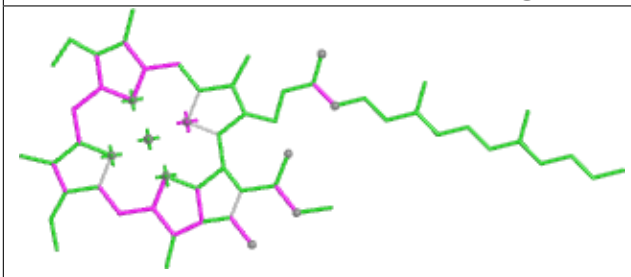


Torsions

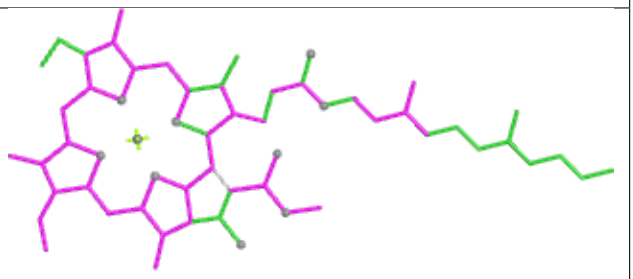


Rings

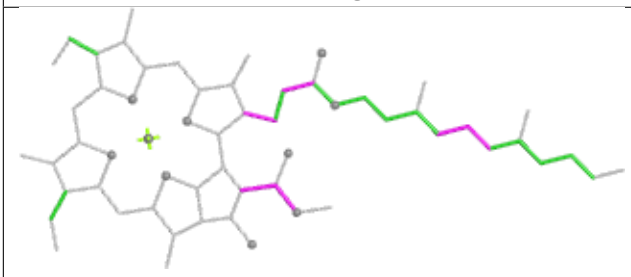
Ligand CLA 1b 606



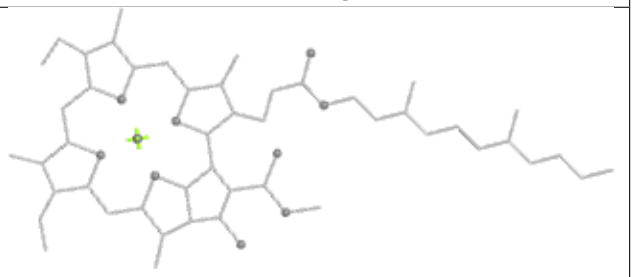
Bond lengths



Bond angles

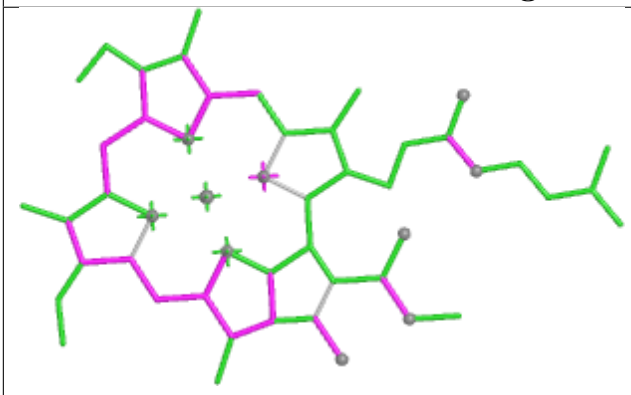


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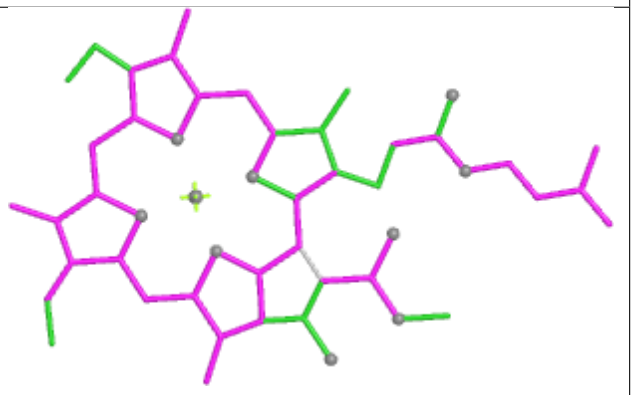


Rings

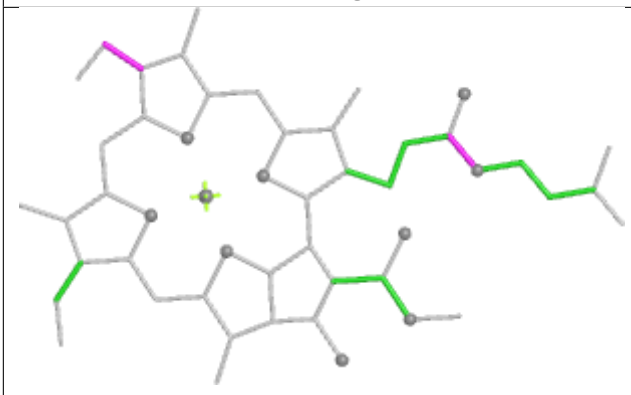
Ligand CLA 00 303



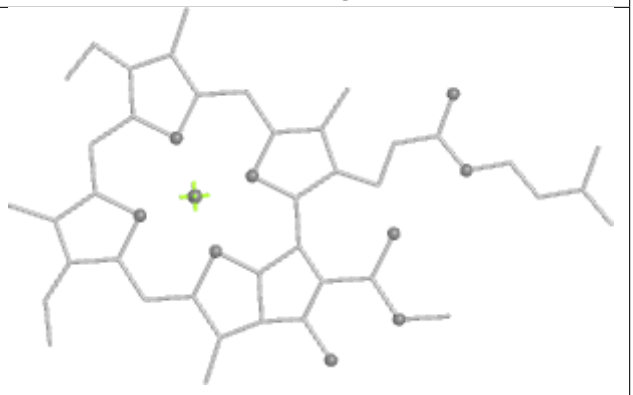
Bond lengths



Bond angles

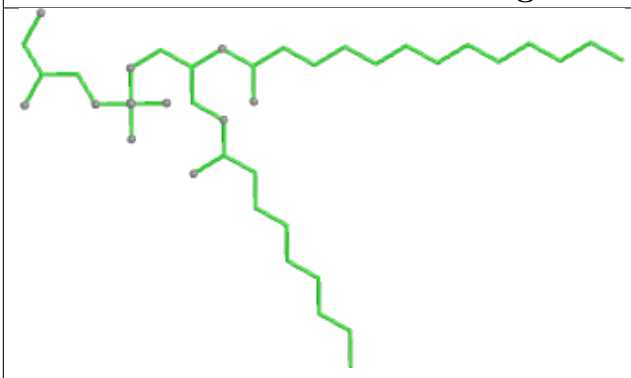


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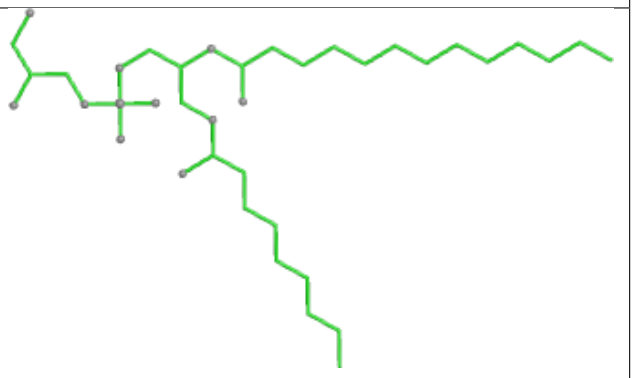


Rings

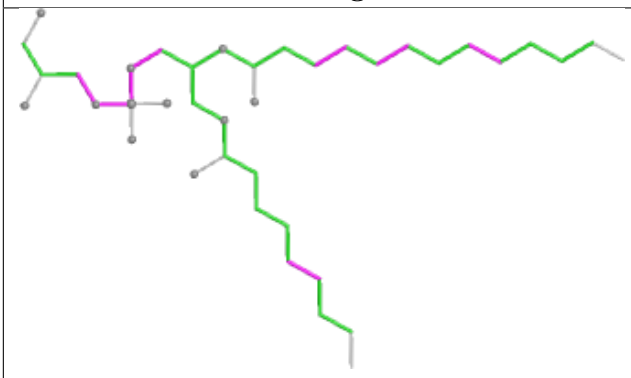
Ligand LHG 1d 401



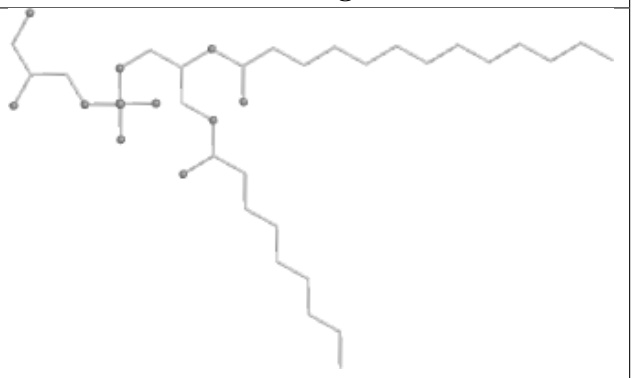
Bond lengths



Bond angles

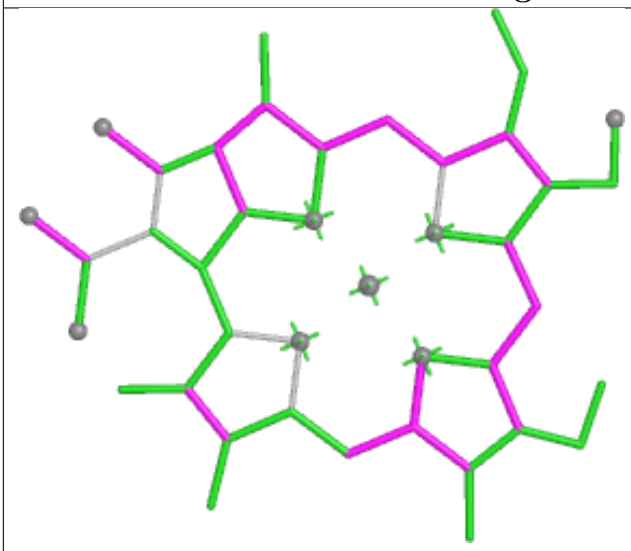


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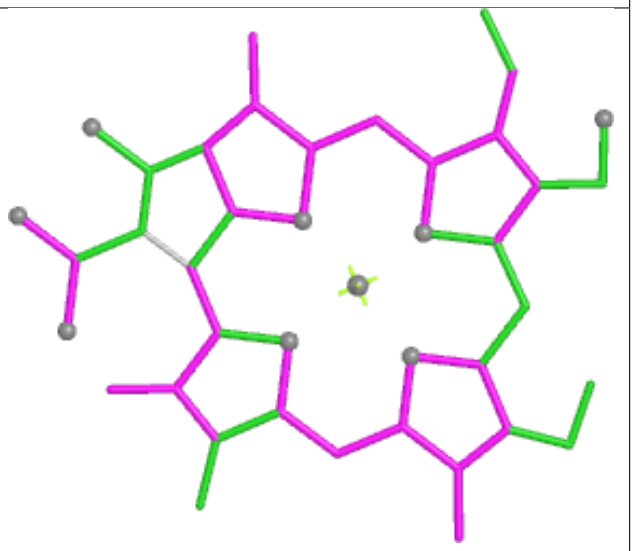


Rings

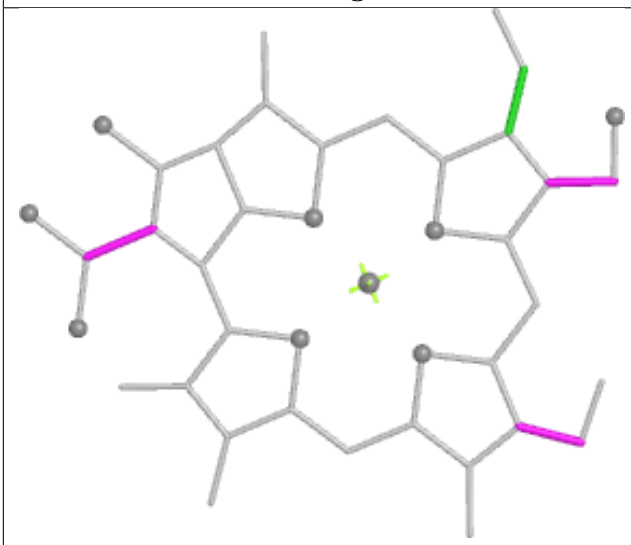
Ligand CHL 1R 305



Bond lengths



Bond angles

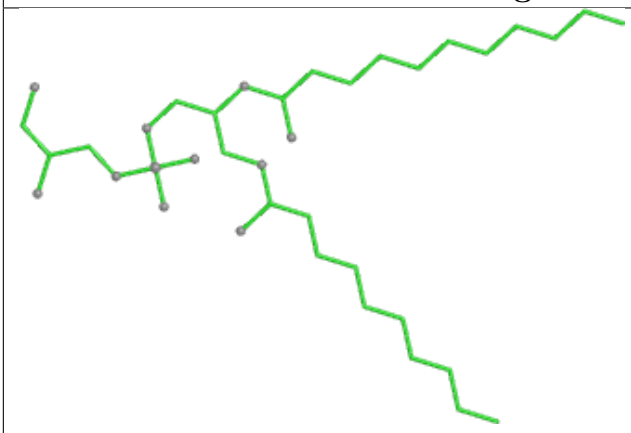


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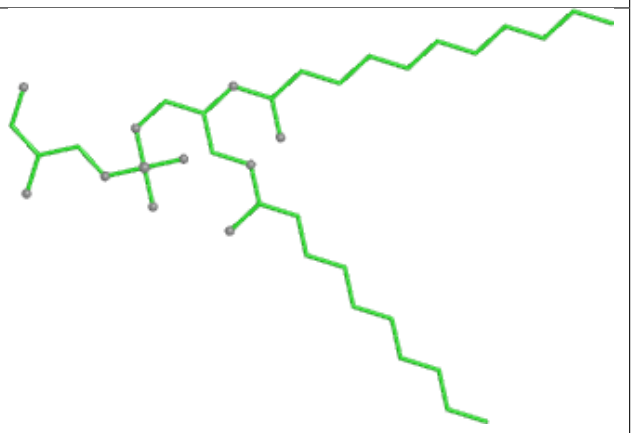


Rings

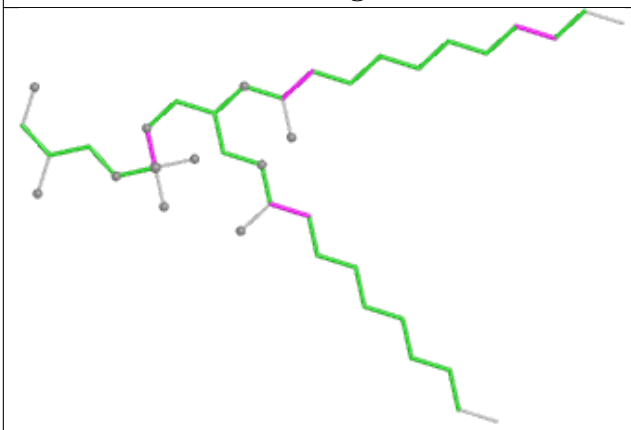
Ligand LHG 1B 621



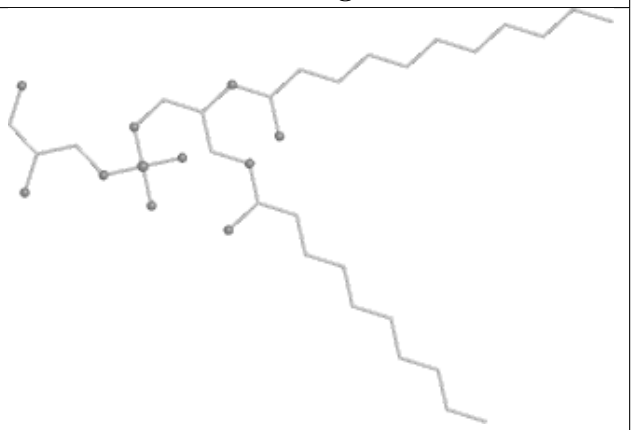
Bond lengths



Bond angles

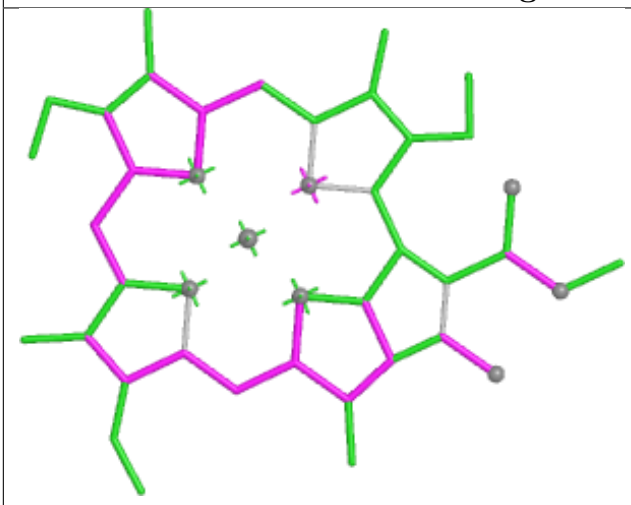


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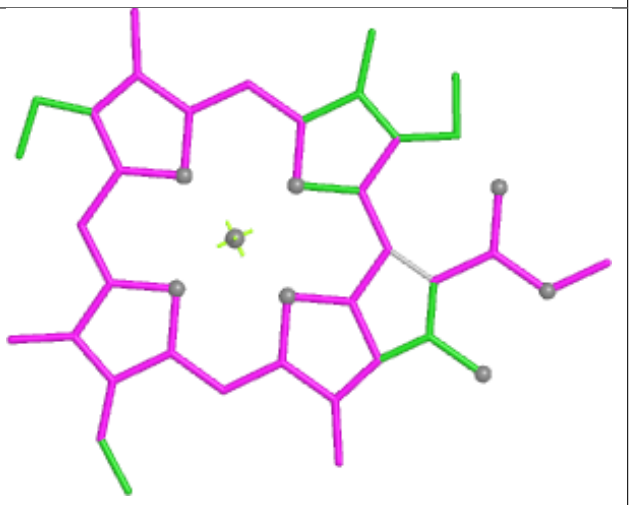


Rings

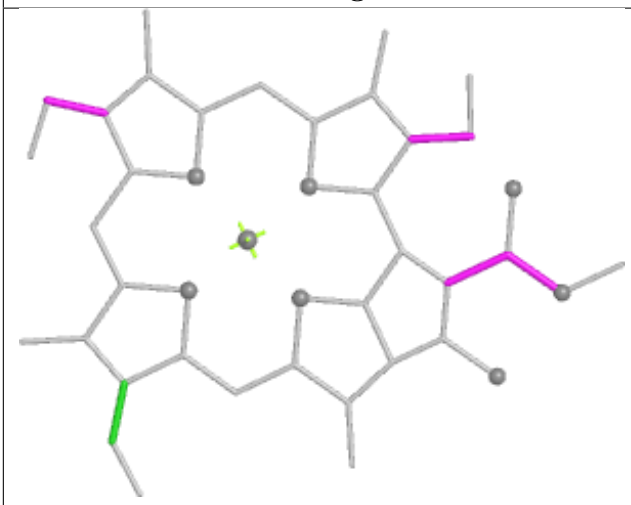
Ligand CLA 08 312



Bond lengths



Bond angles

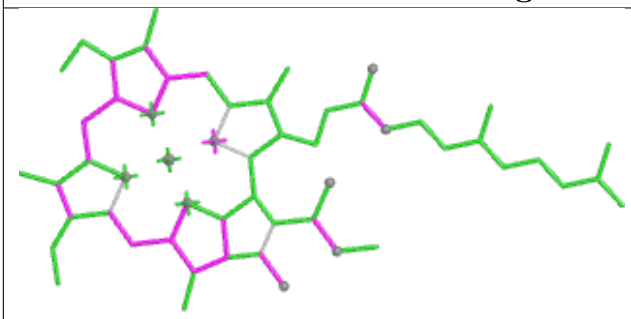


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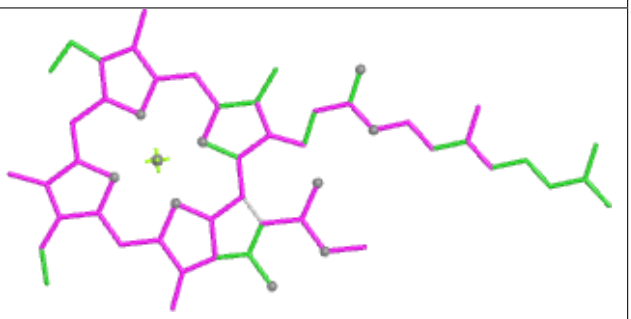


Rings

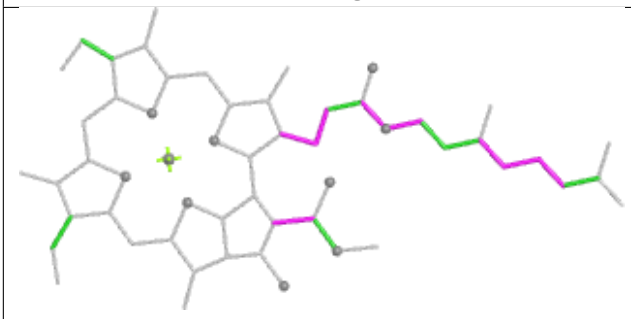
Ligand CLA 1C 512



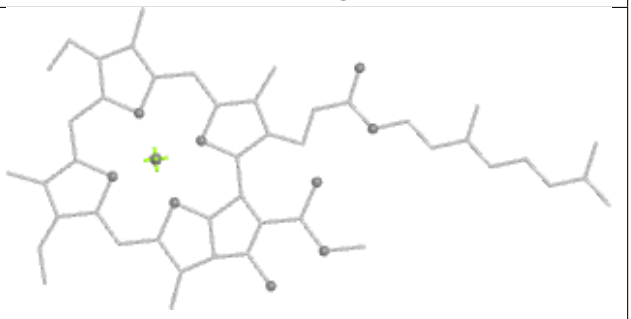
Bond lengths



Bond angles

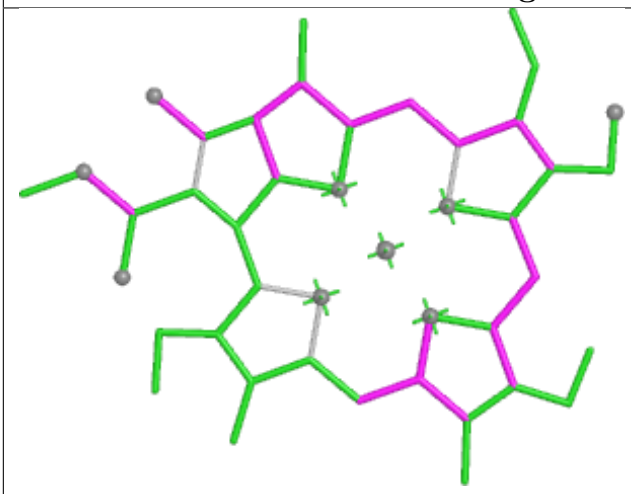


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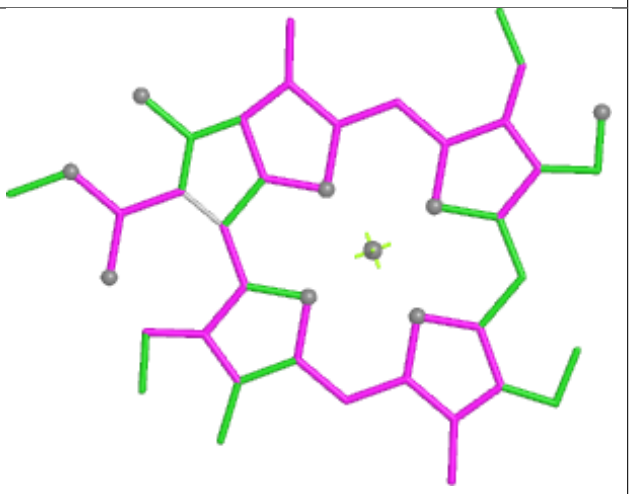


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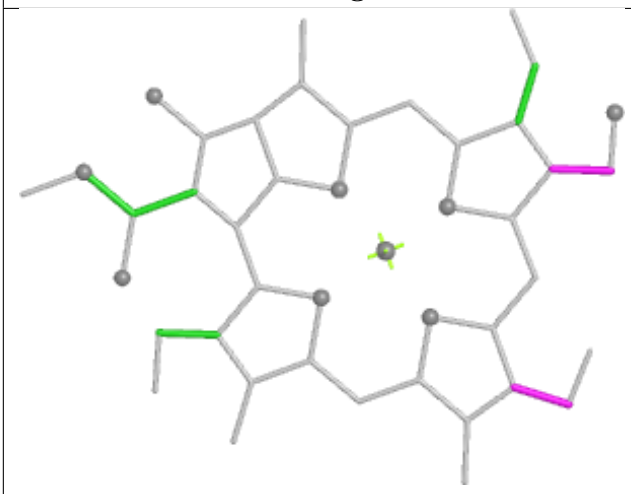
Ligand CHL 04 304



Bond lengths



Bond angles

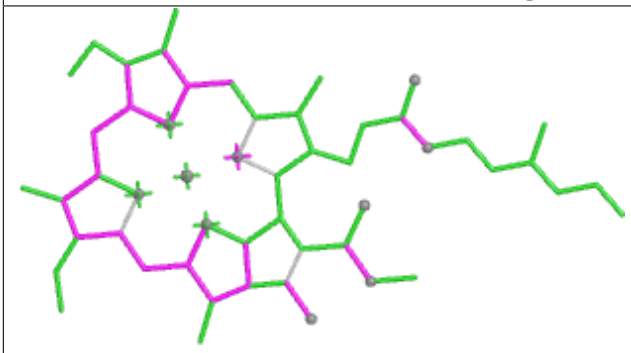


Torsions

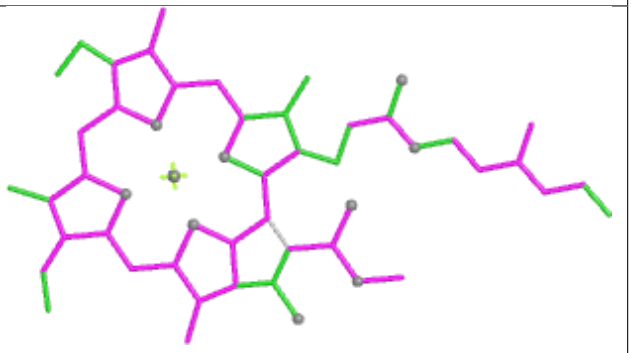


Rings

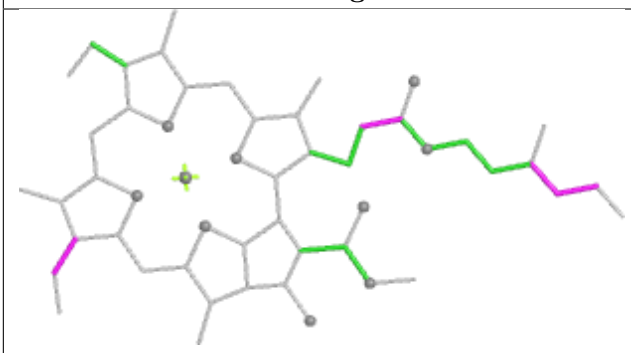
Ligand CLA 1r 312



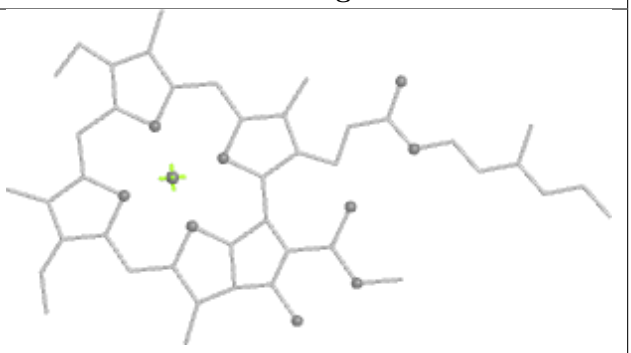
Bond lengths



Bond angles

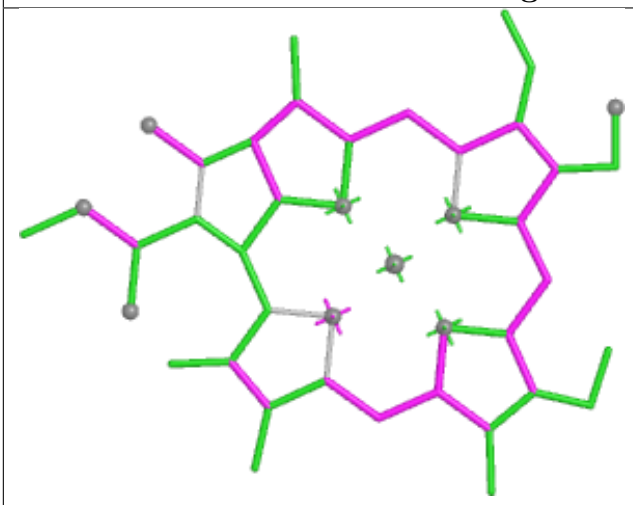


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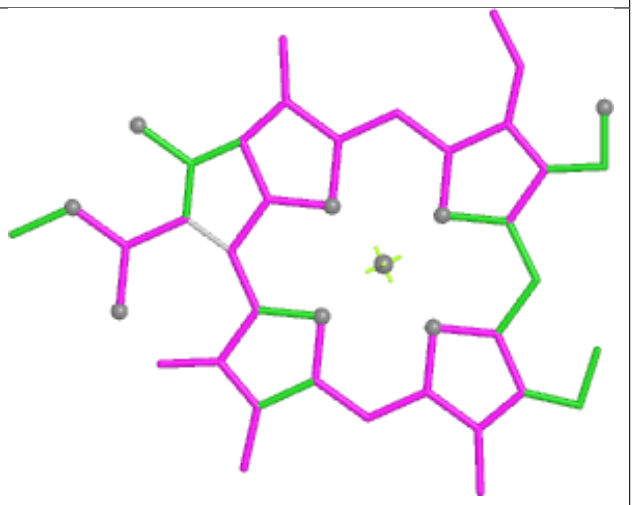


Rings

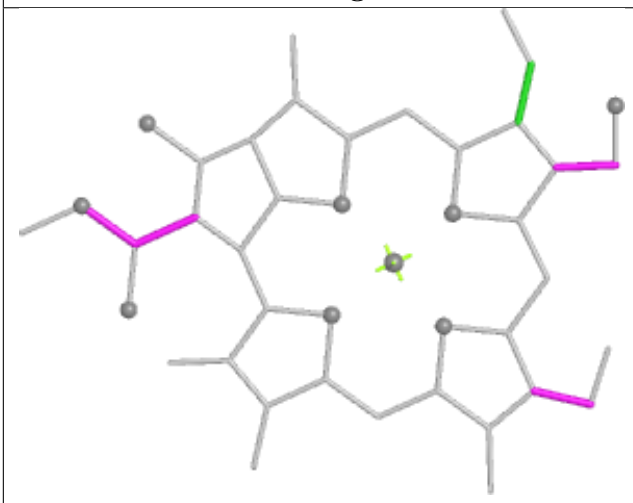
Ligand CHL 1s 309



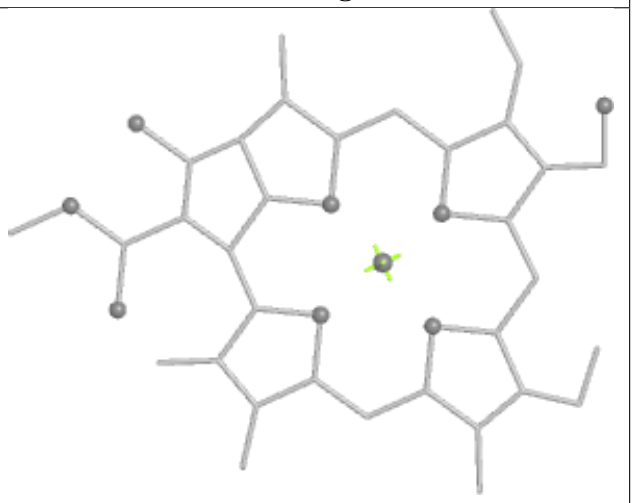
Bond lengths



Bond angles

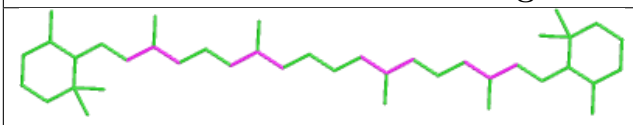


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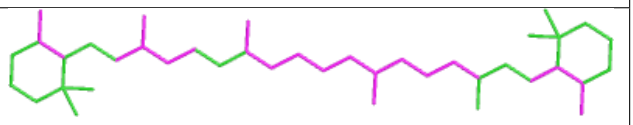


Rings

Ligand BCR 1k 102



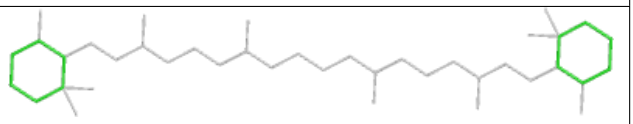
Bond lengths



Bond angles

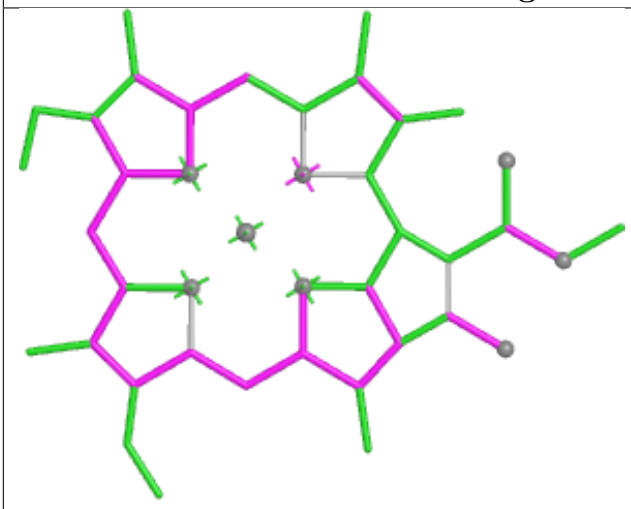


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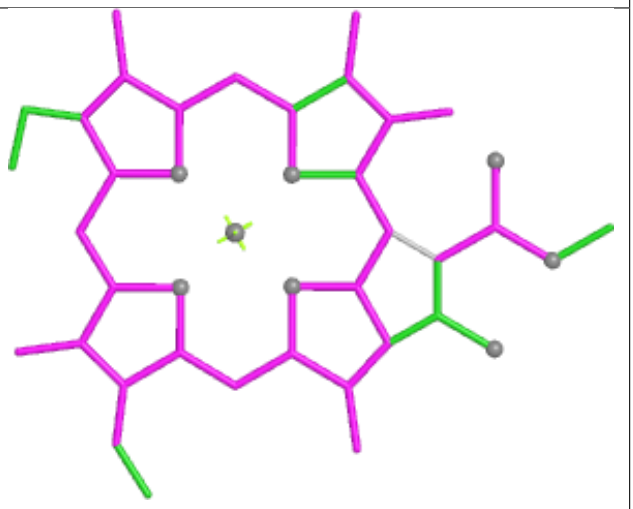


Rings

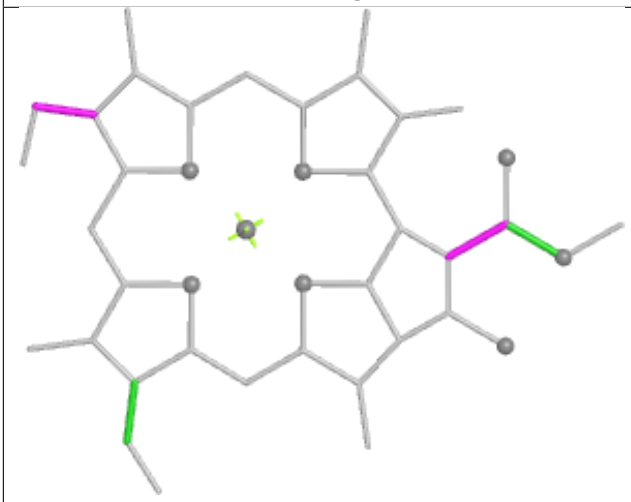
Ligand CLA 1S 314



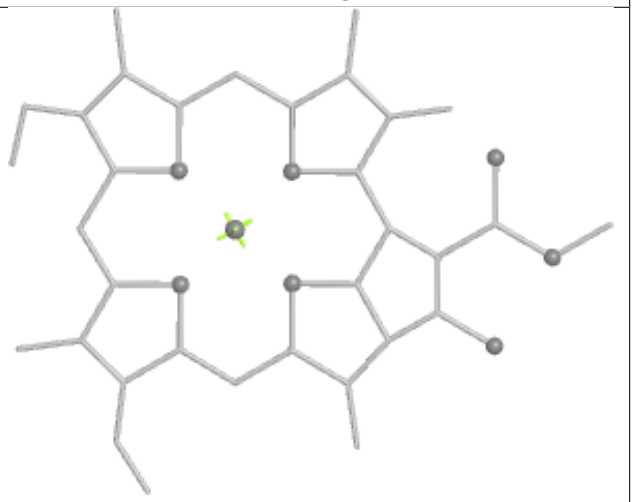
Bond lengths



Bond angles

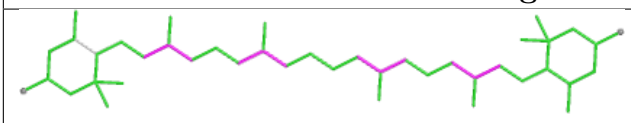


Torsions

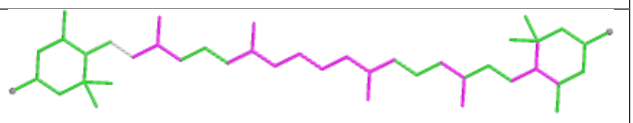


Rings

Ligand LUT 03 313



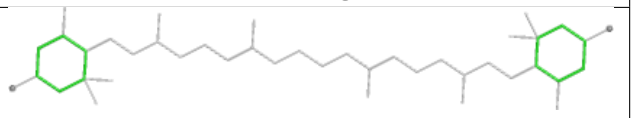
Bond lengths



Bond angles

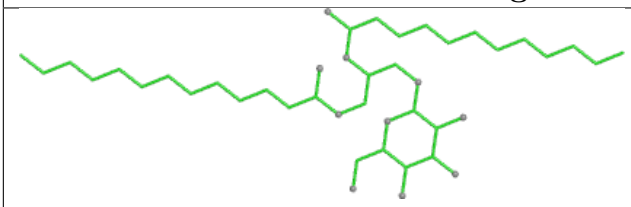


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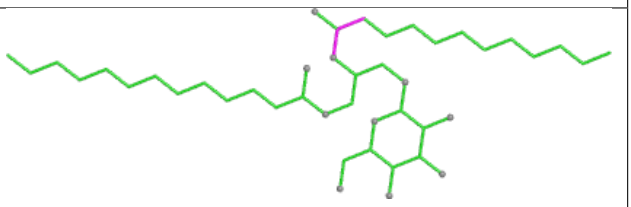


Rings

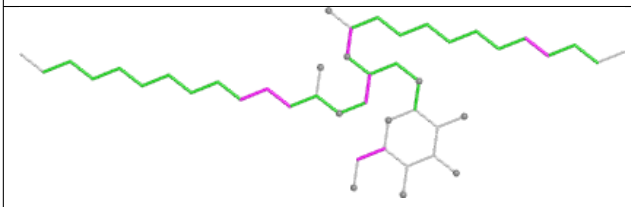
Ligand MGE 1B 623



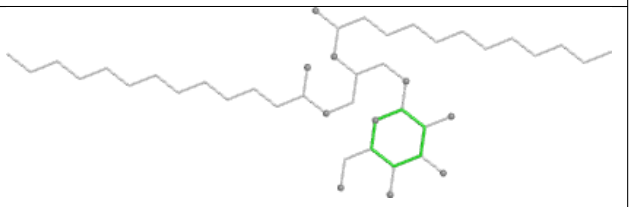
Bond lengths



Bond angles

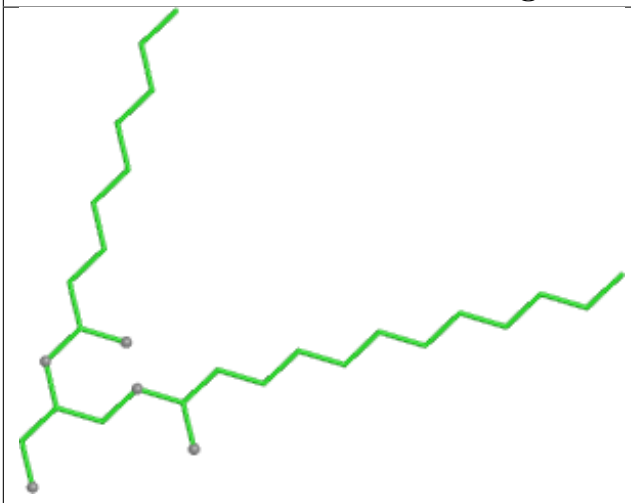


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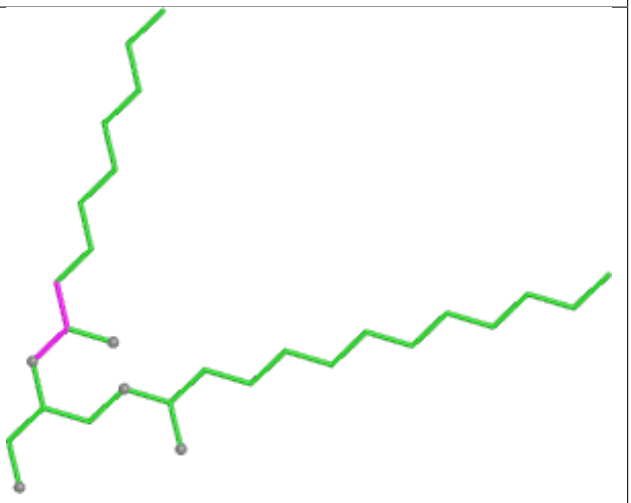


Rings

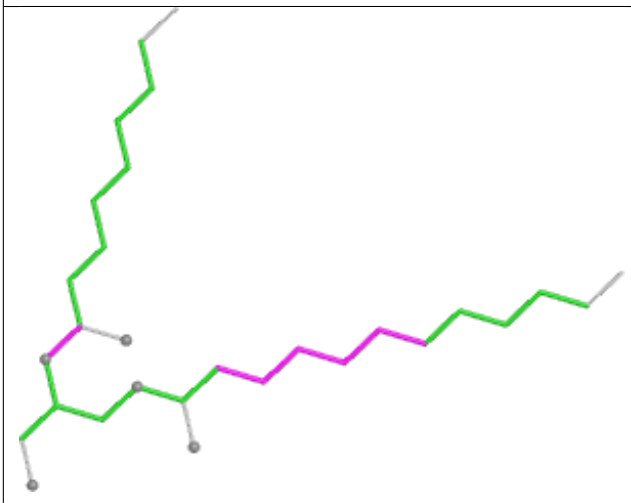
Ligand LHG 1s 303



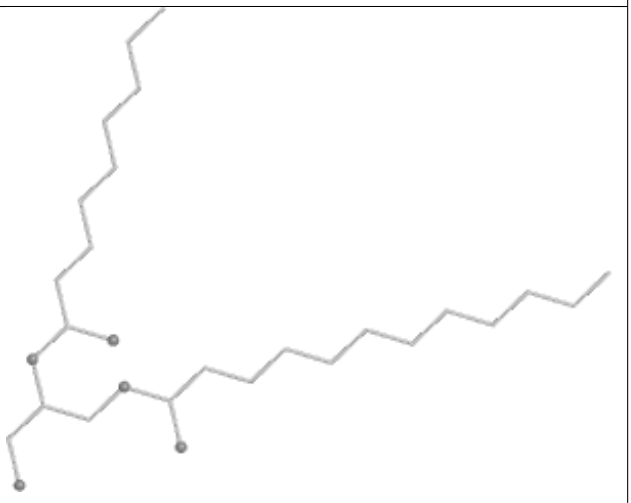
Bond lengths



Bond angles

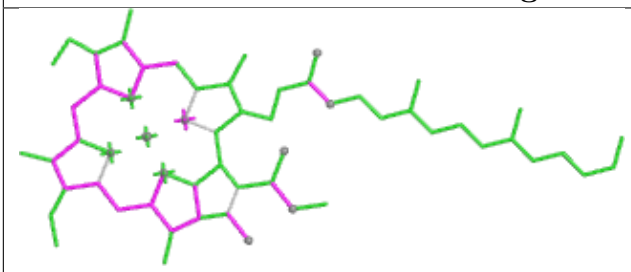


Torsions

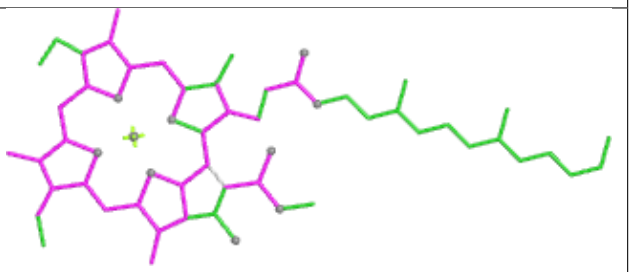


Rings

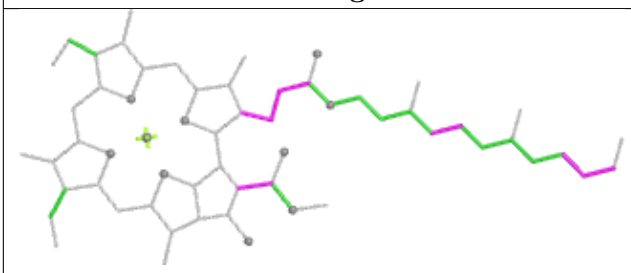
Ligand CLA 1c 515



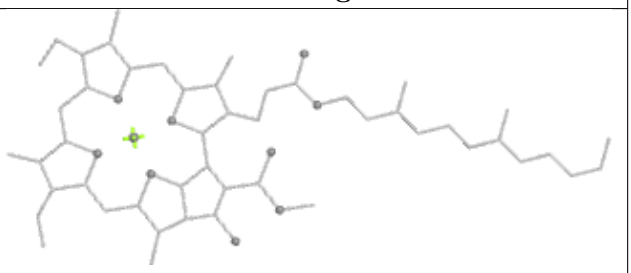
Bond lengths



Bond angles

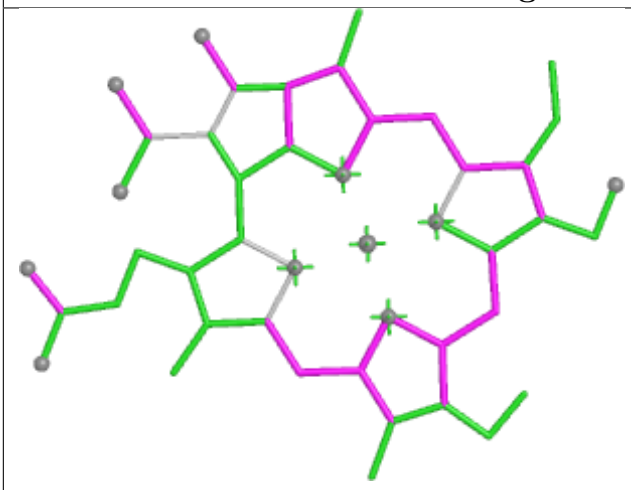


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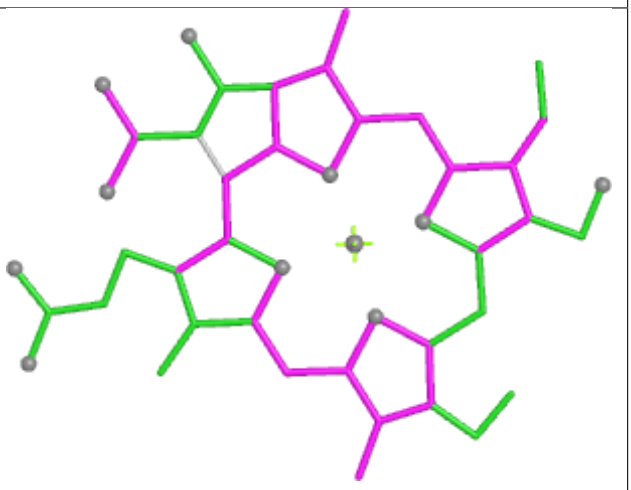


Rings

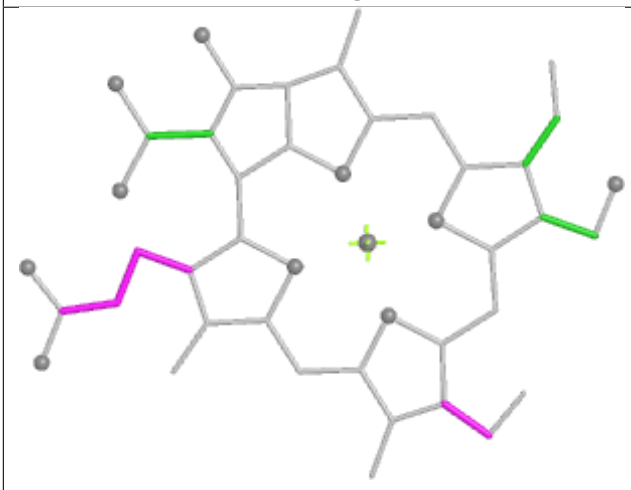
Ligand CHL 02 605



Bond lengths



Bond angles

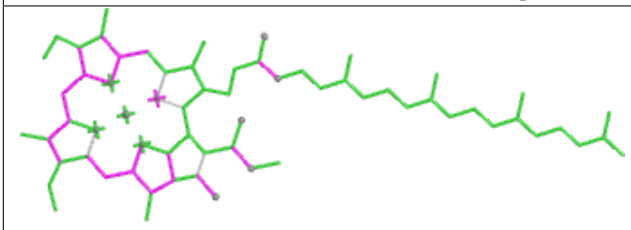


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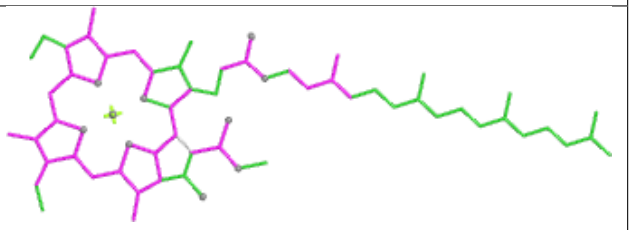


Rings

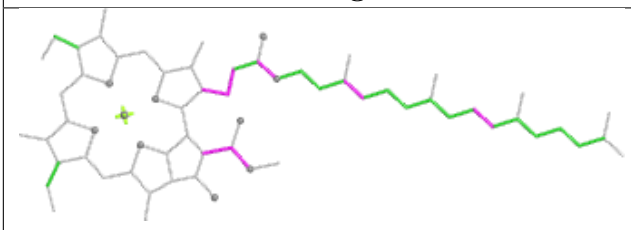
Ligand CLA 1N 303



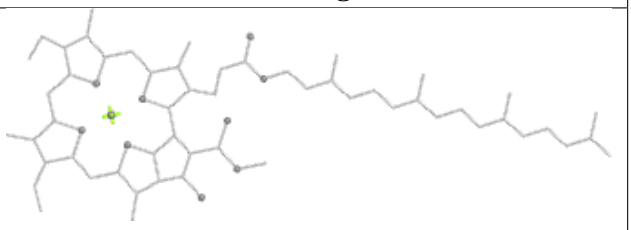
Bond lengths



Bond angles

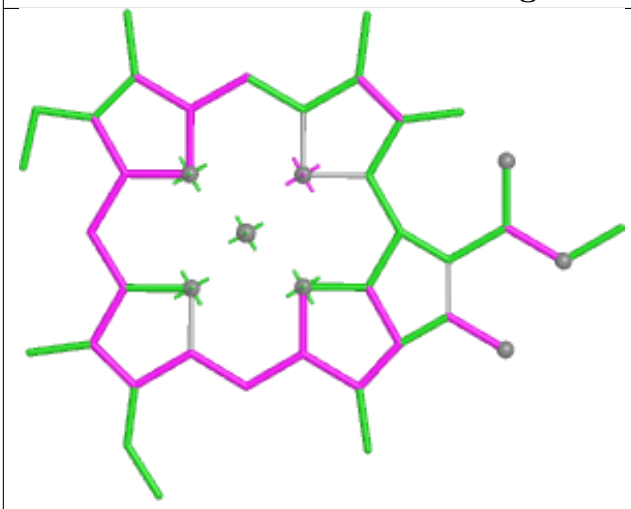


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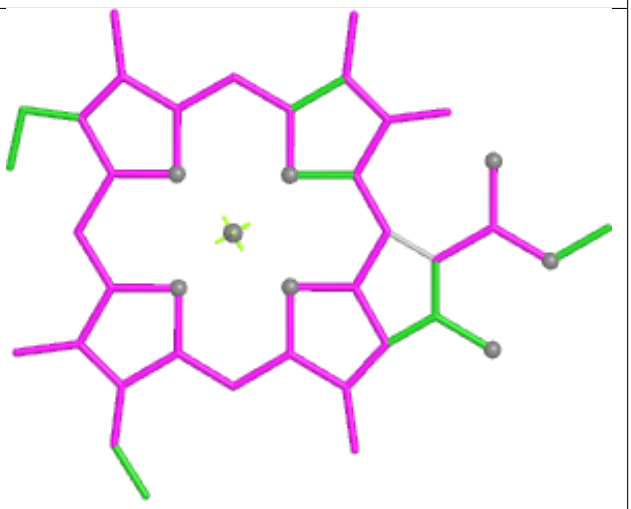


Rings

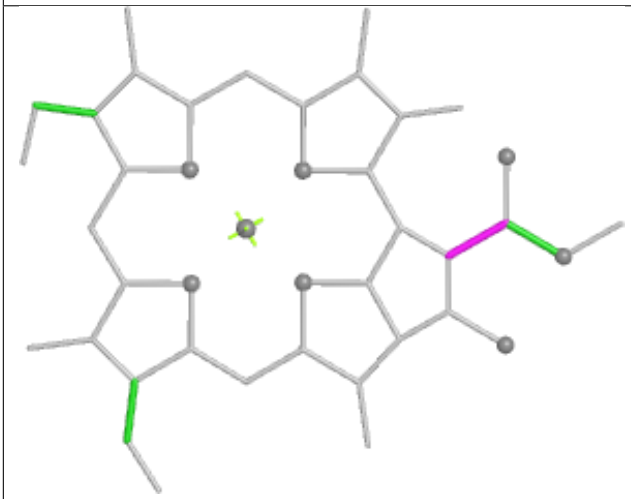
Ligand CLA 04 314



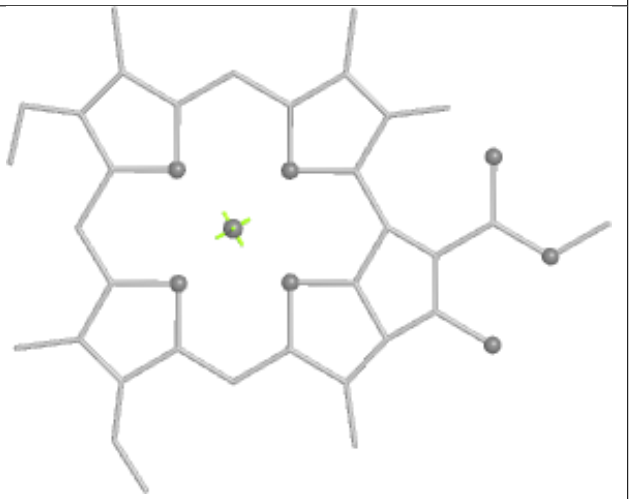
Bond lengths



Bond angles

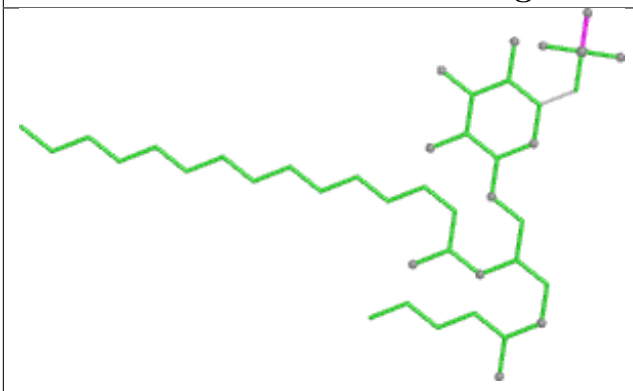


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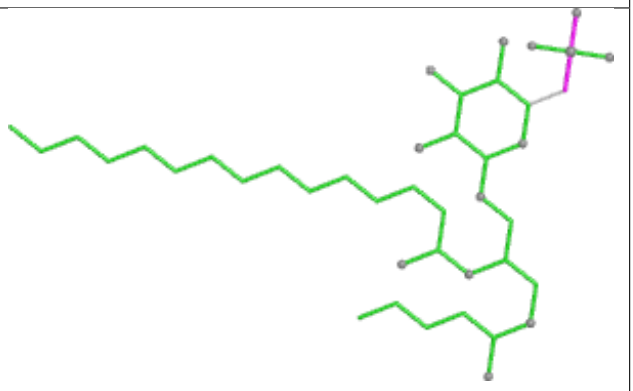


Rings

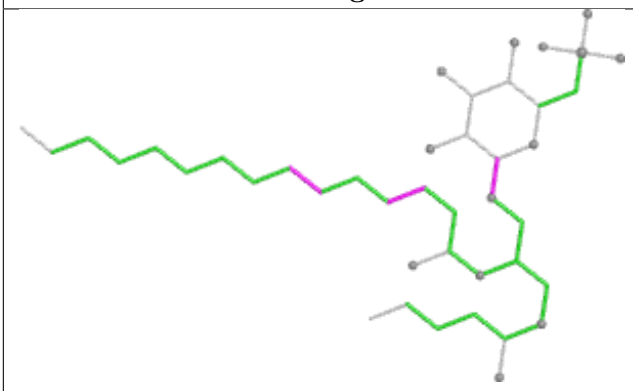
Ligand SQD 1A 412



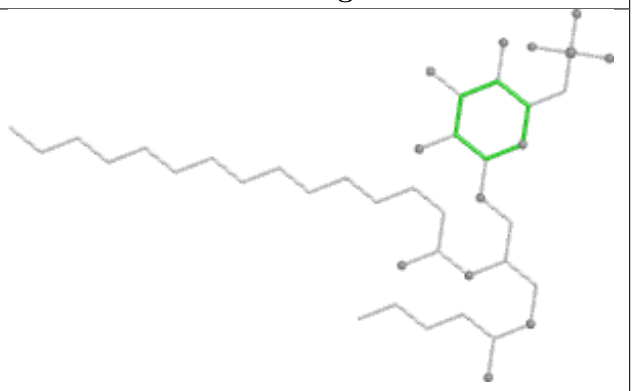
Bond lengths



Bond angles

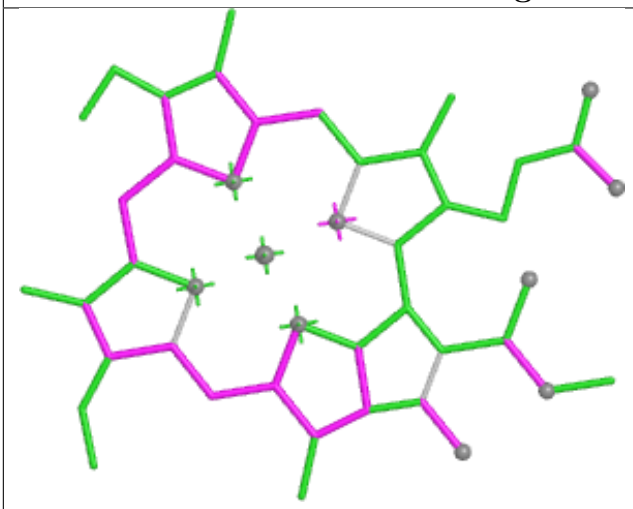


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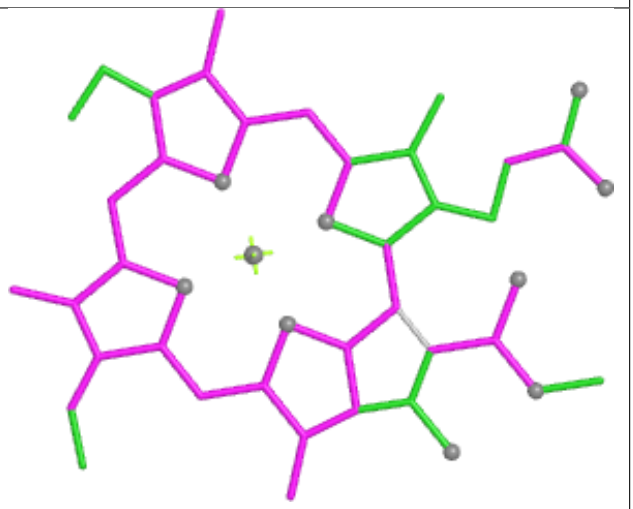


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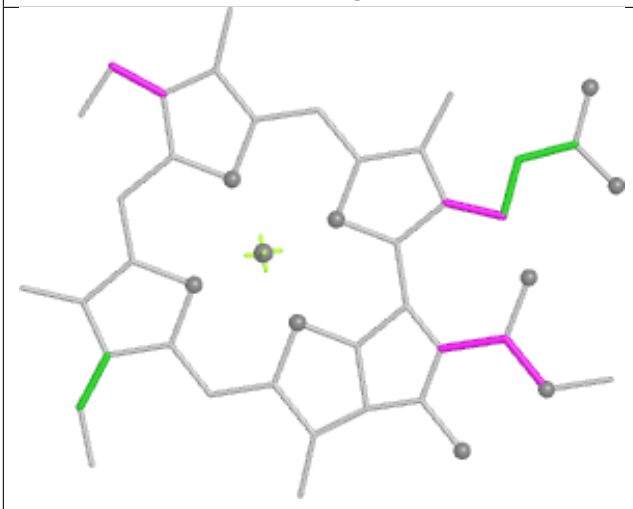
Ligand CLA 1N 304



Bond lengths



Bond angles

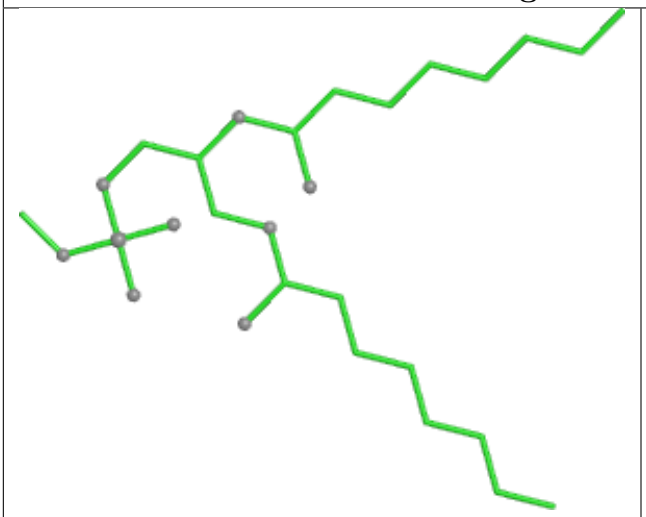


Torsions

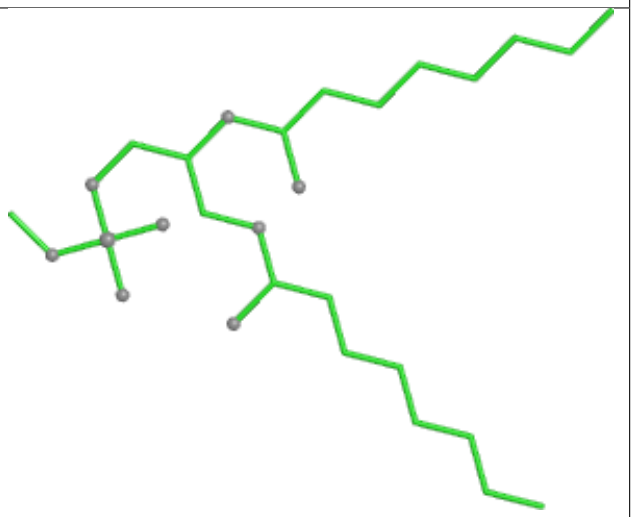


Rings

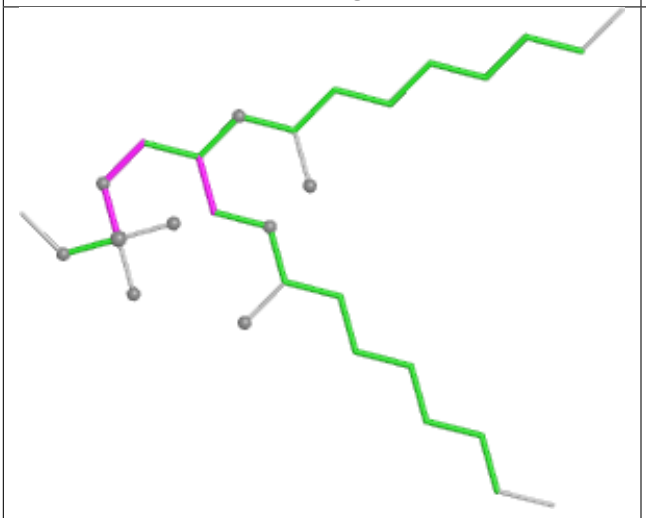
Ligand LHG 1s 302



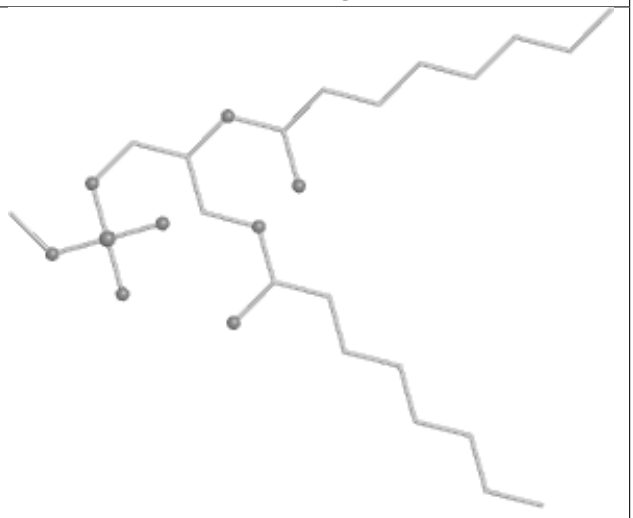
Bond lengths



Bond angles

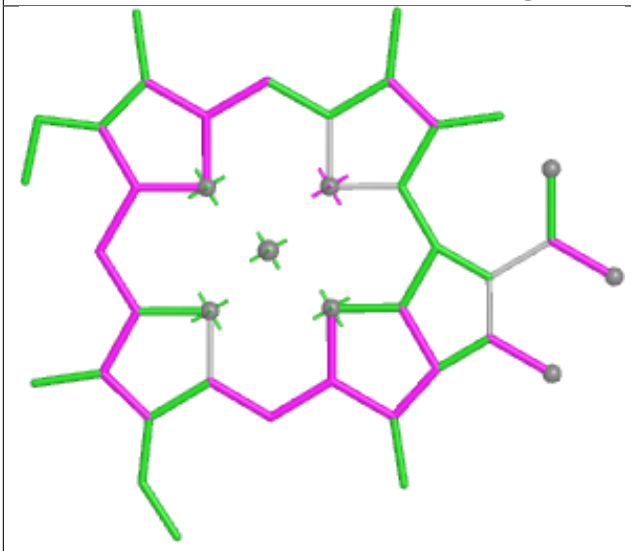


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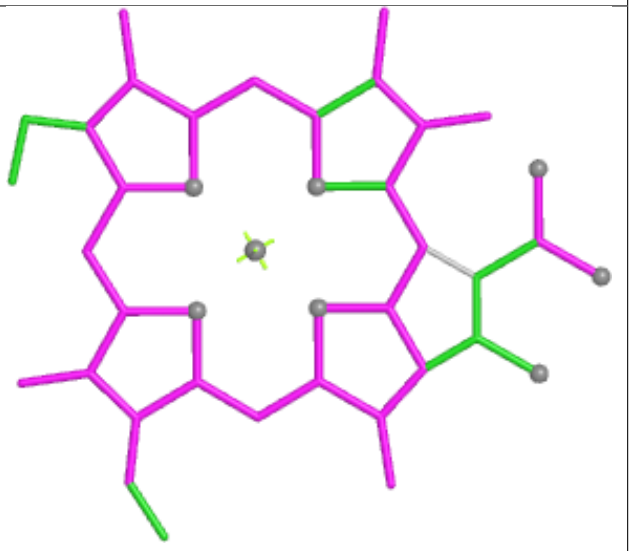


Rings

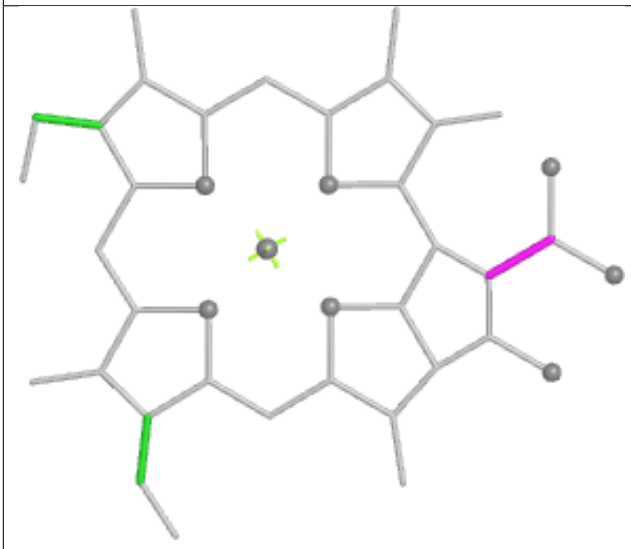
Ligand CLA 02 608



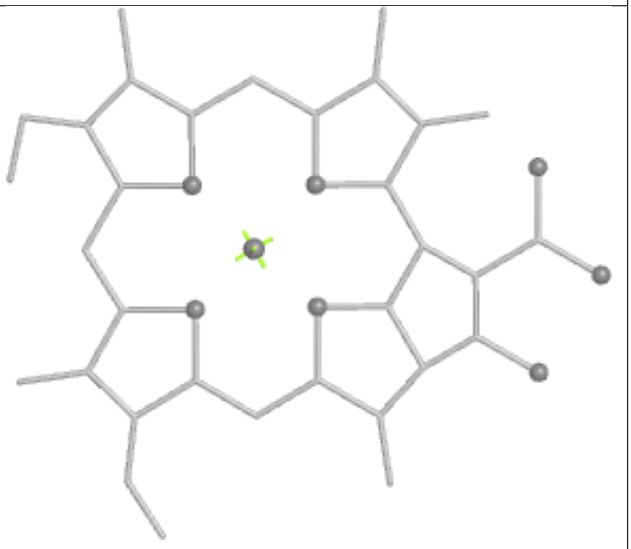
Bond lengths



Bond angles

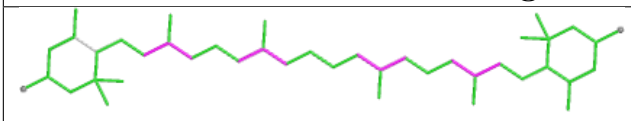


Torsions

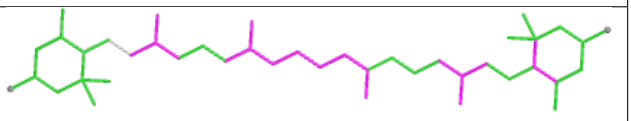


Rings

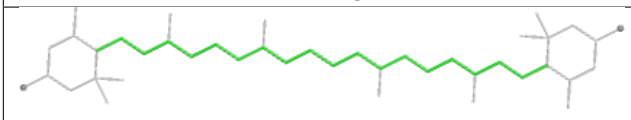
Ligand LUT 00 314



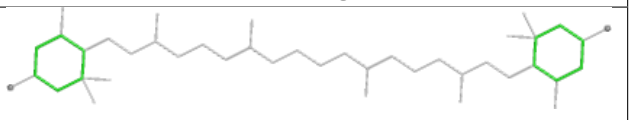
Bond lengths



Bond angles

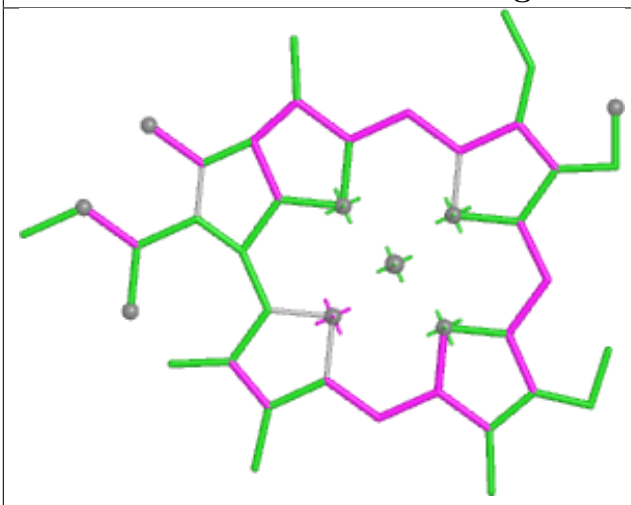


Torsions

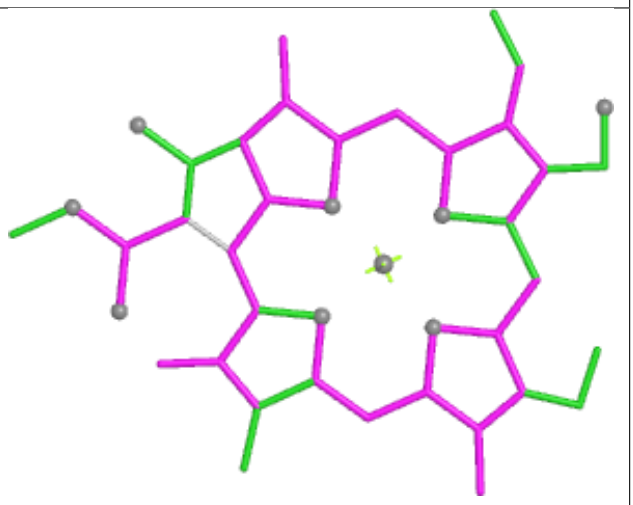


Rings

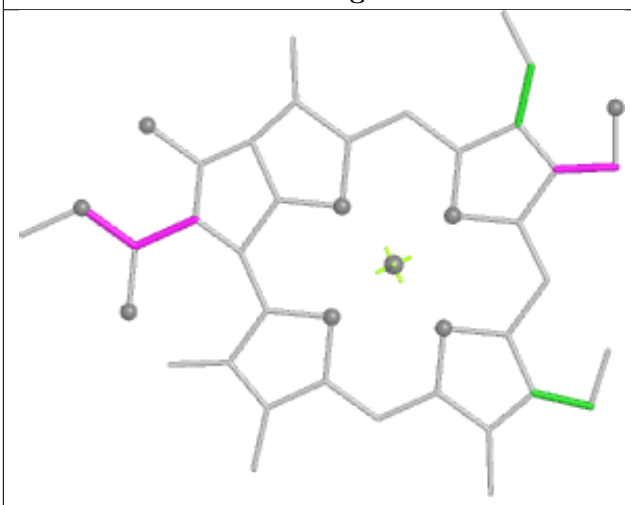
Ligand CHL 1N 306



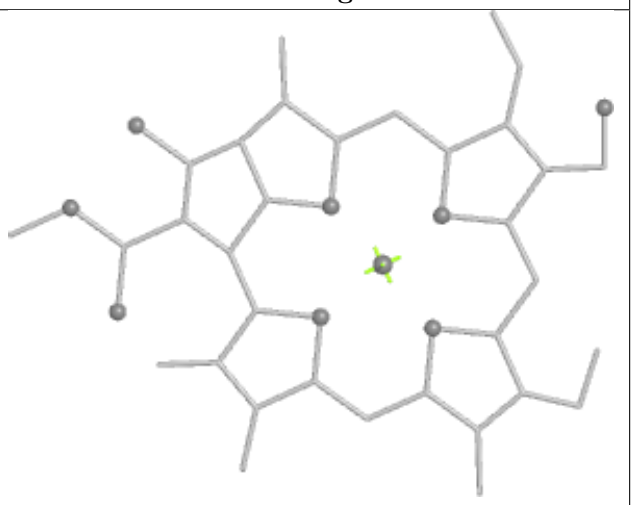
Bond lengths



Bond angles

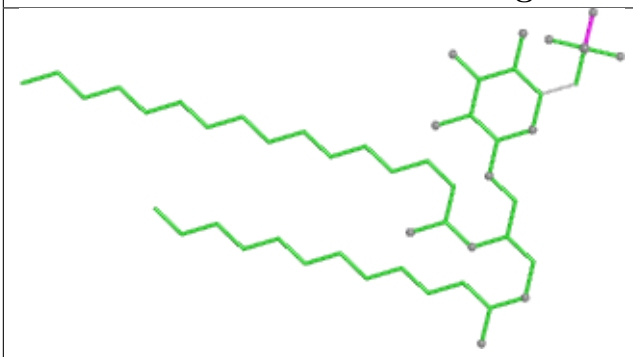


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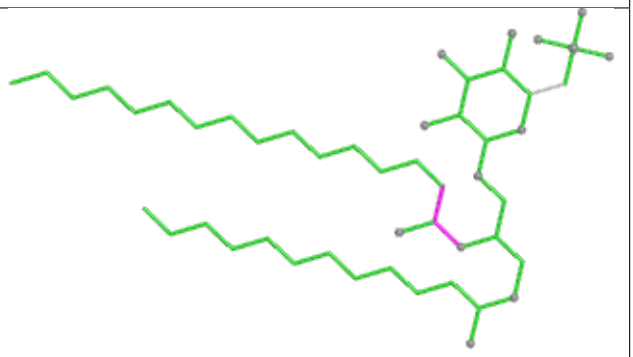


Rings

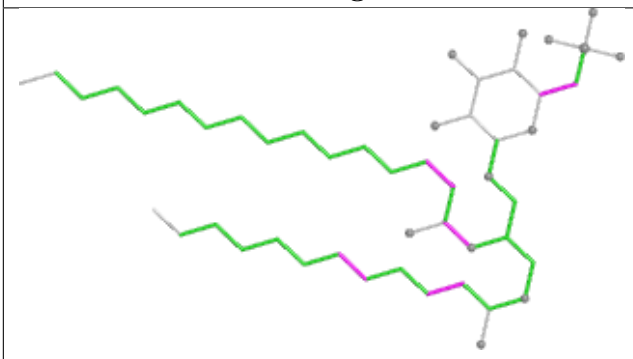
Ligand SQD 1B 622



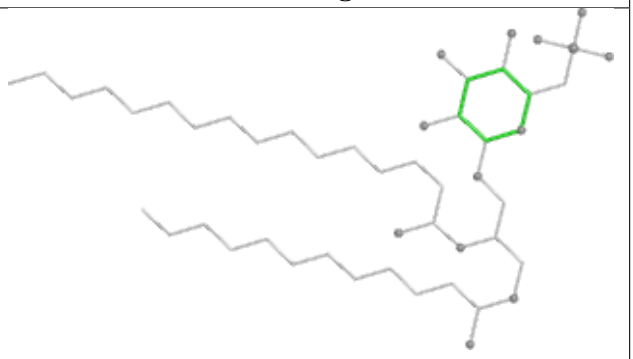
Bond lengths



Bond angles

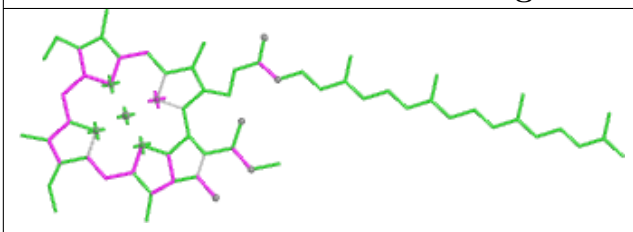


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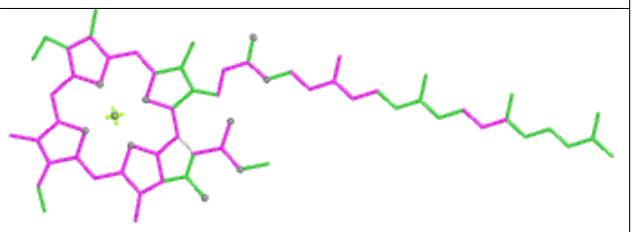


Rings

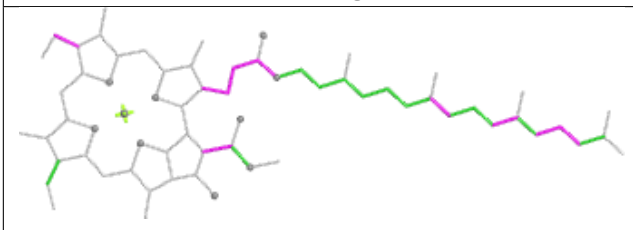
Ligand CLA 1B 610



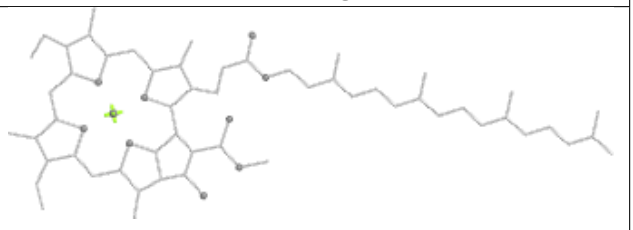
Bond lengths



Bond angles

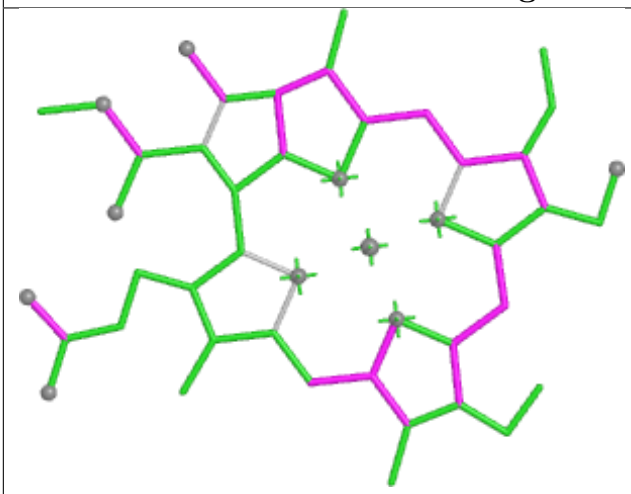


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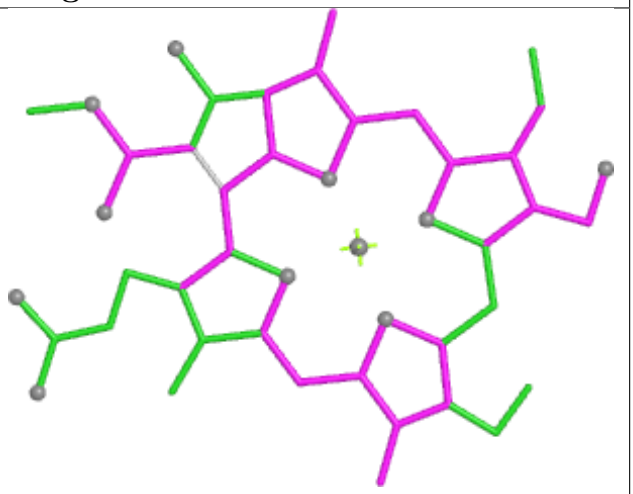


Rings

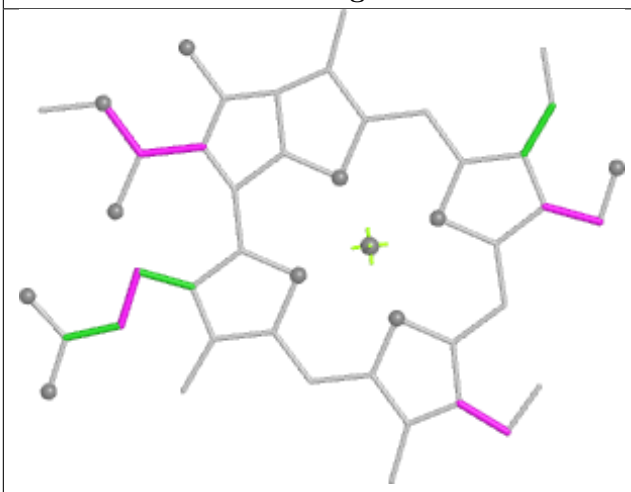
Ligand CHL 1g 605



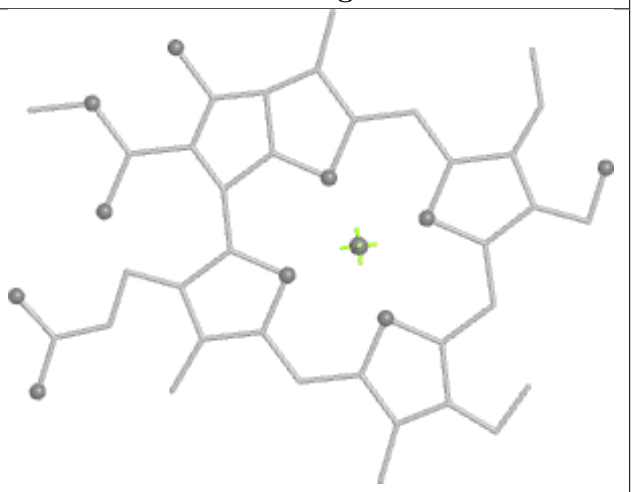
Bond lengths



Bond angles

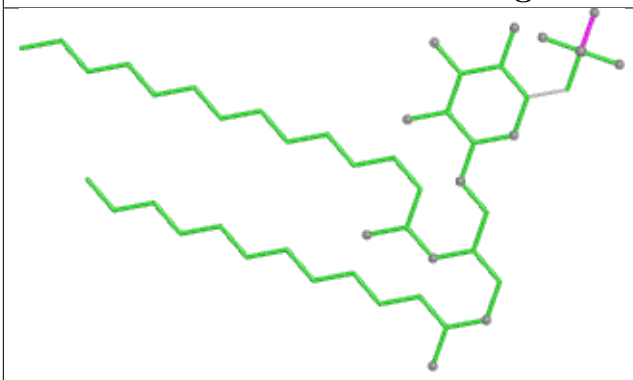


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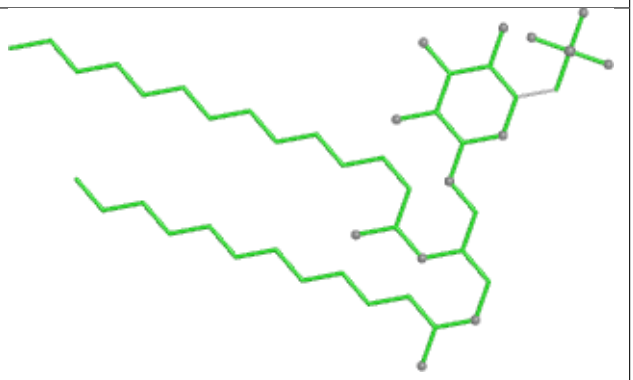


Rings

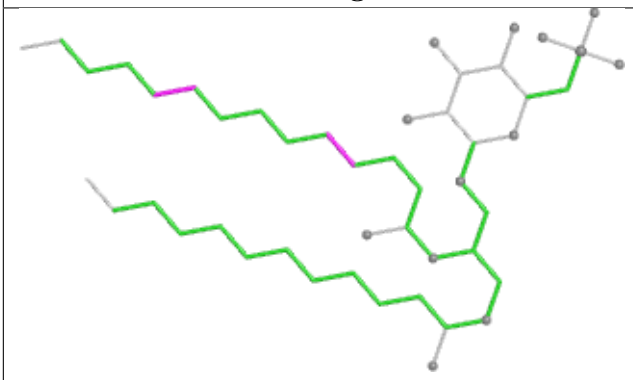
Ligand SQD 1A 411



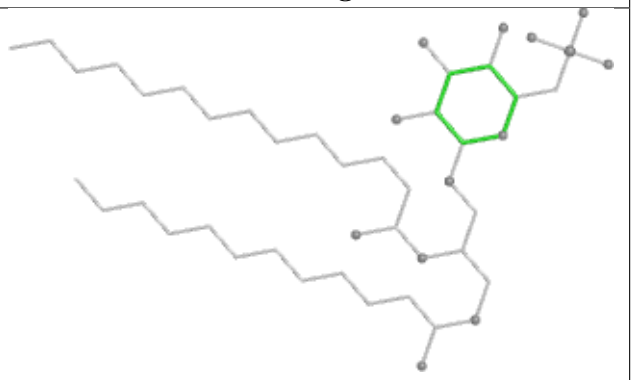
Bond lengths



Bond angles

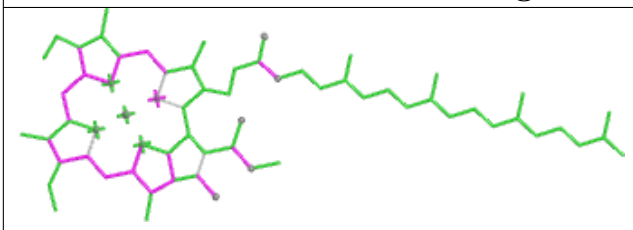


Torsions

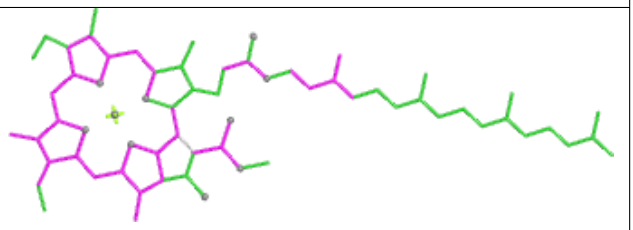


Rings

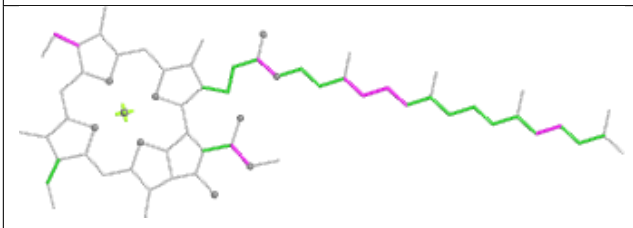
Ligand CLA 1B 609



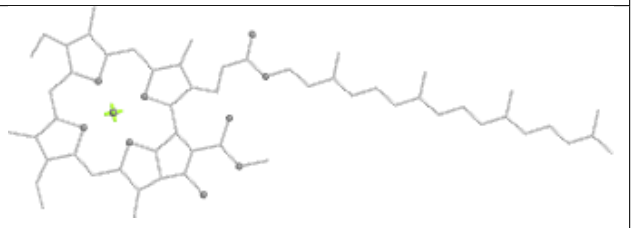
Bond lengths



Bond angles

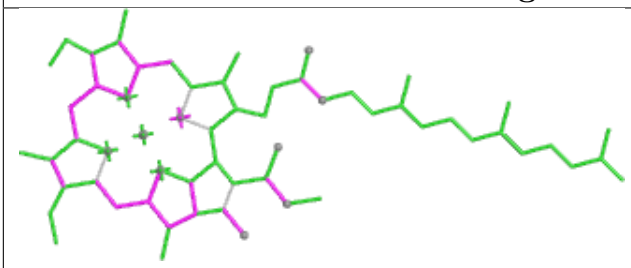


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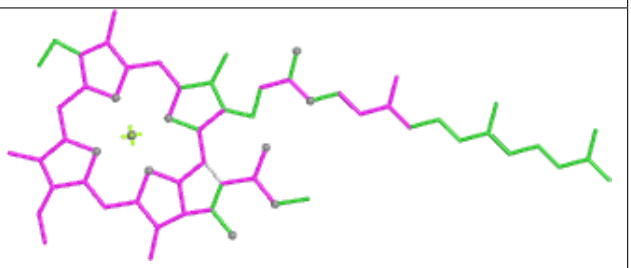


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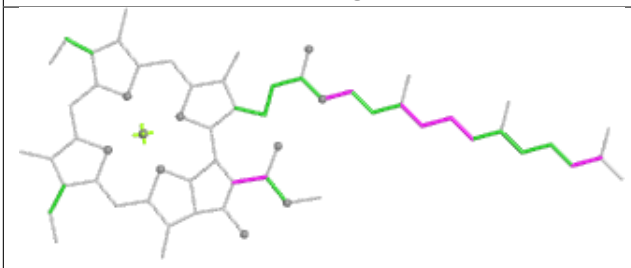
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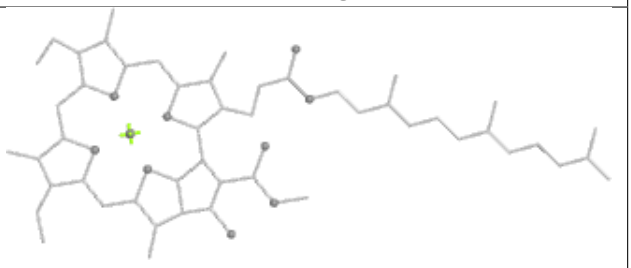
Bond lengths



Bond angles

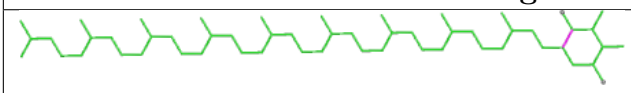


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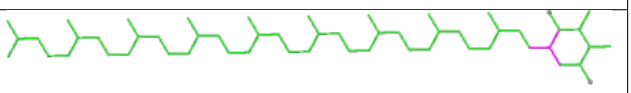


Rings

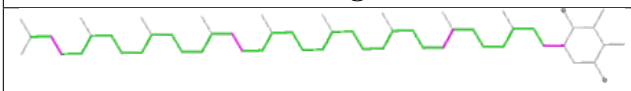
Ligand PL9 1D 407



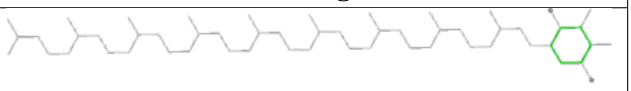
Bond lengths



Bond angles

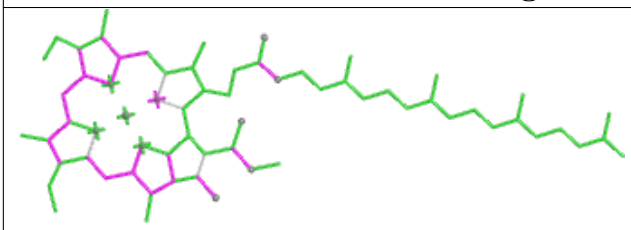


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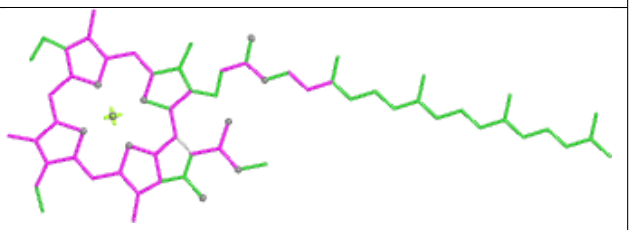


Rings

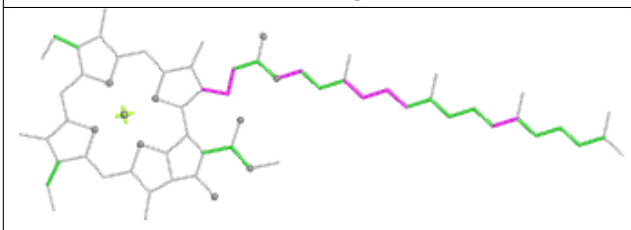
Ligand CLA 1c 503



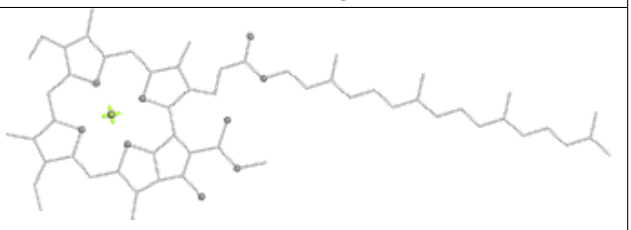
Bond lengths



Bond angles

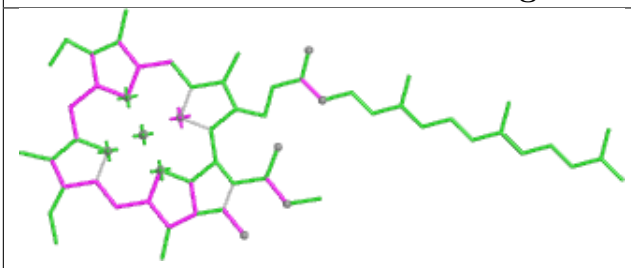


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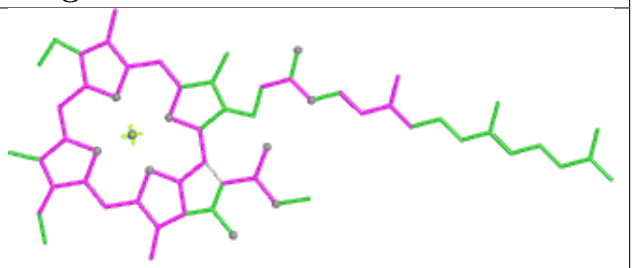


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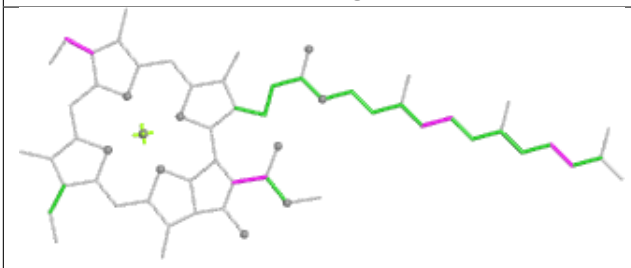
Ligand CLA 1g 612



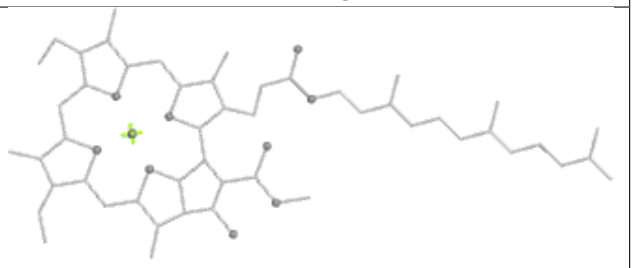
Bond lengths



Bond angles

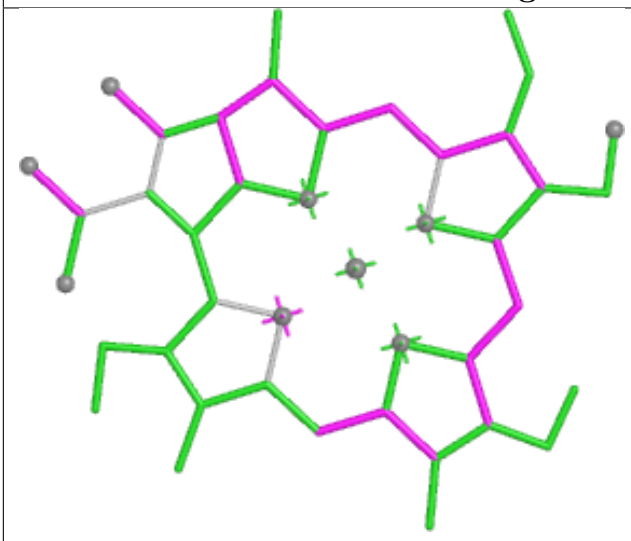


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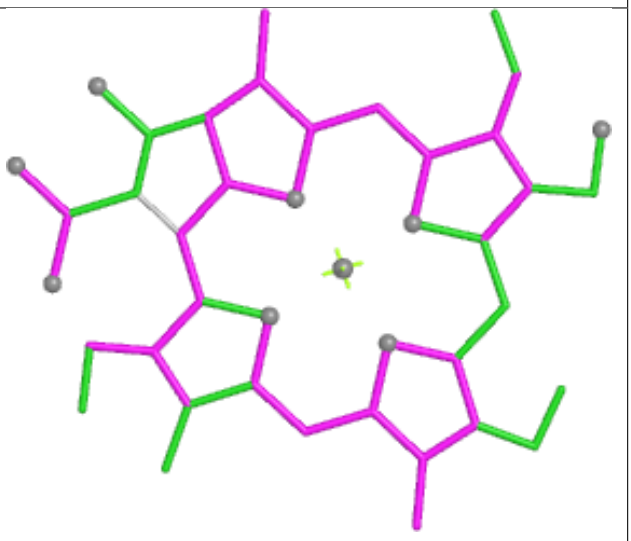


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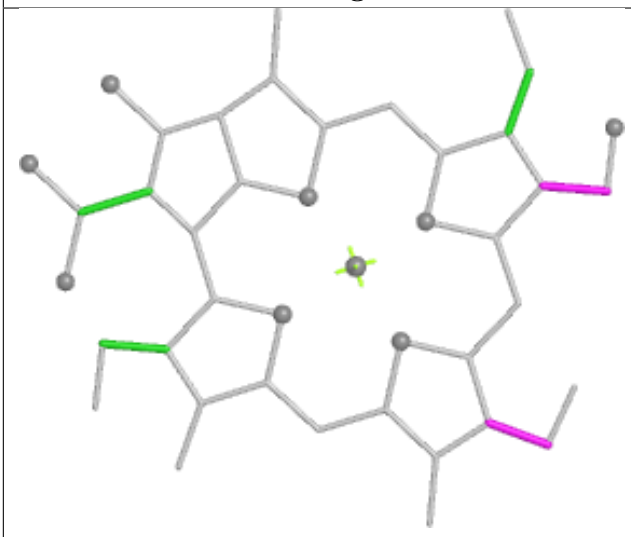
Ligand CHL 04 305



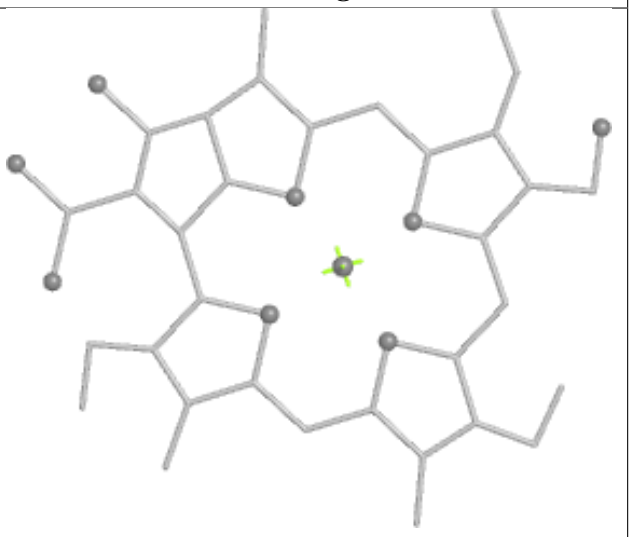
Bond lengths



Bond angles

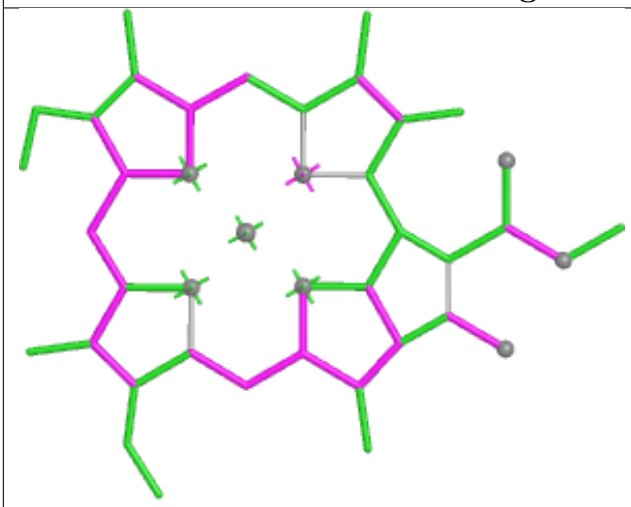


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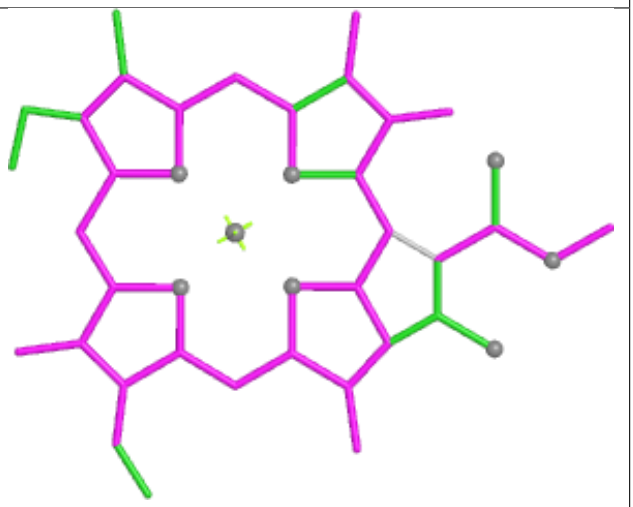


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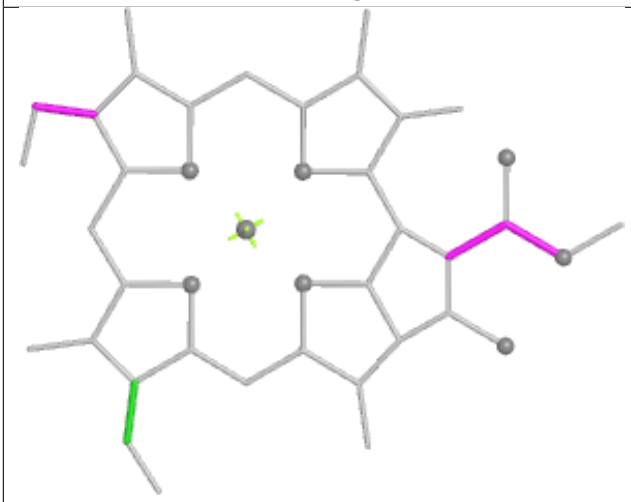
Ligand CLA 09 309



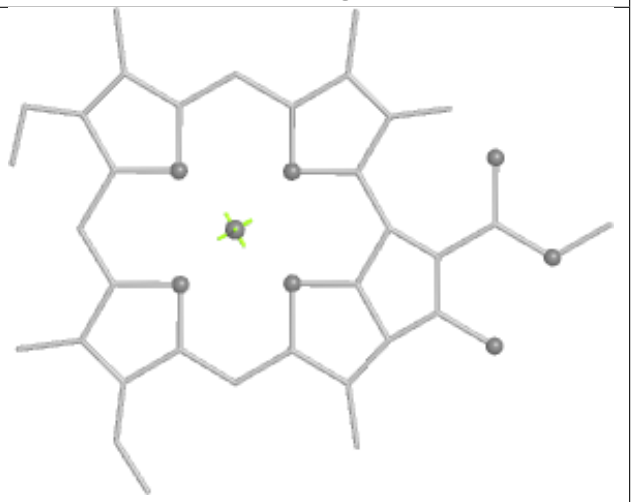
Bond lengths



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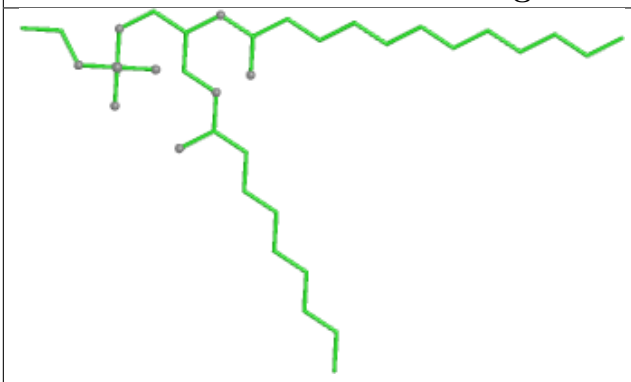


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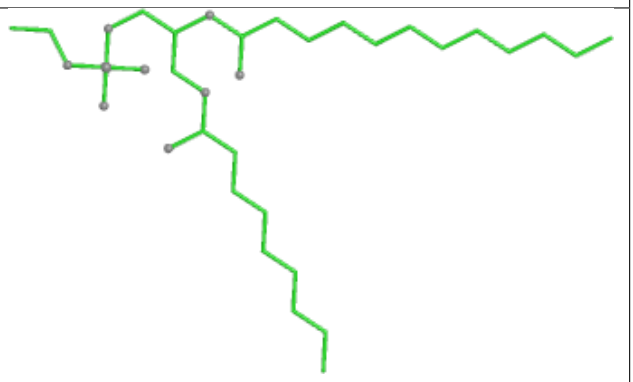


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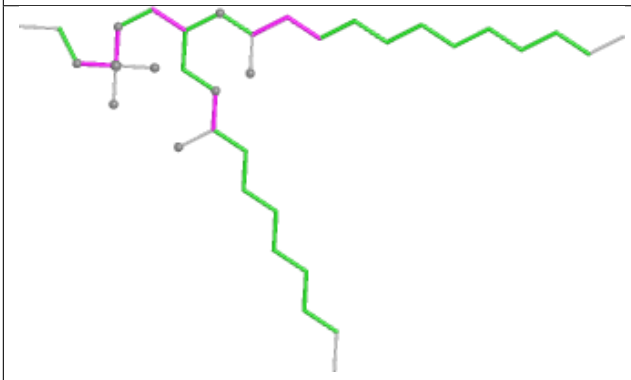
Ligand LHG 1w 102



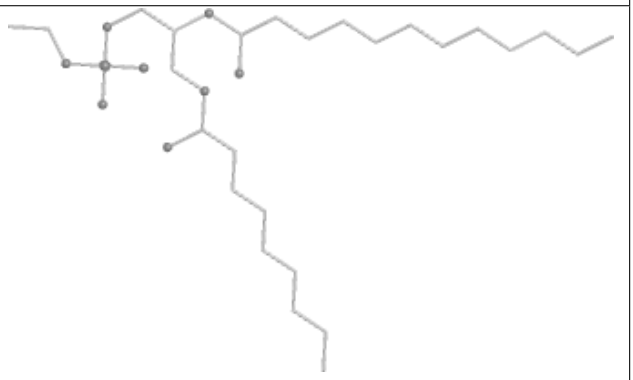
Bond lengths



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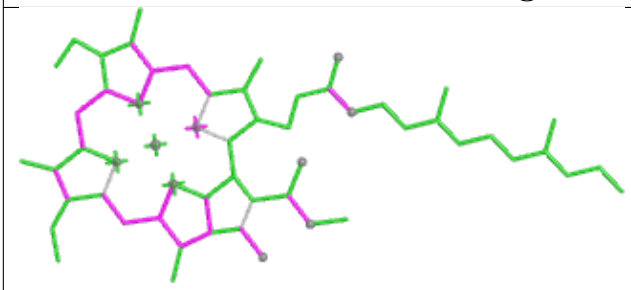


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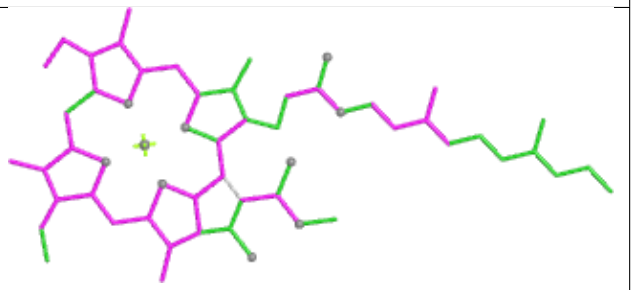


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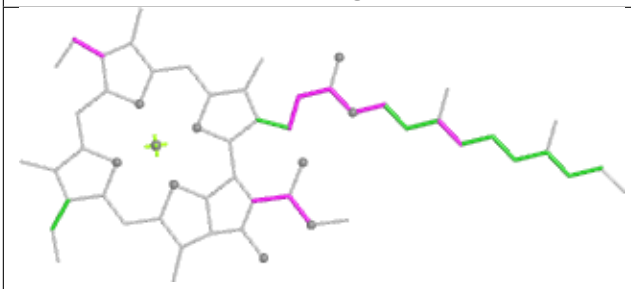
Ligand CLA 1n 613



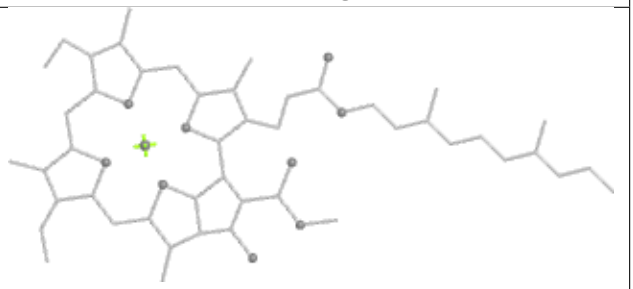
Bond lengths



Bond angles

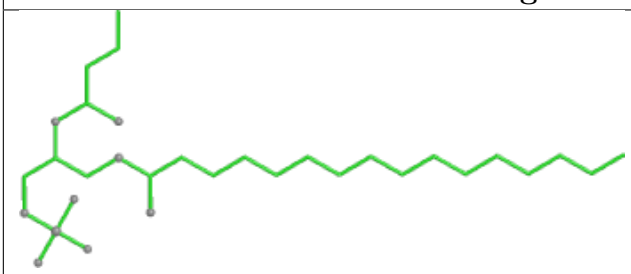


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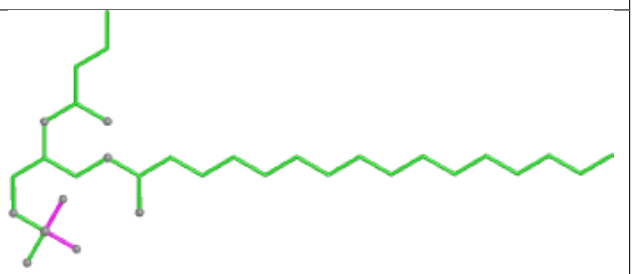


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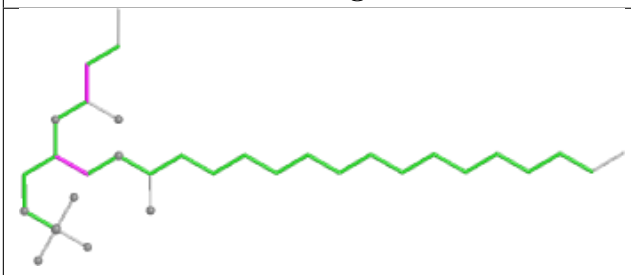
Ligand LHG 1I 101



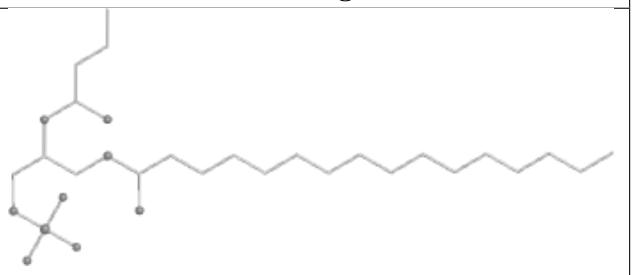
Bond lengths



Bond angles

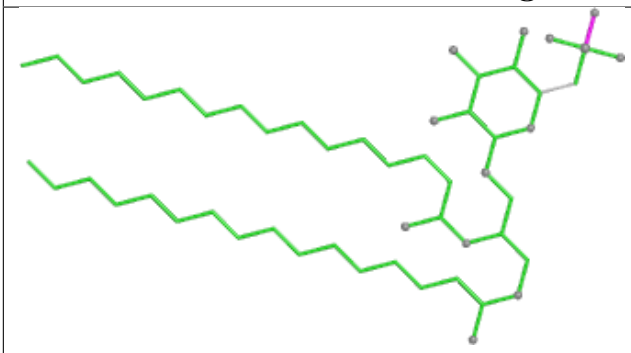


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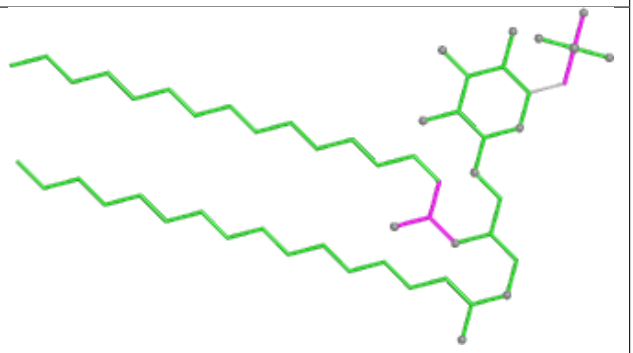


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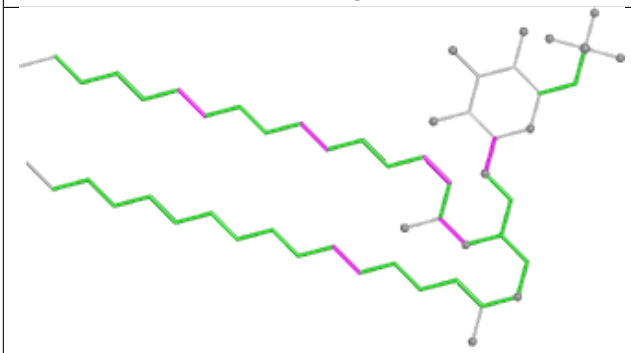
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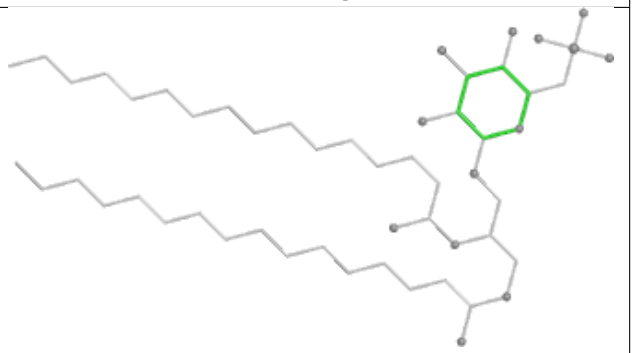
Bond lengths



Bond angles



Torsions

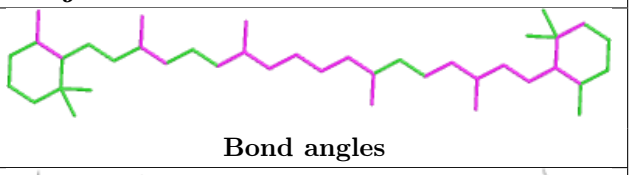


Rings

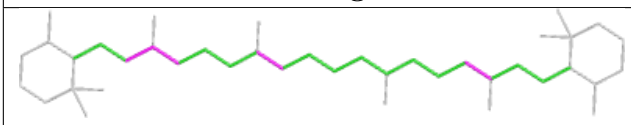
Ligand BCR 1j 101



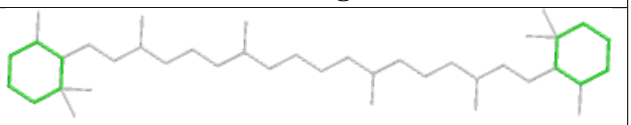
Bond lengths



Bond angles

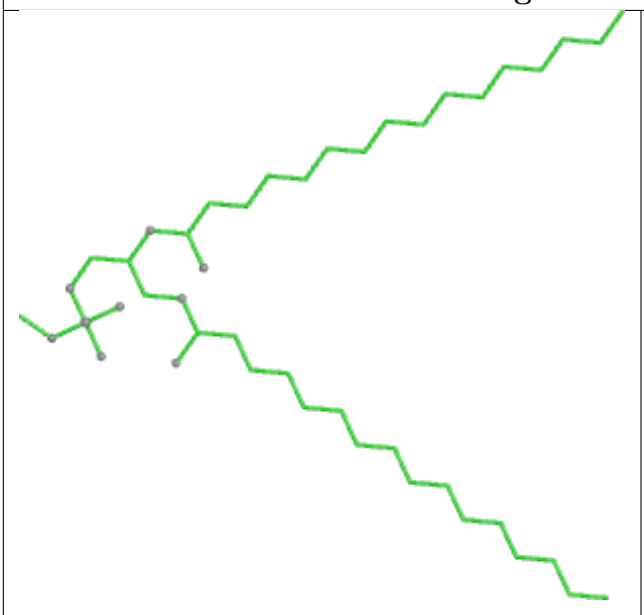


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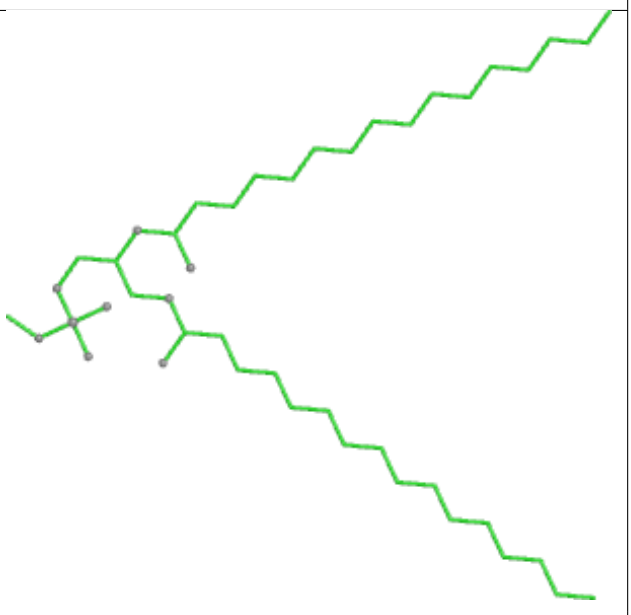


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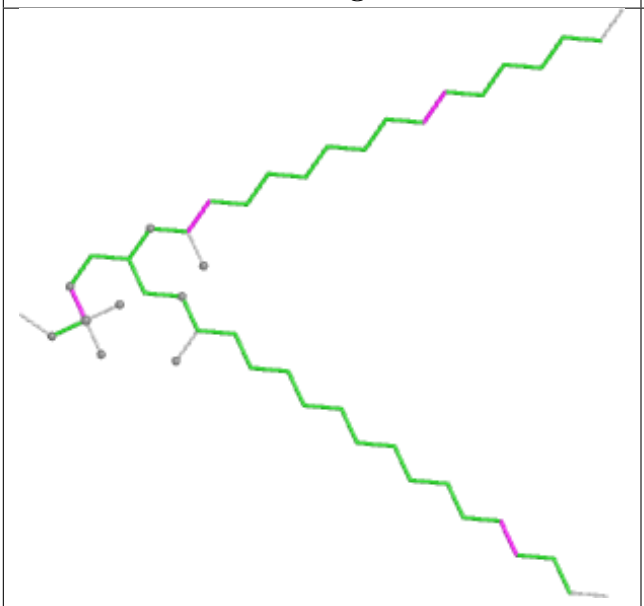
Ligand LHG 1P 201



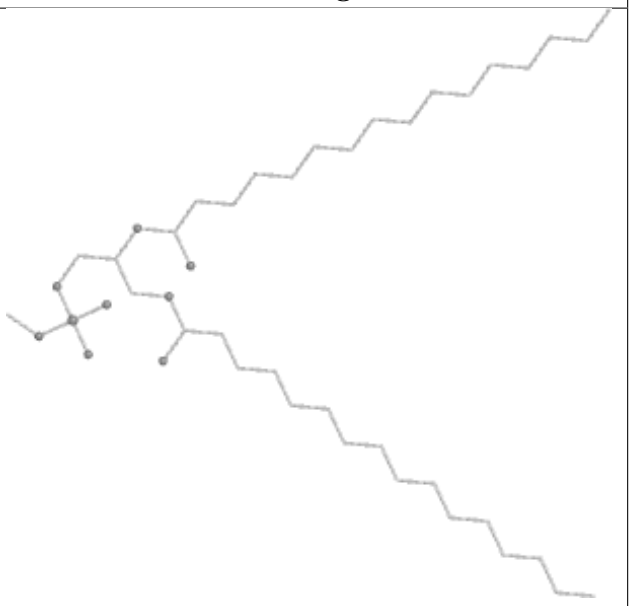
Bond lengths



Bond angles



Torsions

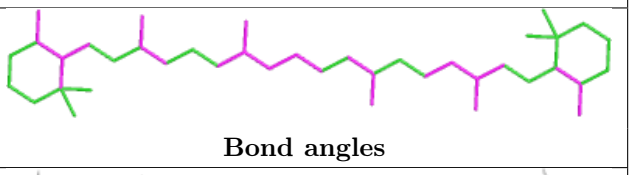


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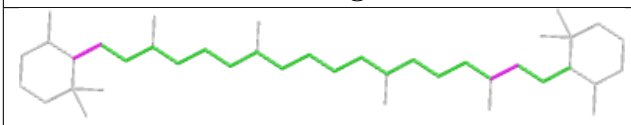
Ligand BCR 1I 102



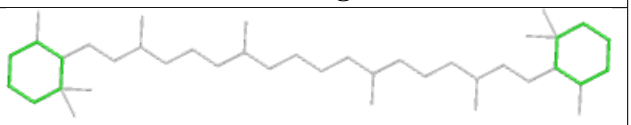
Bond lengths



Bond angles

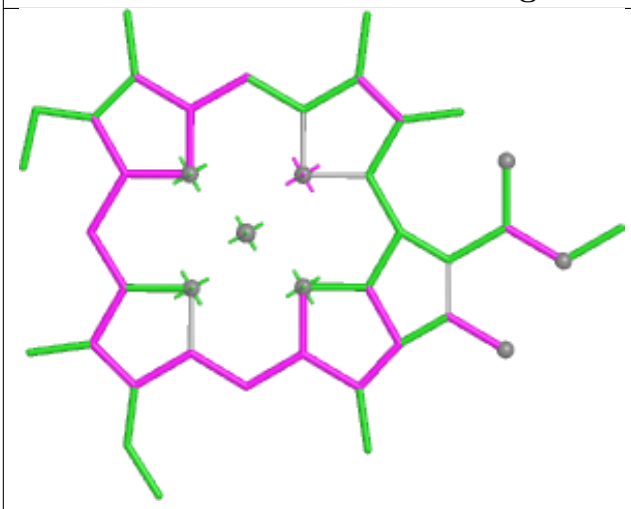


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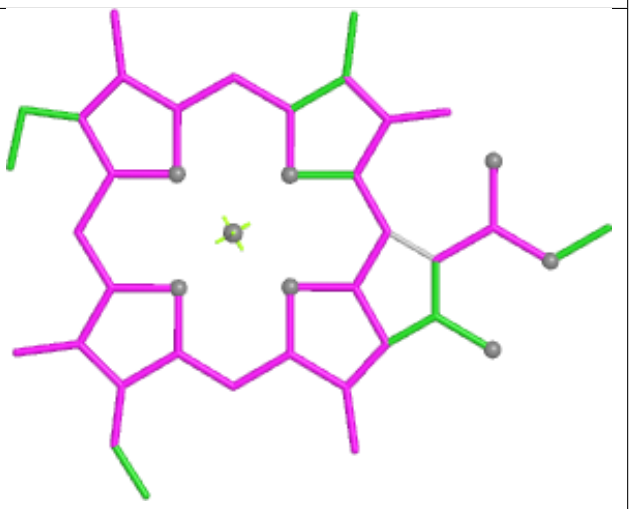


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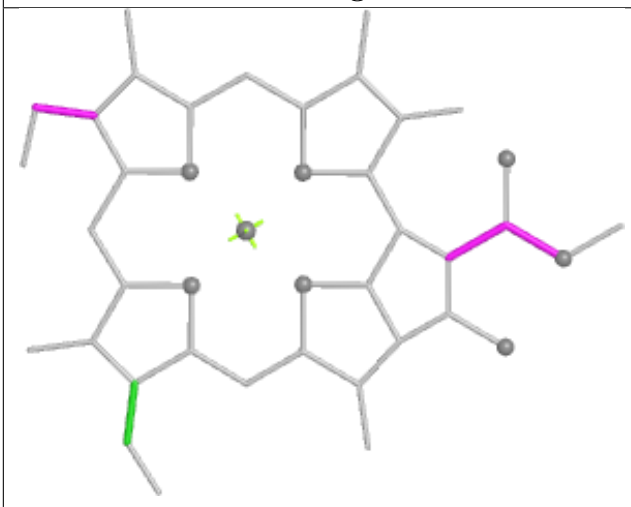
Ligand CLA 05 301



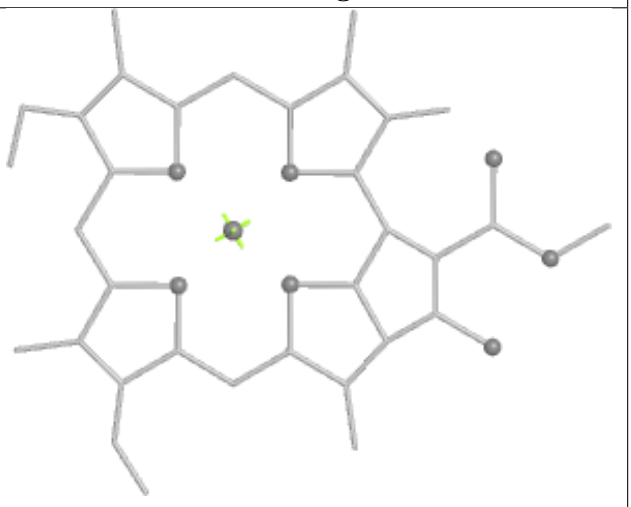
Bond lengths



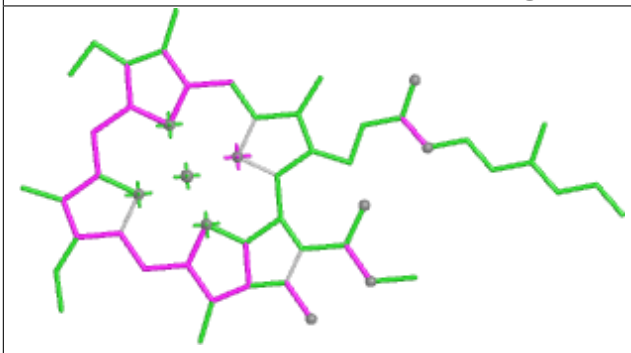
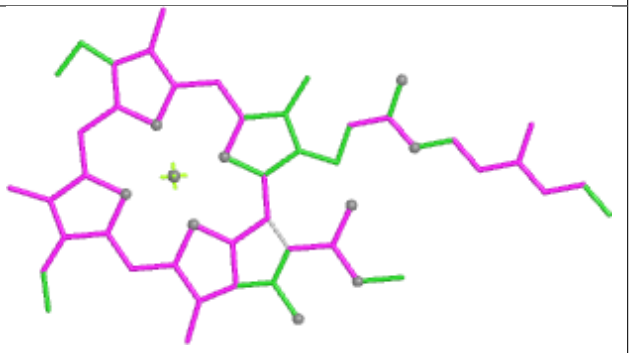
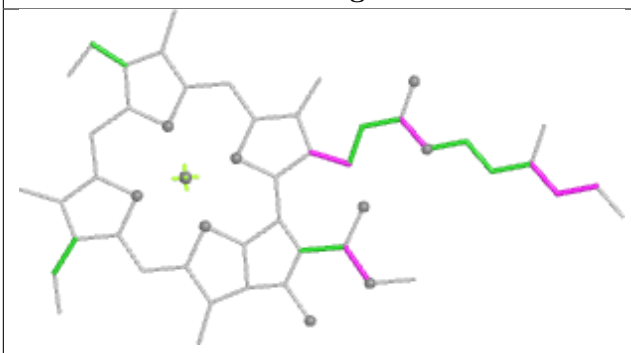
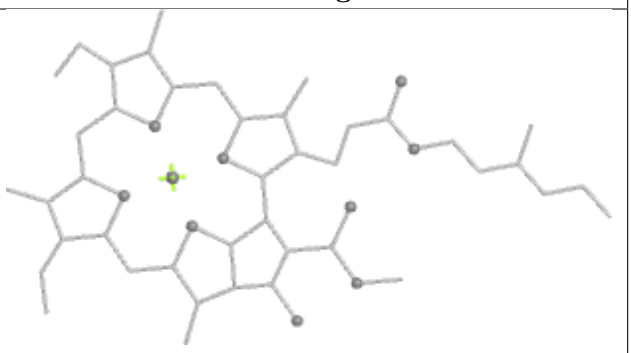
Bond angles



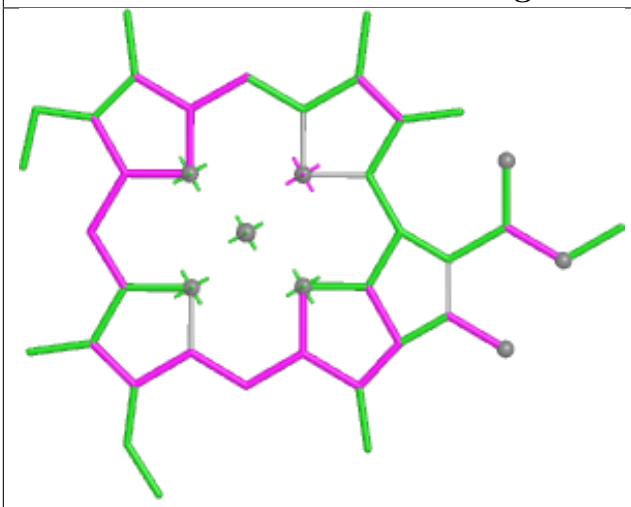
Torsions



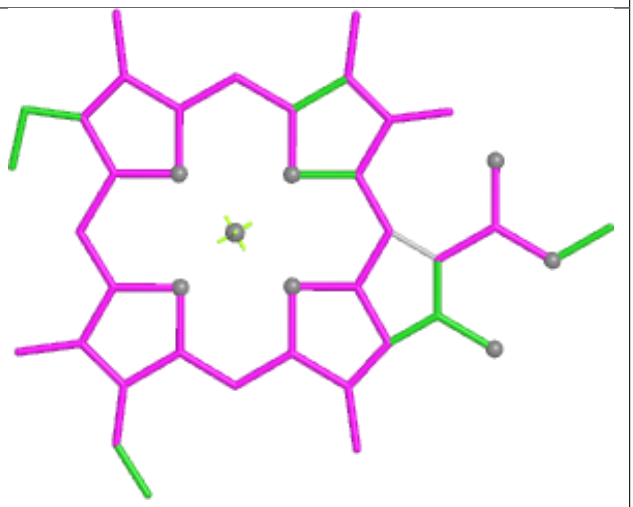
Rings

Ligand CLA 1r 308	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

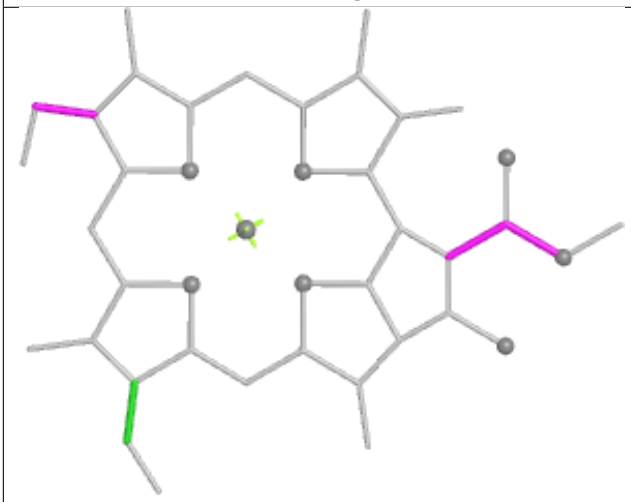
Ligand CLA 1G 604



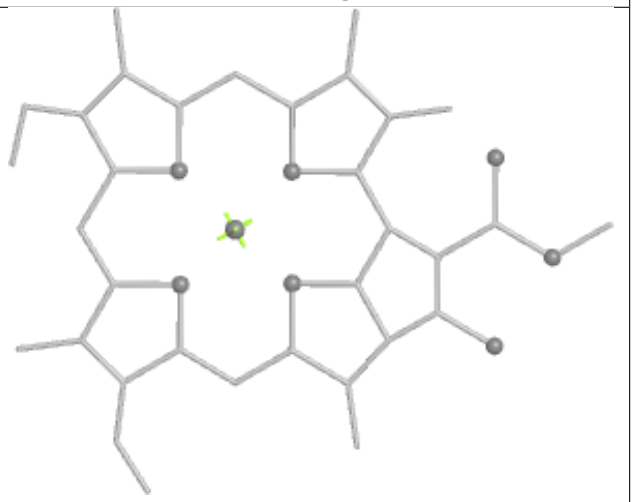
Bond lengths



Bond angles

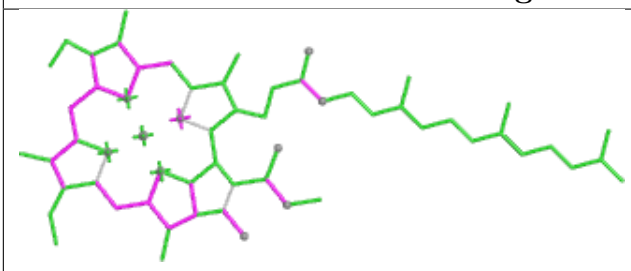


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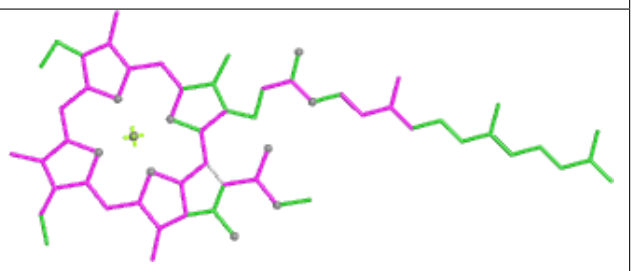


Rings

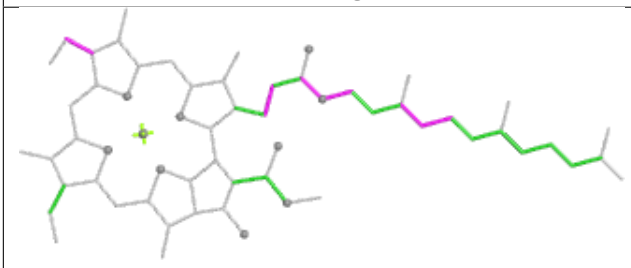
Ligand CLA 1R 302



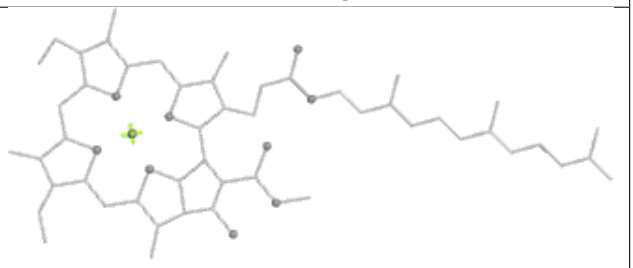
Bond lengths



Bond angles

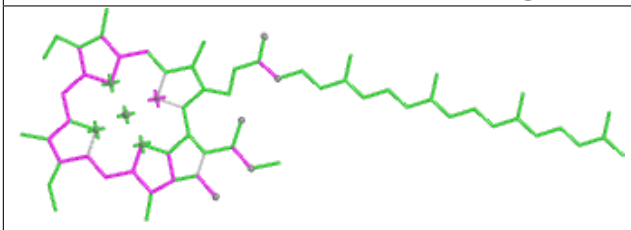


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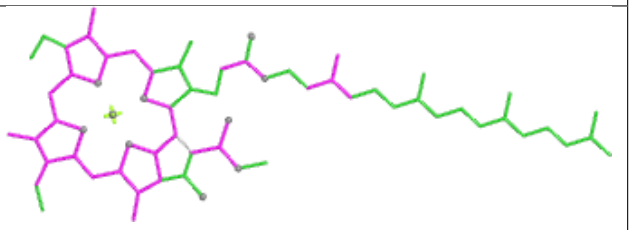


Rings

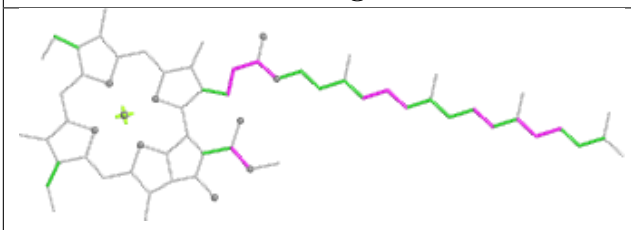
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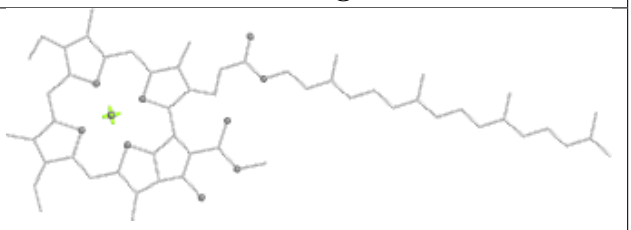
Bond lengths



Bond angles

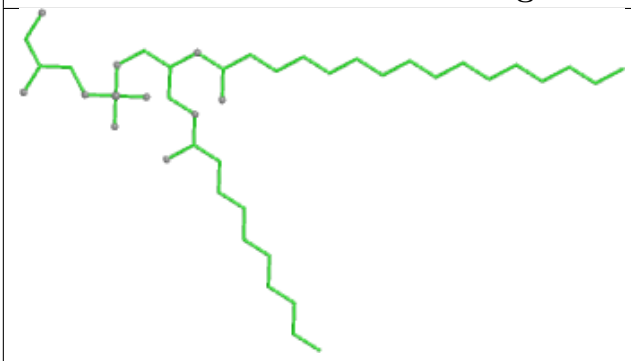


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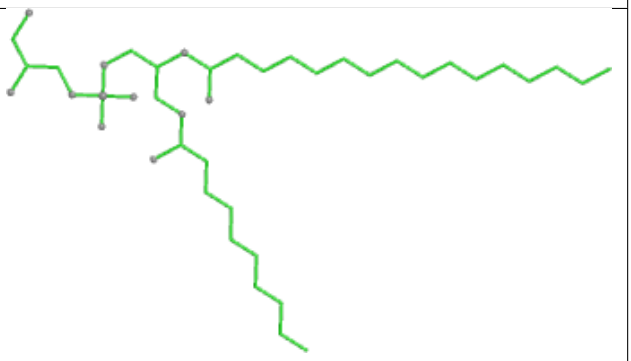


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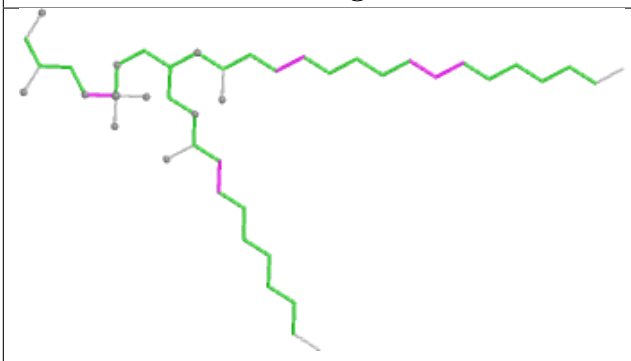
Ligand LHG 1n 616



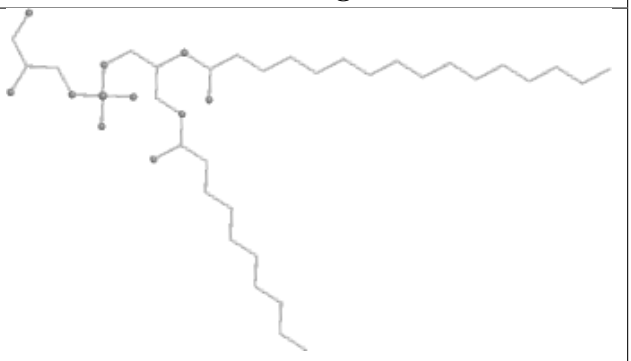
Bond lengths



Bond angles

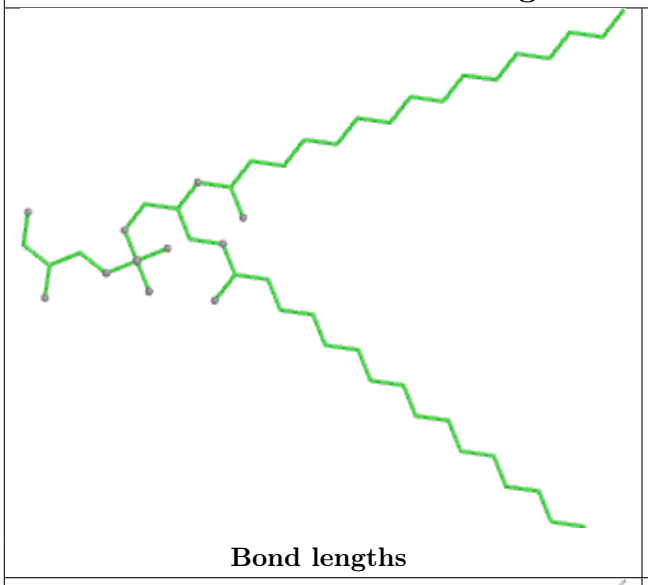


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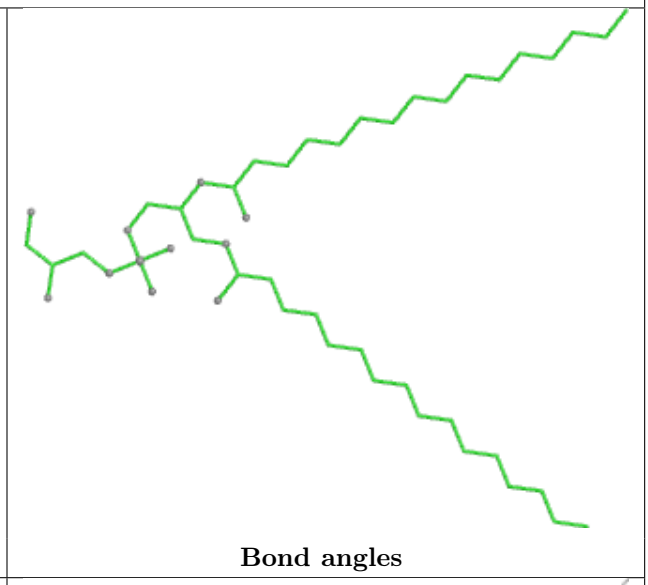


Rings

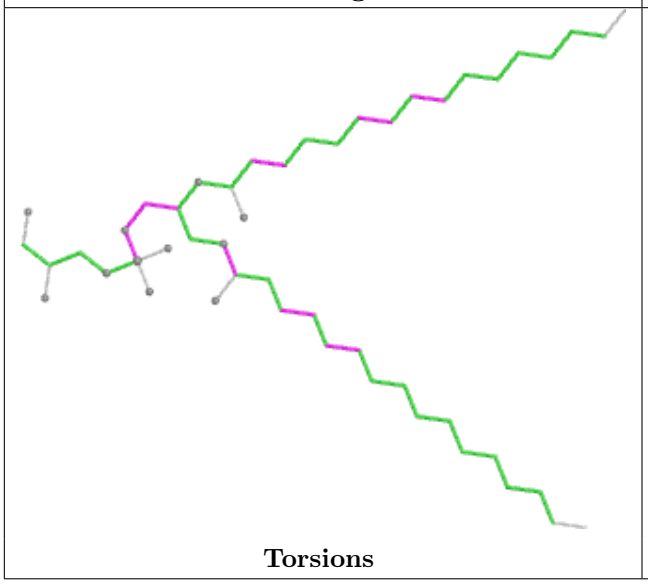
Ligand LHG 09 318



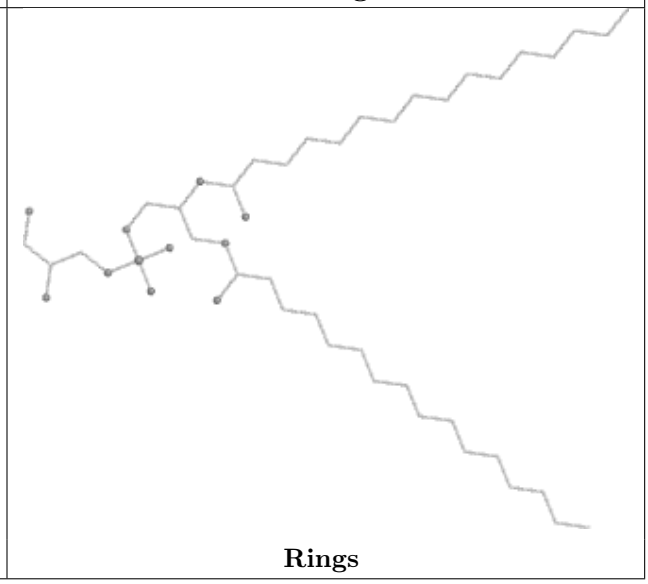
Bond lengths



Bond angles

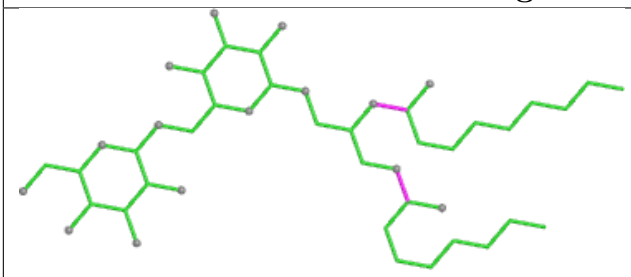


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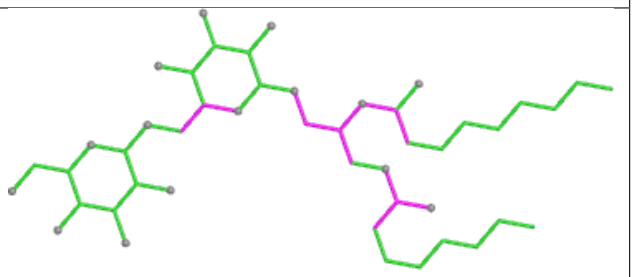


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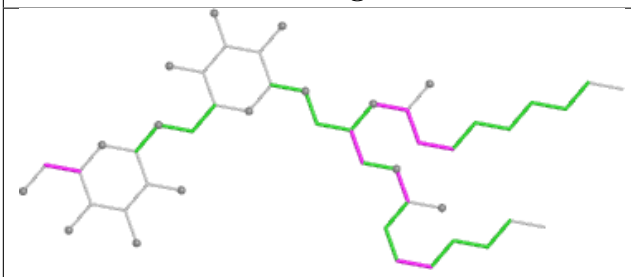
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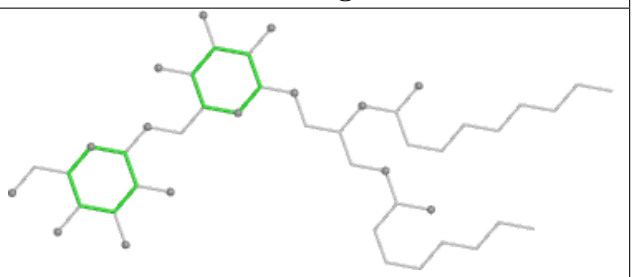
Bond lengths



Bond angles

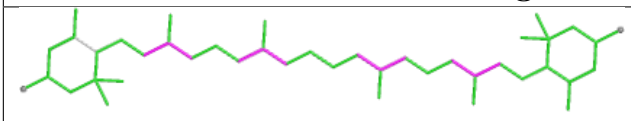


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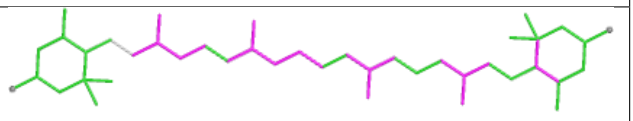


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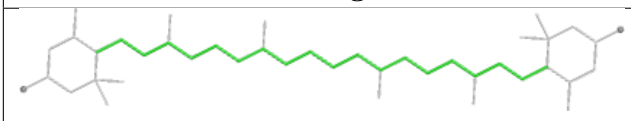
Ligand LUT 1R 315



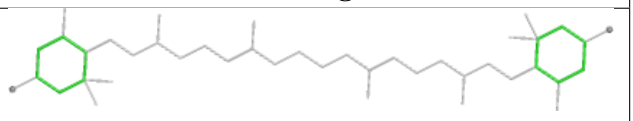
Bond lengths



Bond angles

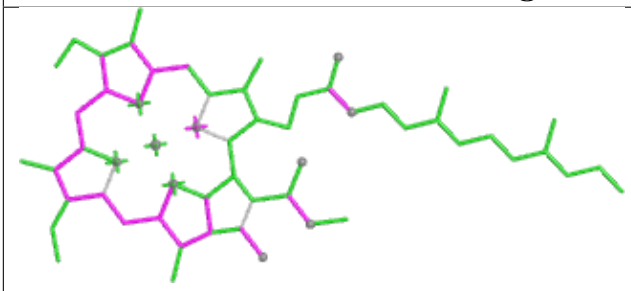


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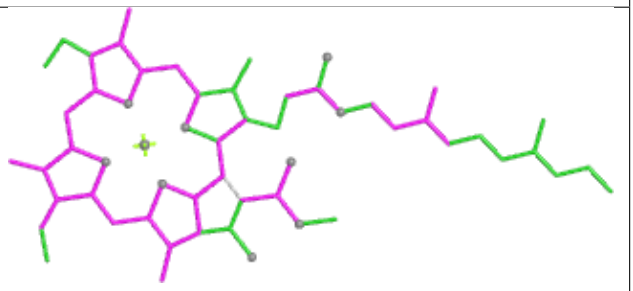


Rings

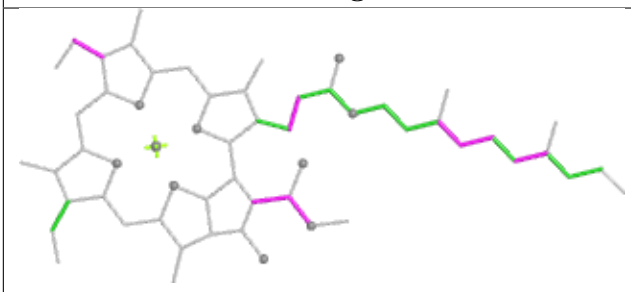
Ligand CLA 1n 603



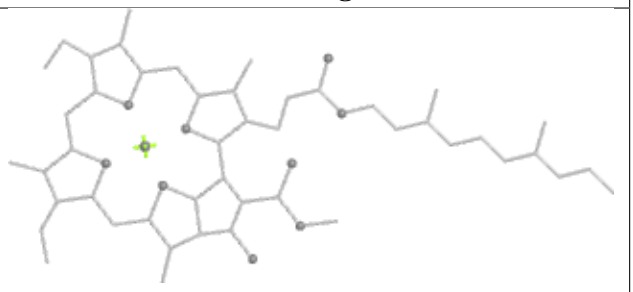
Bond lengths



Bond angles

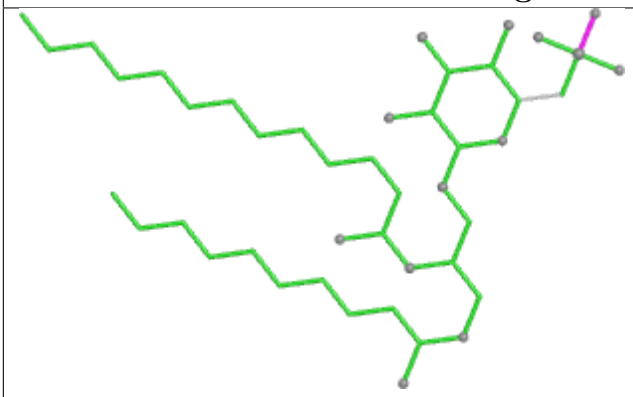


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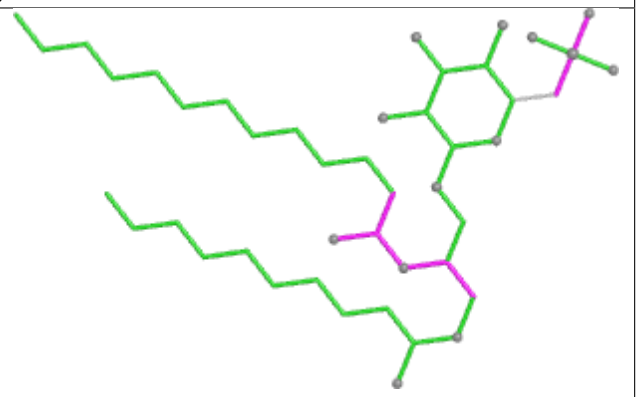


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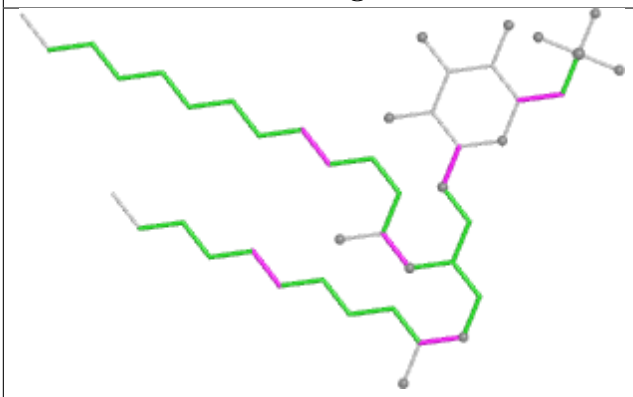
Ligand SQD 1A 413



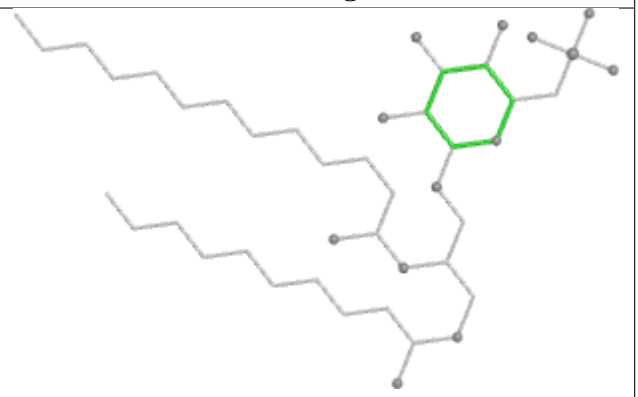
Bond lengths



Bond angles

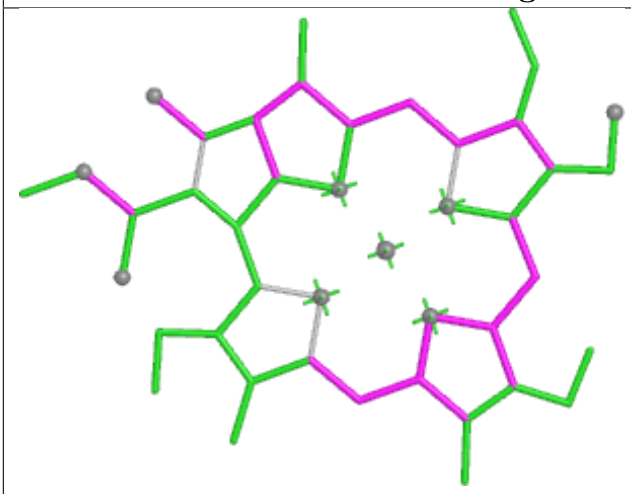


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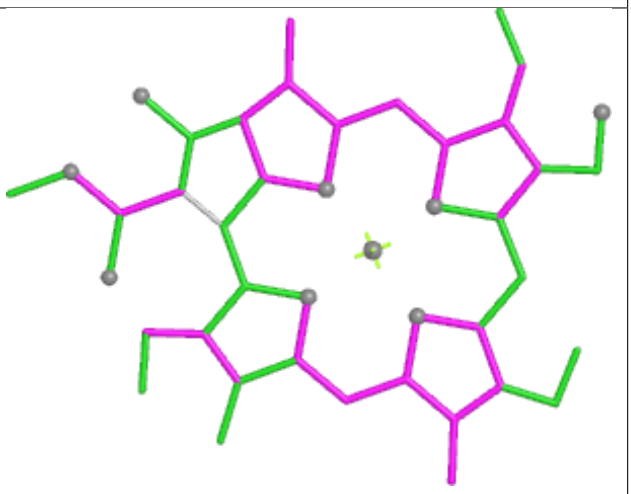


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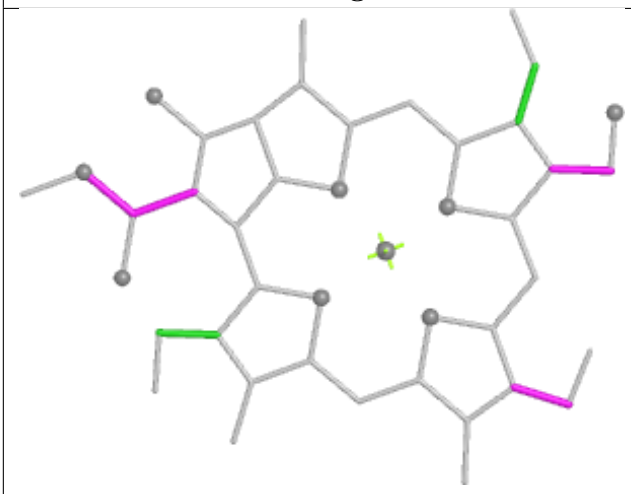
Ligand CHL 09 306



Bond lengths



Bond angles

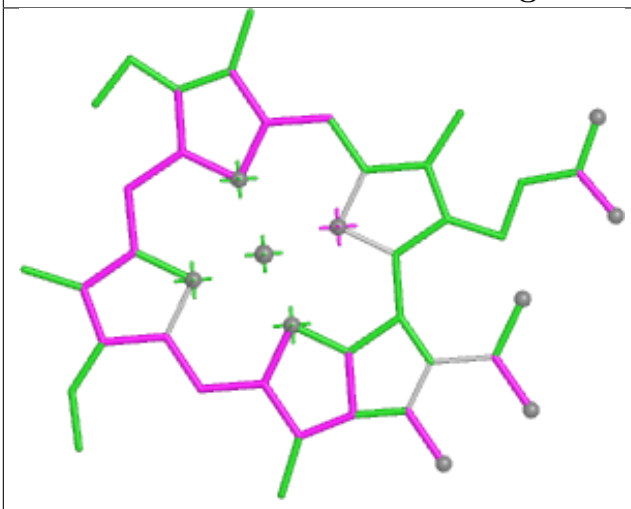


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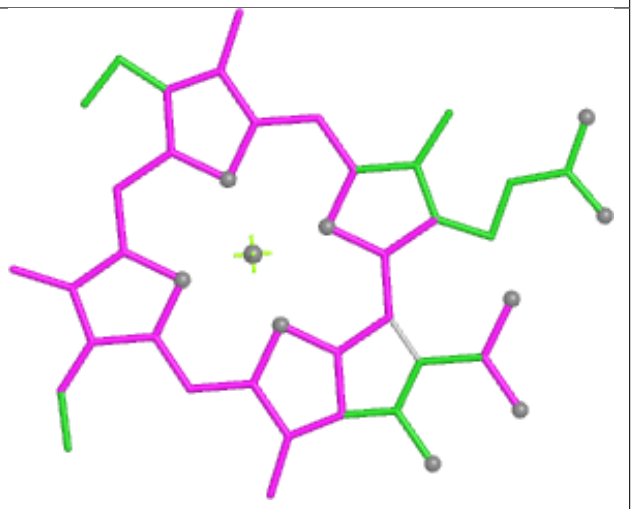


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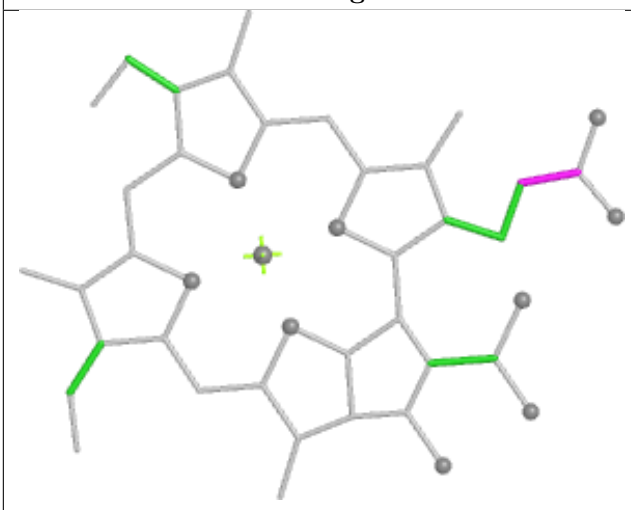
Ligand CLA 07 312



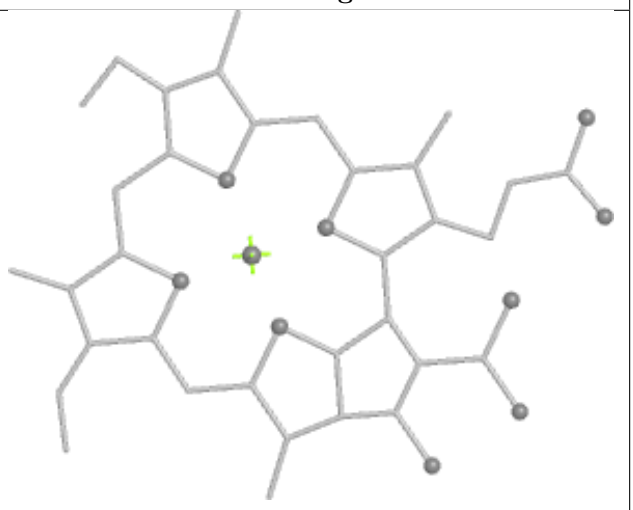
Bond lengths



Bond angles

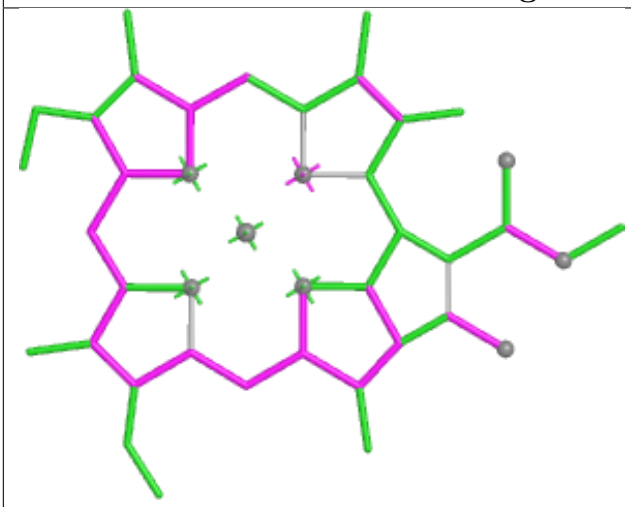


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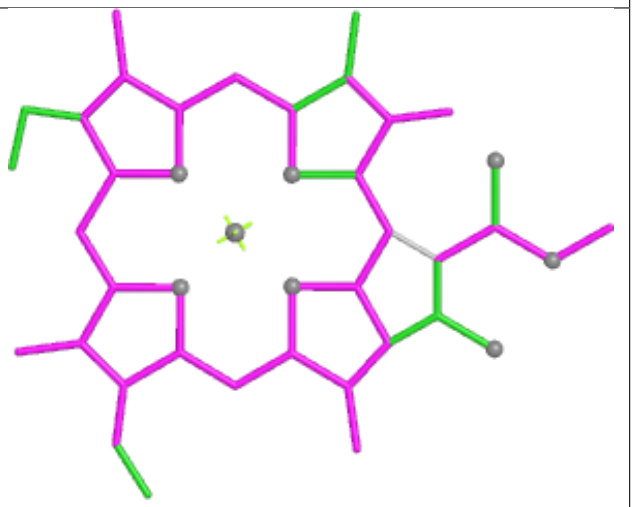


Rings

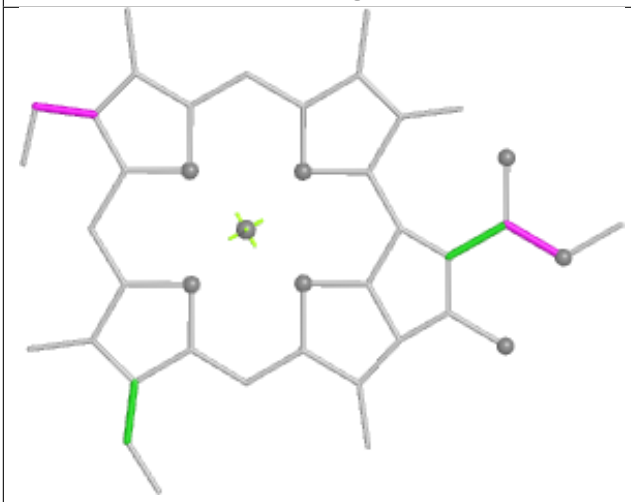
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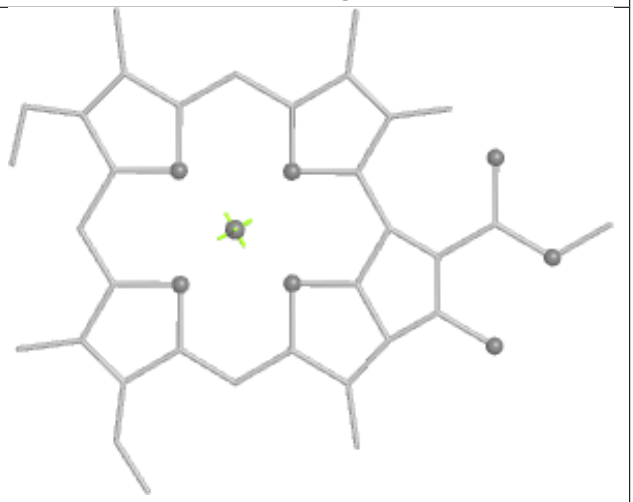
Bond lengths



Bond angles

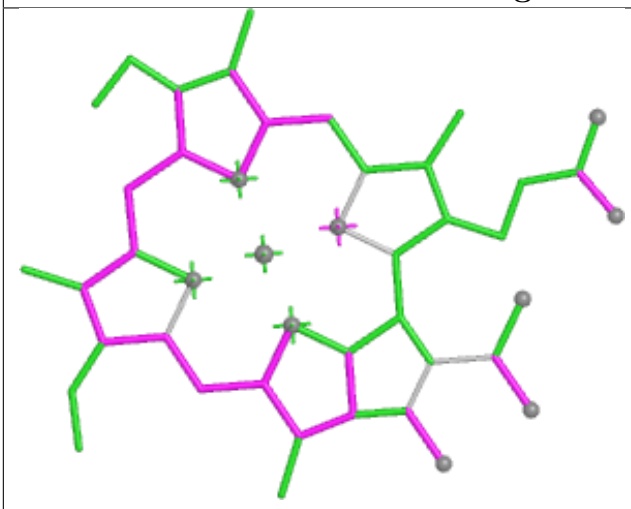


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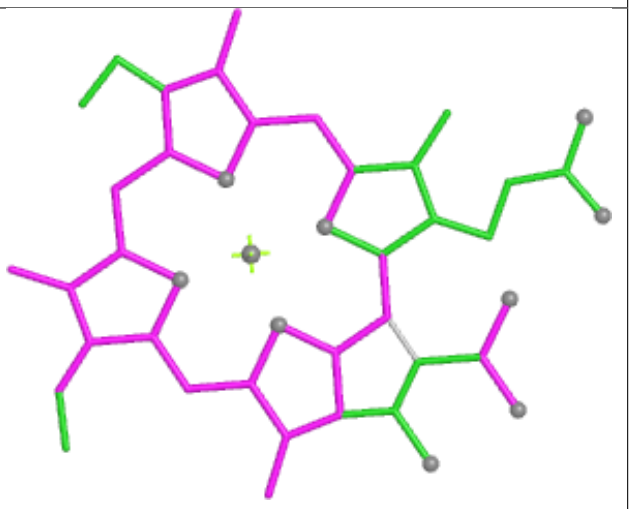


Rings

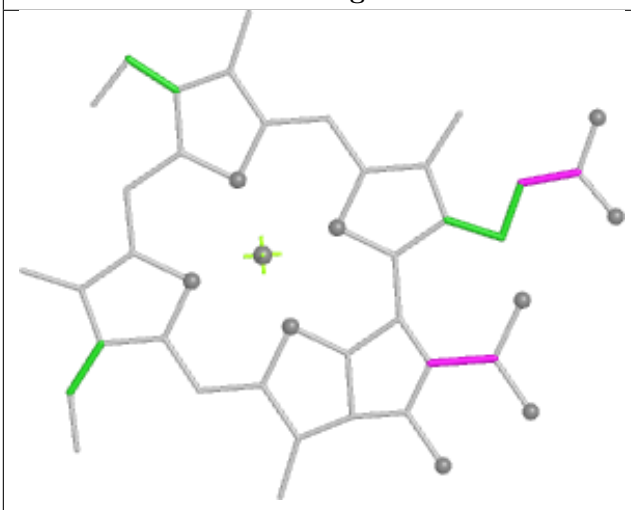
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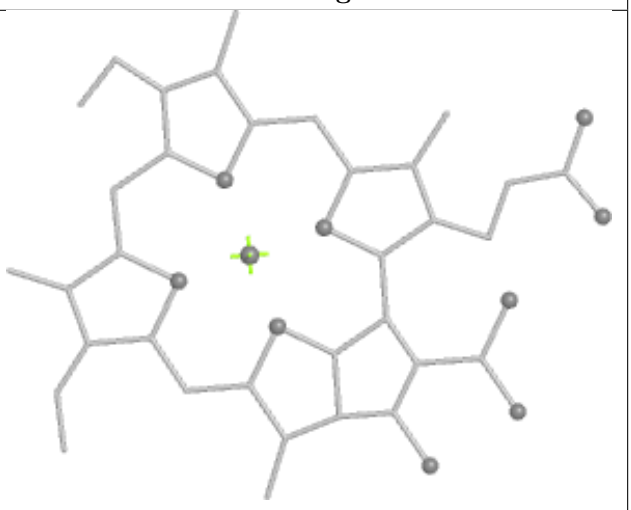
Bond lengths



Bond angles

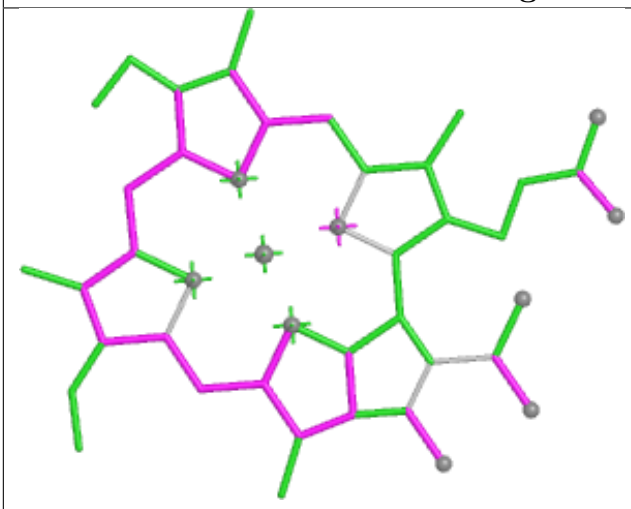


Torsions

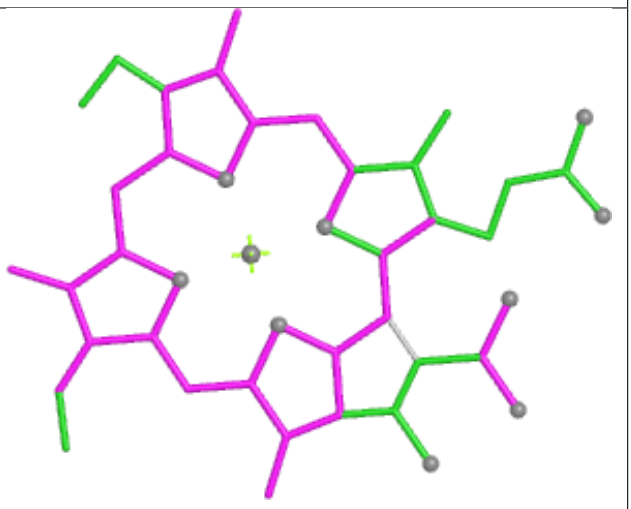


Rings

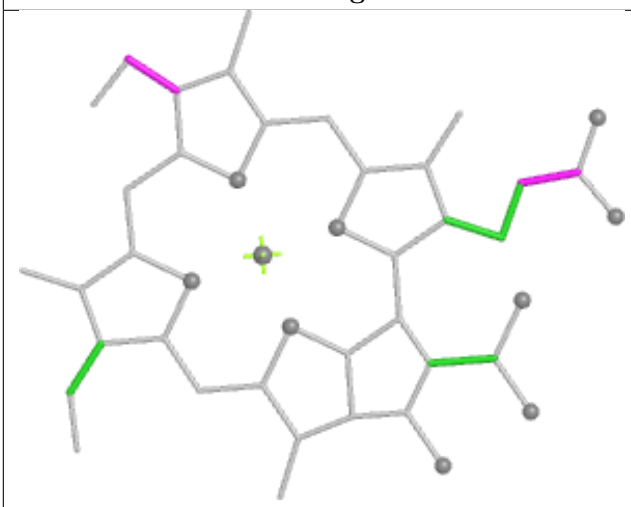
Ligand CLA 04 307



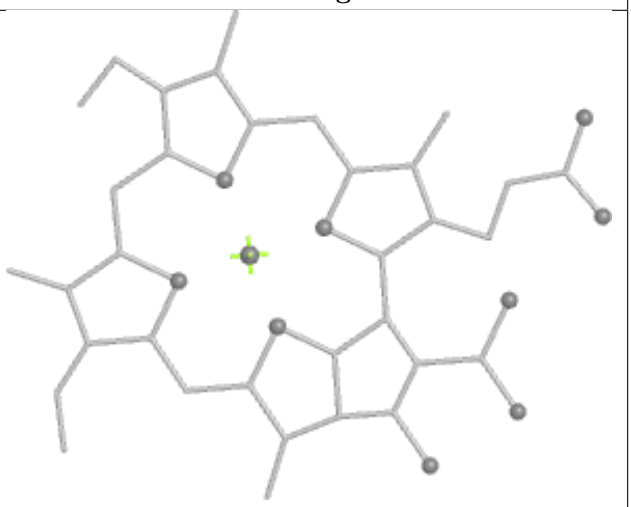
Bond lengths



Bond angles

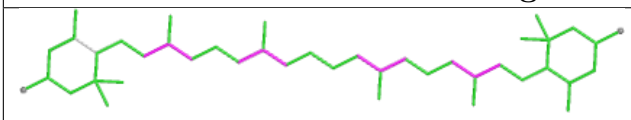


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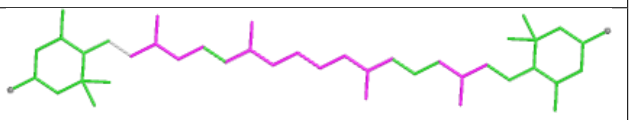


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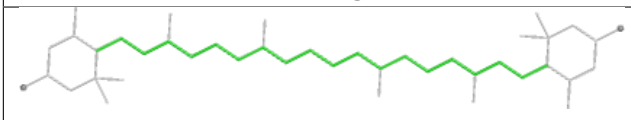
Ligand LUT 09 313



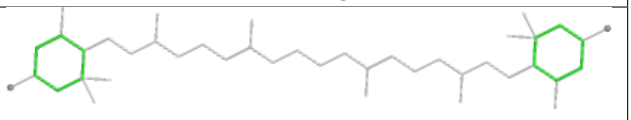
Bond lengths



Bond angles

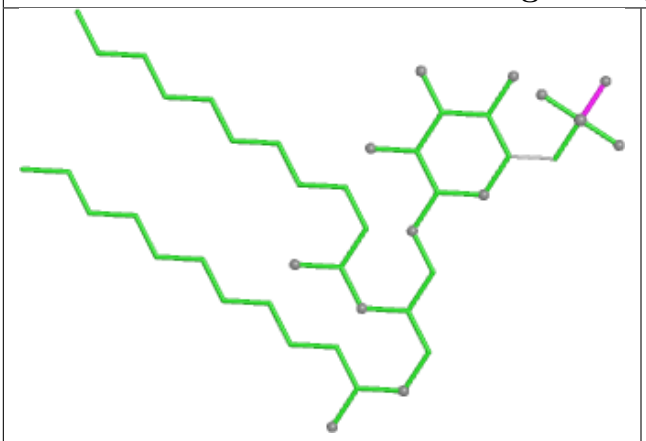


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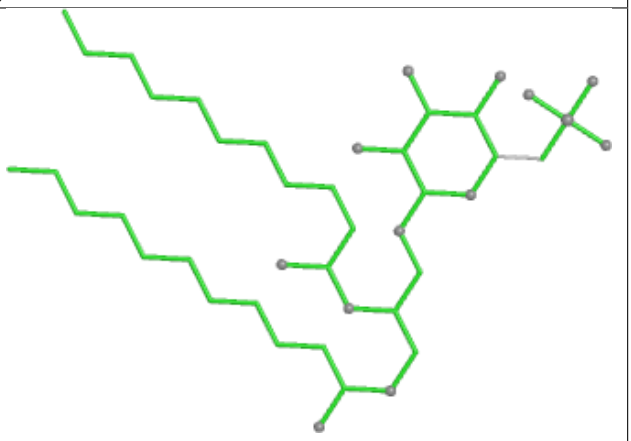


Rings

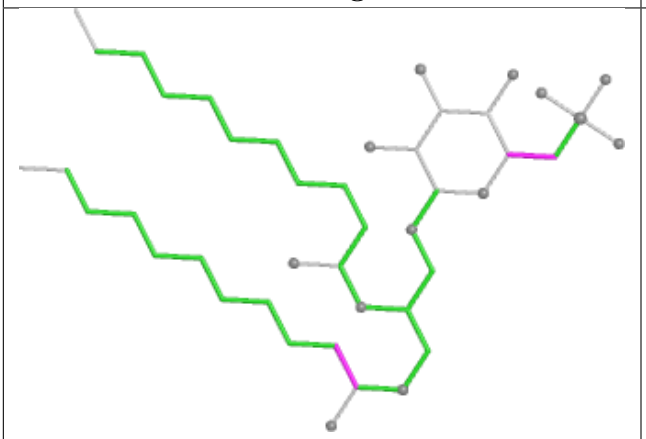
Ligand SQD 1s 301



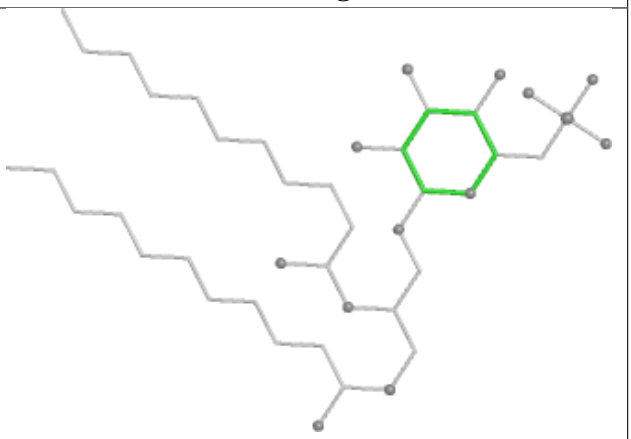
Bond lengths



Bond angles

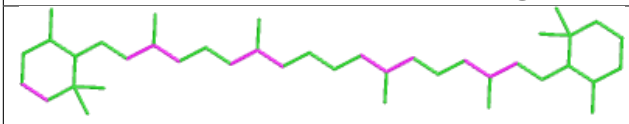


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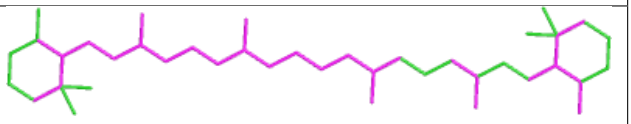


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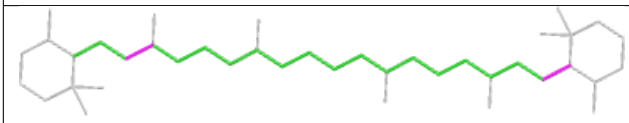
Ligand BCR 1B 619



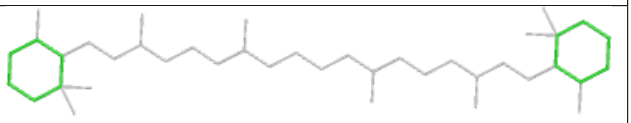
Bond lengths



Bond angles

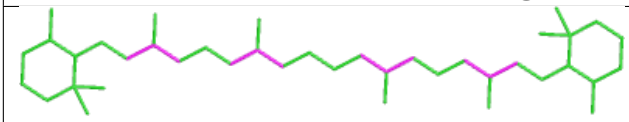


Torsions



Rings

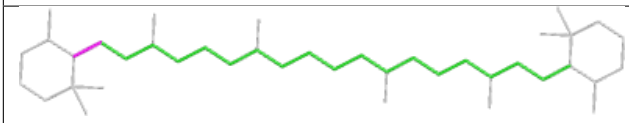
Ligand BCR 1a 409



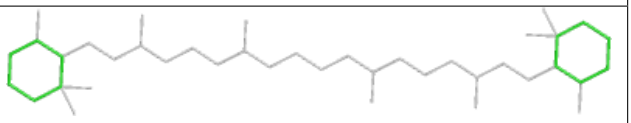
Bond lengths



Bond angles

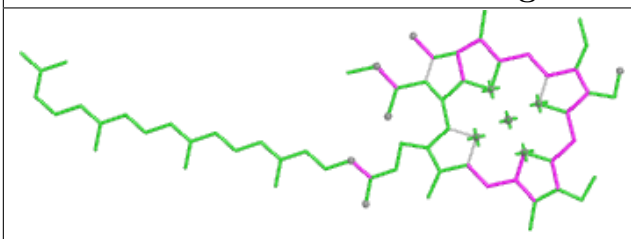


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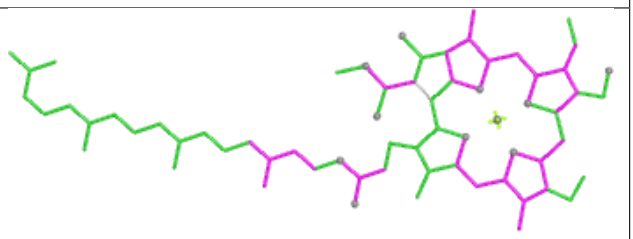


Rings

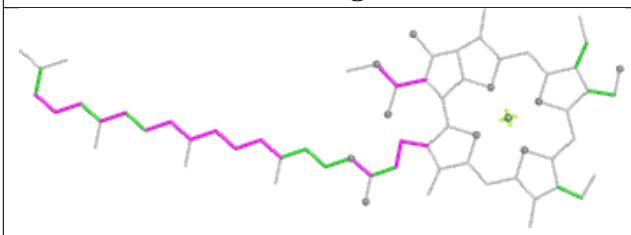
Ligand CHL 00 307



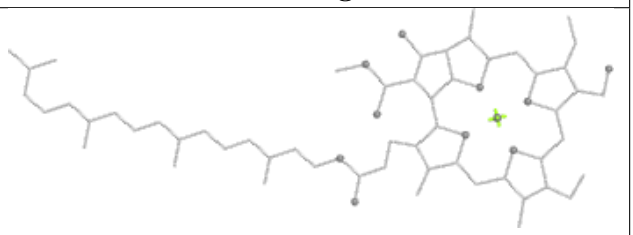
Bond lengths



Bond angles

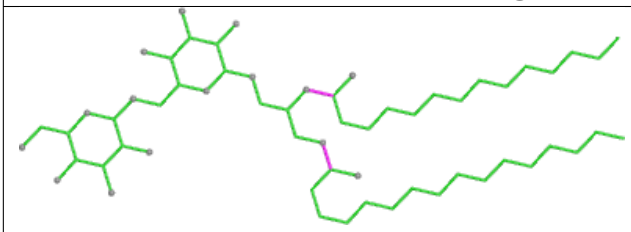


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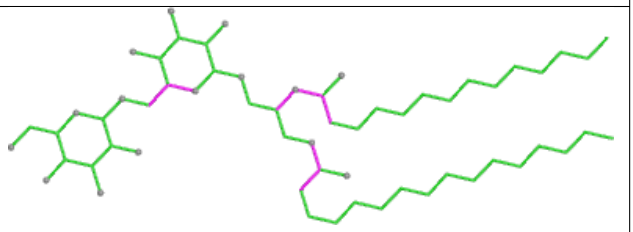


Rings

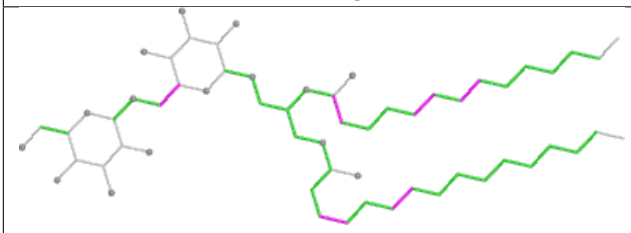
Ligand DGD 1C 518



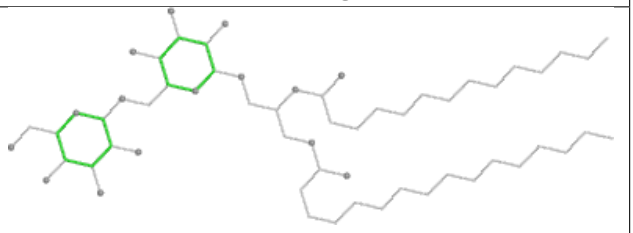
Bond lengths



Bond angles

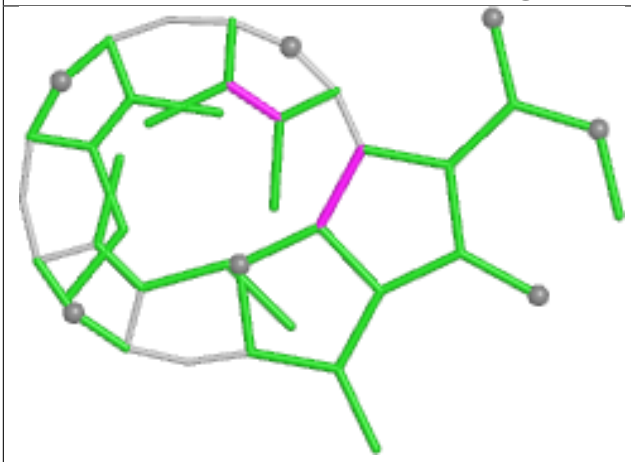


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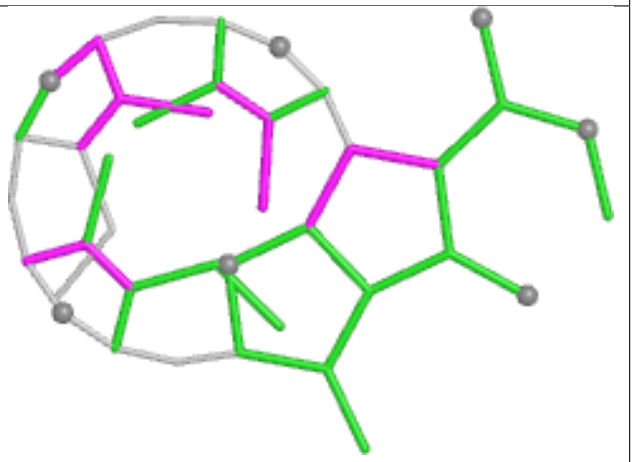


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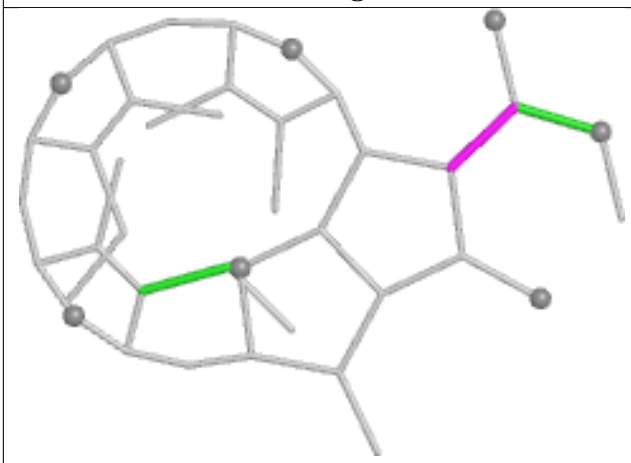
Ligand PHO 1a 407



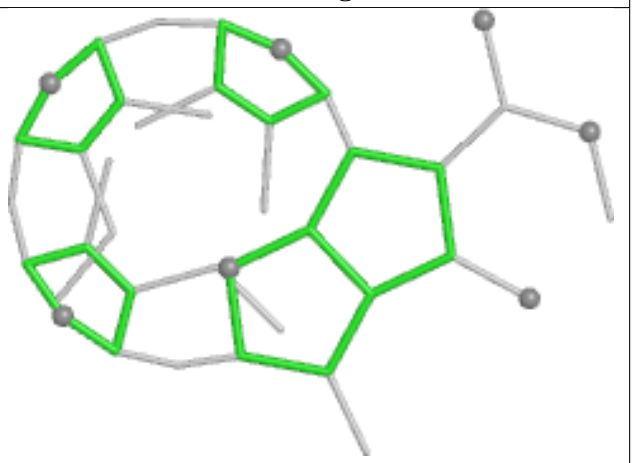
Bond lengths



Bond angles

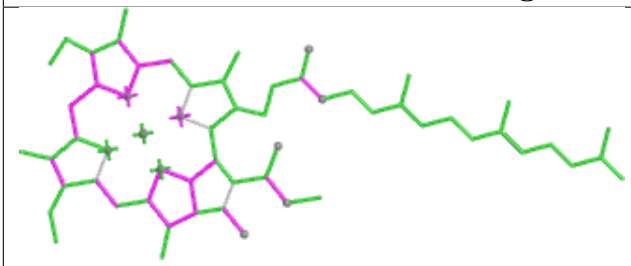


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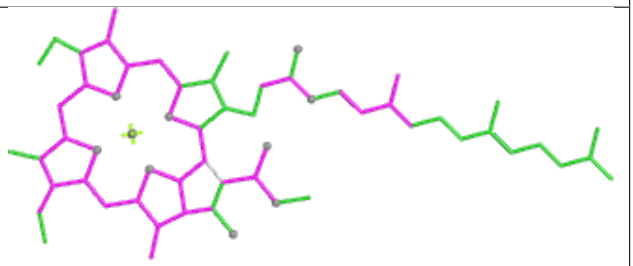


Rings

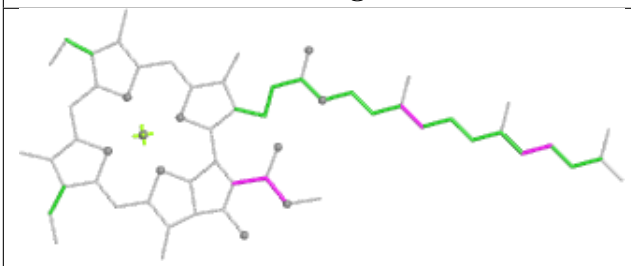
Ligand CLA 1b 614



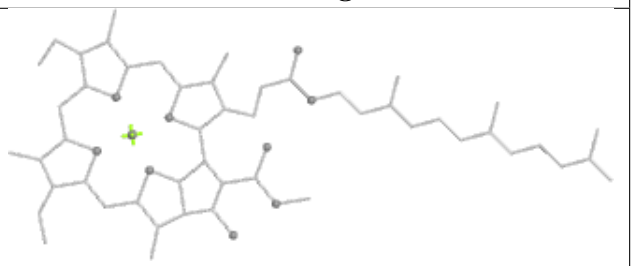
Bond lengths



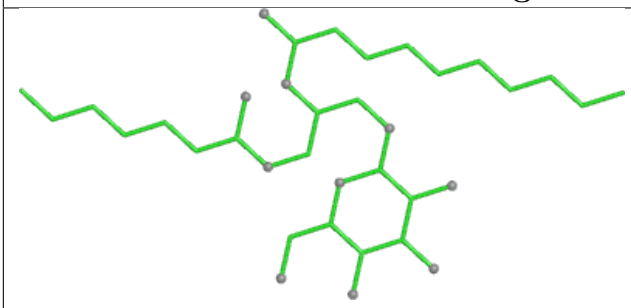
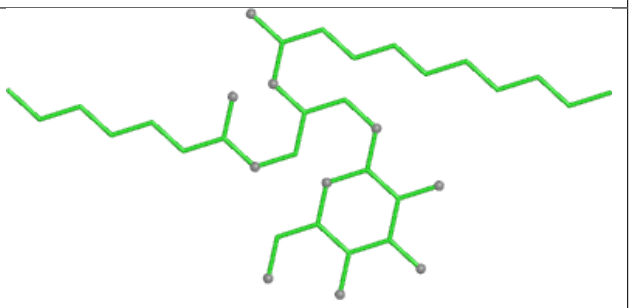
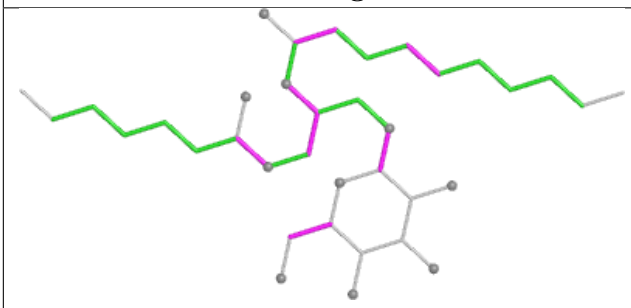
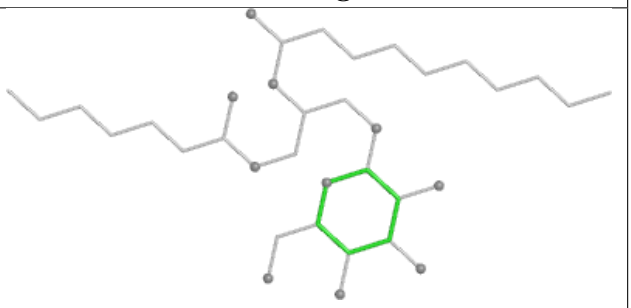
Bond angles



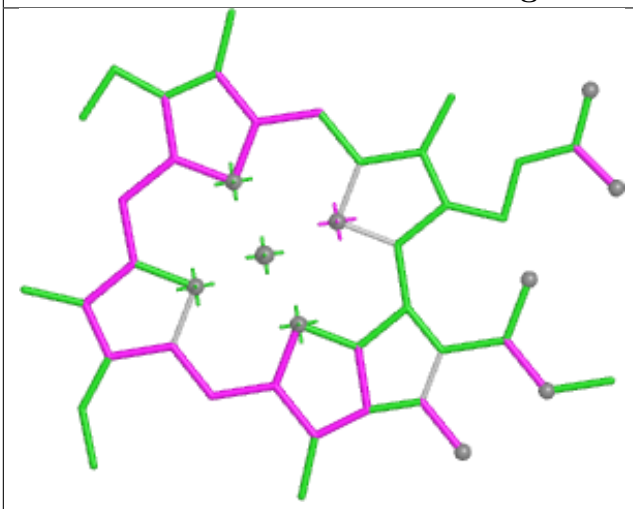
Torsions



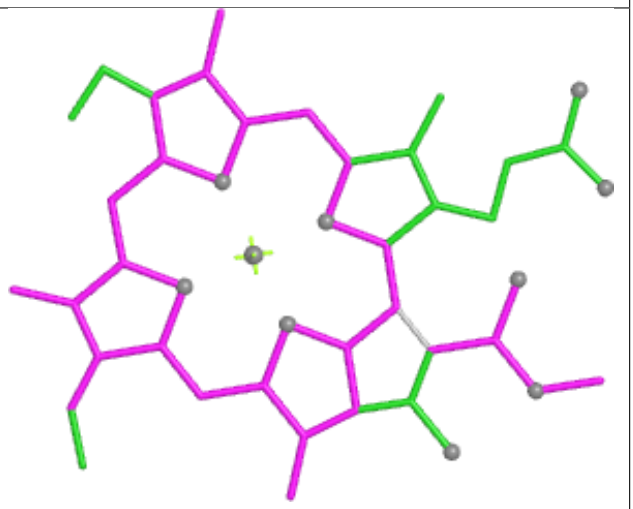
Rings

Ligand MGE 1k 101	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

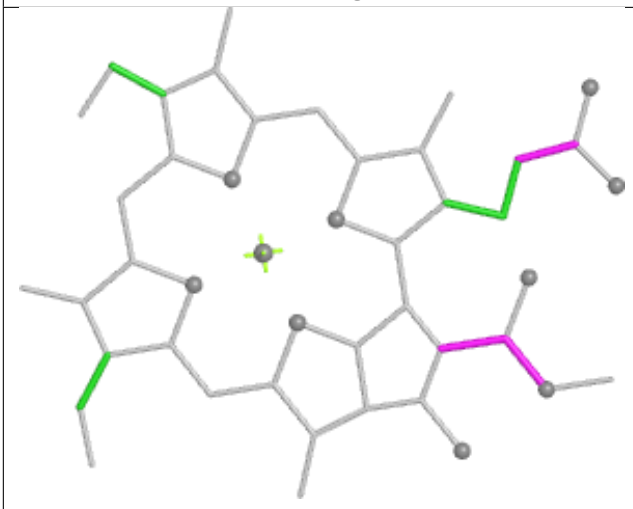
Ligand CLA 1c 511



Bond lengths



Bond angles

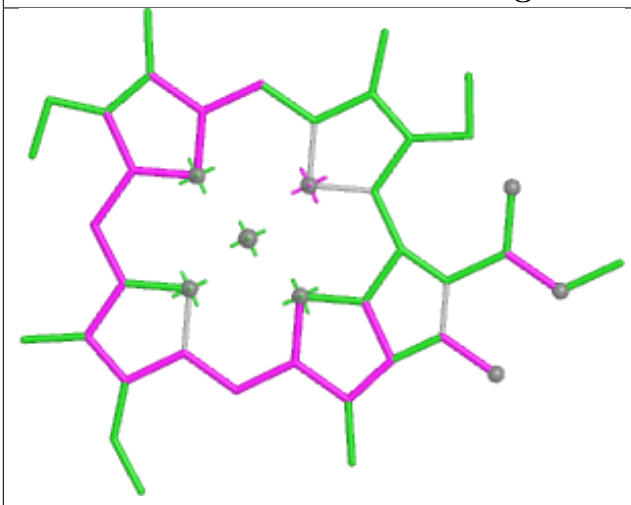


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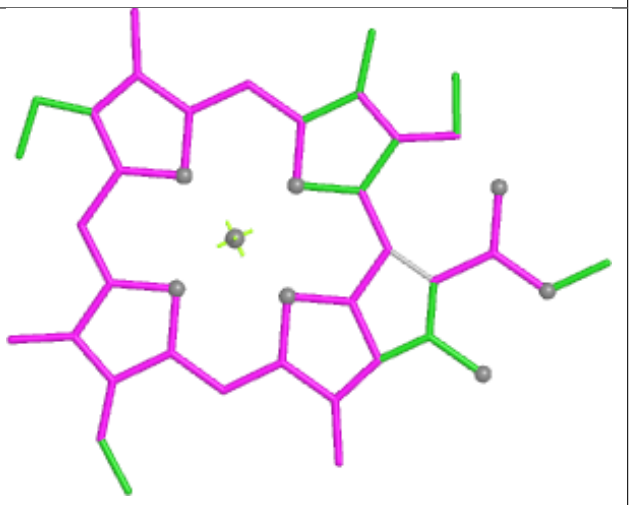


Rings

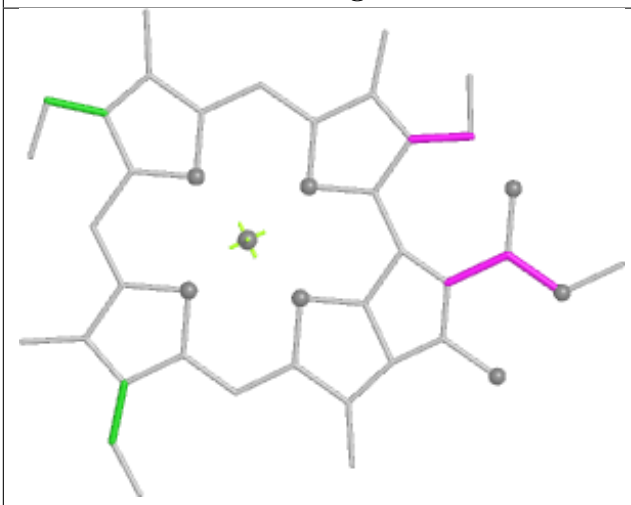
Ligand CLA 1D 405



Bond lengths



Bond angles

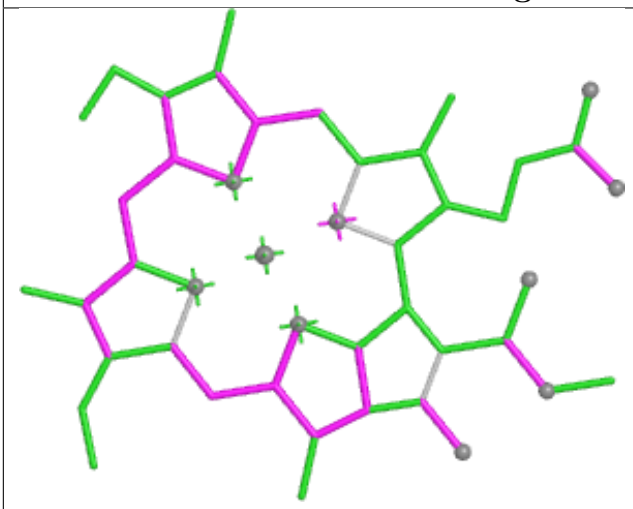


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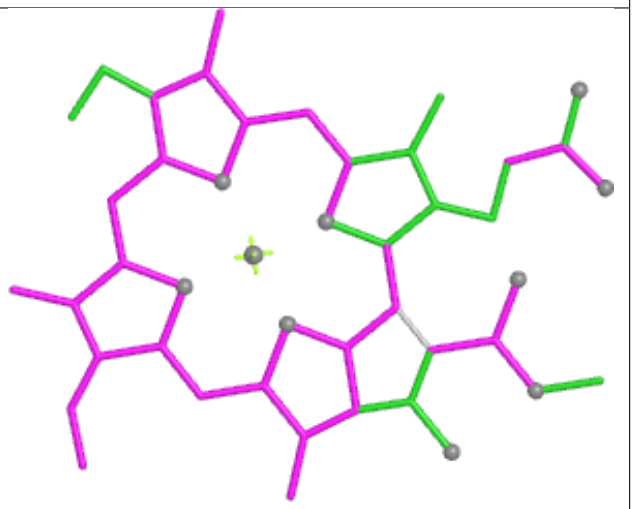


Rings

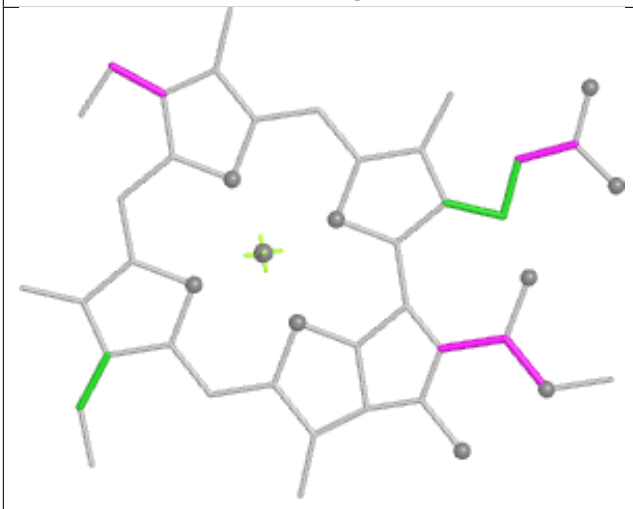
Ligand CLA 1G 603



Bond lengths



Bond angles

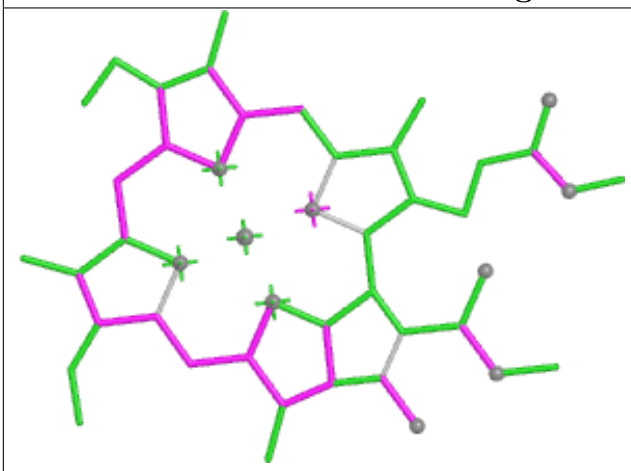


Torsions

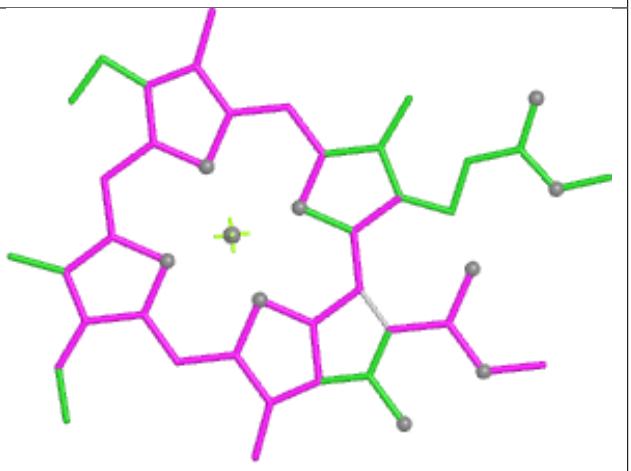


Rings

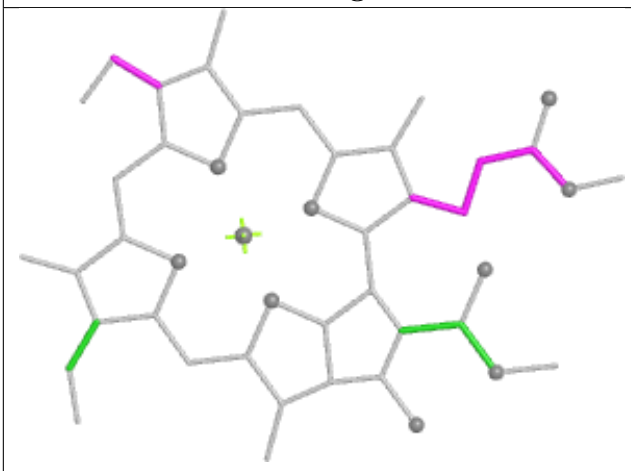
Ligand CLA 1R 312



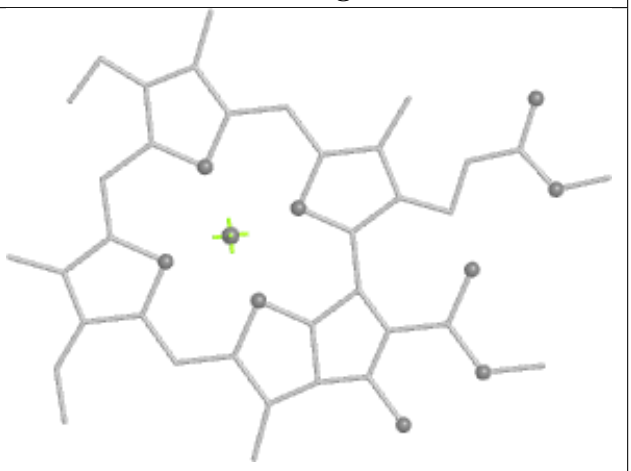
Bond lengths



Bond angles

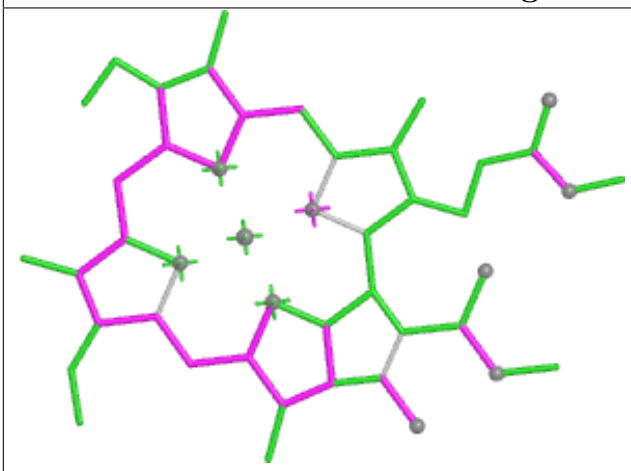


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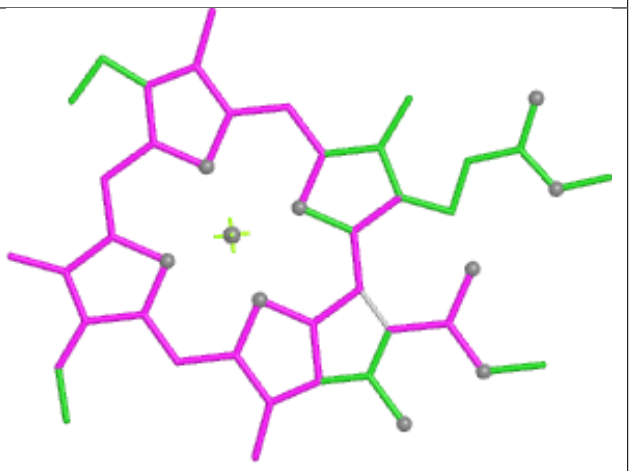


Rings

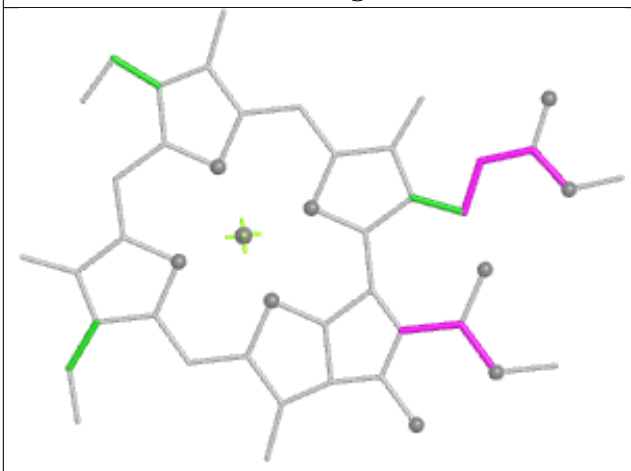
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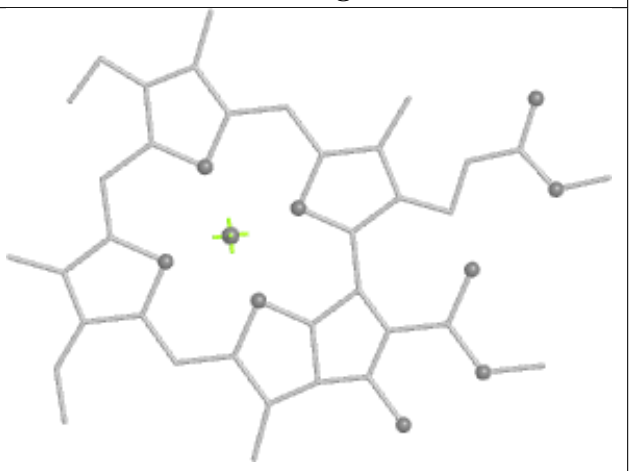
Bond lengths



Bond angles

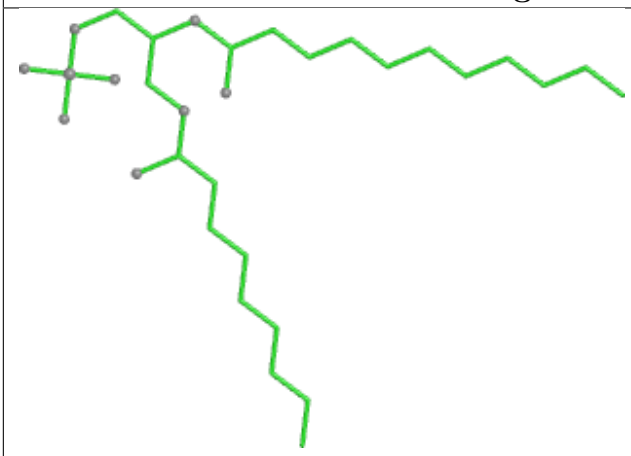


Torsions

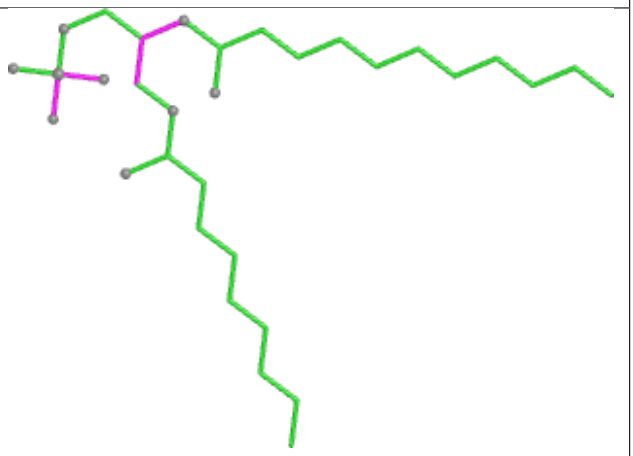


Rings

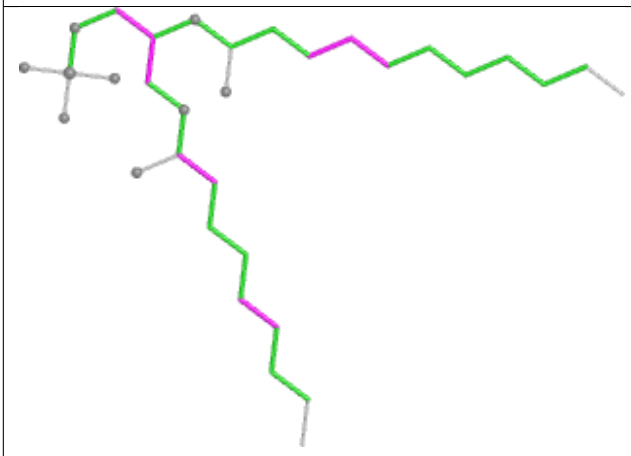
Ligand LHG 1C 526



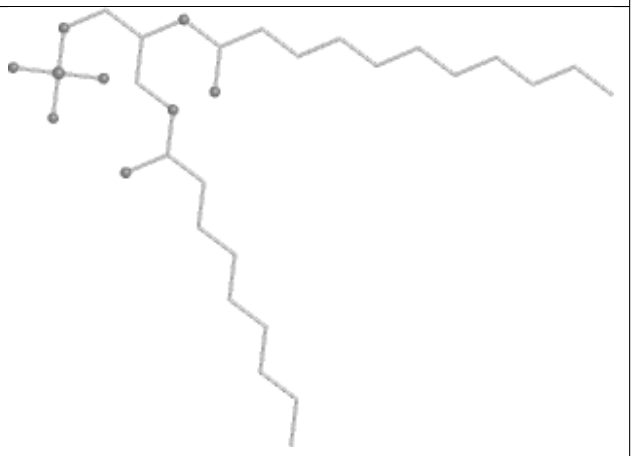
Bond lengths



Bond angles

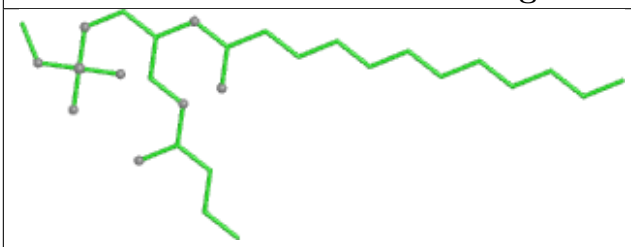


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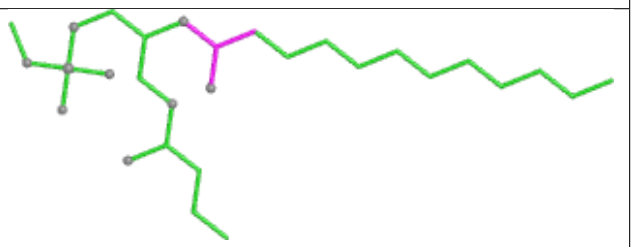


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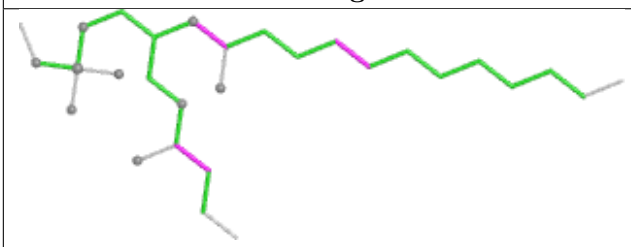
Ligand LHG 1r 317



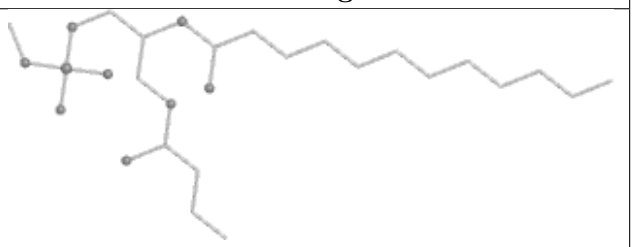
Bond lengths



Bond angles

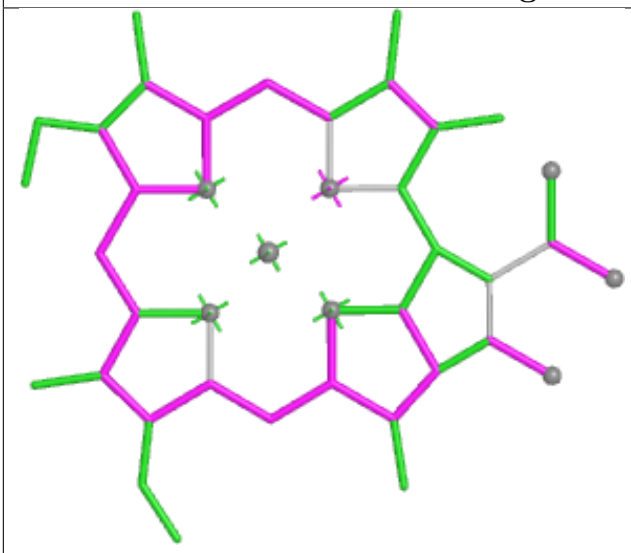


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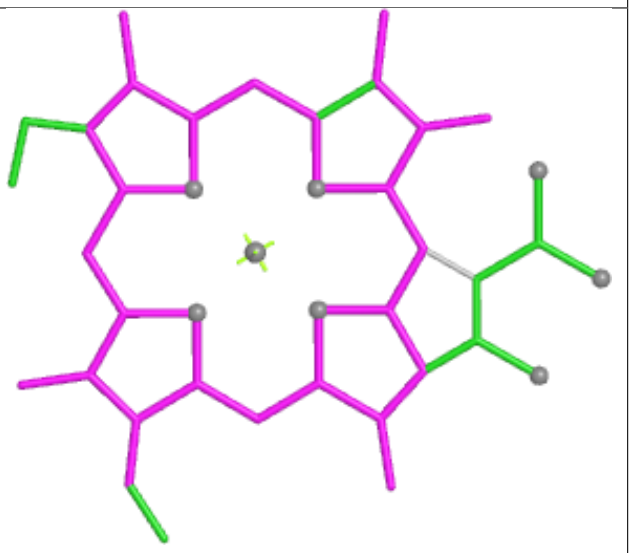


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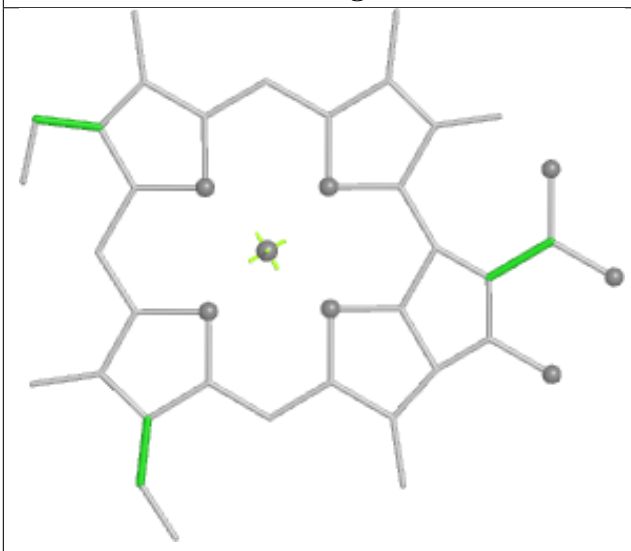
Ligand CLA 05 312



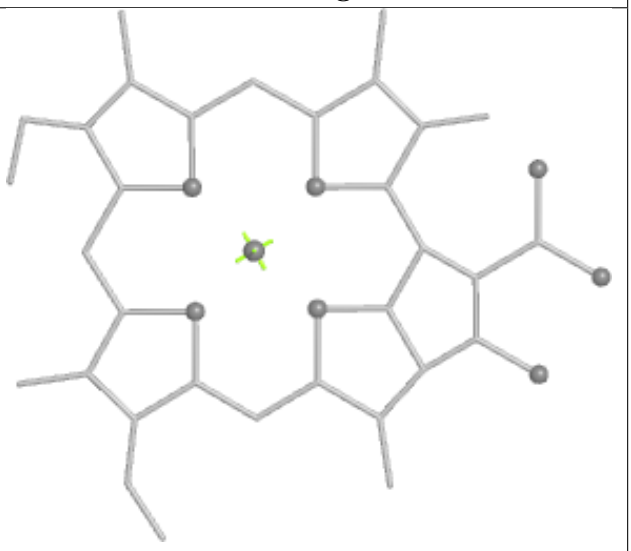
Bond lengths



Bond angles

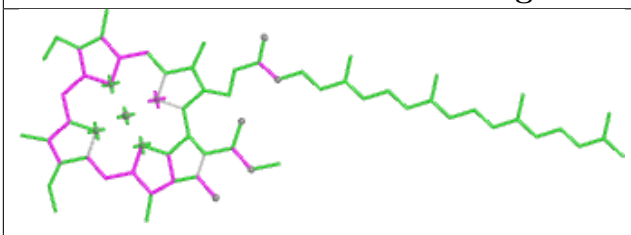


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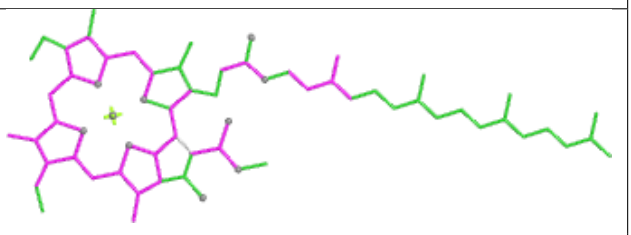


Rings

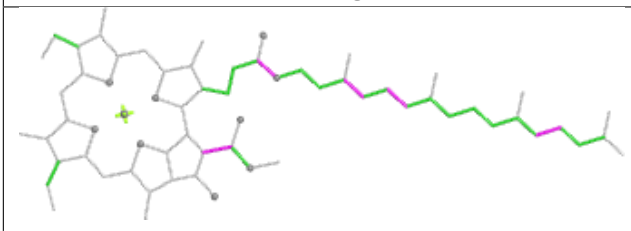
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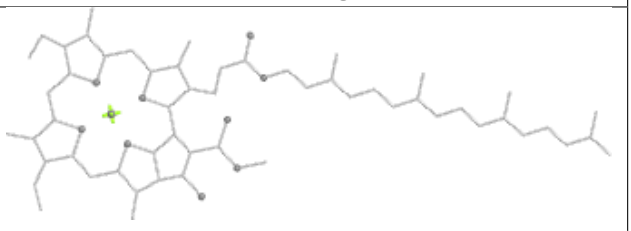
Bond lengths



Bond angles

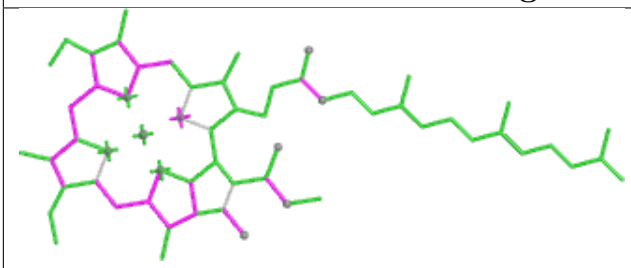


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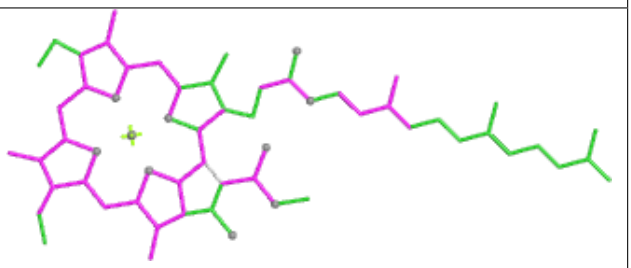


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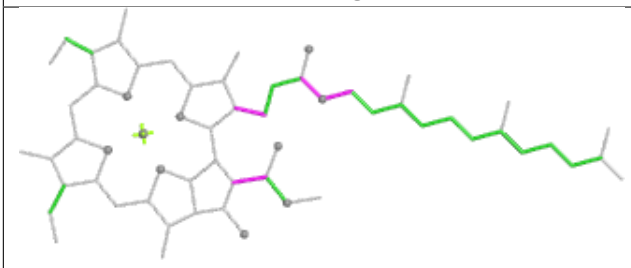
Ligand CLA 1a 408



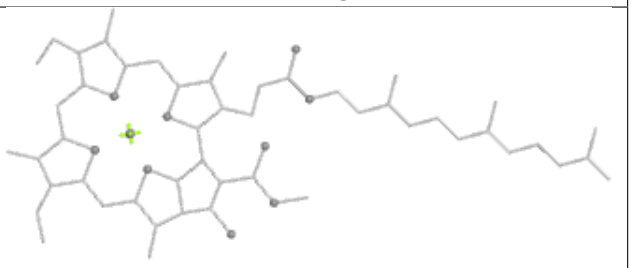
Bond lengths



Bond angles

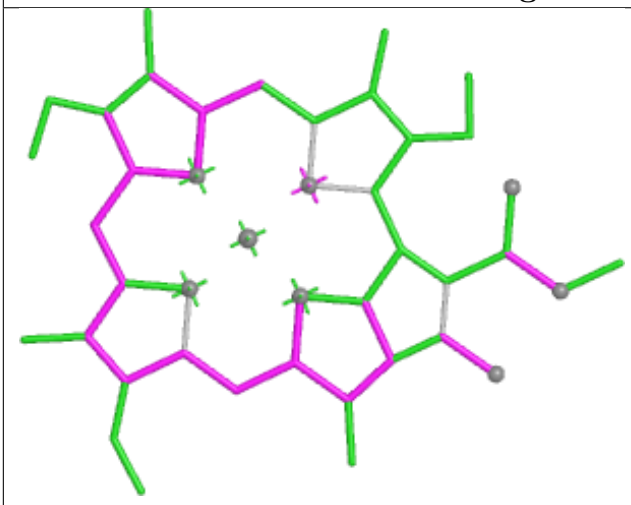


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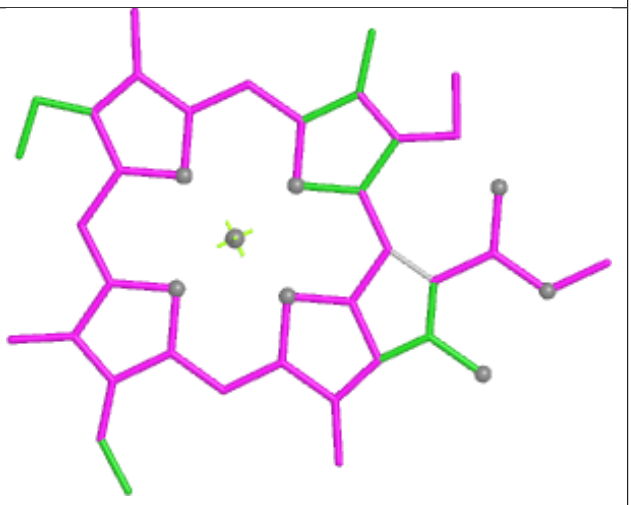


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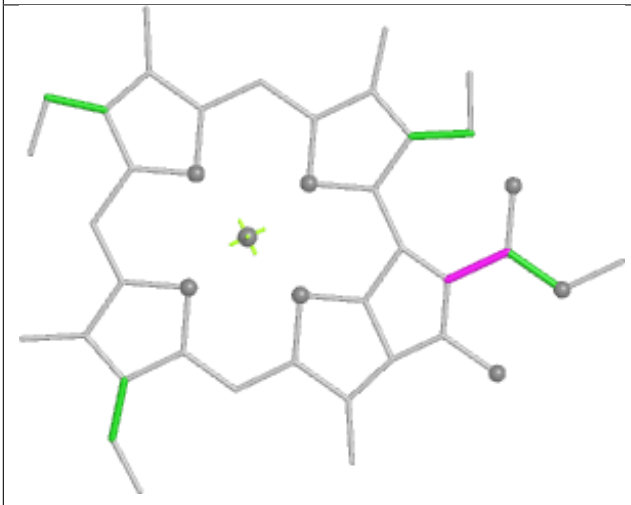
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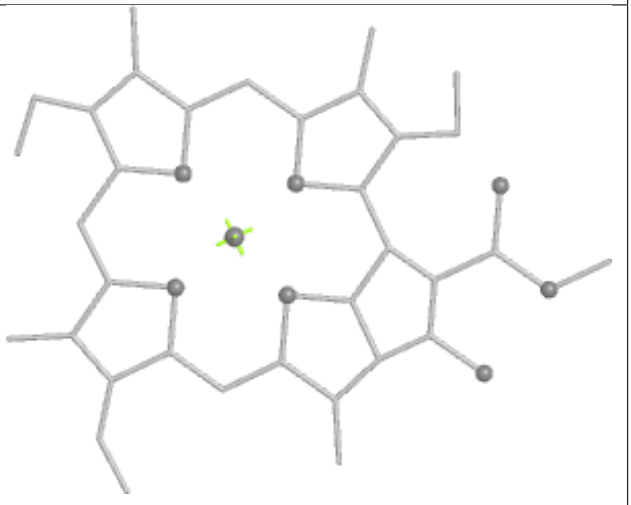
Bond lengths



Bond angles

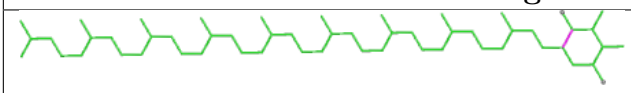


Torsions



Rings

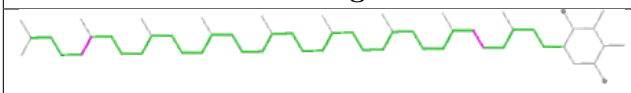
Ligand PL9 1d 410



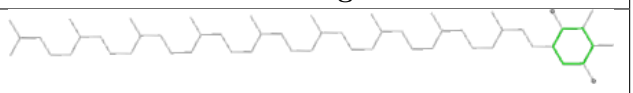
Bond lengths



Bond angles

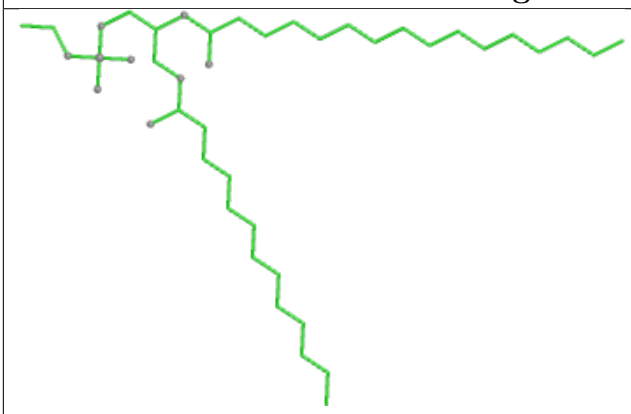


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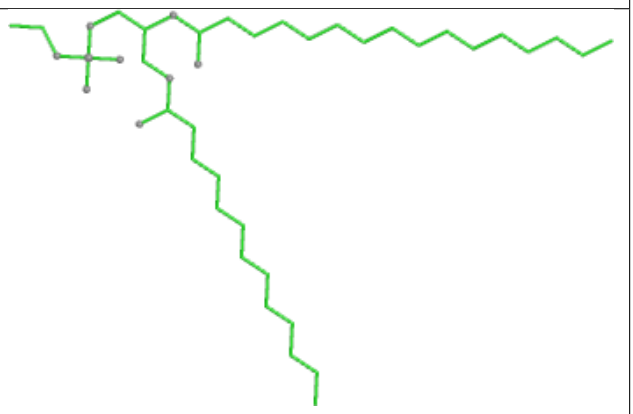


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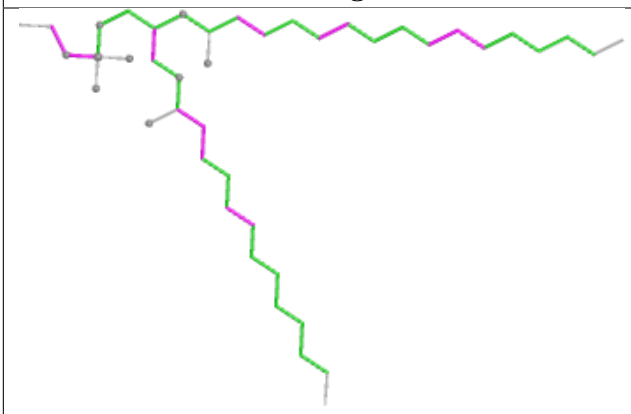
Ligand LHG 1K 101



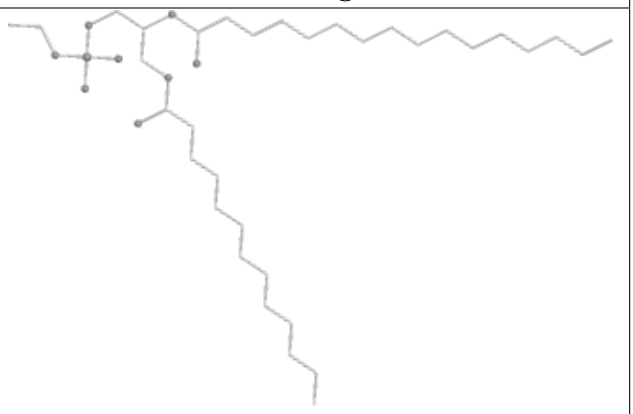
Bond lengths



Bond angles

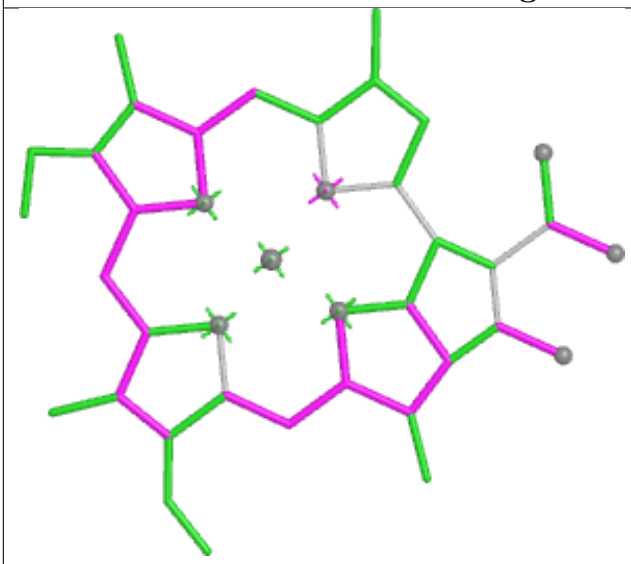


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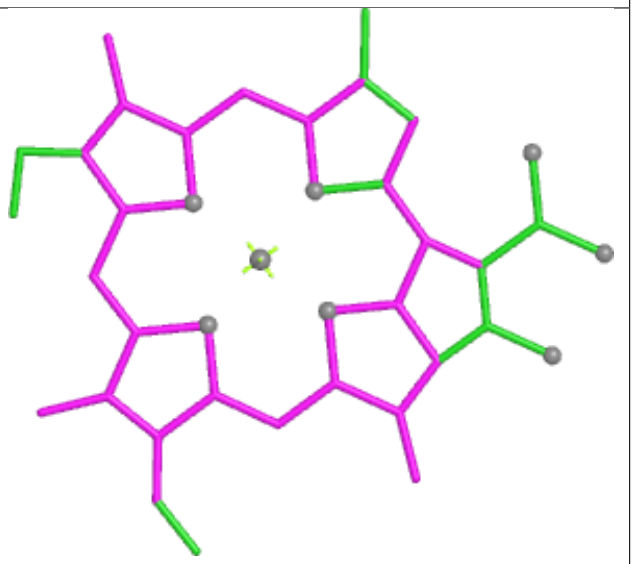


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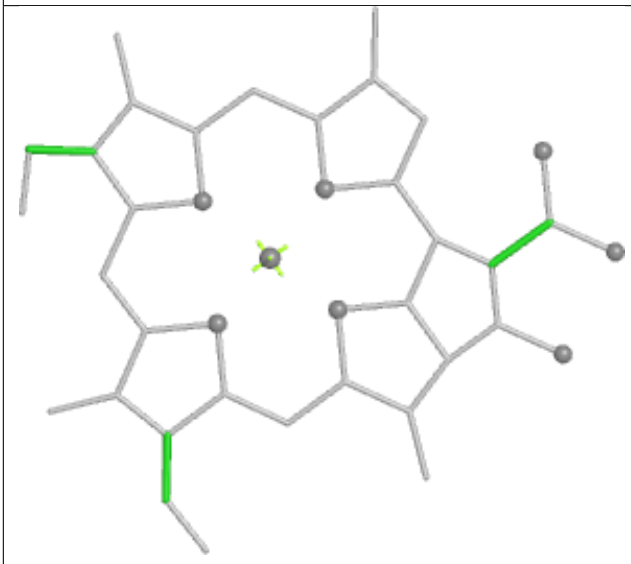
Ligand CLA 03 306



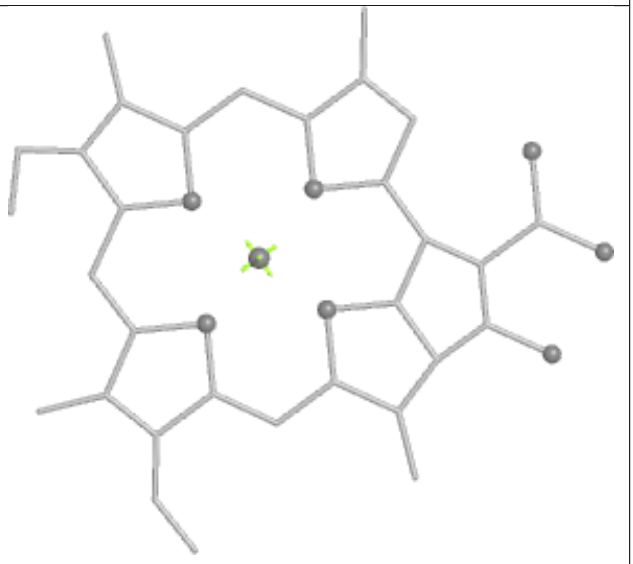
Bond lengths



Bond angles

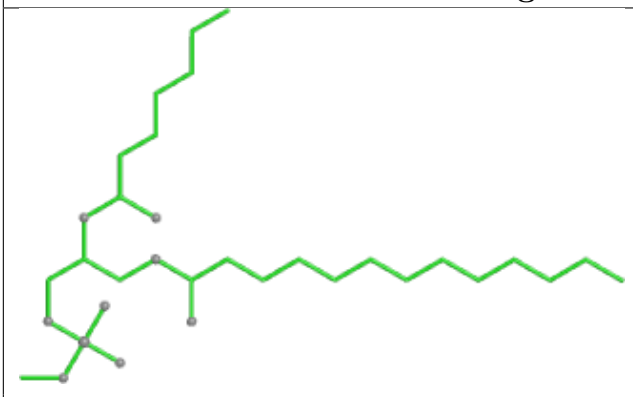


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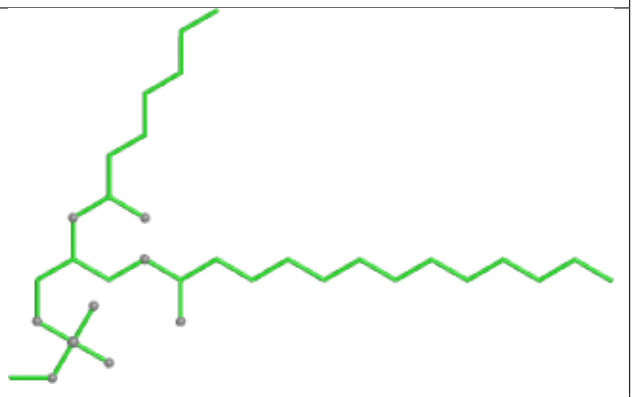


Rings

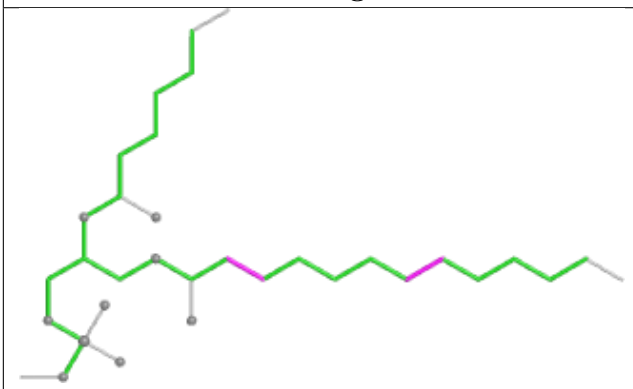
Ligand LHG 00 316



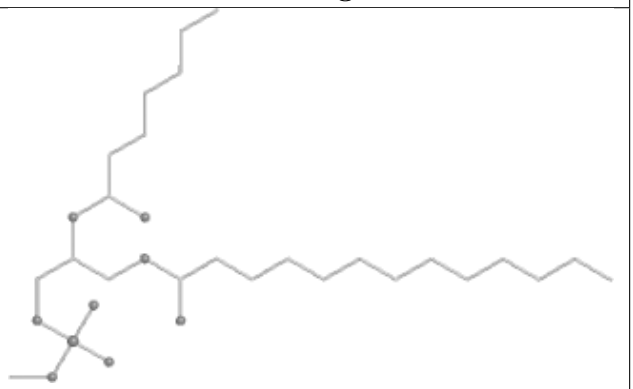
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Bond angles

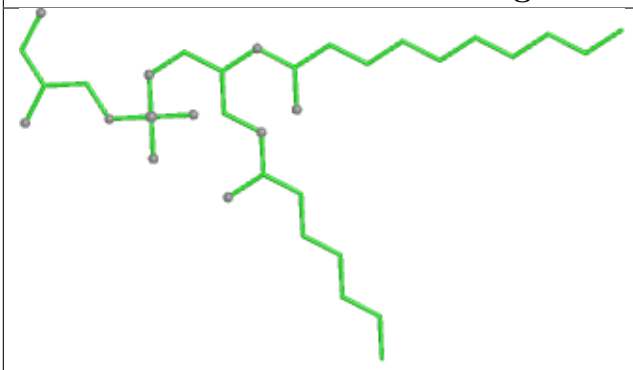


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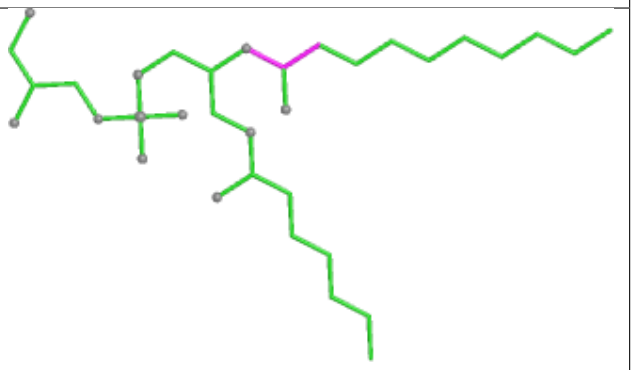


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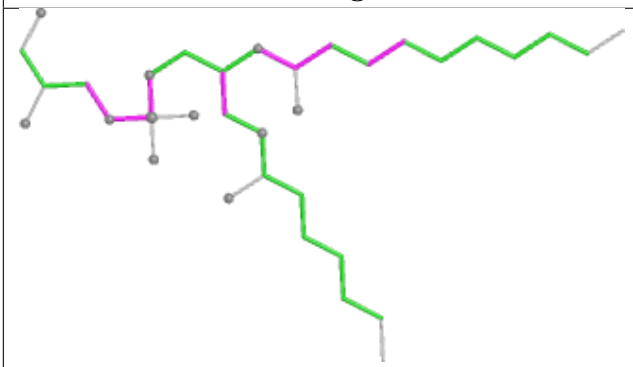
Ligand LHG 1C 522



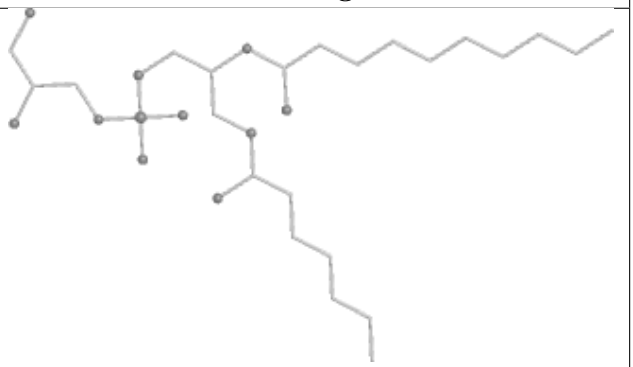
Bond lengths



Bond angles

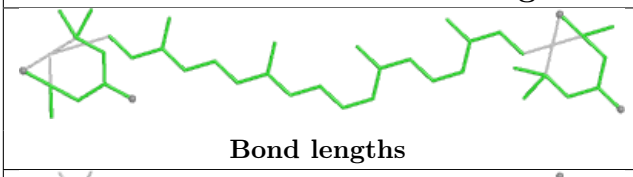


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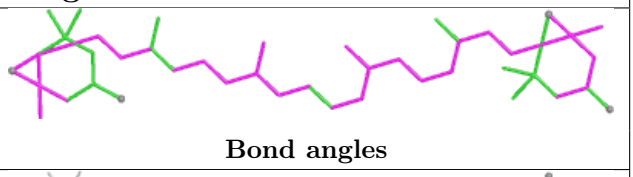


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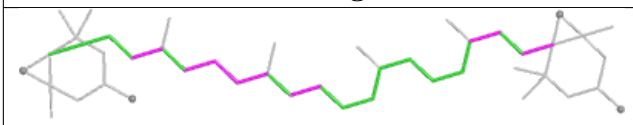
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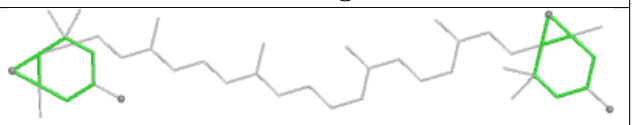
Bond lengths



Bond angles

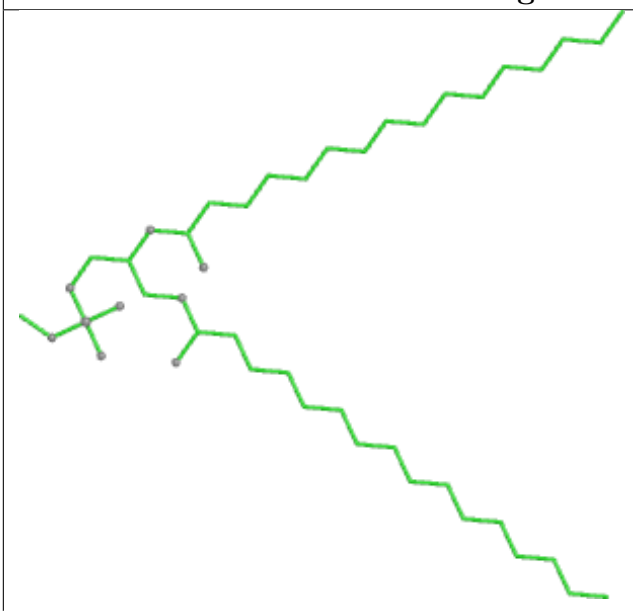


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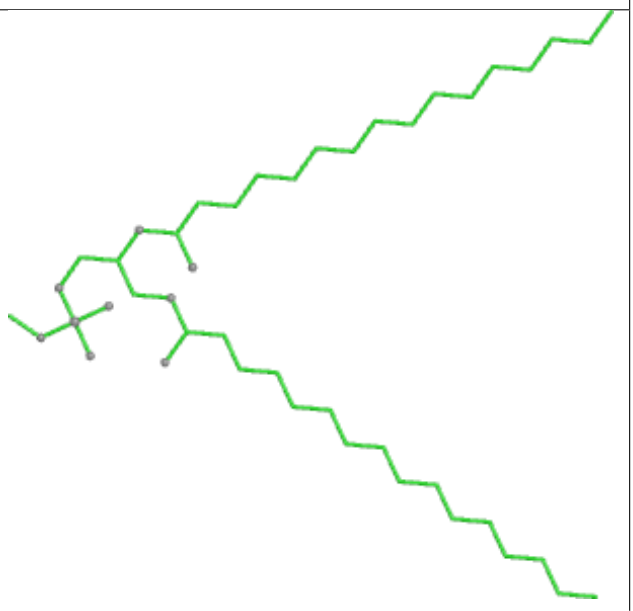


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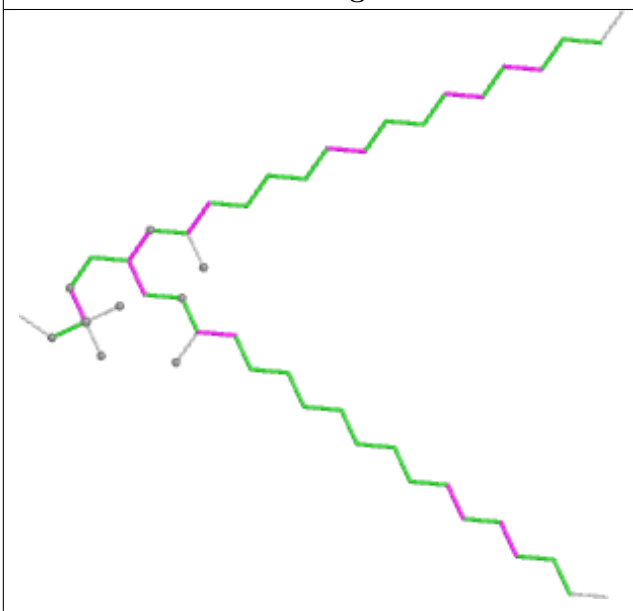
Ligand LHG 1J 102



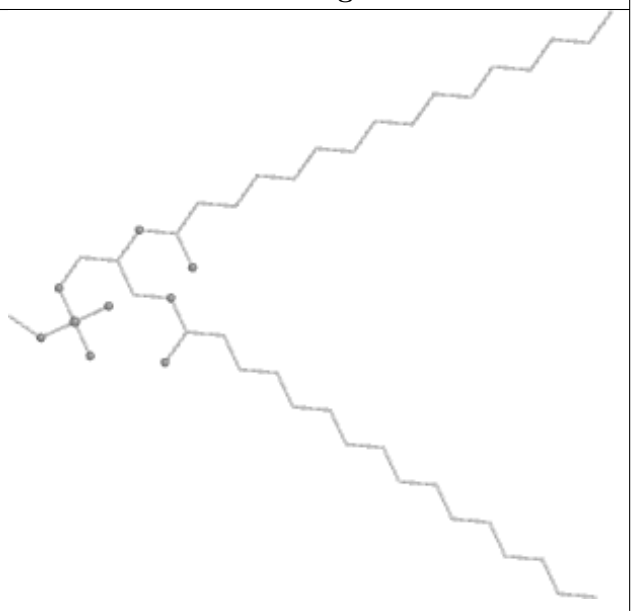
Bond lengths



Bond angles

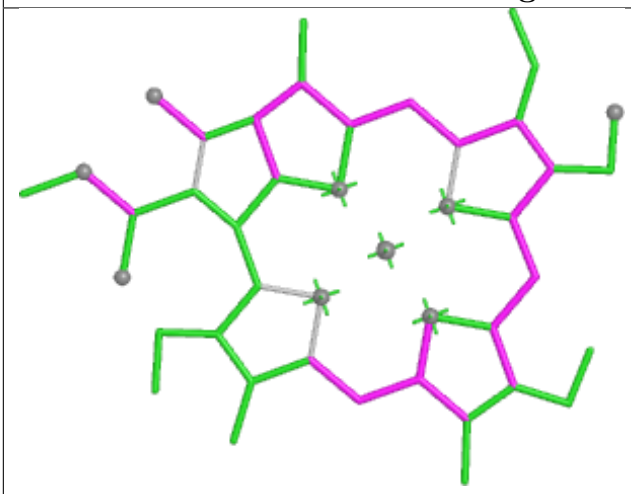


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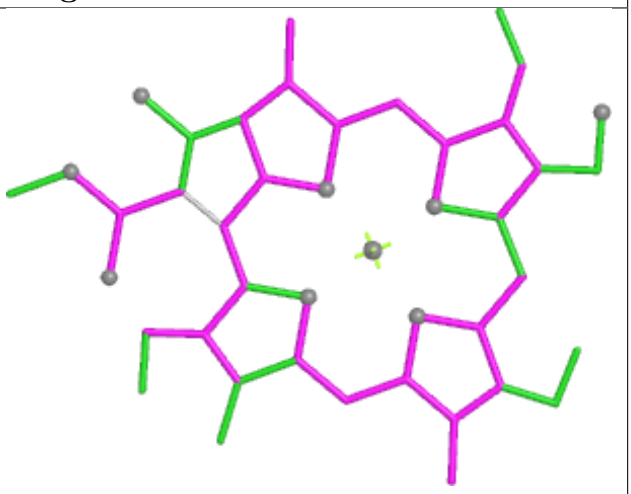


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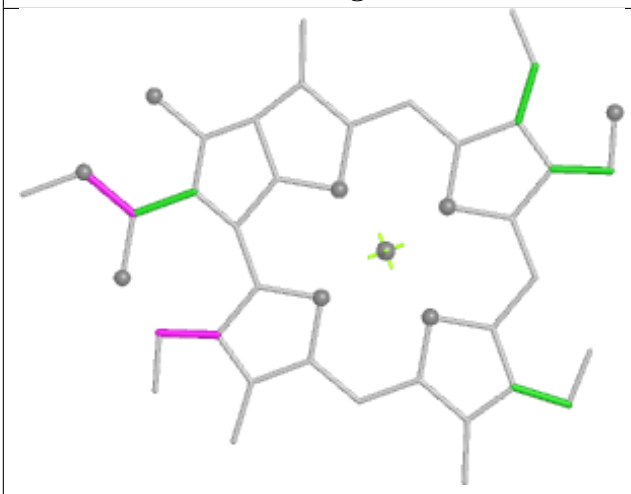
Ligand CHL 1g 608



Bond lengths



Bond angles

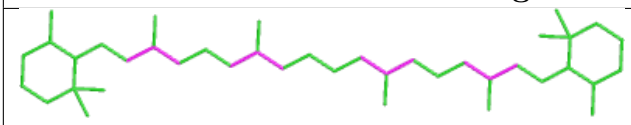


Torsions



Rings

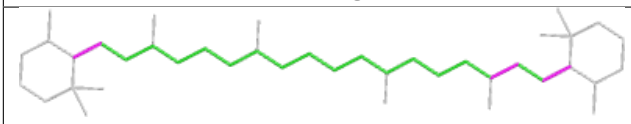
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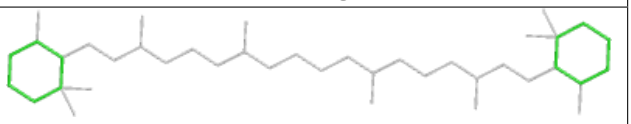
Bond lengths



Bond angles

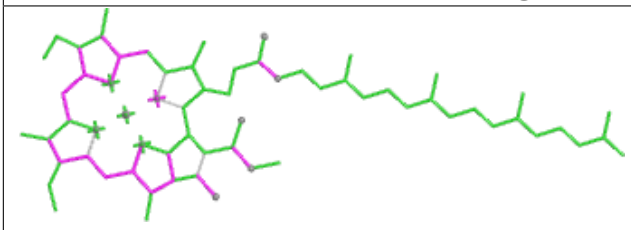


Torsions

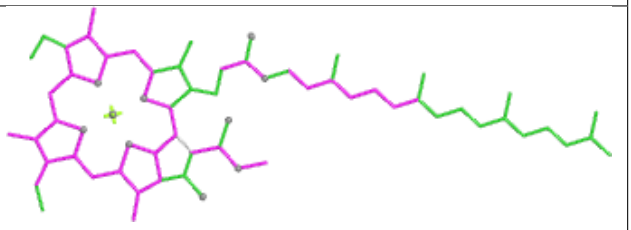


Rings

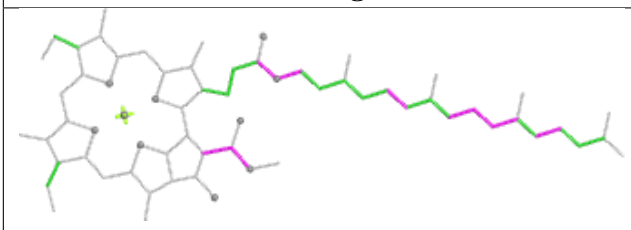
Ligand CLA 1C 508



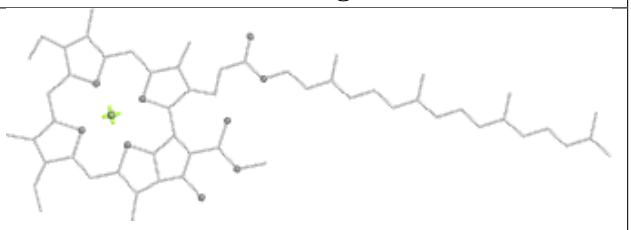
Bond lengths



Bond angles

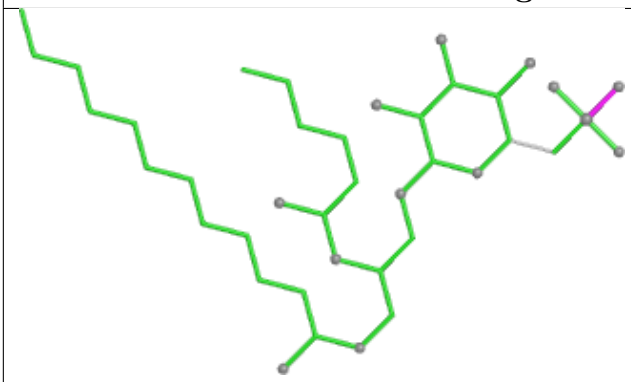


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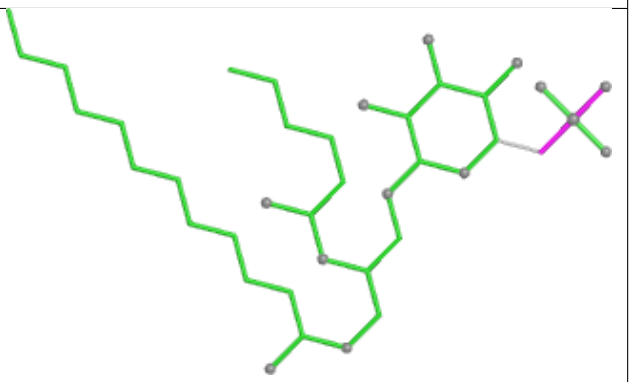


Rings

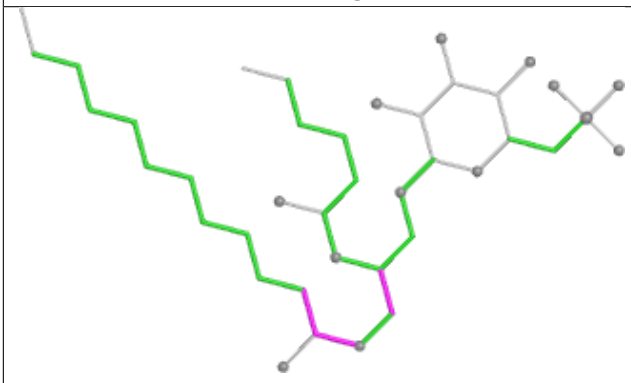
Ligand SQD 1w 101



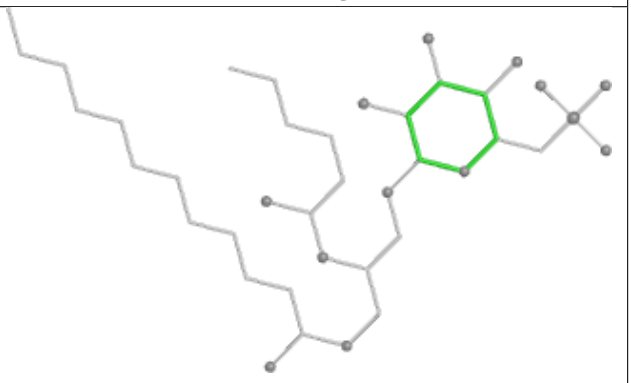
Bond lengths



Bond angles

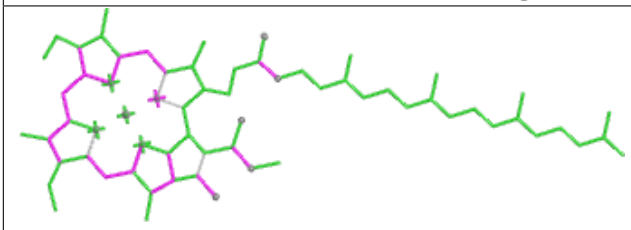


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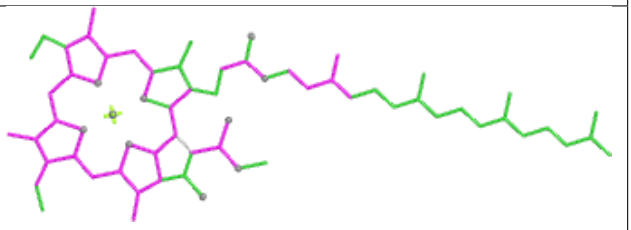


Rings

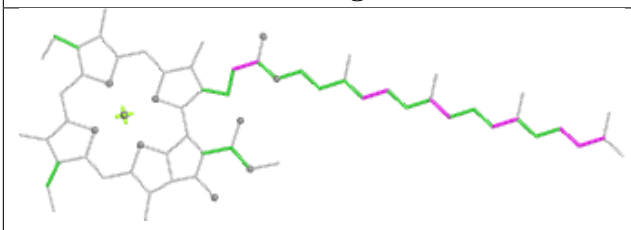
Ligand CLA 1B 606



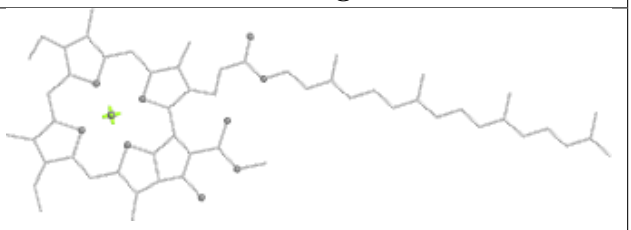
Bond lengths



Bond angles

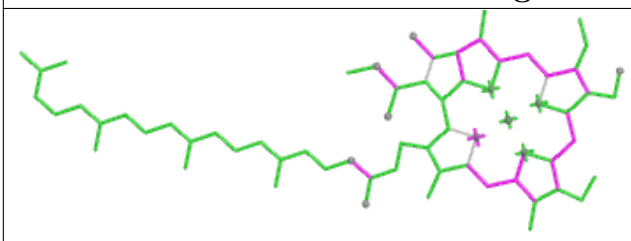


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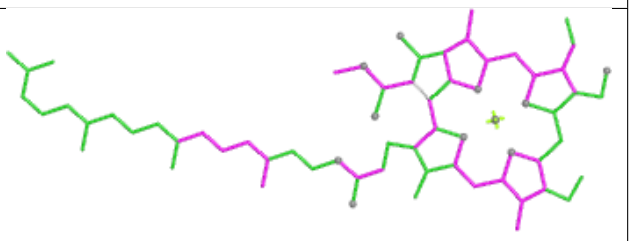


Rings

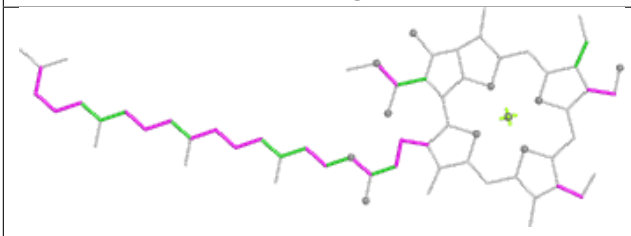
Ligand CHL 1N 308



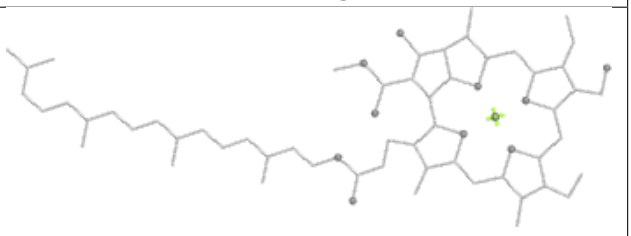
Bond lengths



Bond angles

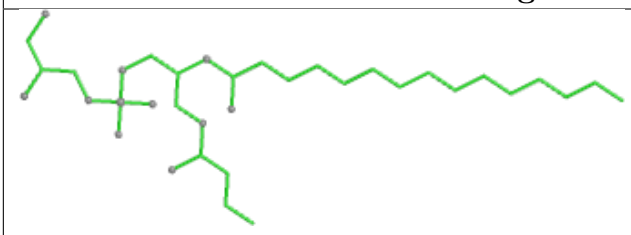


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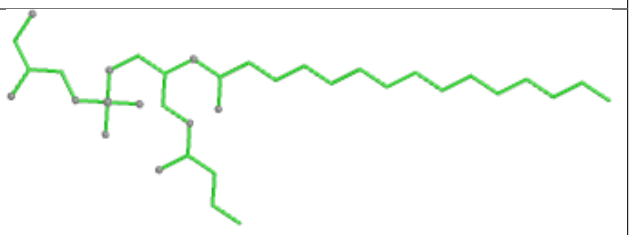


Rings

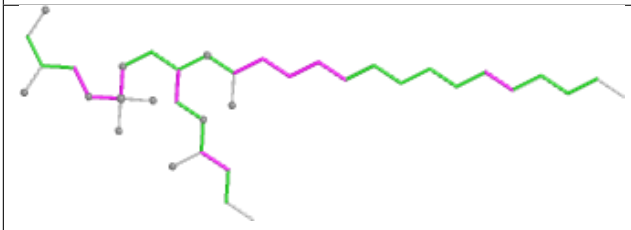
Ligand LHG 01 316



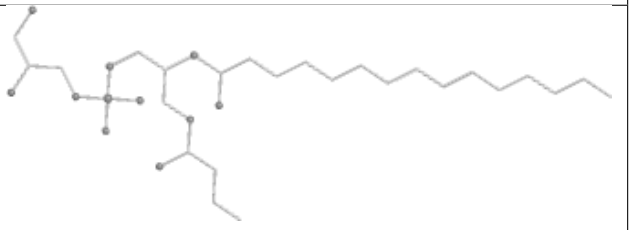
Bond lengths



Bond angles

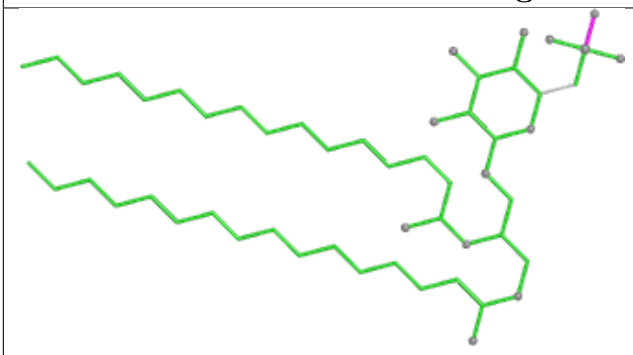


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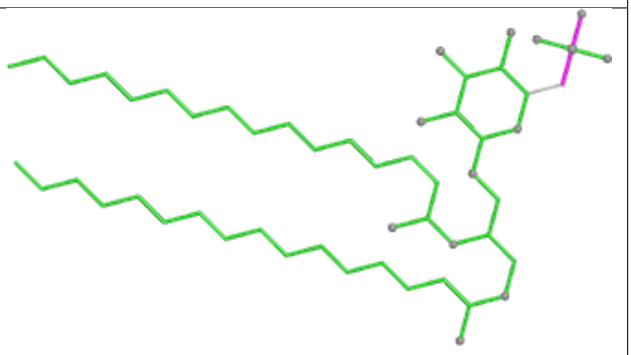


Rings

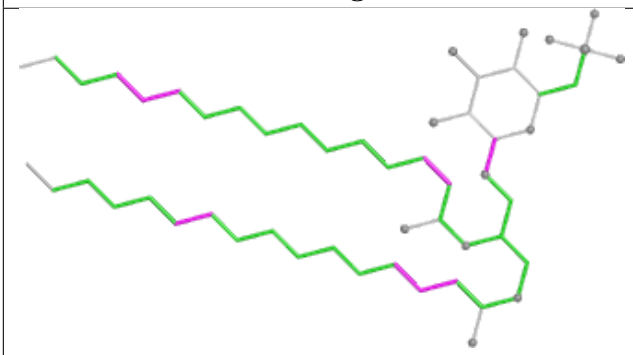
Ligand SQD 1B 628



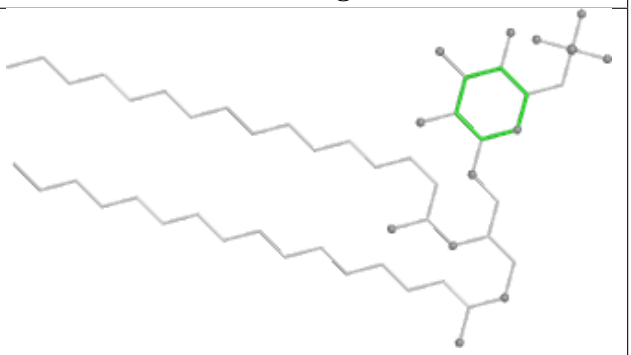
Bond lengths



Bond angles

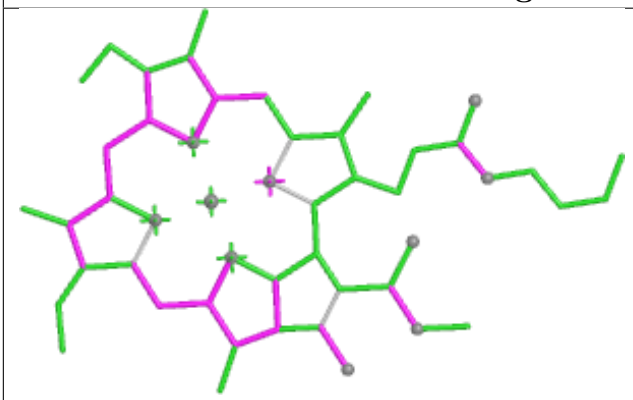


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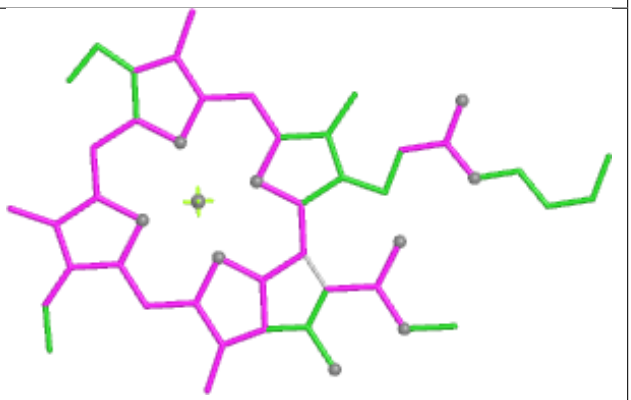


Rings

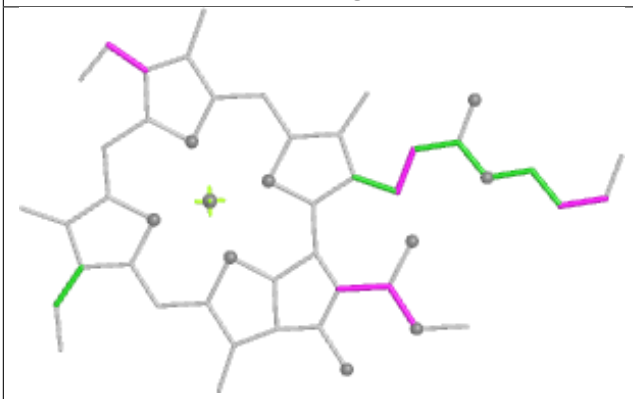
Ligand CLA 1C 506



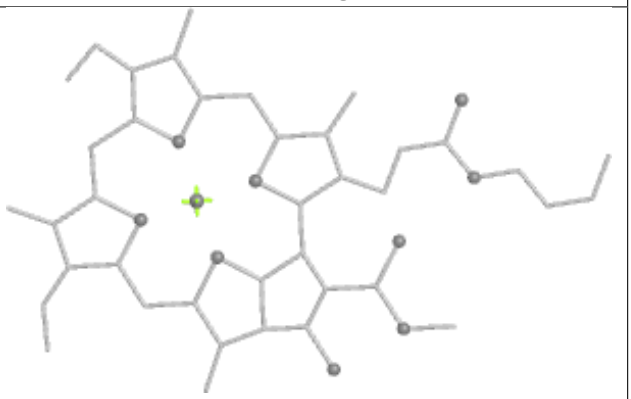
Bond lengths



Bond angles

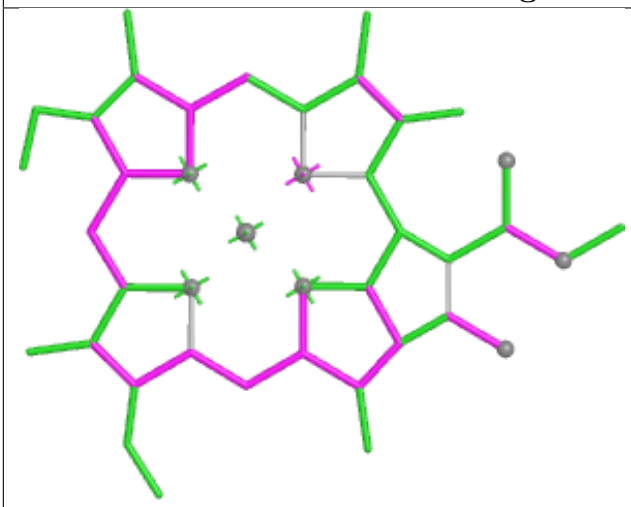


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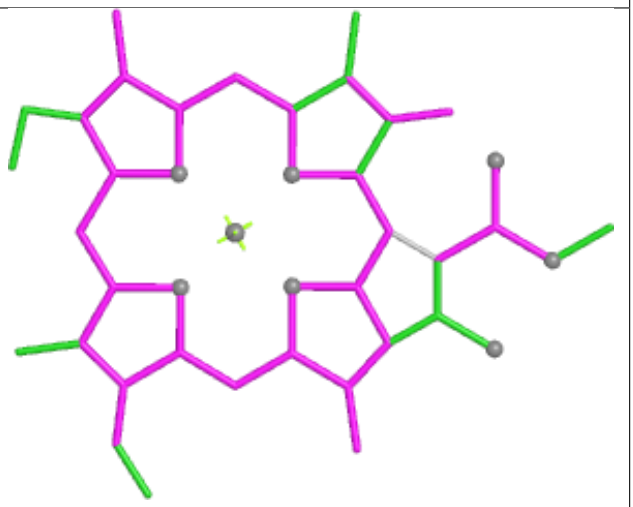


Rings

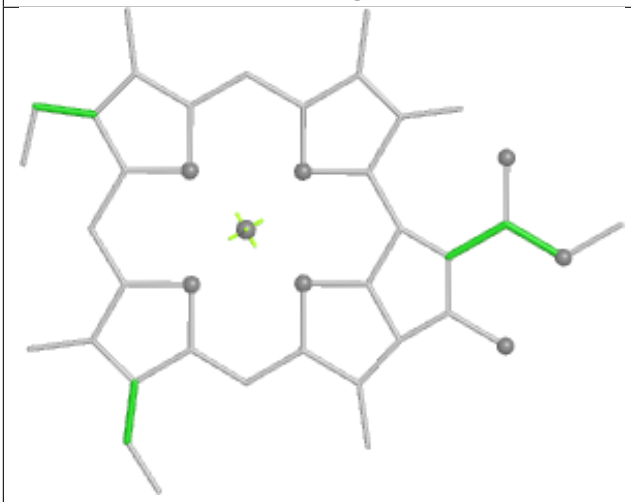
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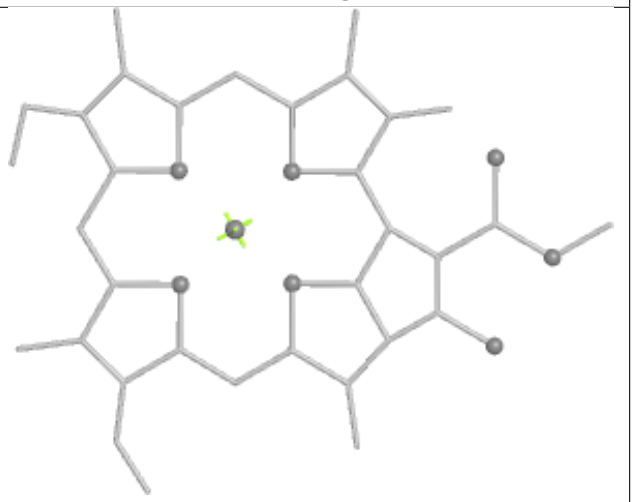
Bond lengths



Bond angles

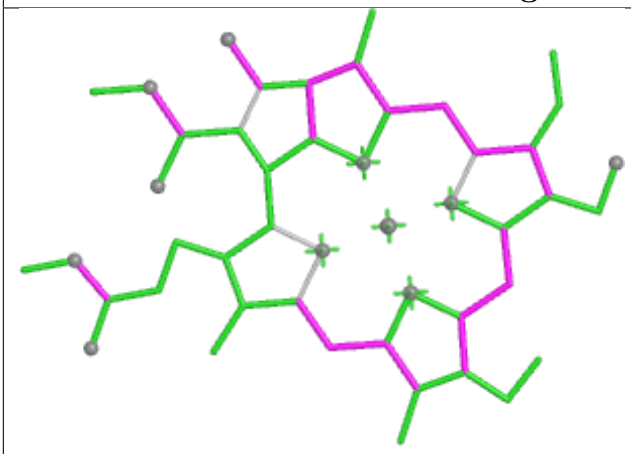


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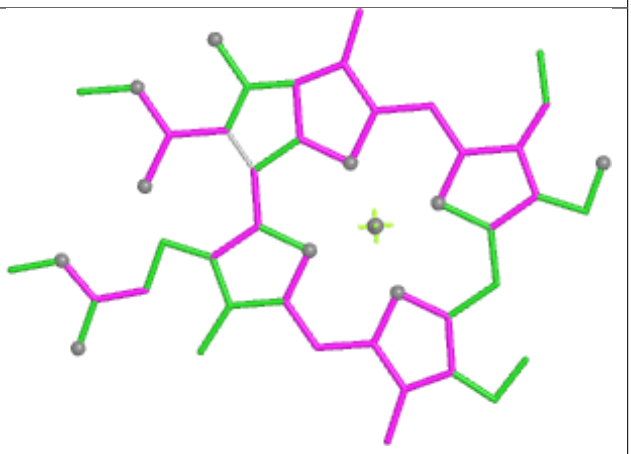


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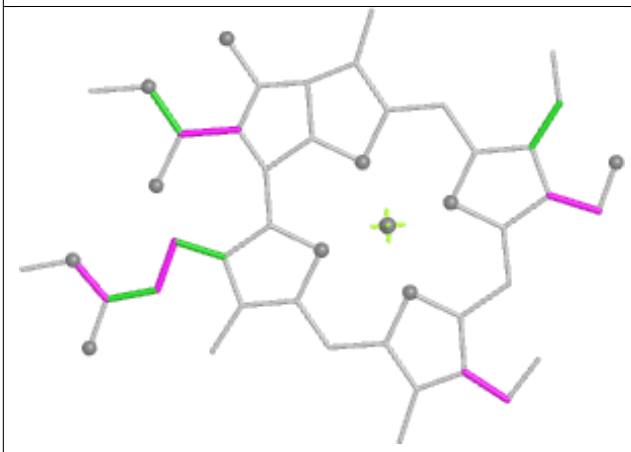
Ligand CHL 1r 313



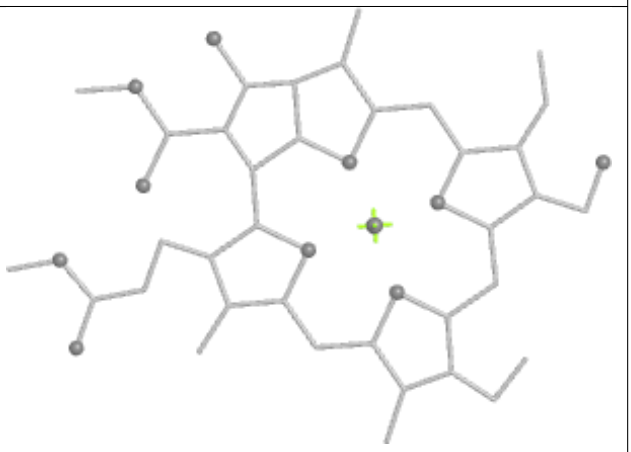
Bond lengths



Bond angles

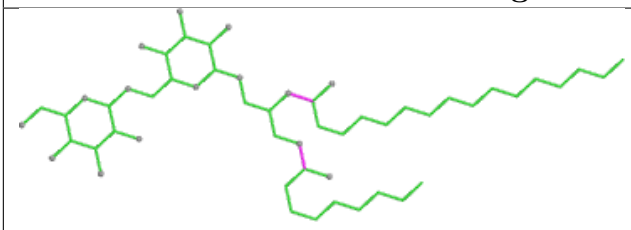


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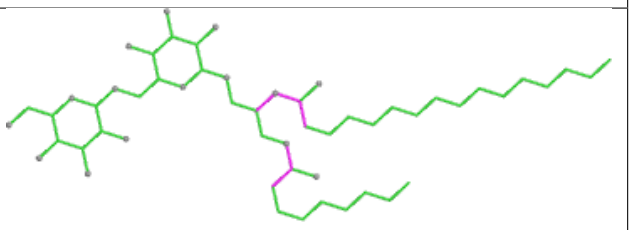


Rings

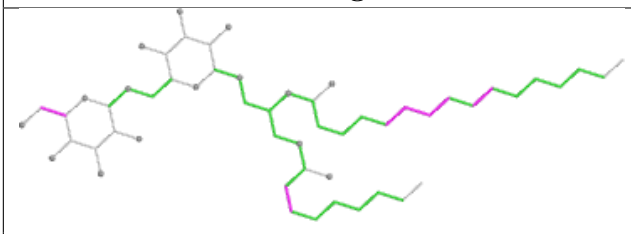
Ligand DGD 1C 516



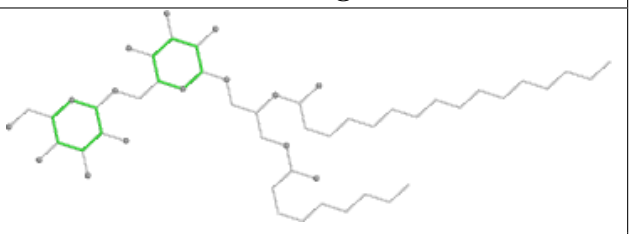
Bond lengths



Bond angles

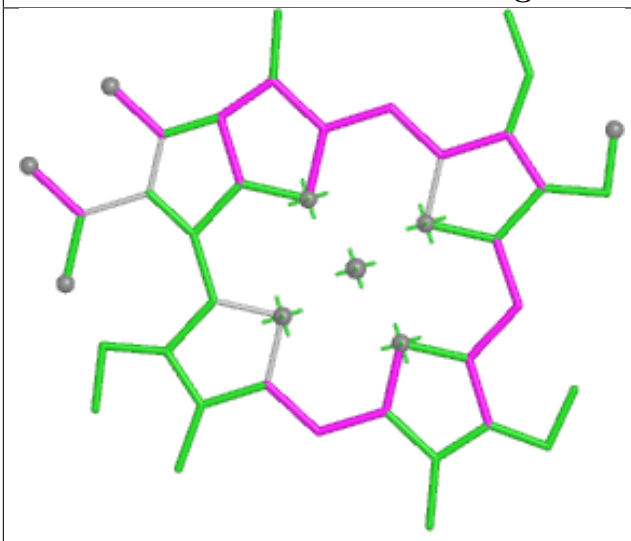


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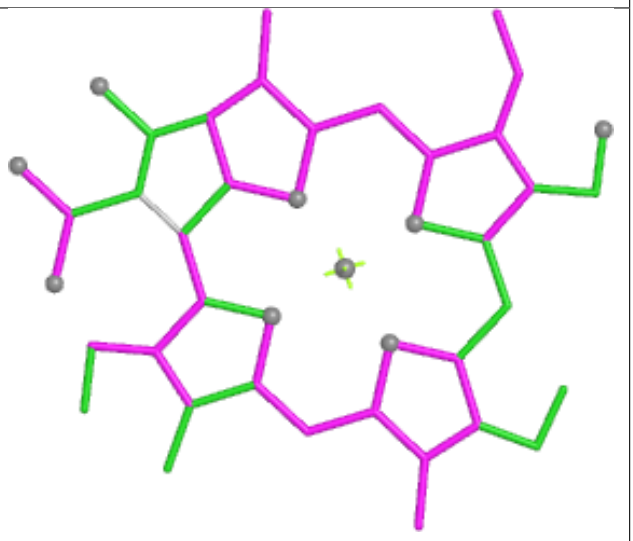


Rings

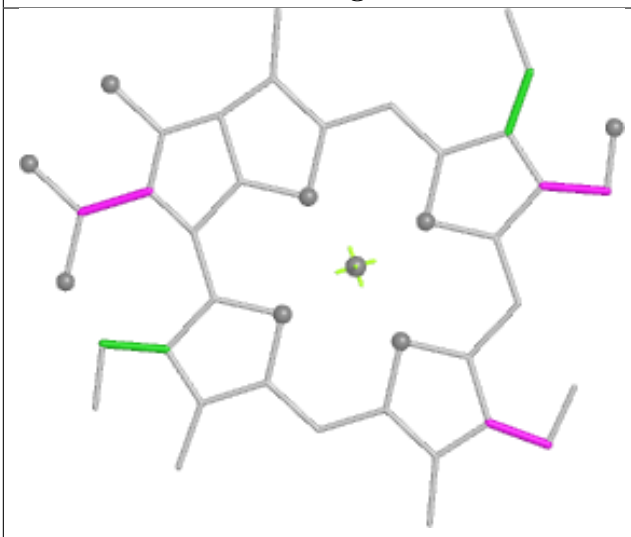
Ligand CHL 1R 303



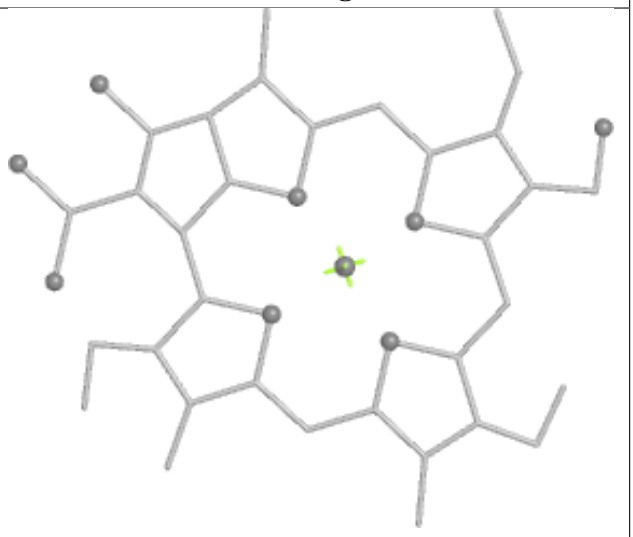
Bond lengths



Bond angles

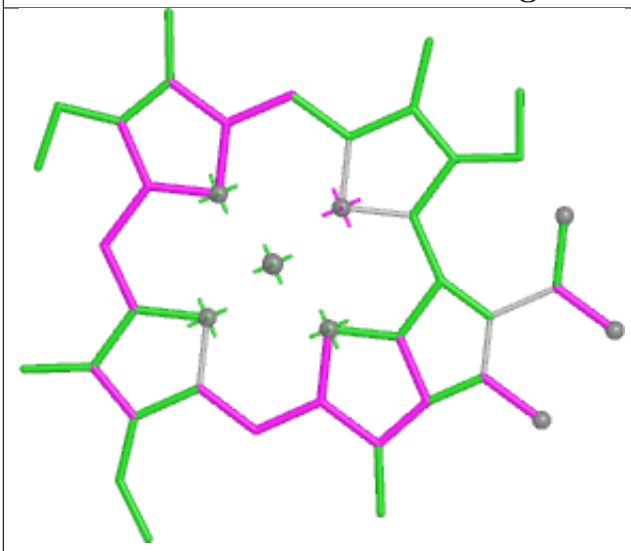


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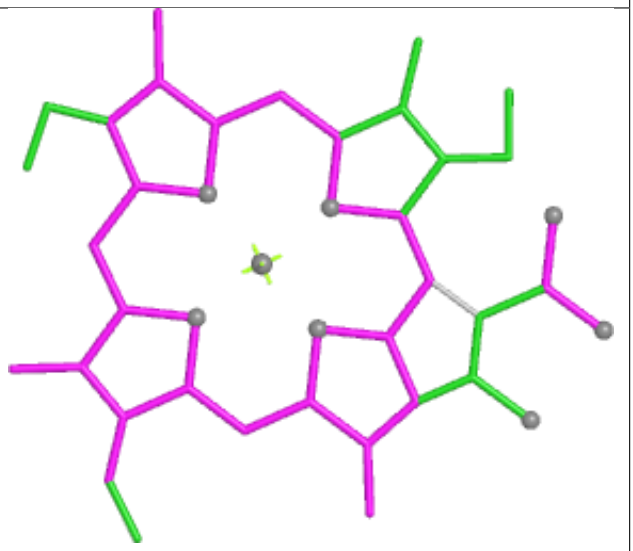


Rings

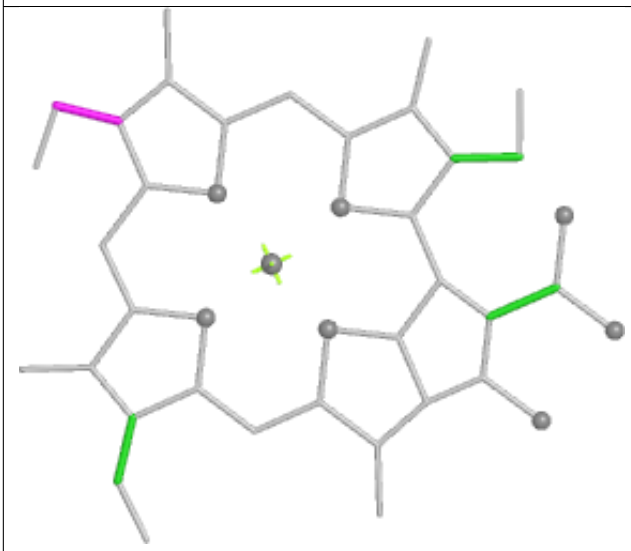
Ligand CLA 08 306



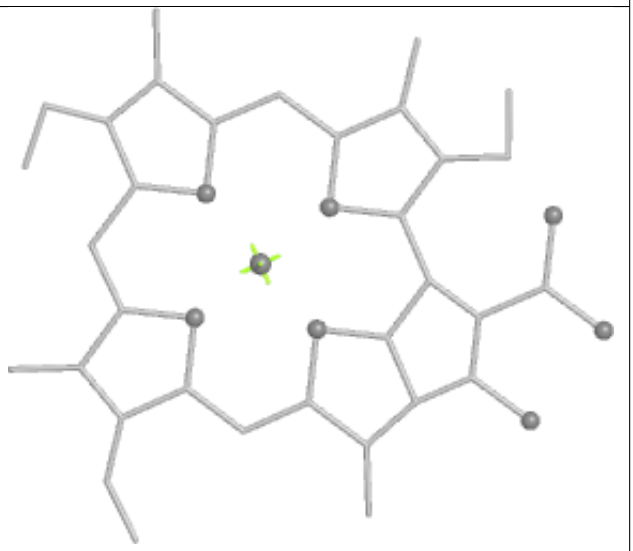
Bond lengths



Bond angles

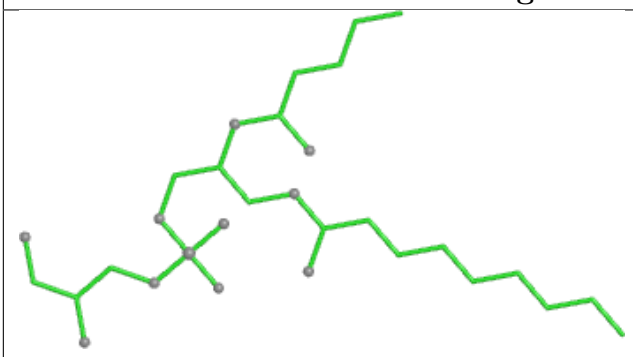


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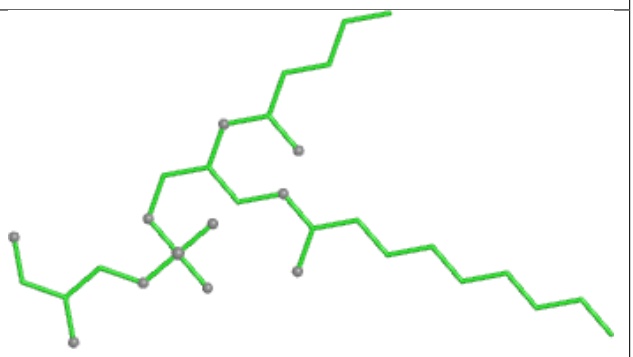


Rings

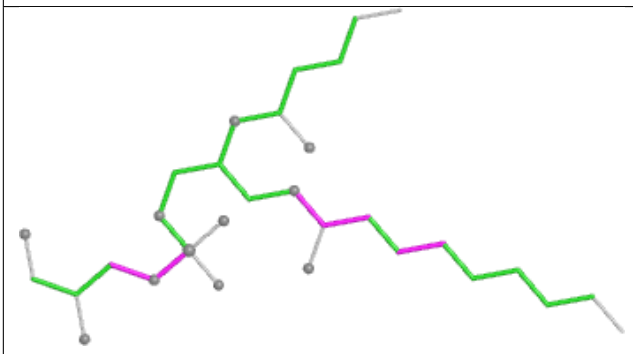
Ligand LHG 1S 319



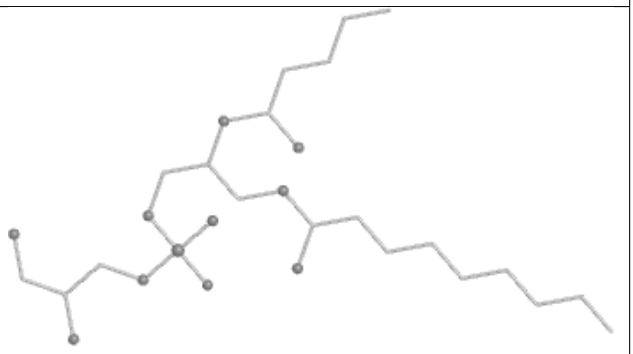
Bond lengths



Bond angles

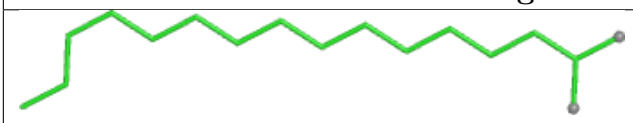


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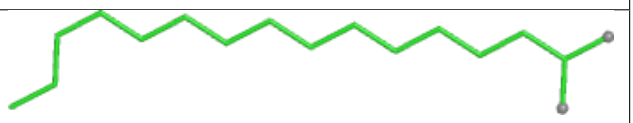


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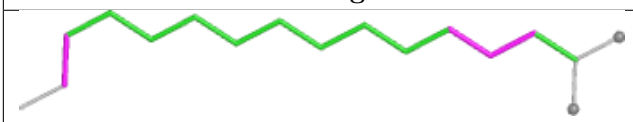
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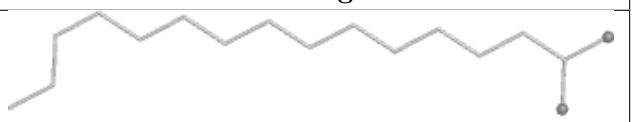
Bond lengths



Bond angles

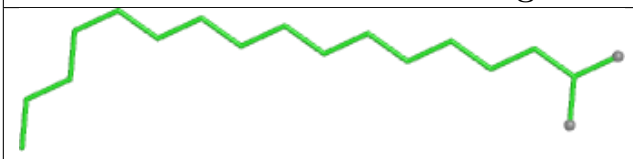


Torsions

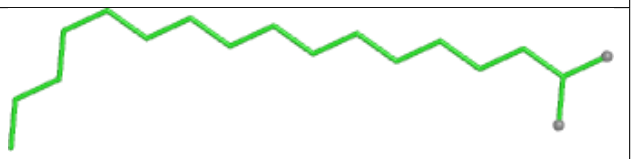


Rings

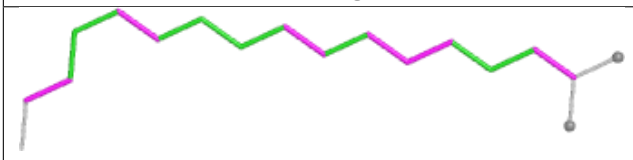
Ligand LNL 1C 514



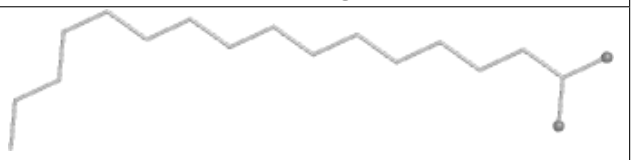
Bond lengths



Bond angles

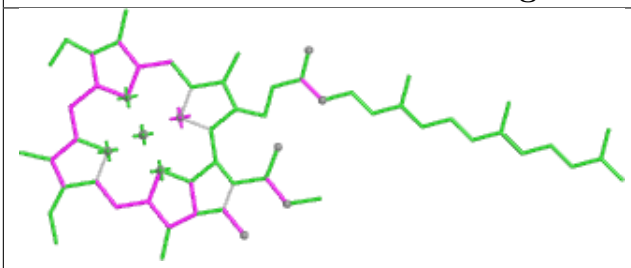


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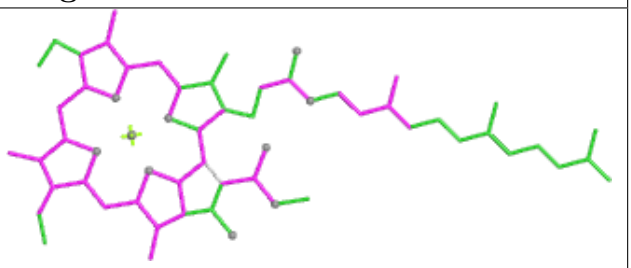


Rings

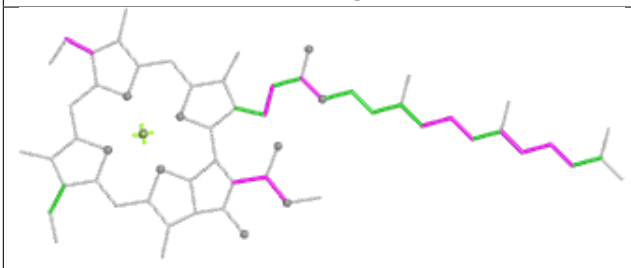
Ligand CLA 1g 602



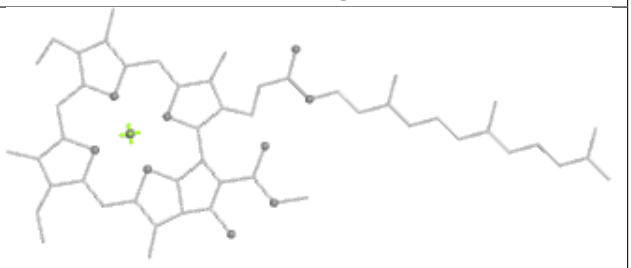
Bond lengths



Bond angles

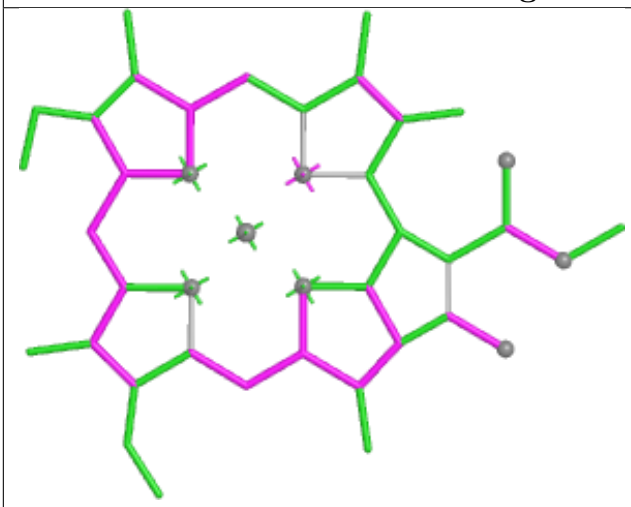


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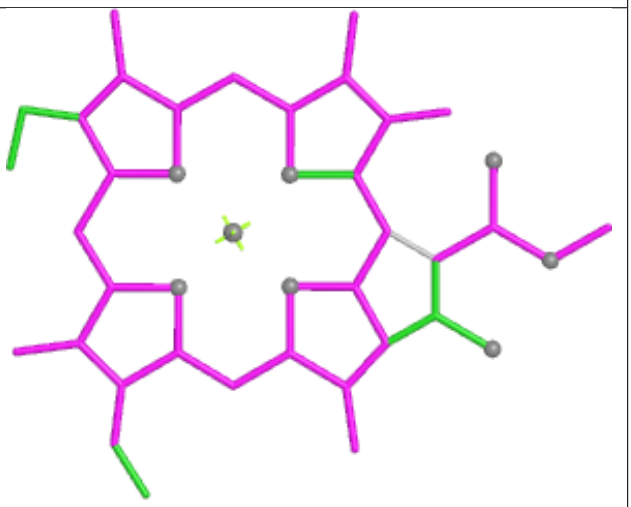


Rings

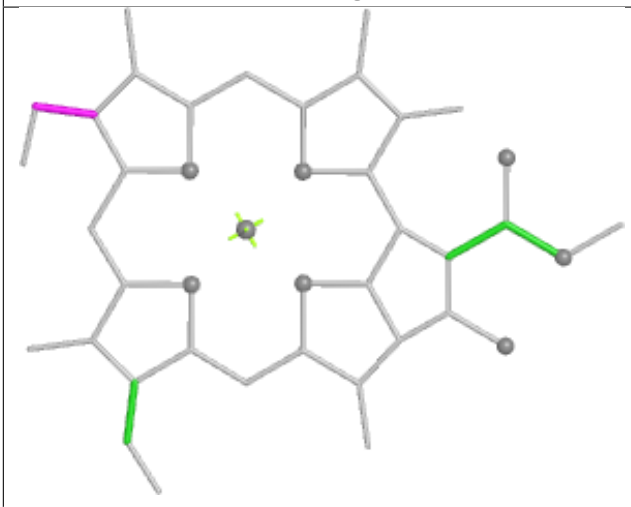
Ligand CLA 05 308



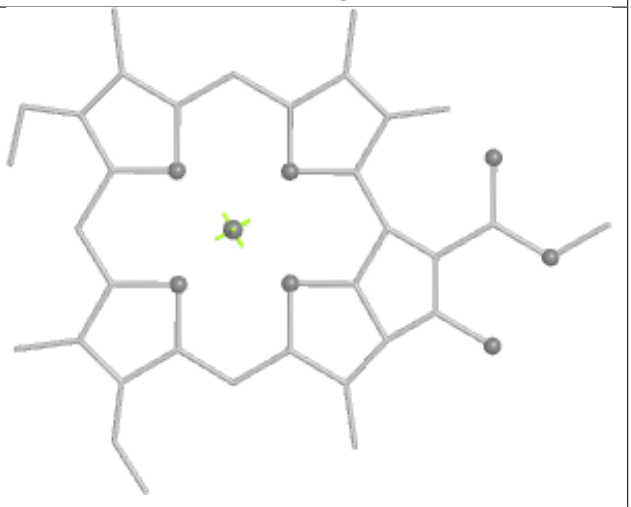
Bond lengths



Bond angles

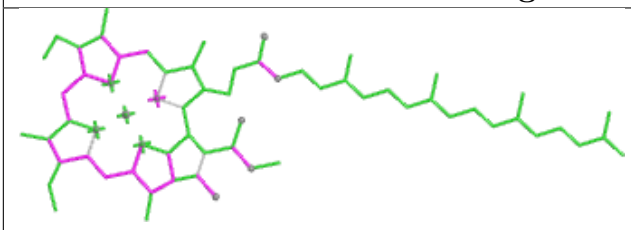


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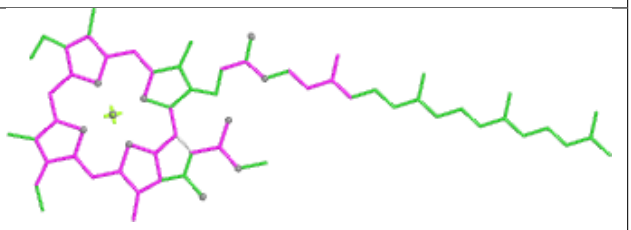


Rings

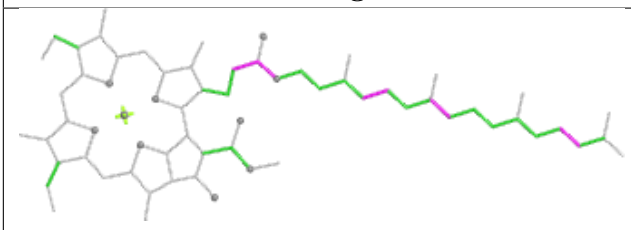
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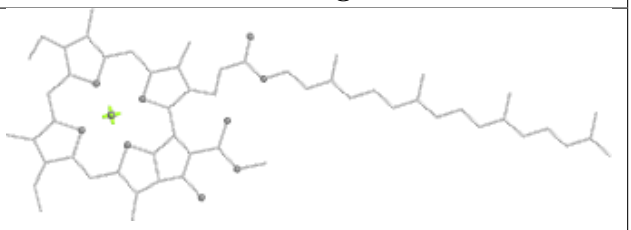
Bond lengths



Bond angles

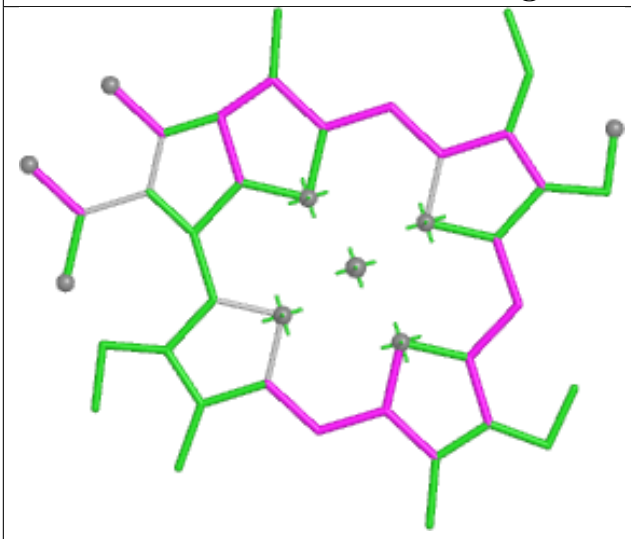


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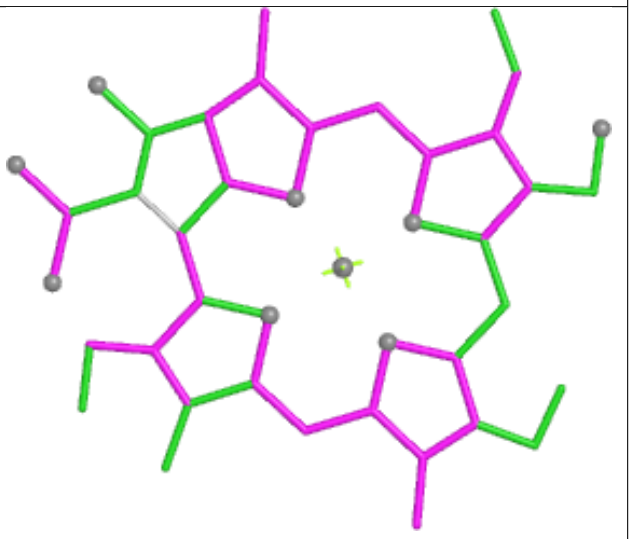


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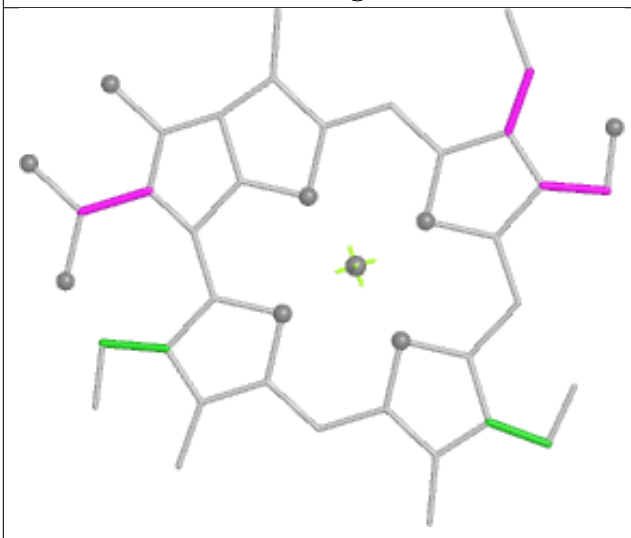
Ligand CHL 1s 310



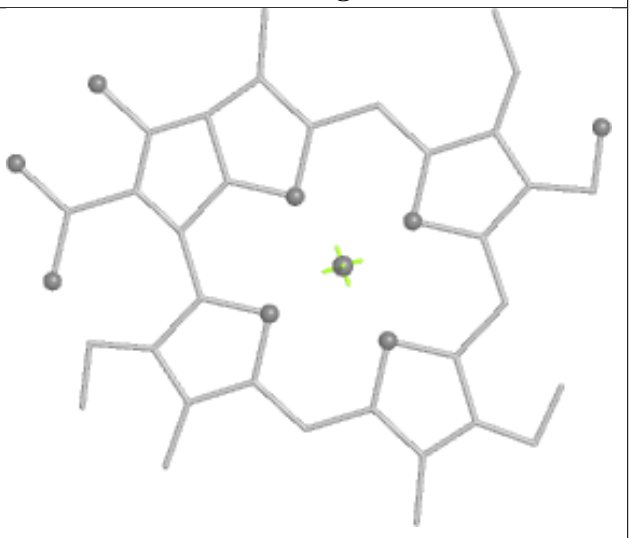
Bond lengths



Bond angles

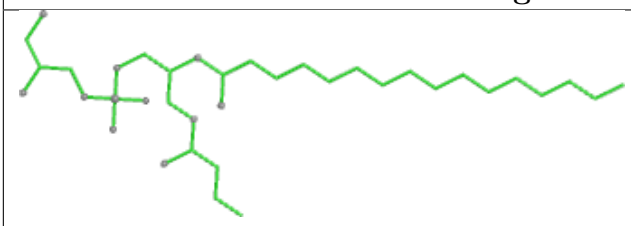


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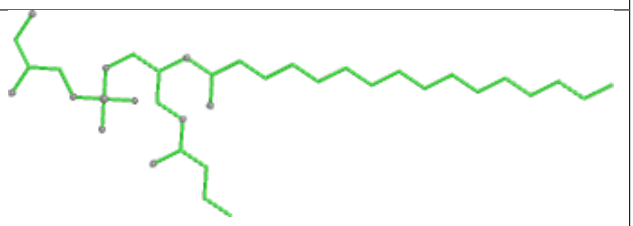


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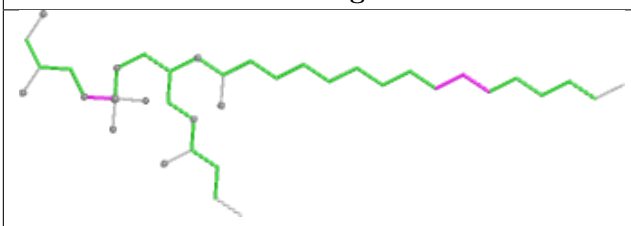
Ligand LHG 1R 318



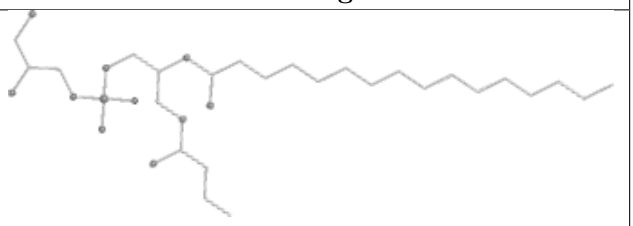
Bond lengths



Bond angles

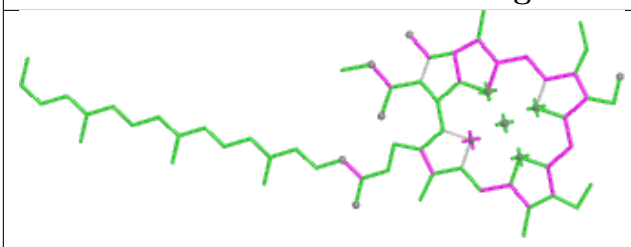


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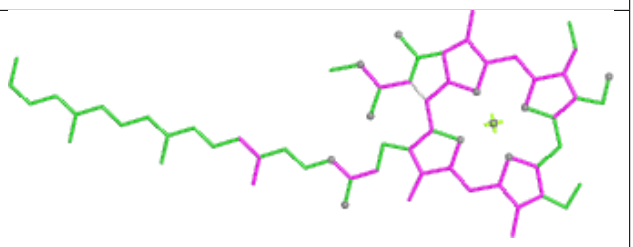


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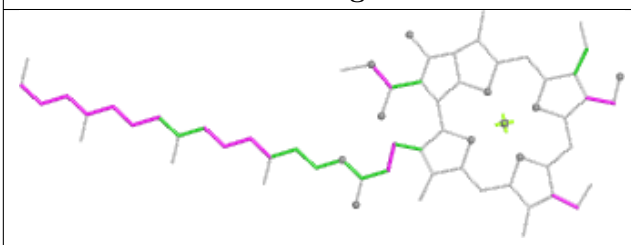
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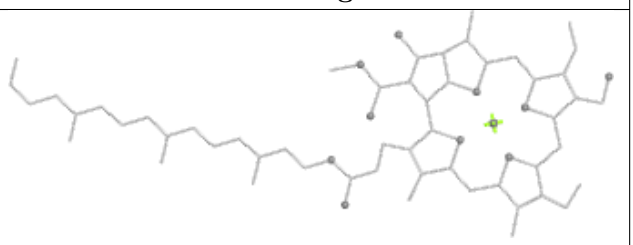
Bond lengths



Bond angles

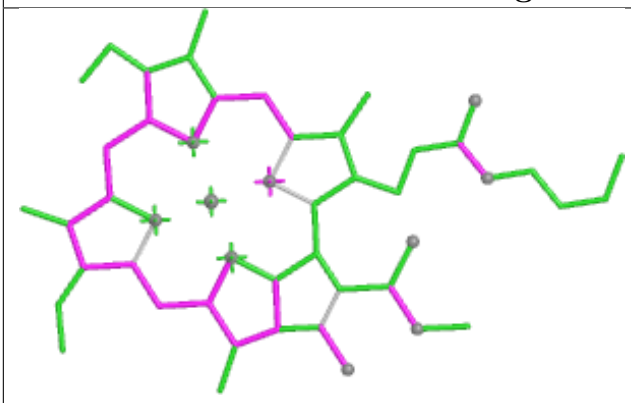


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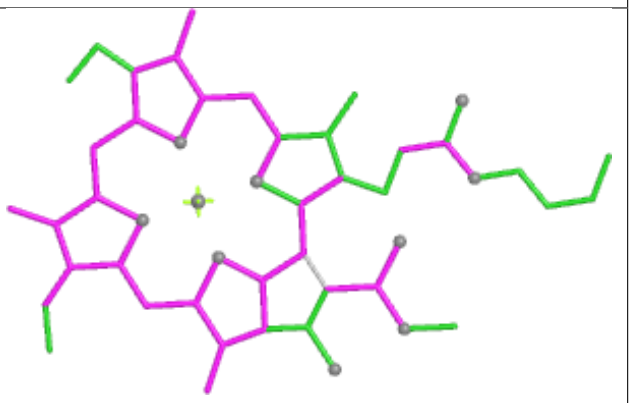


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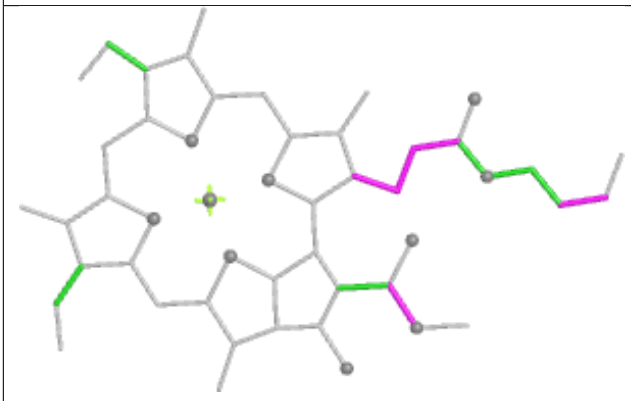
Ligand CLA 1R 308



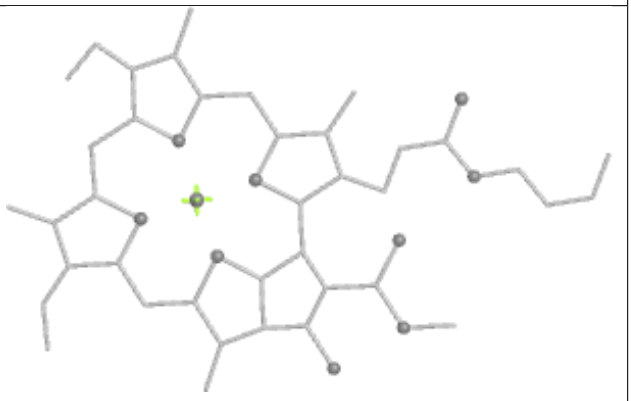
Bond lengths



Bond angles

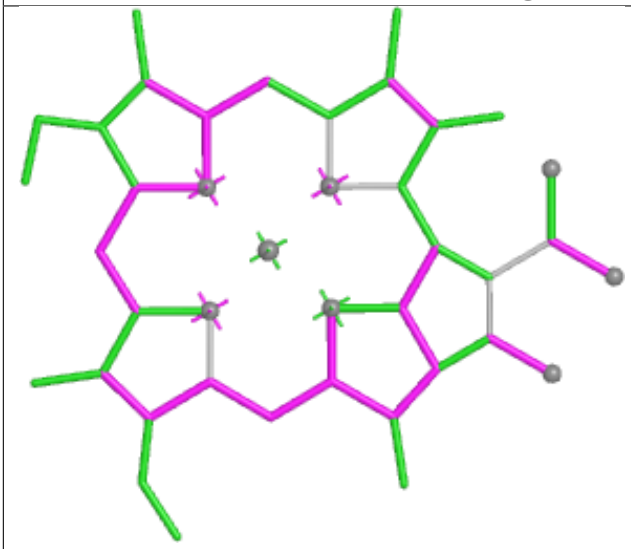


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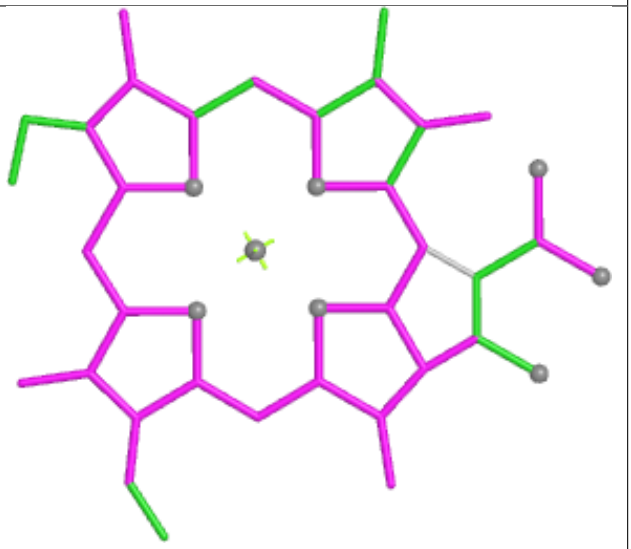


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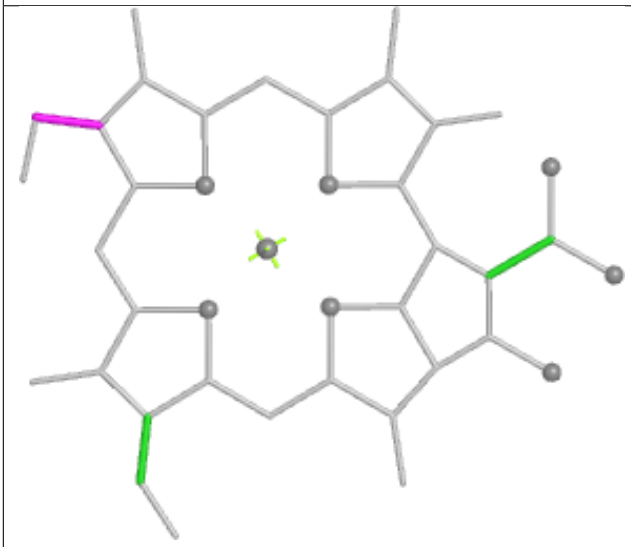
Ligand CLA 07 302



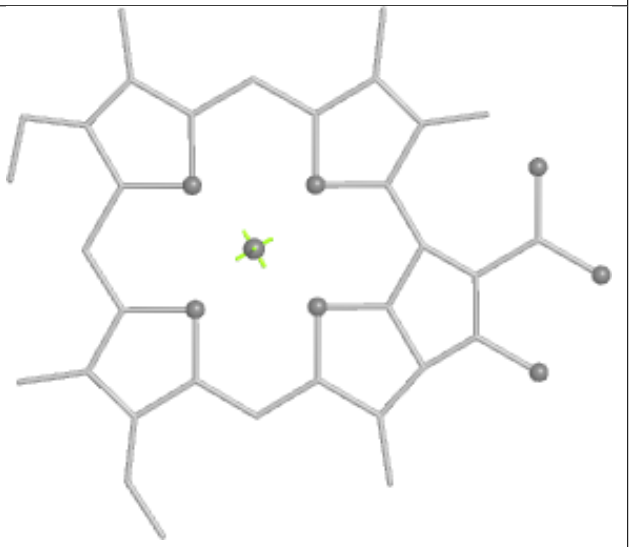
Bond lengths



Bond angles

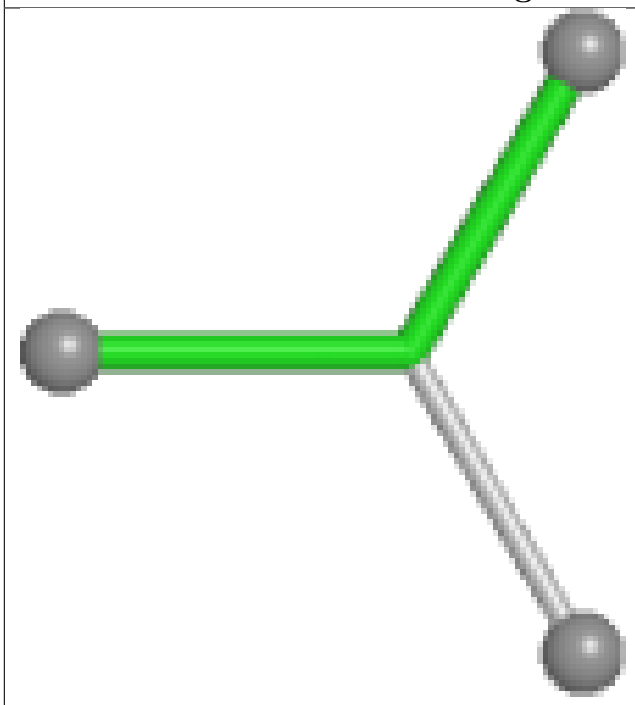


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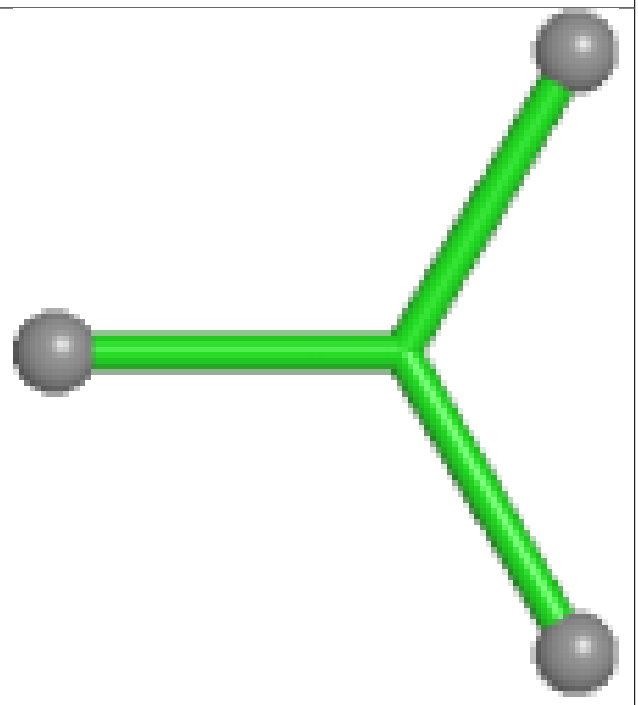


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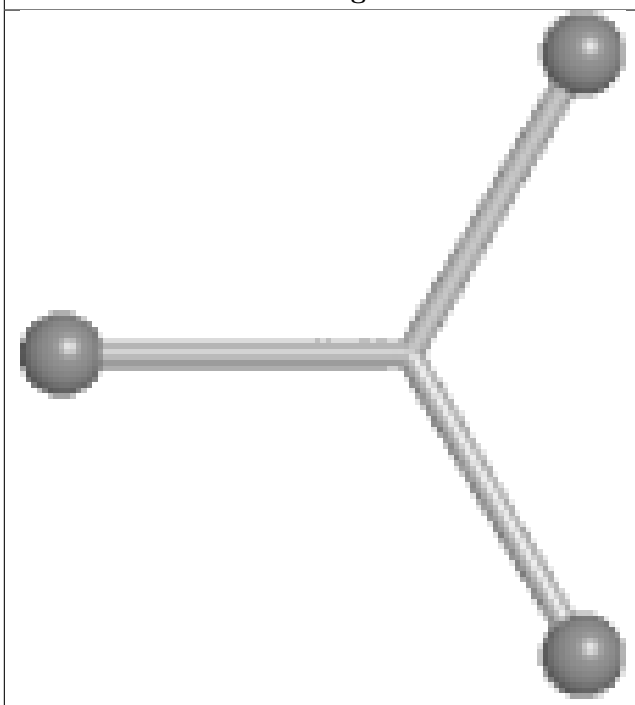
Ligand BCT 1D 403



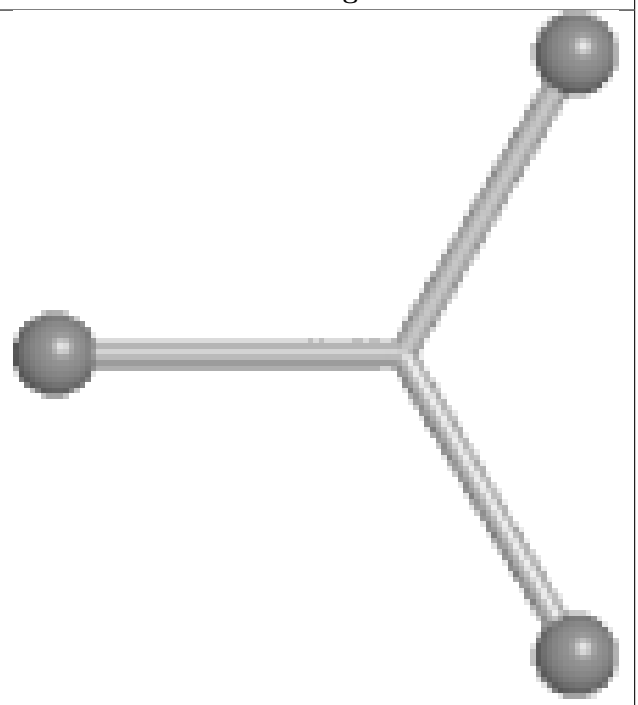
Bond lengths



Bond angles

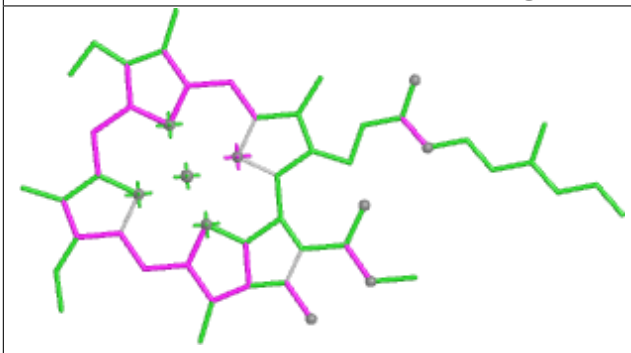


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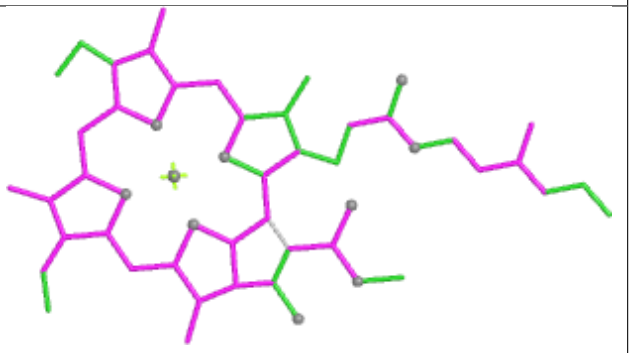


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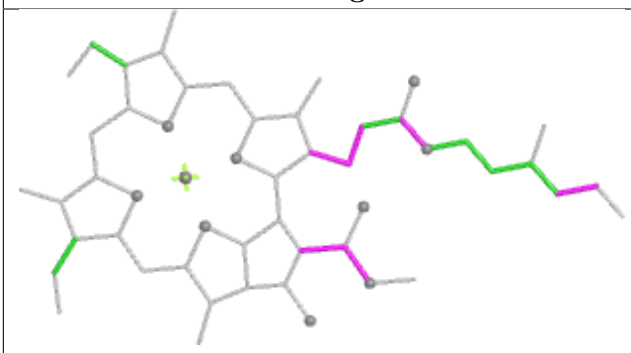
Ligand CLA 1c 507



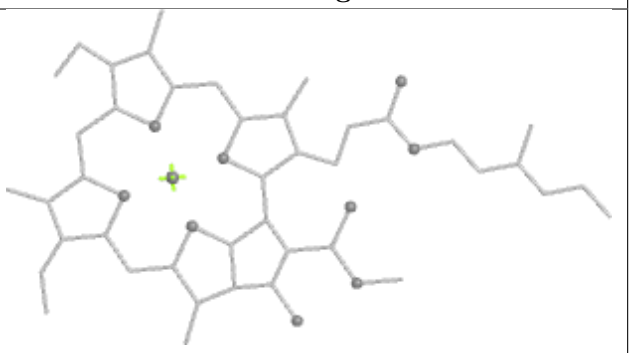
Bond lengths



Bond angles

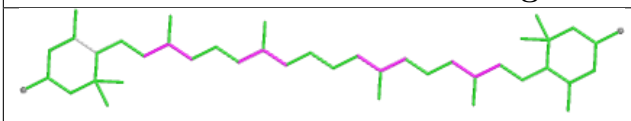


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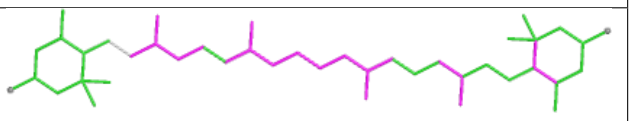


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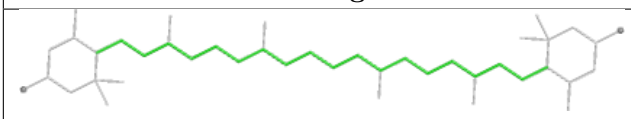
Ligand LUT 1r 315



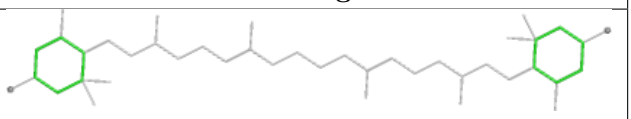
Bond lengths



Bond angles

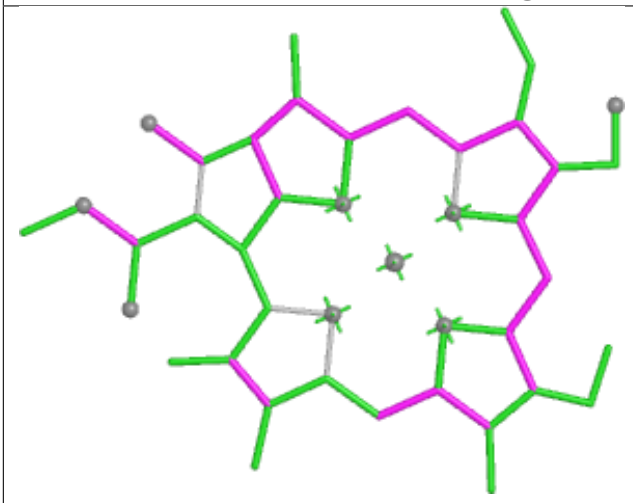


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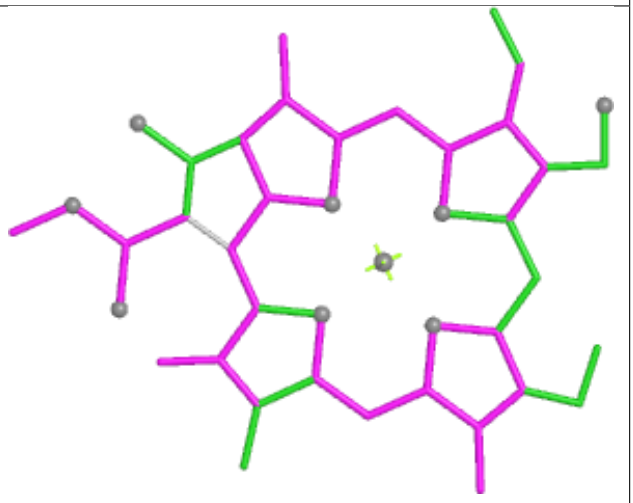


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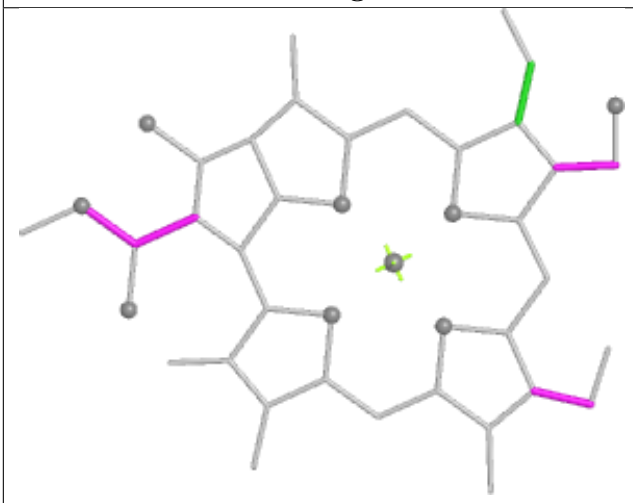
Ligand CHL 05 315



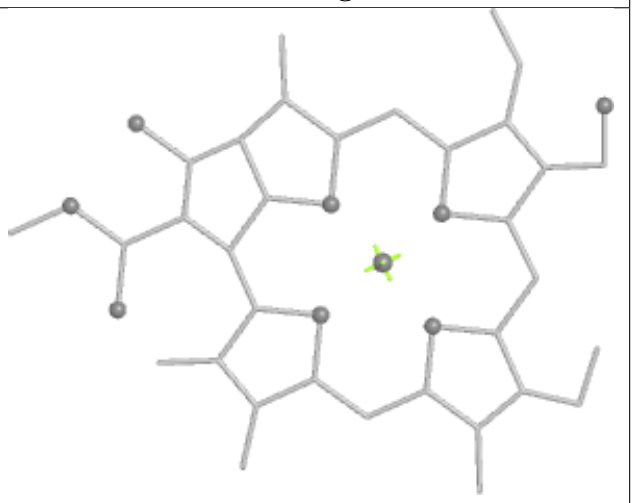
Bond lengths



Bond angles

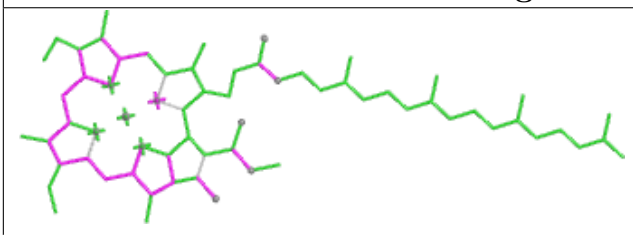


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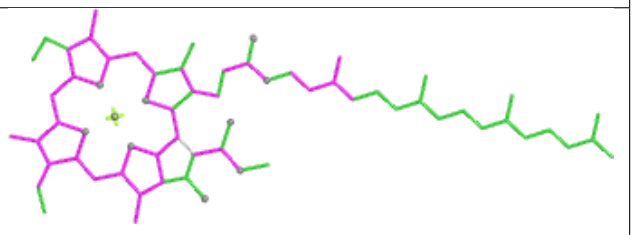


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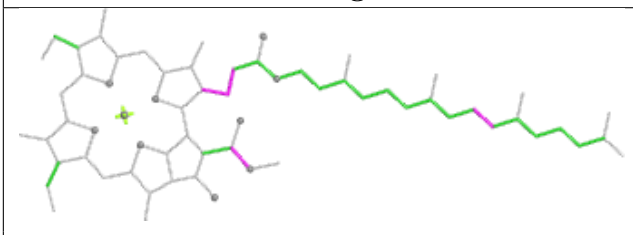
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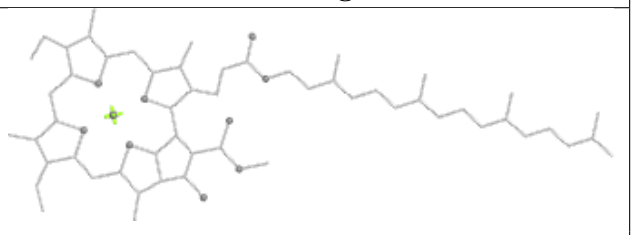
Bond lengths



Bond angles

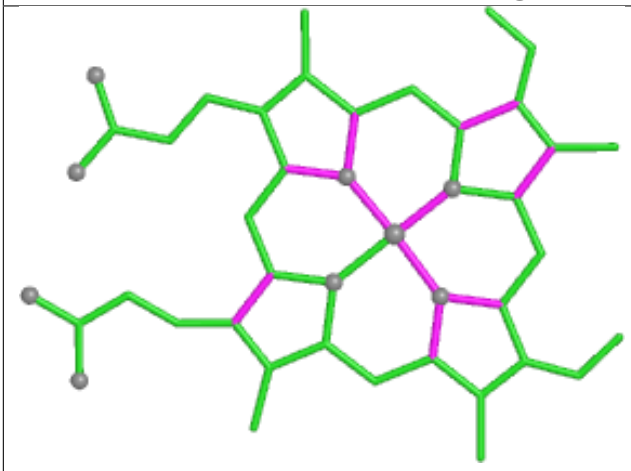


Torsions

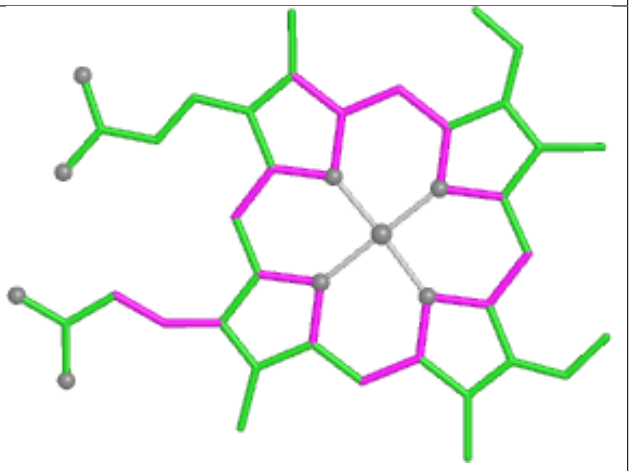


Rings

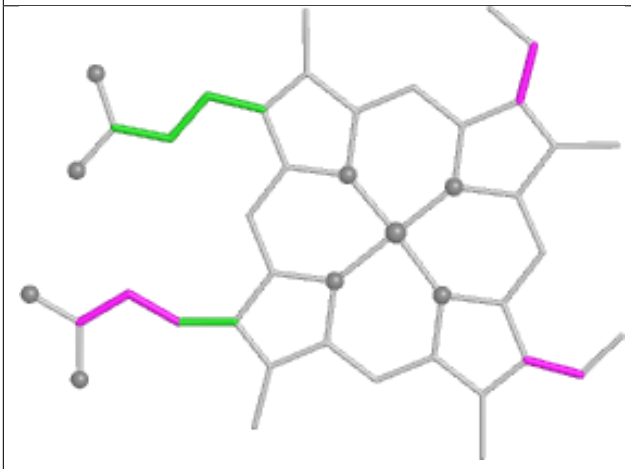
Ligand HEM 1E 103



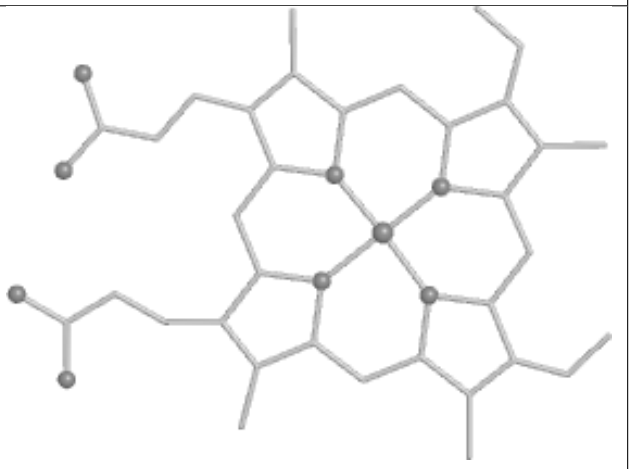
Bond lengths



Bond angles

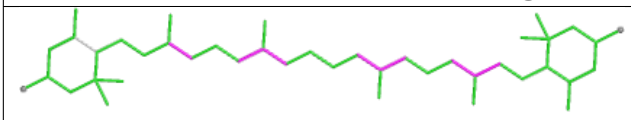


Torsions



Rings

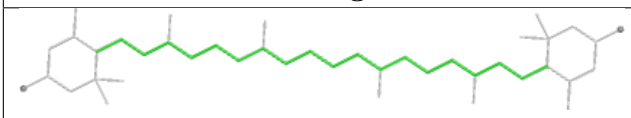
Ligand LUT 07 313



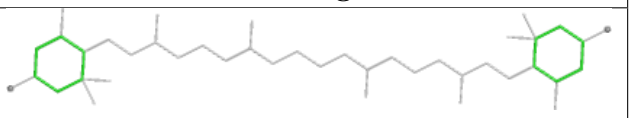
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Bond angles

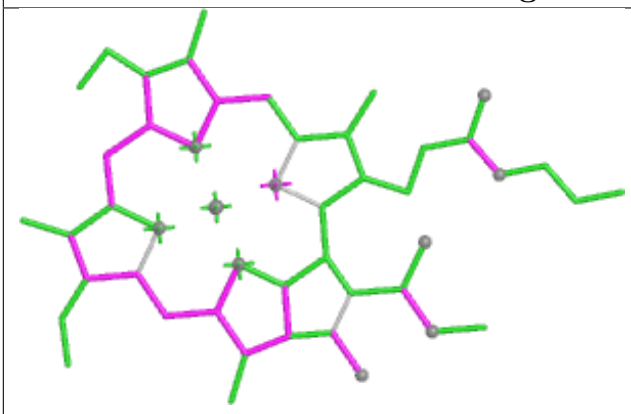


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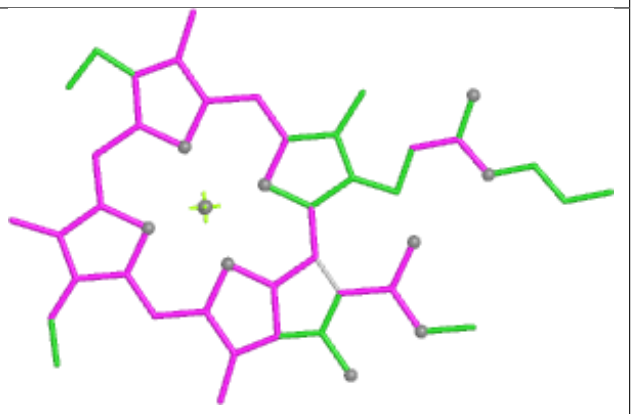


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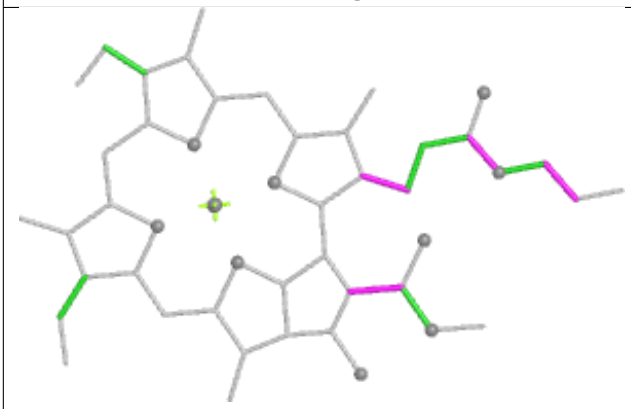
Ligand CLA 07 309



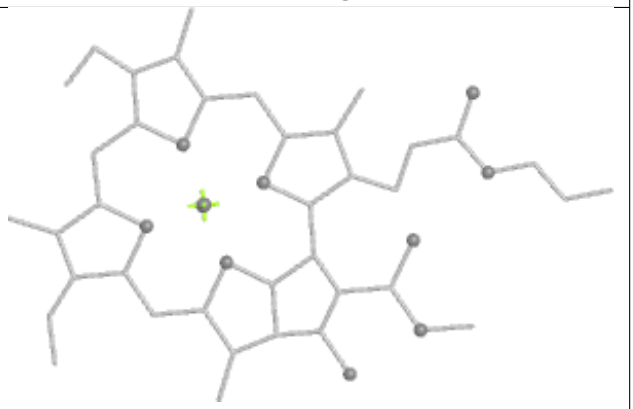
Bond lengths



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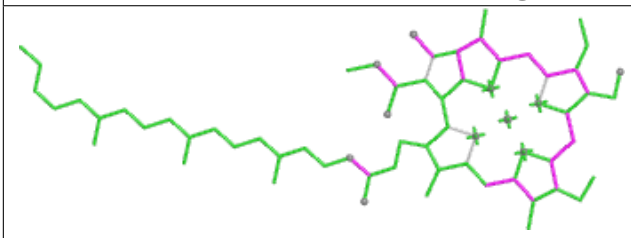


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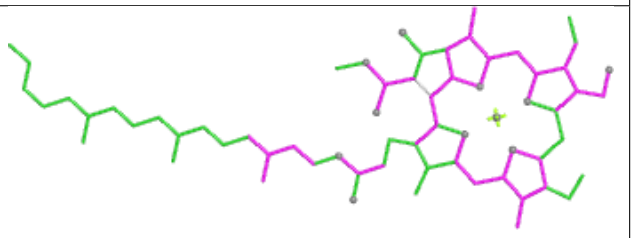


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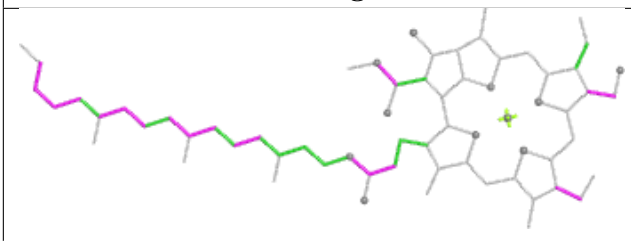
Ligand CHL 1N 302



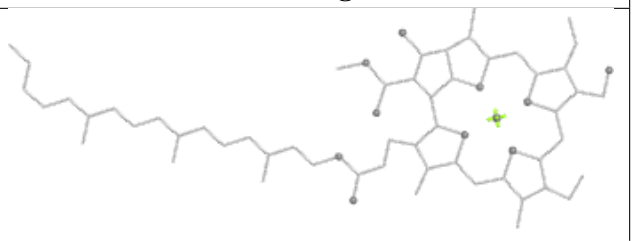
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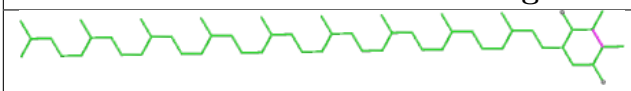


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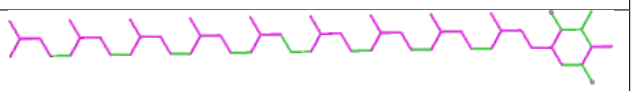


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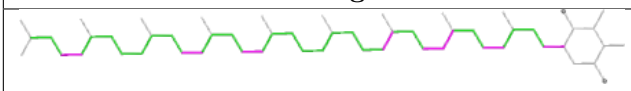
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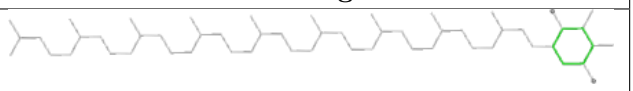
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Bond angles

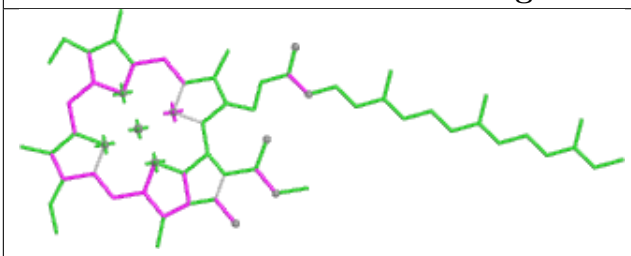


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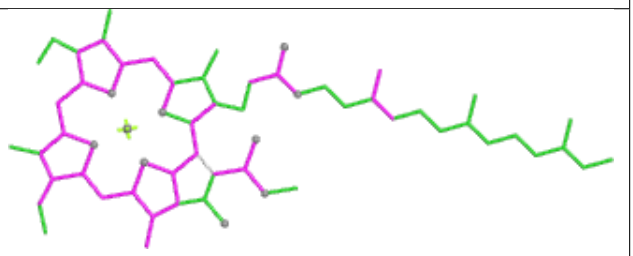


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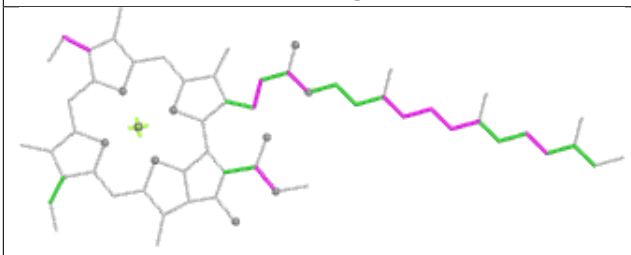
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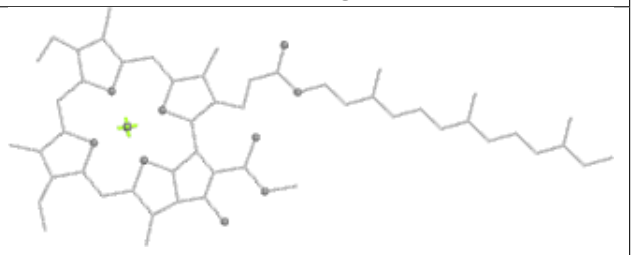
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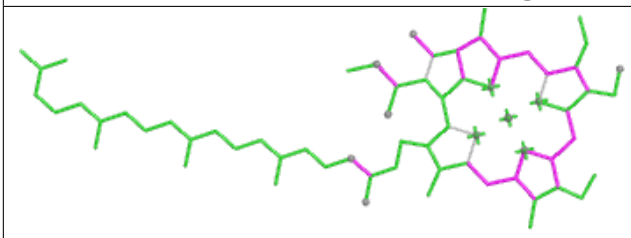


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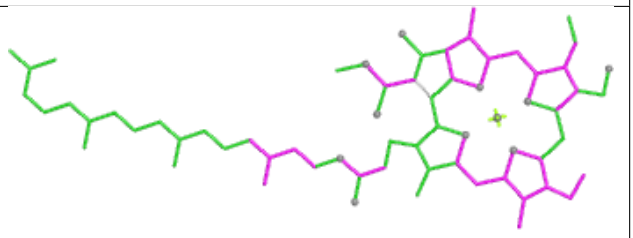


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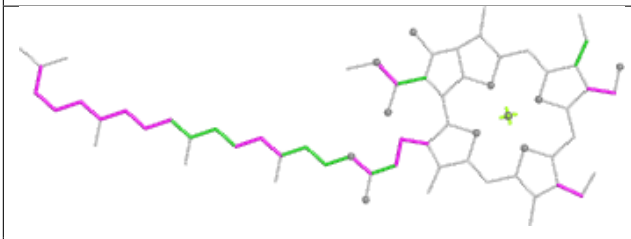
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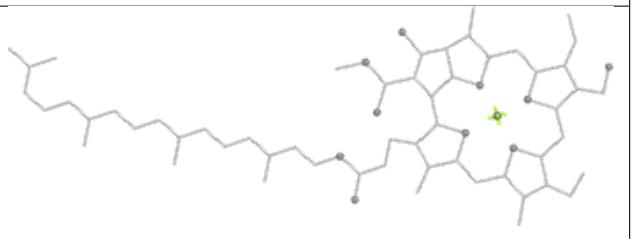
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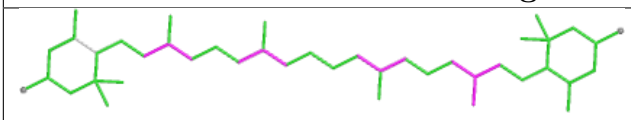


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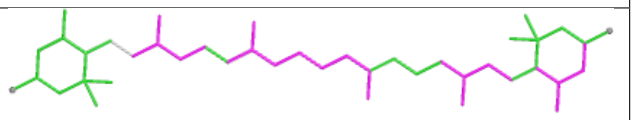


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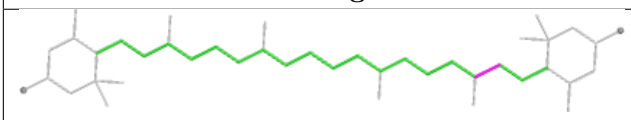
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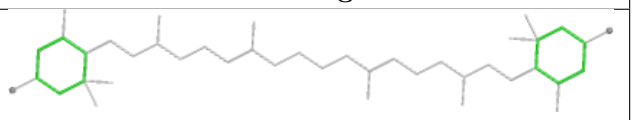
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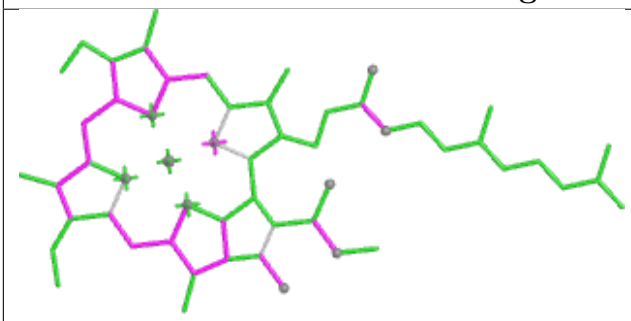


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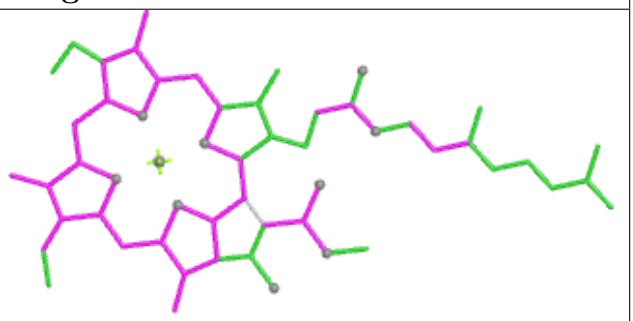


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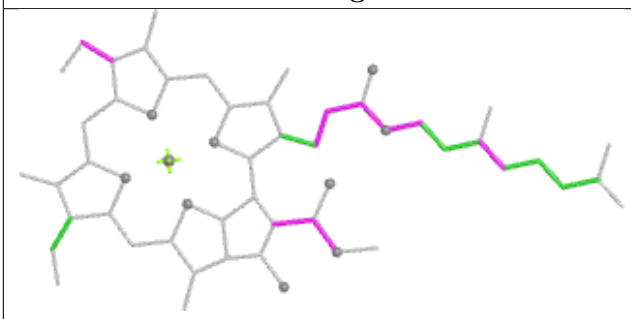
Ligand CLA 1g 613



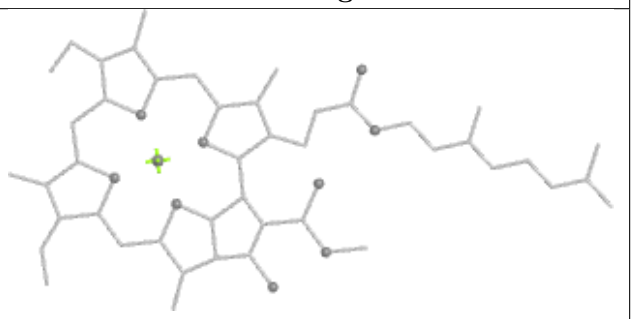
Bond lengths



Bond angles

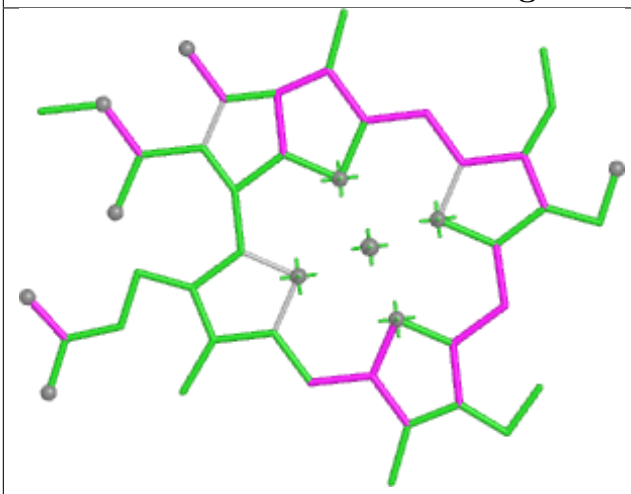


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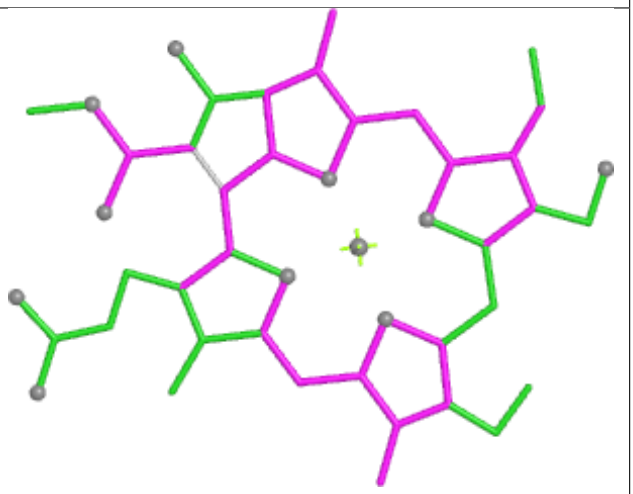


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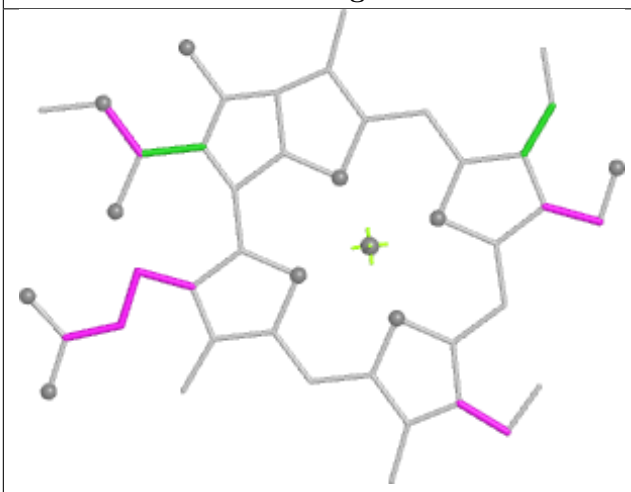
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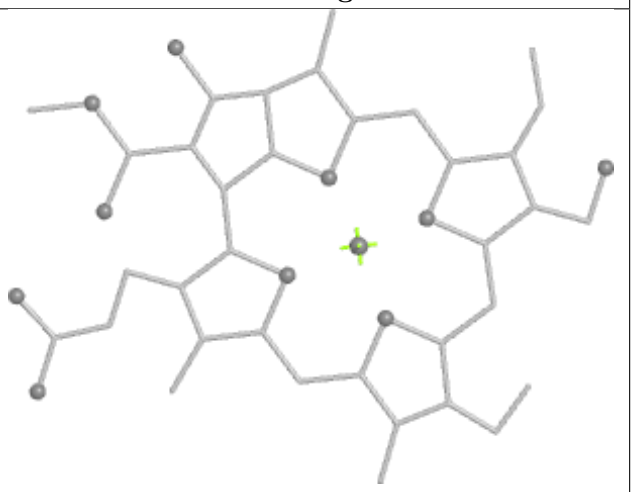
Bond lengths



Bond angles

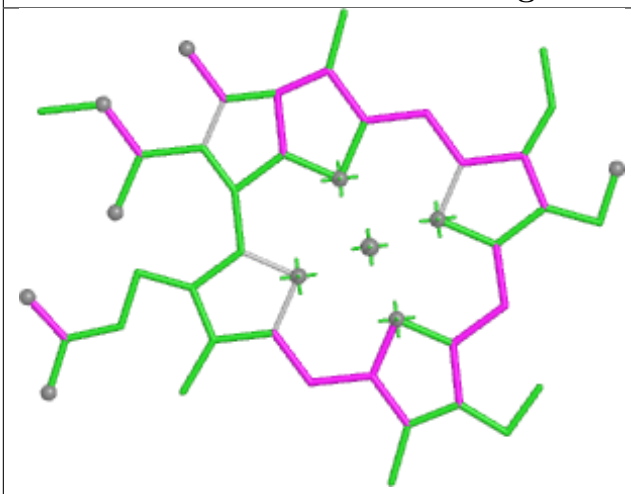


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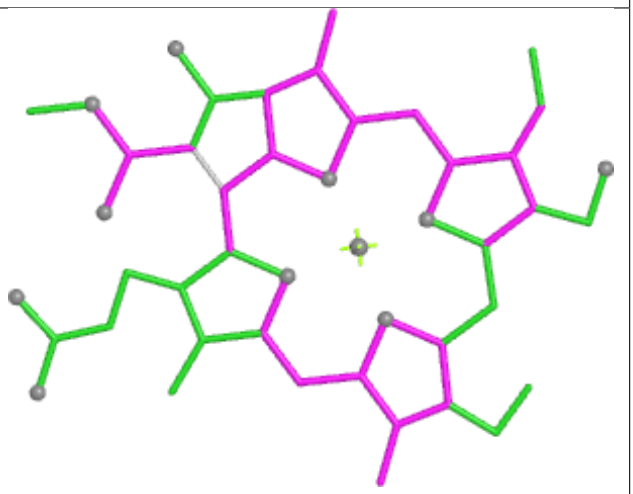


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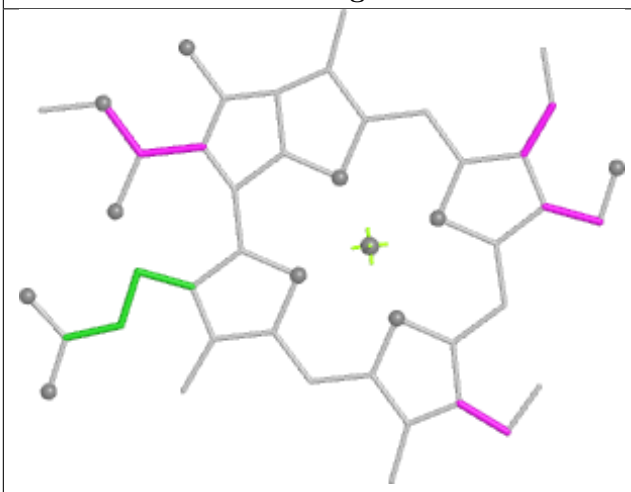
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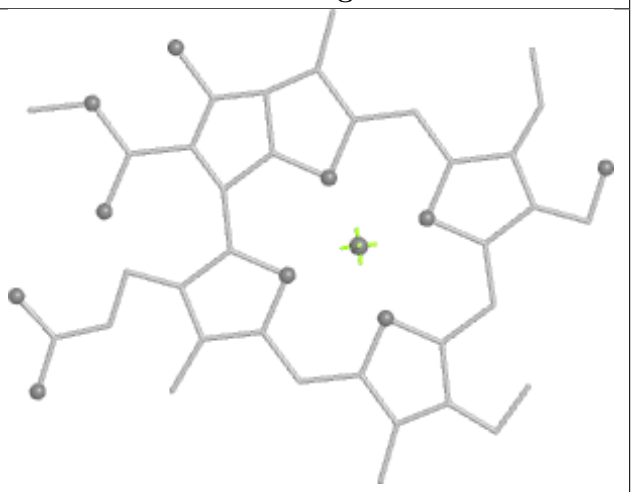
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Bond angles

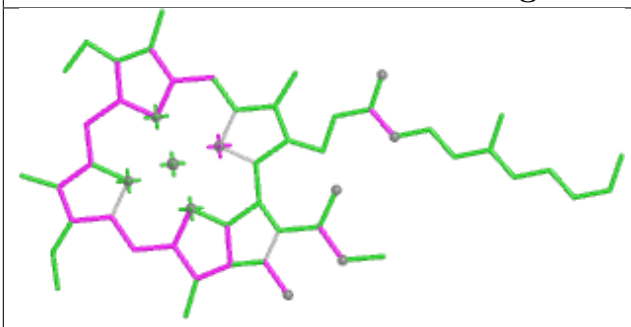


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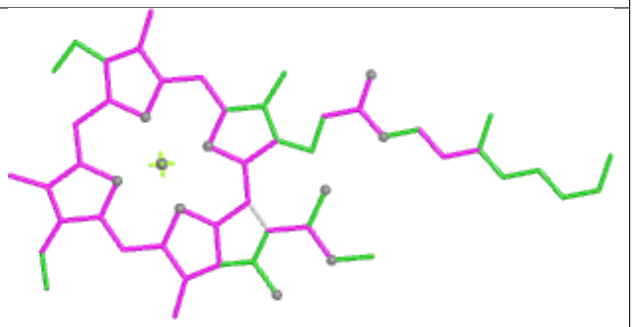


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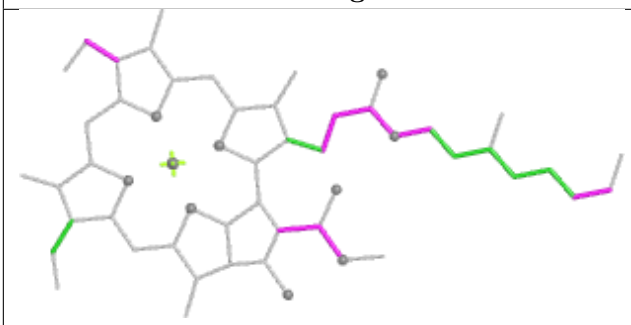
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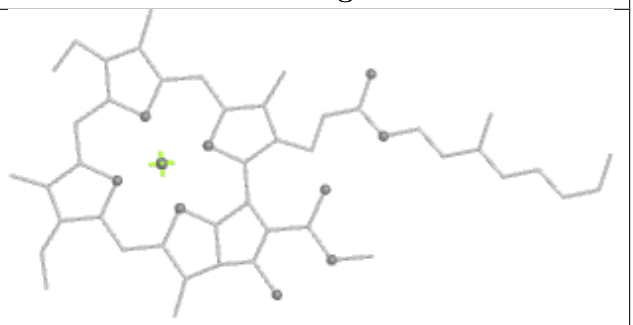
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Bond angles

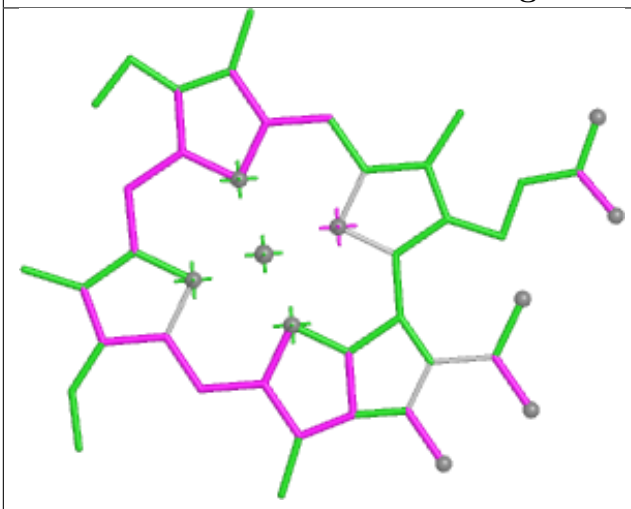


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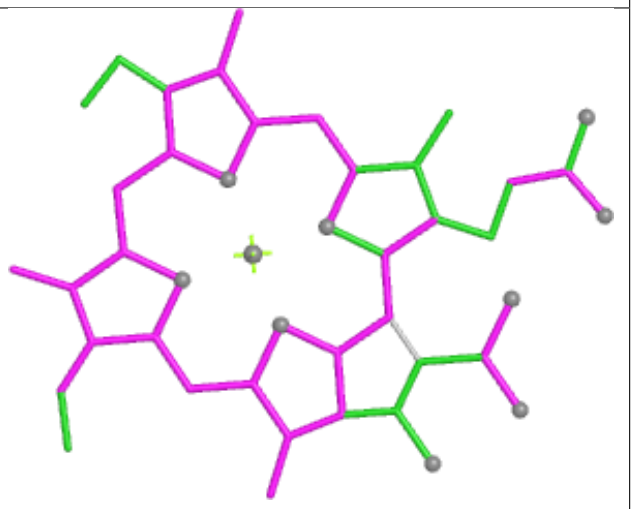


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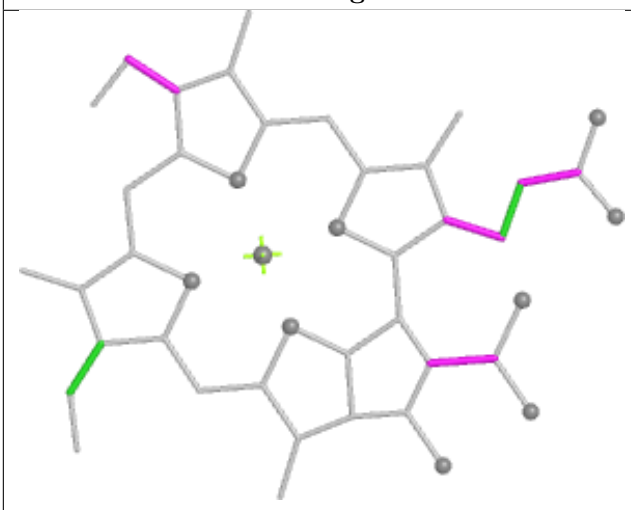
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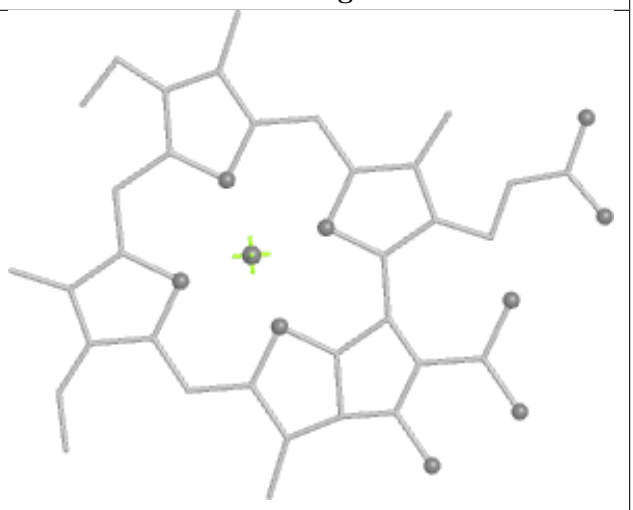
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Bond angles

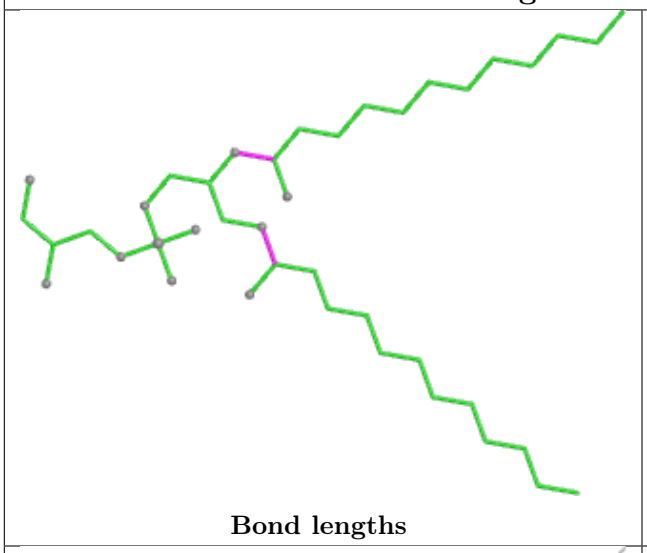


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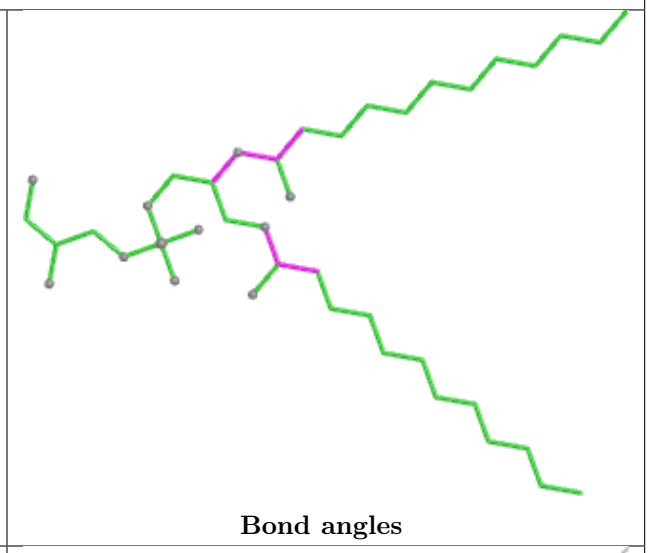


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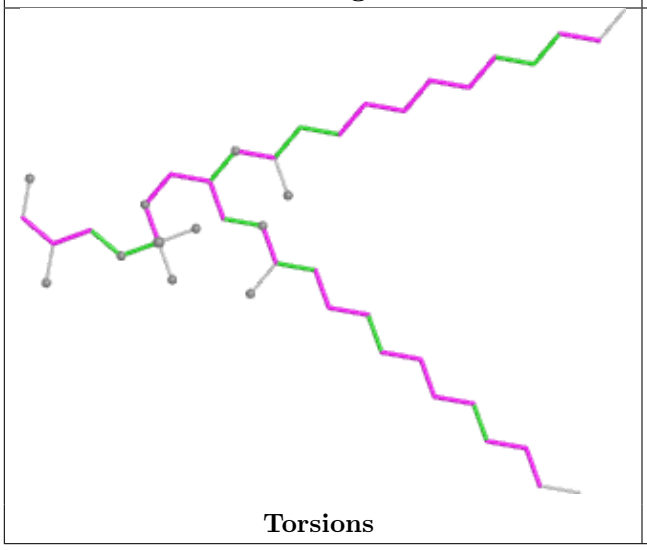
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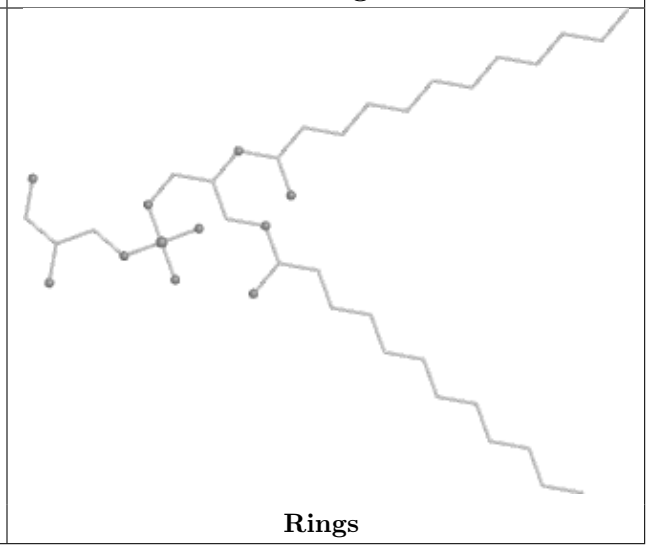
Bond lengths



Bond angles

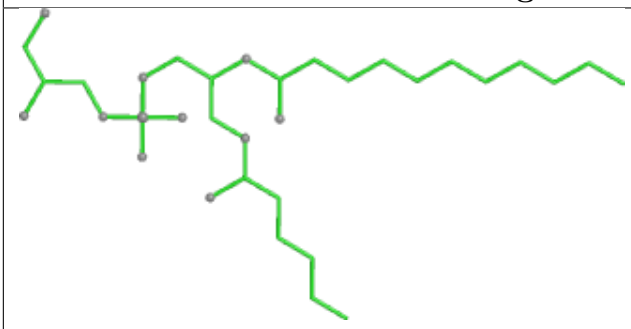


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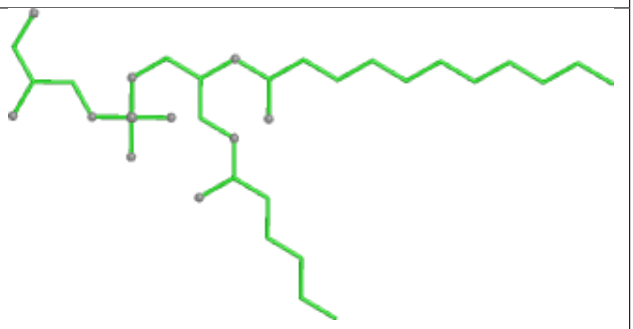


Rings

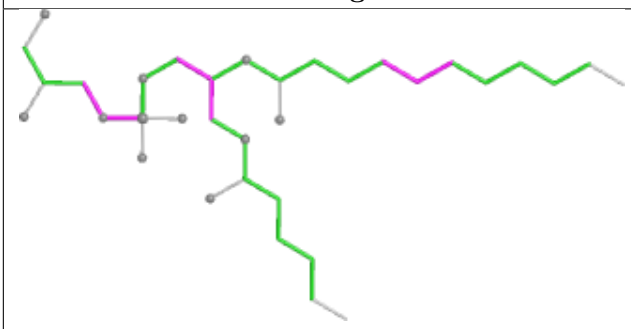
Ligand LHG 1S 301



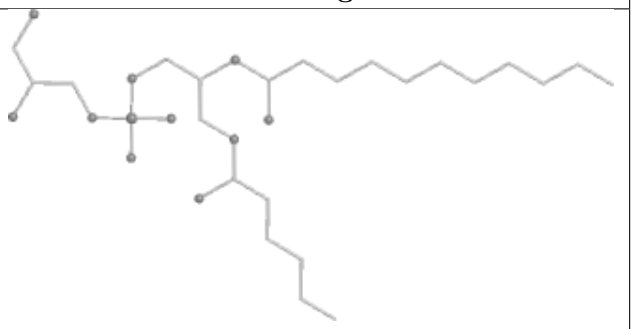
Bond lengths



Bond angles

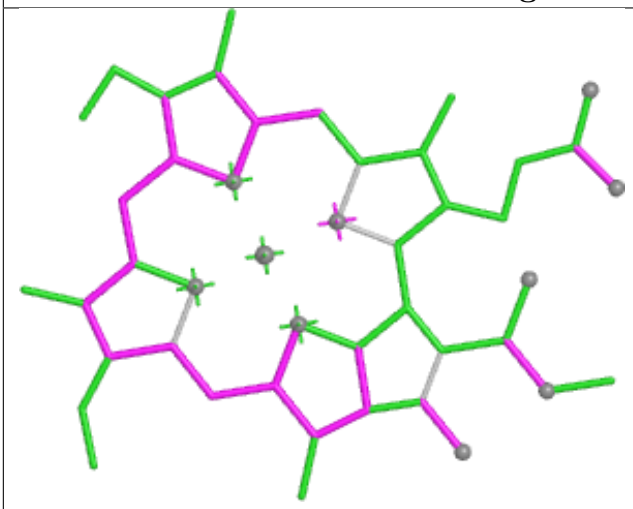


Torsions

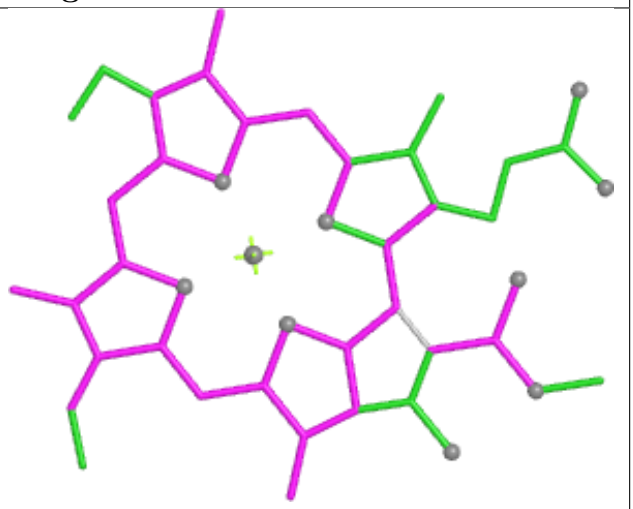


Rings

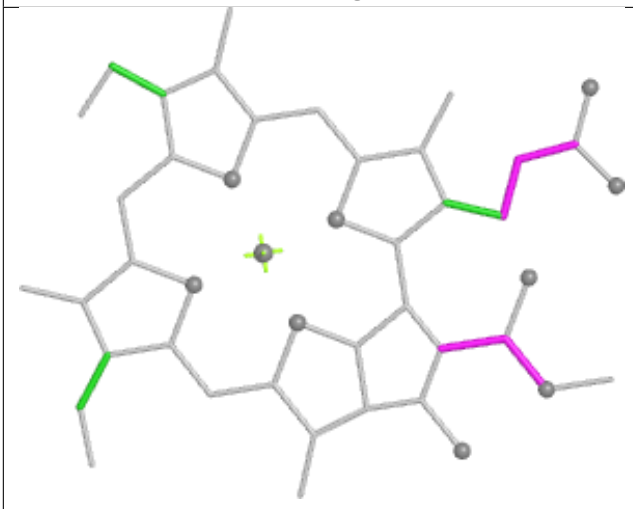
Ligand CLA 1g 614



Bond lengths



Bond angles

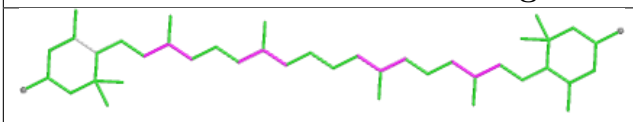


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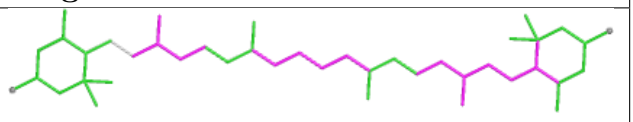


Rings

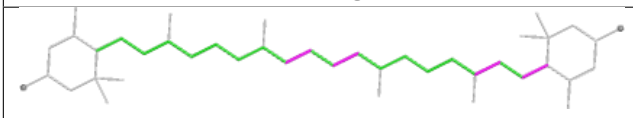
Ligand LUT 1g 616



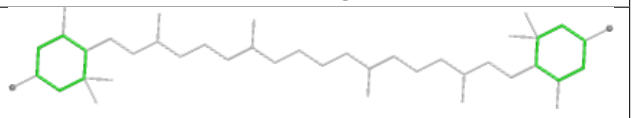
Bond lengths



Bond angles

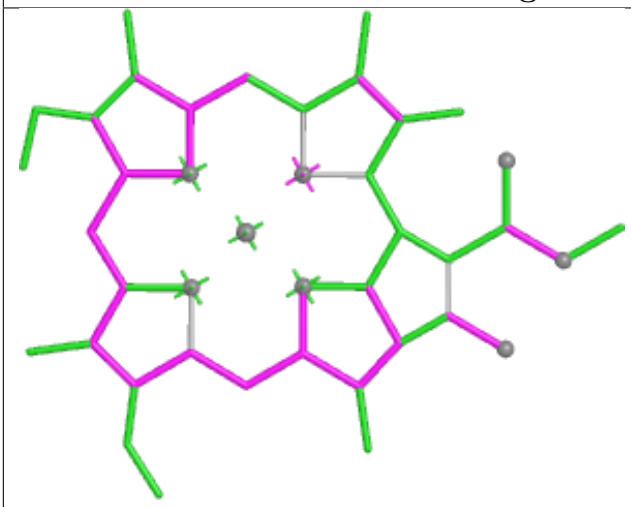


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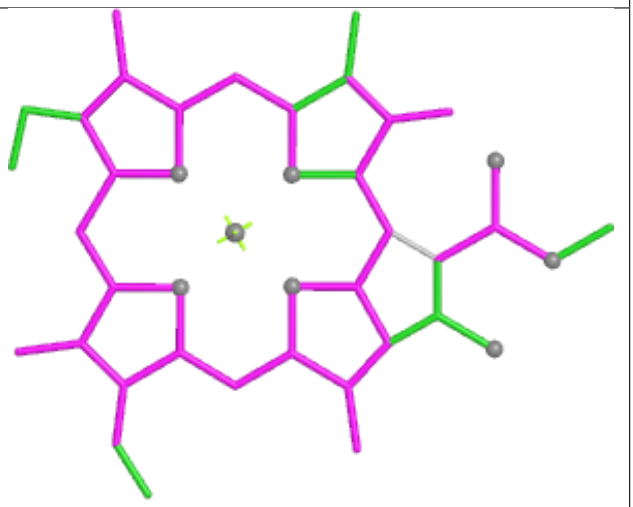


Rings

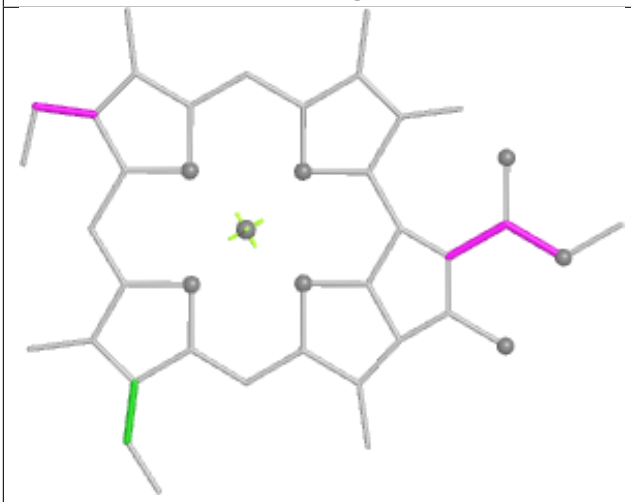
Ligand CLA 09 310



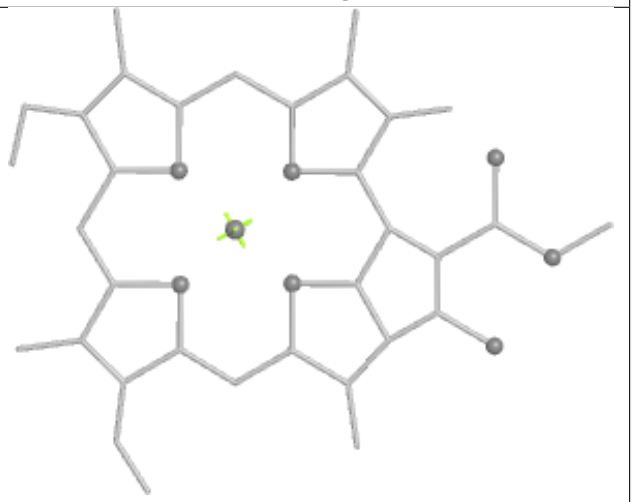
Bond lengths



Bond angles

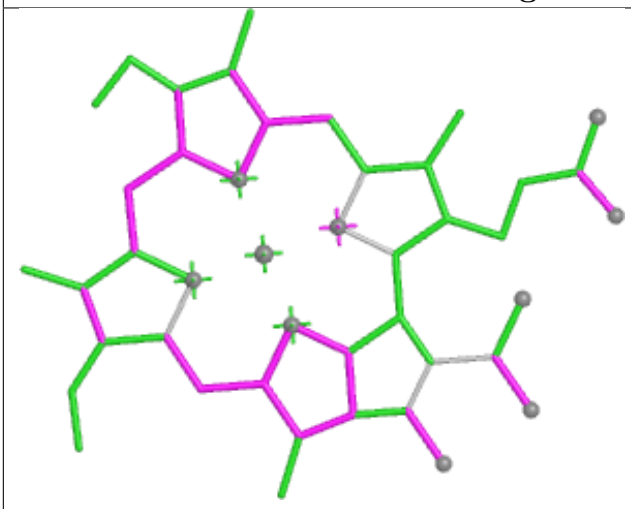


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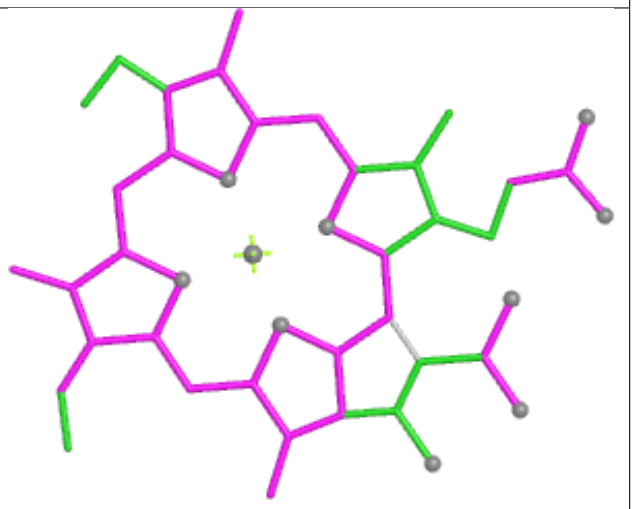


Rings

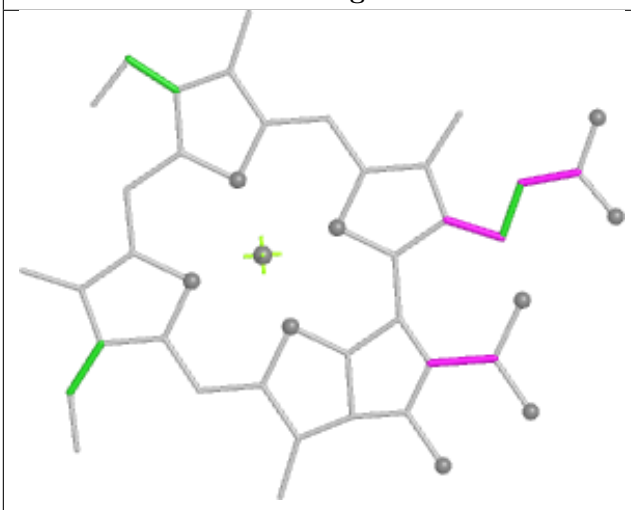
Ligand CLA 05 302



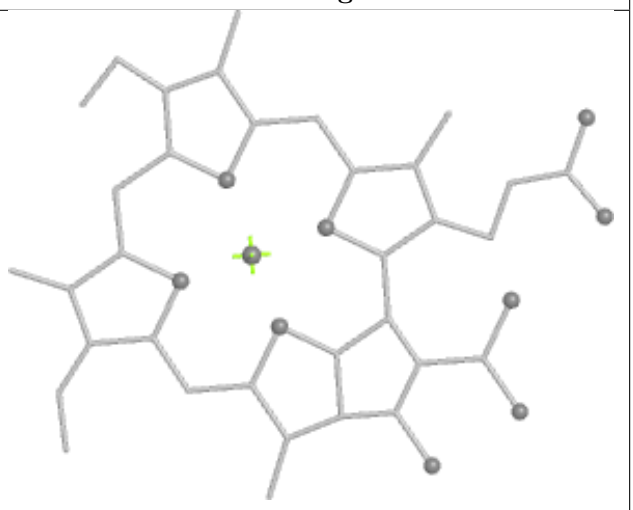
Bond lengths



Bond angles

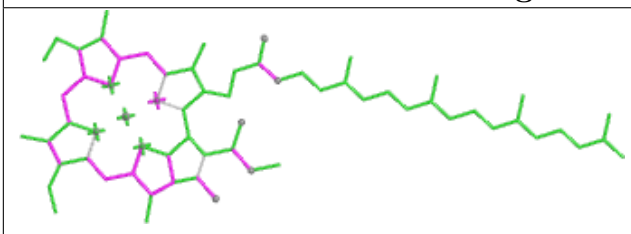


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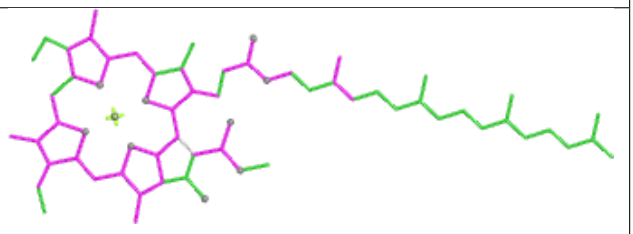


Rings

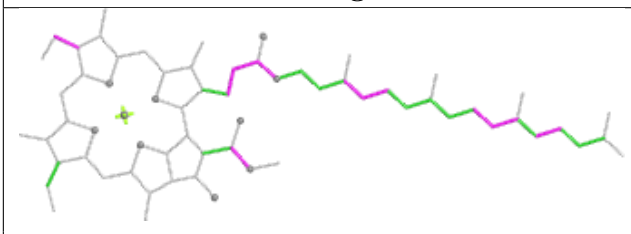
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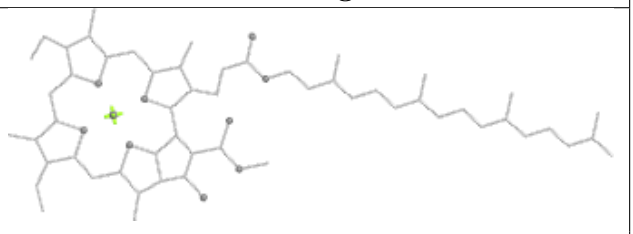
Bond lengths



Bond angles

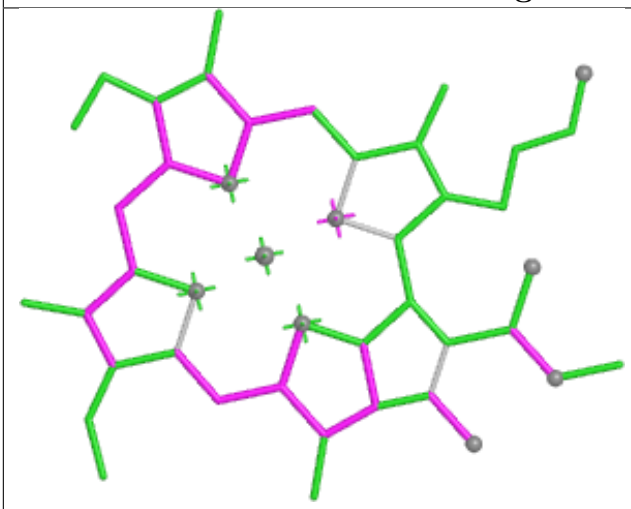


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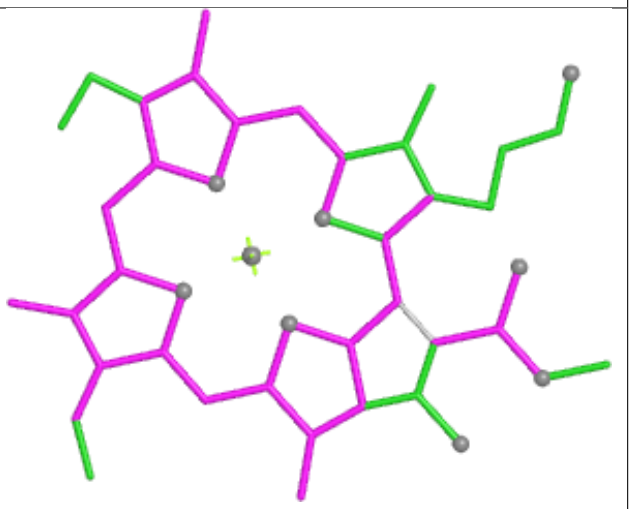


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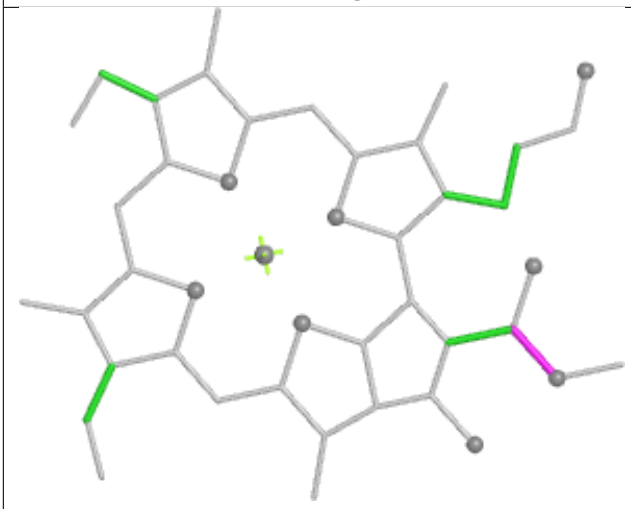
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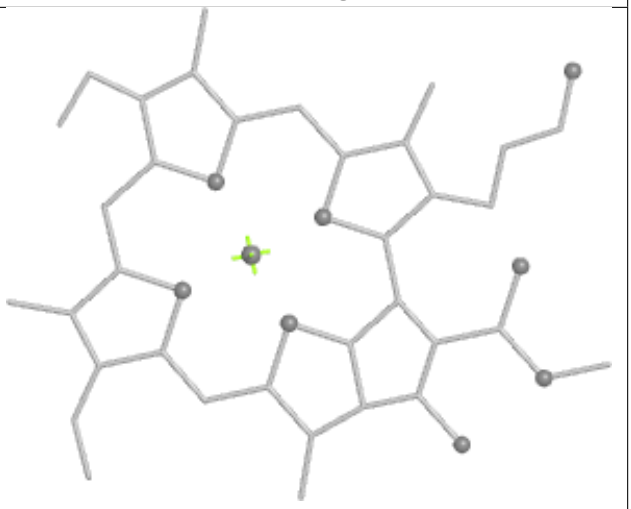
Bond lengths



Bond angles

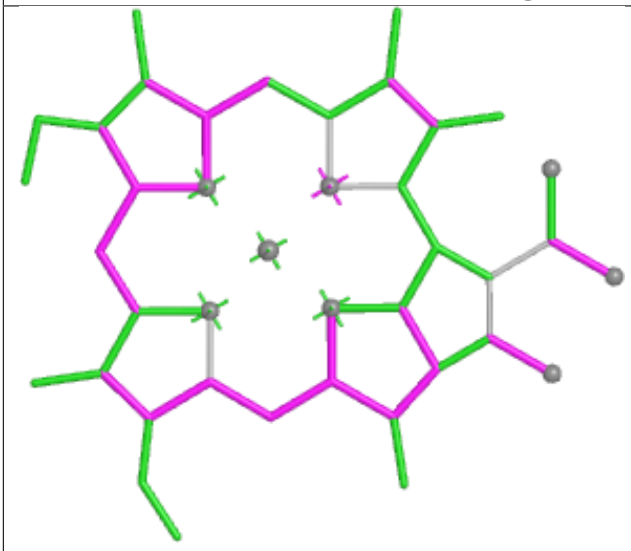


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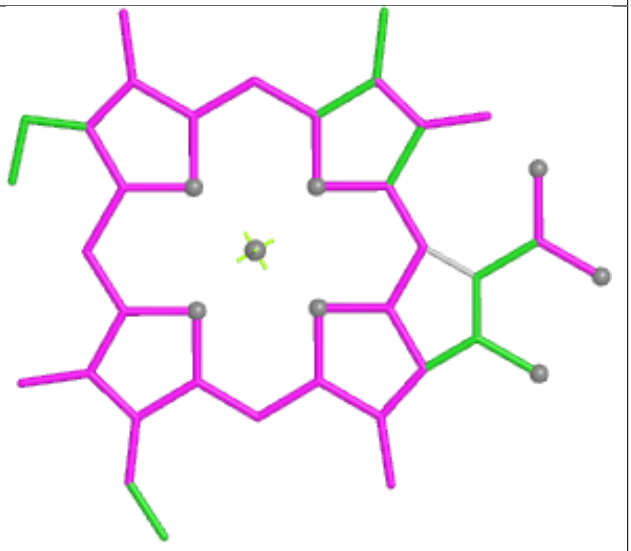


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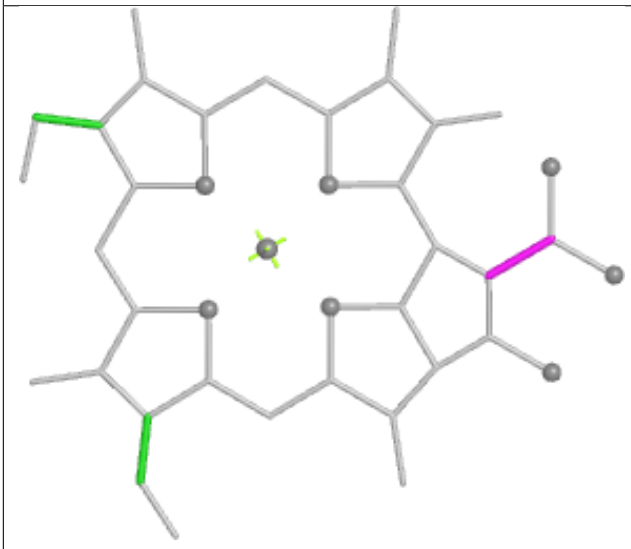
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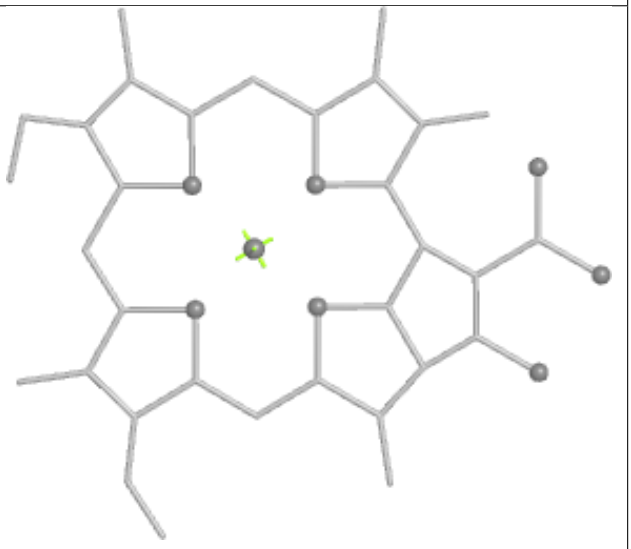
Bond lengths



Bond angles

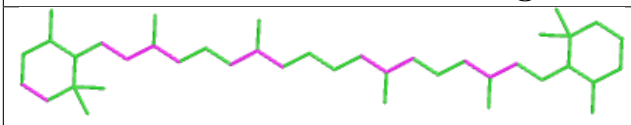


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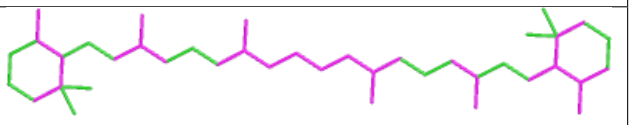


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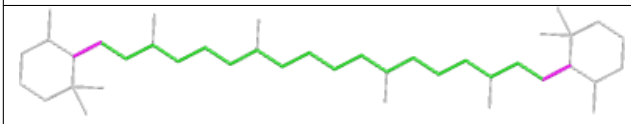
Ligand BCR 1d 409



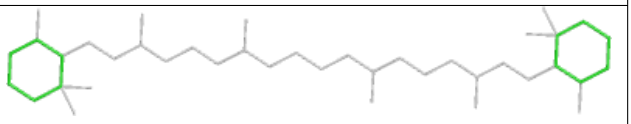
Bond lengths



Bond angles

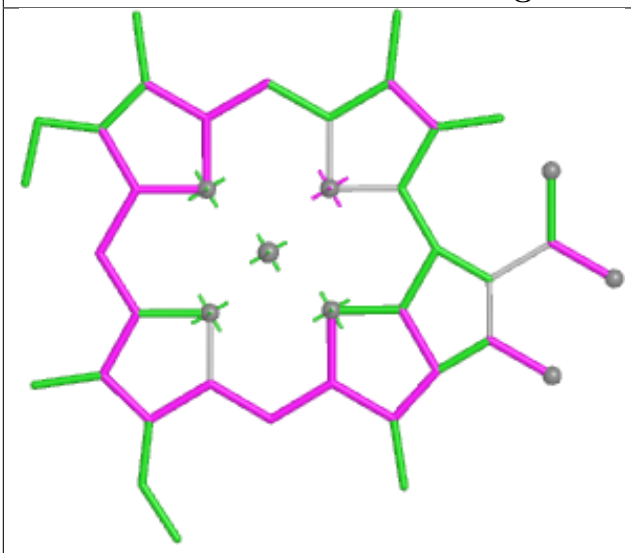


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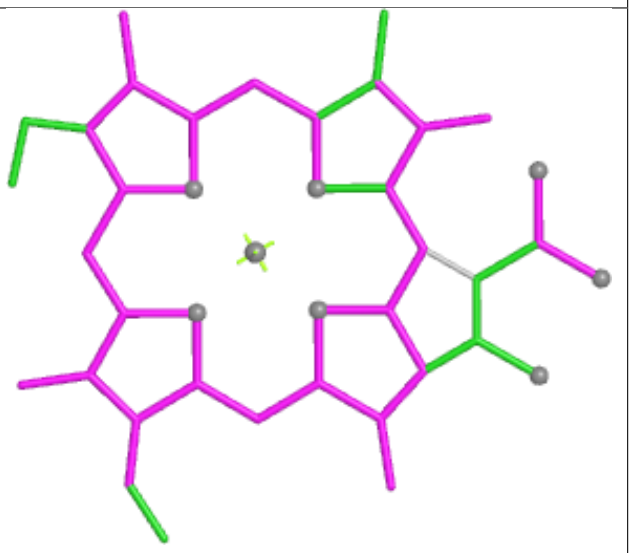


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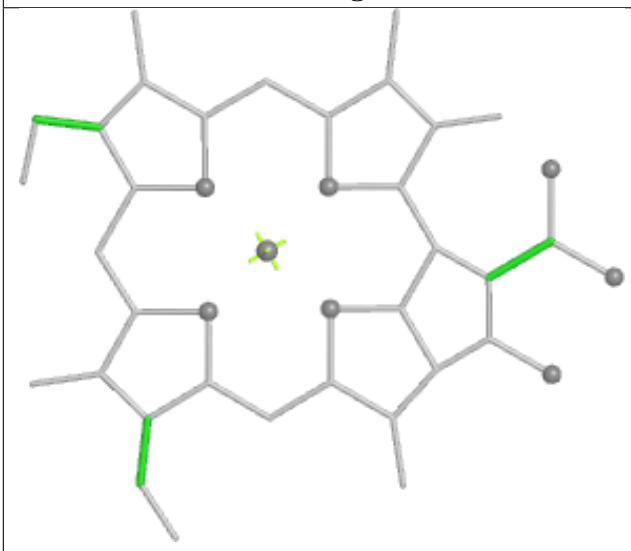
Ligand CLA 1N 312



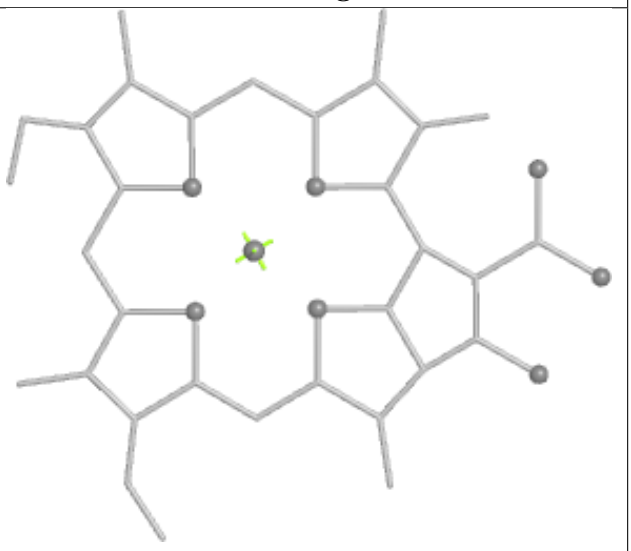
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Bond angles

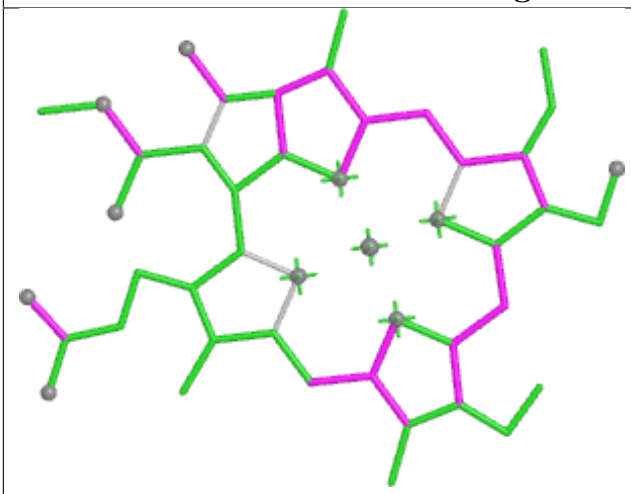


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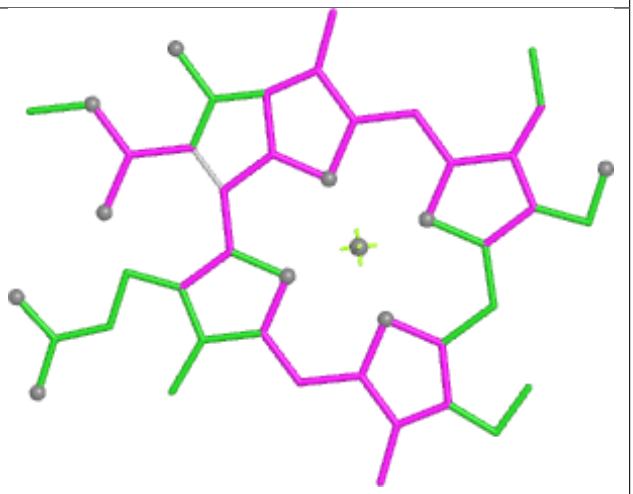


Rings

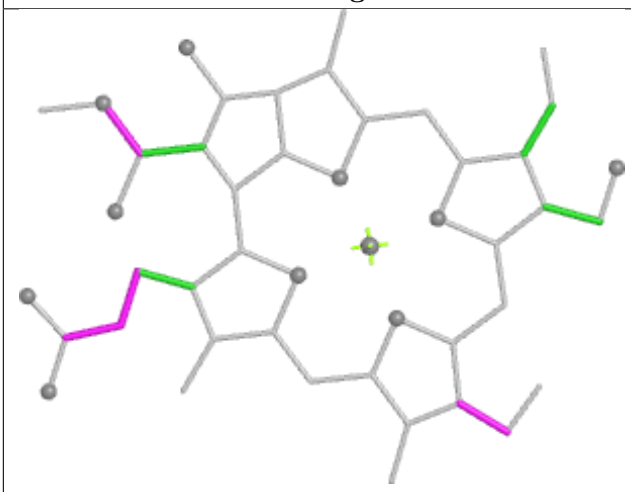
Ligand CHL 1N 307



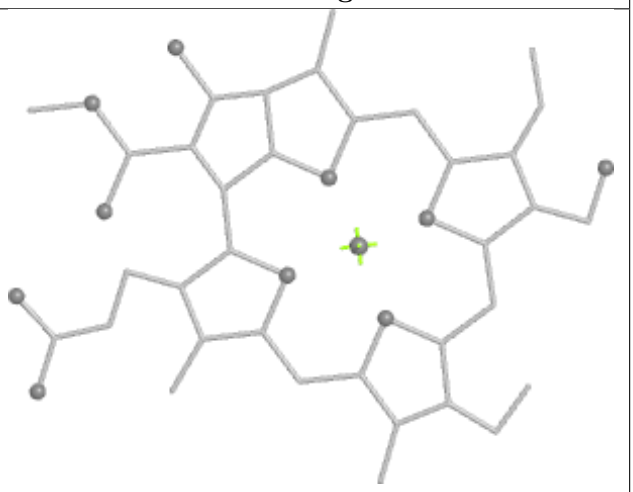
Bond lengths



Bond angles

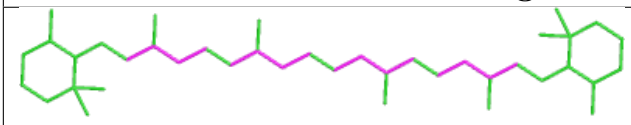


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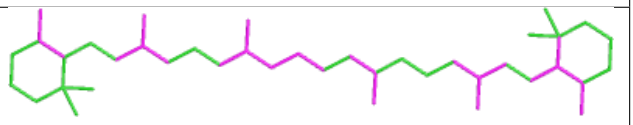


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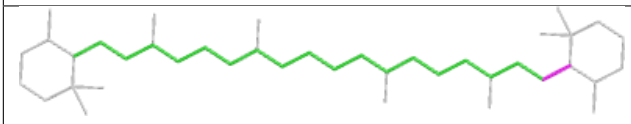
Ligand BCR 1b 618



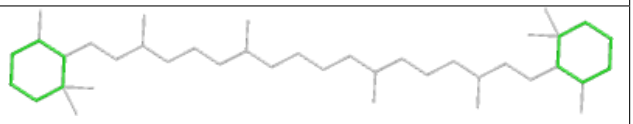
Bond lengths



Bond angles

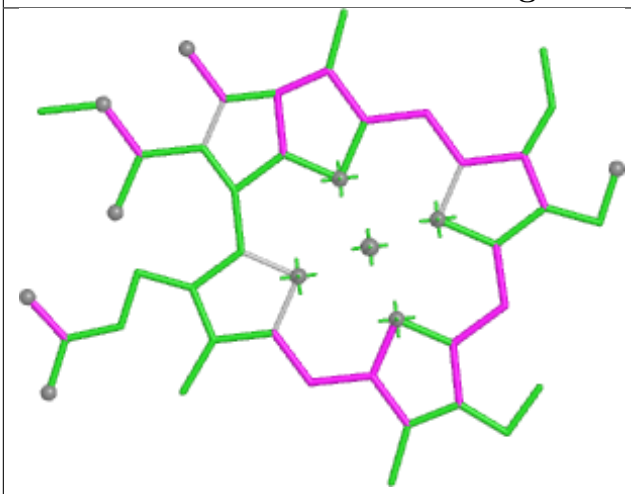


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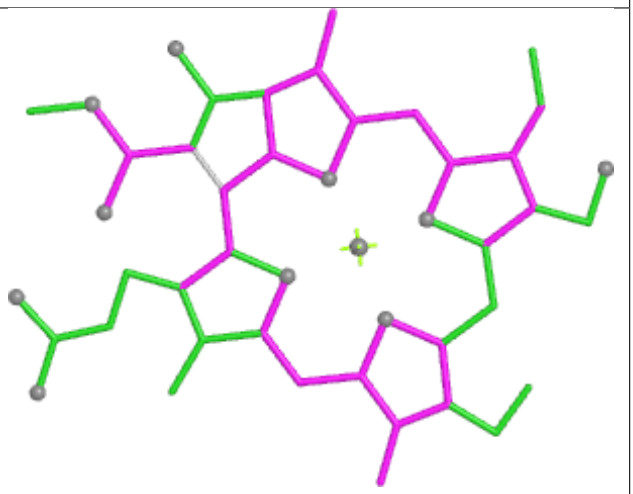


Rings

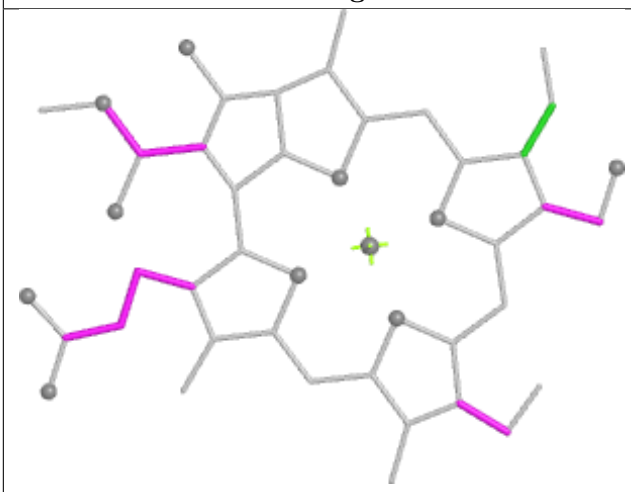
Ligand CHL 01 302



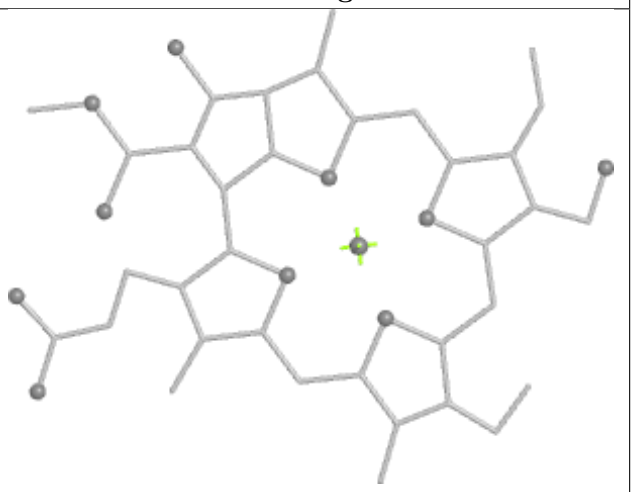
Bond lengths



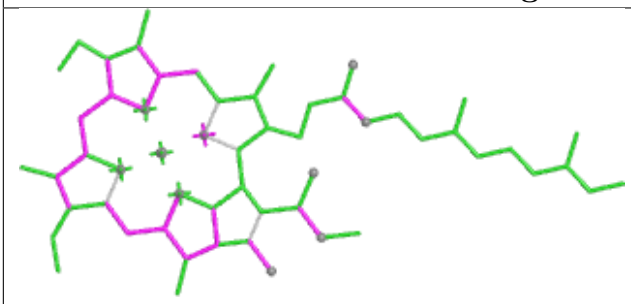
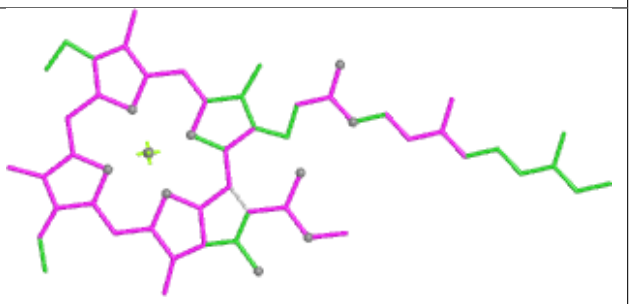
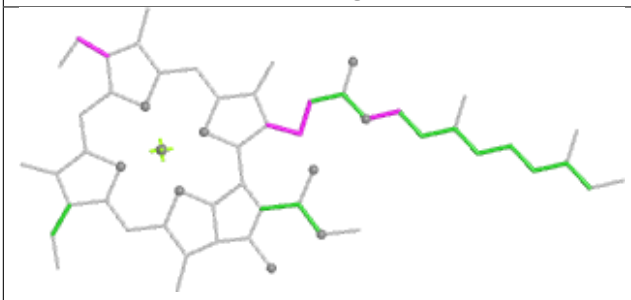
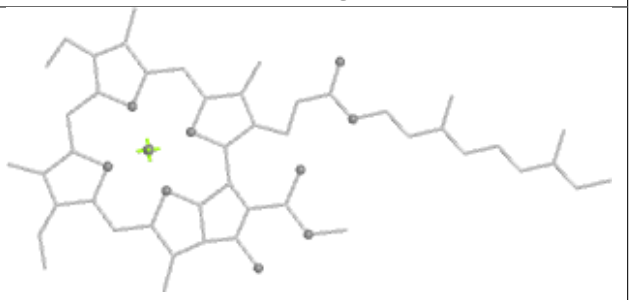
Bond angles



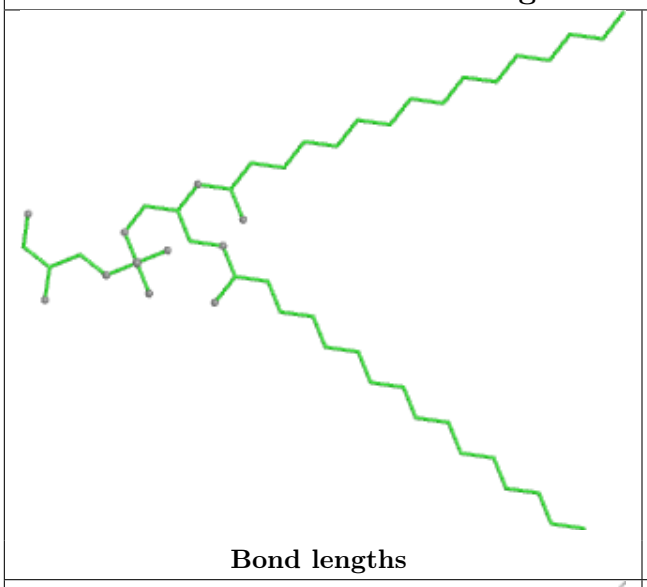
Torsions



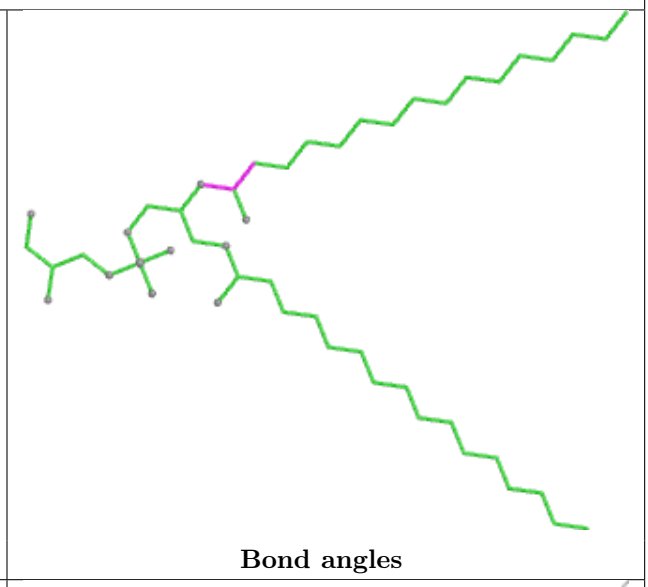
Rings

Ligand CLA 1r 309	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

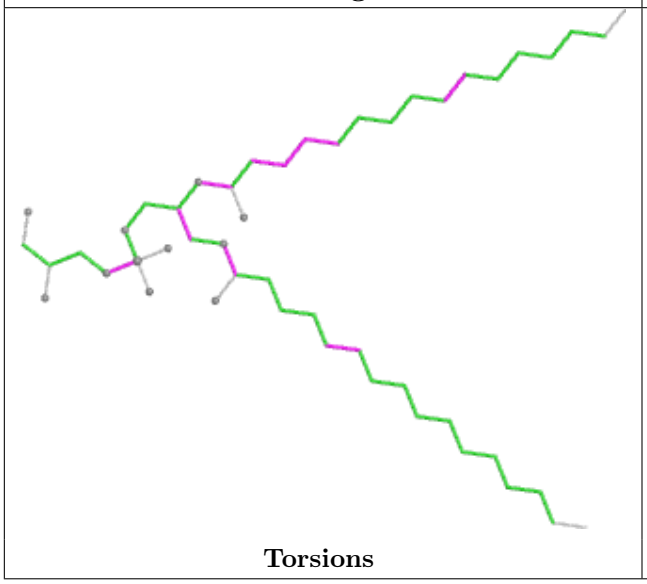
Ligand LHG 07 314



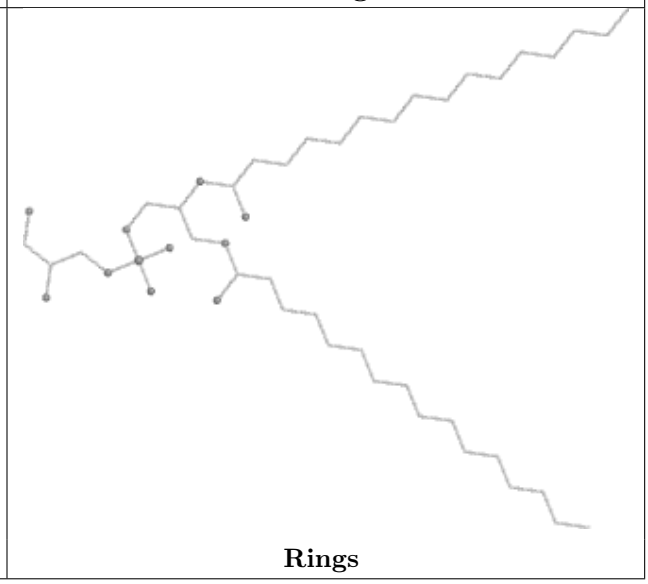
Bond lengths



Bond angles



Torsions

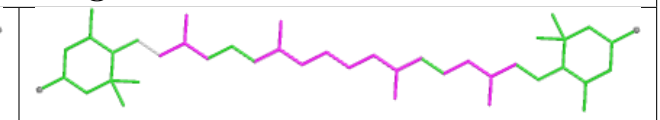


Rings

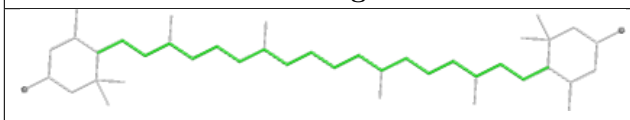
Ligand LUT 1g 615



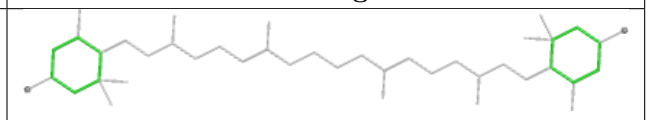
Bond lengths



Bond angles

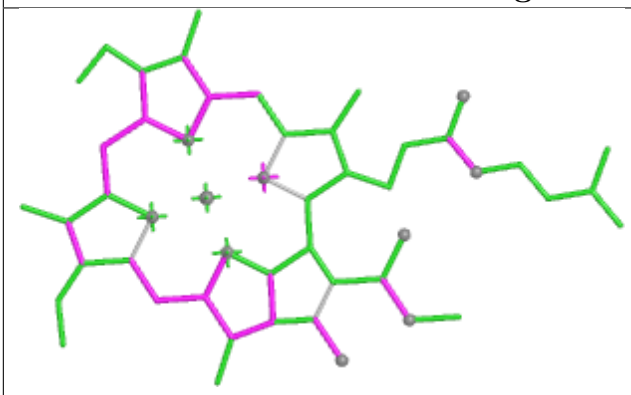


Torsions

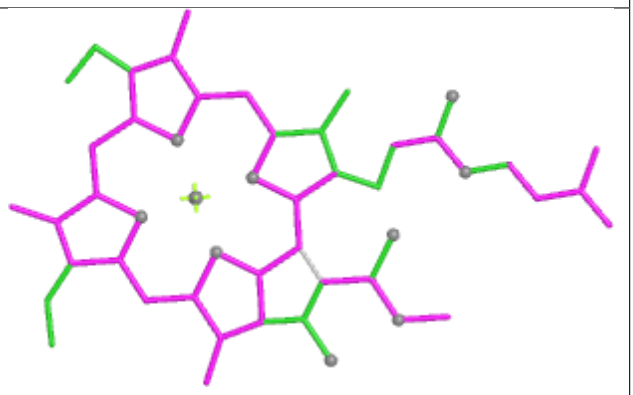


Rings

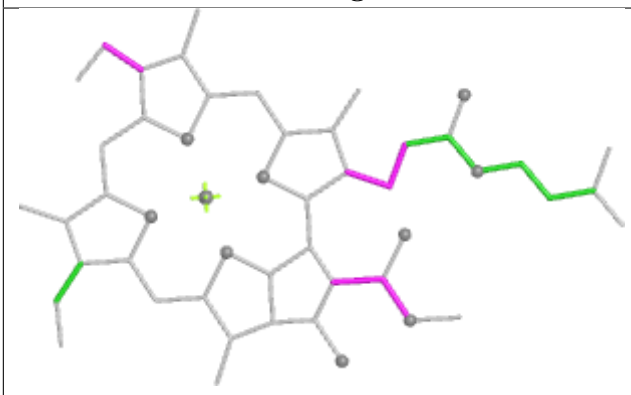
Ligand CLA 1D 402



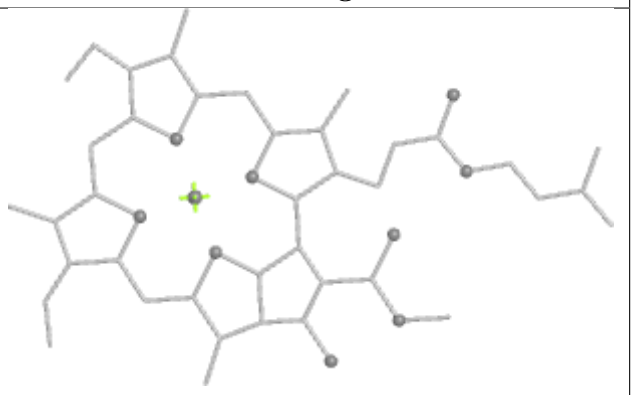
Bond lengths



Bond angles

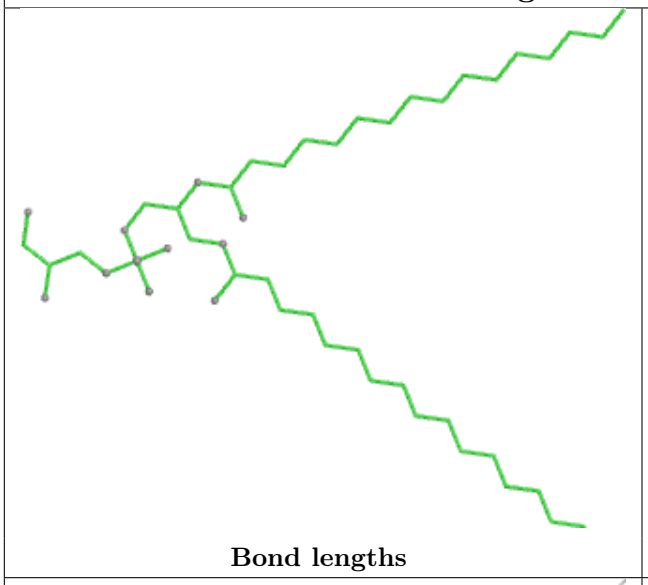


Torsions

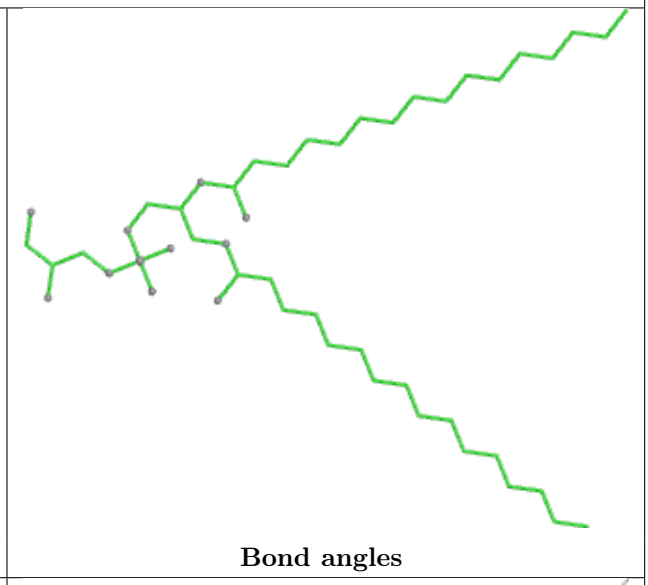


Rings

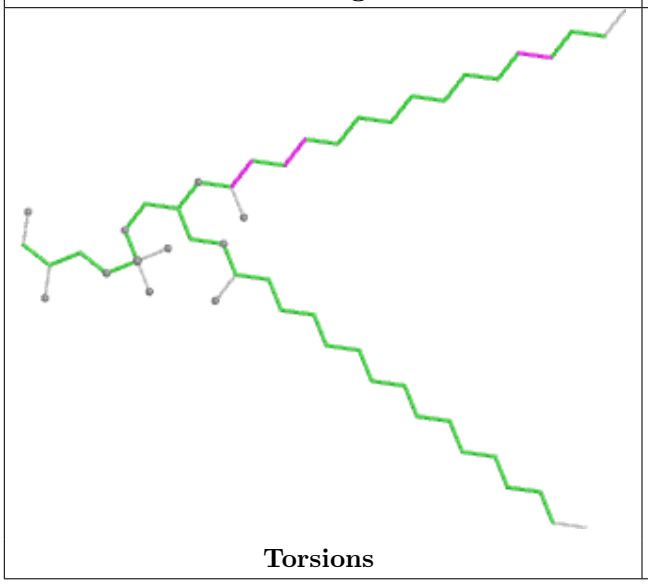
Ligand LHG 1b 628



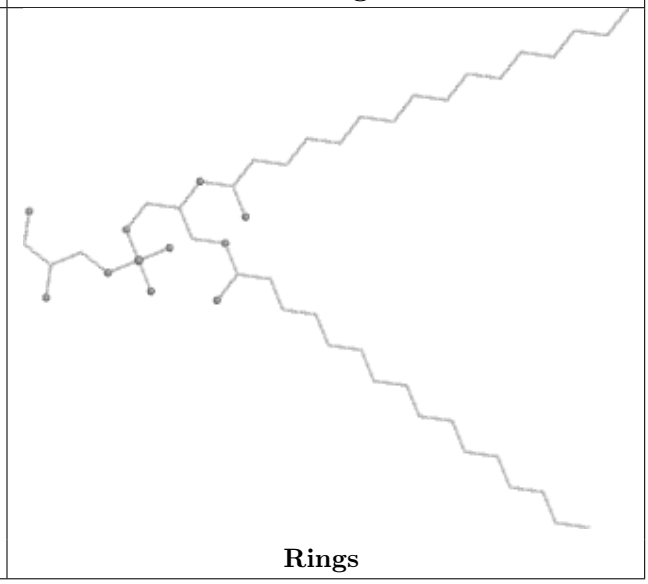
Bond lengths



Bond angles

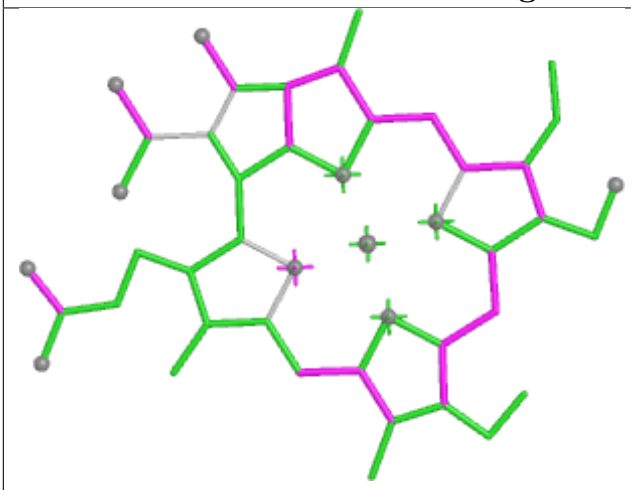


Torsions

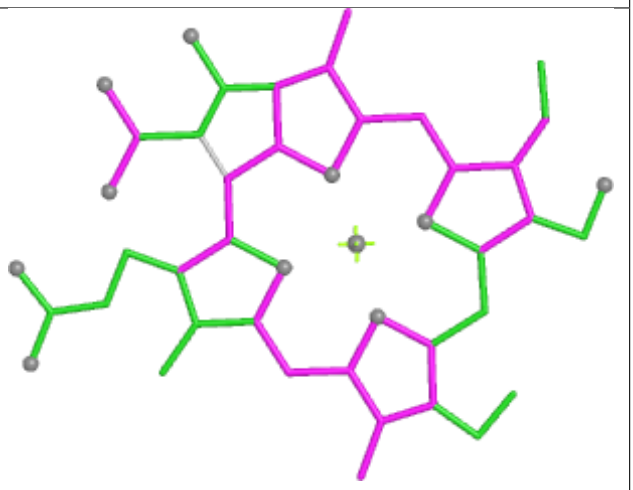


Rings

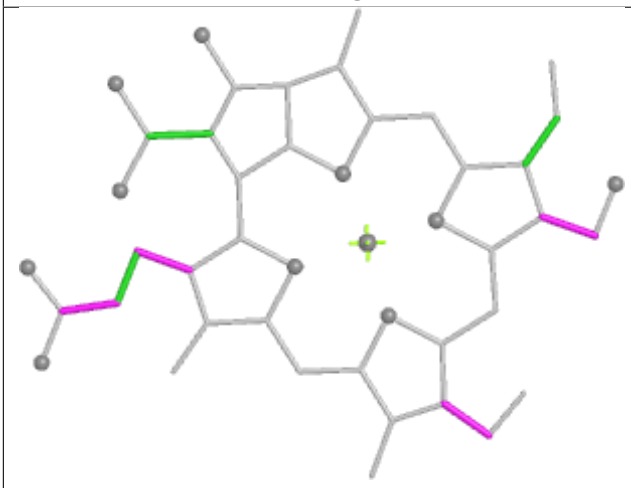
Ligand CHL 02 606



Bond lengths



Bond angles

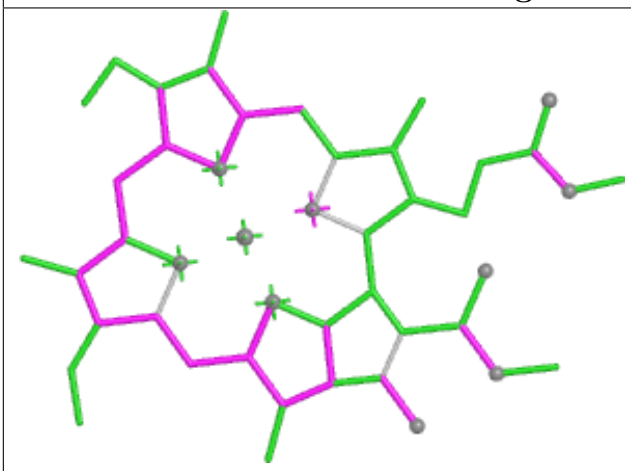


Torsions

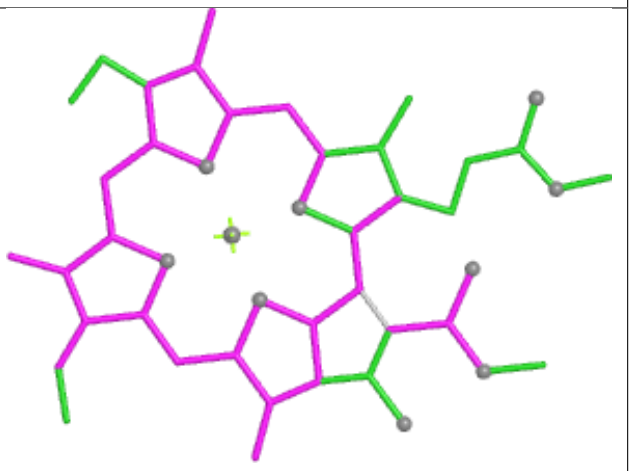


Rings

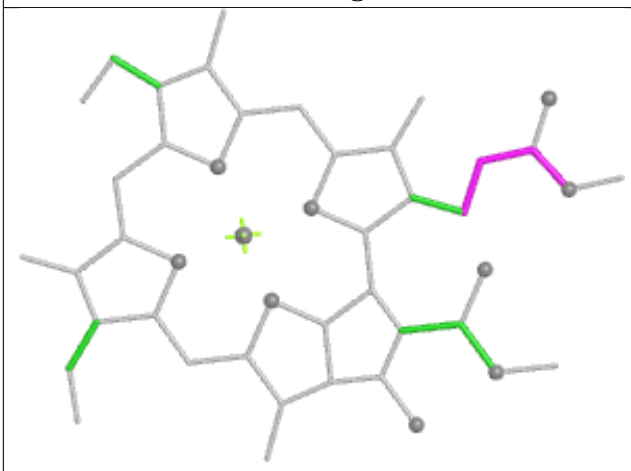
Ligand CLA 1R 314



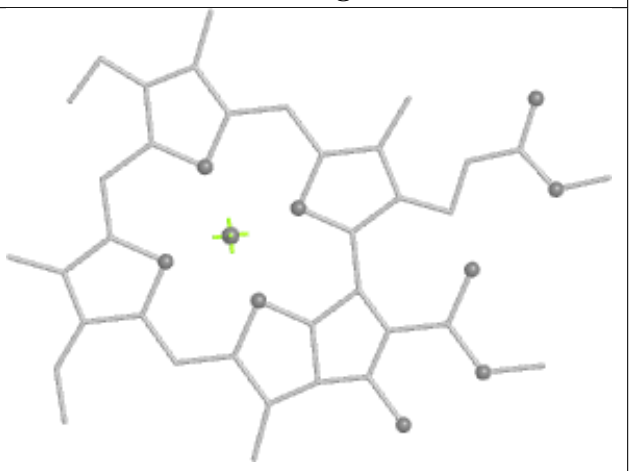
Bond lengths



Bond angles

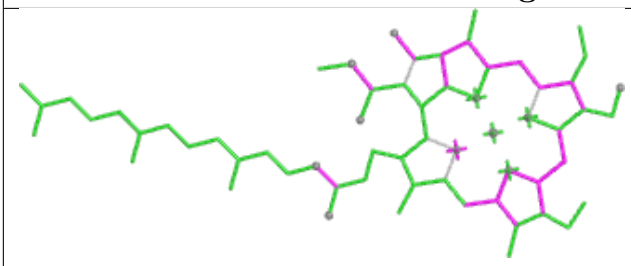


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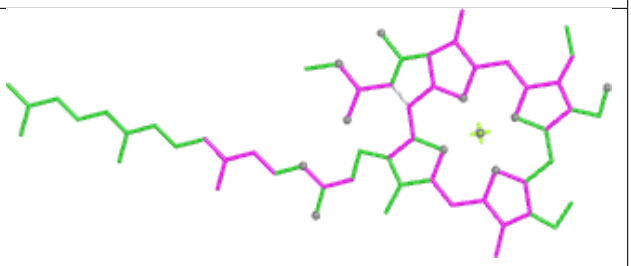


Rings

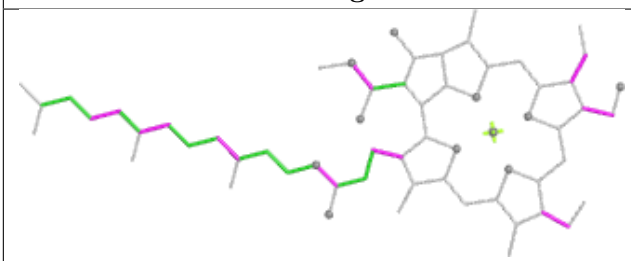
Ligand CHL 09 308



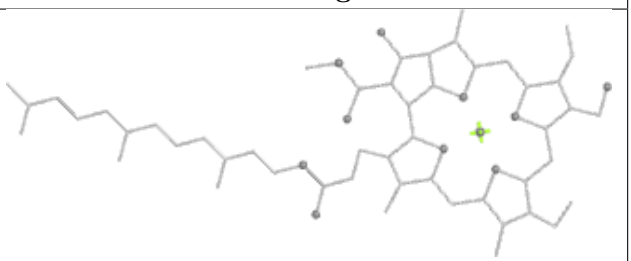
Bond lengths



Bond angles

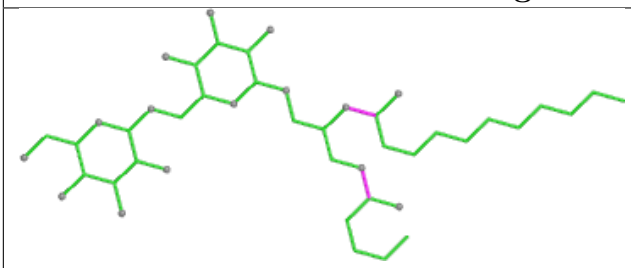


Torsions

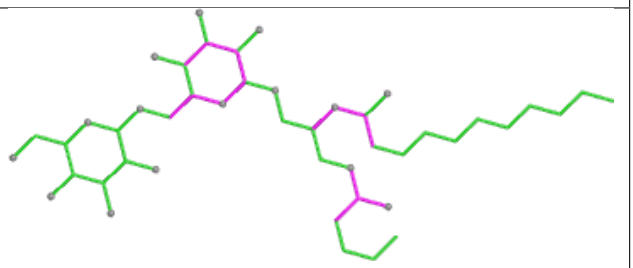


Rings

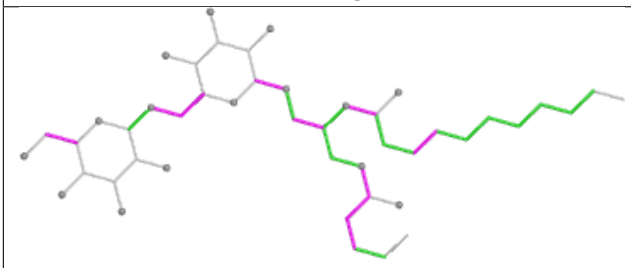
Ligand DGD 1S 320



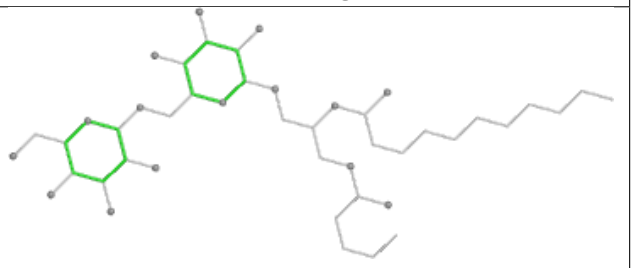
Bond lengths



Bond angles

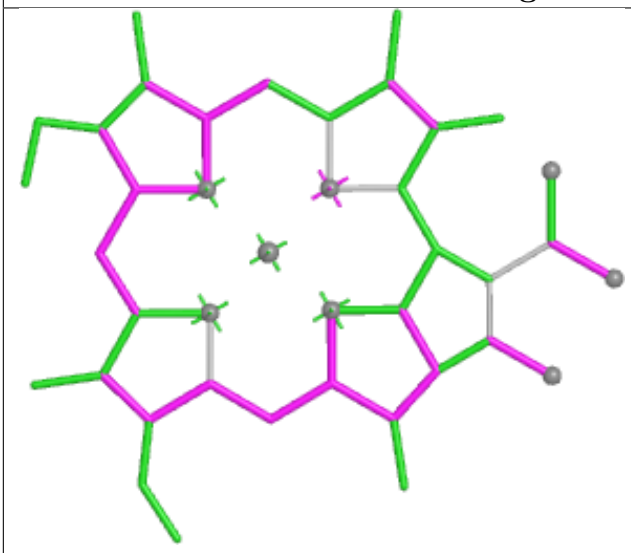


Torsions

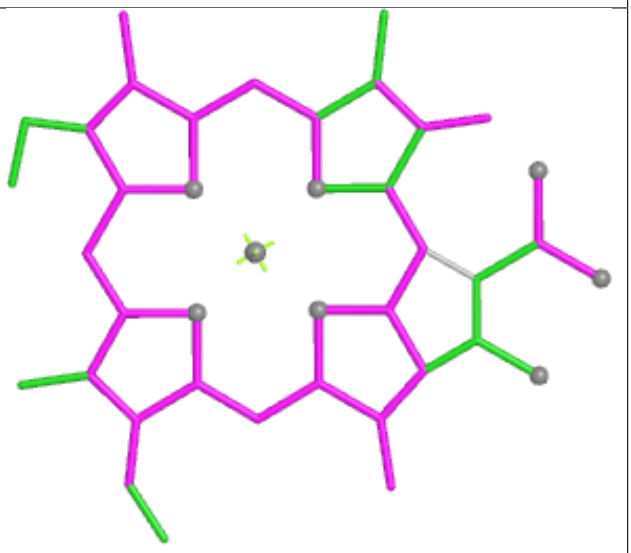


Rings

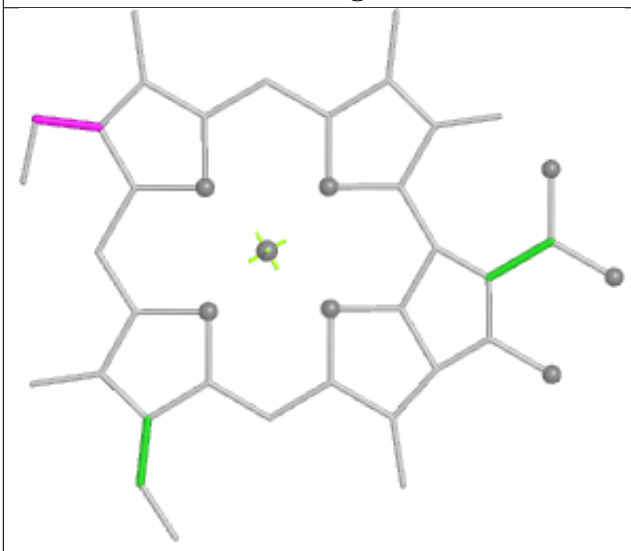
Ligand CLA 09 303



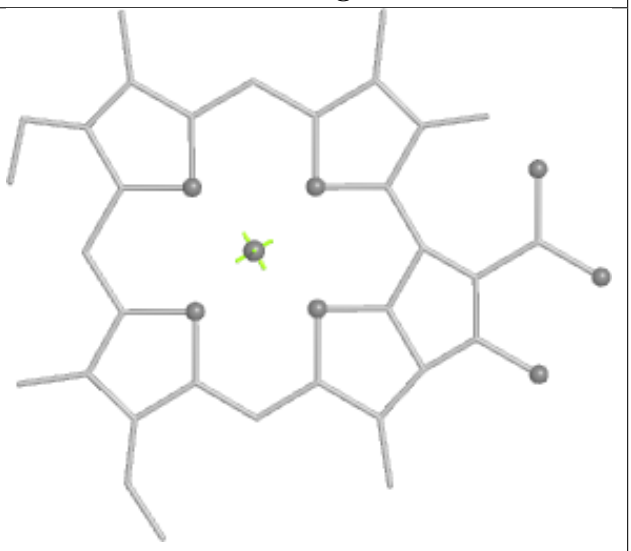
Bond lengths



Bond angles

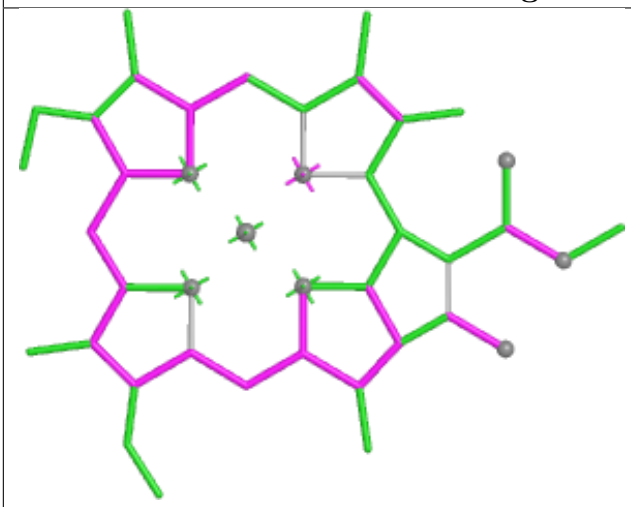


Torsions

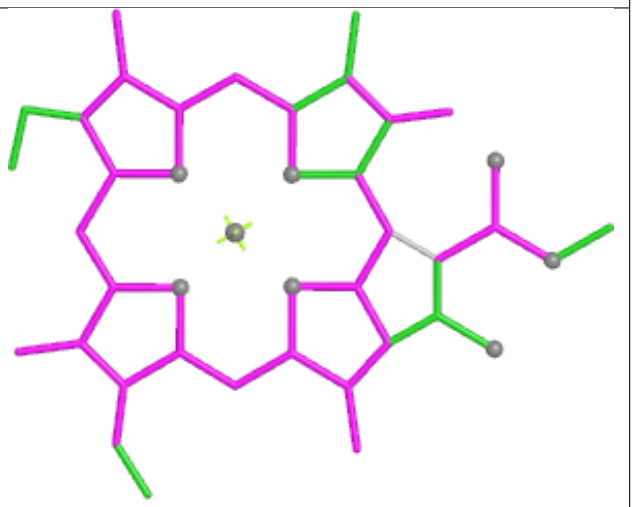


Rings

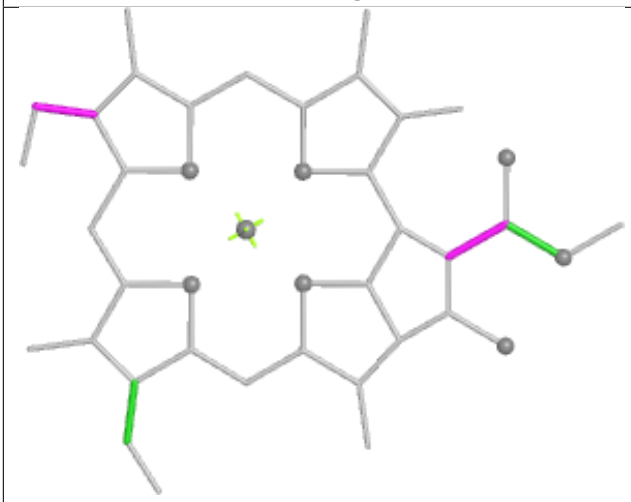
Ligand CLA 1s 307



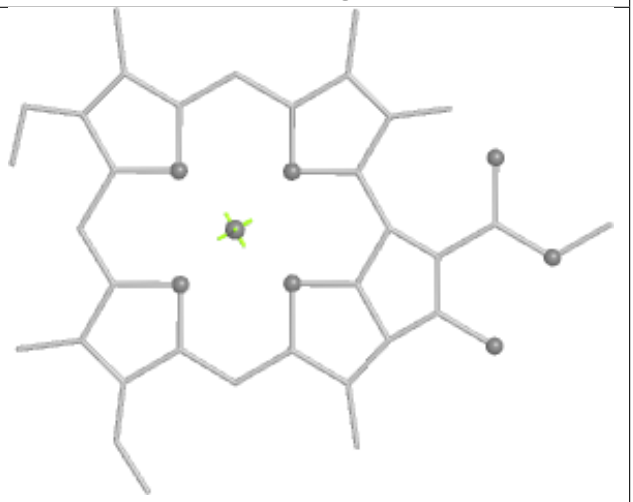
Bond lengths



Bond angles

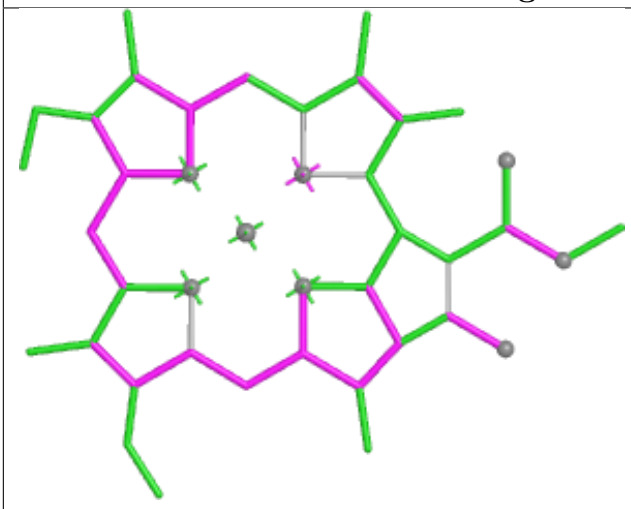


Torsions

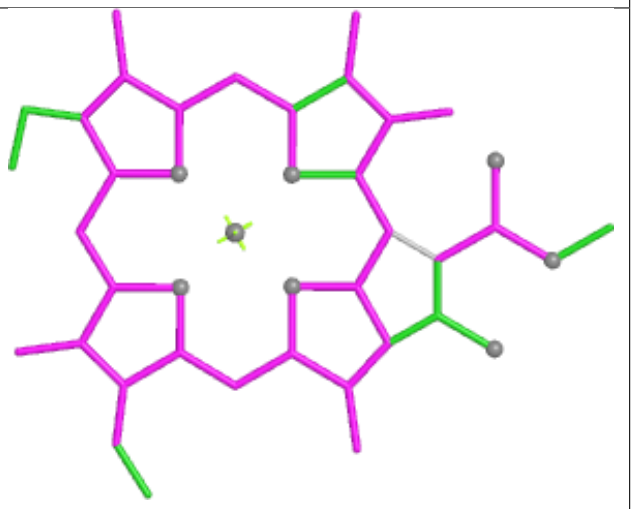


Rings

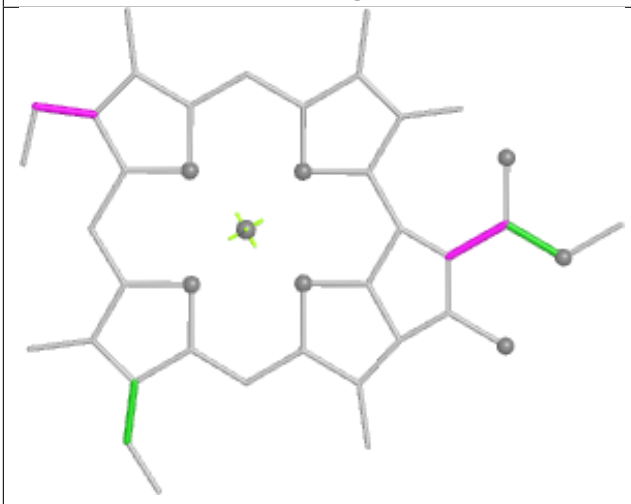
Ligand CLA 1n 604



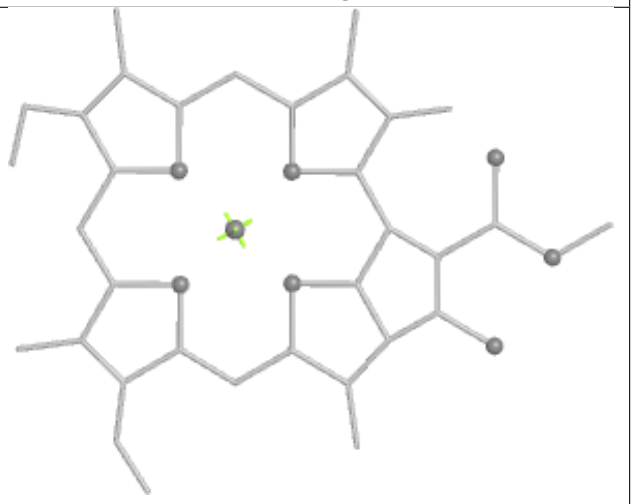
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

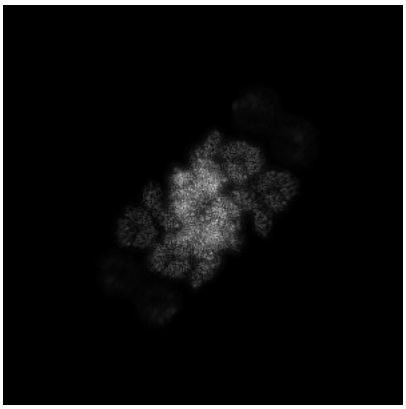
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-68060. These allow visual inspection of the internal detail of the map and identification of artifacts.

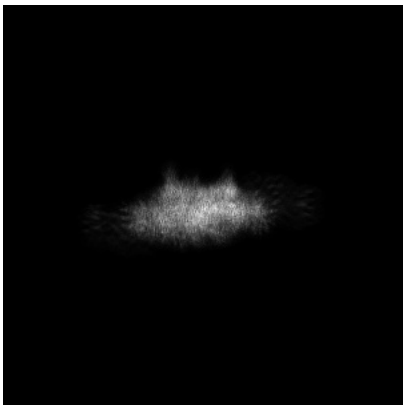
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

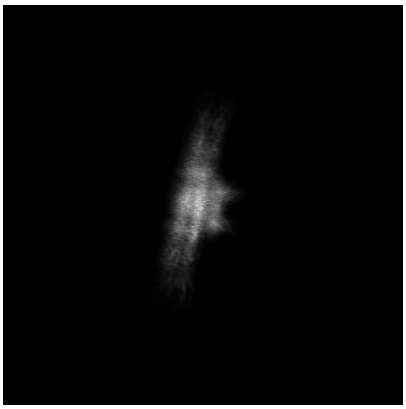
6.1.1 Primary map



X

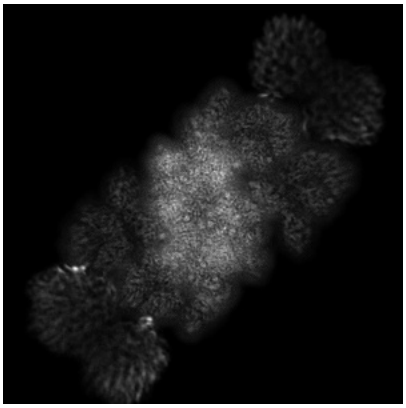


Y

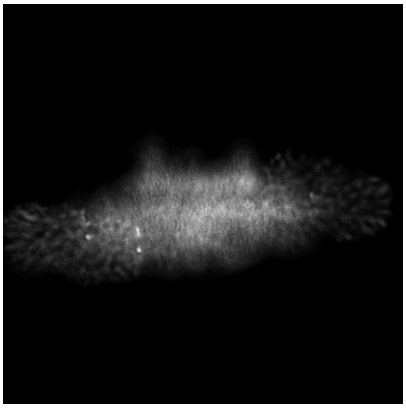


Z

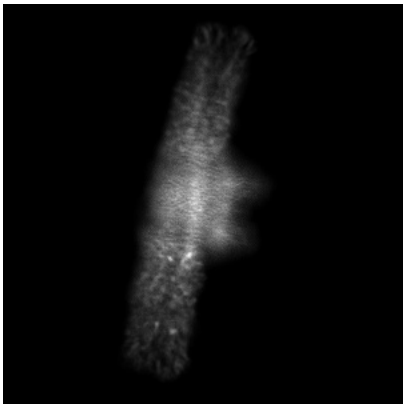
6.1.2 Raw map



X



Y

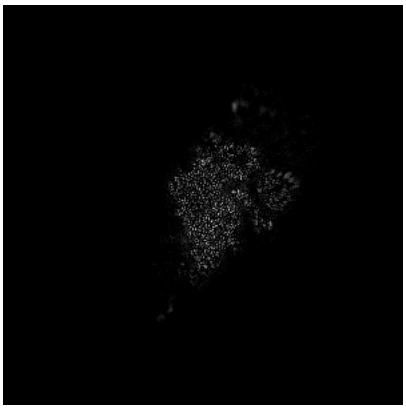


Z

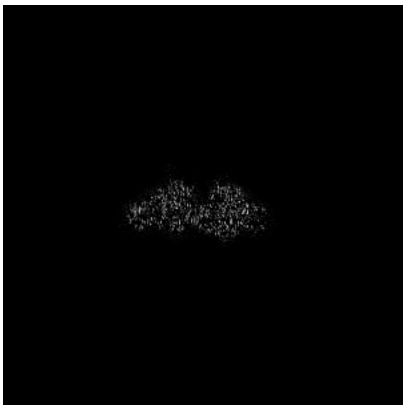
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

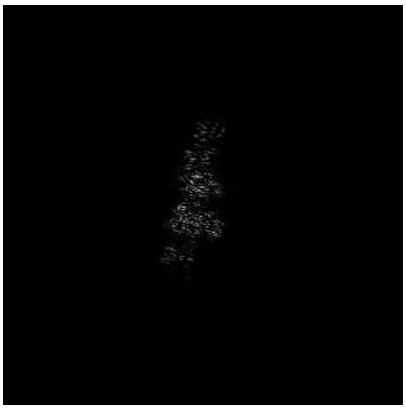
6.2.1 Primary map



X Index: 400

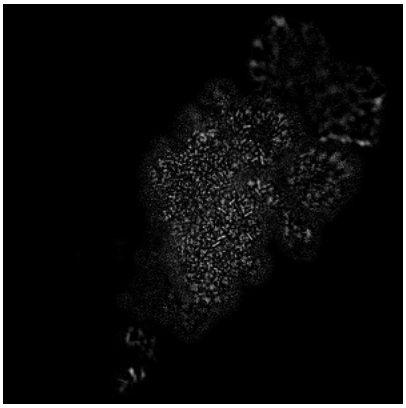


Y Index: 400

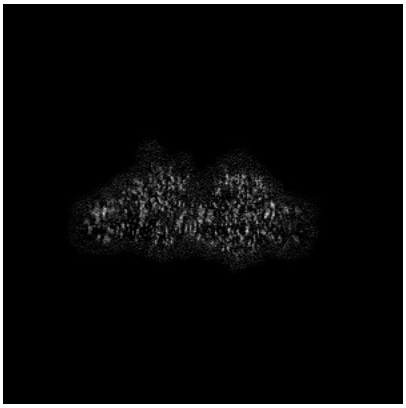


Z Index: 400

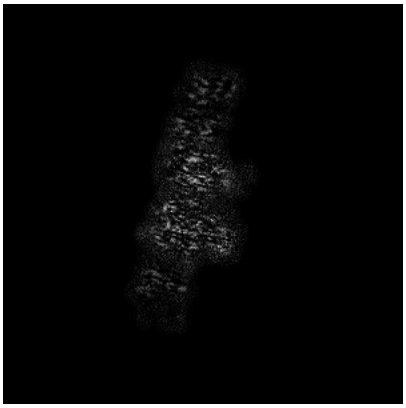
6.2.2 Raw map



X Index: 256



Y Index: 256

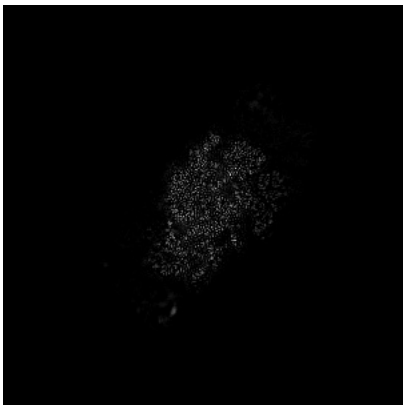


Z Index: 256

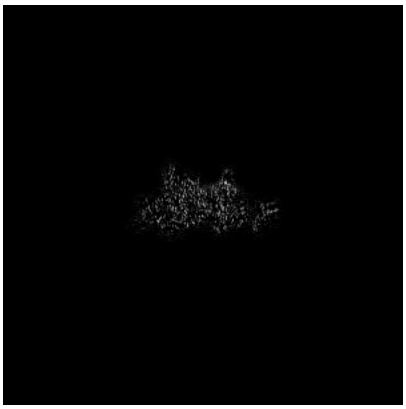
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

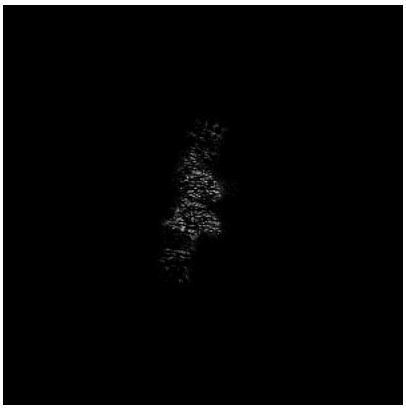
6.3.1 Primary map



X Index: 384

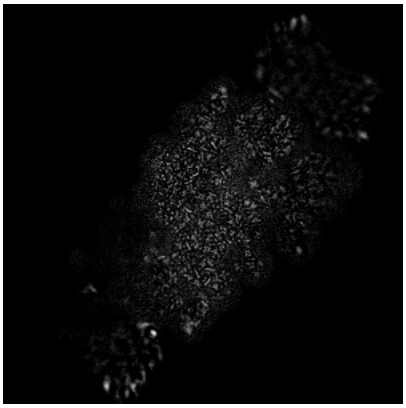


Y Index: 424

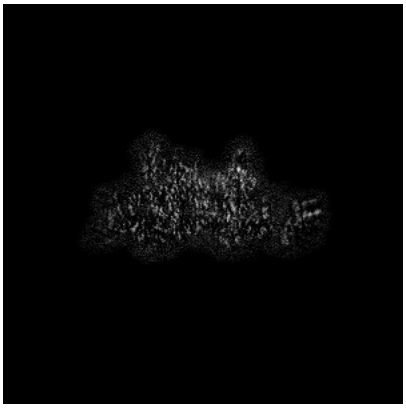


Z Index: 395

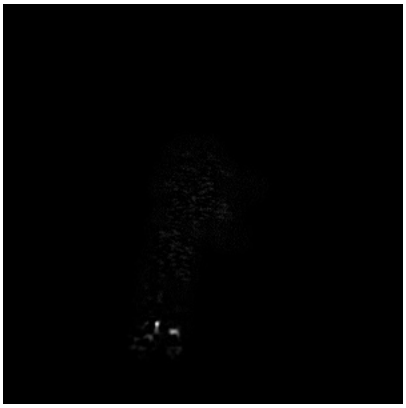
6.3.2 Raw map



X Index: 245



Y Index: 280

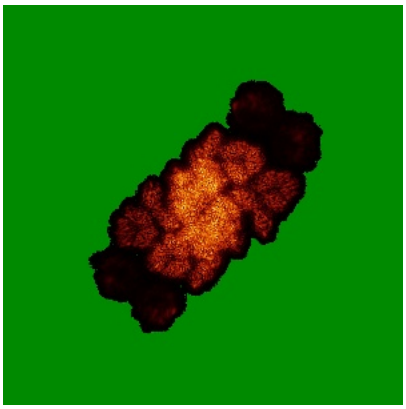


Z Index: 173

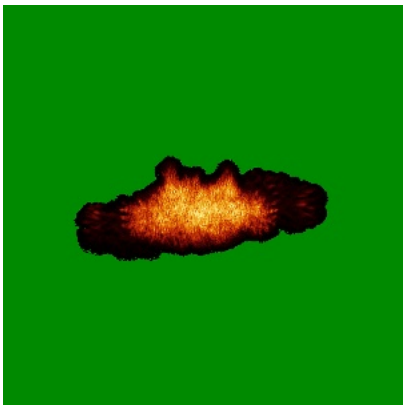
The images above show the largest variance slices of the map in three orthogonal directions.

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

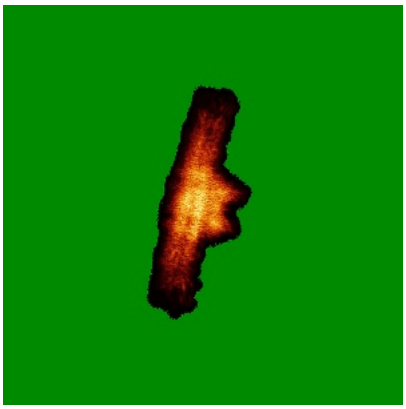
6.4.1 Primary map



X

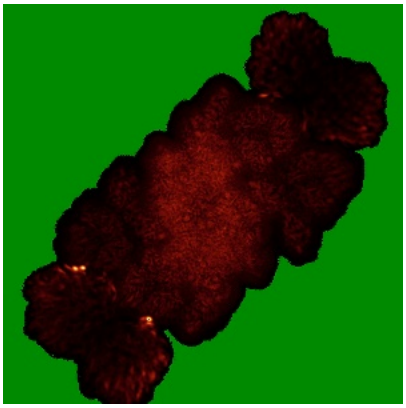


Y

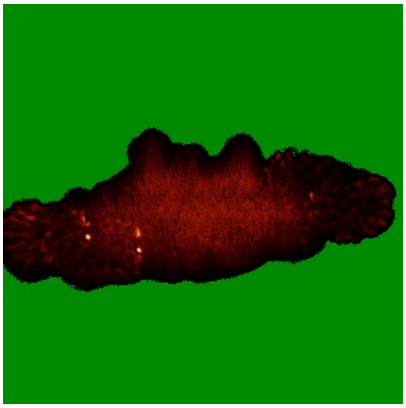


Z

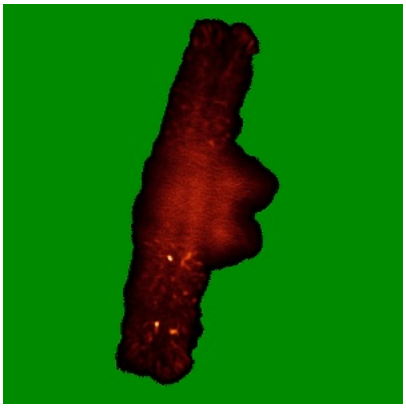
6.4.2 Raw map



X



Y

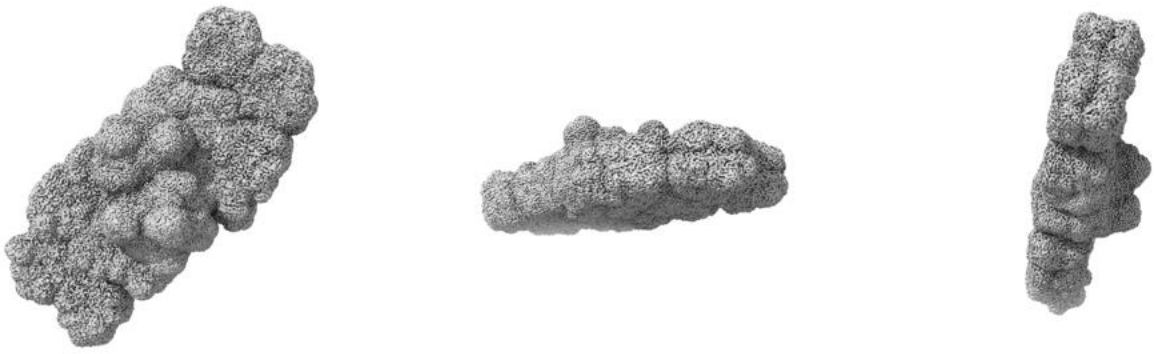


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0004. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

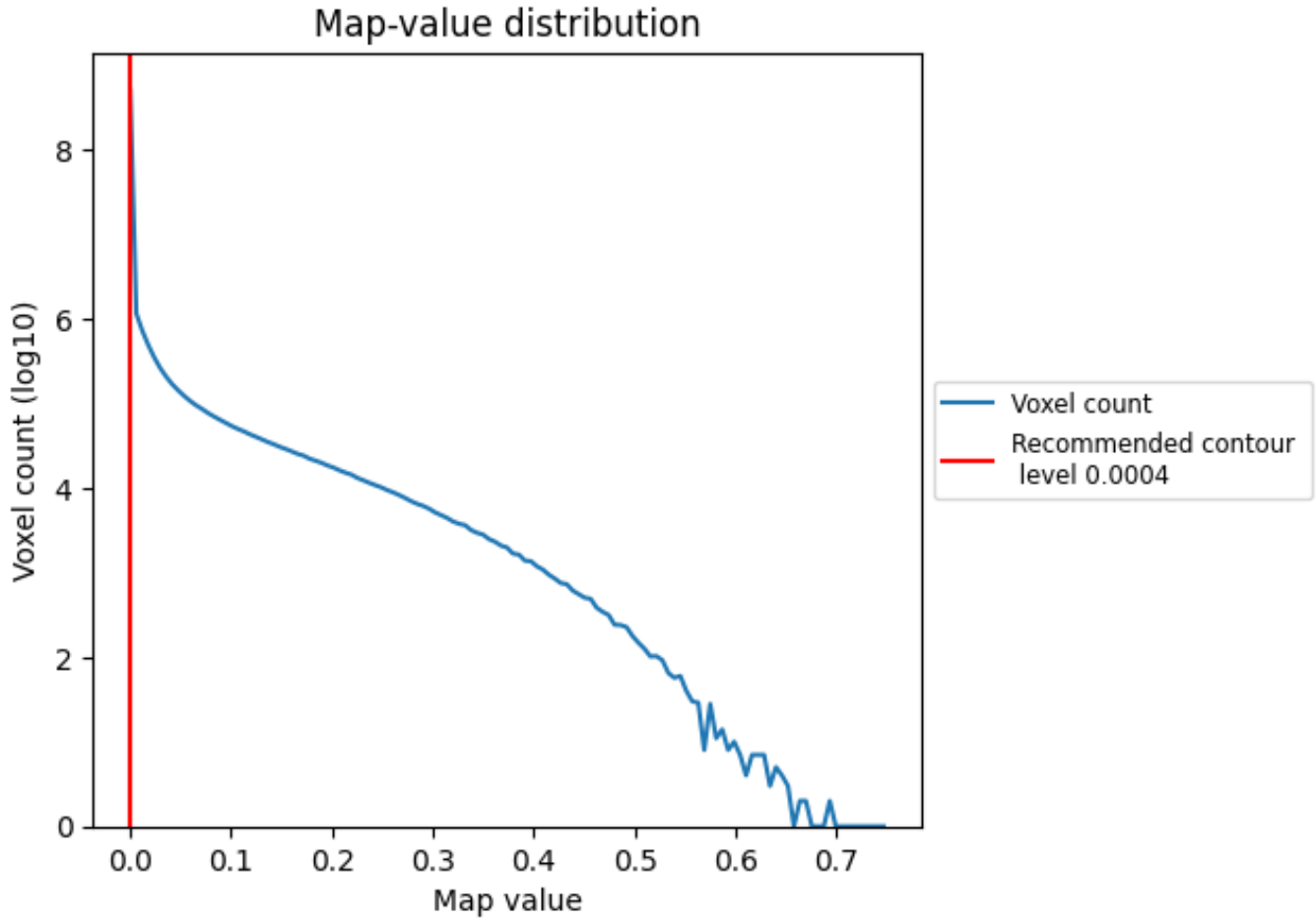
6.6 Mask visualisation (i)

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

7 Map analysis

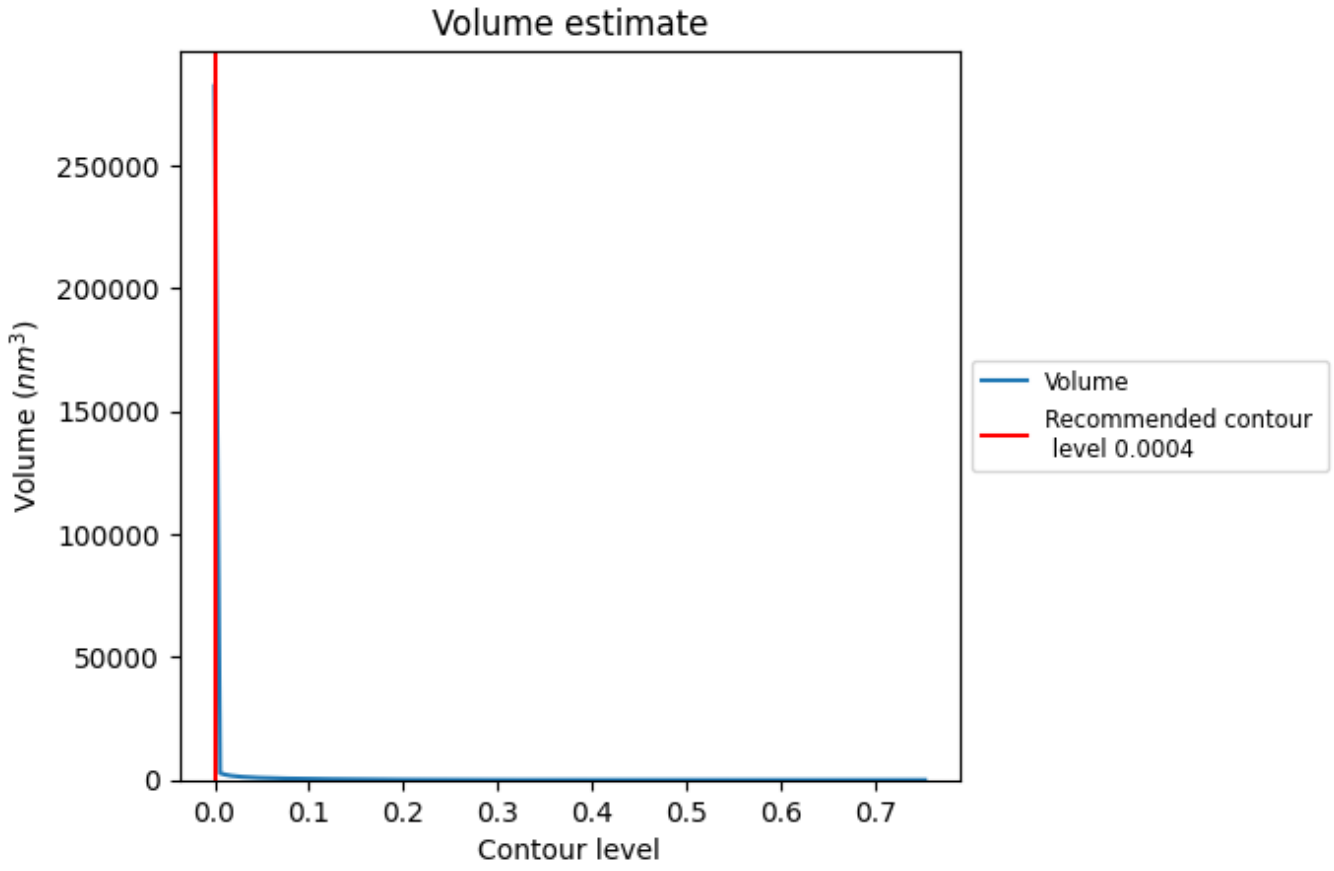
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

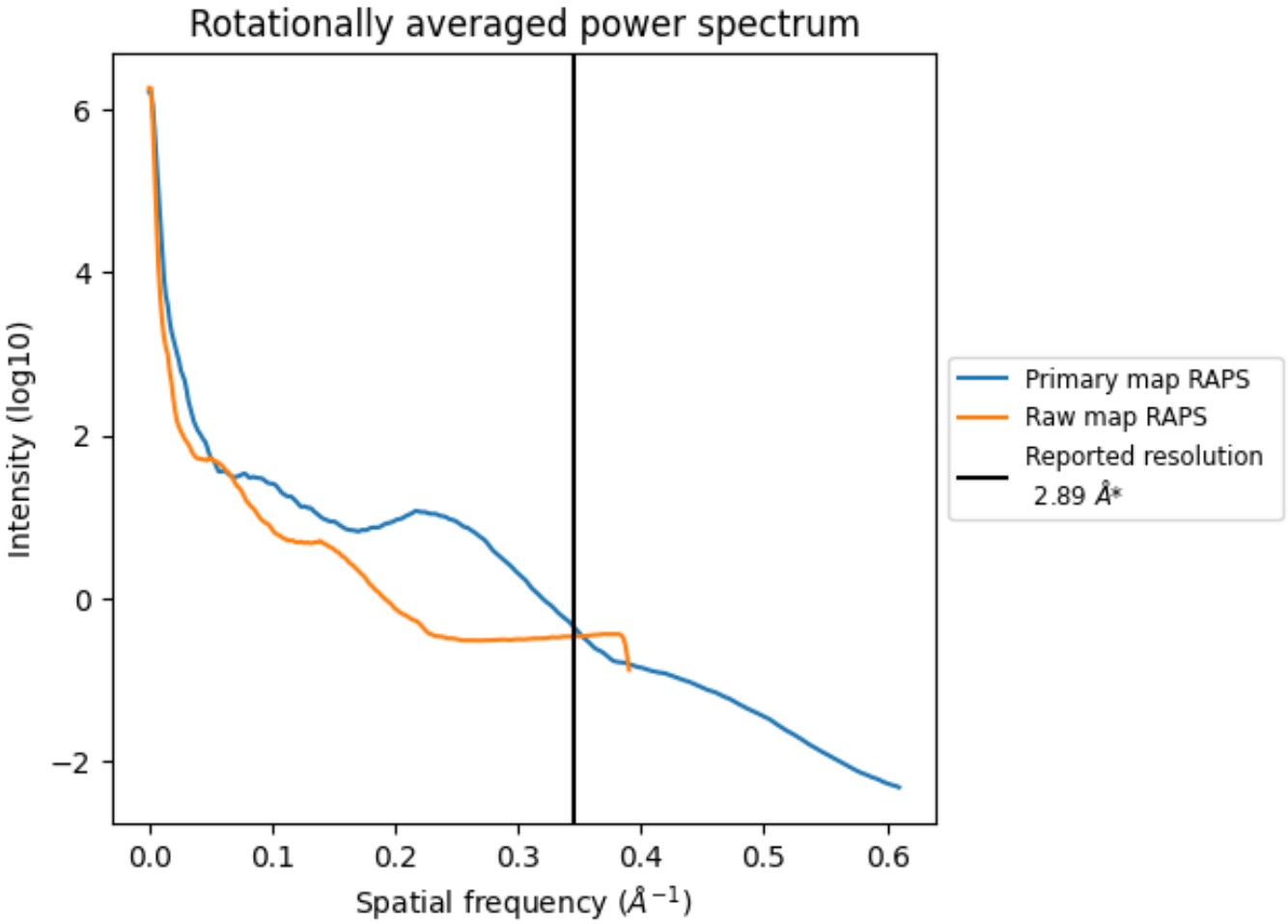
7.2 Volume estimate



The volume at the recommended contour level is 263293 nm^3; this corresponds to an approximate mass of 237839 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)

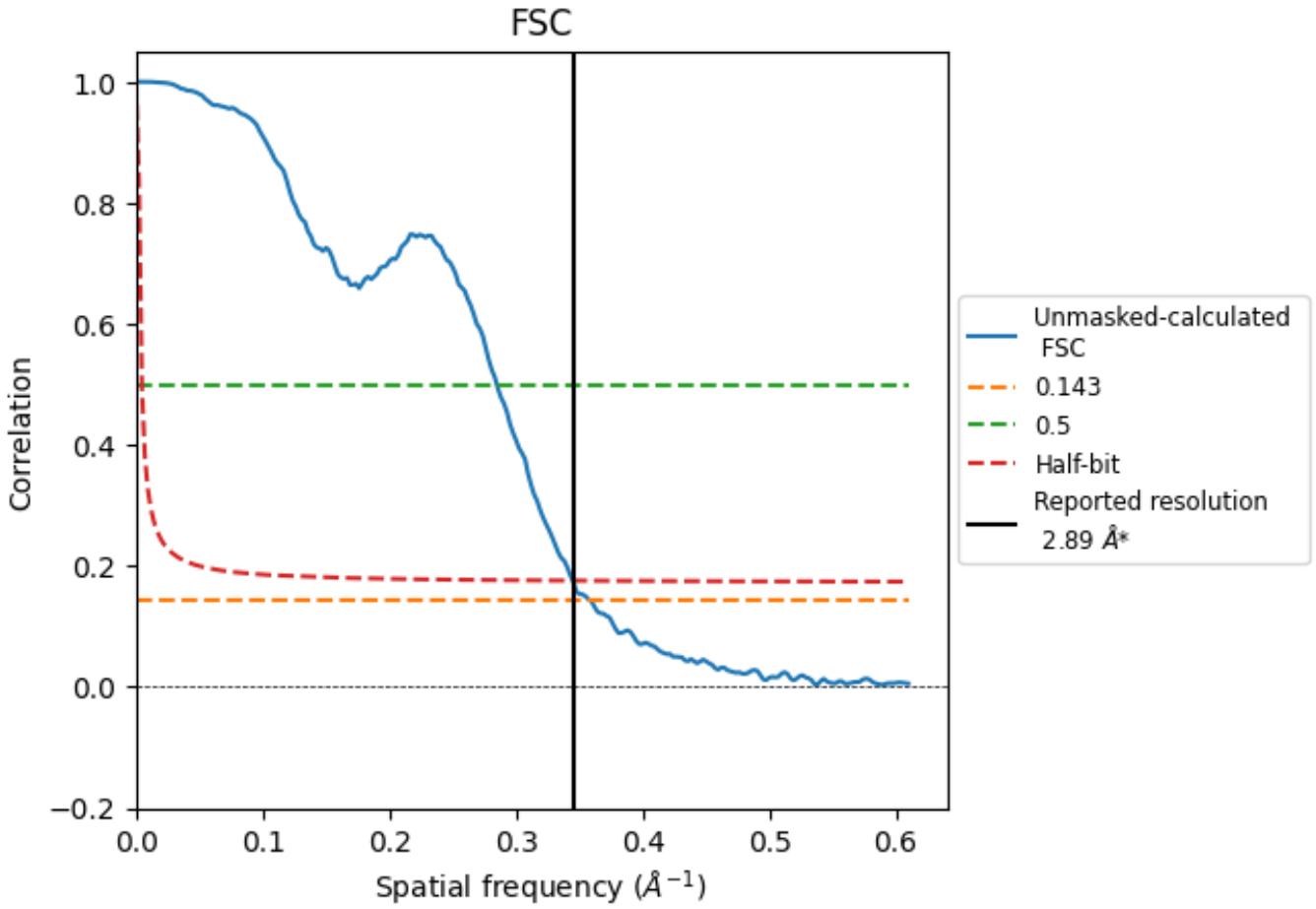


*Reported resolution corresponds to spatial frequency of 0.346 Å^{-1}

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 0.346 Å^{-1}

8.2 Resolution estimates (i)

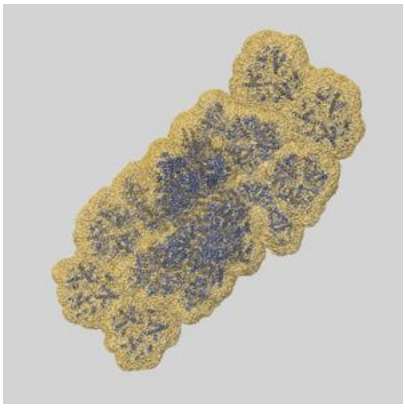
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.89	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.79	3.51	2.90

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

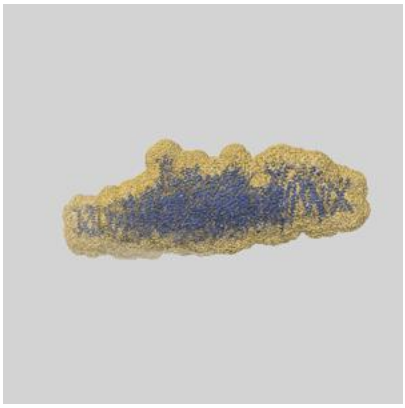
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-68060 and PDB model 21WV. Per-residue inclusion information can be found in section 3 on page 48.

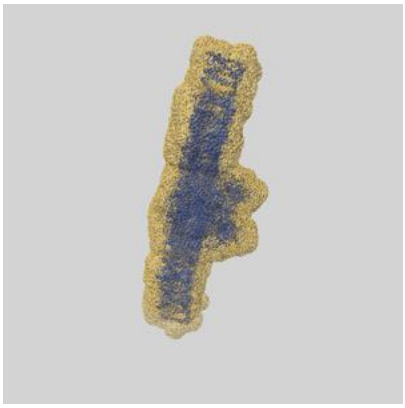
9.1 Map-model overlay



X



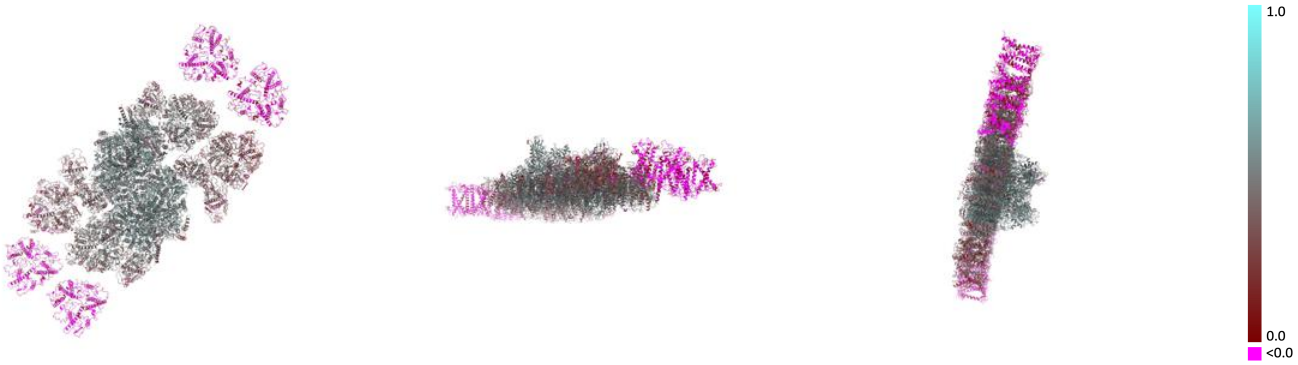
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0004 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.

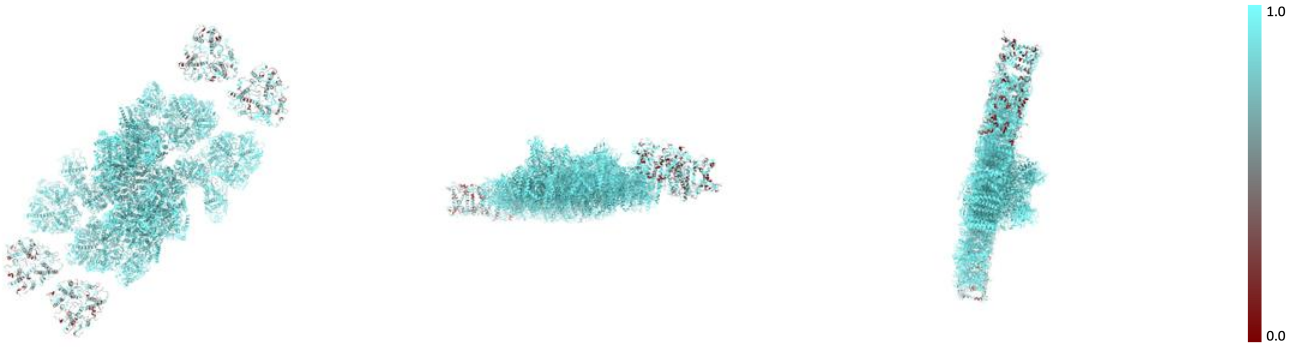
9.2 Q-score mapped to coordinate model



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.

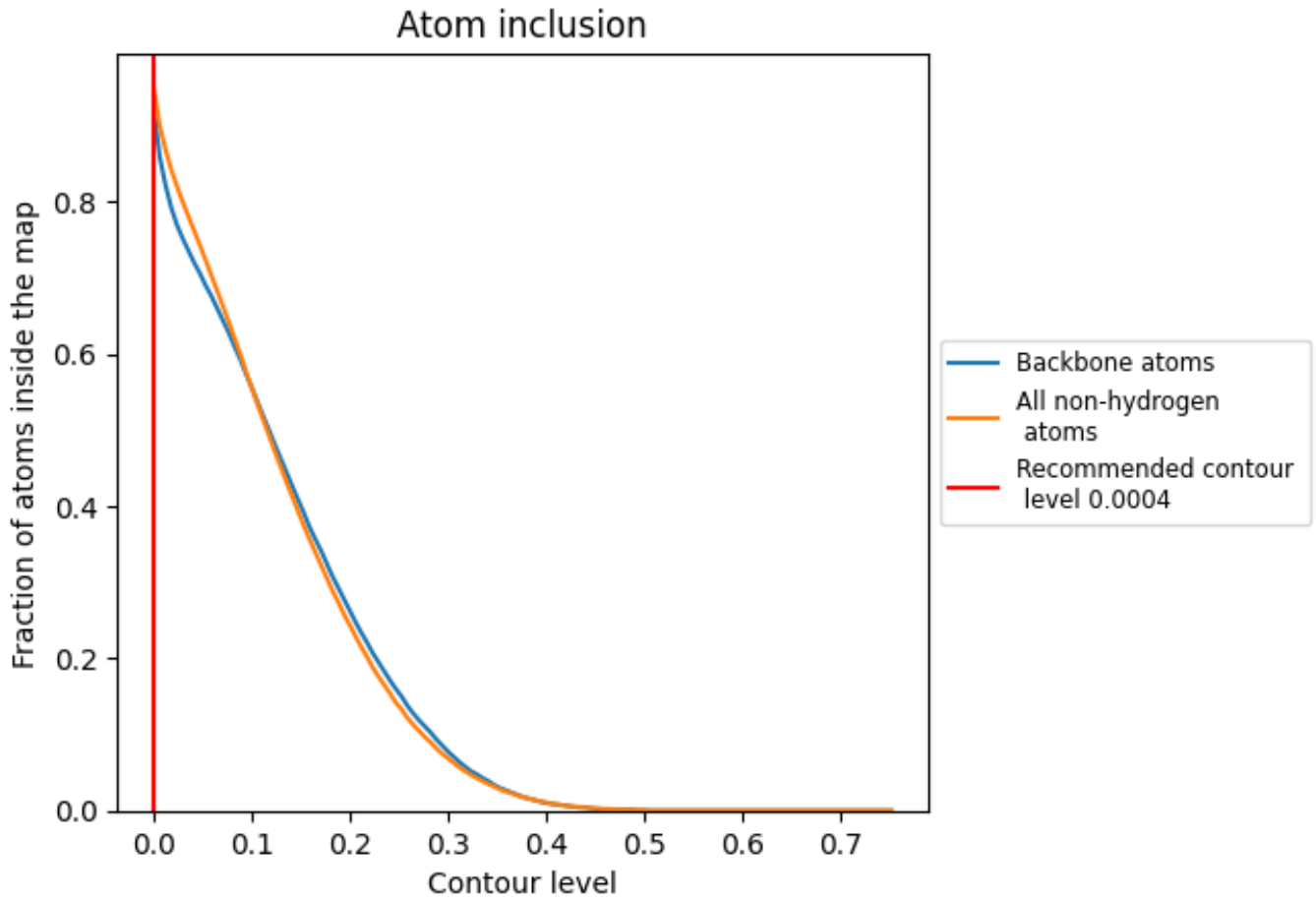
9.3 Atom inclusion mapped to coordinate model



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 (0.0004).

9.4 Atom inclusion (i)



At the recommended contour level, 92% of all backbone atoms, 95% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0004) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9470	0.3800
00	0.9970	0.4430
01	0.9800	0.3150
02	0.9720	0.2450
03	0.9810	0.3180
04	0.9650	0.2730
05	0.9740	0.3000
06	0.9610	0.2300
07	0.9630	0.2850
08	0.9710	0.2990
09	0.9950	0.4360
11	0.5760	-0.0760
12	0.5830	-0.0680
13	0.6250	-0.0570
14	0.6740	-0.0620
15	0.6350	-0.0590
16	0.6030	-0.0450
17	0.6470	-0.0370
18	0.6310	-0.0240
19	0.6320	-0.0630
1A	0.9980	0.5250
1B	1.0000	0.5300
1C	0.9990	0.5330
1D	0.9990	0.5480
1E	0.9990	0.5150
1F	1.0000	0.5250
1G	0.9900	0.3870
1H	0.9980	0.4890
1I	1.0000	0.5140
1J	0.9970	0.5010
1K	0.9970	0.5020
1L	1.0000	0.5260
1M	1.0000	0.5010
1N	0.9930	0.4150
1O	1.0000	0.4690



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Chain	Atom inclusion	Q-score
1P	1.0000	0.5030
1R	0.9930	0.3970
1S	0.9840	0.3590
1T	1.0000	0.5470
1U	1.0000	0.5070
1V	0.9890	0.3880
1W	0.9960	0.4520
1X	0.9940	0.4850
1Y	0.9920	0.4170
1Z	0.9950	0.3940
1a	1.0000	0.5350
1b	1.0000	0.5250
1c	1.0000	0.5340
1d	0.9990	0.5430
1e	1.0000	0.5310
1f	1.0000	0.5390
1g	0.9920	0.3950
1h	1.0000	0.5080
1i	1.0000	0.5150
1j	1.0000	0.4970
1k	0.9950	0.5150
1l	1.0000	0.5380
1m	1.0000	0.5010
1n	0.9920	0.4040
1o	0.9970	0.4850
1p	1.0000	0.4930
1r	0.9930	0.3660
1s	0.9800	0.3510
1t	1.0000	0.5370
1u	1.0000	0.4780
1v	0.9890	0.3480
1w	0.9940	0.4680
1x	1.0000	0.4910
1y	0.9920	0.4020
1z	0.9940	0.3900
20	0.6930	-0.0220
21	0.6490	-0.0440
22	0.7030	-0.0350