Full wwPDB X-ray Structure Validation Report (i)

Sep 4, 2023 – 12:23 PM JST

PDB ID	:	8GT7
Title	:	Structure of falcipain and human Stefin A mutant complex
Authors	:	Chakraborty, S.; Biswas, S.
Deposited on	:	2022-09-07
Resolution	:	3.28 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

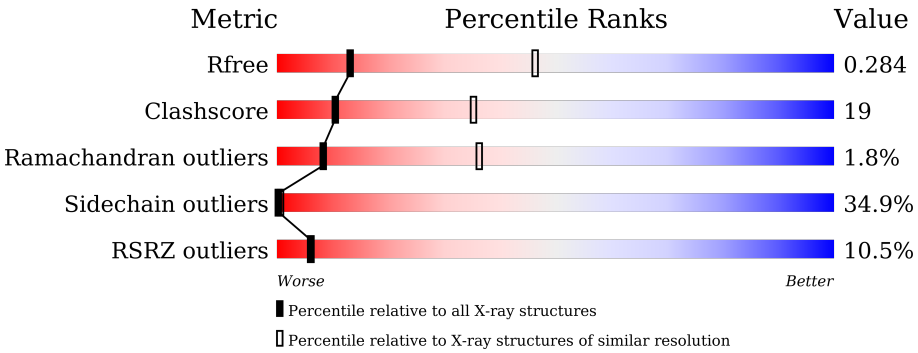
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.28 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1177 (3.32-3.24)
Clashscore	141614	1044 (3.30-3.26)
Ramachandran outliers	138981	1026 (3.30-3.26)
Sidechain outliers	138945	1025 (3.30-3.26)
RSRZ outliers	127900	1141 (3.32-3.24)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	241	7% 46% 44% 10%
1	C	241	11% 39% 46% 15%
2	B	98	19% 41% 50% 8%
2	D	98	9% 36% 42% 21%
3	E	9	56% 44%
4	F	9	22% 56% 22%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	EDO	B	143	-	-	-	X
5	GOL	C	305	-	-	-	X
6	NA	A	356	-	-	-	X
6	NA	B	114	-	-	-	X
6	NA	B	115	-	-	-	X
6	NA	B	141	-	-	-	X
6	NA	C	341	-	-	-	X
6	NA	D	114	-	-	-	X
7	PG4	A	326	-	-	-	X
9	PEG	B	129	-	-	-	X
9	PEG	D	104	-	-	-	X
9	PEG	D	105	-	-	-	X

2 Entry composition (i)

There are 12 unique types of molecules in this entry. The entry contains 7507 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Cysteine proteinase falcipain 2a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	241	Total	C	N	O	S	0	1	0
			1914	1213	315	372	14			
1	C	241	Total	C	N	O	S	0	0	0
			1909	1210	314	371	14			

- Molecule 2 is a protein called Cystatin-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	98	Total	C	N	O	S	0	0	0
			777	492	128	155	2			
2	D	98	Total	C	N	O	S	0	0	0
			777	492	128	155	2			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	68	ARG	LYS	engineered mutation	UNP P01040
D	68	ARG	LYS	engineered mutation	UNP P01040

- Molecule 3 is a protein called LYS-GLU-ILE-VAL-ASN-PRO-LEU-THR-LYS.

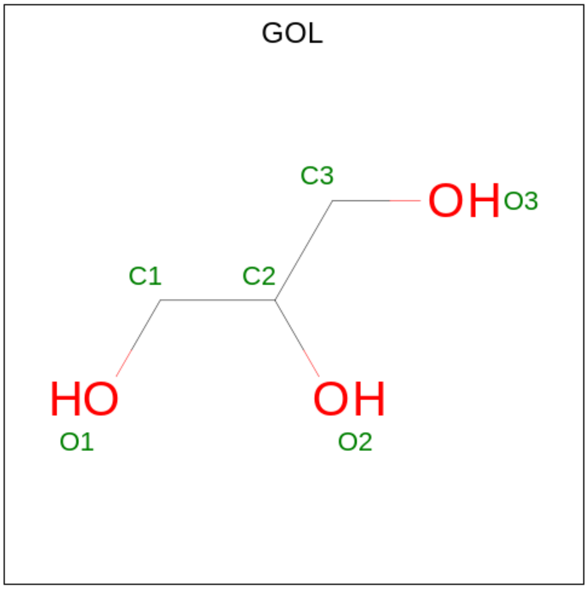
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	E	9	Total	C	N	O	0	0	0
			73	47	12	14			

- Molecule 4 is a protein called VAL-ASN-PRO-LEU-THR-LYS-LYS-GLY-GLU.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	F	9	Total	C	N	O	0	0	0
			69	43	12	14			

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$) (labeled as "Ligand

of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	A	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0
5	B	1	Total C O 6 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	C	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0

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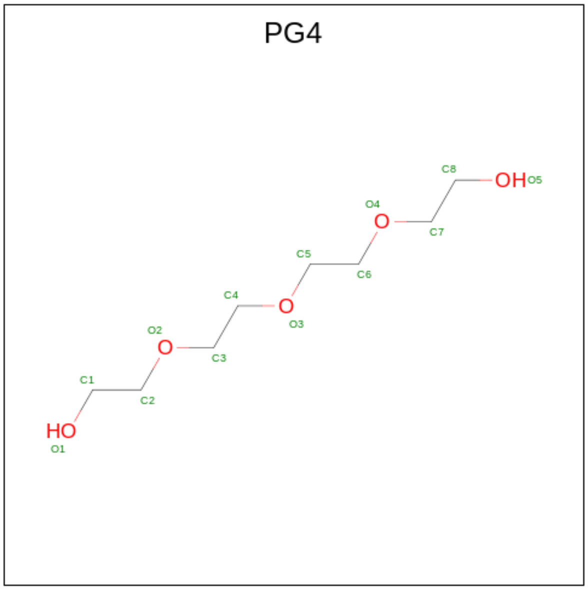
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	D	1	Total C O 6 3 3	0	0
5	E	1	Total C O 6 3 3	0	0
5	E	1	Total C O 6 3 3	0	0
5	E	1	Total C O 6 3 3	0	0
5	E	1	Total C O 6 3 3	0	0
5	F	1	Total C O 6 3 3	0	0

- Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	14	Total Na 14 14	0	0
6	B	11	Total Na 11 11	0	0
6	C	8	Total Na 8 8	0	0
6	D	8	Total Na 8 8	0	0
6	E	1	Total Na 1 1	0	0
6	F	2	Total Na 2 2	0	0

- Molecule 7 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: $C_8H_{18}O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0
7	A	1	Total C O 13 8 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	B	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0
7	C	1	Total C O 13 8 5	0	0

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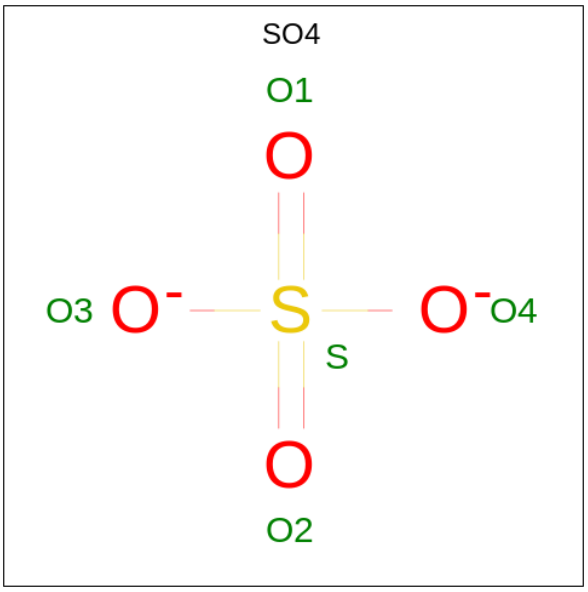
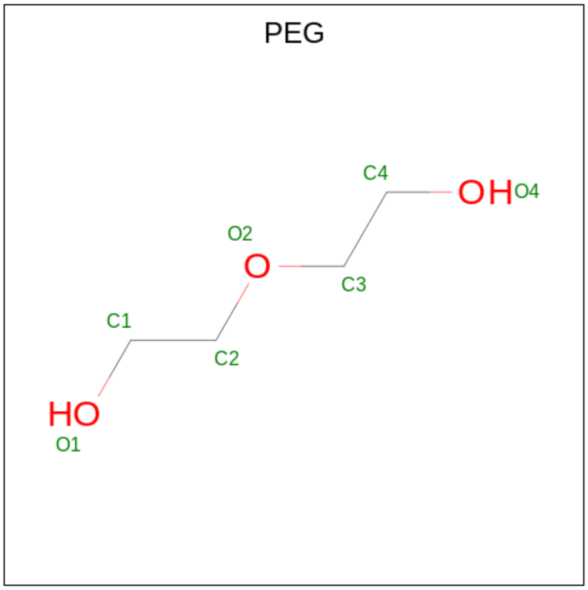
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	D	1	Total	C	O	0	0
			13	8	5		
7	D	1	Total	C	O	0	0
			13	8	5		
7	D	1	Total	C	O	0	0
			13	8	5		
7	D	1	Total	C	O	0	0
			13	8	5		
7	D	1	Total	C	O	0	0
			13	8	5		
7	D	1	Total	C	O	0	0
			13	8	5		
7	E	1	Total	C	O	0	0
			13	8	5		
7	E	1	Total	C	O	0	0
			13	8	5		
7	E	1	Total	C	O	0	0
			13	8	5		
7	E	1	Total	C	O	0	0
			13	8	5		
7	E	1	Total	C	O	0	0
			13	8	5		
7	F	1	Total	C	O	0	0
			13	8	5		
7	F	1	Total	C	O	0	0
			13	8	5		

- Molecule 8 is SULFATE ION (three-letter code: SO4) (formula: O_4S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total O S 5 4 1	0	0
8	A	1	Total O S 5 4 1	0	0
8	C	1	Total O S 5 4 1	0	0
8	C	1	Total O S 5 4 1	0	0
8	E	1	Total O S 5 4 1	0	0

- Molecule 9 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	A	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	B	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0

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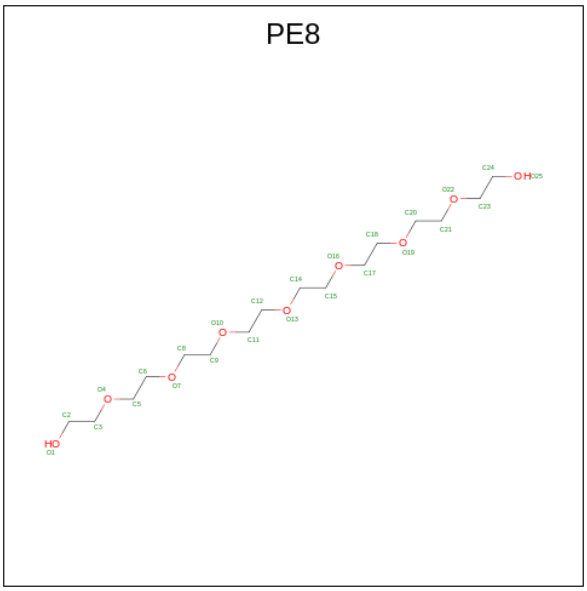
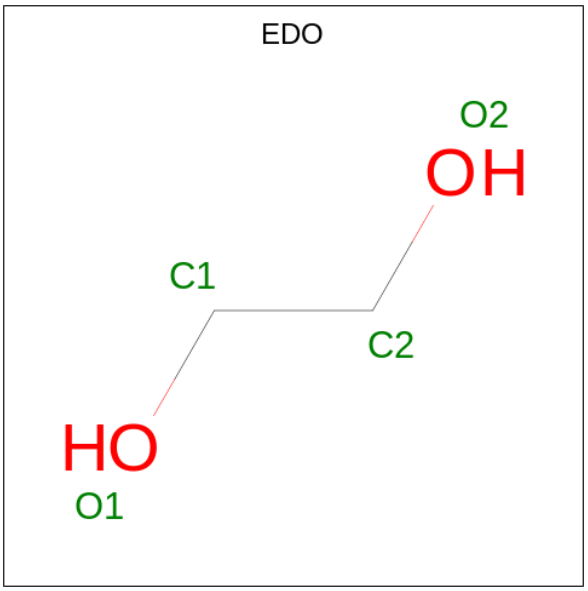
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	C	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0
9	D	1	Total C O 7 4 3	0	0

- Molecule 10 is 3,6,9,12,15,18,21-HEPTAOXATRICOSANE-1,23-DIOL (three-letter code: PE8) (formula: $C_{16}H_{34}O_{9}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	A	1	Total C O 25 16 9	0	0
10	A	1	Total C O 25 16 9	0	0
10	A	1	Total C O 25 16 9	0	0
10	B	1	Total C O 25 16 9	0	0
10	B	1	Total C O 25 16 9	0	0
10	B	1	Total C O 25 16 9	0	0
10	B	1	Total C O 25 16 9	0	0
10	C	1	Total C O 25 16 9	0	0
10	E	1	Total C O 25 16 9	0	0
10	E	1	Total C O 25 16 9	0	0
10	F	1	Total C O 25 16 9	0	0
10	F	1	Total C O 25 16 9	0	0

- Molecule 11 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	A	1	Total C O 4 2 2	0	0
11	B	1	Total C O 4 2 2	0	0
11	B	1	Total C O 4 2 2	0	0
11	D	1	Total C O 4 2 2	0	0
11	D	1	Total C O 4 2 2	0	0
11	D	1	Total C O 4 2 2	0	0
11	E	1	Total C O 4 2 2	0	0
11	E	1	Total C O 4 2 2	0	0

- Molecule 12 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
12	A	67	Total O 67 67	0	0
12	B	42	Total O 42 42	0	0
12	C	41	Total O 41 41	0	0
12	D	27	Total O 27 27	0	0

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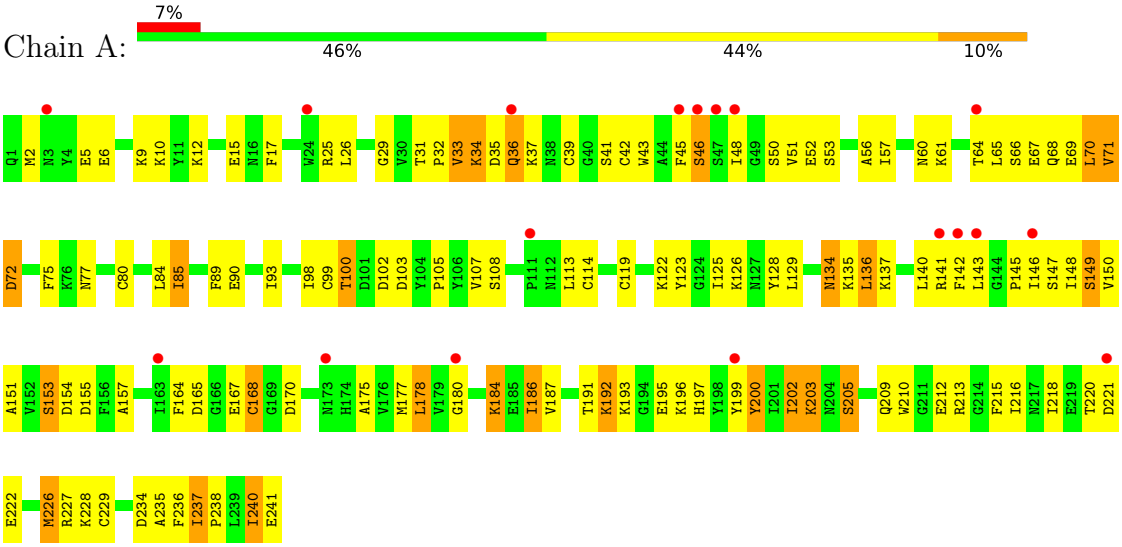
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
12	E	11	Total O 11 11	0	0
12	F	7	Total O 7 7	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron 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 dot above a residue indicates a poor fit to the electron density (RSRZ > 2). 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.

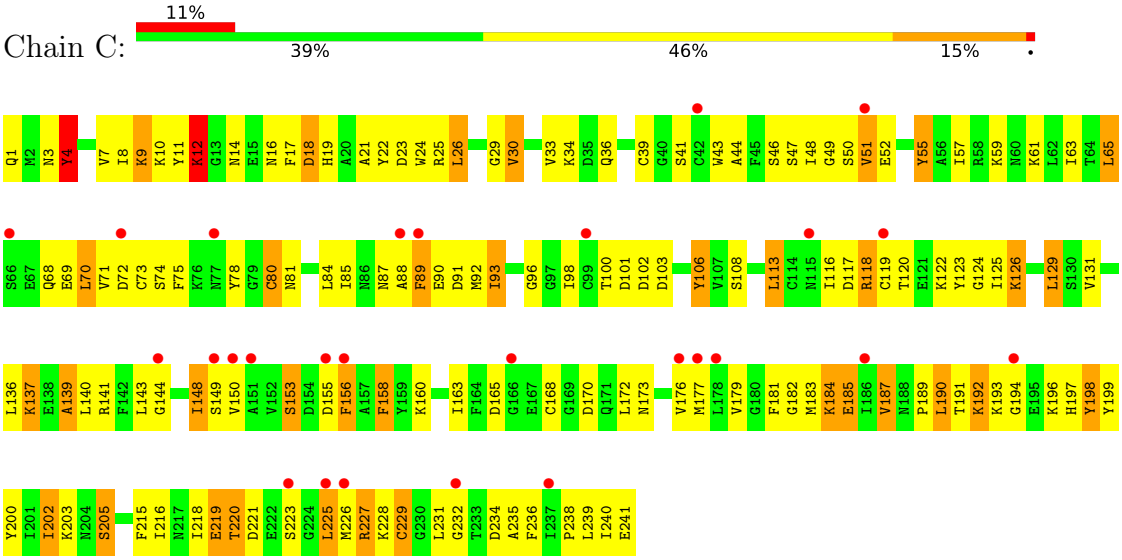
• Molecule 1: Cysteine proteinase falcipain 2a

Chain A:



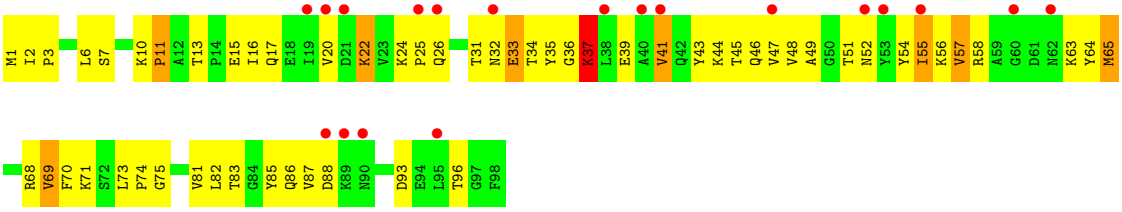
• Molecule 1: Cysteine proteinase falcipain 2a

Chain C:

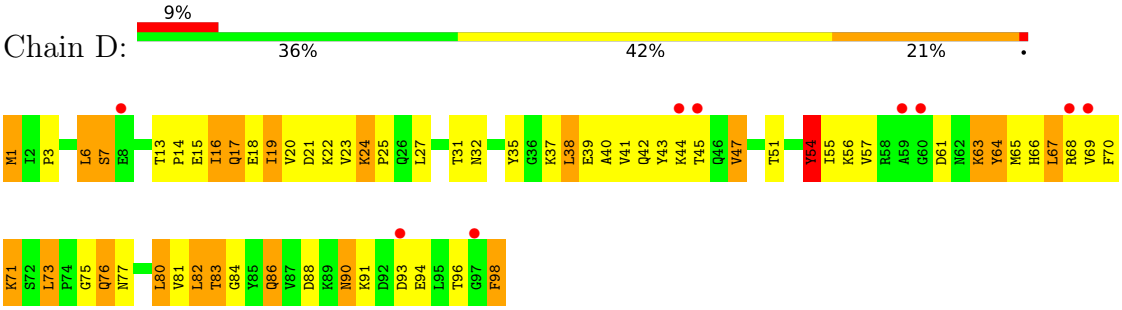


• Molecule 2: Cystatin-A

Chain B:

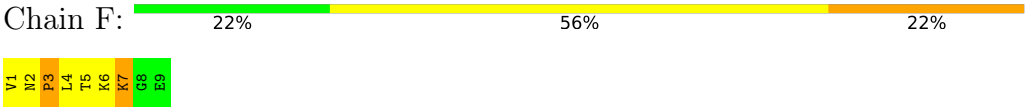


• Molecule 2: Cystatin-A



• Molecule 3: LYS-GLU-ILE-VAL-ASN-PRO-LEU-THR-LYS

• Molecule 4: VAL-ASN-PRO-LEU-THR-LYS-LYS-GLY-GLU



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	118.46Å 119.62Å 65.02Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.09 – 3.28 44.02 – 3.28	Depositor EDS
% Data completeness (in resolution range)	99.4 (42.09-3.28) 99.7 (44.02-3.28)	Depositor EDS
R_{merge}	0.31	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.39 (at 3.25Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.272 , 0.300 0.275 , 0.284	Depositor DCC
R_{free} test set	715 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å^2)	90.7	Xtriage
Anisotropy	0.515	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 999.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.24$	Xtriage
Estimated twinning fraction	0.046 for k,h,-l	Xtriage
F_o,F_c correlation	0.83	EDS
Total number of atoms	7507	wwPDB-VP
Average B, all atoms (Å^2)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.87% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PEG, EDO, GOL, PE8, SO4, NA, PG4

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.34	0/1959	0.70	0/2641
1	C	0.37	0/1951	0.74	0/2630
2	B	0.44	0/790	0.77	0/1065
2	D	0.45	0/790	0.80	1/1065 (0.1%)
3	E	0.34	0/73	0.72	0/96
4	F	0.40	0/69	0.85	0/90
All	All	0.39	0/5632	0.74	1/7587 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	54	TYR	CA-CB-CG	5.47	123.80	113.40

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	16	ASN	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1914	0	1834	70	0
1	C	1909	0	1830	89	0
2	B	777	0	780	31	0
2	D	777	0	780	50	0
3	E	73	0	85	3	0
4	F	69	0	77	5	0
5	A	120	0	160	4	0
5	B	84	0	112	2	0
5	C	96	0	128	5	0
5	D	60	0	80	3	0
5	E	24	0	32	1	0
5	F	6	0	8	0	0
6	A	14	0	0	0	0
6	B	11	0	0	0	0
6	C	8	0	0	0	0
6	D	8	0	0	0	0
6	E	1	0	0	0	0
6	F	2	0	0	0	0
7	A	182	0	252	5	0
7	B	156	0	216	7	0
7	C	117	0	162	13	0
7	D	78	0	108	3	0
7	E	65	0	90	2	0
7	F	26	0	36	2	0
8	A	10	0	0	0	0
8	C	10	0	0	0	0
8	E	5	0	0	0	0
9	A	126	0	180	5	0
9	B	105	0	150	2	0
9	C	77	0	110	2	0
9	D	70	0	100	0	0
10	A	75	0	102	2	0
10	B	100	0	136	5	0
10	C	25	0	34	2	0
10	E	50	0	68	4	0
10	F	50	0	68	4	0
11	A	4	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	B	8	0	12	0	0
11	D	12	0	18	2	0
11	E	8	0	12	0	0
12	A	67	0	0	1	0
12	B	42	0	0	0	0
12	C	41	0	0	2	0
12	D	27	0	0	1	0
12	E	11	0	0	1	0
12	F	7	0	0	0	0
All	All	7507	0	7766	280	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 19.

All (280) 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:C:227:ARG:HD2	1:C:228:LYS:H	1.37	0.87
2:D:21:ASP:O	2:D:25:PRO:HD2	1.78	0.83
1:C:29:GLY:HA2	1:C:57:ILE:HD11	1.60	0.83
2:D:22:LYS:HD2	2:D:80:LEU:HD11	1.65	0.79
1:C:68:GLN:HA	1:C:71:VAL:HG12	1.66	0.78
1:A:125:ILE:HG22	1:A:240:ILE:HG22	1.63	0.77
1:C:36:GLN:HE21	1:C:205:SER:HB2	1.50	0.76
1:C:21:ALA:HB3	1:C:183:MET:HB2	1.67	0.75
1:C:129:LEU:HB2	1:C:236:PHE:HB3	1.69	0.73
1:C:69:GLU:HB2	1:C:98:ILE:HG23	1.71	0.72
1:C:190:LEU:HB2	1:C:194:GLY:HA2	1.71	0.72
2:D:38:LEU:HD12	2:D:57:VAL:HG11	1.72	0.72
3:E:5:ASN:HA	7:E:106:PG4:H72	1.70	0.72
1:C:9:LYS:HD2	1:C:10:LYS:HG2	1.73	0.71
2:D:24:LYS:HG3	2:D:25:PRO:HD2	1.74	0.70
7:C:320:PG4:H52	10:C:335:PE8:H142	1.72	0.70
2:D:20:VAL:O	2:D:23:VAL:HG22	1.93	0.69
2:B:87:VAL:HG22	2:B:88:ASP:H	1.58	0.67
1:C:84:LEU:O	1:C:88:ALA:HB2	1.95	0.67
2:D:65:MET:HG3	2:D:88:ASP:H	1.60	0.67
4:F:2:ASN:HA	4:F:5:THR:OG1	1.95	0.67
1:C:96:GLY:HA2	7:C:325:PG4:H62	1.75	0.67
1:C:125:ILE:HA	1:C:240:ILE:HG12	1.77	0.66
1:C:34:LYS:HB2	9:C:333:PEG:H31	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1:GLN:N	12:C:401:HOH:O	2.27	0.65
2:D:68:ARG:HB2	2:D:98:PHE:CD1	2.32	0.65
7:B:122:PG4:H82	7:B:155:PG4:H31	1.80	0.63
1:A:36:GLN:HB3	1:A:41:SER:O	1.99	0.62
1:A:240:ILE:HG13	1:A:241:GLU:N	2.15	0.62
2:D:15:GLU:O	2:D:18:GLU:HG2	2.01	0.61
1:A:191:THR:HG22	1:A:192:LYS:H	1.65	0.60
1:C:227:ARG:HD2	1:C:228:LYS:N	2.12	0.60
1:C:122:LYS:HB2	7:C:325:PG4:H32	1.83	0.60
1:C:55:TYR:O	1:C:59:LYS:O	2.20	0.60
2:D:19:ILE:HD11	7:D:103:PG4:H72	1.84	0.59
2:D:19:ILE:O	2:D:23:VAL:HG13	2.02	0.59
2:D:73:LEU:O	2:D:75:GLY:N	2.33	0.59
1:A:212:GLU:HB2	1:A:215:PHE:O	2.02	0.59
5:A:303:GOL:H2	9:A:331:PEG:H12	1.83	0.59
1:C:192:LYS:HG2	11:D:102:EDO:H21	1.83	0.59
1:A:35:ASP:HA	1:A:205:SER:O	2.03	0.58
1:C:93:ILE:HG23	1:C:125:ILE:HG13	1.85	0.58
2:D:64:TYR:O	2:D:88:ASP:HA	2.03	0.58
1:A:148:ILE:HA	1:A:235:ALA:HA	1.84	0.58
1:C:3:ASN:O	1:C:4:TYR:HB2	2.04	0.58
2:D:17:GLN:HG3	2:D:40:ALA:HB3	1.85	0.58
1:A:29:GLY:HA3	1:A:57:ILE:HG12	1.86	0.58
7:C:320:PG4:H41	10:C:335:PE8:H121	1.85	0.58
10:F:102:PE8:H91	7:F:105:PG4:H11	1.86	0.57
2:D:86:GLN:HB2	2:D:98:PHE:HD2	1.67	0.57
1:A:202:ILE:HG13	1:A:203:LYS:O	2.03	0.57
1:A:202:ILE:O	1:A:215:PHE:HA	2.04	0.57
2:B:17:GLN:HA	2:B:20:VAL:HG22	1.86	0.57
7:C:321:PG4:H11	7:C:322:PG4:H72	1.86	0.57
1:A:31:THR:HB	1:A:32:PRO:CD	2.34	0.57
2:D:86:GLN:HB2	2:D:98:PHE:CD2	2.40	0.57
2:B:10:LYS:HG2	2:B:43:TYR:CD2	2.40	0.56
2:B:48:VAL:HG12	2:B:49:ALA:H	1.70	0.56
4:F:5:THR:HG22	4:F:7:LYS:HG2	1.86	0.56
1:C:49:GLY:O	1:C:52:GLU:HG2	2.06	0.56
1:A:70:LEU:O	1:A:71:VAL:HB	2.04	0.56
1:A:43:TRP:CZ2	1:A:71:VAL:HA	2.40	0.56
1:C:55:TYR:HE2	1:C:123:TYR:HD2	1.53	0.56
2:D:23:VAL:HG21	2:D:55:ILE:HD11	1.87	0.55
2:D:19:ILE:HG23	2:D:80:LEU:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:42:GLN:HB2	2:D:56:LYS:HD3	1.88	0.55
2:B:41:VAL:HG13	2:B:56:LYS:HG3	1.89	0.55
1:C:72:ASP:OD1	1:C:73:CYS:N	2.40	0.55
1:C:72:ASP:HB2	1:C:113:LEU:O	2.07	0.55
2:D:15:GLU:HB3	7:D:103:PG4:H82	1.89	0.55
2:B:16:ILE:O	2:B:20:VAL:HG13	2.07	0.54
1:C:89:PHE:CD1	1:C:89:PHE:N	2.75	0.54
1:C:182:GLY:HA3	1:C:199:TYR:CE2	2.43	0.54
2:D:68:ARG:HB2	2:D:98:PHE:HD1	1.72	0.54
1:C:8:ILE:HG13	1:C:9:LYS:HG3	1.90	0.53
1:A:90:GLU:HB3	9:A:329:PEG:H11	1.91	0.53
2:D:21:ASP:O	2:D:24:LYS:HG3	2.07	0.53
1:C:55:TYR:CE2	1:C:123:TYR:HD2	2.27	0.53
2:D:16:ILE:HA	2:D:19:ILE:HG13	1.89	0.53
1:A:65:LEU:HD21	1:A:123:TYR:HD2	1.73	0.53
1:C:50:SER:HB3	1:C:238:PRO:HG2	1.91	0.52
1:A:53:SER:O	1:A:57:ILE:HG13	2.09	0.52
1:A:72:ASP:HB2	1:A:114:CYS:HB2	1.92	0.52
1:C:36:GLN:NE2	1:C:205:SER:HB2	2.20	0.52
2:D:19:ILE:HG22	2:D:69:VAL:HG11	1.92	0.52
1:A:150:VAL:HG22	1:A:151:ALA:H	1.75	0.52
1:A:128:TYR:HB2	1:A:238:PRO:HA	1.90	0.52
2:D:17:GLN:O	2:D:20:VAL:HB	2.09	0.52
1:A:140:LEU:HD13	1:A:180:GLY:HA2	1.92	0.52
2:B:36:GLY:O	2:B:37:LYS:HB2	2.10	0.51
2:B:10:LYS:HD3	7:B:118:PG4:H61	1.92	0.51
1:C:124:GLY:O	1:C:240:ILE:HG12	2.10	0.51
2:D:84:GLY:HA3	2:D:98:PHE:HB2	1.93	0.51
1:C:219:GLU:O	1:C:227:ARG:HG2	2.11	0.51
10:A:342:PE8:H231	5:A:363:GOL:H11	1.92	0.50
1:C:43:TRP:O	1:C:47:SER:OG	2.25	0.50
1:A:186:ILE:HG22	1:A:195:GLU:O	2.12	0.50
1:C:43:TRP:HZ3	1:C:70:LEU:HD23	1.77	0.50
1:A:237:ILE:HG12	1:A:238:PRO:CD	2.42	0.50
2:D:16:ILE:HD13	2:D:43:TYR:HB3	1.94	0.50
2:B:26:GLN:O	2:B:82:LEU:HD12	2.11	0.50
1:A:126:LYS:HD3	7:A:325:PG4:H71	1.93	0.50
1:C:68:GLN:HB2	1:C:106:TYR:HA	1.93	0.50
2:D:76:GLN:NE2	12:D:203:HOH:O	2.45	0.50
1:A:184:LYS:HB2	1:A:199:TYR:HE1	1.75	0.49
1:C:41:SER:OG	1:C:80:CYS:SG	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:6:LYS:HB2	10:F:102:PE8:H212	1.94	0.49
1:C:65:LEU:HD13	1:C:100:THR:HA	1.93	0.49
1:C:140:LEU:HD12	1:C:144:GLY:O	2.13	0.49
1:A:65:LEU:HD21	1:A:123:TYR:CD2	2.46	0.49
1:C:153:SER:C	1:C:155:ASP:H	2.16	0.49
7:C:302:PG4:H22	11:D:102:EDO:H12	1.94	0.49
2:D:77:ASN:H	5:D:106:GOL:H32	1.77	0.49
2:B:41:VAL:O	9:B:130:PEG:H12	2.12	0.49
1:C:14:ASN:O	1:C:14:ASN:ND2	2.45	0.49
1:A:137:LYS:HG2	1:A:200:TYR:CE1	2.47	0.49
2:D:63:LYS:O	2:D:64:TYR:HB2	2.13	0.49
1:C:136:LEU:HD13	1:C:232:GLY:HA2	1.95	0.48
2:B:25:PRO:HA	5:B:140:GOL:H11	1.94	0.48
1:A:90:GLU:HA	1:A:93:ILE:HG13	1.94	0.48
1:C:153:SER:HB2	1:C:168:CYS:HA	1.94	0.48
1:A:177:MET:O	1:A:202:ILE:HB	2.12	0.48
2:D:57:VAL:HG23	2:D:65:MET:HB3	1.94	0.48
2:D:65:MET:HG3	2:D:88:ASP:N	2.28	0.48
1:C:187:VAL:O	1:C:189:PRO:HD3	2.14	0.48
7:E:115:PG4:H22	7:E:115:PG4:H42	1.54	0.48
1:C:36:GLN:HB2	1:C:205:SER:O	2.14	0.48
1:C:136:LEU:HA	1:C:139:ALA:HA	1.95	0.48
7:C:322:PG4:H62	5:C:345:GOL:H11	1.95	0.47
5:E:103:GOL:H11	5:E:113:GOL:H11	1.95	0.47
2:B:54:TYR:C	2:B:55:ILE:HG13	2.34	0.47
1:C:193:LYS:HE2	5:C:309:GOL:H12	1.97	0.47
1:A:149:SER:HB3	1:A:234:ASP:HB3	1.96	0.47
1:A:34:LYS:HB2	1:A:34:LYS:HE2	1.53	0.47
1:A:135:LYS:O	1:A:136:LEU:HD23	2.14	0.47
7:A:323:PG4:H12	7:B:101:PG4:H32	1.96	0.47
1:C:220:THR:OG1	1:C:221:ASP:N	2.47	0.47
1:A:65:LEU:HD13	1:A:98:ILE:HB	1.97	0.47
1:A:84:LEU:HG	2:B:3:PRO:HD2	1.96	0.47
1:C:126:LYS:H	1:C:240:ILE:HA	1.80	0.47
2:D:16:ILE:HD12	2:D:55:ILE:HG22	1.95	0.47
1:C:73:CYS:HB2	1:C:75:PHE:CE2	2.50	0.47
1:C:184:LYS:HZ3	1:C:184:LYS:HG3	1.59	0.47
1:A:36:GLN:OE1	2:B:49:ALA:HB2	2.15	0.47
1:A:197:HIS:HB2	12:A:447:HOH:O	2.15	0.47
2:D:90:ASN:OD1	2:D:90:ASN:N	2.41	0.47
1:C:51:VAL:HG11	1:C:92:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C:322:PG4:H31	5:C:345:GOL:H32	1.97	0.46
1:A:202:ILE:HG12	1:A:216:ILE:O	2.15	0.46
1:C:89:PHE:O	1:C:92:MET:HG2	2.15	0.46
1:C:71:VAL:HG13	1:C:71:VAL:O	2.16	0.46
1:C:52:GLU:HB2	1:C:63:ILE:O	2.15	0.46
7:A:325:PG4:H41	7:A:325:PG4:H61	1.40	0.46
1:C:48:ILE:O	1:C:51:VAL:HG22	2.15	0.46
2:B:39:GLU:O	2:B:58:ARG:HG3	2.15	0.46
2:D:27:LEU:O	2:D:31:THR:OG1	2.20	0.46
2:D:63:LYS:HB2	2:D:63:LYS:HE3	1.46	0.46
2:D:83:THR:O	2:D:83:THR:HG23	2.15	0.46
2:B:22:LYS:C	2:B:25:PRO:HD2	2.36	0.46
1:A:31:THR:HG21	1:A:52:GLU:HB3	1.98	0.45
2:D:7:SER:O	2:D:44:LYS:HD3	2.15	0.45
1:A:51:VAL:HG11	1:A:65:LEU:HD12	1.99	0.45
1:A:137:LYS:HE2	1:A:200:TYR:CE1	2.51	0.45
1:A:39:CYS:C	1:A:41:SER:H	2.19	0.45
10:E:110:PE8:H62	10:E:110:PE8:H92	1.35	0.45
1:A:33:VAL:HA	1:A:45:PHE:CZ	2.52	0.45
1:A:35:ASP:HB3	1:A:37:LYS:HG3	1.98	0.45
2:D:55:ILE:HG13	2:D:67:LEU:HB2	1.98	0.45
1:A:48:ILE:O	1:A:52:GLU:HG3	2.16	0.45
1:C:148:ILE:HA	1:C:234:ASP:O	2.16	0.45
1:C:184:LYS:HB2	1:C:199:TYR:CD1	2.52	0.45
1:A:37:LYS:HE3	1:A:37:LYS:HB2	1.63	0.45
1:A:170:ASP:H	5:A:310:GOL:H11	1.81	0.45
10:F:106:PE8:H121	10:F:106:PE8:H151	1.67	0.45
1:A:31:THR:HB	1:A:32:PRO:HD2	1.99	0.45
3:E:2:GLU:HA	3:E:6:PRO:HG2	1.97	0.45
1:A:85:ILE:HD11	1:A:175:ALA:HB1	1.98	0.44
1:C:177:MET:O	1:C:202:ILE:HG23	2.17	0.44
2:B:10:LYS:HG2	2:B:43:TYR:CE2	2.52	0.44
2:B:58:ARG:HG2	2:B:64:TYR:CE2	2.53	0.44
1:C:7:VAL:CG2	1:C:12:LYS:HA	2.47	0.44
1:C:24:TRP:O	1:C:29:GLY:HA3	2.16	0.44
2:B:10:LYS:HG3	2:B:11:PRO:N	2.32	0.44
1:C:185:GLU:O	1:C:198:TYR:HD1	2.01	0.44
1:A:237:ILE:HG12	1:A:238:PRO:HD2	1.99	0.44
1:C:48:ILE:H	1:C:48:ILE:HG13	1.63	0.44
1:A:153:SER:HB3	1:A:168:CYS:C	2.37	0.44
1:A:221:ASP:OD1	1:A:226:MET:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:57:VAL:HG23	2:B:65:MET:SD	2.58	0.44
1:C:18:ASP:O	1:C:19:HIS:HB2	2.18	0.44
1:C:173:ASN:HB3	2:D:47:VAL:HG11	2.00	0.44
2:D:6:LEU:HD21	2:D:54:TYR:OH	2.18	0.44
1:A:209:GLN:HE21	1:A:210:TRP:HD1	1.64	0.44
2:B:82:LEU:HG	2:B:85:TYR:CE1	2.53	0.44
7:B:125:PG4:H31	7:B:125:PG4:H11	1.53	0.44
1:C:23:ASP:HB3	1:C:26:LEU:HD12	1.99	0.44
7:C:323:PG4:H31	7:C:323:PG4:H12	1.41	0.44
9:C:331:PEG:H31	9:C:331:PEG:H11	1.53	0.44
2:D:71:LYS:HE3	2:D:71:LYS:HB3	1.68	0.43
7:B:118:PG4:H11	7:B:118:PG4:H31	1.47	0.43
1:C:21:ALA:HB1	1:C:181:PHE:CD1	2.53	0.43
1:C:70:LEU:HG	1:C:74:SER:HB2	2.01	0.43
1:C:228:LYS:HD3	1:C:229:CYS:H	1.83	0.43
2:D:77:ASN:N	5:D:106:GOL:H32	2.32	0.43
7:C:324:PG4:H31	7:C:324:PG4:H52	1.58	0.43
1:A:26:LEU:HD23	1:C:73:CYS:SG	2.59	0.43
10:B:137:PE8:H51	10:B:138:PE8:H51	2.00	0.43
1:C:89:PHE:CD2	1:C:238:PRO:HG3	2.53	0.43
1:C:168:CYS:HB2	1:C:229:CYS:HA	2.00	0.43
1:A:84:LEU:HD11	2:B:2:ILE:HG22	2.01	0.43
1:C:96:GLY:O	7:C:325:PG4:H41	2.19	0.43
1:A:157:ALA:O	2:B:74:PRO:HG3	2.19	0.42
10:B:138:PE8:H121	10:B:138:PE8:H151	1.34	0.42
10:E:109:PE8:H211	10:E:109:PE8:H181	1.56	0.42
1:A:39:CYS:O	1:A:41:SER:N	2.47	0.42
7:D:119:PG4:H31	7:D:119:PG4:H11	1.23	0.42
1:C:7:VAL:HG21	1:C:12:LYS:HA	2.00	0.42
1:A:149:SER:HA	1:A:175:ALA:HA	2.01	0.42
1:A:43:TRP:HZ2	1:A:71:VAL:HA	1.81	0.42
1:C:189:PRO:HA	1:C:194:GLY:HA3	2.02	0.42
10:E:109:PE8:H82	10:E:109:PE8:H112	1.55	0.42
1:A:68:GLN:C	1:A:70:LEU:H	2.22	0.42
1:A:136:LEU:HD13	1:A:178:LEU:HD12	2.01	0.42
2:B:25:PRO:HG3	5:B:140:GOL:H31	2.02	0.42
10:B:136:PE8:H182	10:B:136:PE8:H212	1.61	0.42
4:F:7:LYS:HB3	4:F:7:LYS:HE3	1.74	0.42
1:C:137:LYS:HB3	1:C:137:LYS:HE3	1.85	0.42
1:C:225:LEU:HD12	1:C:226:MET:HG2	2.01	0.42
1:A:153:SER:O	1:A:154:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:LEU:HB2	2:B:74:PRO:HD2	2.00	0.42
2:D:14:PRO:HA	2:D:17:GLN:NE2	2.35	0.42
1:C:156:PHE:HA	12:C:403:HOH:O	2.20	0.41
4:F:2:ASN:N	4:F:3:PRO:HD3	2.35	0.41
1:A:64:THR:O	1:A:100:THR:HG22	2.20	0.41
7:C:302:PG4:H11	7:C:323:PG4:H32	2.02	0.41
1:A:56:ALA:O	1:A:60:ASN:HA	2.20	0.41
1:A:105:PRO:HB3	5:D:108:GOL:H31	2.02	0.41
9:A:331:PEG:H22	9:A:331:PEG:H42	1.37	0.41
2:D:19:ILE:CG2	2:D:69:VAL:HG11	2.51	0.41
9:A:336:PEG:H32	10:A:342:PE8:H232	2.02	0.41
2:B:33:GLU:HG3	7:B:117:PG4:H42	2.02	0.41
1:C:131:VAL:O	1:C:235:ALA:HB3	2.20	0.41
1:A:89:PHE:CE1	1:A:238:PRO:HG3	2.56	0.41
1:A:153:SER:HB2	1:A:155:ASP:H	1.86	0.41
2:B:68:ARG:O	2:B:83:THR:HB	2.20	0.41
2:B:73:LEU:O	2:B:75:GLY:N	2.48	0.41
10:B:136:PE8:H141	10:B:136:PE8:H111	1.50	0.41
2:D:64:TYR:CD2	2:D:91:LYS:HB3	2.56	0.41
10:E:110:PE8:H111	12:E:206:HOH:O	2.19	0.41
7:A:365:PG4:H62	7:A:365:PG4:H41	1.61	0.41
2:B:69:VAL:HG12	2:B:70:PHE:H	1.85	0.41
1:C:179:VAL:HG11	1:C:215:PHE:HE2	1.85	0.41
2:D:16:ILE:O	2:D:20:VAL:HG23	2.21	0.41
1:A:39:CYS:O	2:B:48:VAL:HG11	2.21	0.41
1:A:46:SER:O	1:A:50:SER:OG	2.29	0.41
1:A:140:LEU:HD23	1:A:178:LEU:HD13	2.02	0.41
10:B:136:PE8:H122	10:B:136:PE8:H92	1.38	0.41
1:C:225:LEU:HD21	10:F:106:PE8:H141	2.03	0.41
7:F:101:PG4:H52	7:F:101:PG4:H32	1.29	0.41
1:C:101:ASP:C	1:C:103:ASP:H	2.22	0.41
7:C:321:PG4:H31	5:C:344:GOL:H12	2.02	0.41
2:D:1:MET:HE3	2:D:1:MET:HB3	1.87	0.41
2:D:55:ILE:HG13	2:D:55:ILE:O	2.21	0.41
1:C:50:SER:HB3	1:C:238:PRO:CG	2.50	0.40
3:E:5:ASN:N	3:E:6:PRO:CD	2.84	0.40
7:A:366:PG4:H31	7:A:366:PG4:H51	1.92	0.40
2:B:37:LYS:HB3	2:B:37:LYS:HE3	1.42	0.40
1:C:118:ARG:O	5:C:338:GOL:H11	2.22	0.40
1:C:173:ASN:O	2:D:3:PRO:HA	2.20	0.40
1:A:145:PRO:HB2	1:A:177:MET:HE2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A:341:PEG:H41	9:A:341:PEG:H22	1.78	0.40
9:B:157:PEG:H22	9:B:157:PEG:H42	1.55	0.40
1:C:156:PHE:C	1:C:158:PHE:H	2.25	0.40
1:A:134[B]:ASN:HB3	5:A:347:GOL:H11	2.02	0.40
1:C:90:GLU:HA	1:C:93:ILE:HG13	2.03	0.40
1:C:193:LYS:HE2	1:C:193:LYS:HB2	1.67	0.40
7:B:122:PG4:H11	7:B:122:PG4:H31	1.90	0.40
1:C:44:ALA:O	1:C:48:ILE:HG13	2.21	0.40
1:C:150:VAL:HB	1:C:176:VAL:HG21	2.04	0.40
2:D:82:LEU:HB3	2:D:83:THR:H	1.58	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	240/241 (100%)	196 (82%)	42 (18%)	2 (1%)	19 52
1	C	239/241 (99%)	180 (75%)	55 (23%)	4 (2%)	9 37
2	B	96/98 (98%)	63 (66%)	31 (32%)	2 (2%)	7 33
2	D	96/98 (98%)	63 (66%)	30 (31%)	3 (3%)	4 24
3	E	7/9 (78%)	3 (43%)	4 (57%)	0	100 100
4	F	7/9 (78%)	4 (57%)	2 (29%)	1 (14%)	0 1
All	All	685/696 (98%)	509 (74%)	164 (24%)	12 (2%)	8 36

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	71	VAL
2	B	37	LYS

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Mol	Chain	Res	Type
1	C	4	TYR
1	C	139	ALA
2	D	64	TYR
2	D	82	LEU
2	D	83	THR
1	A	108	SER
1	C	30	VAL
2	B	11	PRO
1	C	12	LYS
4	F	3	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	208/207 (100%)	139 (67%)	69 (33%)	0 0
1	C	207/207 (100%)	133 (64%)	74 (36%)	0 0
2	B	85/85 (100%)	55 (65%)	30 (35%)	0 0
2	D	85/85 (100%)	51 (60%)	34 (40%)	0 0
3	E	9/9 (100%)	8 (89%)	1 (11%)	6 24
4	F	8/8 (100%)	5 (62%)	3 (38%)	0 0
All	All	602/601 (100%)	391 (65%)	211 (35%)	0 0

All (211) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	MET
1	A	5	GLU
1	A	6	GLU
1	A	9	LYS
1	A	10	LYS
1	A	12	LYS
1	A	15	GLU
1	A	17	PHE

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Mol	Chain	Res	Type
1	A	25	ARG
1	A	33	VAL
1	A	34	LYS
1	A	36	GLN
1	A	42	CYS
1	A	46	SER
1	A	61	LYS
1	A	66	SER
1	A	67	GLU
1	A	69	GLU
1	A	70	LEU
1	A	72	ASP
1	A	75	PHE
1	A	77	ASN
1	A	80	CYS
1	A	85	ILE
1	A	99	CYS
1	A	100	THR
1	A	102	ASP
1	A	103	ASP
1	A	107	VAL
1	A	113	LEU
1	A	119	CYS
1	A	122	LYS
1	A	129	LEU
1	A	134[A]	ASN
1	A	134[B]	ASN
1	A	136	LEU
1	A	141	ARG
1	A	142	PHE
1	A	143	LEU
1	A	146	ILE
1	A	147	SER
1	A	149	SER
1	A	153	SER
1	A	164	PHE
1	A	165	ASP
1	A	167	GLU
1	A	168	CYS
1	A	178	LEU
1	A	184	LYS
1	A	186	ILE

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Mol	Chain	Res	Type
1	A	187	VAL
1	A	192	LYS
1	A	193	LYS
1	A	196	LYS
1	A	200	TYR
1	A	202	ILE
1	A	203	LYS
1	A	205	SER
1	A	213	ARG
1	A	218	ILE
1	A	220	THR
1	A	222	GLU
1	A	226	MET
1	A	227	ARG
1	A	228	LYS
1	A	229	CYS
1	A	236	PHE
1	A	237	ILE
1	A	240	ILE
2	B	1	MET
2	B	6	LEU
2	B	7	SER
2	B	13	THR
2	B	15	GLU
2	B	22	LYS
2	B	24	LYS
2	B	31	THR
2	B	32	ASN
2	B	33	GLU
2	B	34	THR
2	B	35	TYR
2	B	37	LYS
2	B	41	VAL
2	B	44	LYS
2	B	45	THR
2	B	46	GLN
2	B	47	VAL
2	B	51	THR
2	B	52	ASN
2	B	55	ILE
2	B	57	VAL
2	B	63	LYS

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Mol	Chain	Res	Type
2	B	65	MET
2	B	69	VAL
2	B	71	LYS
2	B	81	VAL
2	B	86	GLN
2	B	93	ASP
2	B	96	THR
1	C	4	TYR
1	C	9	LYS
1	C	11	TYR
1	C	12	LYS
1	C	17	PHE
1	C	18	ASP
1	C	22	TYR
1	C	25	ARG
1	C	26	LEU
1	C	30	VAL
1	C	33	VAL
1	C	39	CYS
1	C	46	SER
1	C	51	VAL
1	C	55	TYR
1	C	61	LYS
1	C	65	LEU
1	C	70	LEU
1	C	78	TYR
1	C	80	CYS
1	C	81	ASN
1	C	85	ILE
1	C	87	ASN
1	C	89	PHE
1	C	91	ASP
1	C	93	ILE
1	C	102	ASP
1	C	106	TYR
1	C	108	SER
1	C	113	LEU
1	C	116	ILE
1	C	117	ASP
1	C	118	ARG
1	C	119	CYS
1	C	120	THR

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Mol	Chain	Res	Type
1	C	126	LYS
1	C	129	LEU
1	C	137	LYS
1	C	141	ARG
1	C	143	LEU
1	C	148	ILE
1	C	149	SER
1	C	153	SER
1	C	156	PHE
1	C	158	PHE
1	C	160	LYS
1	C	163	ILE
1	C	165	ASP
1	C	170	ASP
1	C	172	LEU
1	C	184	LYS
1	C	185	GLU
1	C	187	VAL
1	C	190	LEU
1	C	191	THR
1	C	192	LYS
1	C	196	LYS
1	C	197	HIS
1	C	198	TYR
1	C	200	TYR
1	C	202	ILE
1	C	203	LYS
1	C	205	SER
1	C	216	ILE
1	C	218	ILE
1	C	219	GLU
1	C	220	THR
1	C	223	SER
1	C	225	LEU
1	C	227	ARG
1	C	229	CYS
1	C	231	LEU
1	C	239	LEU
1	C	241	GLU
2	D	1	MET
2	D	6	LEU
2	D	7	SER

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Mol	Chain	Res	Type
2	D	13	THR
2	D	16	ILE
2	D	17	GLN
2	D	19	ILE
2	D	24	LYS
2	D	32	ASN
2	D	35	TYR
2	D	37	LYS
2	D	38	LEU
2	D	39	GLU
2	D	41	VAL
2	D	45	THR
2	D	47	VAL
2	D	51	THR
2	D	54	TYR
2	D	61	ASP
2	D	63	LYS
2	D	66	HIS
2	D	67	LEU
2	D	70	PHE
2	D	71	LYS
2	D	73	LEU
2	D	76	GLN
2	D	80	LEU
2	D	81	VAL
2	D	86	GLN
2	D	90	ASN
2	D	93	ASP
2	D	94	GLU
2	D	96	THR
2	D	98	PHE
3	E	7	LEU
4	F	1	VAL
4	F	4	LEU
4	F	7	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	ASN
1	A	77	ASN
1	A	174	HIS

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Mol	Chain	Res	Type
1	C	36	GLN
1	C	204	ASN
2	D	17	GLN
2	D	26	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 236 ligands modelled in this entry, 44 are monoatomic - leaving 192 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	$\#\|Z\| > 2$
5	GOL	C	347	-	5,5,5	0.94	0	5,5,5	1.07	0
9	PEG	A	339	-	6,6,6	0.10	0	5,5,5	0.08	0
5	GOL	B	107	-	5,5,5	0.96	0	5,5,5	1.07	0
7	PG4	D	120	-	12,12,12	0.11	0	11,11,11	0.66	0
7	PG4	A	325	-	12,12,12	0.16	0	11,11,11	0.54	0
9	PEG	B	131	-	6,6,6	0.12	0	5,5,5	0.05	0
9	PEG	A	340	-	6,6,6	0.12	0	5,5,5	0.08	0
11	EDO	B	144	-	3,3,3	0.50	0	2,2,2	0.37	0
11	EDO	A	351	-	3,3,3	0.46	0	2,2,2	0.36	0
5	GOL	A	313	-	5,5,5	0.97	0	5,5,5	1.06	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GOL	C	306	-	5,5,5	0.98	0	5,5,5	1.18	1 (20%)
9	PEG	C	339	-	6,6,6	0.09	0	5,5,5	0.11	0
9	PEG	A	330	-	6,6,6	0.11	0	5,5,5	0.07	0
5	GOL	A	312	-	5,5,5	1.01	0	5,5,5	0.95	0
9	PEG	D	127	-	6,6,6	0.10	0	5,5,5	0.10	0
10	PE8	A	342	-	24,24,24	0.49	0	23,23,23	0.24	0
7	PG4	D	118	-	12,12,12	0.12	0	11,11,11	0.73	0
5	GOL	A	305	-	5,5,5	0.96	0	5,5,5	1.05	0
9	PEG	B	132	-	6,6,6	0.10	0	5,5,5	0.10	0
9	PEG	C	333	-	6,6,6	0.09	0	5,5,5	0.14	0
5	GOL	A	362	-	5,5,5	0.94	0	5,5,5	1.10	0
9	PEG	D	123	-	6,6,6	0.10	0	5,5,5	0.07	0
9	PEG	A	336	-	6,6,6	0.10	0	5,5,5	0.12	0
9	PEG	D	105	-	6,6,6	0.10	0	5,5,5	0.10	0
7	PG4	F	105	-	12,12,12	0.15	0	11,11,11	0.58	0
9	PEG	A	332	-	6,6,6	0.10	0	5,5,5	0.07	0
11	EDO	E	111	-	3,3,3	0.46	0	2,2,2	0.42	0
5	GOL	D	131	-	5,5,5	0.95	0	5,5,5	1.17	1 (20%)
5	GOL	E	104	-	5,5,5	0.93	0	5,5,5	1.13	1 (20%)
5	GOL	D	111	-	5,5,5	0.96	0	5,5,5	1.08	0
5	GOL	C	314	-	5,5,5	0.89	0	5,5,5	1.08	0
5	GOL	F	103	-	5,5,5	0.95	0	5,5,5	1.12	0
7	PG4	D	119	-	12,12,12	0.13	0	11,11,11	0.69	0
9	PEG	A	329	-	6,6,6	0.11	0	5,5,5	0.09	0
11	EDO	D	101	-	3,3,3	0.41	0	2,2,2	0.40	0
9	PEG	A	337	-	6,6,6	0.10	0	5,5,5	0.09	0
9	PEG	A	333	-	6,6,6	0.10	0	5,5,5	0.10	0
9	PEG	B	156	-	6,6,6	0.09	0	5,5,5	0.13	0
7	PG4	A	321	-	12,12,12	0.11	0	11,11,11	0.66	0
7	PG4	B	120	-	12,12,12	0.12	0	11,11,11	0.77	0
7	PG4	B	101	-	12,12,12	0.10	0	11,11,11	0.67	0
9	PEG	B	133	-	6,6,6	0.11	0	5,5,5	0.08	0
7	PG4	B	123	-	12,12,12	0.10	0	11,11,11	0.73	0
9	PEG	B	127	-	6,6,6	0.10	0	5,5,5	0.06	0
9	PEG	A	341	-	6,6,6	0.11	0	5,5,5	0.05	0
5	GOL	A	373	-	5,5,5	0.89	0	5,5,5	0.98	0
5	GOL	D	113	-	5,5,5	1.00	0	5,5,5	1.00	0
9	PEG	C	334	-	6,6,6	0.16	0	5,5,5	0.19	0
7	PG4	E	105	-	12,12,12	0.13	0	11,11,11	0.62	0
11	EDO	D	102	2	3,3,3	0.34	0	2,2,2	0.61	0
9	PEG	A	371	-	6,6,6	0.10	0	5,5,5	0.08	0
7	PG4	C	302	-	12,12,12	0.13	0	11,11,11	0.53	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GOL	B	112	-	5,5,5	0.92	0	5,5,5	1.18	1 (20%)
7	PG4	E	106	-	12,12,12	0.10	0	11,11,11	0.70	0
7	PG4	B	117	-	12,12,12	0.13	0	11,11,11	0.62	0
5	GOL	C	344	-	5,5,5	0.97	0	5,5,5	1.06	0
7	PG4	F	101	-	12,12,12	0.13	0	11,11,11	0.59	0
5	GOL	D	109	-	5,5,5	0.97	0	5,5,5	1.08	0
5	GOL	B	106	-	5,5,5	0.98	0	5,5,5	1.13	0
8	SO4	E	108	-	4,4,4	0.14	0	6,6,6	0.05	0
5	GOL	C	305	-	5,5,5	1.03	0	5,5,5	0.95	0
9	PEG	C	328	-	6,6,6	0.11	0	5,5,5	0.06	0
5	GOL	B	153	-	5,5,5	0.97	0	5,5,5	1.07	0
9	PEG	B	157	-	6,6,6	0.15	0	5,5,5	0.24	0
5	GOL	A	303	-	5,5,5	0.95	0	5,5,5	1.07	0
10	PE8	E	109	-	24,24,24	0.48	0	23,23,23	0.27	0
10	PE8	E	110	-	24,24,24	0.48	0	23,23,23	0.31	0
7	PG4	A	366	-	12,12,12	0.11	0	11,11,11	0.73	0
5	GOL	D	110	-	5,5,5	0.99	0	5,5,5	1.13	0
9	PEG	B	158	-	6,6,6	0.10	0	5,5,5	0.10	0
5	GOL	B	104	-	5,5,5	0.94	0	5,5,5	1.11	1 (20%)
5	GOL	C	313	-	5,5,5	0.90	0	5,5,5	1.07	0
7	PG4	A	365	-	12,12,12	0.10	0	11,11,11	0.60	0
9	PEG	D	104	-	6,6,6	0.10	0	5,5,5	0.08	0
10	PE8	B	102	-	24,24,24	0.48	0	23,23,23	0.27	0
7	PG4	C	322	-	12,12,12	0.09	0	11,11,11	0.66	0
9	PEG	C	329	-	6,6,6	0.12	0	5,5,5	0.08	0
5	GOL	C	345	-	5,5,5	0.97	0	5,5,5	1.10	0
5	GOL	A	304	-	5,5,5	0.97	0	5,5,5	1.06	0
9	PEG	A	346	-	6,6,6	0.12	0	5,5,5	0.08	0
7	PG4	A	369	-	12,12,12	0.09	0	11,11,11	0.70	0
7	PG4	E	114	-	12,12,12	0.10	0	11,11,11	0.65	0
5	GOL	A	308	-	5,5,5	0.94	0	5,5,5	1.10	0
5	GOL	C	309	-	5,5,5	0.94	0	5,5,5	1.20	1 (20%)
5	GOL	C	312	-	5,5,5	0.90	0	5,5,5	1.14	1 (20%)
7	PG4	C	321	-	12,12,12	0.10	0	11,11,11	0.70	0
10	PE8	C	335	-	24,24,24	0.48	0	23,23,23	0.23	0
5	GOL	C	311	-	5,5,5	0.95	0	5,5,5	1.14	1 (20%)
7	PG4	B	118	-	12,12,12	0.14	0	11,11,11	0.71	0
5	GOL	A	307	-	5,5,5	0.99	0	5,5,5	1.17	0
5	GOL	D	106	-	5,5,5	1.02	0	5,5,5	0.96	0
8	SO4	C	326	-	4,4,4	0.13	0	6,6,6	0.06	0
10	PE8	F	106	-	24,24,24	0.47	0	23,23,23	0.27	0
5	GOL	B	154	-	5,5,5	0.97	0	5,5,5	1.08	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GOL	A	347	-	5,5,5	0.78	0	5,5,5	1.22	1 (20%)
5	GOL	A	311	-	5,5,5	0.89	0	5,5,5	1.05	0
5	GOL	A	345	-	5,5,5	0.96	0	5,5,5	1.16	1 (20%)
5	GOL	C	307	-	5,5,5	0.95	0	5,5,5	1.12	0
5	GOL	B	110	-	5,5,5	0.95	0	5,5,5	1.18	1 (20%)
5	GOL	E	102	-	5,5,5	0.96	0	5,5,5	1.18	0
7	PG4	B	119	-	12,12,12	0.12	0	11,11,11	0.71	0
9	PEG	A	331	-	6,6,6	0.16	0	5,5,5	0.26	0
10	PE8	A	344	-	24,24,24	0.48	0	23,23,23	0.23	0
9	PEG	C	303	-	6,6,6	0.10	0	5,5,5	0.10	0
9	PEG	B	128	-	6,6,6	0.11	0	5,5,5	0.10	0
5	GOL	D	107	-	5,5,5	0.92	0	5,5,5	1.09	0
7	PG4	D	117	-	12,12,12	0.11	0	11,11,11	0.70	0
10	PE8	B	137	-	24,24,24	0.47	0	23,23,23	0.26	0
7	PG4	B	122	-	12,12,12	0.10	0	11,11,11	0.67	0
9	PEG	D	125	-	6,6,6	0.11	0	5,5,5	0.10	0
9	PEG	D	121	-	6,6,6	0.10	0	5,5,5	0.10	0
7	PG4	C	325	-	12,12,12	0.11	0	11,11,11	0.73	0
11	EDO	B	143	-	3,3,3	0.43	0	2,2,2	0.35	0
5	GOL	B	111	-	5,5,5	0.96	0	5,5,5	0.97	0
5	GOL	C	337	-	5,5,5	0.93	0	5,5,5	1.18	1 (20%)
9	PEG	B	134	-	6,6,6	0.10	0	5,5,5	0.10	0
10	PE8	A	343	-	24,24,24	0.49	0	23,23,23	0.26	0
11	EDO	E	101	-	3,3,3	0.41	0	2,2,2	0.40	0
9	PEG	D	128	-	6,6,6	0.11	0	5,5,5	0.07	0
7	PG4	C	324	-	12,12,12	0.12	0	11,11,11	0.65	0
5	GOL	B	105	-	5,5,5	0.99	0	5,5,5	1.00	0
5	GOL	C	304	-	5,5,5	0.94	0	5,5,5	1.16	1 (20%)
9	PEG	C	332	-	6,6,6	0.11	0	5,5,5	0.09	0
5	GOL	B	103	-	5,5,5	0.96	0	5,5,5	1.15	0
7	PG4	D	103	-	12,12,12	0.10	0	11,11,11	0.65	0
10	PE8	B	136	-	24,24,24	0.48	0	23,23,23	0.32	0
9	PEG	C	331	-	6,6,6	0.17	0	5,5,5	0.20	0
5	GOL	D	137	-	5,5,5	0.88	0	5,5,5	0.97	0
9	PEG	B	129	-	6,6,6	0.12	0	5,5,5	0.07	0
8	SO4	C	301	-	4,4,4	0.14	0	6,6,6	0.05	0
10	PE8	F	102	-	24,24,24	0.48	0	23,23,23	0.23	0
9	PEG	A	335	-	6,6,6	0.10	0	5,5,5	0.11	0
5	GOL	B	140	-	5,5,5	0.96	0	5,5,5	1.17	1 (20%)
7	PG4	A	324	-	12,12,12	0.10	0	11,11,11	0.68	0
9	PEG	A	353	-	6,6,6	0.11	0	5,5,5	0.09	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GOL	D	108	-	5,5,5	0.94	0	5,5,5	1.19	1 (20%)
9	PEG	C	327	-	6,6,6	0.10	0	5,5,5	0.12	0
9	PEG	C	330	-	6,6,6	0.10	0	5,5,5	0.11	0
5	GOL	A	310	-	5,5,5	1.01	0	5,5,5	0.98	0
9	PEG	A	334	-	6,6,6	0.10	0	5,5,5	0.08	0
9	PEG	A	370	-	6,6,6	0.12	0	5,5,5	0.09	0
7	PG4	A	320	-	12,12,12	0.10	0	11,11,11	0.69	0
5	GOL	A	306	-	5,5,5	0.95	0	5,5,5	1.06	0
5	GOL	A	302	-	5,5,5	0.91	0	5,5,5	1.15	0
5	GOL	A	363	-	5,5,5	0.96	0	5,5,5	1.06	0
7	PG4	A	352	-	12,12,12	0.10	0	11,11,11	0.69	0
7	PG4	B	155	-	12,12,12	0.09	0	11,11,11	0.69	0
7	PG4	B	124	-	12,12,12	0.11	0	11,11,11	0.65	0
5	GOL	A	301	-	5,5,5	0.93	0	5,5,5	1.11	1 (20%)
5	GOL	A	314	-	5,5,5	0.94	0	5,5,5	1.16	1 (20%)
7	PG4	A	326	-	12,12,12	0.12	0	11,11,11	0.62	0
5	GOL	B	109	-	5,5,5	0.95	0	5,5,5	1.12	1 (20%)
9	PEG	B	126	-	6,6,6	0.11	0	5,5,5	0.09	0
9	PEG	C	346	-	6,6,6	0.09	0	5,5,5	0.11	0
5	GOL	A	364	-	5,5,5	0.96	0	5,5,5	1.11	0
7	PG4	B	125	-	12,12,12	0.13	0	11,11,11	0.75	0
5	GOL	B	108	-	5,5,5	0.95	0	5,5,5	1.16	1 (20%)
7	PG4	B	121	-	12,12,12	0.10	0	11,11,11	0.74	0
7	PG4	A	322	-	12,12,12	0.12	0	11,11,11	0.64	0
7	PG4	A	368	-	12,12,12	0.08	0	11,11,11	0.71	0
9	PEG	A	338	-	6,6,6	0.11	0	5,5,5	0.09	0
9	PEG	D	124	-	6,6,6	0.11	0	5,5,5	0.08	0
7	PG4	B	116	-	12,12,12	0.11	0	11,11,11	0.68	0
5	GOL	E	113	-	5,5,5	0.93	0	5,5,5	0.93	0
7	PG4	C	319	-	12,12,12	0.12	0	11,11,11	0.71	0
7	PG4	A	323	-	12,12,12	0.14	0	11,11,11	0.66	0
9	PEG	B	142	-	6,6,6	0.10	0	5,5,5	0.10	0
9	PEG	D	122	-	6,6,6	0.07	0	5,5,5	0.14	0
5	GOL	C	338	-	5,5,5	0.93	0	5,5,5	1.12	1 (20%)
11	EDO	D	130	-	3,3,3	0.47	0	2,2,2	0.36	0
5	GOL	D	112	-	5,5,5	0.97	0	5,5,5	1.17	1 (20%)
9	PEG	A	372	-	6,6,6	0.10	0	5,5,5	0.10	0
7	PG4	E	107	-	12,12,12	0.11	0	11,11,11	0.64	0
5	GOL	B	152	-	5,5,5	0.93	0	5,5,5	1.13	1 (20%)
9	PEG	B	130	-	6,6,6	0.11	0	5,5,5	0.08	0
7	PG4	C	323	-	12,12,12	0.14	0	11,11,11	0.60	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
7	PG4	D	116	-	12,12,12	0.12	0	11,11,11	0.62	0
7	PG4	C	336	-	12,12,12	0.10	0	11,11,11	0.65	0
9	PEG	B	139	-	6,6,6	0.09	0	5,5,5	0.09	0
5	GOL	C	308	-	5,5,5	0.98	0	5,5,5	1.06	0
8	SO4	A	328	-	4,4,4	0.14	0	6,6,6	0.04	0
10	PE8	B	138	-	24,24,24	0.47	0	23,23,23	0.28	0
5	GOL	C	310	-	5,5,5	0.93	0	5,5,5	1.09	0
7	PG4	E	115	-	12,12,12	0.12	0	11,11,11	0.57	0
9	PEG	B	135	-	6,6,6	0.12	0	5,5,5	0.08	0
7	PG4	C	320	-	12,12,12	0.12	0	11,11,11	0.50	0
7	PG4	A	319	-	12,12,12	0.10	0	11,11,11	0.67	0
7	PG4	A	367	-	12,12,12	0.10	0	11,11,11	0.69	0
9	PEG	D	126	-	6,6,6	0.10	0	5,5,5	0.09	0
5	GOL	E	103	-	5,5,5	0.92	0	5,5,5	1.12	0
8	SO4	A	327	-	4,4,4	0.13	0	6,6,6	0.06	0
5	GOL	A	309	-	5,5,5	0.96	0	5,5,5	1.07	0

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
5	GOL	C	347	-	-	2/4/4/4	-
9	PEG	A	339	-	-	3/4/4/4	-
5	GOL	B	107	-	-	0/4/4/4	-
7	PG4	D	120	-	-	7/10/10/10	-
7	PG4	A	325	-	-	8/10/10/10	-
9	PEG	B	131	-	-	2/4/4/4	-
9	PEG	A	340	-	-	4/4/4/4	-
11	EDO	B	144	-	-	1/1/1/1	-
11	EDO	A	351	-	-	1/1/1/1	-
5	GOL	A	313	-	-	0/4/4/4	-
5	GOL	C	306	-	-	2/4/4/4	-
9	PEG	C	339	-	-	3/4/4/4	-
9	PEG	A	330	-	-	2/4/4/4	-
5	GOL	A	312	-	-	4/4/4/4	-
9	PEG	D	127	-	-	2/4/4/4	-
10	PE8	A	342	-	-	13/22/22/22	-
7	PG4	D	118	-	-	8/10/10/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	GOL	A	305	-	-	0/4/4/4	-
9	PEG	B	132	-	-	3/4/4/4	-
9	PEG	C	333	-	-	2/4/4/4	-
5	GOL	A	362	-	-	4/4/4/4	-
9	PEG	D	123	-	-	2/4/4/4	-
9	PEG	A	336	-	-	2/4/4/4	-
9	PEG	D	105	-	-	3/4/4/4	-
7	PG4	F	105	-	-	5/10/10/10	-
9	PEG	A	332	-	-	3/4/4/4	-
11	EDO	E	111	-	-	1/1/1/1	-
5	GOL	D	131	-	-	4/4/4/4	-
5	GOL	E	104	-	-	2/4/4/4	-
5	GOL	D	111	-	-	2/4/4/4	-
5	GOL	C	314	-	-	4/4/4/4	-
5	GOL	F	103	-	-	2/4/4/4	-
7	PG4	D	119	-	-	4/10/10/10	-
9	PEG	A	329	-	-	1/4/4/4	-
11	EDO	D	101	-	-	0/1/1/1	-
9	PEG	A	337	-	-	4/4/4/4	-
9	PEG	A	333	-	-	3/4/4/4	-
9	PEG	B	156	-	-	2/4/4/4	-
7	PG4	A	321	-	-	8/10/10/10	-
7	PG4	B	120	-	-	4/10/10/10	-
7	PG4	B	101	-	-	3/10/10/10	-
9	PEG	B	133	-	-	3/4/4/4	-
7	PG4	B	123	-	-	8/10/10/10	-
9	PEG	B	127	-	-	3/4/4/4	-
9	PEG	A	341	-	-	2/4/4/4	-
5	GOL	A	373	-	-	2/4/4/4	-
5	GOL	D	113	-	-	0/4/4/4	-
9	PEG	C	334	-	-	2/4/4/4	-
7	PG4	E	105	-	-	4/10/10/10	-
11	EDO	D	102	2	-	1/1/1/1	-
9	PEG	A	371	-	-	1/4/4/4	-
7	PG4	C	302	-	-	5/10/10/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	GOL	B	112	-	-	2/4/4/4	-
7	PG4	E	106	-	-	7/10/10/10	-
7	PG4	B	117	-	-	7/10/10/10	-
5	GOL	C	344	-	-	2/4/4/4	-
7	PG4	F	101	-	-	6/10/10/10	-
5	GOL	D	109	-	-	2/4/4/4	-
5	GOL	B	106	-	-	0/4/4/4	-
5	GOL	C	305	-	-	2/4/4/4	-
9	PEG	C	328	-	-	2/4/4/4	-
5	GOL	B	153	-	-	0/4/4/4	-
9	PEG	B	157	-	-	3/4/4/4	-
5	GOL	A	303	-	-	1/4/4/4	-
10	PE8	E	109	-	-	11/22/22/22	-
10	PE8	E	110	-	-	16/22/22/22	-
7	PG4	A	366	-	-	5/10/10/10	-
5	GOL	D	110	-	-	2/4/4/4	-
9	PEG	B	158	-	-	2/4/4/4	-
5	GOL	B	104	-	-	2/4/4/4	-
5	GOL	C	313	-	-	2/4/4/4	-
7	PG4	A	365	-	-	8/10/10/10	-
9	PEG	D	104	-	-	1/4/4/4	-
10	PE8	B	102	-	-	9/22/22/22	-
7	PG4	C	322	-	-	5/10/10/10	-
9	PEG	C	329	-	-	3/4/4/4	-
5	GOL	C	345	-	-	2/4/4/4	-
5	GOL	A	304	-	-	2/4/4/4	-
9	PEG	A	346	-	-	3/4/4/4	-
7	PG4	A	369	-	-	6/10/10/10	-
7	PG4	E	114	-	-	7/10/10/10	-
5	GOL	A	308	-	-	0/4/4/4	-
5	GOL	C	309	-	-	4/4/4/4	-
5	GOL	C	312	-	-	4/4/4/4	-
7	PG4	C	321	-	-	6/10/10/10	-
10	PE8	C	335	-	-	13/22/22/22	-
5	GOL	C	311	-	-	4/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	PG4	B	118	-	-	5/10/10/10	-
5	GOL	A	307	-	-	2/4/4/4	-
5	GOL	D	106	-	-	3/4/4/4	-
10	PE8	F	106	-	-	16/22/22/22	-
5	GOL	B	154	-	-	0/4/4/4	-
5	GOL	A	347	-	-	2/4/4/4	-
5	GOL	A	311	-	-	4/4/4/4	-
5	GOL	A	345	-	-	4/4/4/4	-
5	GOL	C	307	-	-	4/4/4/4	-
5	GOL	B	110	-	-	1/4/4/4	-
5	GOL	E	102	-	-	4/4/4/4	-
7	PG4	B	119	-	-	7/10/10/10	-
9	PEG	A	331	-	-	3/4/4/4	-
10	PE8	A	344	-	-	12/22/22/22	-
9	PEG	C	303	-	-	3/4/4/4	-
9	PEG	B	128	-	-	2/4/4/4	-
5	GOL	D	107	-	-	4/4/4/4	-
7	PG4	D	117	-	-	7/10/10/10	-
10	PE8	B	137	-	-	12/22/22/22	-
7	PG4	B	122	-	-	7/10/10/10	-
9	PEG	D	125	-	-	2/4/4/4	-
9	PEG	D	121	-	-	3/4/4/4	-
7	PG4	C	325	-	-	7/10/10/10	-
11	EDO	B	143	-	-	0/1/1/1	-
5	GOL	B	111	-	-	4/4/4/4	-
5	GOL	C	337	-	-	2/4/4/4	-
9	PEG	B	134	-	-	3/4/4/4	-
10	PE8	A	343	-	-	15/22/22/22	-
11	EDO	E	101	-	-	0/1/1/1	-
9	PEG	D	128	-	-	2/4/4/4	-
7	PG4	C	324	-	-	7/10/10/10	-
5	GOL	B	105	-	-	0/4/4/4	-
5	GOL	C	304	-	-	4/4/4/4	-
9	PEG	C	332	-	-	3/4/4/4	-
5	GOL	B	103	-	-	4/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	PG4	D	103	-	-	7/10/10/10	-
10	PE8	B	136	-	-	13/22/22/22	-
9	PEG	C	331	-	-	3/4/4/4	-
5	GOL	D	137	-	-	2/4/4/4	-
9	PEG	B	129	-	-	2/4/4/4	-
10	PE8	F	102	-	-	14/22/22/22	-
9	PEG	A	335	-	-	3/4/4/4	-
5	GOL	B	140	-	-	2/4/4/4	-
7	PG4	A	324	-	-	7/10/10/10	-
9	PEG	A	353	-	-	3/4/4/4	-
5	GOL	D	108	-	-	1/4/4/4	-
9	PEG	C	327	-	-	2/4/4/4	-
9	PEG	C	330	-	-	3/4/4/4	-
5	GOL	A	310	-	-	2/4/4/4	-
9	PEG	A	334	-	-	2/4/4/4	-
9	PEG	A	370	-	-	2/4/4/4	-
7	PG4	A	320	-	-	5/10/10/10	-
5	GOL	A	306	-	-	2/4/4/4	-
5	GOL	A	302	-	-	2/4/4/4	-
5	GOL	A	363	-	-	2/4/4/4	-
7	PG4	A	352	-	-	8/10/10/10	-
7	PG4	B	155	-	-	6/10/10/10	-
7	PG4	B	124	-	-	4/10/10/10	-
5	GOL	A	301	-	-	4/4/4/4	-
5	GOL	A	314	-	-	2/4/4/4	-
7	PG4	A	326	-	-	8/10/10/10	-
5	GOL	B	109	-	-	2/4/4/4	-
9	PEG	B	126	-	-	1/4/4/4	-
9	PEG	C	346	-	-	2/4/4/4	-
5	GOL	A	364	-	-	3/4/4/4	-
7	PG4	B	125	-	-	7/10/10/10	-
5	GOL	B	108	-	-	2/4/4/4	-
7	PG4	B	121	-	-	7/10/10/10	-
7	PG4	A	322	-	-	3/10/10/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	PG4	A	368	-	-	7/10/10/10	-
9	PEG	A	338	-	-	2/4/4/4	-
9	PEG	D	124	-	-	2/4/4/4	-
7	PG4	B	116	-	-	7/10/10/10	-
5	GOL	E	113	-	-	3/4/4/4	-
7	PG4	C	319	-	-	6/10/10/10	-
7	PG4	A	323	-	-	6/10/10/10	-
9	PEG	B	142	-	-	1/4/4/4	-
9	PEG	D	122	-	-	1/4/4/4	-
5	GOL	C	338	-	-	2/4/4/4	-
11	EDO	D	130	-	-	1/1/1/1	-
5	GOL	D	112	-	-	3/4/4/4	-
9	PEG	A	372	-	-	3/4/4/4	-
7	PG4	E	107	-	-	2/10/10/10	-
5	GOL	B	152	-	-	3/4/4/4	-
9	PEG	B	130	-	-	4/4/4/4	-
7	PG4	C	323	-	-	6/10/10/10	-
7	PG4	D	116	-	-	3/10/10/10	-
7	PG4	C	336	-	-	4/10/10/10	-
9	PEG	B	139	-	-	3/4/4/4	-
5	GOL	C	308	-	-	4/4/4/4	-
10	PE8	B	138	-	-	15/22/22/22	-
5	GOL	C	310	-	-	4/4/4/4	-
7	PG4	E	115	-	-	5/10/10/10	-
9	PEG	B	135	-	-	1/4/4/4	-
7	PG4	C	320	-	-	7/10/10/10	-
7	PG4	A	319	-	-	5/10/10/10	-
7	PG4	A	367	-	-	6/10/10/10	-
9	PEG	D	126	-	-	3/4/4/4	-
5	GOL	E	103	-	-	2/4/4/4	-
5	GOL	A	309	-	-	2/4/4/4	-

There are no bond length outliers.

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A	347	GOL	C3-C2-C1	-2.41	102.34	111.70
5	C	309	GOL	C3-C2-C1	-2.20	103.15	111.70
5	B	104	GOL	C3-C2-C1	-2.11	103.51	111.70
5	C	304	GOL	C3-C2-C1	-2.11	103.51	111.70
5	C	337	GOL	C3-C2-C1	-2.10	103.55	111.70
5	B	112	GOL	C3-C2-C1	-2.09	103.58	111.70
5	D	108	GOL	C3-C2-C1	-2.08	103.63	111.70
5	C	306	GOL	C3-C2-C1	-2.08	103.64	111.70
5	C	312	GOL	C3-C2-C1	-2.07	103.64	111.70
5	D	112	GOL	C3-C2-C1	-2.06	103.70	111.70
5	A	314	GOL	C3-C2-C1	-2.06	103.70	111.70
5	B	108	GOL	C3-C2-C1	-2.06	103.71	111.70
5	D	131	GOL	C3-C2-C1	-2.05	103.72	111.70
5	B	110	GOL	C3-C2-C1	-2.04	103.79	111.70
5	E	104	GOL	C3-C2-C1	-2.03	103.80	111.70
5	C	338	GOL	C3-C2-C1	-2.03	103.80	111.70
5	B	140	GOL	C3-C2-C1	-2.03	103.81	111.70
5	A	345	GOL	C3-C2-C1	-2.02	103.86	111.70
5	A	301	GOL	C3-C2-C1	-2.02	103.87	111.70
5	C	311	GOL	C3-C2-C1	-2.02	103.87	111.70
5	B	109	GOL	C3-C2-C1	-2.01	103.88	111.70
5	B	152	GOL	C3-C2-C1	-2.01	103.90	111.70

There are no chirality outliers.

All (731) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	306	GOL	C1-C2-C3-O3
5	A	309	GOL	C1-C2-C3-O3
5	A	310	GOL	C1-C2-C3-O3
5	A	310	GOL	O2-C2-C3-O3
5	A	312	GOL	O1-C1-C2-C3
5	A	312	GOL	C1-C2-C3-O3
5	A	314	GOL	C1-C2-C3-O3
5	A	314	GOL	O2-C2-C3-O3
5	A	345	GOL	O1-C1-C2-O2
5	A	345	GOL	O1-C1-C2-C3
5	A	345	GOL	C1-C2-C3-O3
5	A	347	GOL	C1-C2-C3-O3
5	A	347	GOL	O2-C2-C3-O3
5	A	363	GOL	C1-C2-C3-O3
5	A	373	GOL	C1-C2-C3-O3
5	B	103	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
5	B	103	GOL	C1-C2-C3-O3
5	B	104	GOL	C1-C2-C3-O3
5	B	108	GOL	O1-C1-C2-O2
5	B	108	GOL	O1-C1-C2-C3
5	B	111	GOL	O1-C1-C2-C3
5	B	112	GOL	C1-C2-C3-O3
5	B	112	GOL	O2-C2-C3-O3
5	B	140	GOL	C1-C2-C3-O3
5	B	152	GOL	O2-C2-C3-O3
5	C	304	GOL	O1-C1-C2-C3
5	C	304	GOL	C1-C2-C3-O3
5	C	304	GOL	O2-C2-C3-O3
5	C	305	GOL	C1-C2-C3-O3
5	C	306	GOL	C1-C2-C3-O3
5	C	307	GOL	O1-C1-C2-C3
5	C	308	GOL	O1-C1-C2-C3
5	C	308	GOL	C1-C2-C3-O3
5	C	309	GOL	C1-C2-C3-O3
5	C	310	GOL	O1-C1-C2-C3
5	C	311	GOL	O1-C1-C2-C3
5	C	311	GOL	C1-C2-C3-O3
5	C	312	GOL	O1-C1-C2-C3
5	C	312	GOL	C1-C2-C3-O3
5	C	312	GOL	O2-C2-C3-O3
5	C	313	GOL	O1-C1-C2-O2
5	C	313	GOL	O1-C1-C2-C3
5	C	314	GOL	O1-C1-C2-C3
5	C	314	GOL	C1-C2-C3-O3
5	C	337	GOL	O1-C1-C2-O2
5	C	337	GOL	O1-C1-C2-C3
5	C	347	GOL	C1-C2-C3-O3
5	D	107	GOL	O1-C1-C2-C3
5	D	112	GOL	C1-C2-C3-O3
5	D	131	GOL	O1-C1-C2-C3
5	D	131	GOL	C1-C2-C3-O3
5	E	102	GOL	C1-C2-C3-O3
7	F	105	PG4	C1-C2-O2-C3
9	A	331	PEG	C4-C3-O2-C2
9	C	334	PEG	C4-C3-O2-C2
7	D	119	PG4	C1-C2-O2-C3
9	B	157	PEG	C4-C3-O2-C2
10	E	110	PE8	C9-C8-O7-C6

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Mol	Chain	Res	Type	Atoms
7	A	325	PG4	C6-C5-O3-C4
7	B	118	PG4	C1-C2-O2-C3
9	C	331	PEG	C1-C2-O2-C3
7	A	323	PG4	C3-C4-O3-C5
7	B	125	PG4	C1-C2-O2-C3
10	B	136	PE8	C12-C11-O10-C9
10	B	138	PE8	C15-C14-O13-C12
7	A	322	PG4	C1-C2-O2-C3
7	C	323	PG4	C1-C2-O2-C3
10	A	342	PE8	C6-C5-O4-C3
10	E	109	PE8	C21-C20-O19-C18
7	E	115	PG4	C4-C3-O2-C2
10	B	136	PE8	C11-C12-O13-C14
7	F	101	PG4	C3-C4-O3-C5
7	D	118	PG4	C1-C2-O2-C3
10	B	136	PE8	C21-C20-O19-C18
10	E	109	PE8	C8-C9-O10-C11
7	D	118	PG4	O1-C1-C2-O2
7	D	120	PG4	O1-C1-C2-O2
9	A	340	PEG	O1-C1-C2-O2
9	C	333	PEG	O1-C1-C2-O2
7	C	323	PG4	C6-C5-O3-C4
10	B	138	PE8	C5-C6-O7-C8
7	A	324	PG4	O3-C5-C6-O4
7	D	118	PG4	O2-C3-C4-O3
7	A	320	PG4	O2-C3-C4-O3
7	B	155	PG4	O3-C5-C6-O4
7	C	325	PG4	O2-C3-C4-O3
7	E	106	PG4	O2-C3-C4-O3
7	E	115	PG4	O2-C3-C4-O3
10	A	344	PE8	O7-C8-C9-O10
10	B	102	PE8	O10-C11-C12-O13
10	B	136	PE8	O10-C11-C12-O13
10	C	335	PE8	O13-C14-C15-O16
7	B	122	PG4	O3-C5-C6-O4
7	B	123	PG4	O3-C5-C6-O4
7	C	320	PG4	O3-C5-C6-O4
10	A	342	PE8	O10-C11-C12-O13
10	B	102	PE8	O16-C17-C18-O19
7	C	319	PG4	O2-C3-C4-O3
7	C	323	PG4	O3-C5-C6-O4
7	C	324	PG4	O3-C5-C6-O4

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Mol	Chain	Res	Type	Atoms
7	D	118	PG4	O3-C5-C6-O4
10	E	110	PE8	O7-C8-C9-O10
10	F	106	PE8	O4-C5-C6-O7
7	A	323	PG4	O2-C3-C4-O3
7	B	119	PG4	O2-C3-C4-O3
7	C	321	PG4	O2-C3-C4-O3
10	A	344	PE8	O4-C5-C6-O7
7	B	122	PG4	O2-C3-C4-O3
7	B	125	PG4	O3-C5-C6-O4
9	A	346	PEG	C1-C2-O2-C3
10	A	344	PE8	O10-C11-C12-O13
7	A	323	PG4	O3-C5-C6-O4
7	B	101	PG4	O2-C3-C4-O3
7	D	117	PG4	O2-C3-C4-O3
10	F	102	PE8	O4-C5-C6-O7
10	F	102	PE8	O16-C17-C18-O19
7	B	120	PG4	O3-C5-C6-O4
10	B	138	PE8	O16-C17-C18-O19
10	E	110	PE8	O16-C17-C18-O19
7	A	320	PG4	O3-C5-C6-O4
7	A	368	PG4	O2-C3-C4-O3
7	D	120	PG4	O3-C5-C6-O4
7	D	103	PG4	O1-C1-C2-O2
7	D	103	PG4	O4-C7-C8-O5
7	D	118	PG4	O4-C7-C8-O5
9	B	158	PEG	O2-C3-C4-O4
9	D	104	PEG	O1-C1-C2-O2
7	D	116	PG4	O2-C3-C4-O3
10	B	138	PE8	C18-C17-O16-C15
7	A	321	PG4	O3-C5-C6-O4
7	B	116	PG4	O2-C3-C4-O3
7	C	325	PG4	O3-C5-C6-O4
7	E	114	PG4	O3-C5-C6-O4
10	A	344	PE8	O16-C17-C18-O19
10	F	102	PE8	O10-C11-C12-O13
10	F	106	PE8	O19-C20-C21-O22
7	C	322	PG4	O3-C5-C6-O4
7	D	117	PG4	O3-C5-C6-O4
7	E	107	PG4	O3-C5-C6-O4
10	A	343	PE8	O4-C5-C6-O7
10	A	344	PE8	O13-C14-C15-O16
10	B	136	PE8	O13-C14-C15-O16

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Mol	Chain	Res	Type	Atoms
10	B	138	PE8	O13-C14-C15-O16
10	B	136	PE8	O7-C8-C9-O10
10	E	109	PE8	O19-C20-C21-O22
7	A	325	PG4	C5-C6-O4-C7
10	E	109	PE8	C15-C14-O13-C12
7	E	107	PG4	O2-C3-C4-O3
7	D	103	PG4	O3-C5-C6-O4
7	B	117	PG4	O3-C5-C6-O4
7	C	319	PG4	O3-C5-C6-O4
7	E	115	PG4	O3-C5-C6-O4
5	A	302	GOL	O2-C2-C3-O3
5	A	311	GOL	O1-C1-C2-O2
5	A	345	GOL	O2-C2-C3-O3
5	C	305	GOL	O2-C2-C3-O3
5	C	306	GOL	O2-C2-C3-O3
5	C	312	GOL	O1-C1-C2-O2
5	C	338	GOL	O1-C1-C2-O2
5	D	131	GOL	O1-C1-C2-O2
7	B	118	PG4	O2-C3-C4-O3
7	E	105	PG4	C1-C2-O2-C3
10	E	109	PE8	O10-C11-C12-O13
7	A	320	PG4	O4-C7-C8-O5
7	A	321	PG4	O4-C7-C8-O5
7	A	324	PG4	O1-C1-C2-O2
7	A	325	PG4	O4-C7-C8-O5
7	A	326	PG4	O1-C1-C2-O2
7	A	365	PG4	O1-C1-C2-O2
7	A	365	PG4	O4-C7-C8-O5
7	A	369	PG4	O1-C1-C2-O2
7	A	369	PG4	O4-C7-C8-O5
7	B	116	PG4	O4-C7-C8-O5
7	B	124	PG4	O1-C1-C2-O2
7	B	125	PG4	O4-C7-C8-O5
7	B	155	PG4	O4-C7-C8-O5
7	C	321	PG4	O1-C1-C2-O2
7	C	322	PG4	O1-C1-C2-O2
7	C	322	PG4	O4-C7-C8-O5
7	C	325	PG4	O1-C1-C2-O2
7	D	119	PG4	O1-C1-C2-O2
7	E	106	PG4	O4-C7-C8-O5
7	E	115	PG4	O1-C1-C2-O2
9	A	330	PEG	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
9	A	333	PEG	O2-C3-C4-O4
9	A	346	PEG	O2-C3-C4-O4
9	A	370	PEG	O1-C1-C2-O2
9	A	371	PEG	O1-C1-C2-O2
9	B	133	PEG	O1-C1-C2-O2
9	B	156	PEG	O2-C3-C4-O4
9	B	157	PEG	O1-C1-C2-O2
9	C	327	PEG	O2-C3-C4-O4
9	C	329	PEG	O2-C3-C4-O4
9	C	331	PEG	O2-C3-C4-O4
9	C	339	PEG	O1-C1-C2-O2
9	D	105	PEG	O2-C3-C4-O4
9	D	124	PEG	O1-C1-C2-O2
9	D	128	PEG	O2-C3-C4-O4
10	A	343	PE8	O22-C23-C24-O25
10	A	344	PE8	O22-C23-C24-O25
10	B	136	PE8	O1-C2-C3-O4
10	B	138	PE8	O22-C23-C24-O25
10	E	110	PE8	O22-C23-C24-O25
10	F	106	PE8	O22-C23-C24-O25
11	E	111	EDO	O1-C1-C2-O2
10	F	102	PE8	O7-C8-C9-O10
7	F	105	PG4	O3-C5-C6-O4
7	B	122	PG4	C1-C2-O2-C3
10	C	335	PE8	O10-C11-C12-O13
7	A	366	PG4	O3-C5-C6-O4
7	A	365	PG4	C6-C5-O3-C4
7	A	325	PG4	O3-C5-C6-O4
10	A	342	PE8	O19-C20-C21-O22
10	A	343	PE8	O7-C8-C9-O10
10	E	109	PE8	O4-C5-C6-O7
7	A	325	PG4	O2-C3-C4-O3
7	A	352	PG4	O1-C1-C2-O2
7	C	319	PG4	O1-C1-C2-O2
7	C	320	PG4	O1-C1-C2-O2
9	A	331	PEG	O1-C1-C2-O2
9	A	332	PEG	O1-C1-C2-O2
9	A	334	PEG	O1-C1-C2-O2
9	A	337	PEG	O1-C1-C2-O2
9	A	337	PEG	O2-C3-C4-O4
9	A	339	PEG	O2-C3-C4-O4
9	A	346	PEG	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
9	A	353	PEG	O1-C1-C2-O2
9	B	127	PEG	O1-C1-C2-O2
9	B	128	PEG	O1-C1-C2-O2
9	B	139	PEG	O1-C1-C2-O2
9	B	156	PEG	O1-C1-C2-O2
9	C	303	PEG	O1-C1-C2-O2
9	C	330	PEG	O2-C3-C4-O4
9	C	331	PEG	O1-C1-C2-O2
9	C	332	PEG	O2-C3-C4-O4
10	A	343	PE8	O1-C2-C3-O4
7	E	106	PG4	O3-C5-C6-O4
7	B	125	PG4	C8-C7-O4-C6
10	F	106	PE8	C15-C14-O13-C12
10	B	136	PE8	O4-C5-C6-O7
7	C	325	PG4	C4-C3-O2-C2
7	B	118	PG4	O3-C5-C6-O4
5	A	301	GOL	O1-C1-C2-C3
5	A	302	GOL	C1-C2-C3-O3
5	A	307	GOL	O1-C1-C2-C3
5	A	311	GOL	O1-C1-C2-C3
5	A	311	GOL	C1-C2-C3-O3
5	A	362	GOL	O1-C1-C2-C3
5	A	364	GOL	O1-C1-C2-C3
5	B	109	GOL	O1-C1-C2-C3
5	B	111	GOL	C1-C2-C3-O3
5	B	152	GOL	C1-C2-C3-O3
5	C	310	GOL	C1-C2-C3-O3
5	C	338	GOL	O1-C1-C2-C3
5	C	344	GOL	O1-C1-C2-C3
5	C	345	GOL	O1-C1-C2-C3
5	D	106	GOL	O1-C1-C2-C3
5	D	107	GOL	C1-C2-C3-O3
5	D	110	GOL	C1-C2-C3-O3
5	D	111	GOL	O1-C1-C2-C3
5	D	137	GOL	C1-C2-C3-O3
5	E	102	GOL	O1-C1-C2-C3
5	E	103	GOL	C1-C2-C3-O3
5	E	104	GOL	O1-C1-C2-C3
5	E	113	GOL	O1-C1-C2-C3
5	E	113	GOL	C1-C2-C3-O3
5	F	103	GOL	O1-C1-C2-C3
7	A	319	PG4	O2-C3-C4-O3

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Mol	Chain	Res	Type	Atoms
10	A	342	PE8	O7-C8-C9-O10
7	E	114	PG4	O2-C3-C4-O3
7	A	325	PG4	O1-C1-C2-O2
7	B	101	PG4	O1-C1-C2-O2
7	B	117	PG4	O4-C7-C8-O5
7	B	119	PG4	O1-C1-C2-O2
7	B	119	PG4	O4-C7-C8-O5
7	E	114	PG4	O4-C7-C8-O5
7	F	101	PG4	O1-C1-C2-O2
9	A	329	PEG	O1-C1-C2-O2
9	B	128	PEG	O2-C3-C4-O4
9	B	134	PEG	O1-C1-C2-O2
9	B	142	PEG	O2-C3-C4-O4
9	C	333	PEG	O2-C3-C4-O4
9	C	334	PEG	O1-C1-C2-O2
9	D	105	PEG	O1-C1-C2-O2
9	D	125	PEG	O1-C1-C2-O2
10	E	110	PE8	O1-C2-C3-O4
7	B	121	PG4	O2-C3-C4-O3
10	B	102	PE8	O4-C5-C6-O7
10	E	110	PE8	O4-C5-C6-O7
7	E	105	PG4	O3-C5-C6-O4
10	F	102	PE8	O19-C20-C21-O22
7	A	368	PG4	O3-C5-C6-O4
5	A	306	GOL	O2-C2-C3-O3
5	A	309	GOL	O2-C2-C3-O3
5	A	311	GOL	O2-C2-C3-O3
5	A	312	GOL	O1-C1-C2-O2
5	A	312	GOL	O2-C2-C3-O3
5	A	364	GOL	O1-C1-C2-O2
5	A	373	GOL	O2-C2-C3-O3
5	B	103	GOL	O1-C1-C2-O2
5	B	103	GOL	O2-C2-C3-O3
5	B	104	GOL	O2-C2-C3-O3
5	B	111	GOL	O1-C1-C2-O2
5	B	111	GOL	O2-C2-C3-O3
5	C	307	GOL	O1-C1-C2-O2
5	C	308	GOL	O2-C2-C3-O3
5	C	310	GOL	O2-C2-C3-O3
5	C	311	GOL	O1-C1-C2-O2
5	C	314	GOL	O1-C1-C2-O2
5	C	314	GOL	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
5	C	344	GOL	O1-C1-C2-O2
5	C	345	GOL	O1-C1-C2-O2
5	C	347	GOL	O2-C2-C3-O3
5	D	107	GOL	O1-C1-C2-O2
5	D	110	GOL	O2-C2-C3-O3
5	D	111	GOL	O1-C1-C2-O2
5	D	137	GOL	O2-C2-C3-O3
5	E	104	GOL	O1-C1-C2-O2
7	C	336	PG4	O2-C3-C4-O3
7	C	320	PG4	O2-C3-C4-O3
7	A	319	PG4	O4-C7-C8-O5
7	A	323	PG4	O1-C1-C2-O2
7	F	105	PG4	O1-C1-C2-O2
9	A	340	PEG	O2-C3-C4-O4
9	A	353	PEG	O2-C3-C4-O4
9	B	135	PEG	O2-C3-C4-O4
9	D	125	PEG	O2-C3-C4-O4
10	A	344	PE8	O1-C2-C3-O4
10	B	137	PE8	O22-C23-C24-O25
11	A	351	EDO	O1-C1-C2-O2
10	E	110	PE8	O10-C11-C12-O13
7	A	352	PG4	O3-C5-C6-O4
10	B	138	PE8	O10-C11-C12-O13
10	F	106	PE8	O7-C8-C9-O10
7	A	352	PG4	O2-C3-C4-O3
10	B	137	PE8	O7-C8-C9-O10
7	D	119	PG4	O2-C3-C4-O3
10	B	137	PE8	O4-C5-C6-O7
10	F	106	PE8	O10-C11-C12-O13
7	B	121	PG4	O3-C5-C6-O4
7	A	365	PG4	O2-C3-C4-O3
7	C	336	PG4	O3-C5-C6-O4
7	B	120	PG4	O4-C7-C8-O5
7	C	302	PG4	O1-C1-C2-O2
7	C	320	PG4	O4-C7-C8-O5
9	C	346	PEG	O2-C3-C4-O4
10	F	106	PE8	O1-C2-C3-O4
10	F	106	PE8	O16-C17-C18-O19
9	C	328	PEG	C1-C2-O2-C3
10	A	342	PE8	O16-C17-C18-O19
10	F	102	PE8	C8-C9-O10-C11
7	A	367	PG4	O2-C3-C4-O3

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Mol	Chain	Res	Type	Atoms
7	A	319	PG4	O1-C1-C2-O2
7	A	321	PG4	O1-C1-C2-O2
7	B	118	PG4	O1-C1-C2-O2
7	B	121	PG4	O4-C7-C8-O5
7	C	302	PG4	O4-C7-C8-O5
9	A	330	PEG	O2-C3-C4-O4
9	A	335	PEG	O2-C3-C4-O4
9	A	339	PEG	O1-C1-C2-O2
9	B	129	PEG	O1-C1-C2-O2
9	B	139	PEG	O2-C3-C4-O4
9	C	327	PEG	O1-C1-C2-O2
9	C	328	PEG	O1-C1-C2-O2
9	C	329	PEG	O1-C1-C2-O2
9	C	332	PEG	O1-C1-C2-O2
9	D	122	PEG	O2-C3-C4-O4
10	C	335	PE8	O1-C2-C3-O4
10	C	335	PE8	O22-C23-C24-O25
7	B	101	PG4	O3-C5-C6-O4
7	D	103	PG4	O2-C3-C4-O3
10	B	137	PE8	C20-C21-O22-C23
5	A	362	GOL	O1-C1-C2-O2
5	A	363	GOL	O2-C2-C3-O3
5	B	140	GOL	O2-C2-C3-O3
5	C	304	GOL	O1-C1-C2-O2
5	C	308	GOL	O1-C1-C2-O2
5	C	310	GOL	O1-C1-C2-O2
5	D	112	GOL	O2-C2-C3-O3
5	D	131	GOL	O2-C2-C3-O3
5	E	102	GOL	O1-C1-C2-O2
5	E	102	GOL	O2-C2-C3-O3
5	F	103	GOL	O1-C1-C2-O2
7	B	117	PG4	O2-C3-C4-O3
9	D	124	PEG	C4-C3-O2-C2
7	A	367	PG4	O3-C5-C6-O4
7	A	369	PG4	O3-C5-C6-O4
10	C	335	PE8	O7-C8-C9-O10
7	F	105	PG4	O4-C7-C8-O5
9	B	132	PEG	O2-C3-C4-O4
9	D	123	PEG	O1-C1-C2-O2
11	D	102	EDO	O1-C1-C2-O2
10	C	335	PE8	O19-C20-C21-O22
10	C	335	PE8	O4-C5-C6-O7

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Mol	Chain	Res	Type	Atoms
7	C	319	PG4	C1-C2-O2-C3
7	D	117	PG4	O1-C1-C2-O2
7	B	124	PG4	O3-C5-C6-O4
10	E	110	PE8	O13-C14-C15-O16
7	C	320	PG4	C5-C6-O4-C7
10	A	342	PE8	O4-C5-C6-O7
7	A	326	PG4	O3-C5-C6-O4
7	B	120	PG4	O2-C3-C4-O3
7	C	324	PG4	C3-C4-O3-C5
7	A	326	PG4	O2-C3-C4-O3
7	C	321	PG4	O3-C5-C6-O4
7	C	336	PG4	O4-C7-C8-O5
5	A	307	GOL	O1-C1-C2-O2
5	A	364	GOL	O2-C2-C3-O3
5	C	311	GOL	O2-C2-C3-O3
5	D	109	GOL	O2-C2-C3-O3
5	E	103	GOL	O2-C2-C3-O3
7	A	369	PG4	O2-C3-C4-O3
9	B	133	PEG	C4-C3-O2-C2
7	C	320	PG4	C6-C5-O3-C4
7	A	326	PG4	O4-C7-C8-O5
9	B	126	PEG	O2-C3-C4-O4
9	B	130	PEG	O2-C3-C4-O4
9	D	126	PEG	O1-C1-C2-O2
7	D	120	PG4	O2-C3-C4-O3
9	A	353	PEG	C4-C3-O2-C2
7	C	321	PG4	C3-C4-O3-C5
10	F	106	PE8	C5-C6-O7-C8
7	A	368	PG4	O1-C1-C2-O2
9	A	372	PEG	C1-C2-O2-C3
9	D	121	PEG	C4-C3-O2-C2
10	A	342	PE8	C14-C15-O16-C17
10	E	110	PE8	C20-C21-O22-C23
7	A	320	PG4	C5-C6-O4-C7
7	A	321	PG4	C5-C6-O4-C7
7	B	118	PG4	C5-C6-O4-C7
7	C	319	PG4	C5-C6-O4-C7
7	C	323	PG4	C5-C6-O4-C7
9	A	334	PEG	C1-C2-O2-C3
9	C	346	PEG	C4-C3-O2-C2
10	A	343	PE8	C20-C21-O22-C23
7	A	321	PG4	C6-C5-O3-C4

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Mol	Chain	Res	Type	Atoms
9	B	127	PEG	C4-C3-O2-C2
10	B	138	PE8	C21-C20-O19-C18
7	A	325	PG4	C1-C2-O2-C3
7	A	352	PG4	C1-C2-O2-C3
7	B	123	PG4	C4-C3-O2-C2
7	C	322	PG4	C5-C6-O4-C7
7	D	119	PG4	C4-C3-O2-C2
10	A	342	PE8	C5-C6-O7-C8
10	F	102	PE8	C2-C3-O4-C5
10	F	102	PE8	C17-C18-O19-C20
7	A	324	PG4	C1-C2-O2-C3
7	A	365	PG4	O3-C5-C6-O4
7	B	119	PG4	C5-C6-O4-C7
7	B	124	PG4	C5-C6-O4-C7
7	D	103	PG4	C1-C2-O2-C3
7	E	106	PG4	C8-C7-O4-C6
10	F	102	PE8	C15-C14-O13-C12
7	E	114	PG4	C5-C6-O4-C7
9	A	332	PEG	C1-C2-O2-C3
9	D	126	PEG	C4-C3-O2-C2
7	A	324	PG4	C4-C3-O2-C2
10	A	343	PE8	C9-C8-O7-C6
7	B	119	PG4	C6-C5-O3-C4
7	E	106	PG4	C5-C6-O4-C7
7	A	324	PG4	C3-C4-O3-C5
7	C	319	PG4	C8-C7-O4-C6
9	B	132	PEG	C1-C2-O2-C3
10	A	342	PE8	C9-C8-O7-C6
10	A	343	PE8	C21-C20-O19-C18
10	A	344	PE8	C21-C20-O19-C18
10	C	335	PE8	C5-C6-O7-C8
10	C	335	PE8	C24-C23-O22-C21
7	A	367	PG4	C4-C3-O2-C2
7	B	116	PG4	C4-C3-O2-C2
9	A	337	PEG	C4-C3-O2-C2
10	F	102	PE8	C20-C21-O22-C23
7	A	324	PG4	C5-C6-O4-C7
7	A	326	PG4	C8-C7-O4-C6
7	A	368	PG4	C8-C7-O4-C6
7	B	119	PG4	C8-C7-O4-C6
7	B	120	PG4	C3-C4-O3-C5
7	C	324	PG4	C8-C7-O4-C6

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Mol	Chain	Res	Type	Atoms
7	C	325	PG4	C5-C6-O4-C7
9	A	331	PEG	C1-C2-O2-C3
9	A	333	PEG	C4-C3-O2-C2
9	B	157	PEG	C1-C2-O2-C3
10	A	342	PE8	C8-C9-O10-C11
10	A	343	PE8	C6-C5-O4-C3
10	B	137	PE8	C2-C3-O4-C5
10	B	138	PE8	C20-C21-O22-C23
10	E	110	PE8	C5-C6-O7-C8
7	A	319	PG4	C8-C7-O4-C6
7	A	325	PG4	C8-C7-O4-C6
7	B	122	PG4	C4-C3-O2-C2
7	F	101	PG4	C5-C6-O4-C7
9	A	340	PEG	C4-C3-O2-C2
9	B	158	PEG	C1-C2-O2-C3
9	D	121	PEG	C1-C2-O2-C3
10	A	343	PE8	C14-C15-O16-C17
10	F	106	PE8	C8-C9-O10-C11
7	B	121	PG4	C5-C6-O4-C7
7	B	124	PG4	C1-C2-O2-C3
7	B	125	PG4	C6-C5-O3-C4
9	D	128	PEG	C1-C2-O2-C3
9	A	338	PEG	C4-C3-O2-C2
5	A	304	GOL	O2-C2-C3-O3
5	A	362	GOL	O2-C2-C3-O3
5	C	307	GOL	O2-C2-C3-O3
5	C	309	GOL	O1-C1-C2-O2
7	A	320	PG4	C8-C7-O4-C6
7	D	118	PG4	C4-C3-O2-C2
7	E	114	PG4	C1-C2-O2-C3
9	A	338	PEG	O1-C1-C2-O2
9	B	132	PEG	O1-C1-C2-O2
9	B	134	PEG	O2-C3-C4-O4
9	C	339	PEG	O2-C3-C4-O4
10	E	109	PE8	O22-C23-C24-O25
9	A	335	PEG	C4-C3-O2-C2
9	A	372	PEG	C4-C3-O2-C2
10	B	137	PE8	C9-C8-O7-C6
7	B	119	PG4	C1-C2-O2-C3
7	B	123	PG4	C3-C4-O3-C5
7	C	324	PG4	C4-C3-O2-C2
9	D	126	PEG	C1-C2-O2-C3

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Mol	Chain	Res	Type	Atoms
10	B	137	PE8	C17-C18-O19-C20
7	B	117	PG4	C5-C6-O4-C7
7	B	155	PG4	C4-C3-O2-C2
7	D	120	PG4	C3-C4-O3-C5
7	E	106	PG4	C1-C2-O2-C3
10	A	343	PE8	O10-C11-C12-O13
10	C	335	PE8	C17-C18-O19-C20
7	A	365	PG4	C8-C7-O4-C6
7	B	121	PG4	C3-C4-O3-C5
10	B	138	PE8	C17-C18-O19-C20
9	B	131	PEG	C1-C2-O2-C3
5	C	309	GOL	O1-C1-C2-C3
5	D	109	GOL	C1-C2-C3-O3
7	B	123	PG4	C6-C5-O3-C4
9	B	130	PEG	C1-C2-O2-C3
10	E	109	PE8	C2-C3-O4-C5
7	B	123	PG4	C8-C7-O4-C6
7	C	336	PG4	C1-C2-O2-C3
7	A	365	PG4	C4-C3-O2-C2
9	A	333	PEG	C1-C2-O2-C3
10	E	109	PE8	O16-C17-C18-O19
7	B	122	PG4	O4-C7-C8-O5
7	D	120	PG4	O4-C7-C8-O5
9	D	121	PEG	O1-C1-C2-O2
10	B	137	PE8	O1-C2-C3-O4
10	F	106	PE8	C11-C12-O13-C14
10	B	138	PE8	C9-C8-O7-C6
7	B	117	PG4	C6-C5-O3-C4
7	B	155	PG4	C3-C4-O3-C5
9	B	127	PEG	C1-C2-O2-C3
9	B	130	PEG	C4-C3-O2-C2
9	C	330	PEG	C1-C2-O2-C3
10	B	102	PE8	C11-C12-O13-C14
7	B	125	PG4	C3-C4-O3-C5
9	C	329	PEG	C1-C2-O2-C3
10	A	344	PE8	C12-C11-O10-C9
10	B	136	PE8	C6-C5-O4-C3
10	B	102	PE8	C8-C9-O10-C11
10	E	110	PE8	C18-C17-O16-C15
9	A	337	PEG	C1-C2-O2-C3
10	E	109	PE8	C11-C12-O13-C14
7	A	319	PG4	O3-C5-C6-O4

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Mol	Chain	Res	Type	Atoms
7	A	352	PG4	C6-C5-O3-C4
7	B	123	PG4	O1-C1-C2-O2
9	B	130	PEG	O1-C1-C2-O2
10	A	342	PE8	C21-C20-O19-C18
7	A	366	PG4	C5-C6-O4-C7
7	F	105	PG4	O2-C3-C4-O3
7	B	123	PG4	C5-C6-O4-C7
7	C	325	PG4	C3-C4-O3-C5
7	A	369	PG4	C6-C5-O3-C4
10	A	343	PE8	C24-C23-O22-C21
7	D	117	PG4	C6-C5-O3-C4
10	E	110	PE8	C17-C18-O19-C20
5	D	106	GOL	O1-C1-C2-O2
7	A	366	PG4	C1-C2-O2-C3
7	B	116	PG4	C3-C4-O3-C5
10	B	137	PE8	C8-C9-O10-C11
7	E	114	PG4	O1-C1-C2-O2
10	F	102	PE8	O22-C23-C24-O25
10	A	342	PE8	C17-C18-O19-C20
7	D	118	PG4	C8-C7-O4-C6
7	D	120	PG4	C6-C5-O3-C4
7	C	323	PG4	C4-C3-O2-C2
9	B	139	PEG	C1-C2-O2-C3
7	D	103	PG4	C6-C5-O3-C4
10	C	335	PE8	O16-C17-C18-O19
7	A	365	PG4	C1-C2-O2-C3
7	A	326	PG4	C4-C3-O2-C2
7	A	323	PG4	C4-C3-O2-C2
9	C	303	PEG	C1-C2-O2-C3
9	A	336	PEG	C4-C3-O2-C2
10	B	137	PE8	C15-C14-O13-C12
7	B	121	PG4	C6-C5-O3-C4
7	A	367	PG4	O4-C7-C8-O5
11	D	130	EDO	O1-C1-C2-O2
7	C	323	PG4	C8-C7-O4-C6
10	E	110	PE8	C21-C20-O19-C18
7	A	366	PG4	C4-C3-O2-C2
10	B	102	PE8	C5-C6-O7-C8
10	E	109	PE8	O13-C14-C15-O16
7	A	366	PG4	C8-C7-O4-C6
7	A	369	PG4	C4-C3-O2-C2
7	C	302	PG4	C8-C7-O4-C6

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Mol	Chain	Res	Type	Atoms
9	C	339	PEG	C4-C3-O2-C2
9	D	123	PEG	C1-C2-O2-C3
7	C	325	PG4	C8-C7-O4-C6
7	A	352	PG4	C3-C4-O3-C5
9	A	341	PEG	C4-C3-O2-C2
9	C	303	PEG	C4-C3-O2-C2
7	D	117	PG4	C4-C3-O2-C2
10	E	110	PE8	C14-C15-O16-C17
7	A	367	PG4	C5-C6-O4-C7
10	B	137	PE8	C14-C15-O16-C17
7	C	320	PG4	C4-C3-O2-C2
5	A	301	GOL	C1-C2-C3-O3
7	E	106	PG4	C4-C3-O2-C2
5	B	109	GOL	O1-C1-C2-O2
5	D	106	GOL	O2-C2-C3-O3
5	E	113	GOL	O2-C2-C3-O3
7	C	302	PG4	O2-C3-C4-O3
9	A	336	PEG	O1-C1-C2-O2
7	D	120	PG4	C5-C6-O4-C7
7	A	368	PG4	C4-C3-O2-C2
7	A	326	PG4	C1-C2-O2-C3
10	F	106	PE8	C17-C18-O19-C20
9	C	330	PEG	C4-C3-O2-C2
7	E	114	PG4	C6-C5-O3-C4
7	F	101	PG4	C8-C7-O4-C6
10	A	343	PE8	C2-C3-O4-C5
7	B	125	PG4	O2-C3-C4-O3
7	B	121	PG4	O1-C1-C2-O2
7	A	324	PG4	O2-C3-C4-O3
10	A	344	PE8	C11-C12-O13-C14
11	B	144	EDO	O1-C1-C2-O2
9	A	340	PEG	C1-C2-O2-C3
10	B	138	PE8	O7-C8-C9-O10
10	F	102	PE8	C11-C12-O13-C14
10	F	106	PE8	C6-C5-O4-C3
7	D	118	PG4	C5-C6-O4-C7
10	B	138	PE8	C8-C9-O10-C11
10	F	106	PE8	C20-C21-O22-C23
7	B	116	PG4	C1-C2-O2-C3
9	D	127	PEG	C4-C3-O2-C2
10	B	102	PE8	O7-C8-C9-O10
9	B	134	PEG	C4-C3-O2-C2

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Mol	Chain	Res	Type	Atoms
10	A	343	PE8	C18-C17-O16-C15
5	B	110	GOL	O2-C2-C3-O3
5	C	309	GOL	O2-C2-C3-O3
7	C	324	PG4	C6-C5-O3-C4
7	E	105	PG4	C5-C6-O4-C7
7	A	322	PG4	C5-C6-O4-C7
7	D	117	PG4	C8-C7-O4-C6
9	B	131	PEG	C4-C3-O2-C2
9	B	133	PEG	C1-C2-O2-C3
10	F	102	PE8	C14-C15-O16-C17
7	F	101	PG4	O2-C3-C4-O3
9	A	339	PEG	C4-C3-O2-C2
7	B	116	PG4	O3-C5-C6-O4
7	B	117	PG4	C4-C3-O2-C2
9	C	332	PEG	C1-C2-O2-C3
10	E	110	PE8	O19-C20-C21-O22
7	E	115	PG4	C8-C7-O4-C6
10	B	136	PE8	C5-C6-O7-C8
5	A	304	GOL	C1-C2-C3-O3
10	B	136	PE8	C24-C23-O22-C21
7	C	324	PG4	O1-C1-C2-O2
10	A	343	PE8	C15-C14-O13-C12
5	D	107	GOL	O2-C2-C3-O3
7	B	123	PG4	C1-C2-O2-C3
7	C	302	PG4	O3-C5-C6-O4
7	A	322	PG4	C8-C7-O4-C6
7	B	116	PG4	C5-C6-O4-C7
9	A	370	PEG	C1-C2-O2-C3
7	E	105	PG4	O2-C3-C4-O3
10	C	335	PE8	C11-C12-O13-C14
10	F	102	PE8	O13-C14-C15-O16
9	A	335	PEG	O1-C1-C2-O2
7	A	352	PG4	C4-C3-O2-C2
10	A	344	PE8	C5-C6-O7-C8
9	D	105	PEG	C1-C2-O2-C3
10	E	110	PE8	C12-C11-O10-C9
7	A	321	PG4	O2-C3-C4-O3
7	A	326	PG4	C3-C4-O3-C5
10	B	102	PE8	O19-C20-C21-O22
7	A	321	PG4	C3-C4-O3-C5
9	D	127	PEG	C1-C2-O2-C3
10	B	136	PE8	C20-C21-O22-C23

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Mol	Chain	Res	Type	Atoms
5	A	301	GOL	O1-C1-C2-O2
5	D	108	GOL	O1-C1-C2-O2
5	D	112	GOL	O1-C1-C2-O2
7	B	117	PG4	C8-C7-O4-C6
7	B	122	PG4	C8-C7-O4-C6
7	D	116	PG4	C5-C6-O4-C7
9	A	332	PEG	C4-C3-O2-C2
7	F	101	PG4	O3-C5-C6-O4
10	A	344	PE8	C17-C18-O19-C20
9	B	129	PEG	C4-C3-O2-C2
7	A	367	PG4	C1-C2-O2-C3
5	A	362	GOL	C1-C2-C3-O3
5	B	152	GOL	O1-C1-C2-C3
5	C	307	GOL	C1-C2-C3-O3
7	A	352	PG4	O4-C7-C8-O5
7	B	122	PG4	O1-C1-C2-O2
7	D	117	PG4	O4-C7-C8-O5
9	A	341	PEG	O1-C1-C2-O2
7	B	155	PG4	C5-C6-O4-C7
7	C	324	PG4	O2-C3-C4-O3
7	A	323	PG4	C6-C5-O3-C4
7	C	321	PG4	C1-C2-O2-C3
7	C	321	PG4	C8-C7-O4-C6
10	B	138	PE8	C11-C12-O13-C14
10	F	106	PE8	C2-C3-O4-C5
10	C	335	PE8	C2-C3-O4-C5
10	B	138	PE8	O4-C5-C6-O7
9	A	372	PEG	O2-C3-C4-O4
10	F	106	PE8	C18-C17-O16-C15
10	A	343	PE8	O13-C14-C15-O16
7	A	321	PG4	C8-C7-O4-C6
7	C	322	PG4	O2-C3-C4-O3
7	D	116	PG4	O3-C5-C6-O4
5	A	301	GOL	O2-C2-C3-O3
5	A	303	GOL	O2-C2-C3-O3
7	B	155	PG4	C1-C2-O2-C3
7	A	368	PG4	C5-C6-O4-C7
10	B	136	PE8	C14-C15-O16-C17
7	A	368	PG4	C3-C4-O3-C5
10	B	102	PE8	C24-C23-O22-C21
10	B	137	PE8	O19-C20-C21-O22
7	D	103	PG4	C5-C6-O4-C7

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Mol	Chain	Res	Type	Atoms
10	A	342	PE8	C11-C12-O13-C14

There are no ring outliers.

54 monomers are involved in 64 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	A	325	PG4	2	0
10	A	342	PE8	2	0
9	C	333	PEG	1	0
9	A	336	PEG	1	0
7	F	105	PG4	1	0
7	D	119	PG4	1	0
9	A	329	PEG	1	0
7	B	101	PG4	1	0
9	A	341	PEG	1	0
11	D	102	EDO	2	0
7	C	302	PG4	2	0
7	E	106	PG4	1	0
7	B	117	PG4	1	0
5	C	344	GOL	1	0
7	F	101	PG4	1	0
9	B	157	PEG	1	0
5	A	303	GOL	1	0
10	E	109	PE8	2	0
10	E	110	PE8	2	0
7	A	366	PG4	1	0
7	A	365	PG4	1	0
7	C	322	PG4	3	0
5	C	345	GOL	2	0
5	C	309	GOL	1	0
7	C	321	PG4	2	0
10	C	335	PE8	2	0
7	B	118	PG4	2	0
5	D	106	GOL	2	0
10	F	106	PE8	2	0
5	A	347	GOL	1	0
9	A	331	PEG	2	0
10	B	137	PE8	1	0
7	B	122	PG4	2	0
7	C	325	PG4	3	0
7	C	324	PG4	1	0
7	D	103	PG4	2	0

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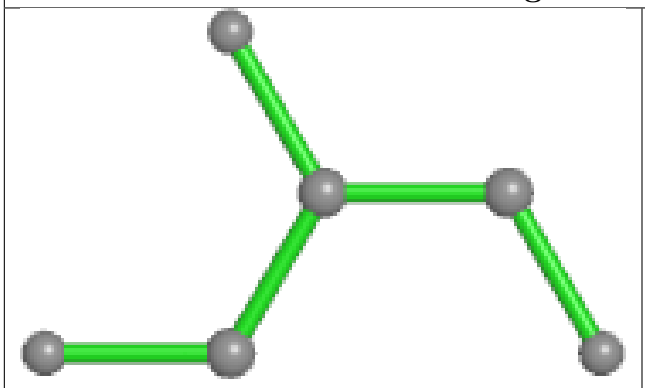
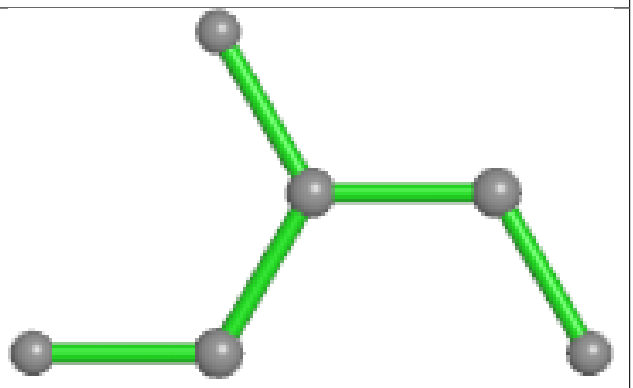
Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	B	136	PE8	3	0
9	C	331	PEG	1	0
10	F	102	PE8	2	0
5	B	140	GOL	2	0
5	D	108	GOL	1	0
5	A	310	GOL	1	0
5	A	363	GOL	1	0
7	B	155	PG4	1	0
7	B	125	PG4	1	0
5	E	113	GOL	1	0
7	A	323	PG4	1	0
5	C	338	GOL	1	0
9	B	130	PEG	1	0
7	C	323	PG4	2	0
10	B	138	PE8	2	0
7	E	115	PG4	1	0
7	C	320	PG4	2	0
5	E	103	GOL	1	0

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

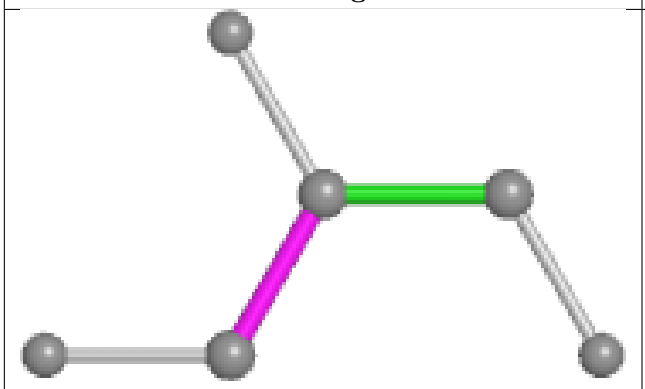
Ligand GOL C 347



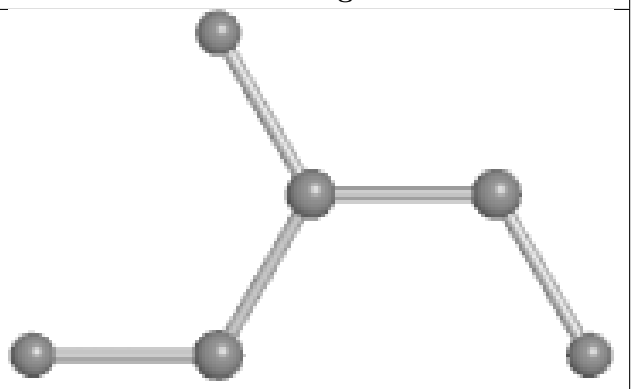
Bond lengths



Bond angles

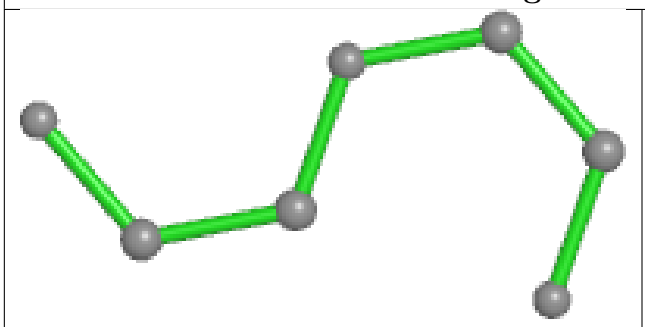


Torsions



Rings

Ligand PEG A 339



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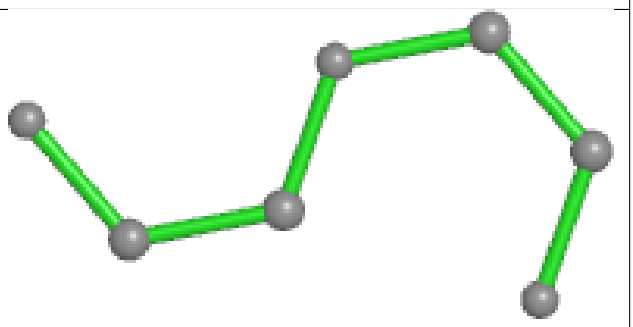
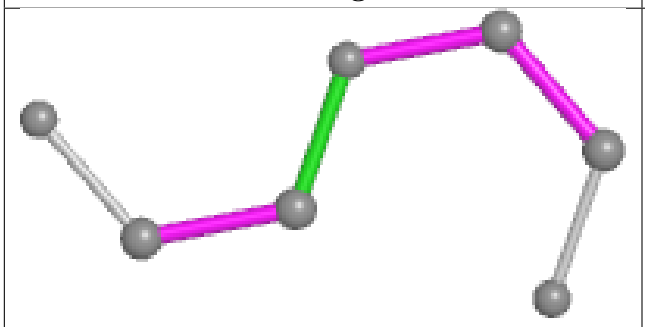
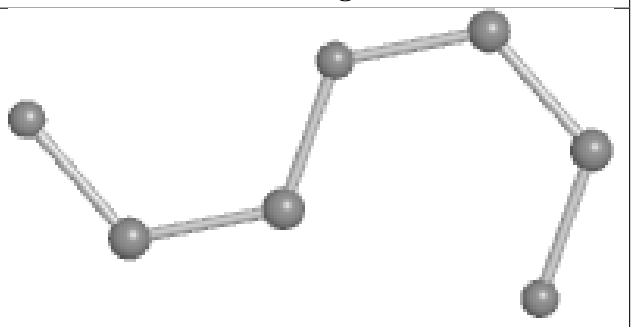


Bond angles

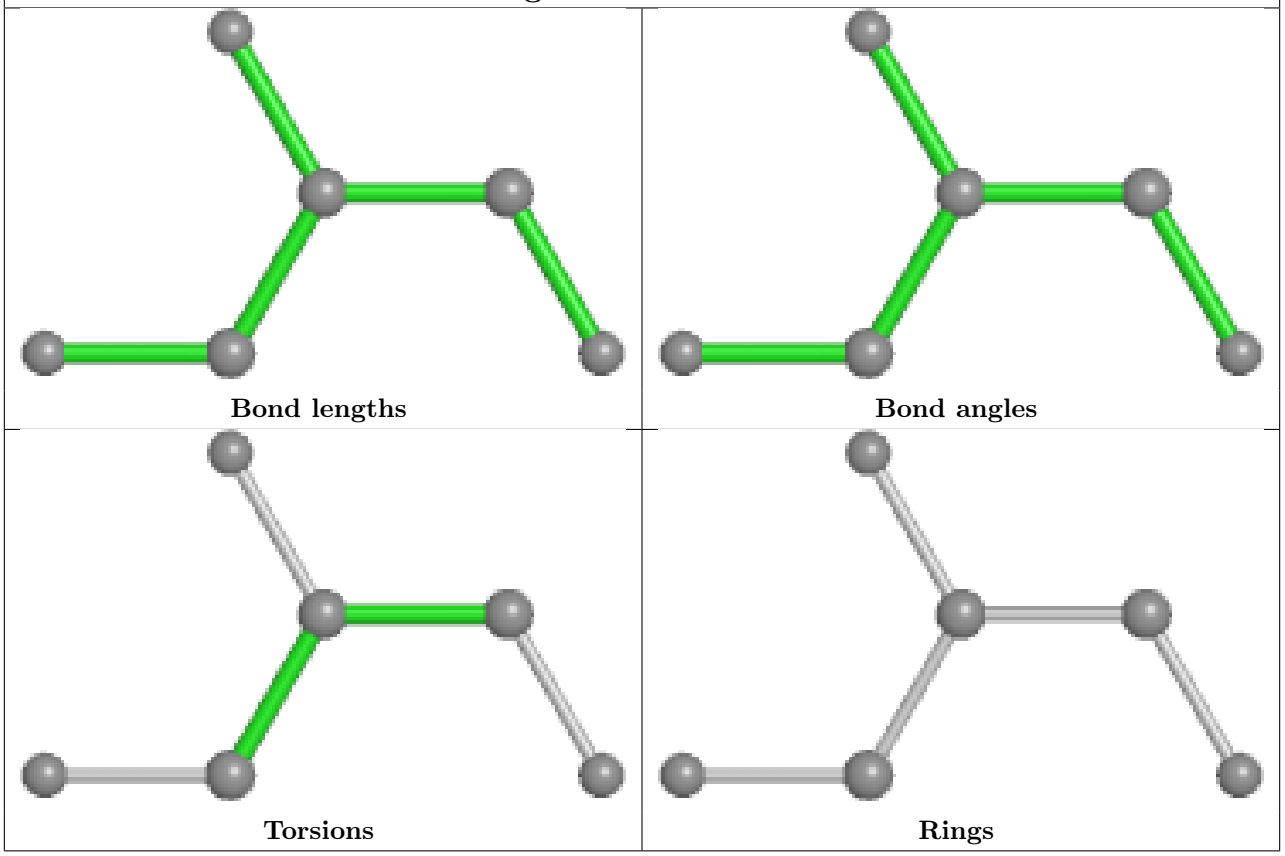


Torsions

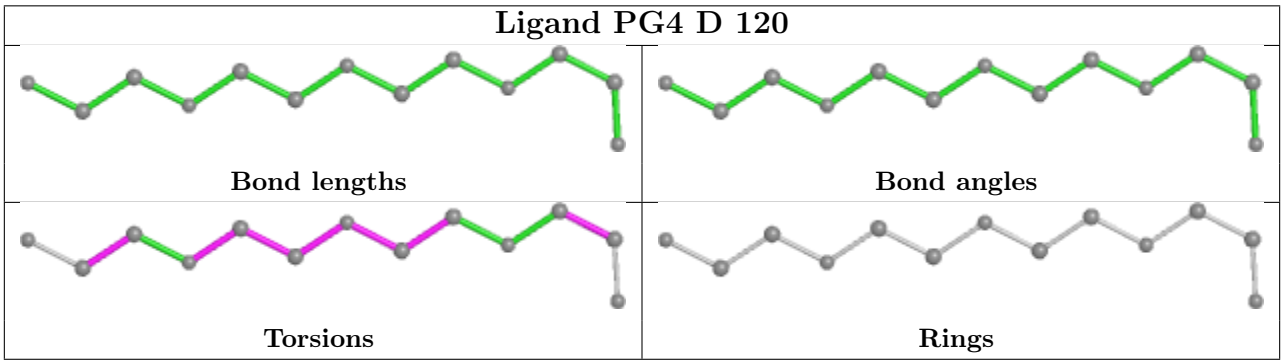


Rings

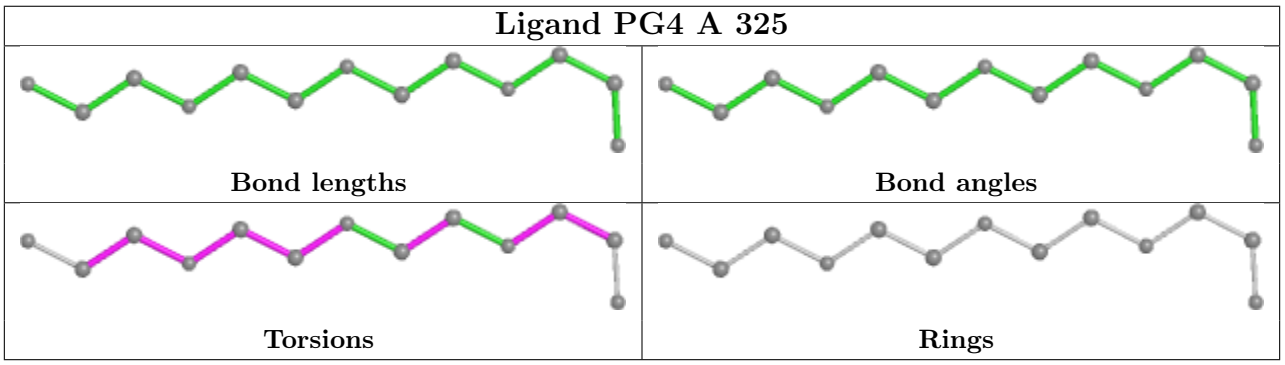
Ligand GOL B 107



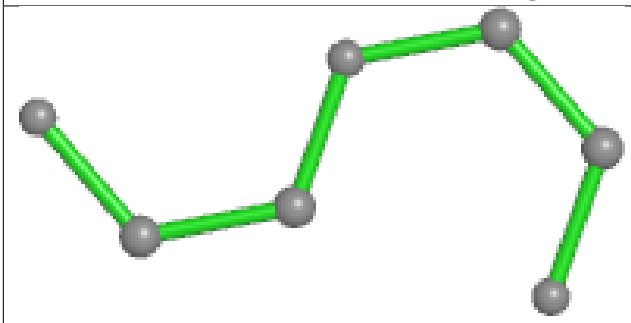
Ligand PG4 D 120



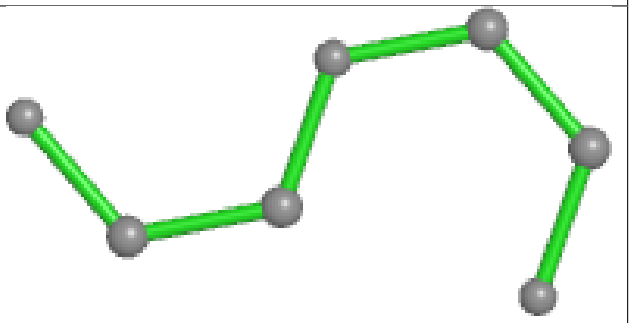
Ligand PG4 A 325



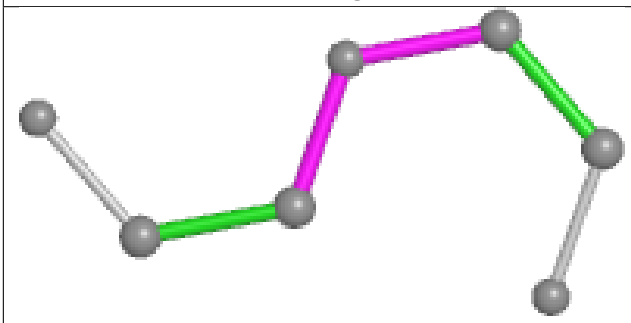
Ligand PEG B 131



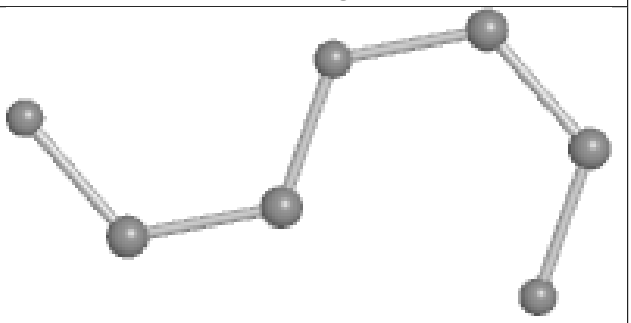
Bond lengths



Bond angles

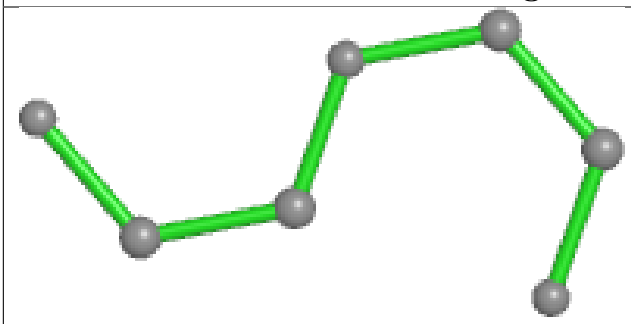


Torsions

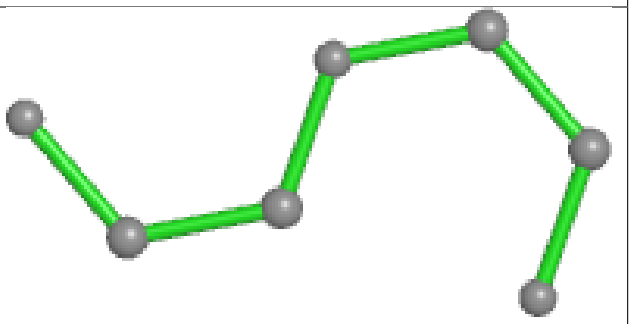


Rings

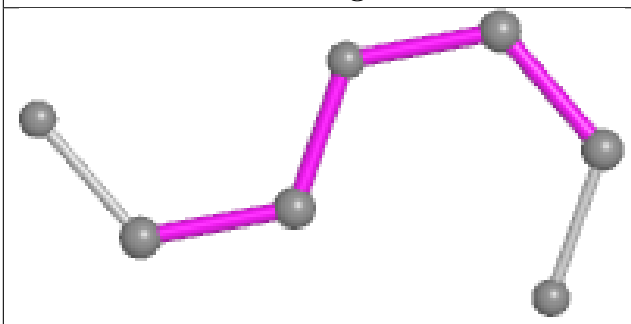
Ligand PEG A 340



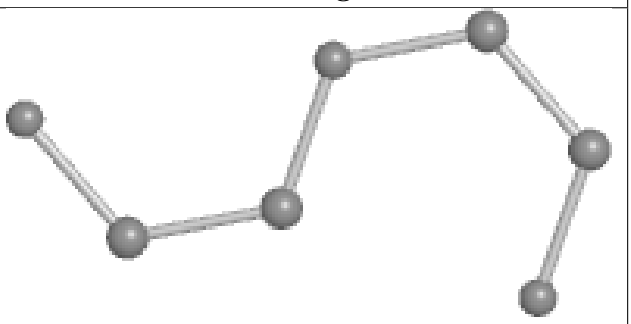
Bond lengths



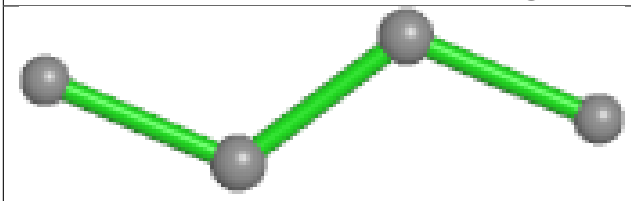
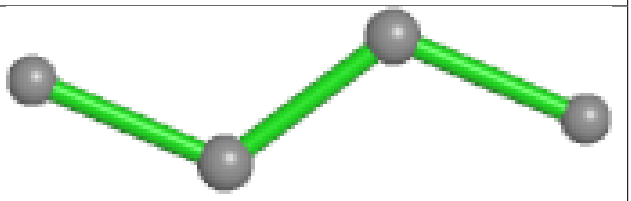
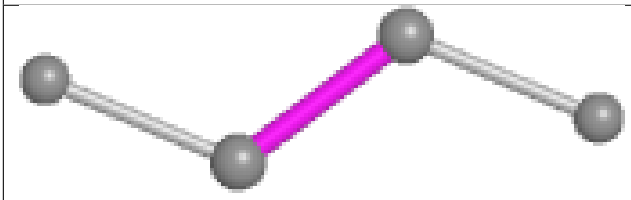
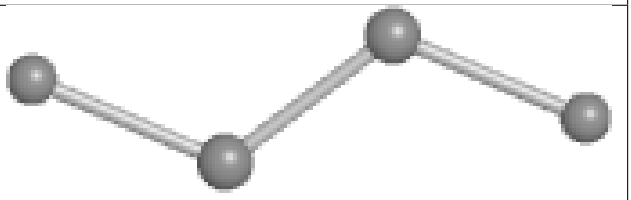
Bond angles

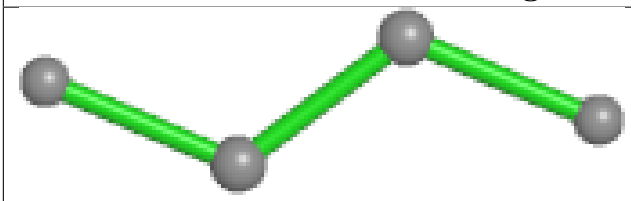
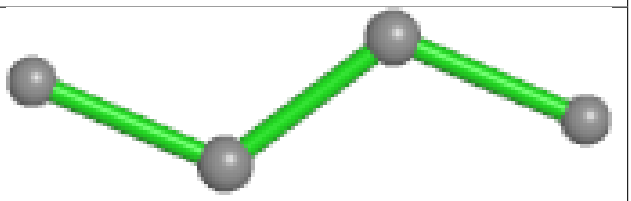
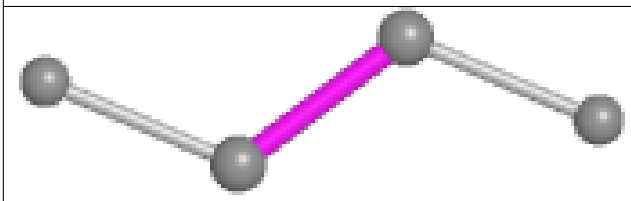
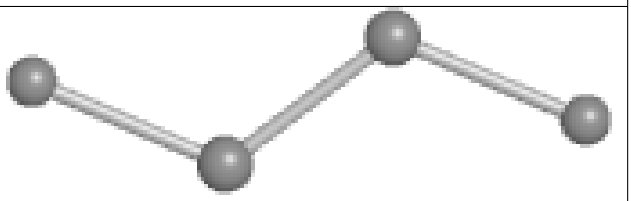


Torsions

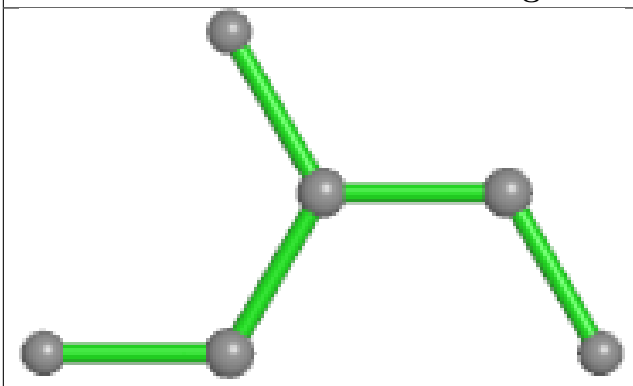


Rings

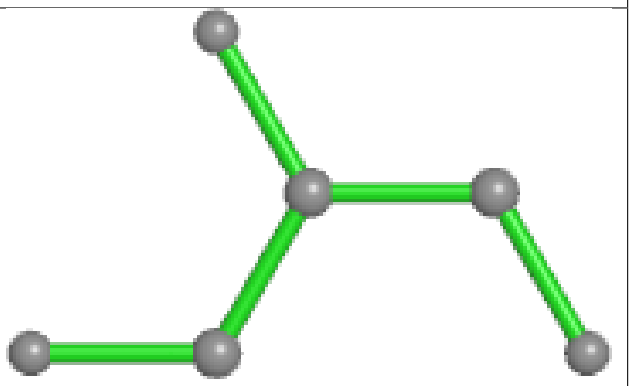
Ligand EDO B 144	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand EDO A 351	
 Bond lengths	 Bond angles
 Torsions	 Rings

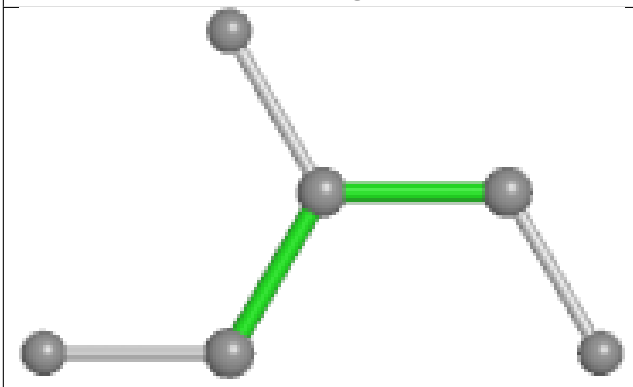
Ligand GOL A 313



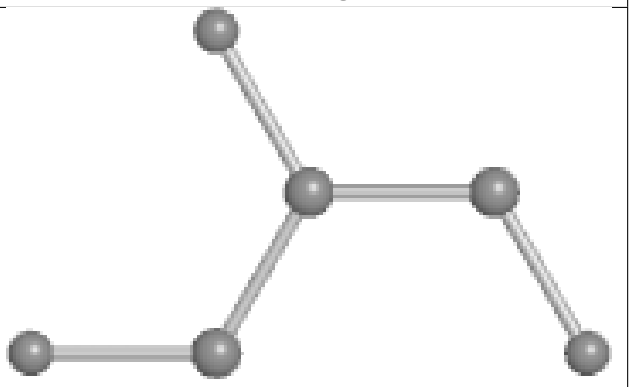
Bond lengths



Bond angles

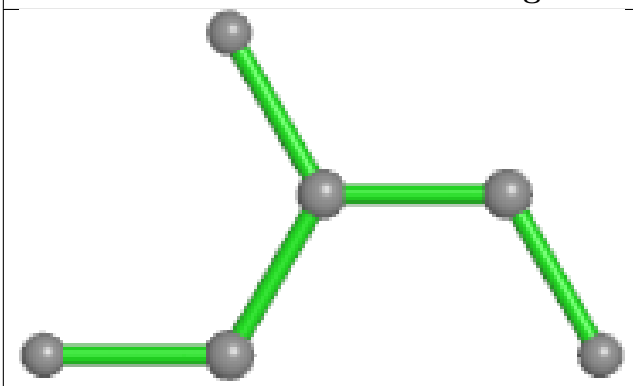


Torsions



Rings

Ligand GOL C 306



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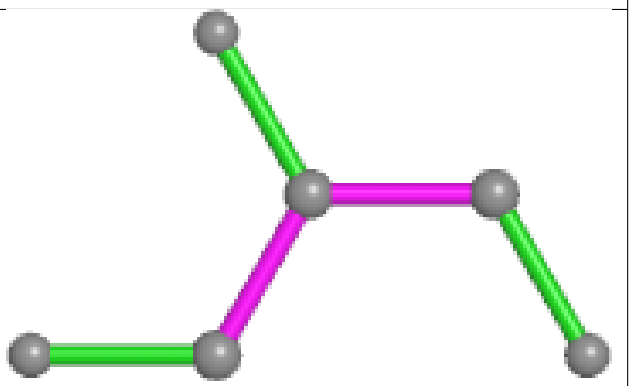
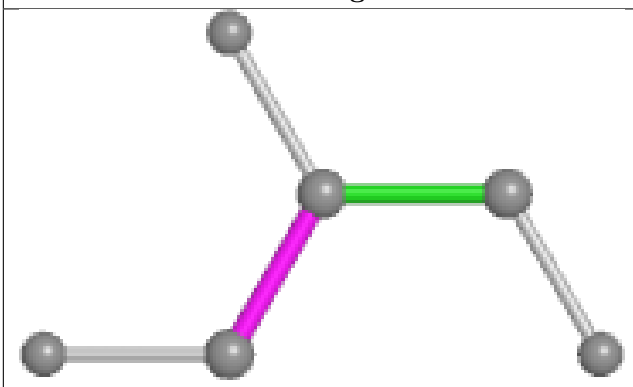


Bond angles



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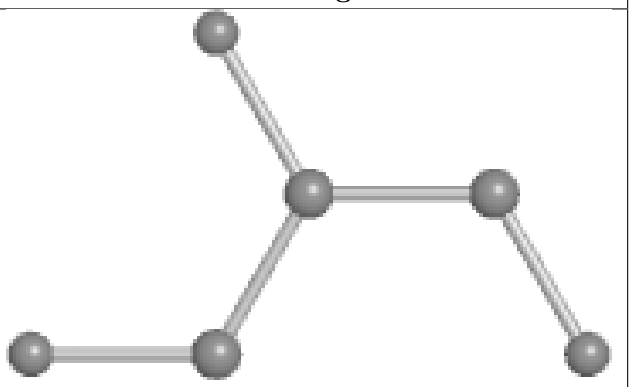
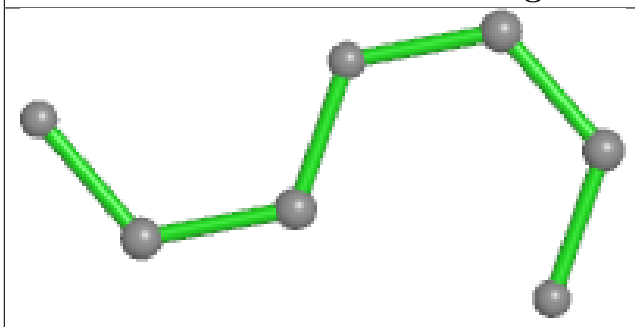


Rings

Ligand PEG C 339



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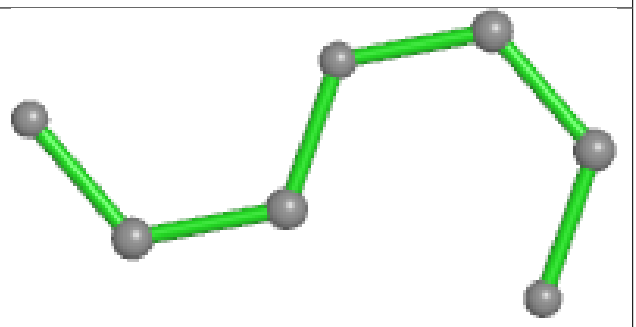
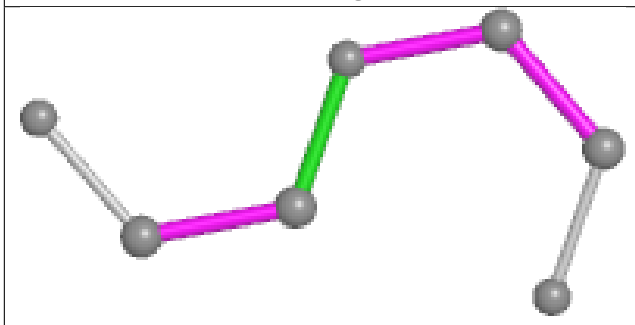


Bond angles



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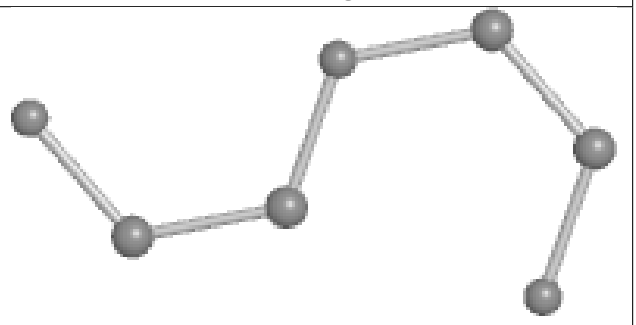
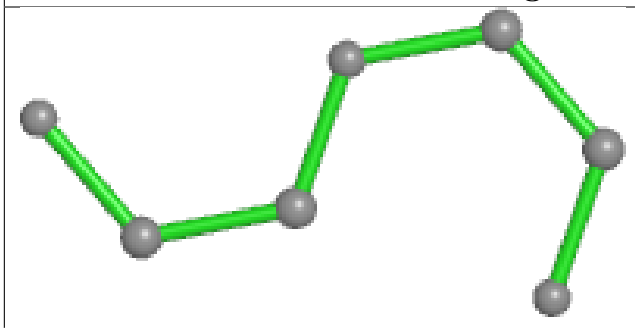


Rings

Ligand PEG A 330



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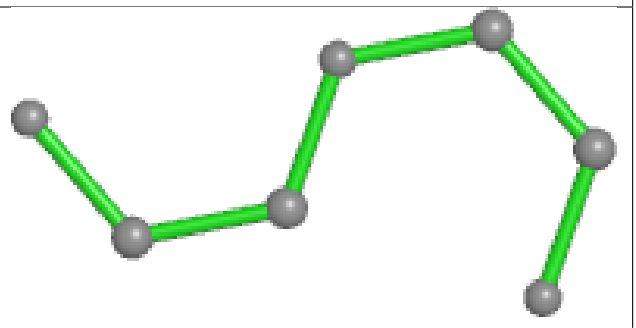
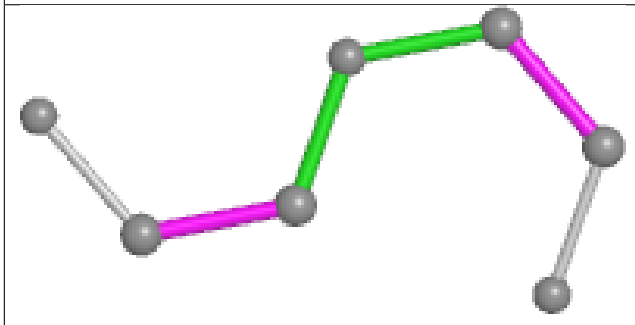


Bond angles



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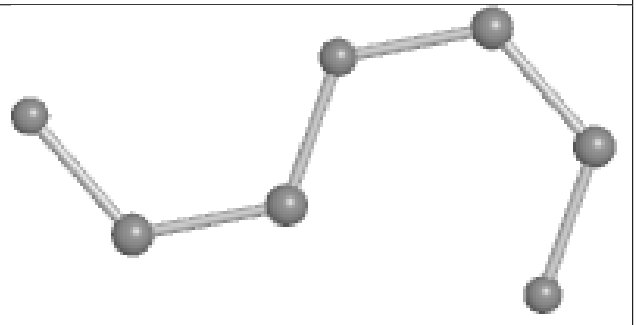
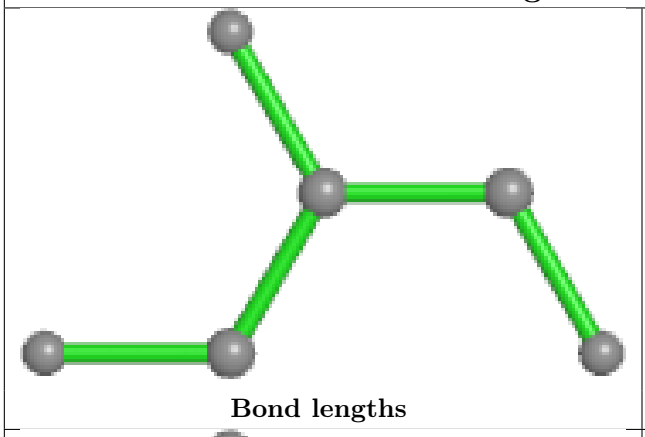


Rings

Ligand GOL A 312



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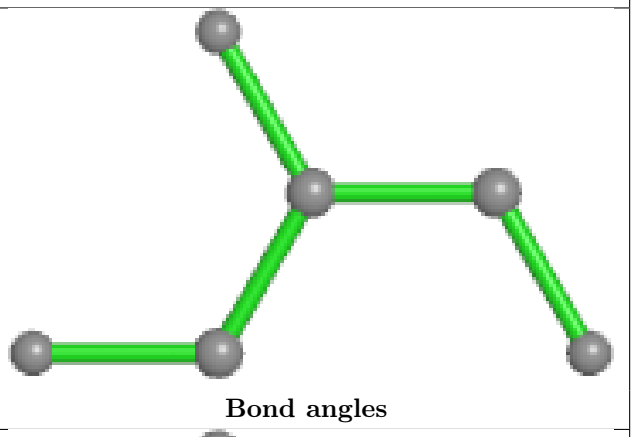
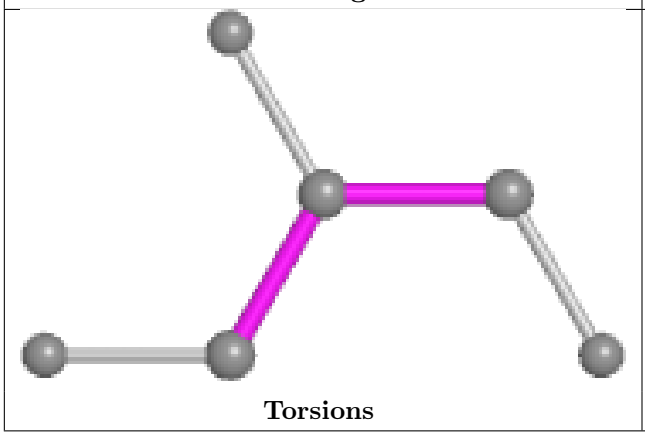


Bond angles



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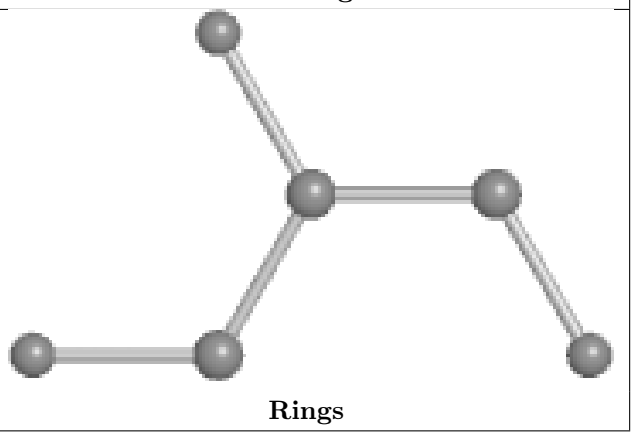
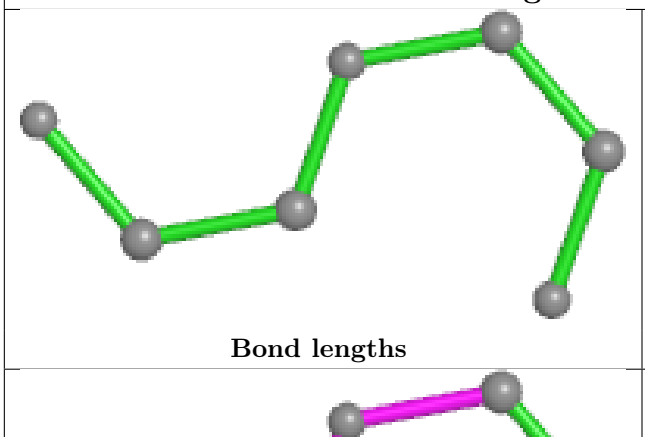


Rings

Ligand PEG D 127



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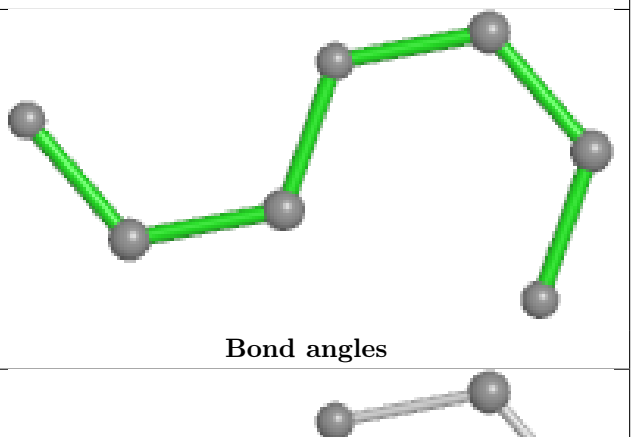
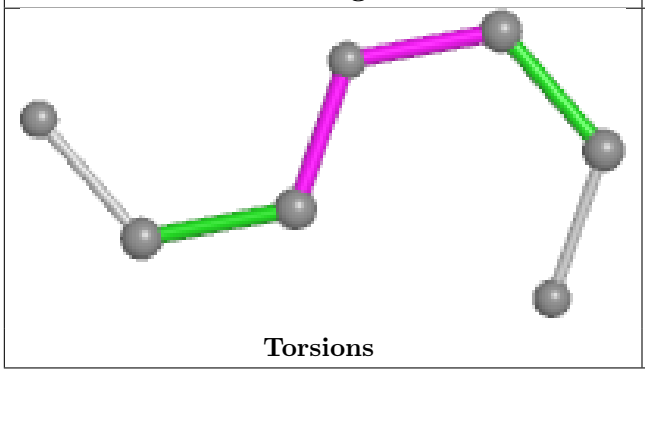


Bond angles



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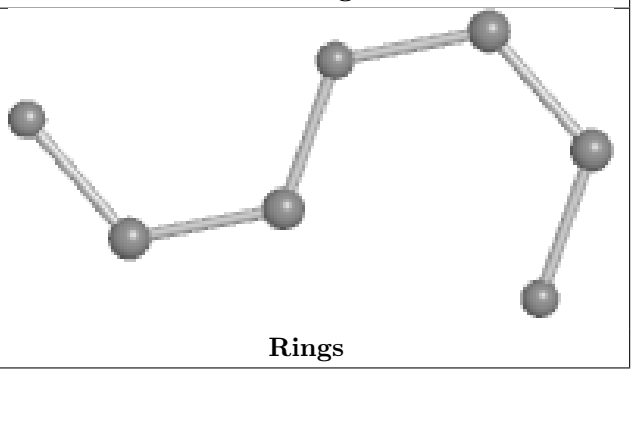
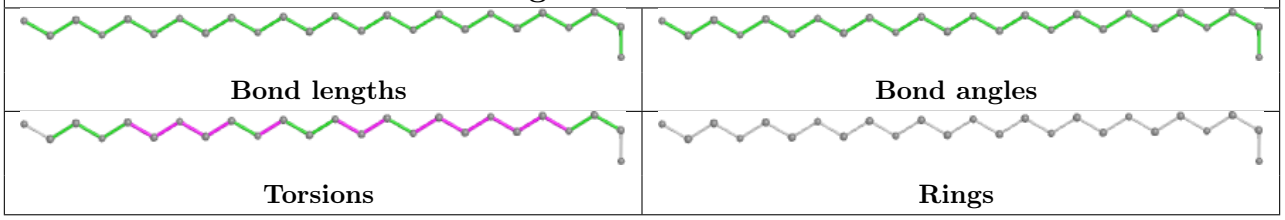
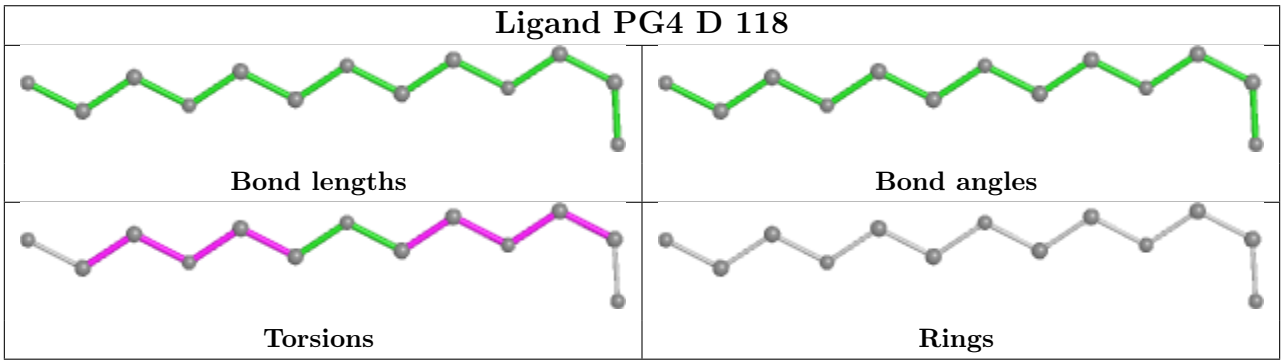


Rings

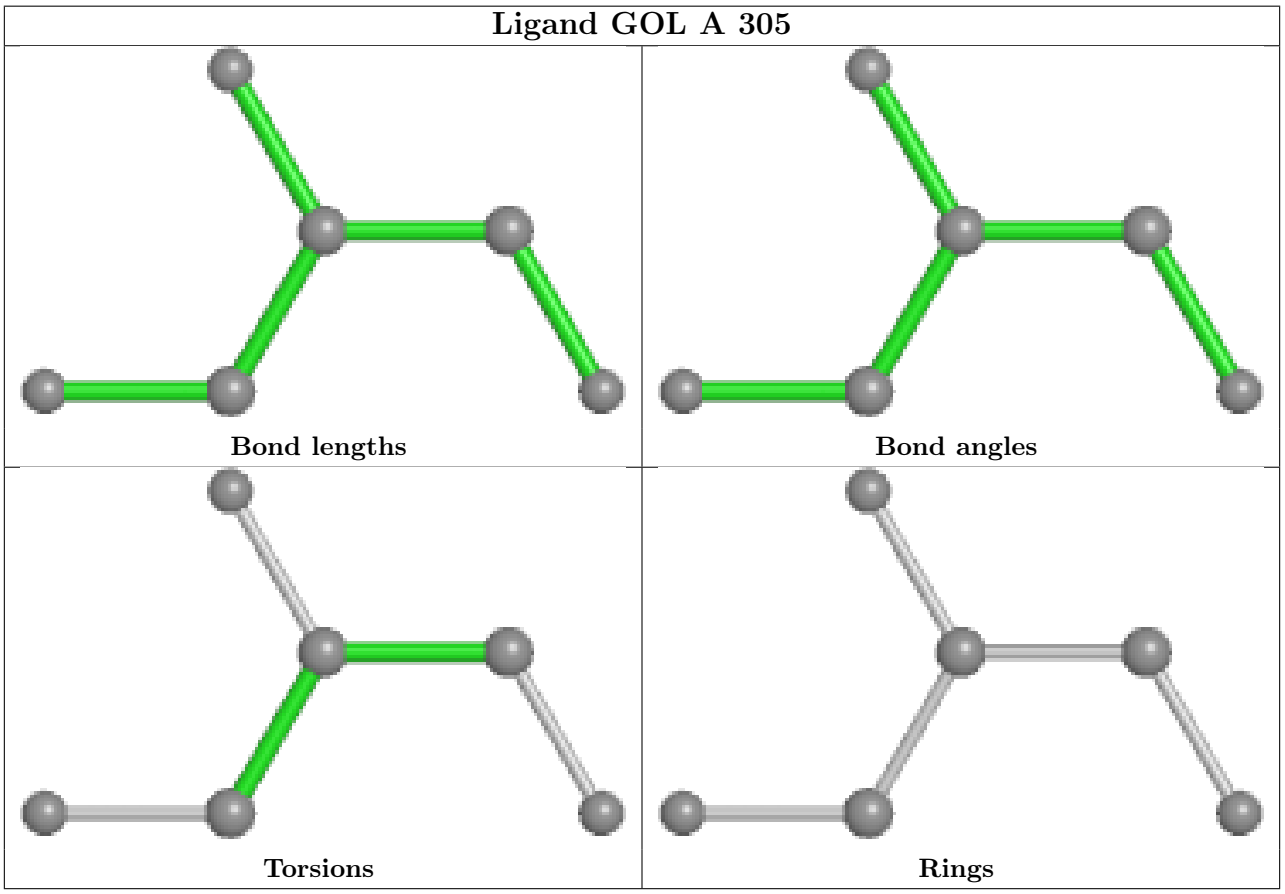
Ligand PE8 A 342



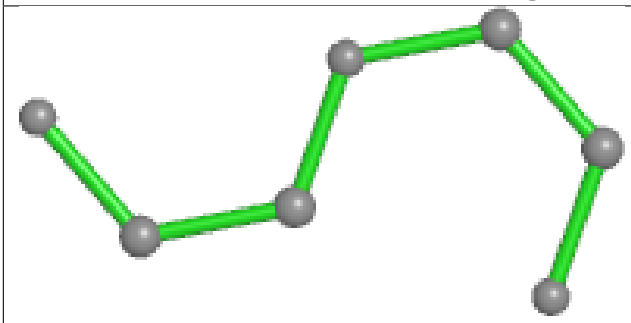
Ligand PG4 D 118



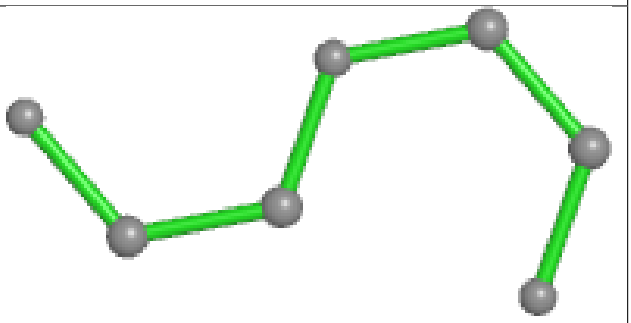
Ligand GOL A 305



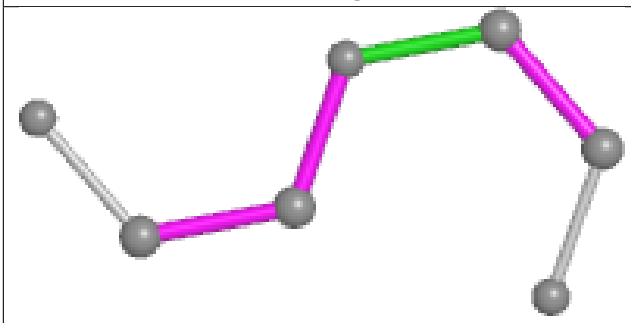
Ligand PEG B 132



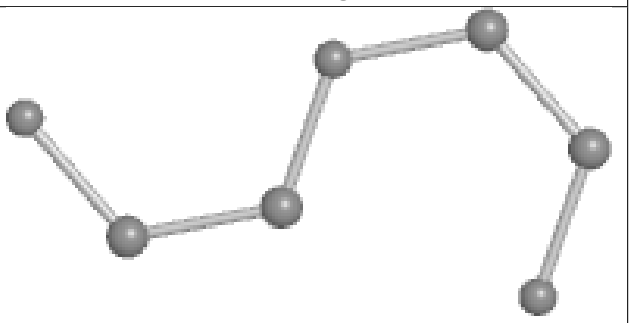
Bond lengths



Bond angles

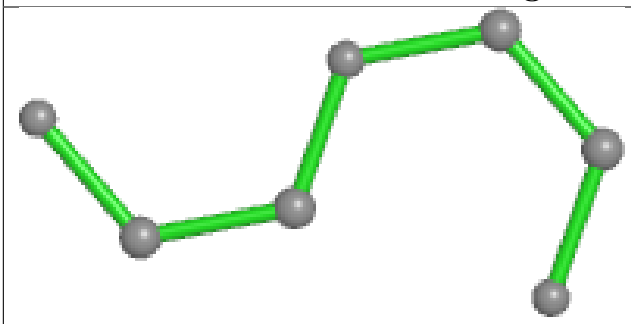


Torsions



Rings

Ligand PEG C 333



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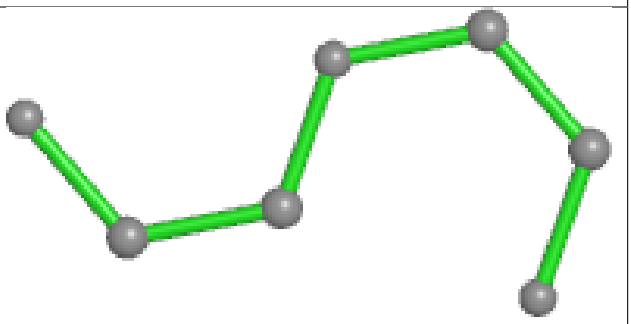
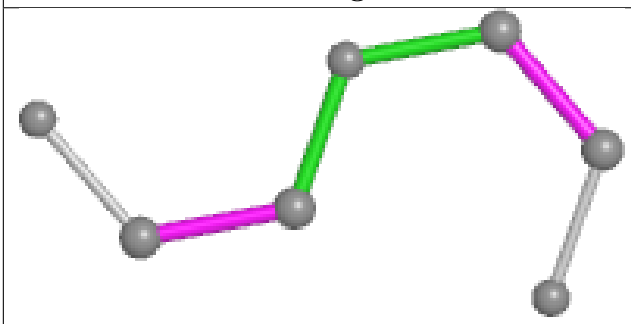


Bond angles



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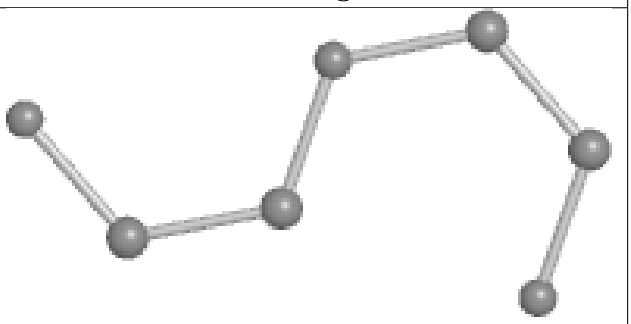
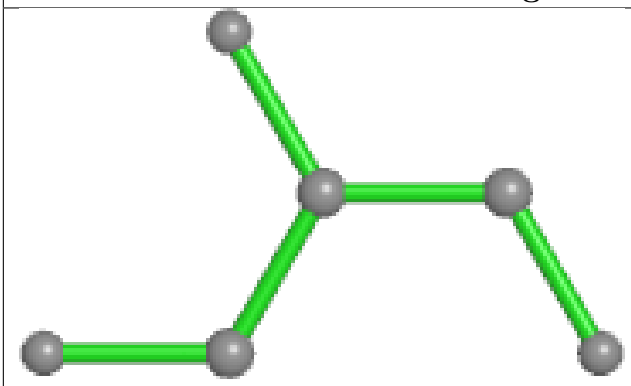


Rings

Ligand GOL A 362



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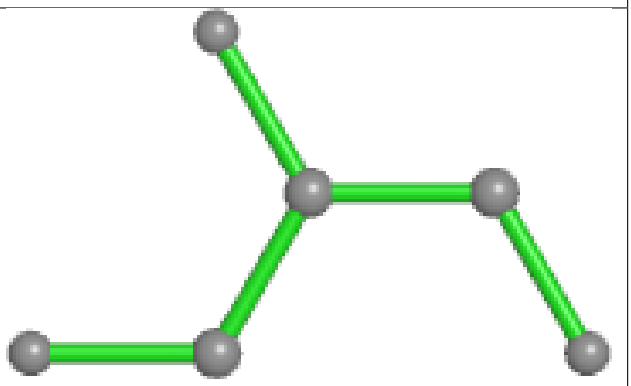
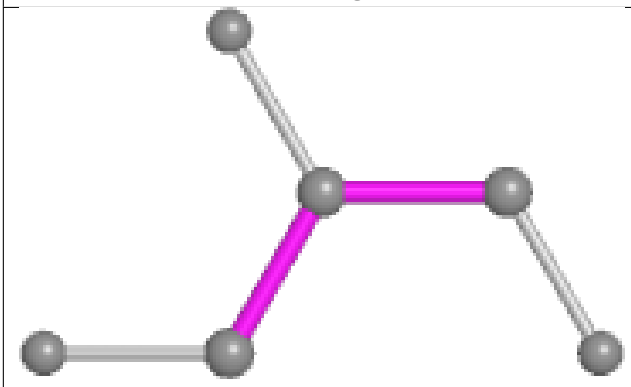


Bond angles



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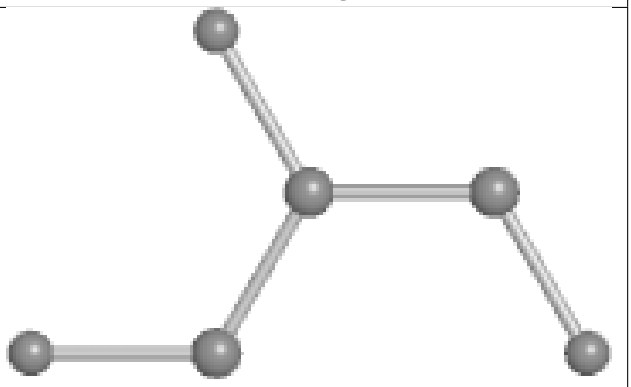
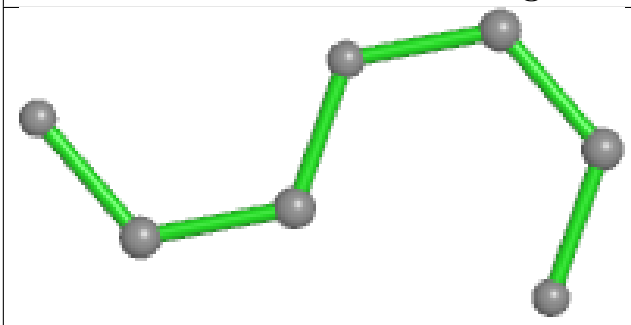
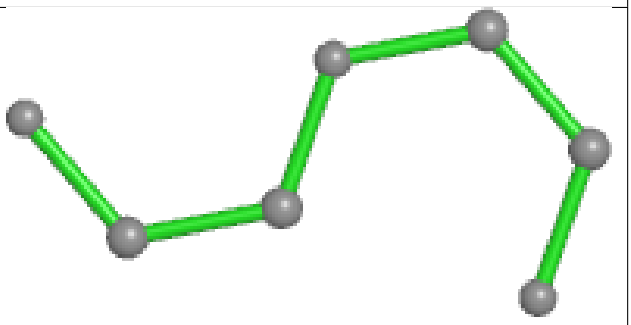


Rings

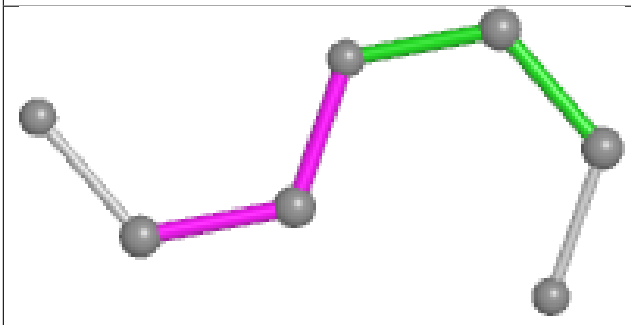
Ligand PEG D 123



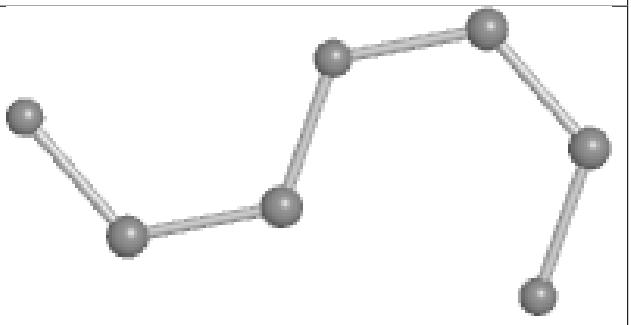
Bond lengths



Bond angles

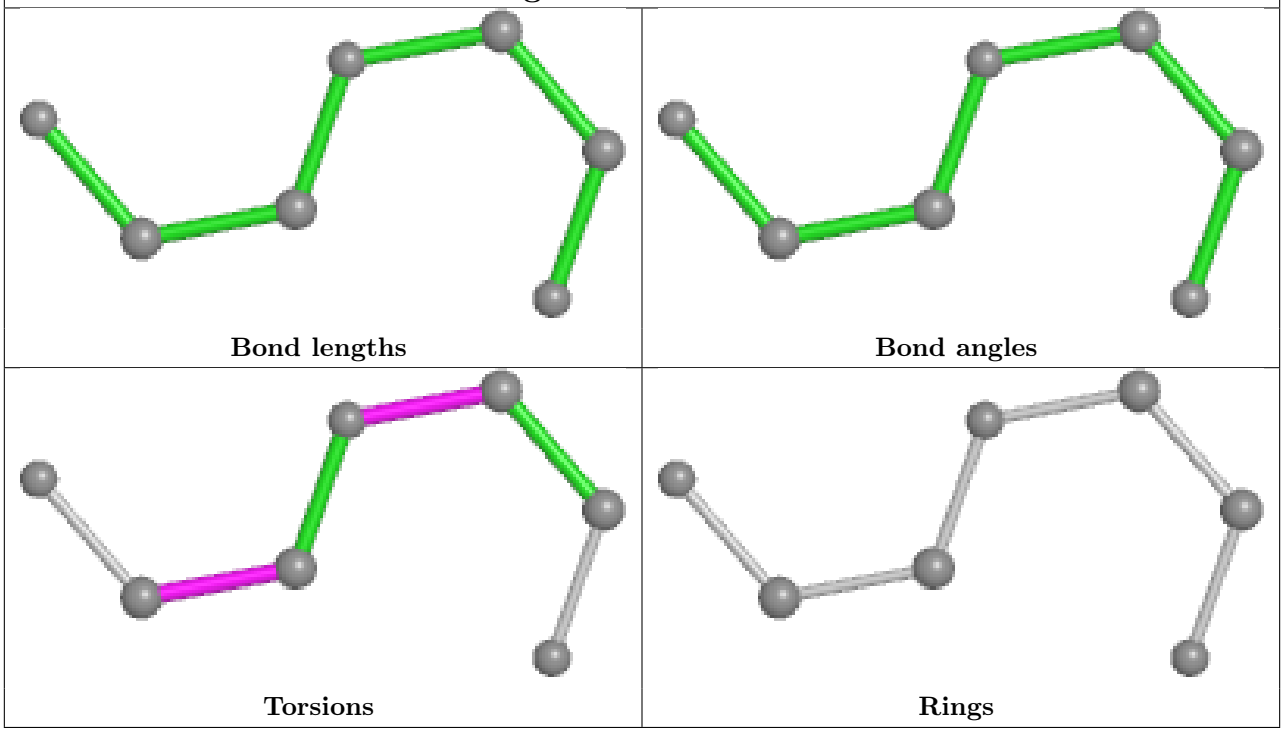


Torsions

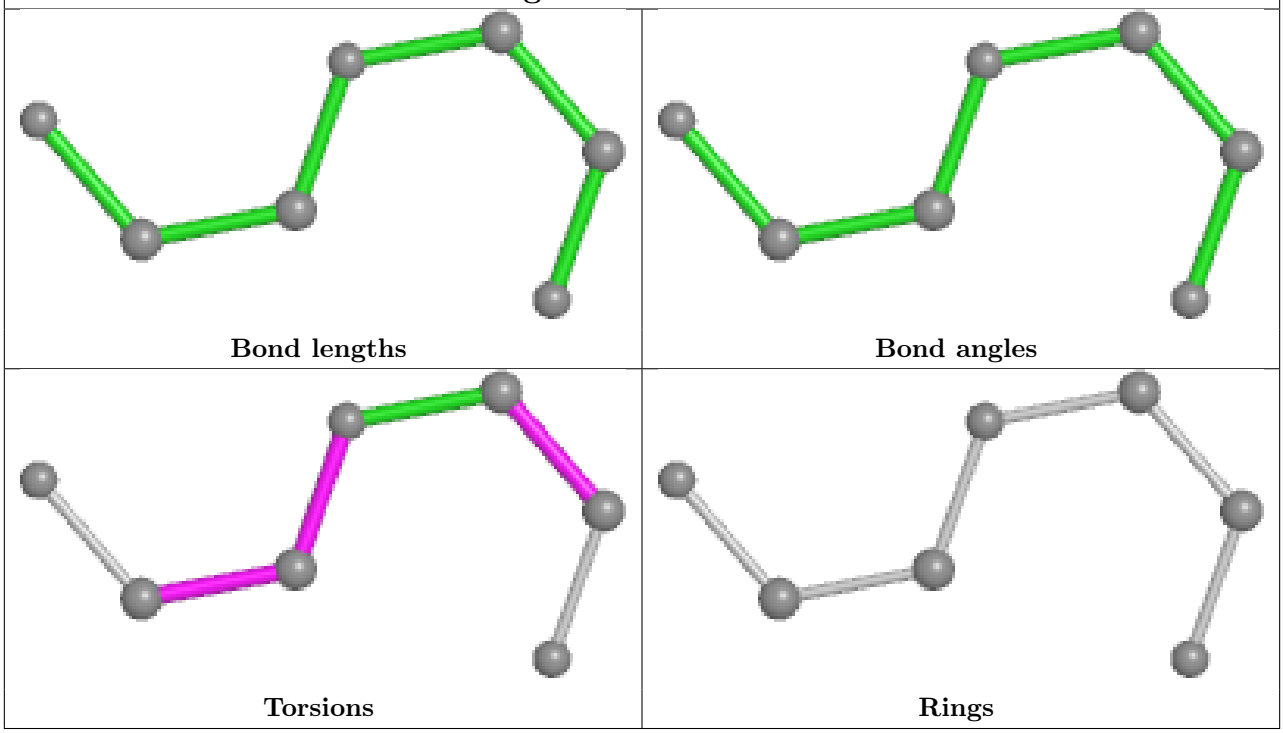


Rings

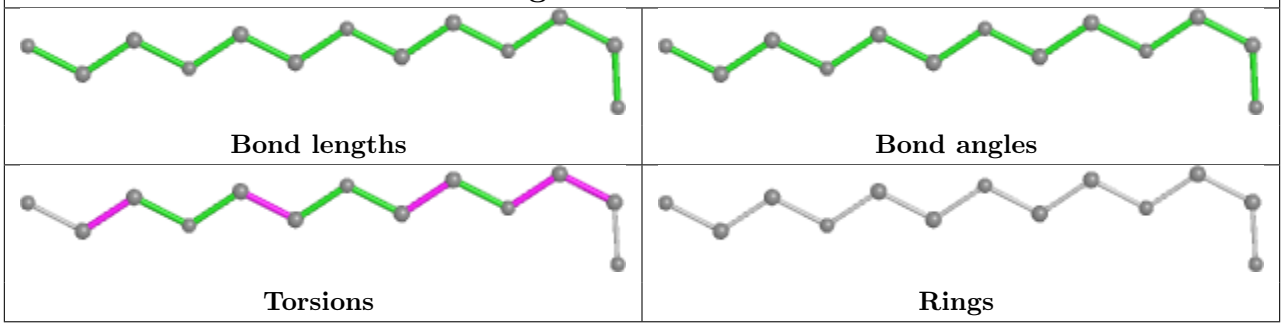
Ligand PEG A 336



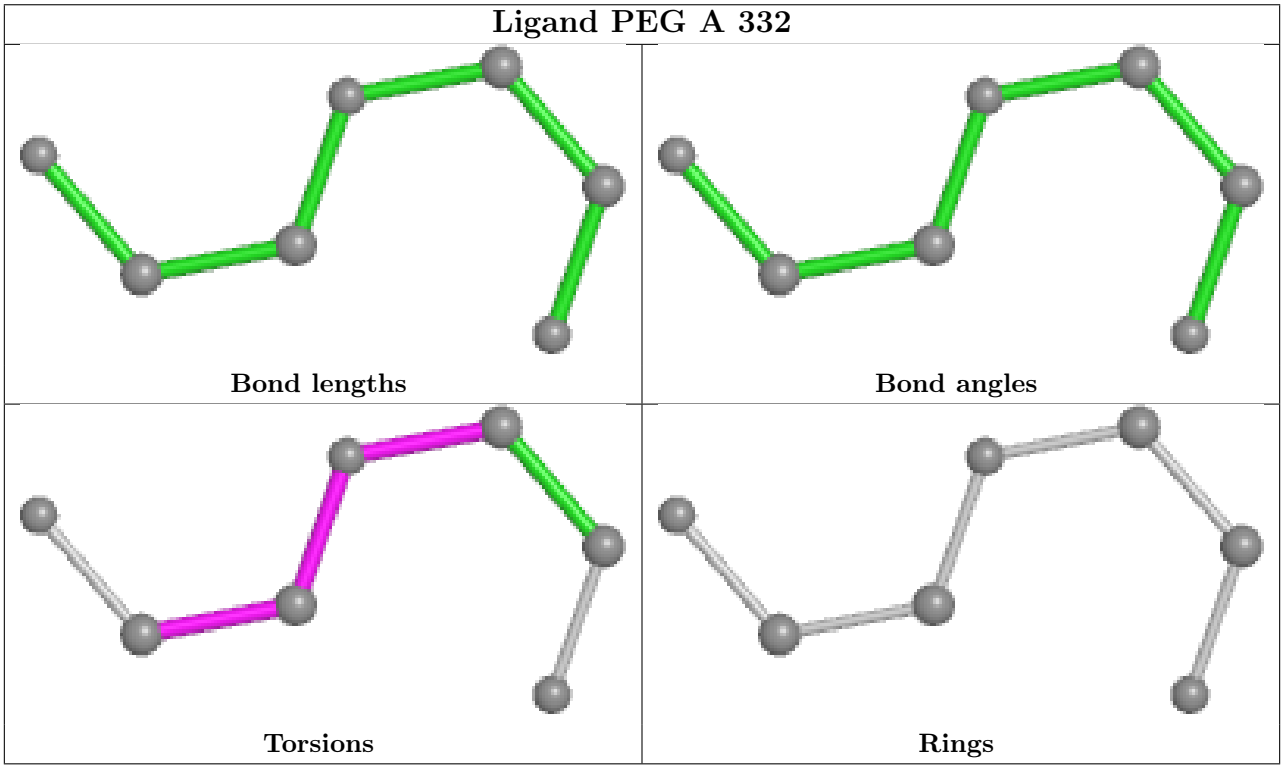
Ligand PEG D 105



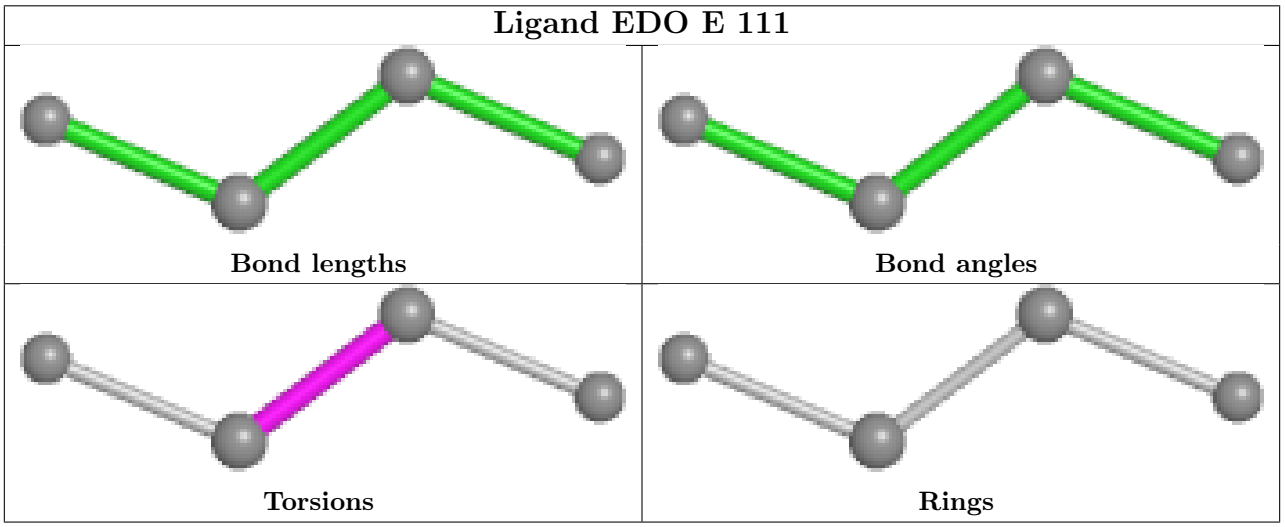
Ligand PG4 F 105



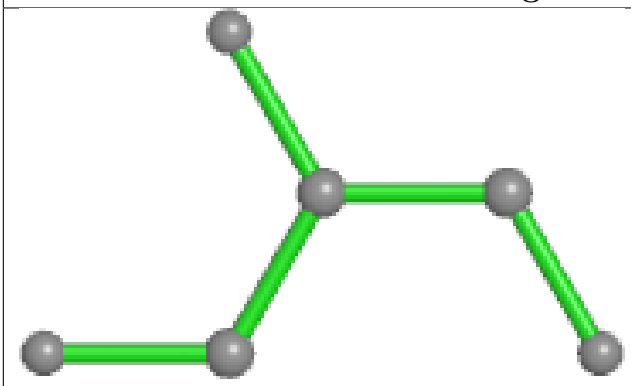
Ligand PEG A 332



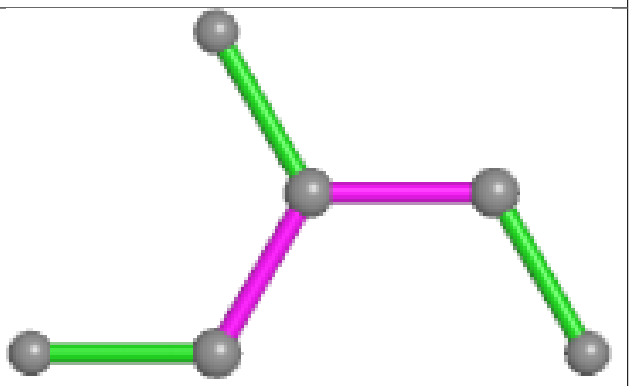
Ligand EDO E 111



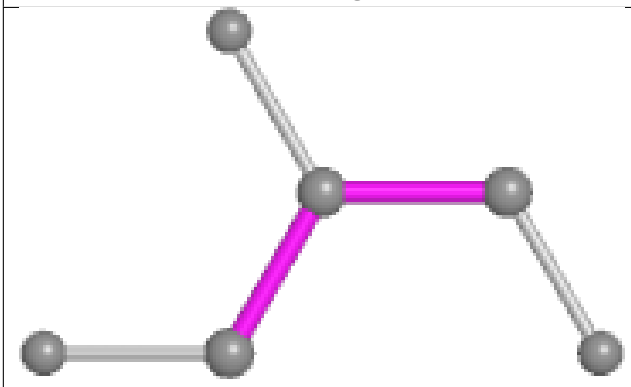
Ligand GOL D 131



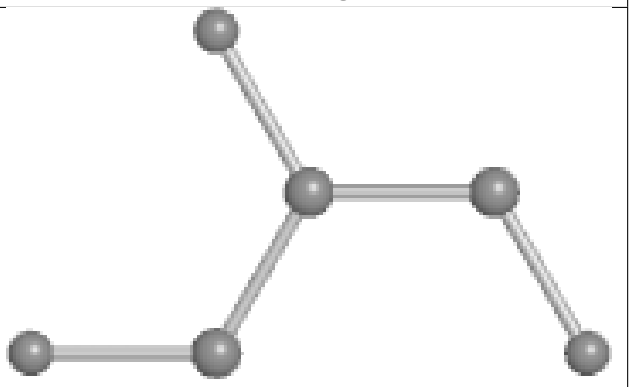
Bond lengths



Bond angles

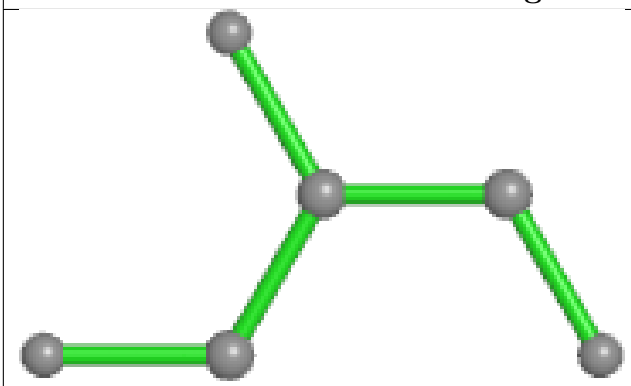


Torsions

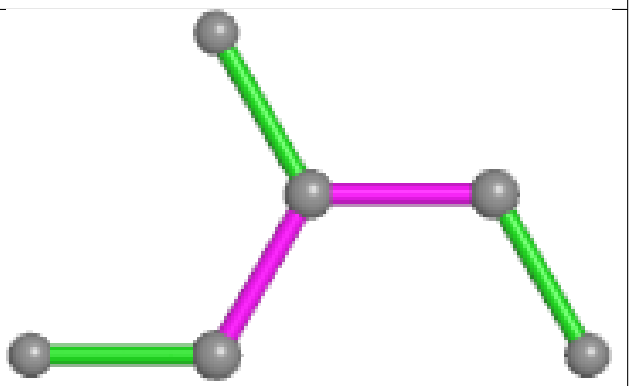


Rings

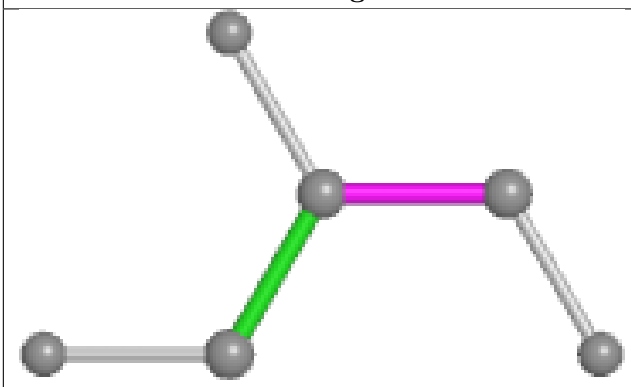
Ligand GOL E 104



Bond lengths



Bond angles



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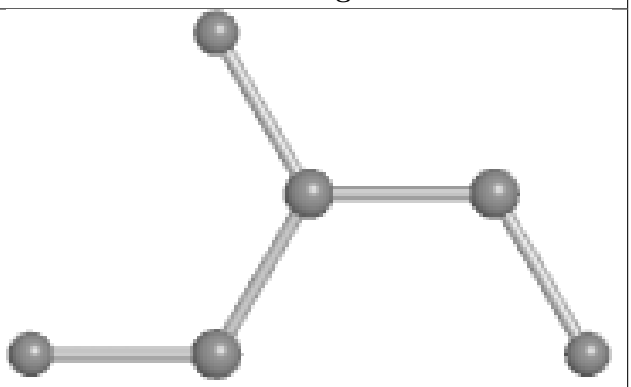
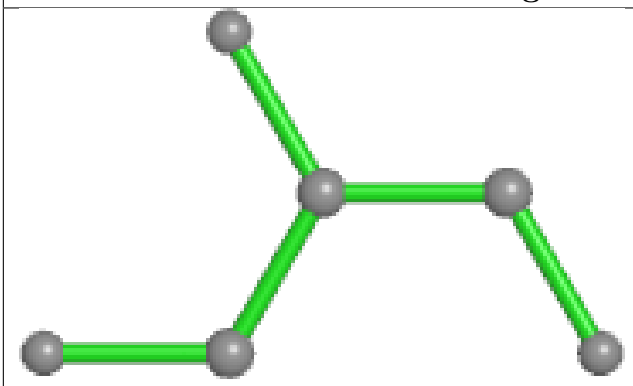
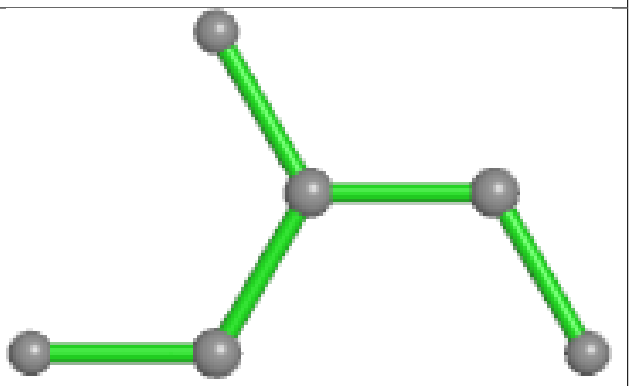


Rings

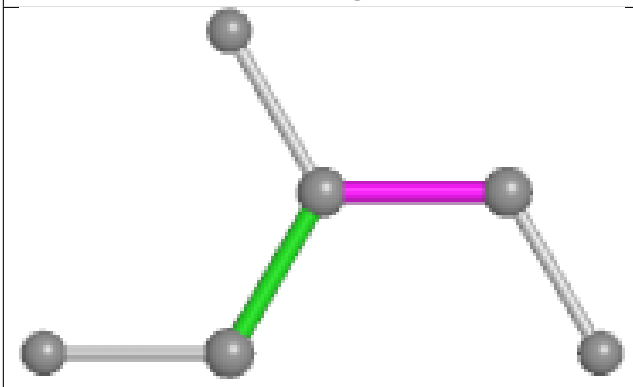
Ligand GOL D 111



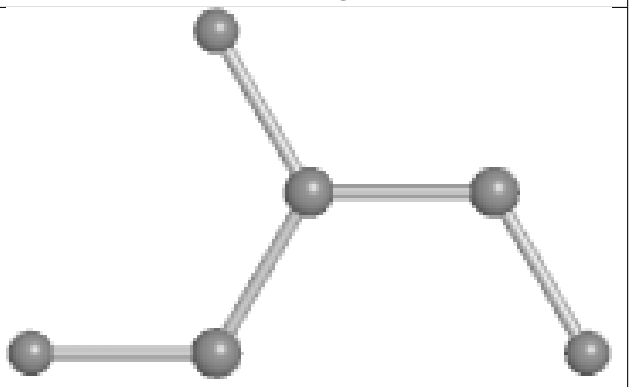
Bond lengths



Bond angles

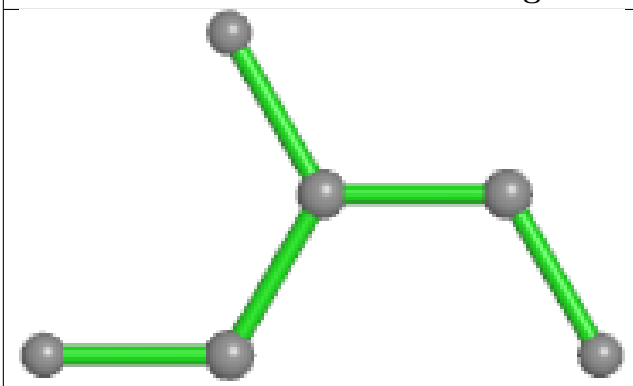


Torsions

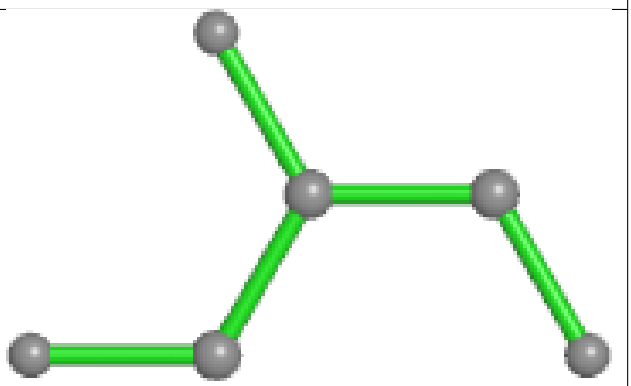


Rings

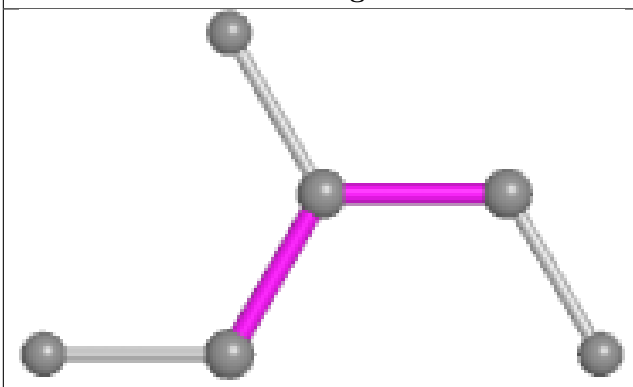
Ligand GOL C 314



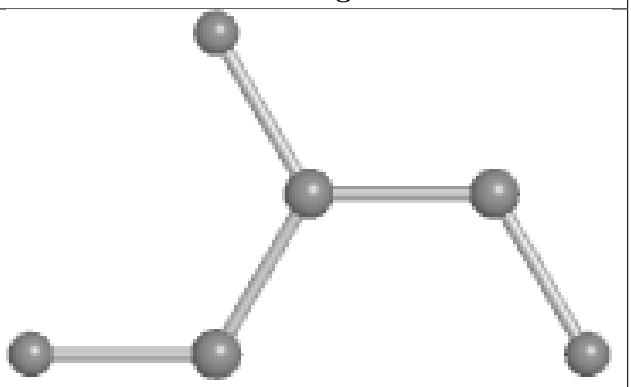
Bond lengths



Bond angles

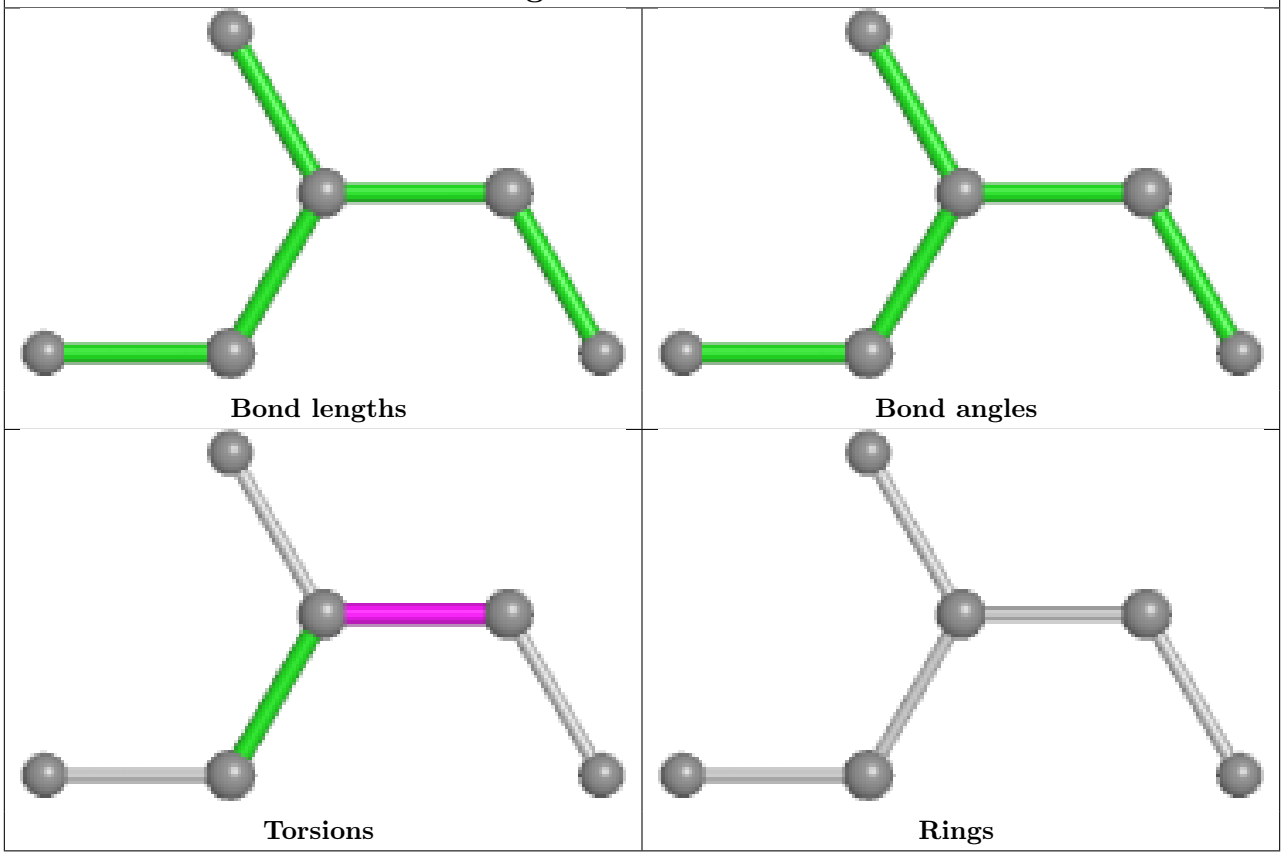


Torsions

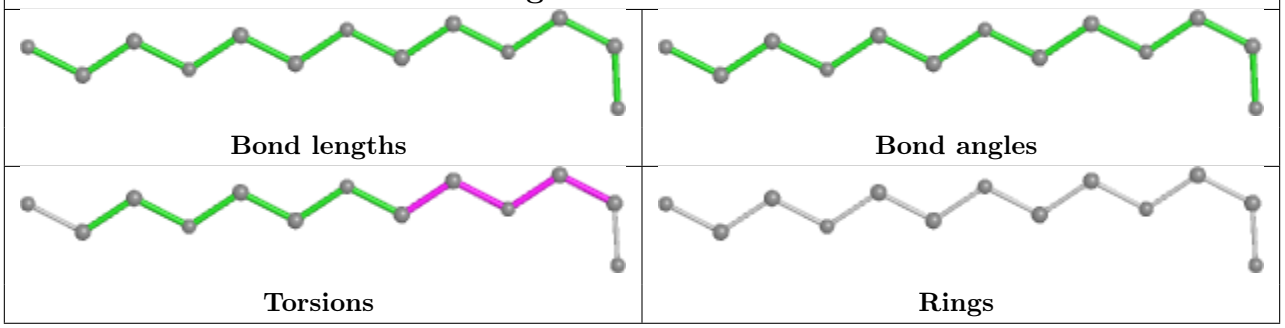


Rings

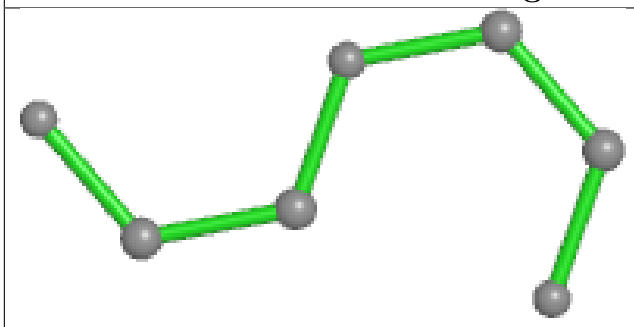
Ligand GOL F 103



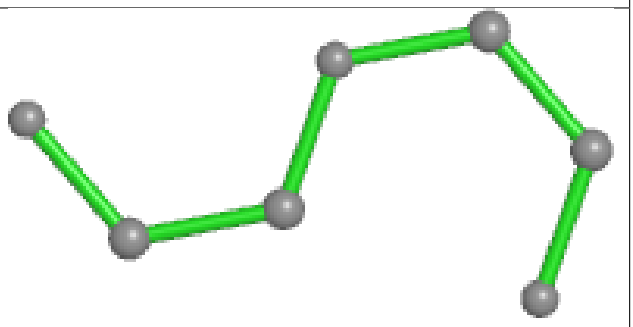
Ligand PG4 D 119



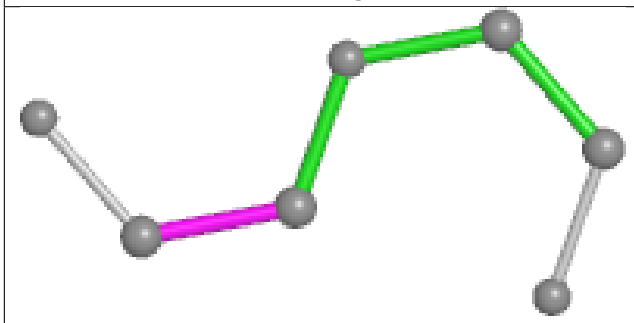
Ligand PEG A 329



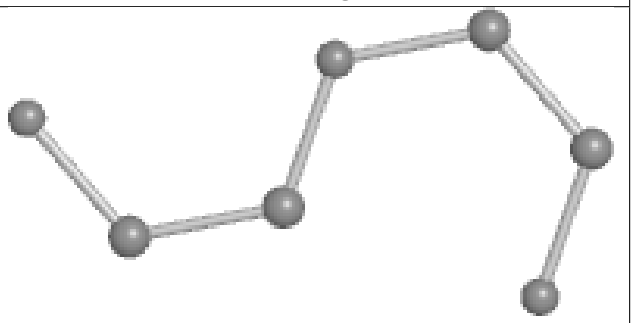
Bond lengths



Bond angles

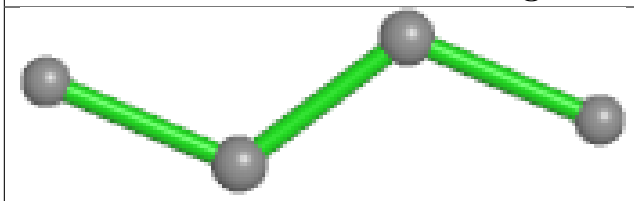


Torsions

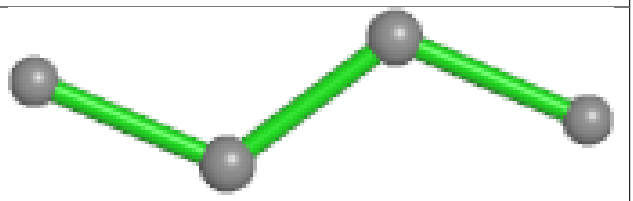


Rings

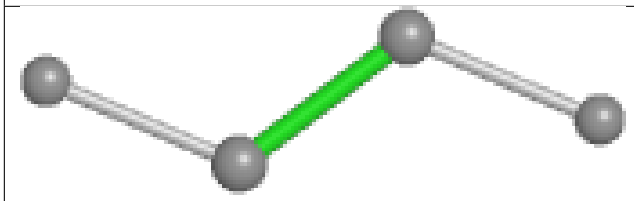
Ligand EDO D 101



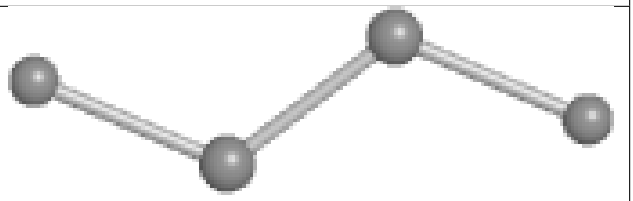
Bond lengths



Bond angles

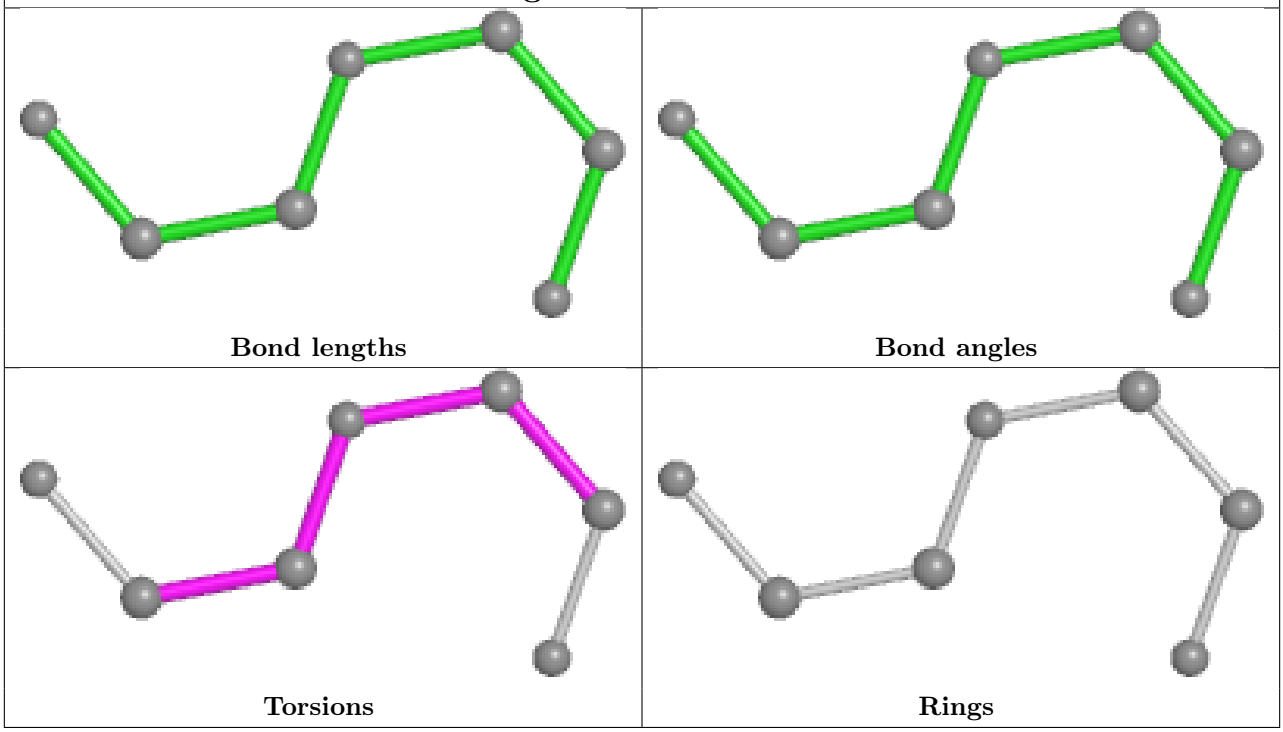


Torsions

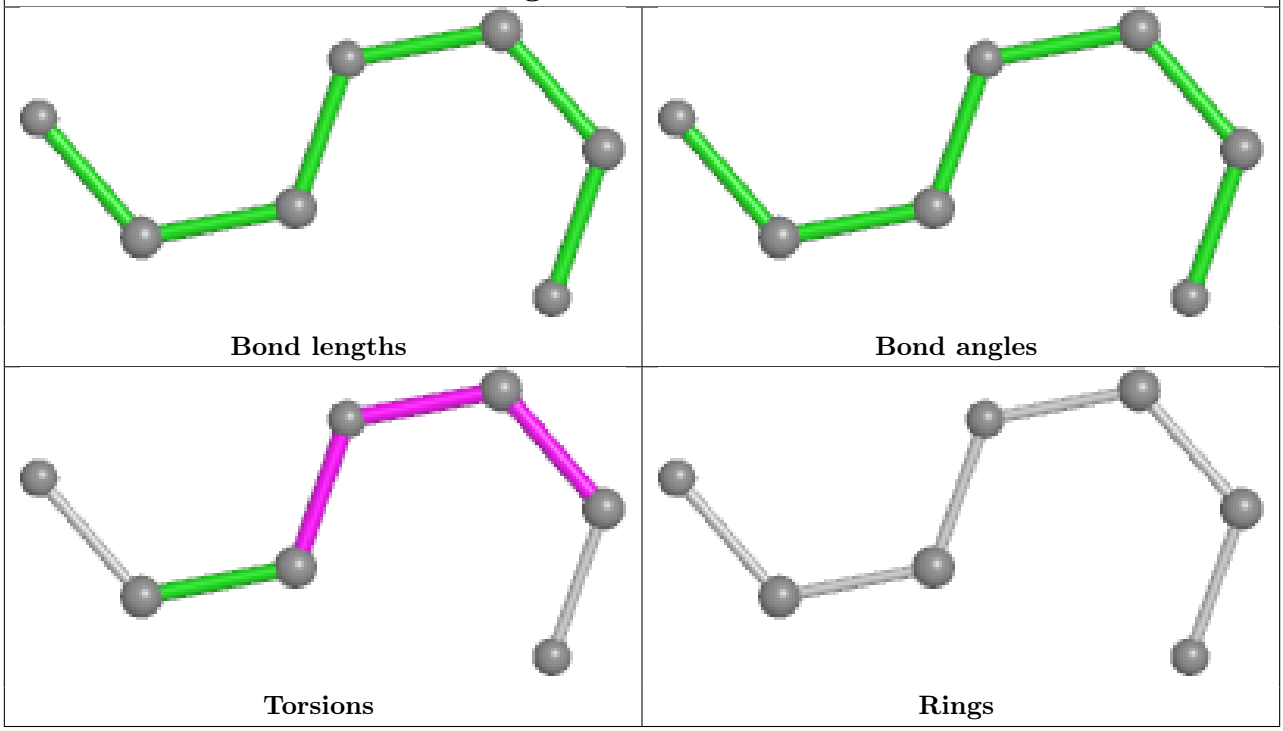


Rings

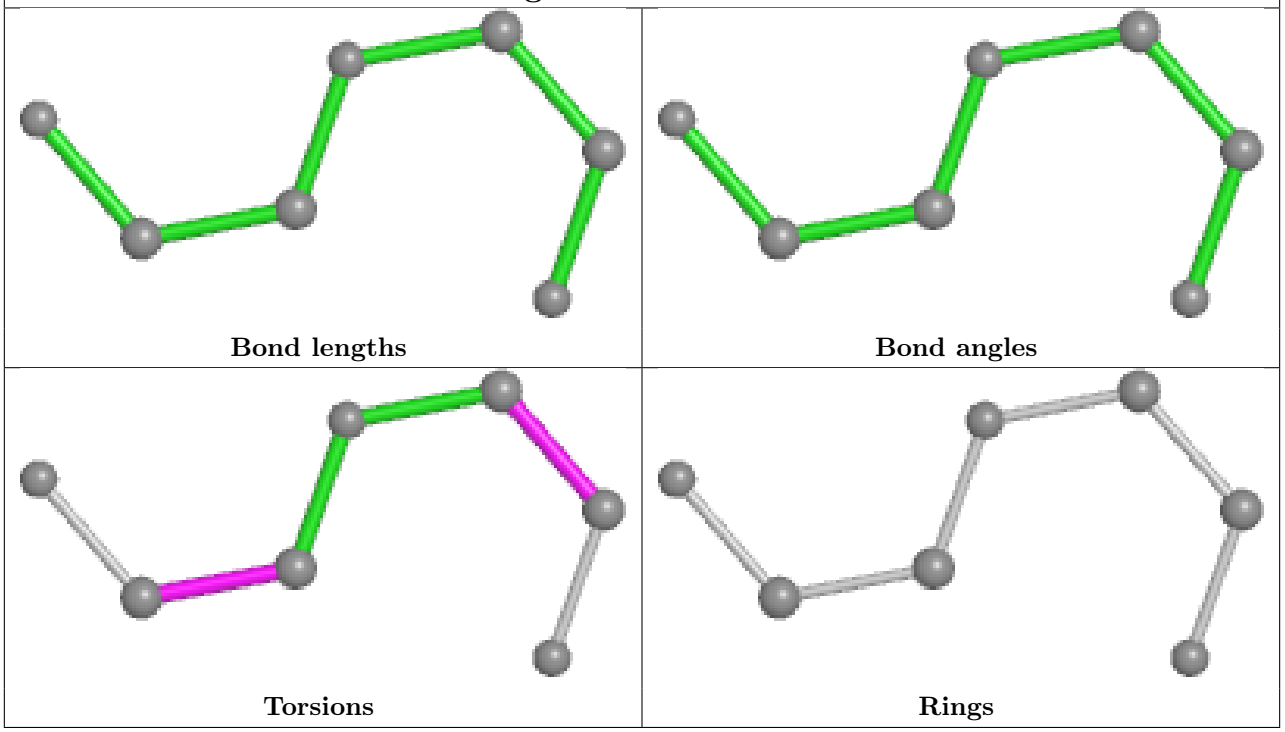
Ligand PEG A 337



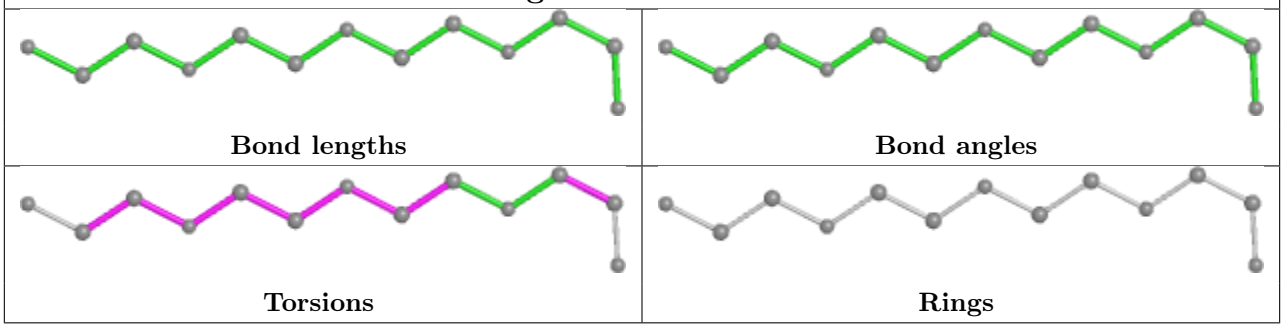
Ligand PEG A 333



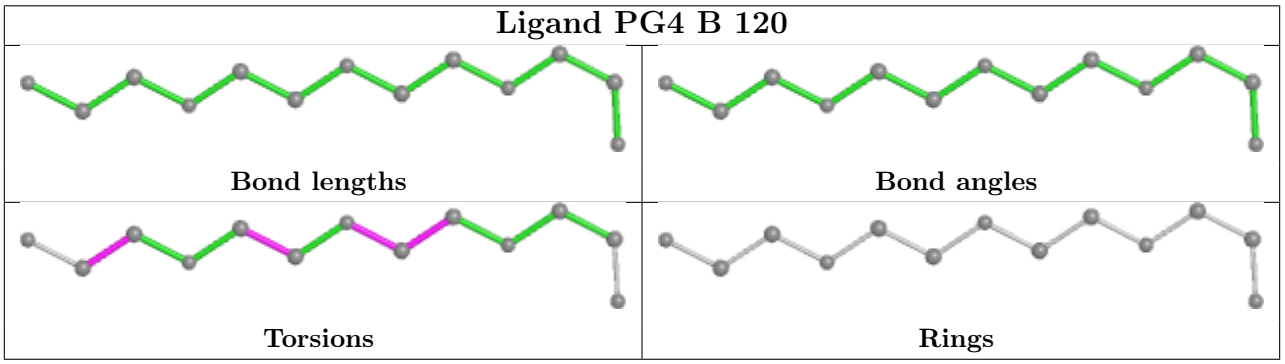
Ligand PEG B 156



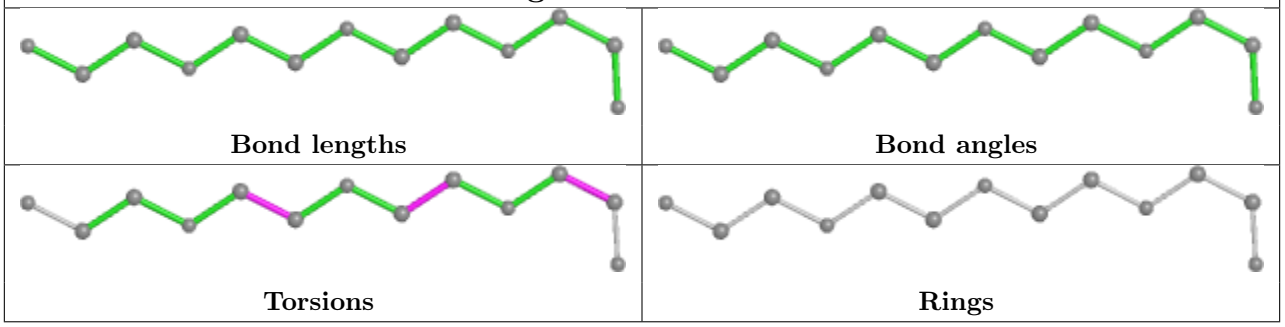
Ligand PG4 A 321



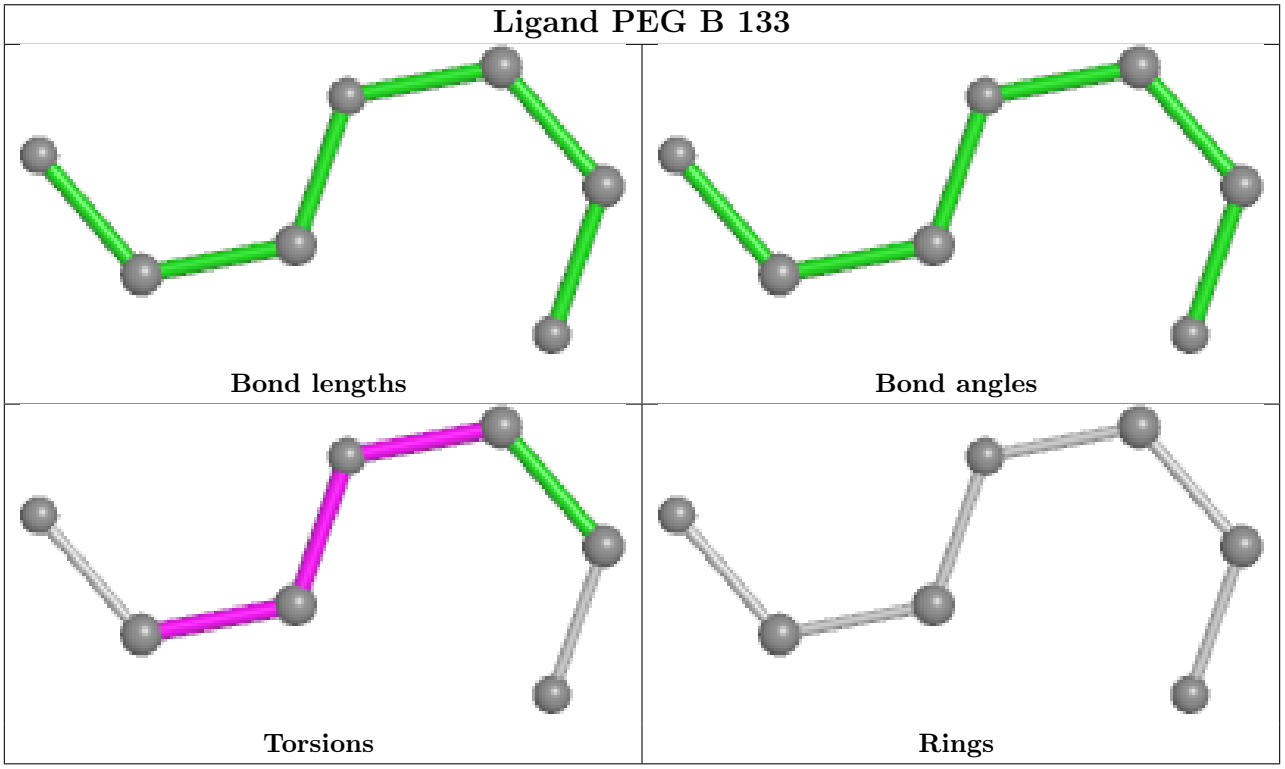
Ligand PG4 B 120



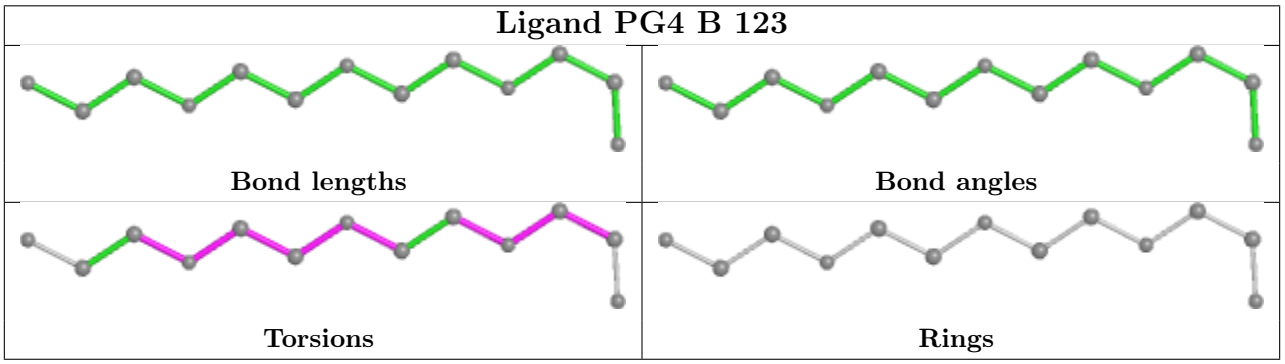
Ligand PG4 B 101



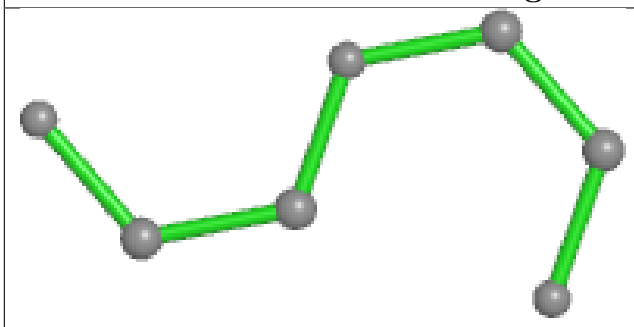
Ligand PEG B 133



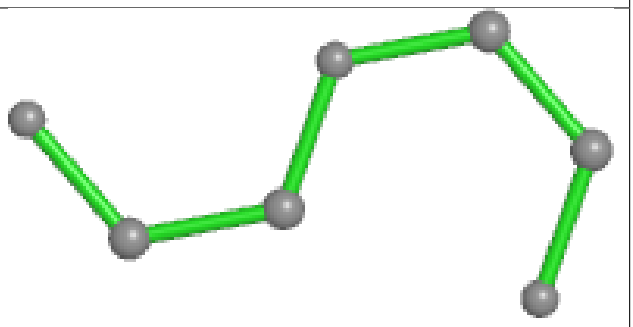
Ligand PG4 B 123



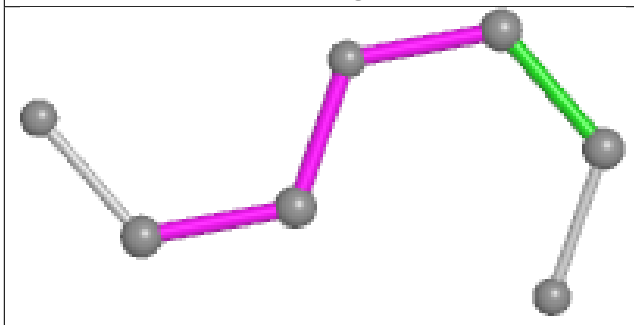
Ligand PEG B 127



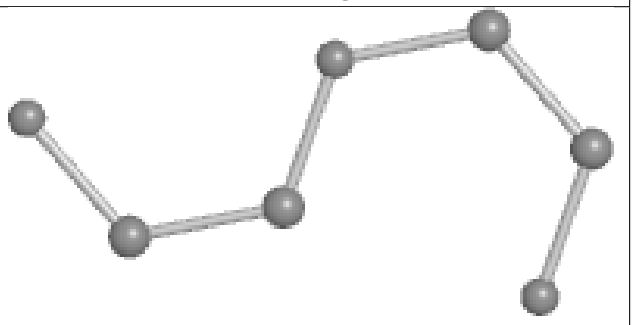
Bond lengths



Bond angles

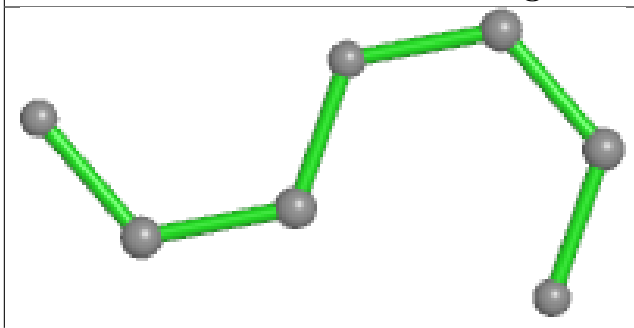


Torsions

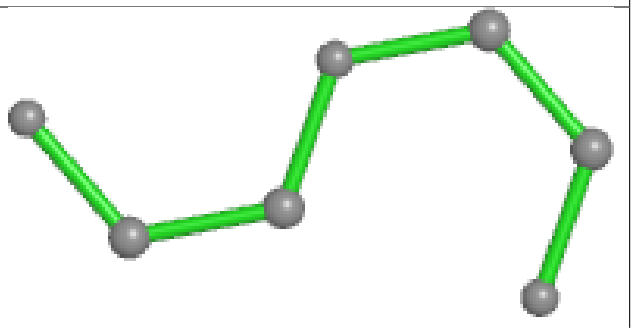


Rings

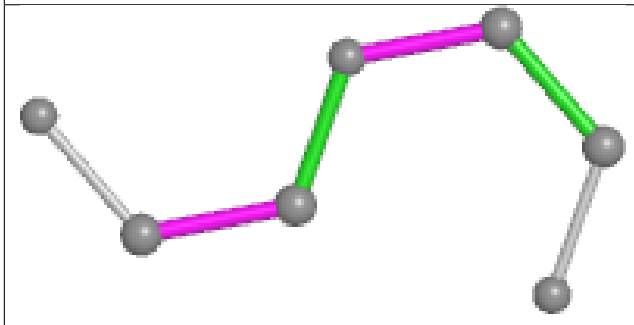
Ligand PEG A 341



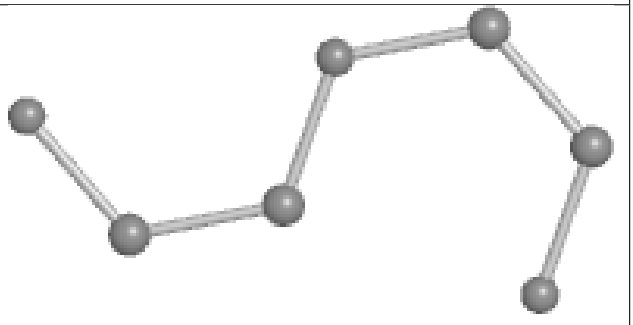
Bond lengths



Bond angles

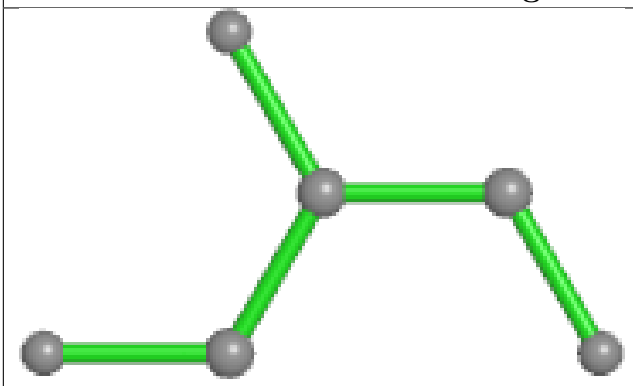


Torsions

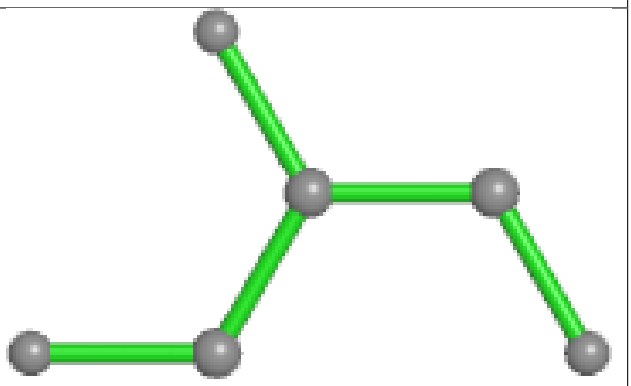


Rings

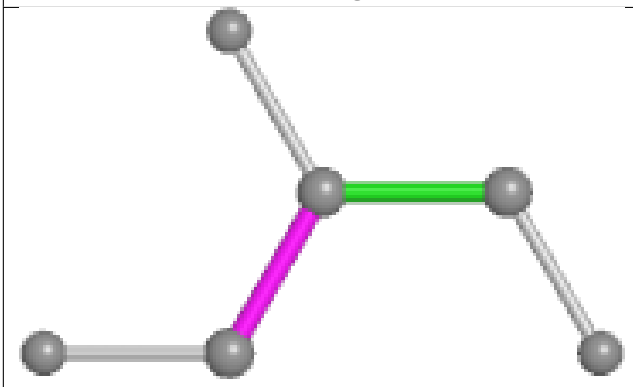
Ligand GOL A 373



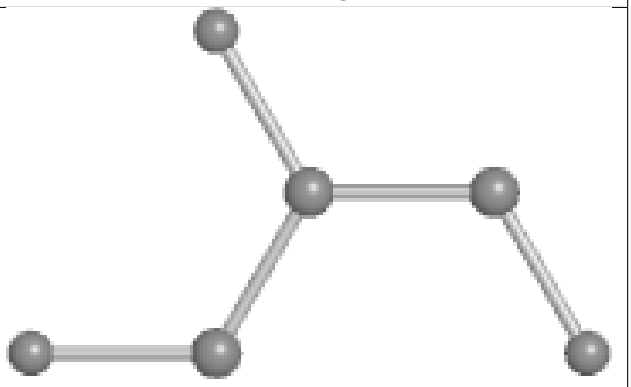
Bond lengths



Bond angles

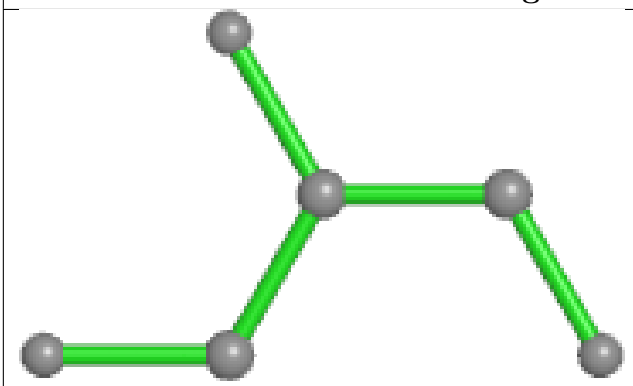


Torsions

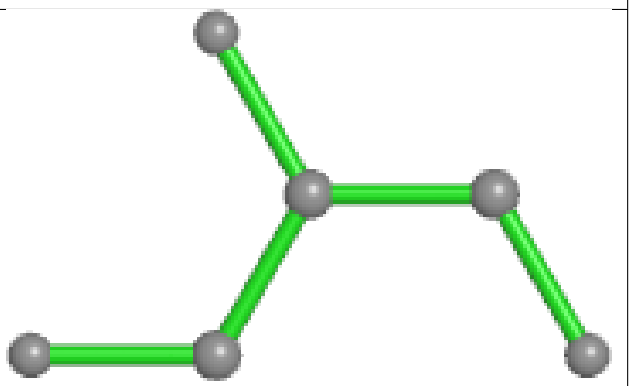


Rings

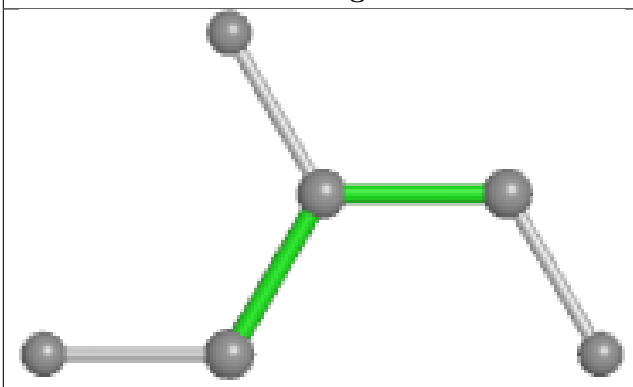
Ligand GOL D 113



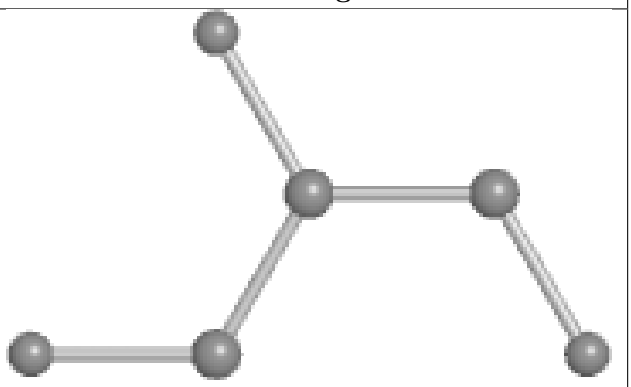
Bond lengths



Bond angles

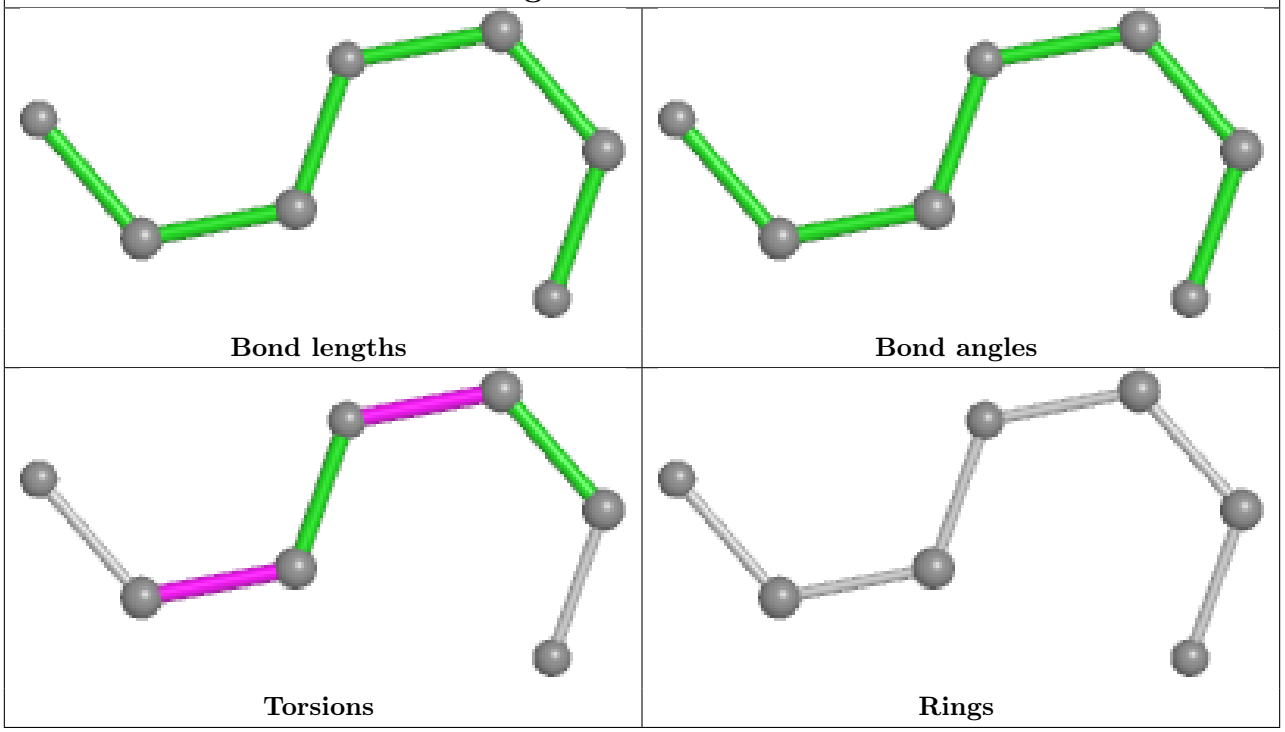


Torsions

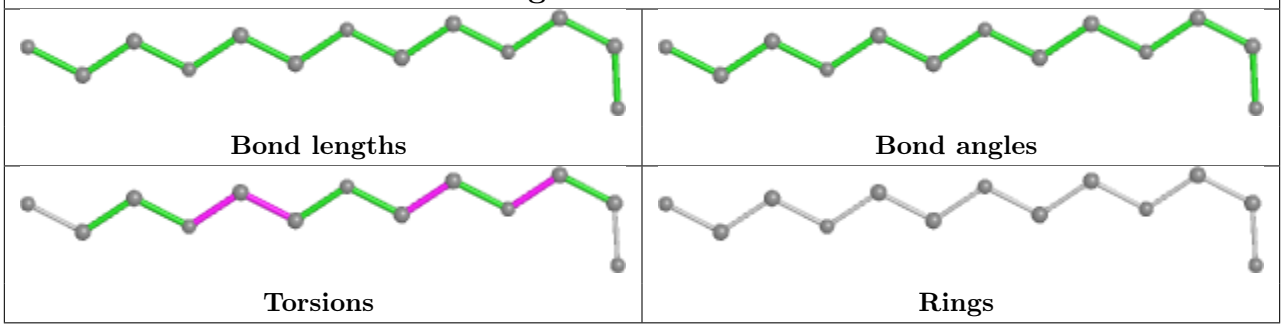


Rings

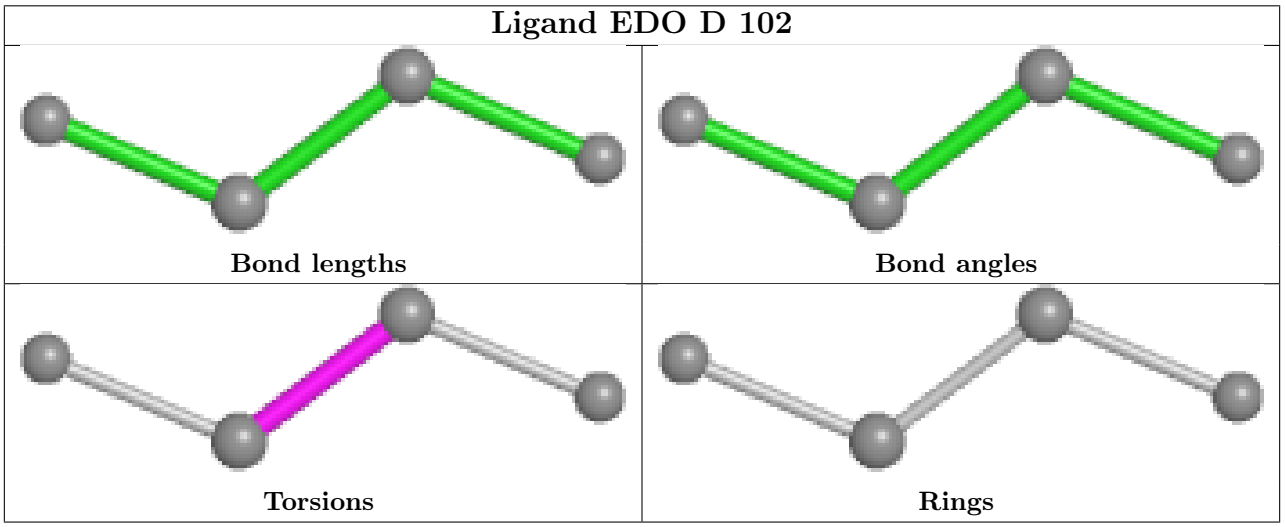
Ligand PEG C 334



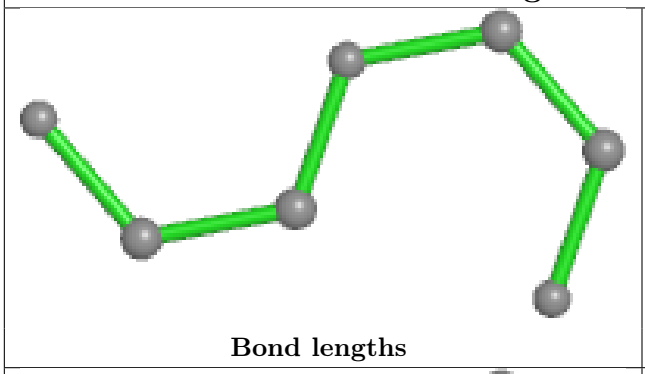
Ligand PG4 E 105



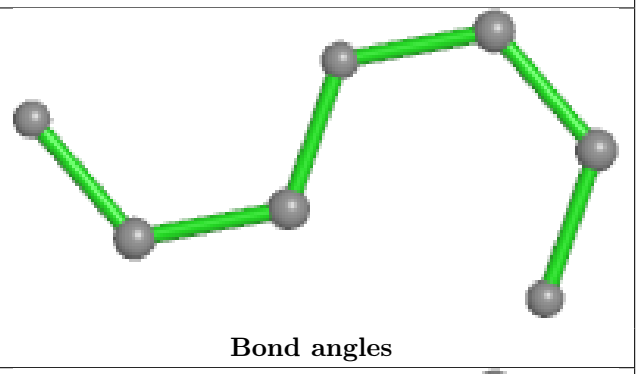
Ligand EDO D 102



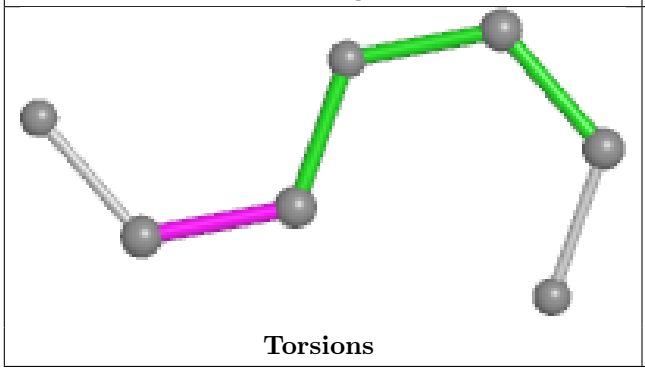
Ligand PEG A 371



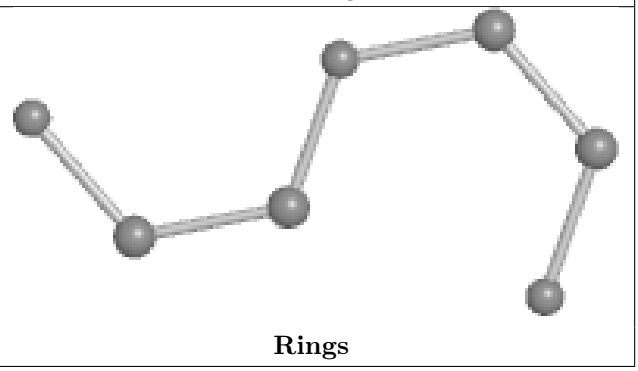
Bond lengths



Bond angles

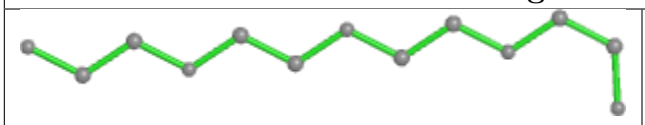


Torsions

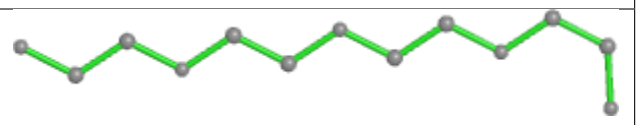


Rings

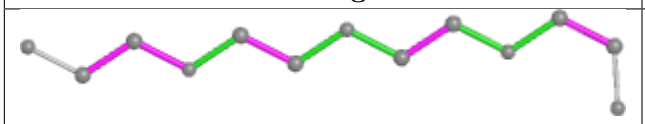
Ligand PG4 C 302



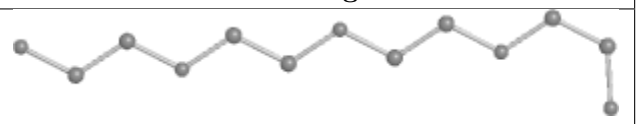
Bond lengths



Bond angles

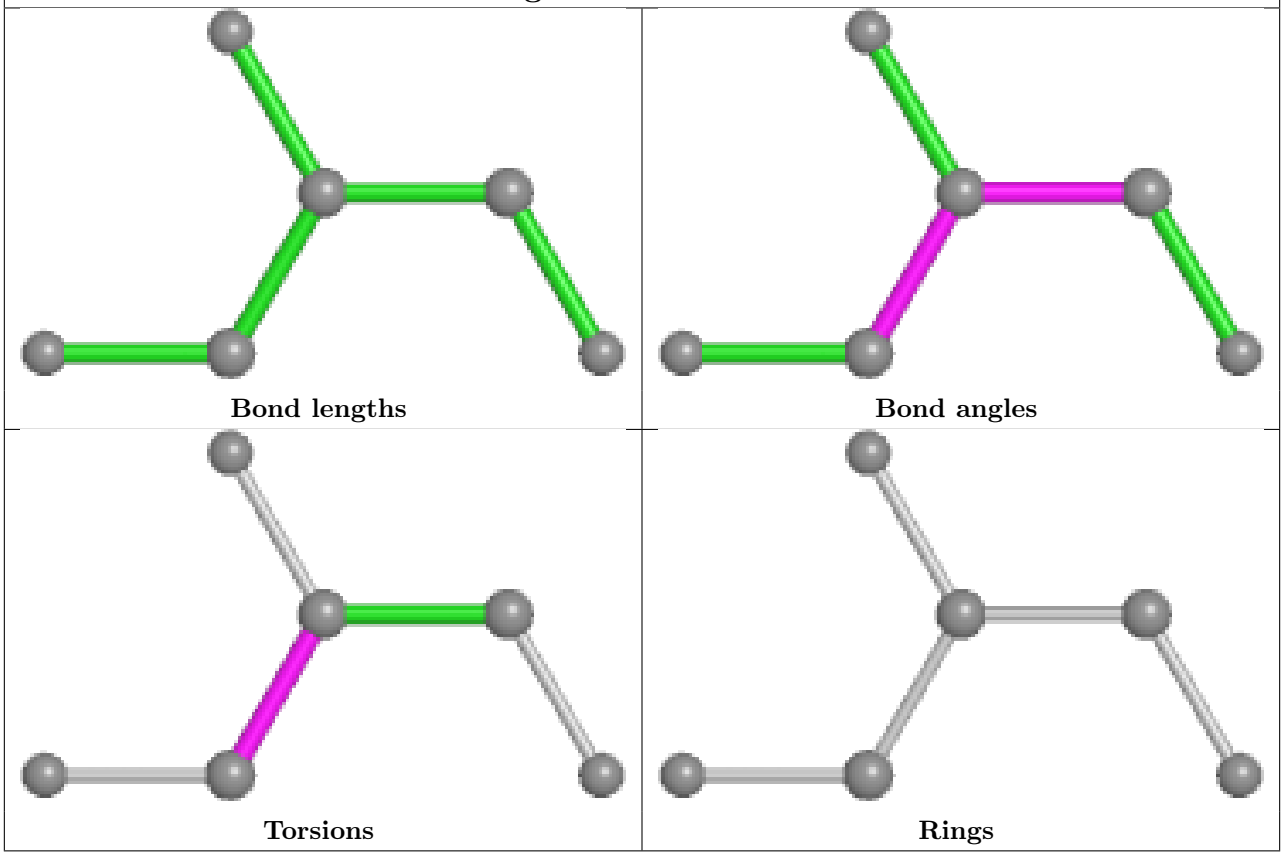


Torsions

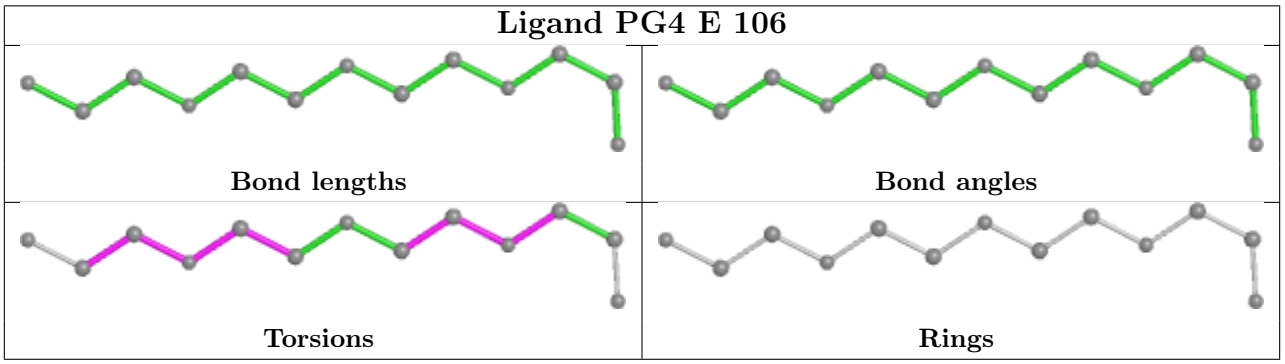


Rings

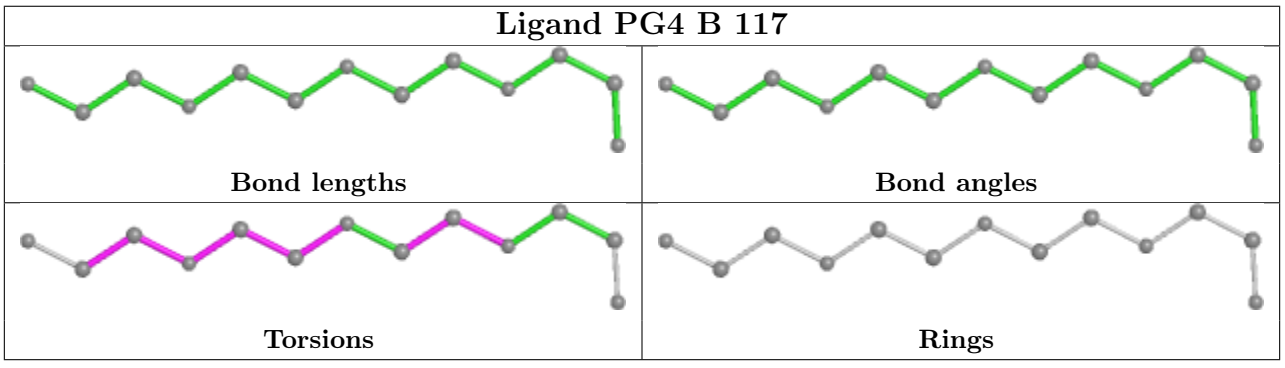
Ligand GOL B 112



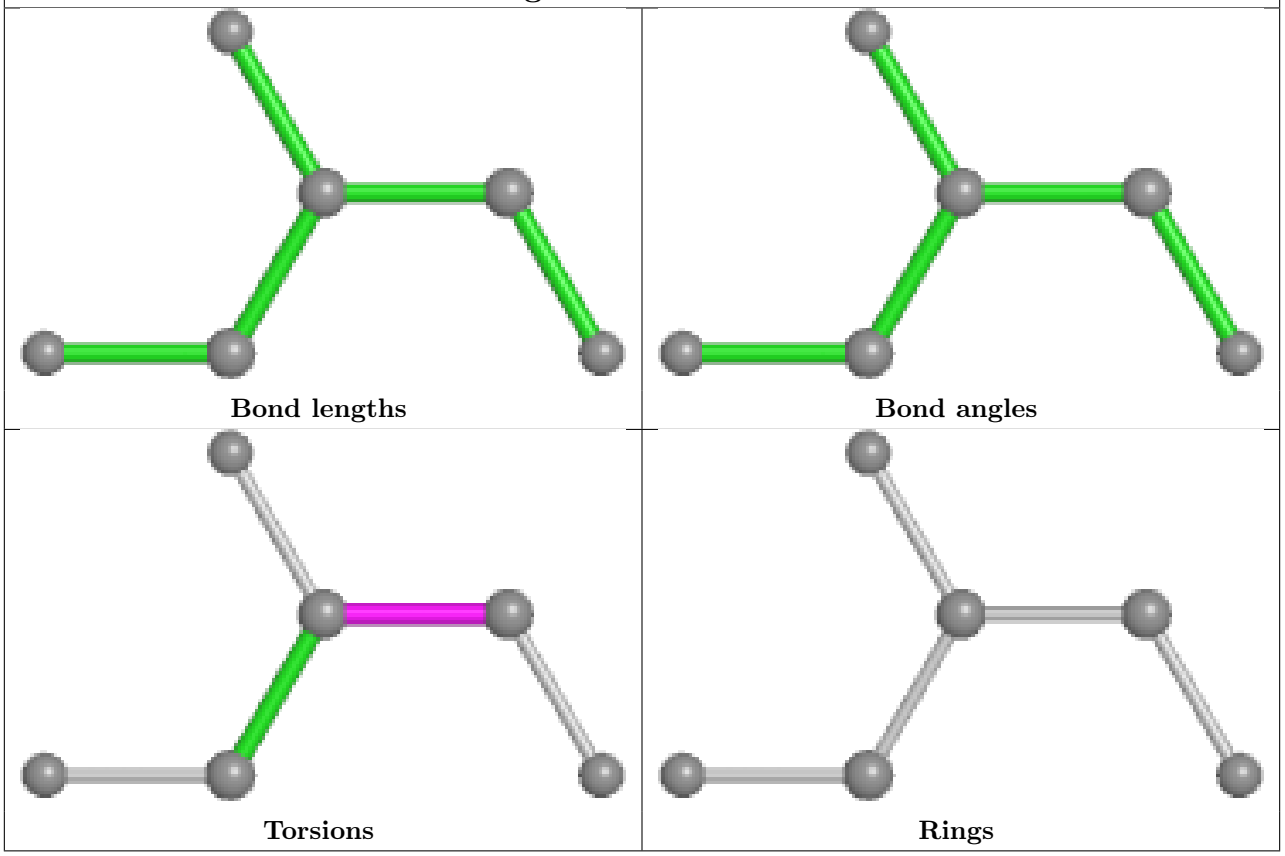
Ligand PG4 E 106



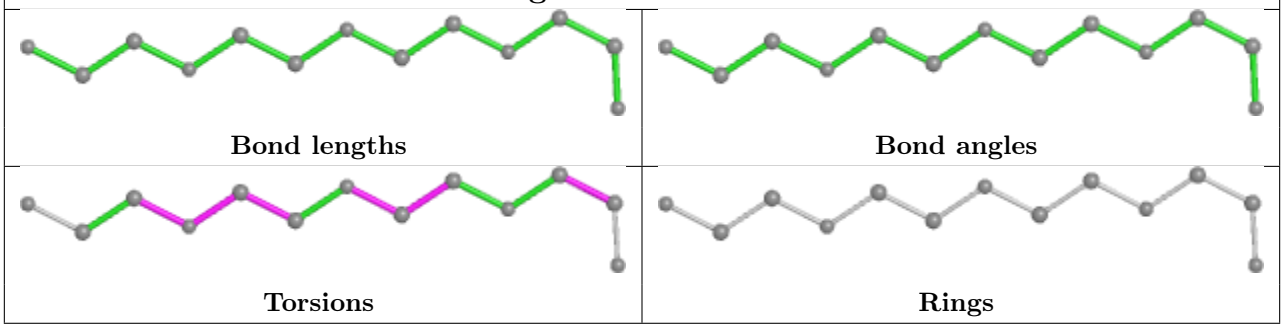
Ligand PG4 B 117



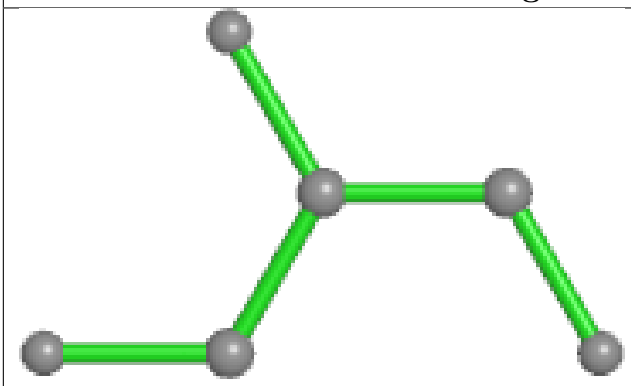
Ligand GOL C 344



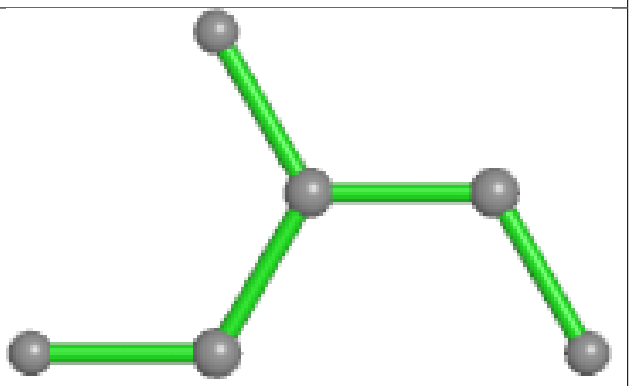
Ligand PG4 F 101



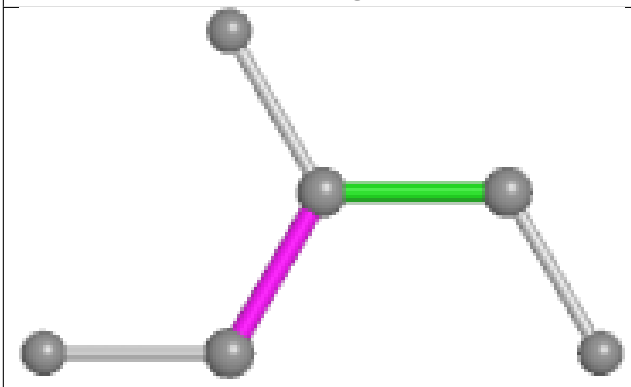
Ligand GOL D 109



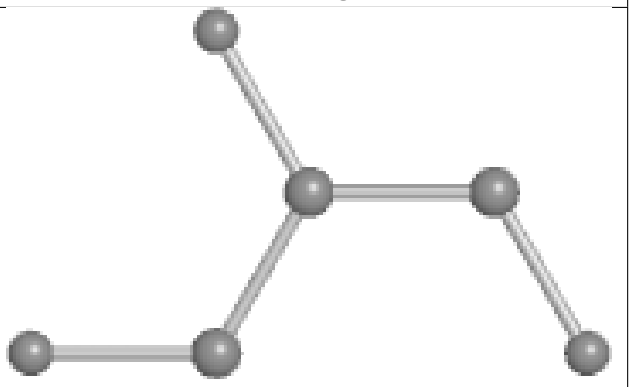
Bond lengths



Bond angles

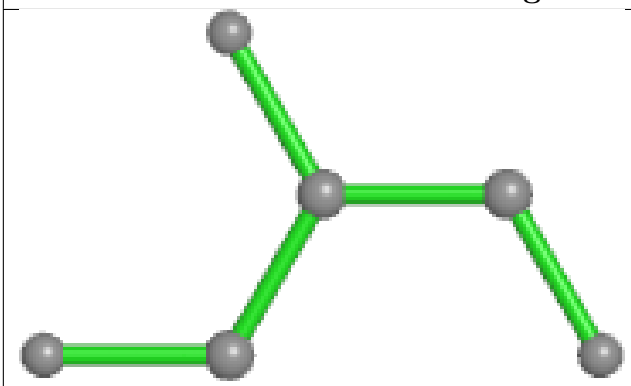


Torsions



Rings

Ligand GOL B 106



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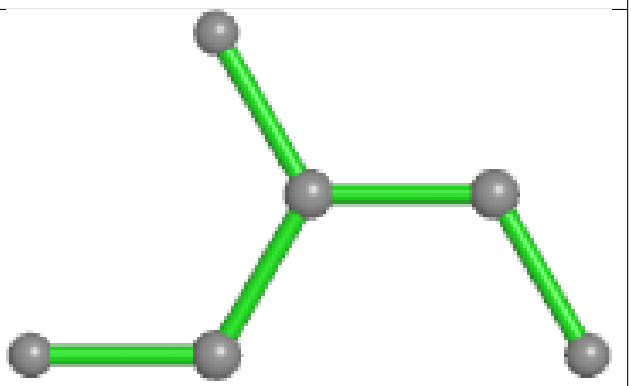
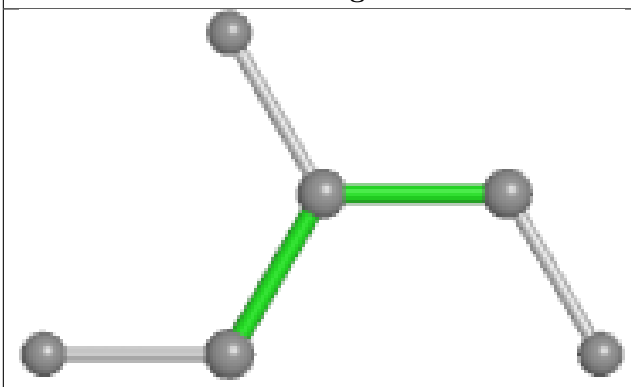
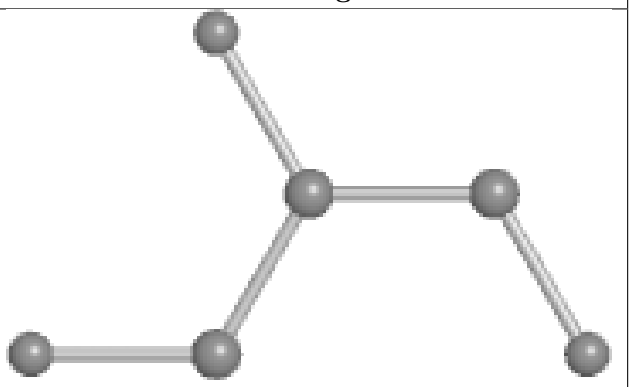


Bond angles

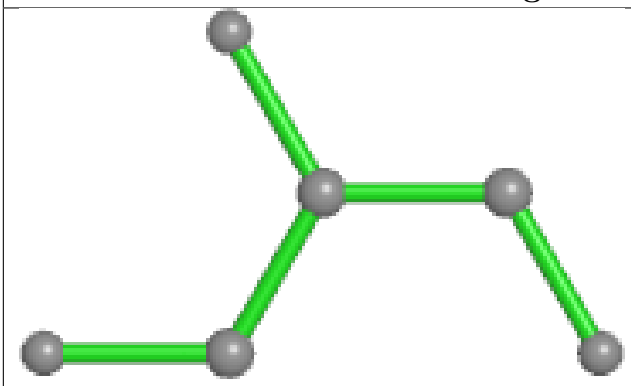


Torsions

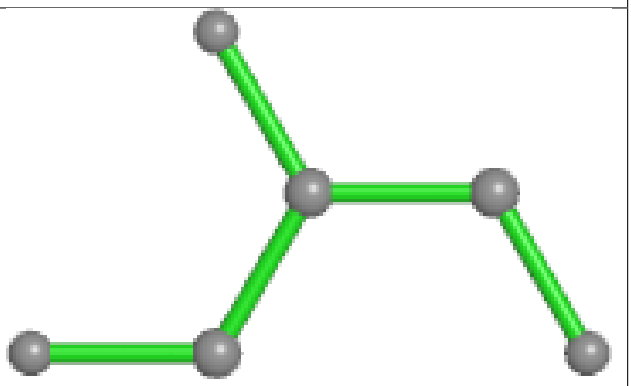


Rings

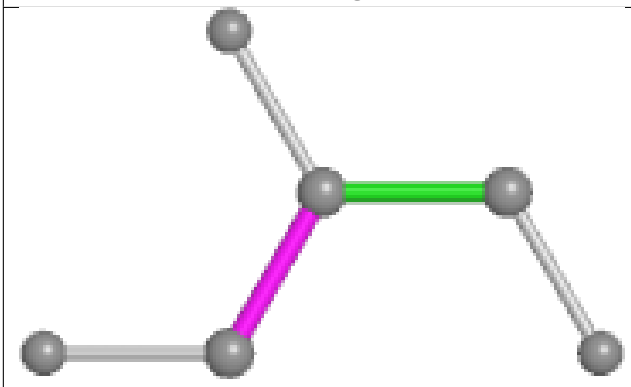
Ligand GOL C 305



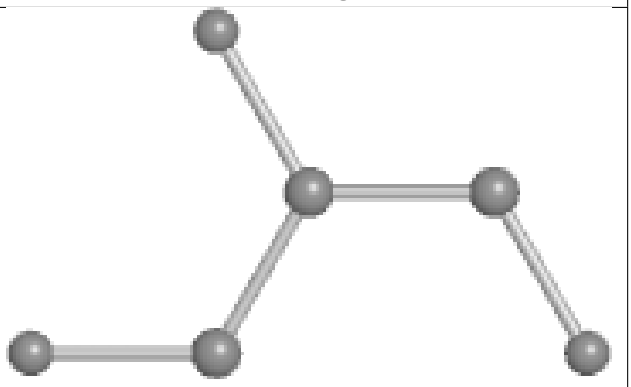
Bond lengths



Bond angles

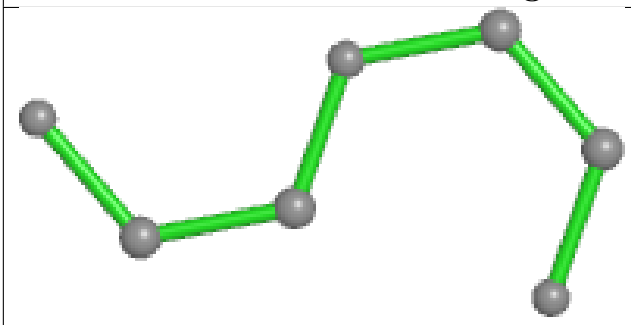


Torsions



Rings

Ligand PEG C 328



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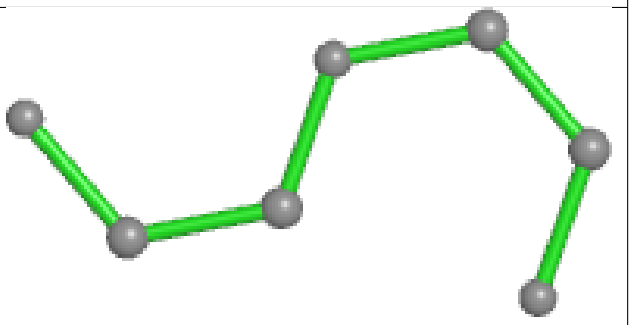
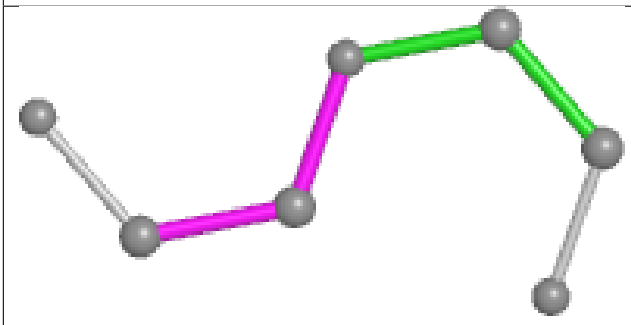
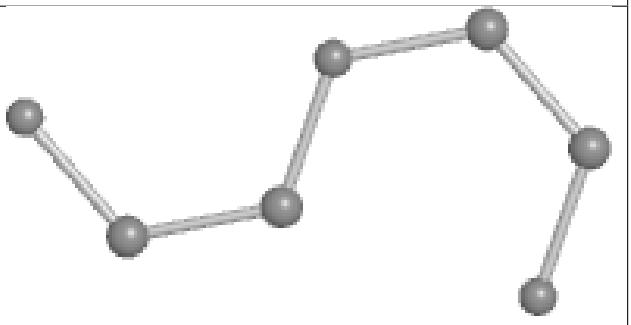


Bond angles

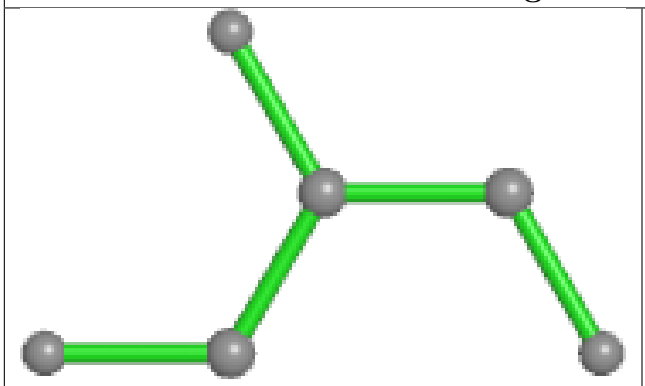


Torsions



Rings

Ligand GOL B 153



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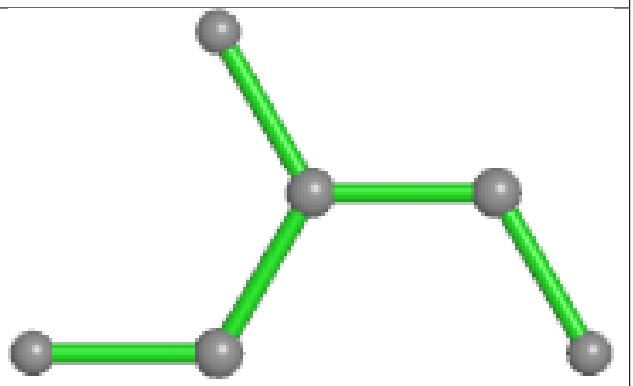
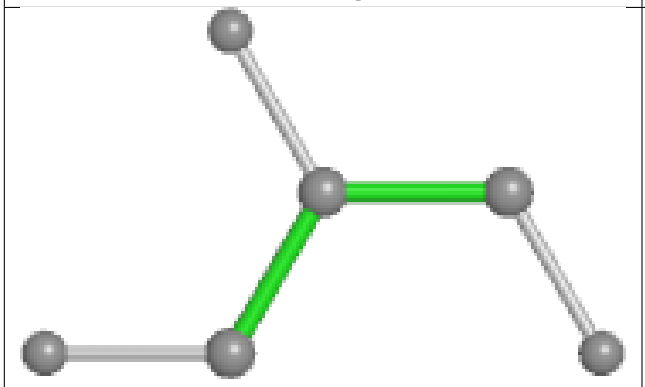
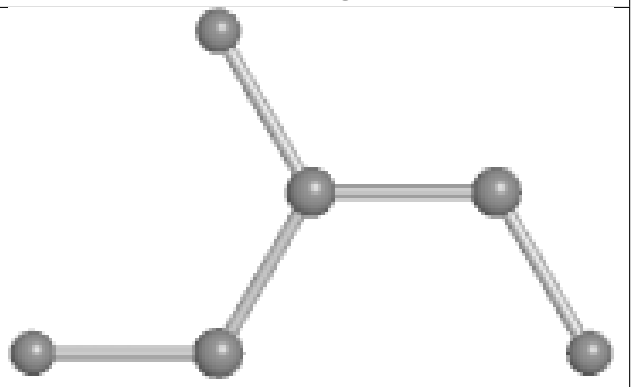


Bond angles

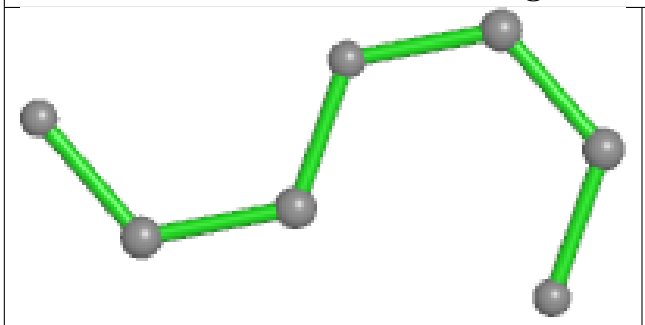


Torsions

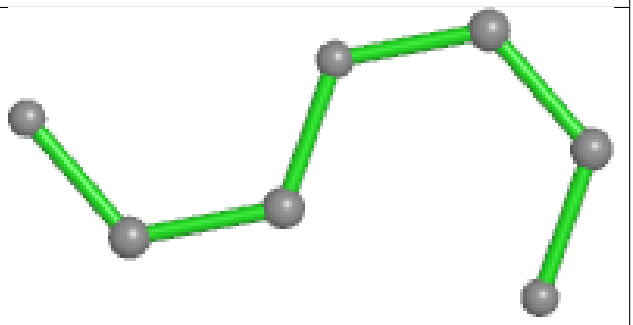


Rings

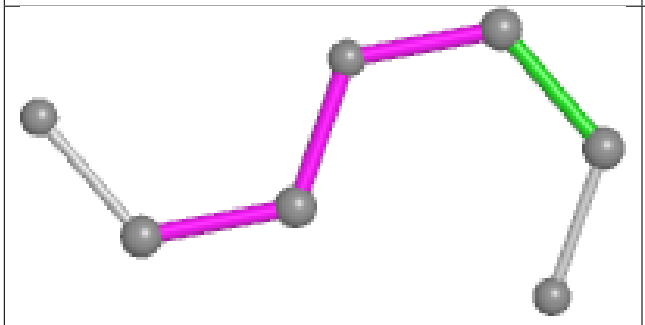
Ligand PEG B 157



Bond lengths



Bond angles



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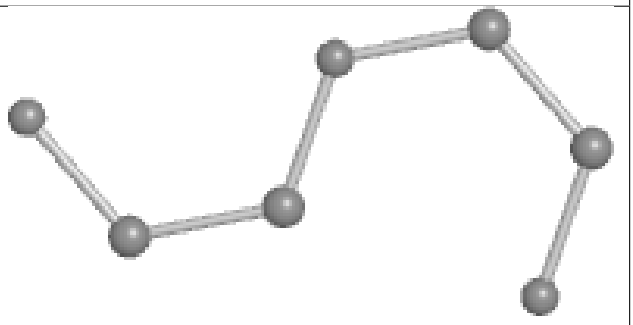
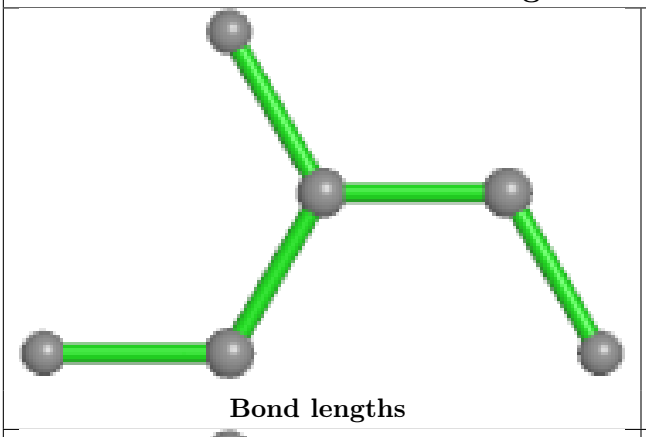


Rings

Ligand GOL A 303



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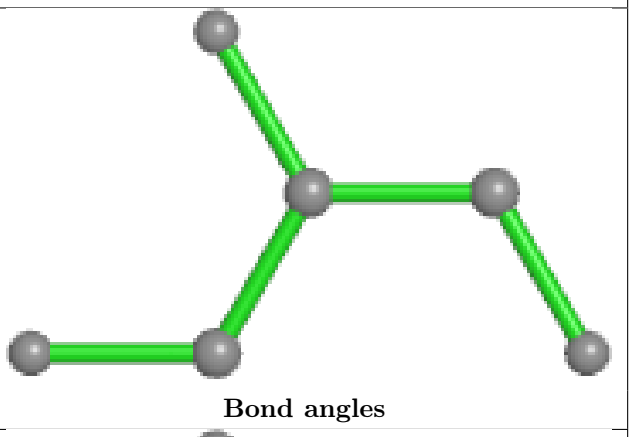
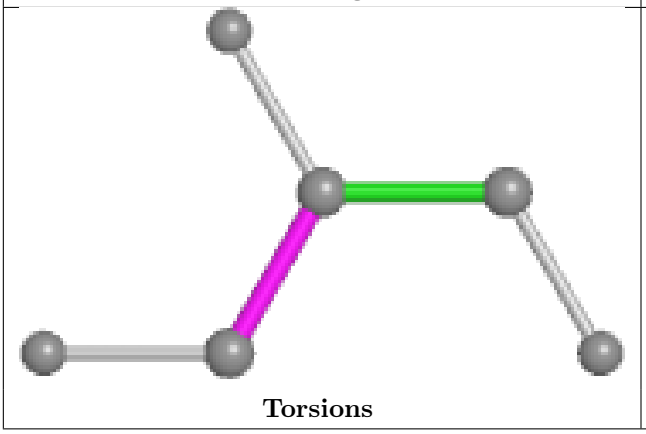


Bond angles



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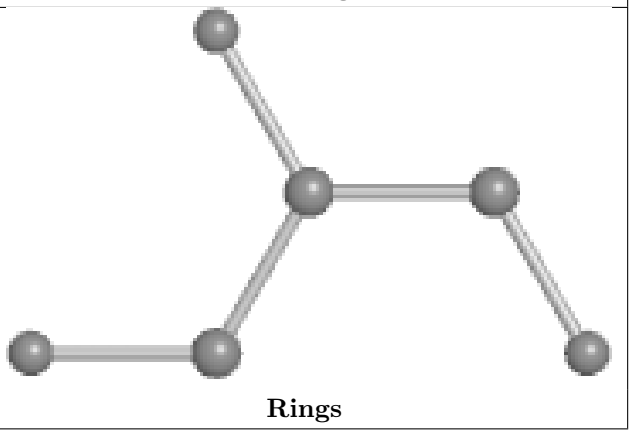
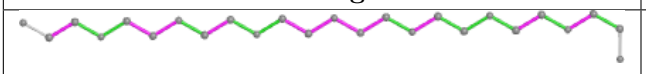


Rings

Ligand PE8 E 109

Bond lengths

Bond angles



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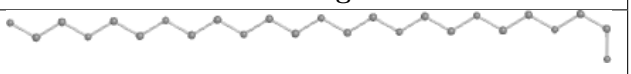
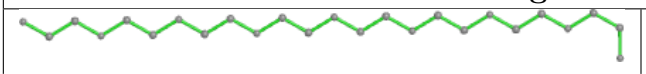


Rings

Ligand PE8 E 110



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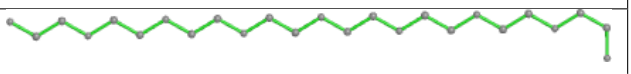
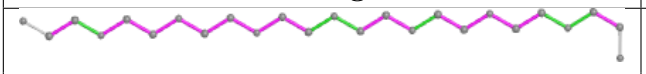


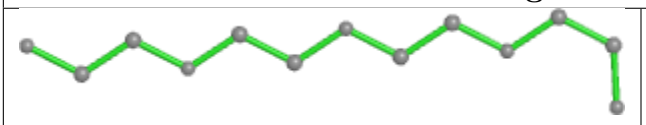
Bond angles



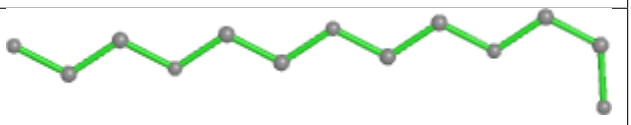
Torsions

Rings

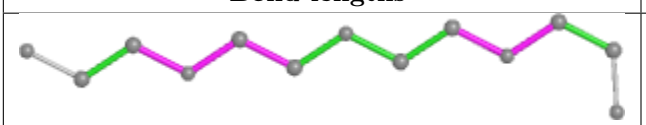
Ligand PG4 A 366



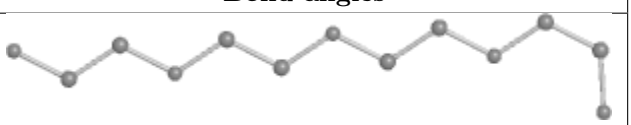
Bond lengths



Bond angles

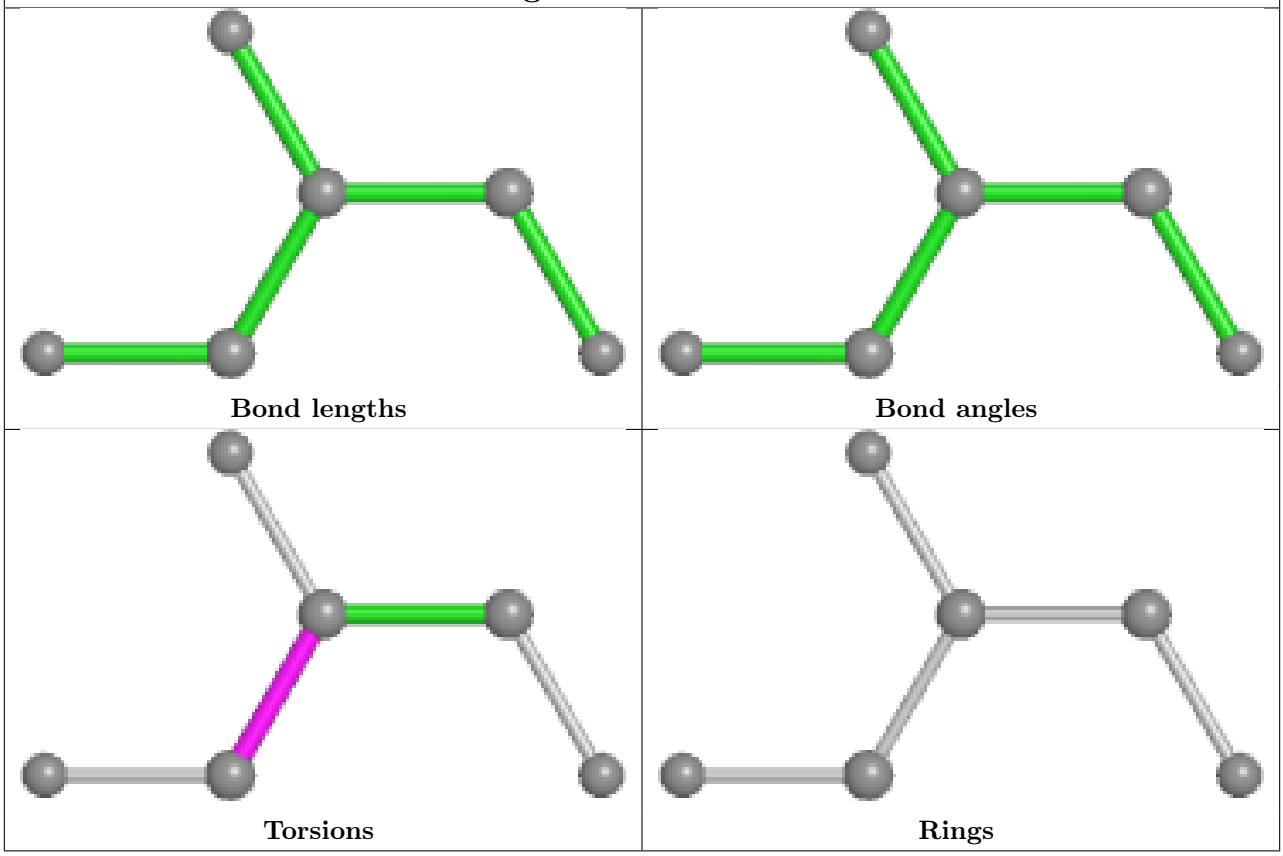


Torsions

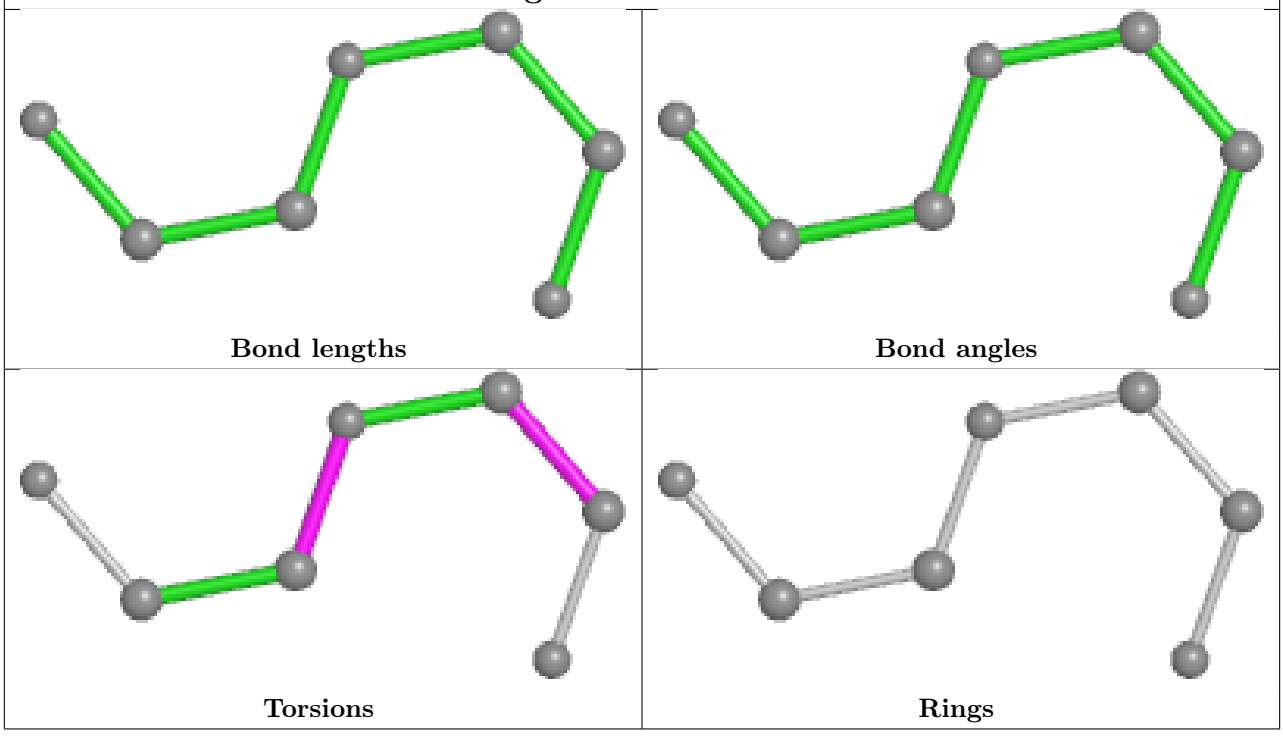


Rings

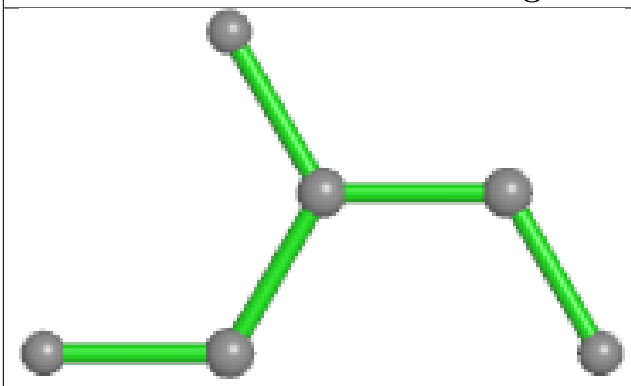
Ligand GOL D 110



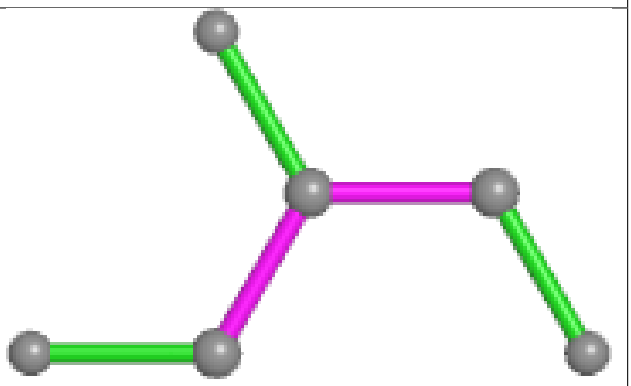
Ligand PEG B 158



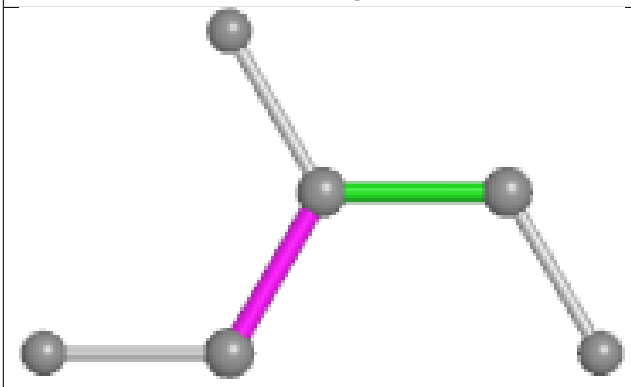
Ligand GOL B 104



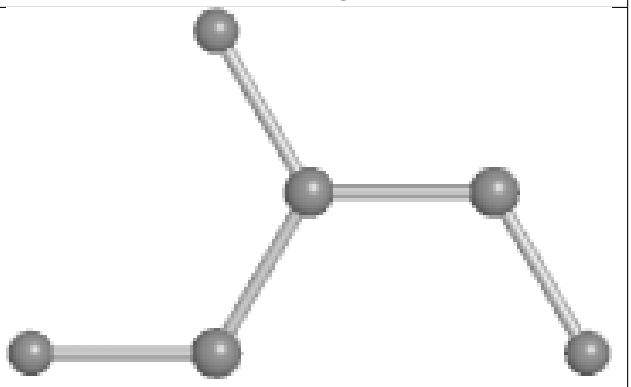
Bond lengths



Bond angles

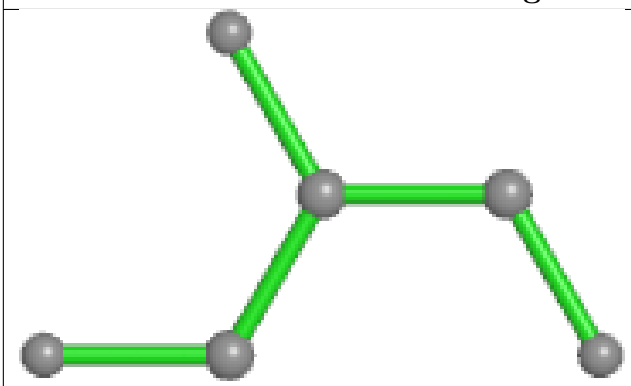


Torsions

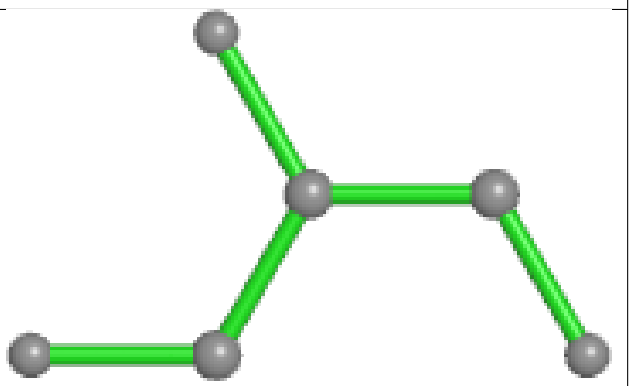


Rings

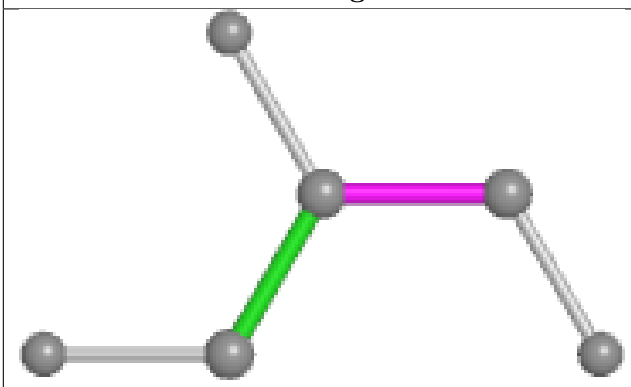
Ligand GOL C 313



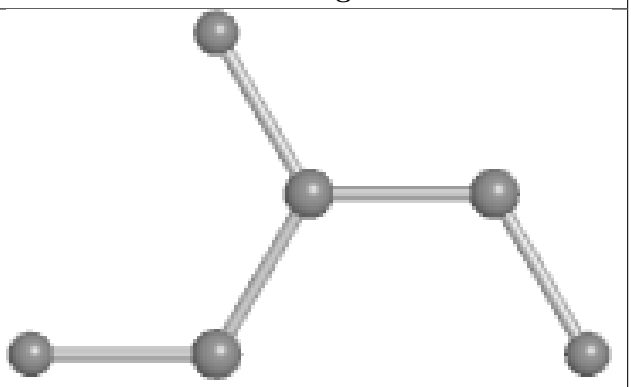
Bond lengths



Bond angles

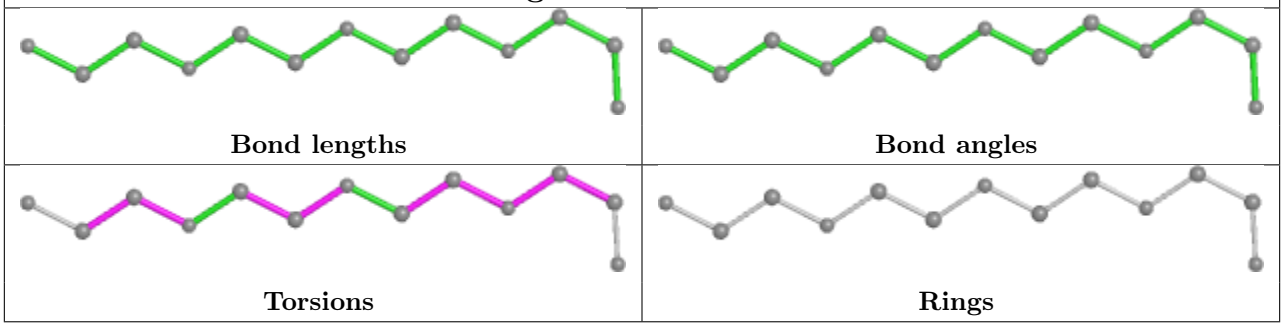


Torsions

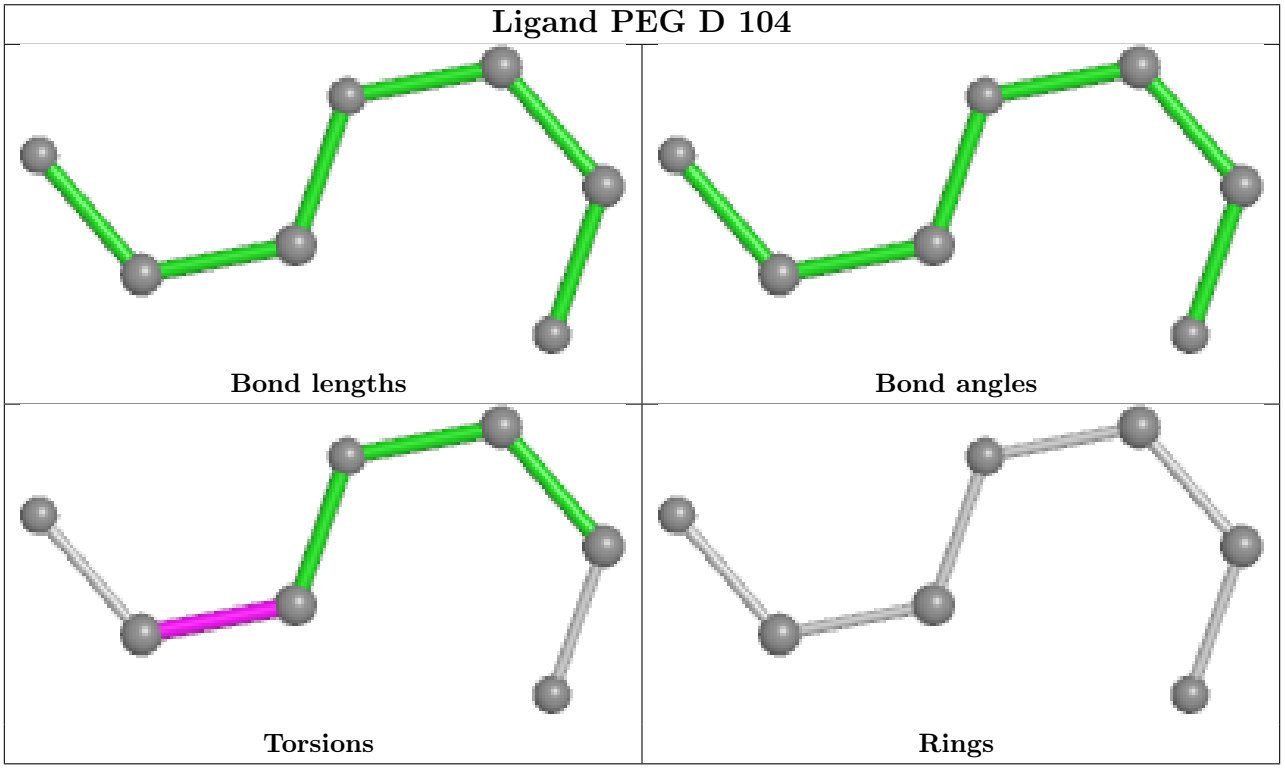


Rings

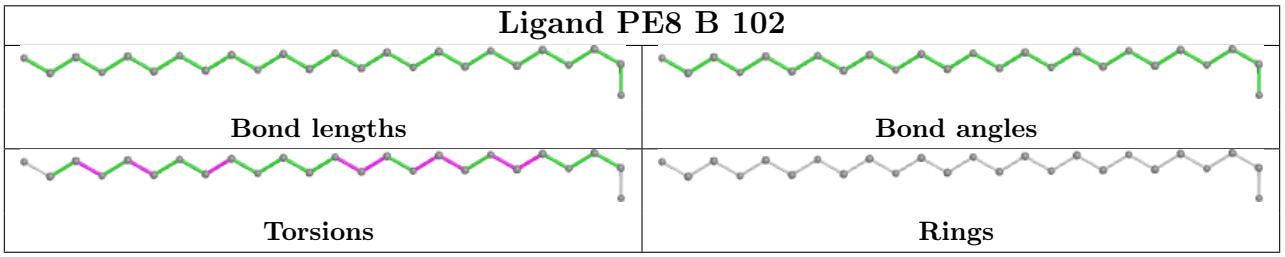
Ligand PG4 A 365



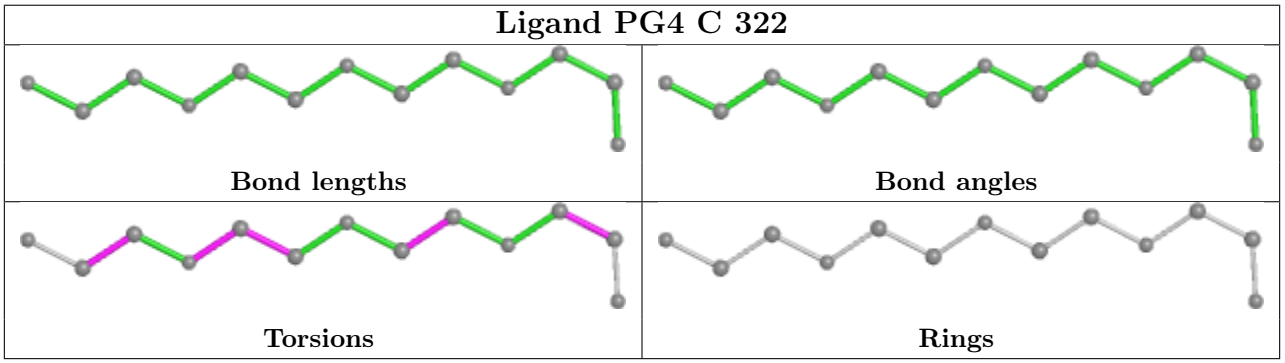
Ligand PEG D 104



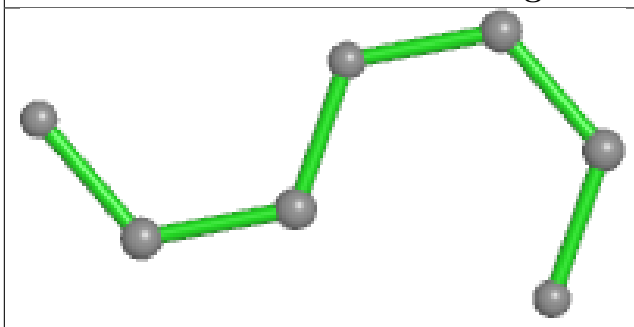
Ligand PE8 B 102



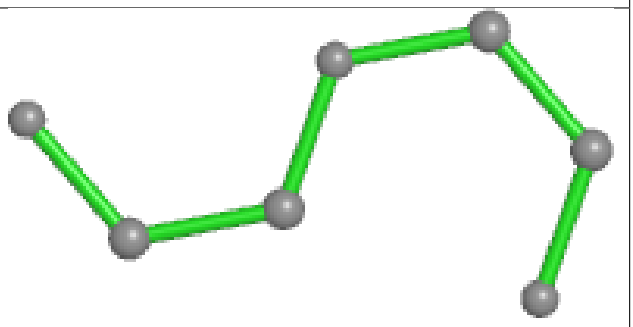
Ligand PG4 C 322



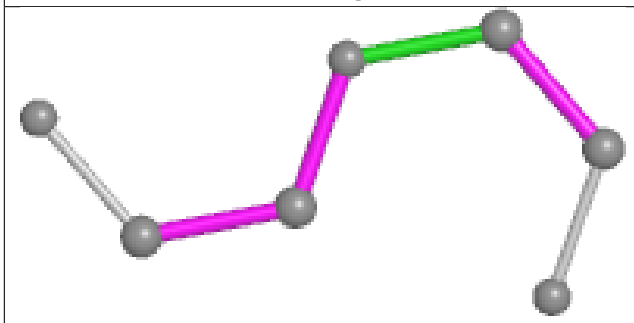
Ligand PEG C 329



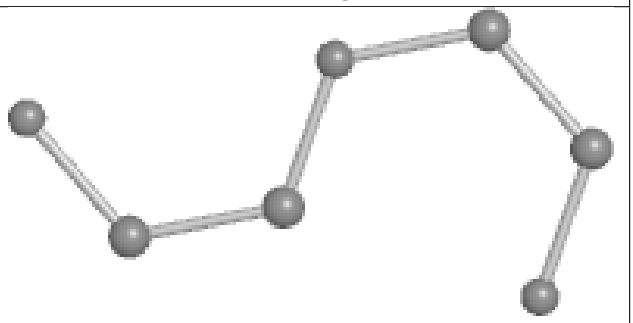
Bond lengths



Bond angles

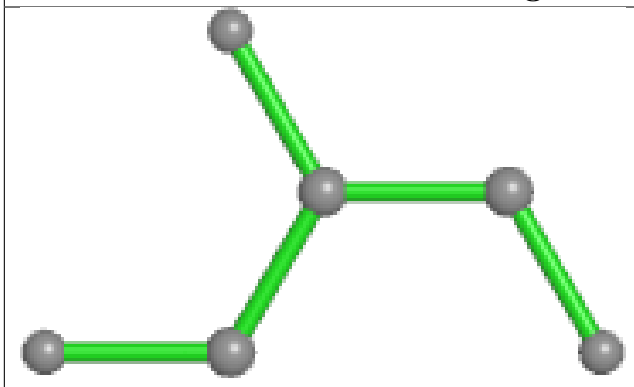


Torsions

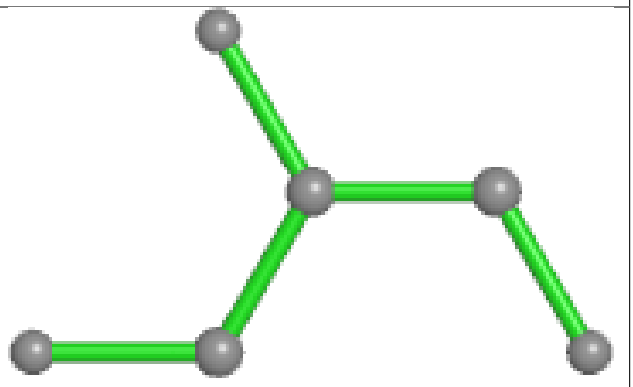


Rings

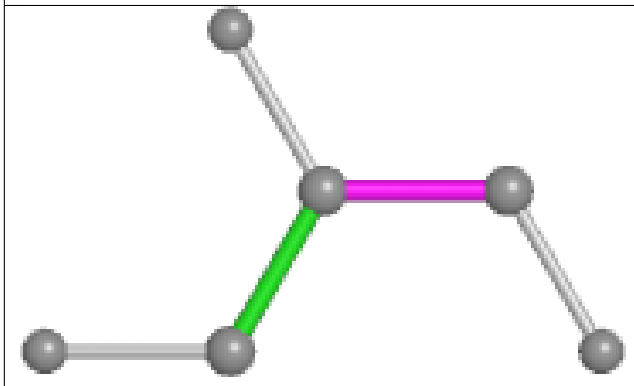
Ligand GOL C 345



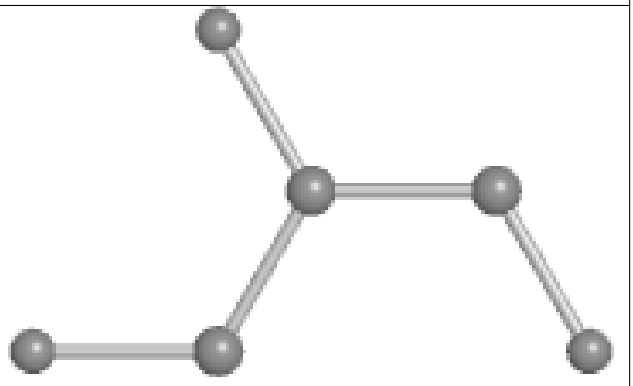
Bond lengths



Bond angles

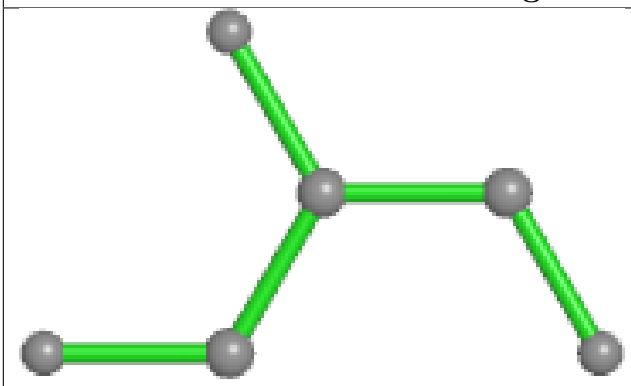


Torsions

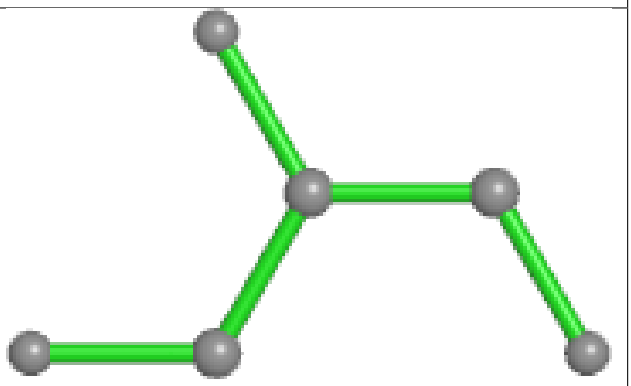


Rings

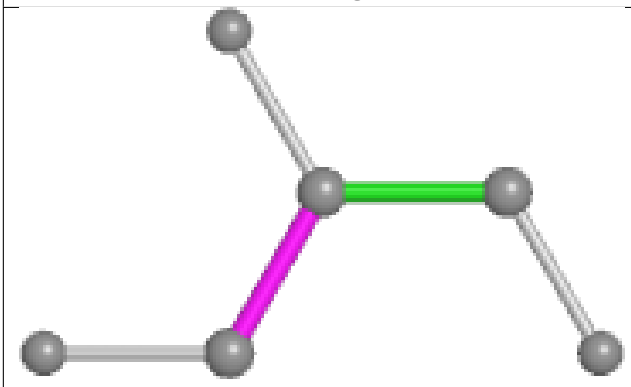
Ligand GOL A 304



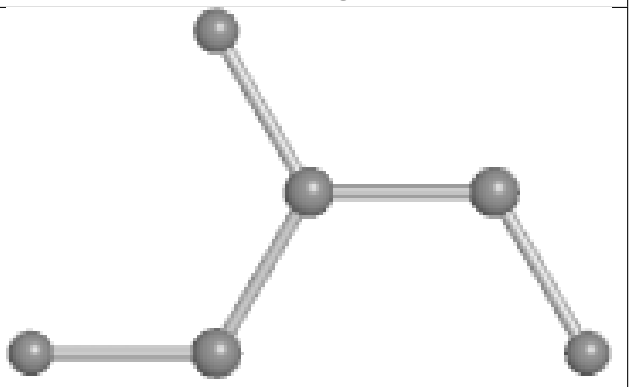
Bond lengths



Bond angles

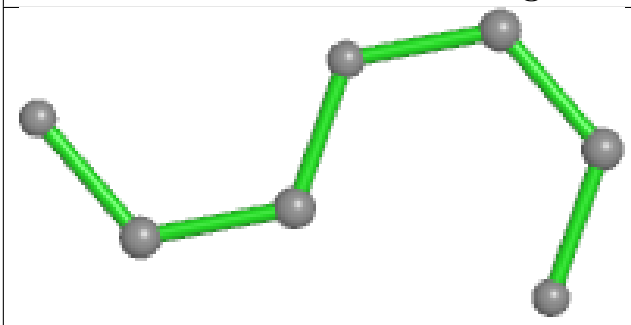


Torsions

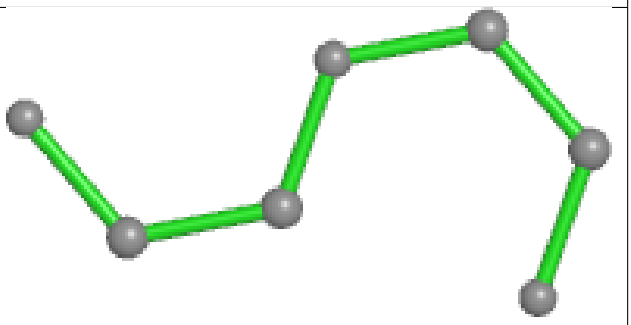


Rings

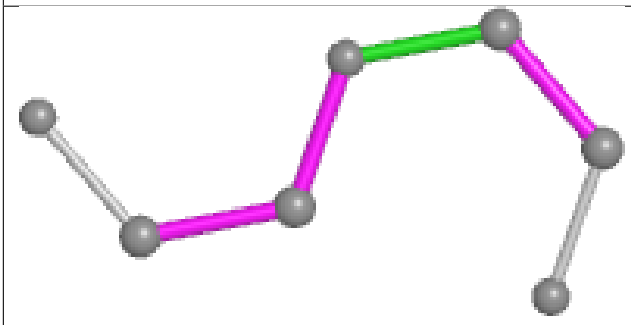
Ligand PEG A 346



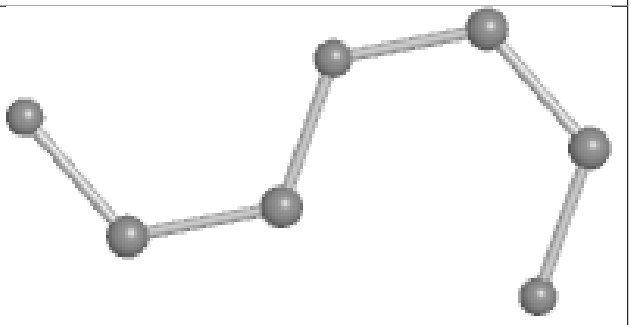
Bond lengths



Bond angles

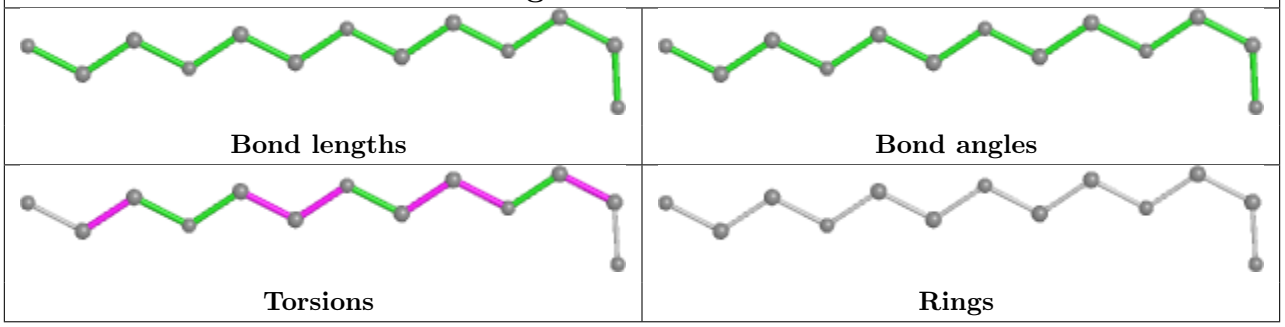


Torsions

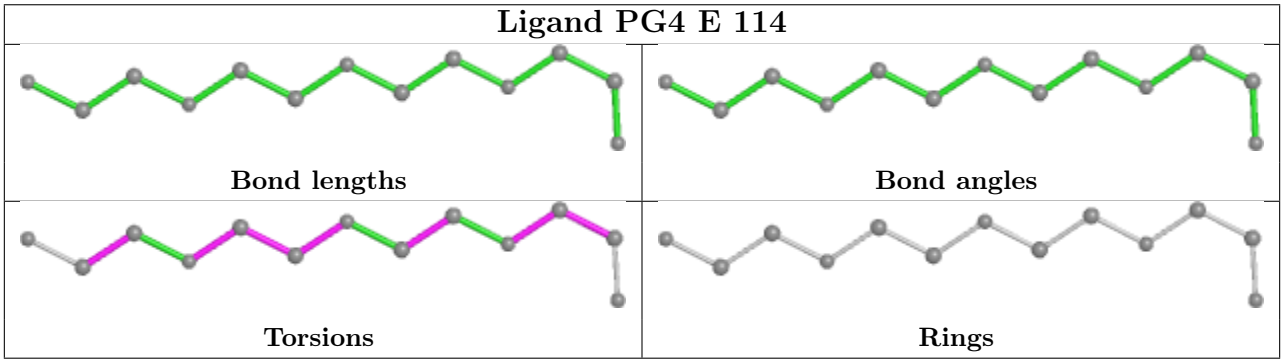


Rings

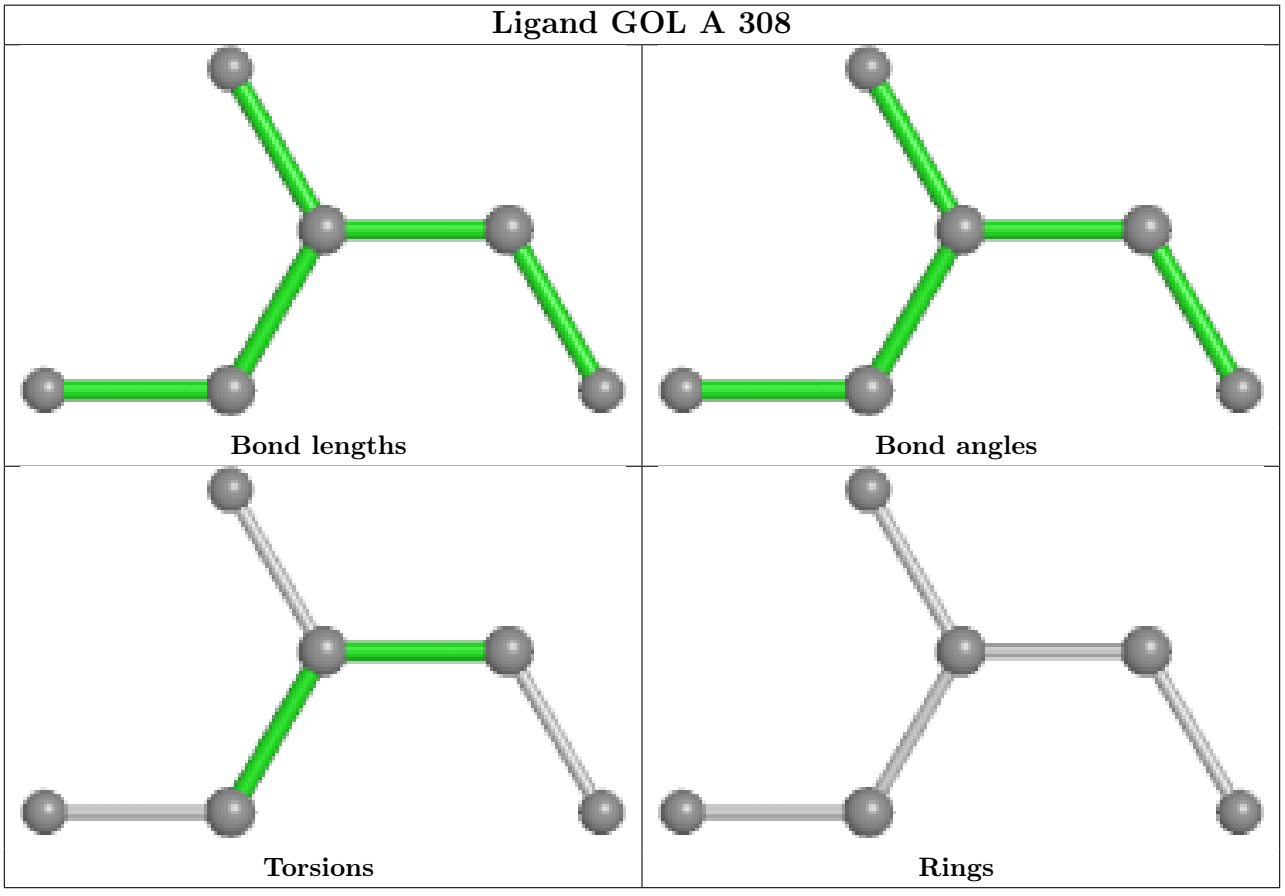
Ligand PG4 A 369



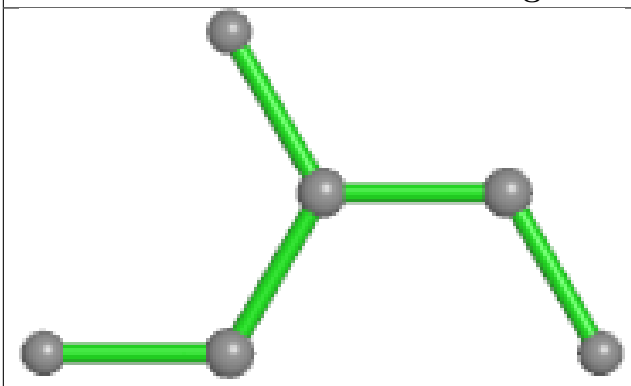
Ligand PG4 E 114



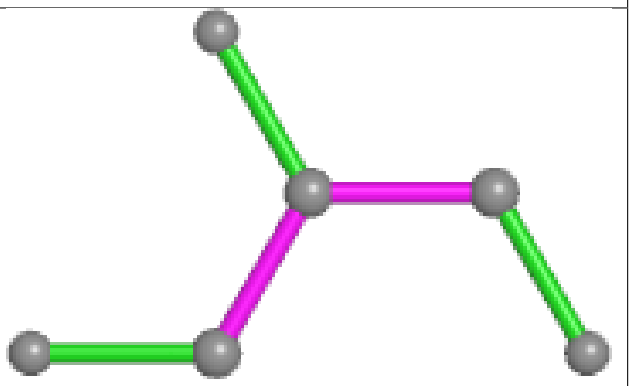
Ligand GOL A 308



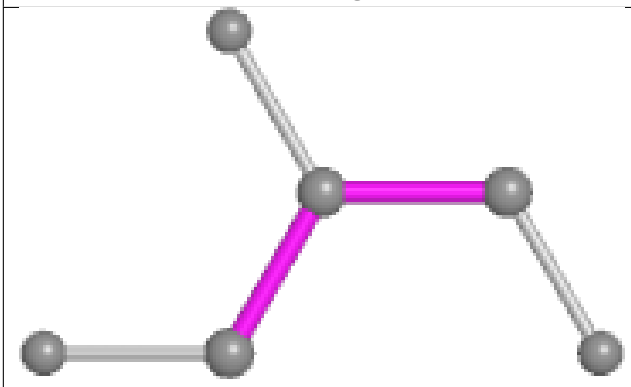
Ligand GOL C 309



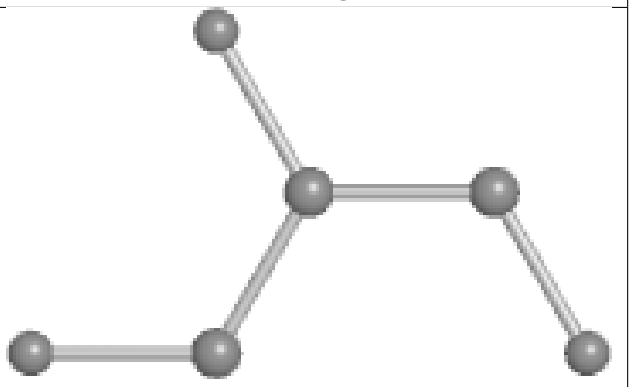
Bond lengths



Bond angles

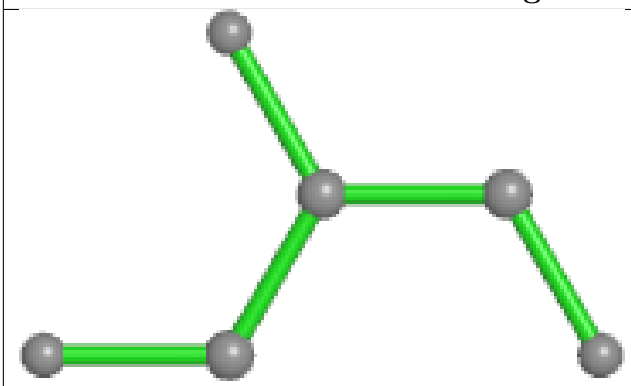


Torsions

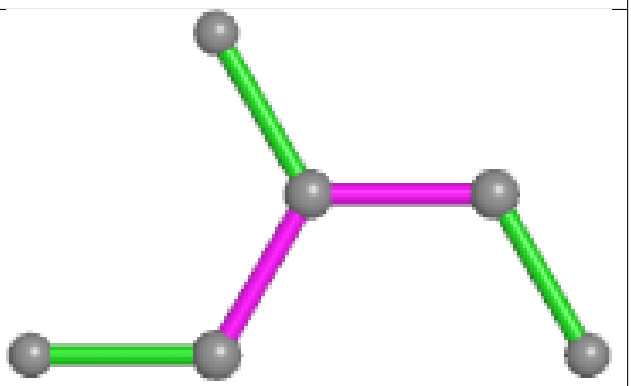


Rings

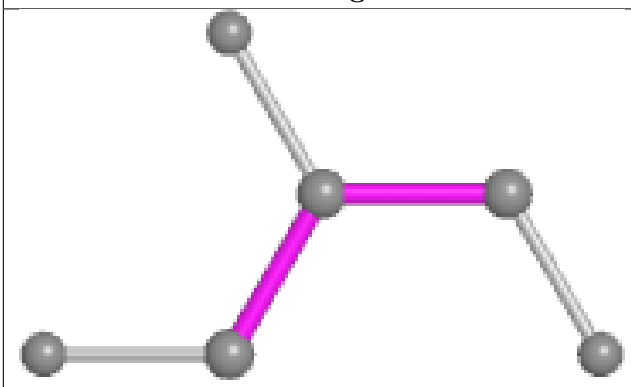
Ligand GOL C 312



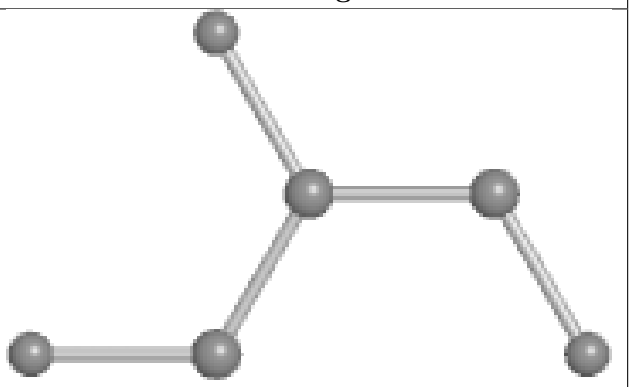
Bond lengths



Bond angles

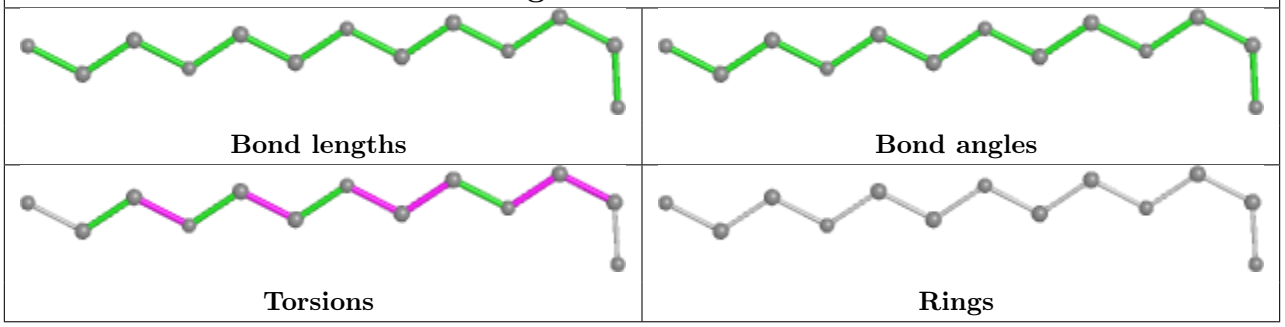


Torsions

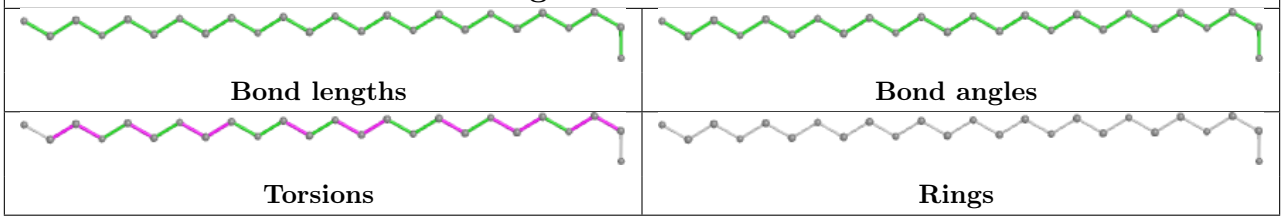


Rings

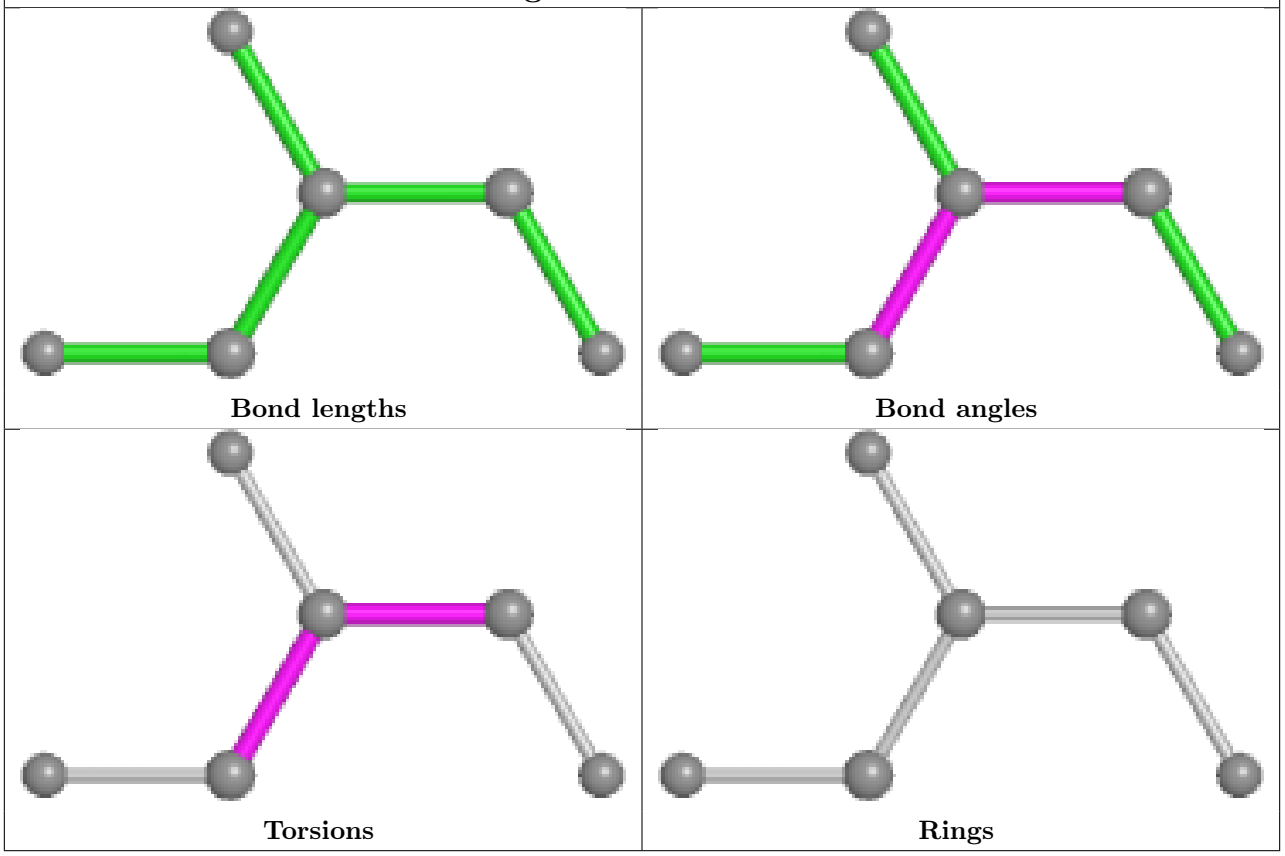
Ligand PG4 C 321



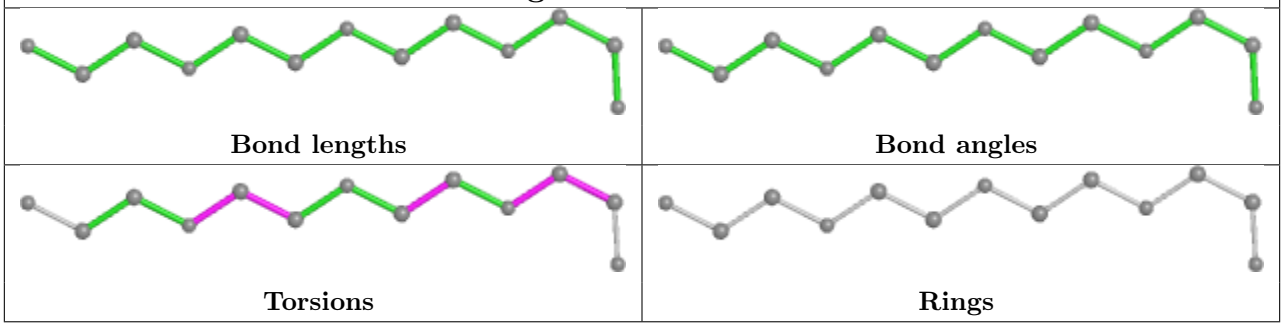
Ligand PE8 C 335



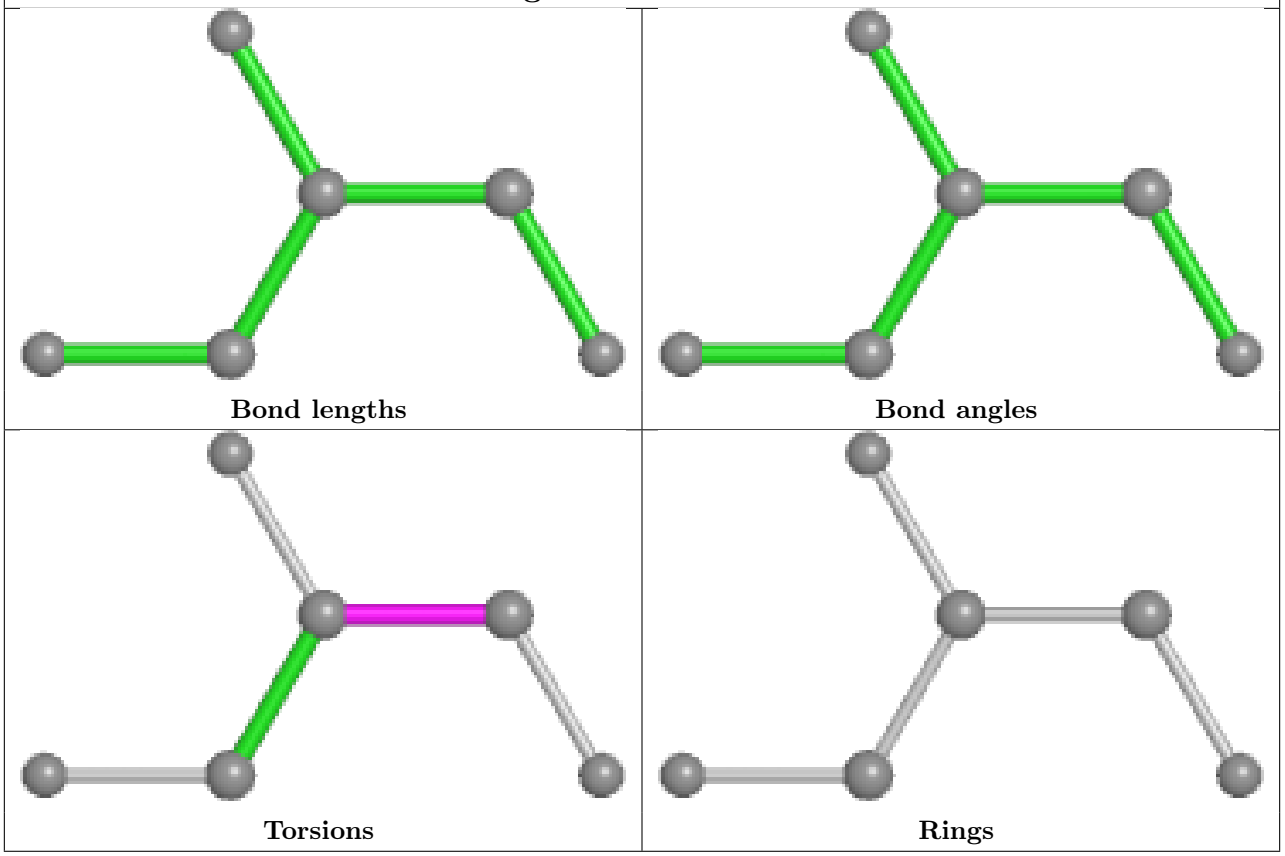
Ligand GOL C 311



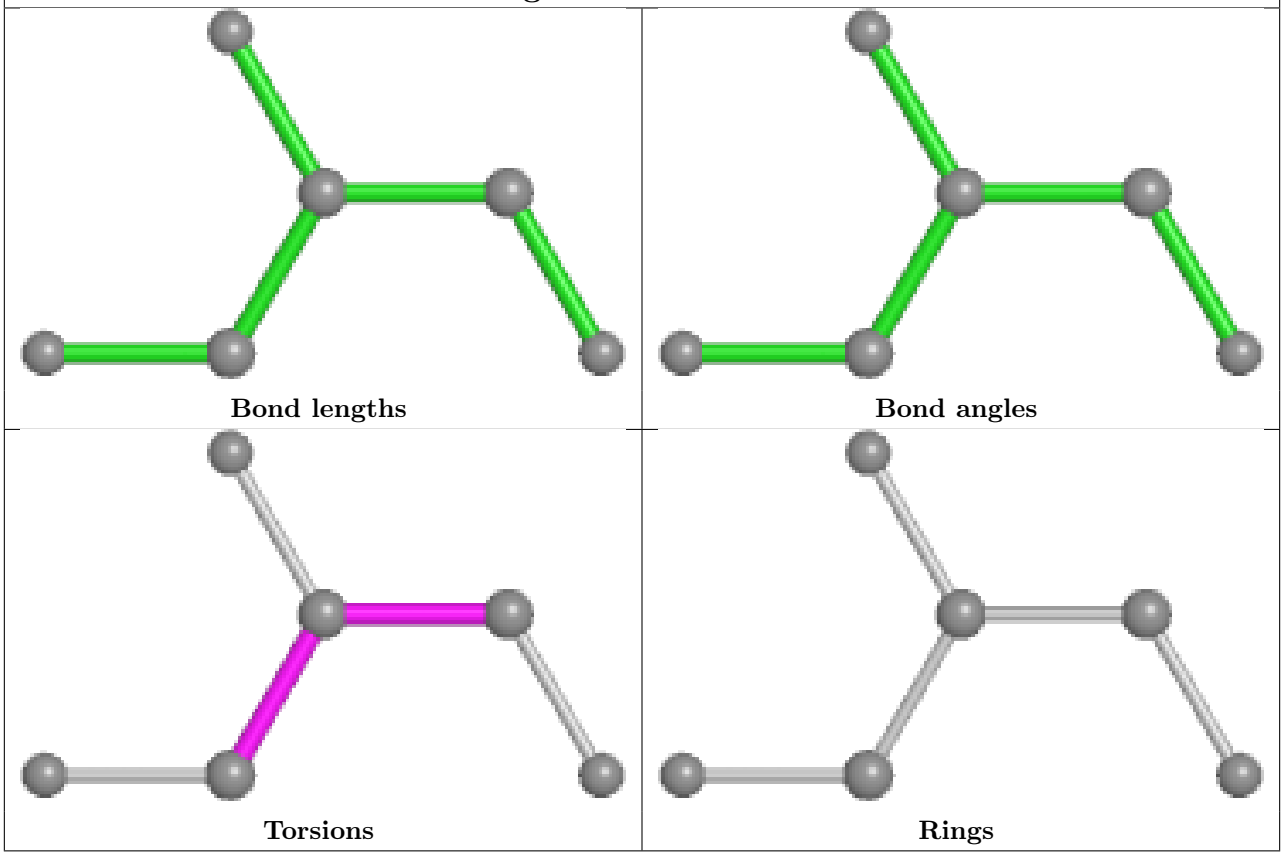
Ligand PG4 B 118



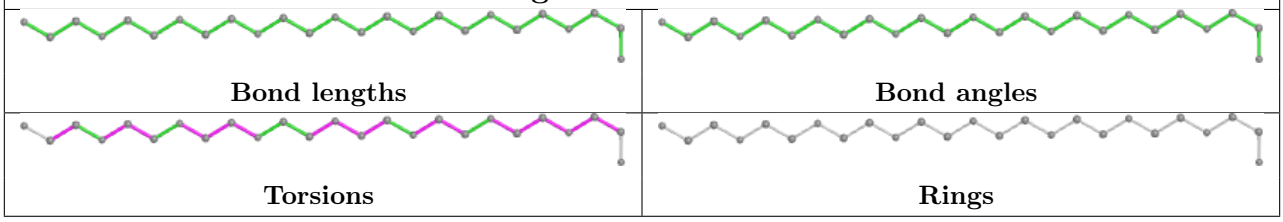
Ligand GOL A 307



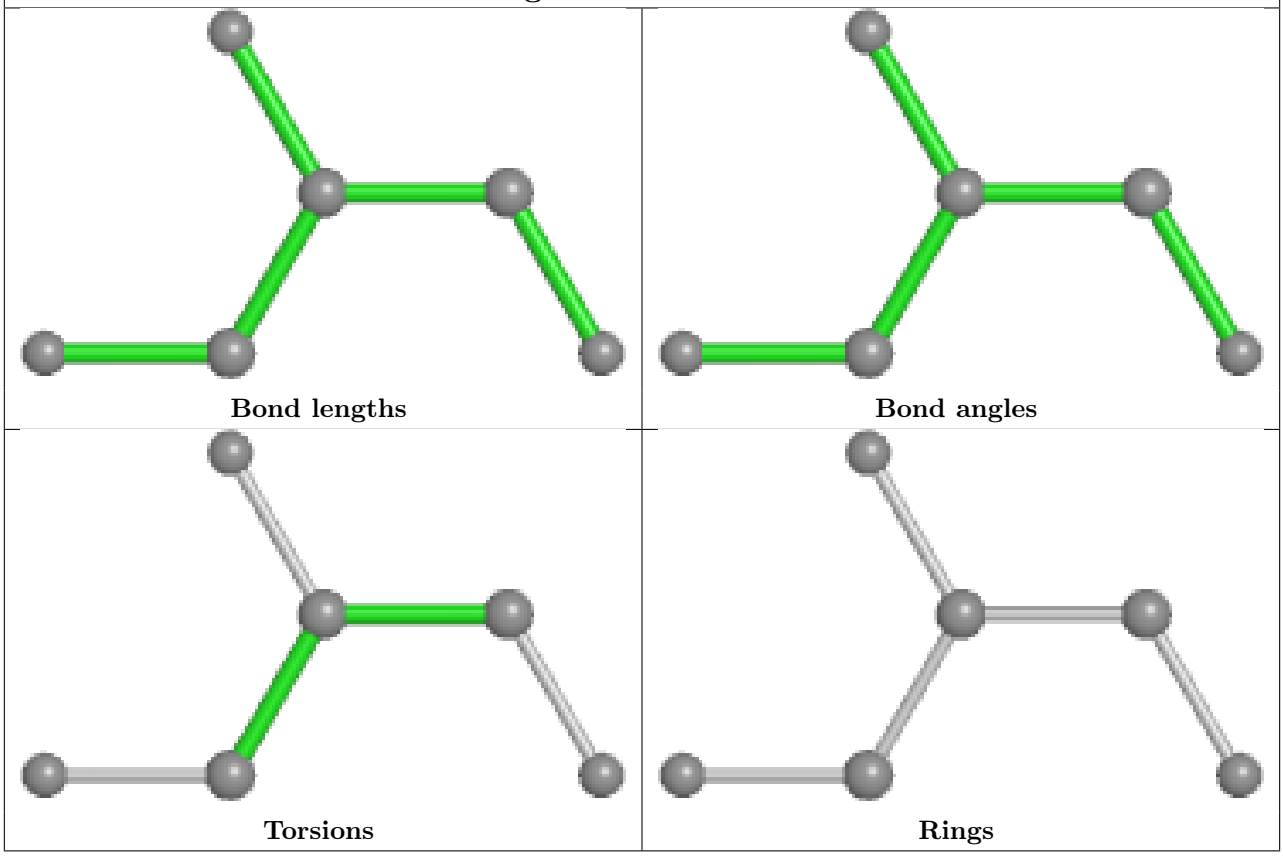
Ligand GOL D 106



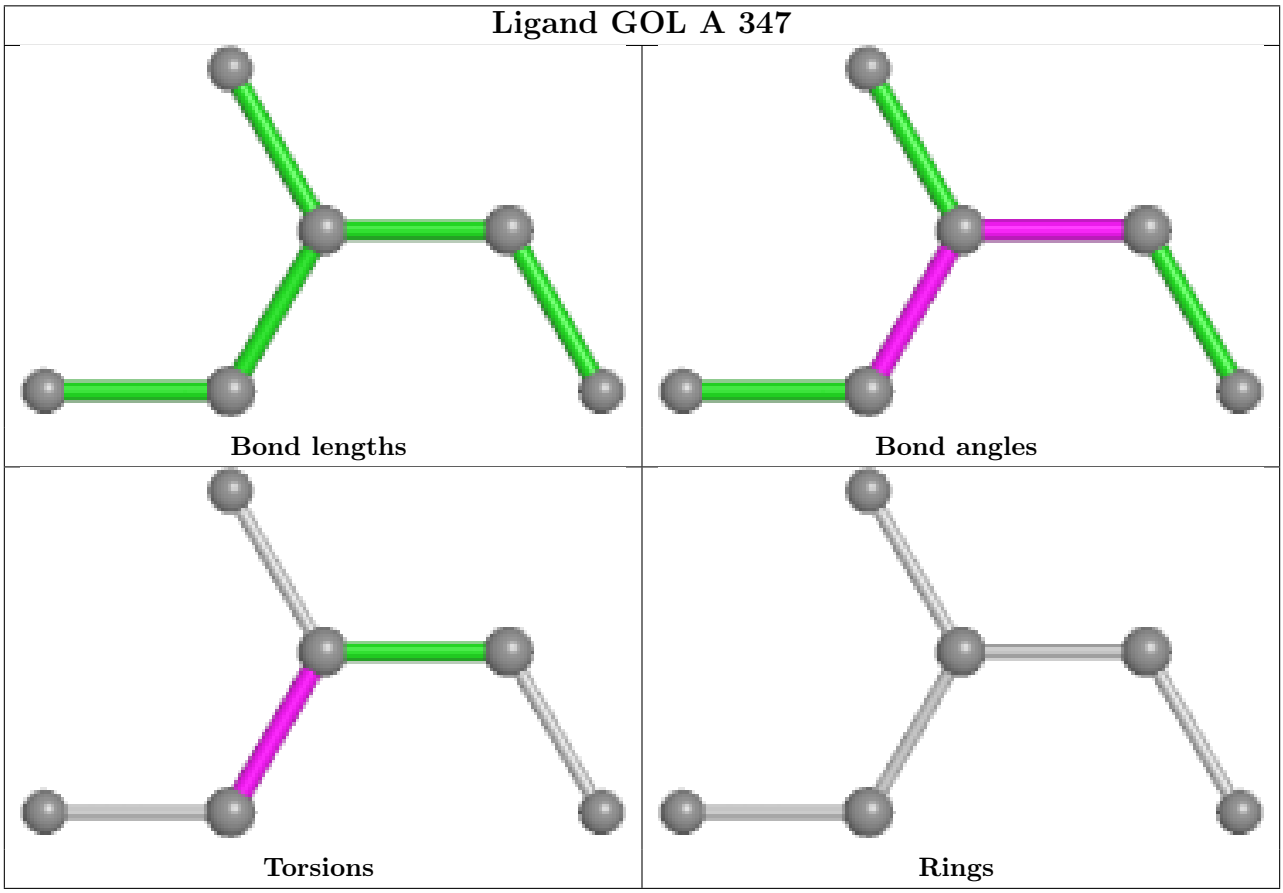
Ligand PE8 F 106



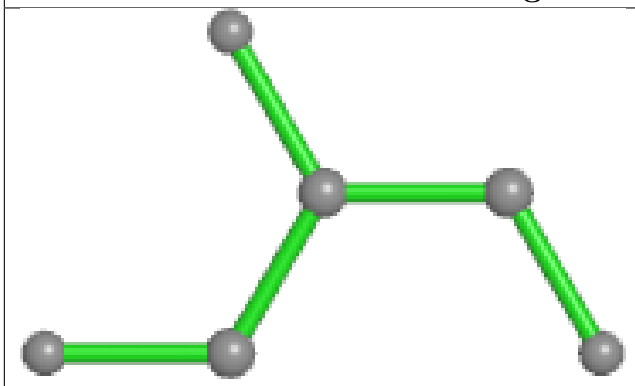
Ligand GOL B 154



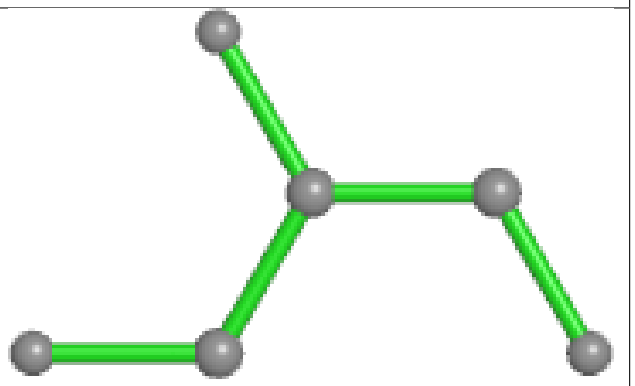
Ligand GOL A 347



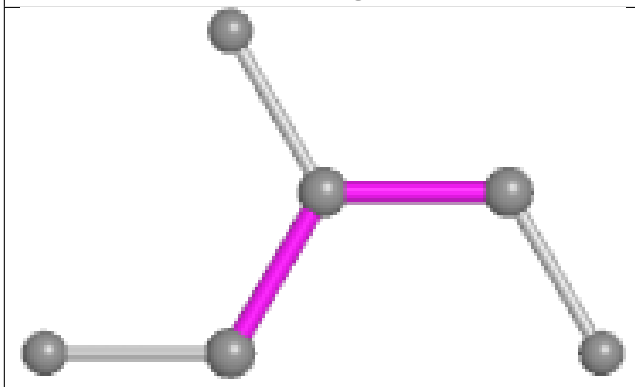
Ligand GOL A 311



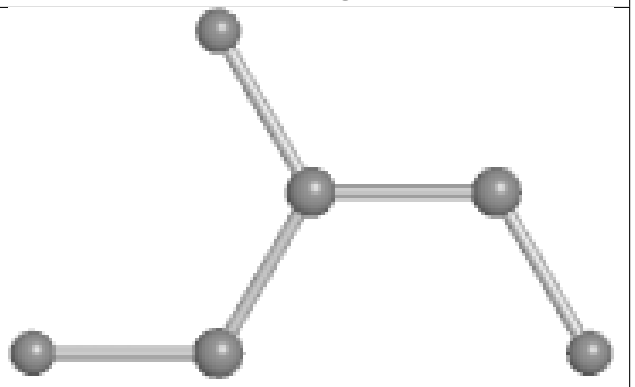
Bond lengths



Bond angles

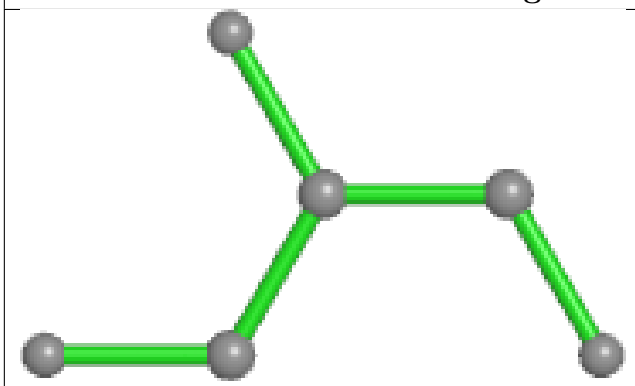


Torsions

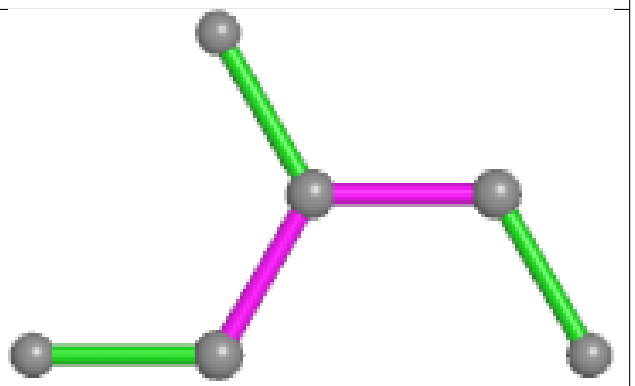


Rings

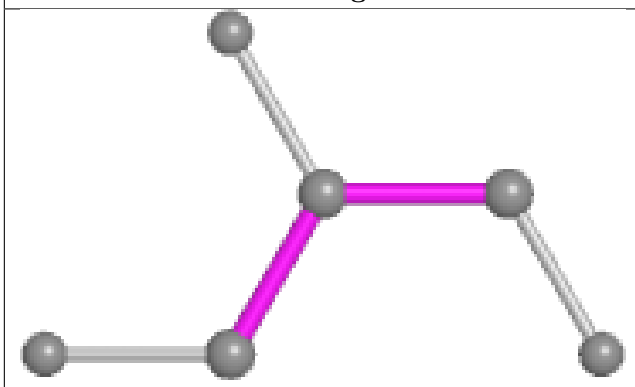
Ligand GOL A 345



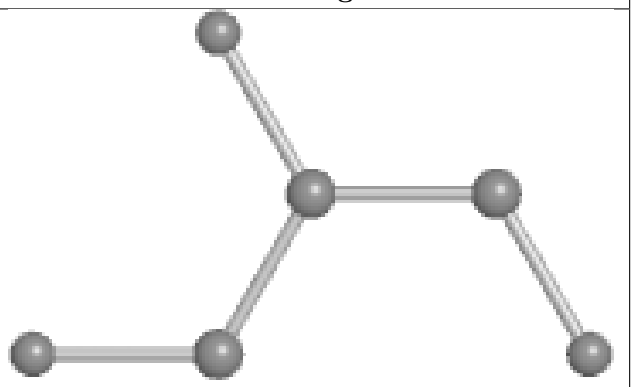
Bond lengths



Bond angles

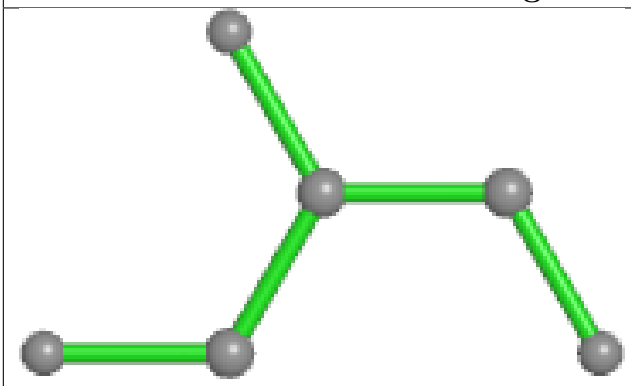


Torsions

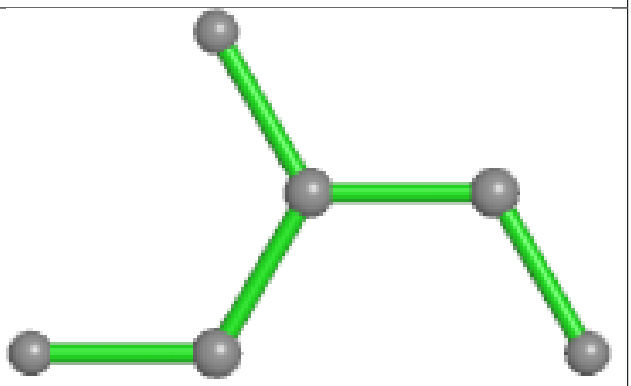


Rings

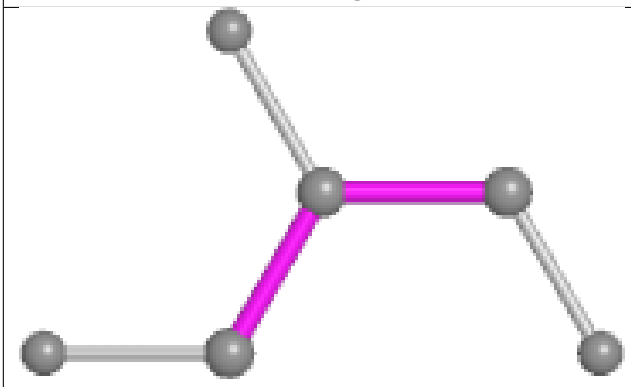
Ligand GOL C 307



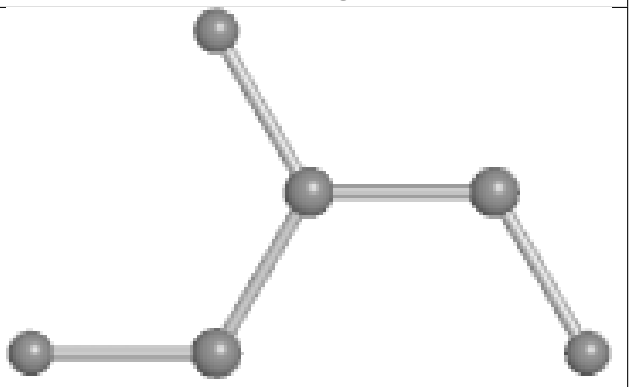
Bond lengths



Bond angles

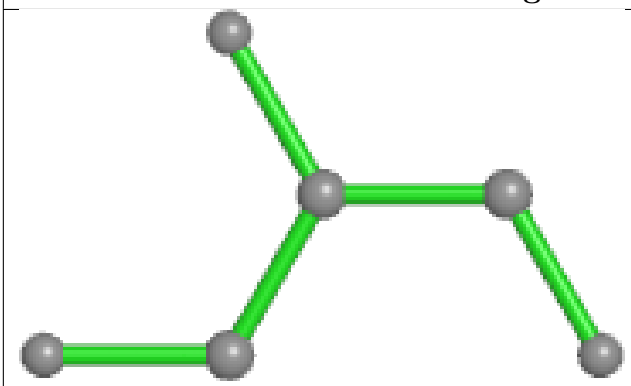


Torsions

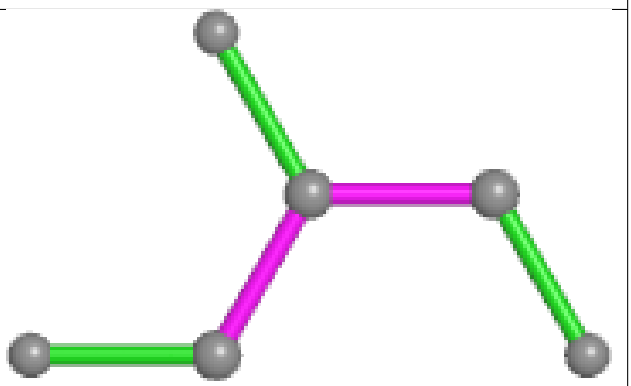


Rings

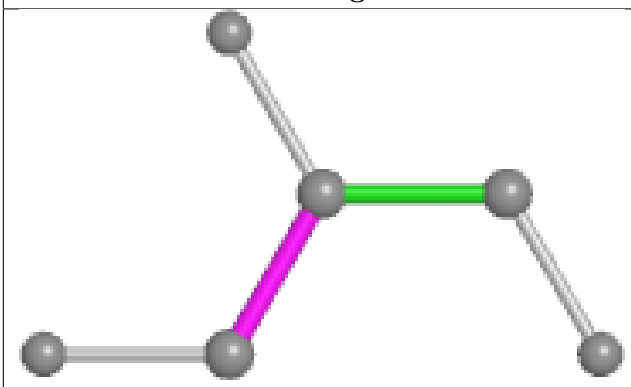
Ligand GOL B 110



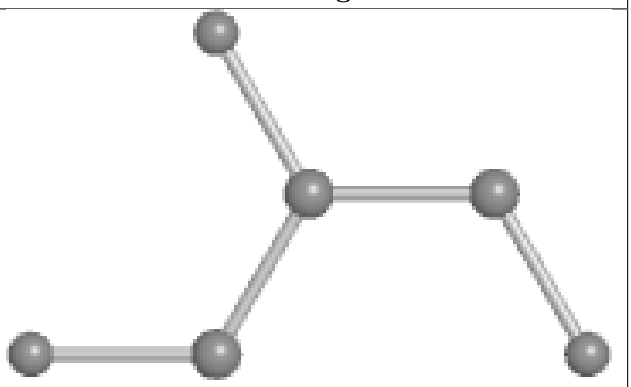
Bond lengths



Bond angles

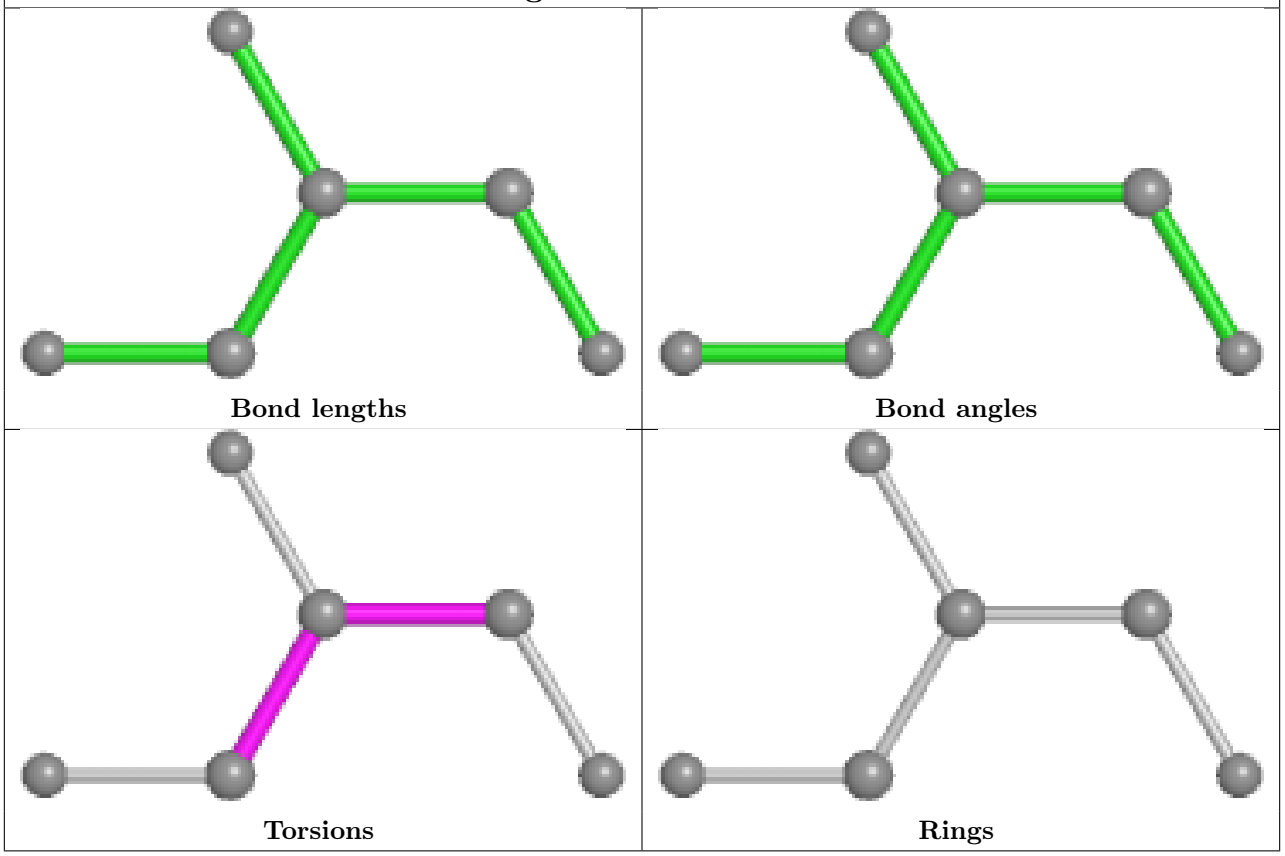


Torsions

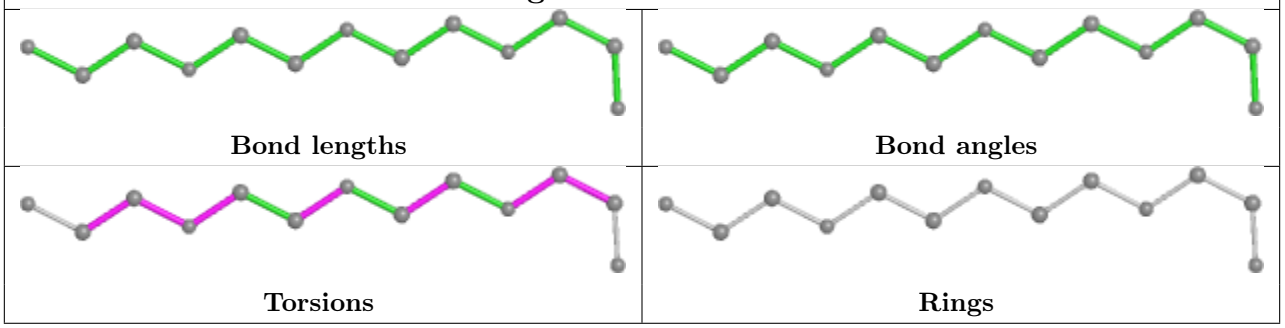


Rings

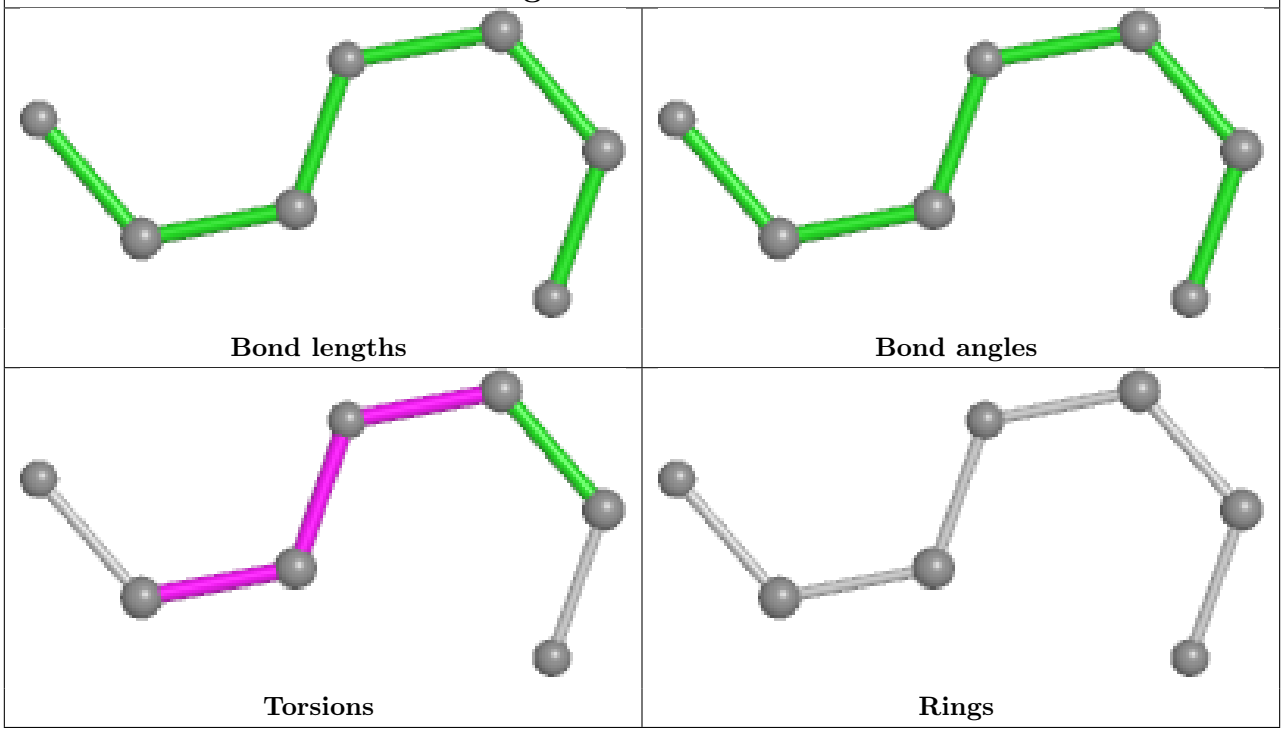
Ligand GOL E 102



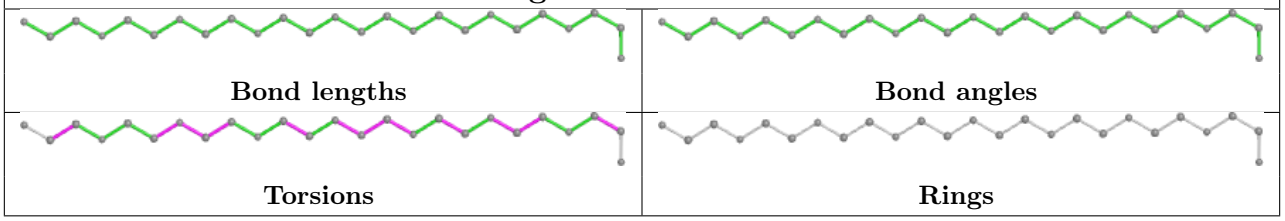
Ligand PG4 B 119



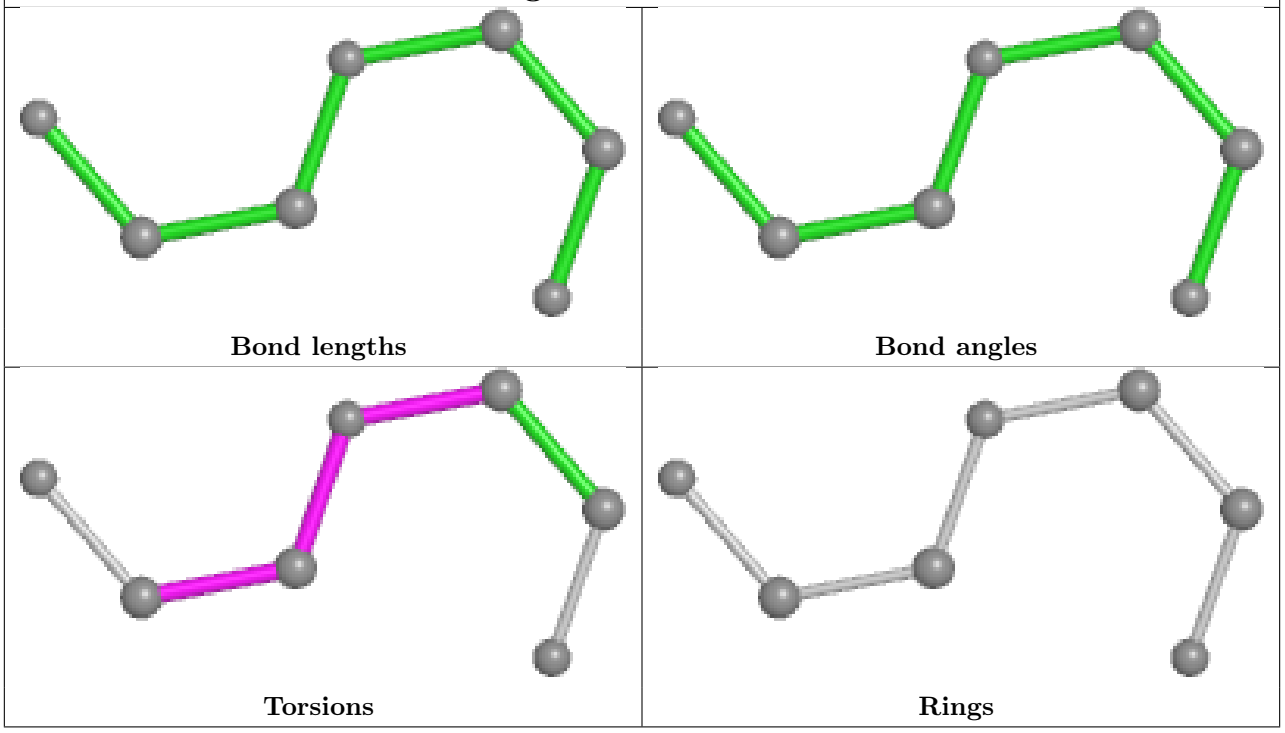
Ligand PEG A 331



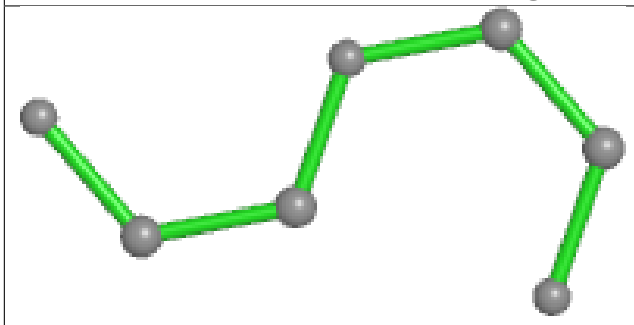
Ligand PE8 A 344



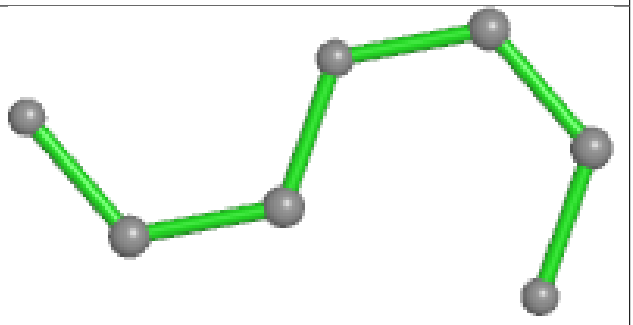
Ligand PEG C 303



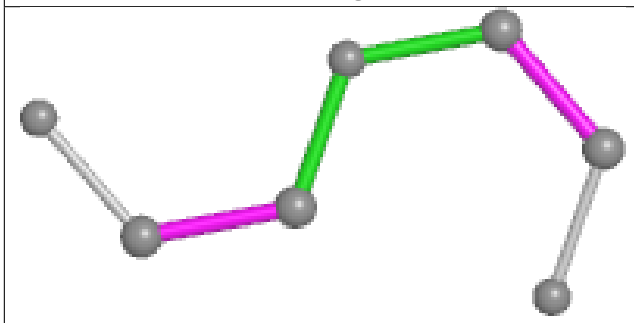
Ligand PEG B 128



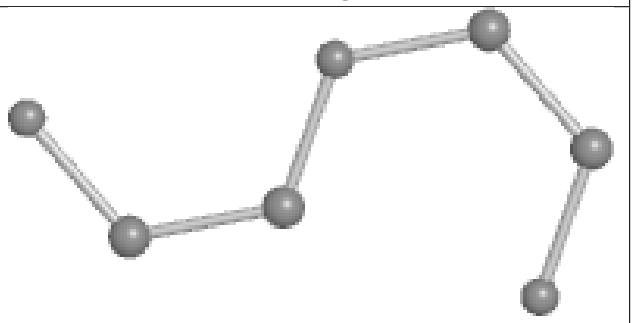
Bond lengths



Bond angles

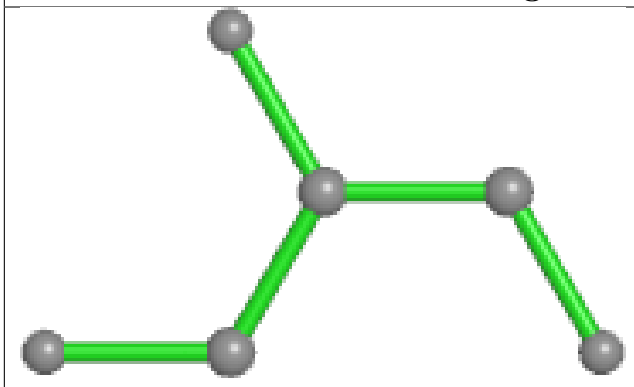


Torsions

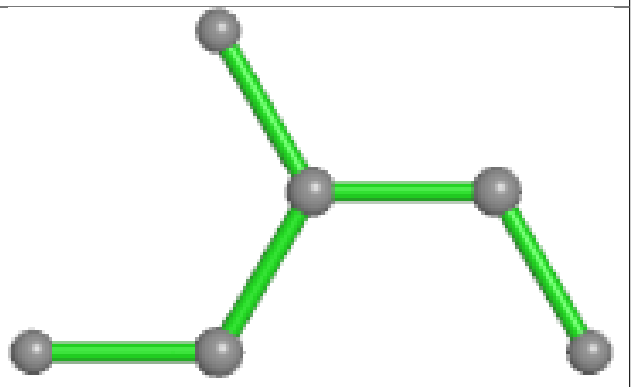


Rings

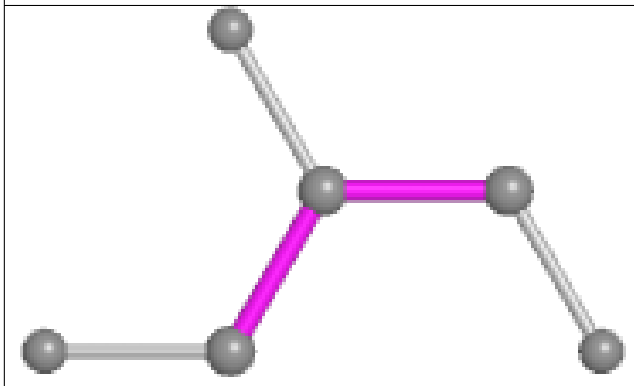
Ligand GOL D 107



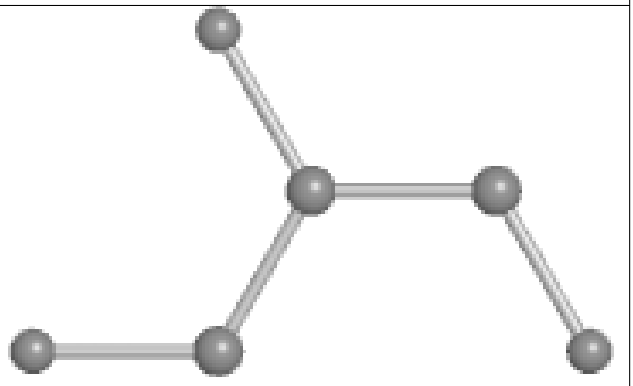
Bond lengths



Bond angles

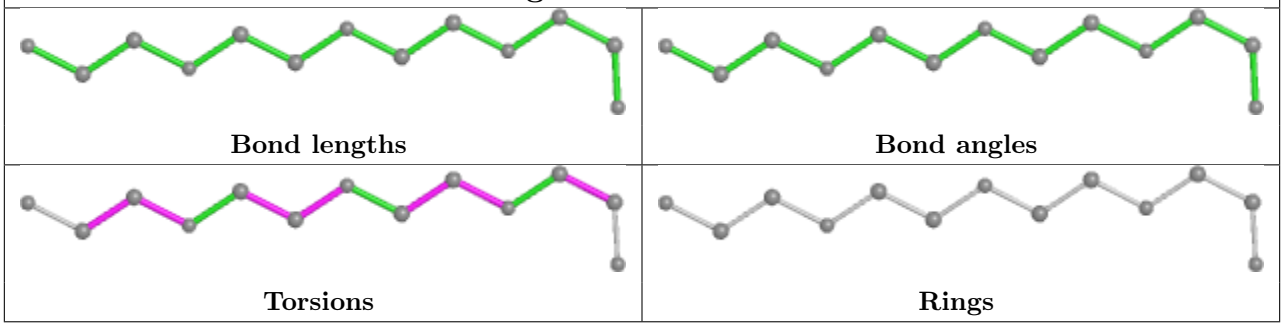


Torsions

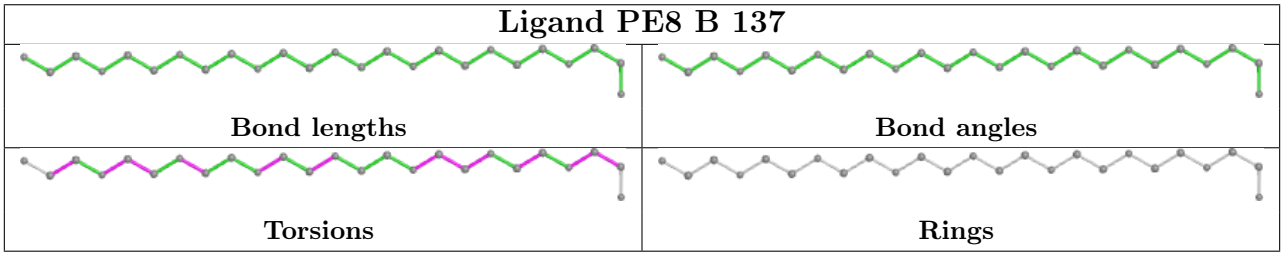


Rings

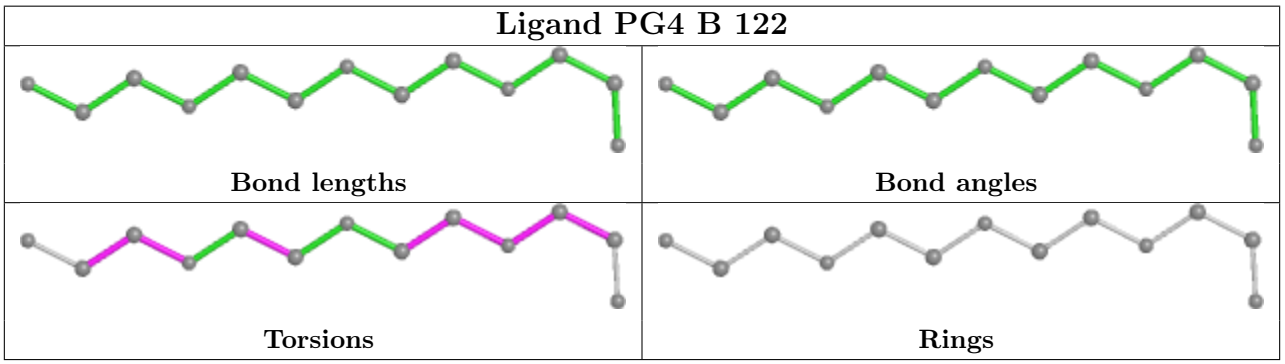
Ligand PG4 D 117



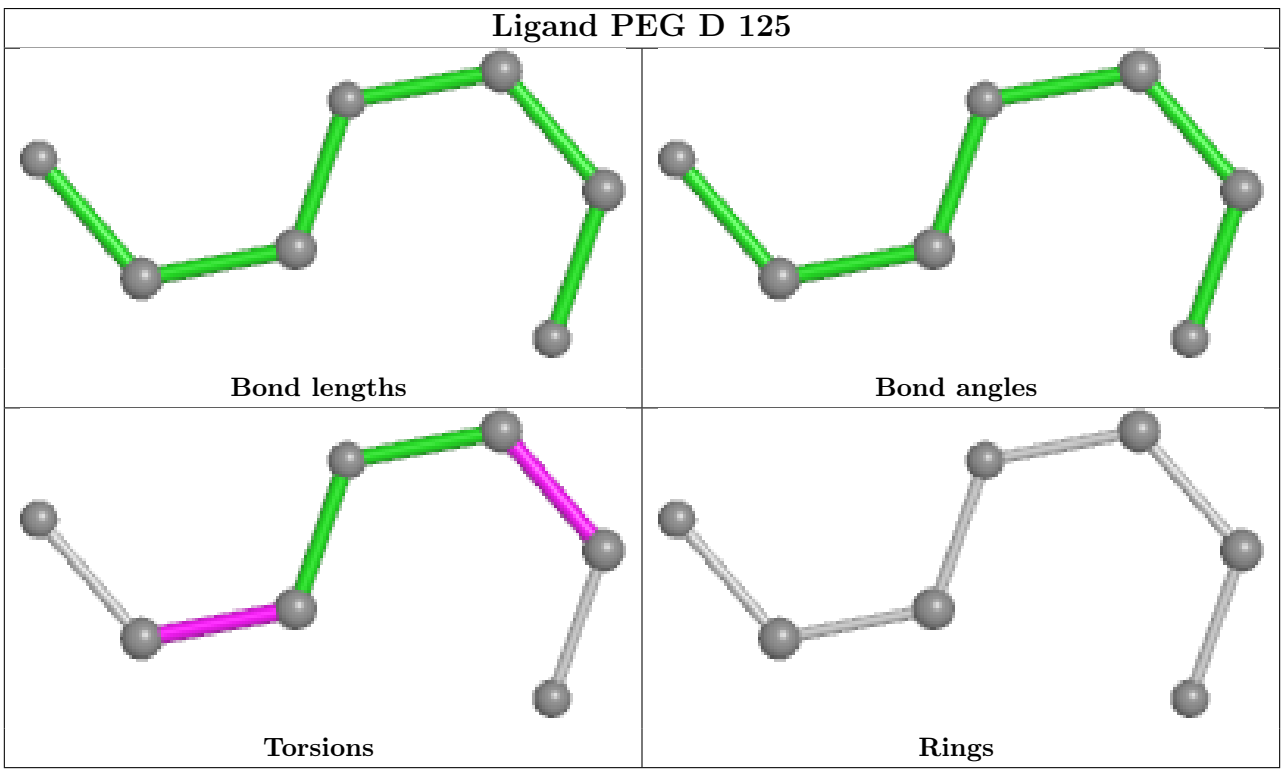
Ligand PE8 B 137



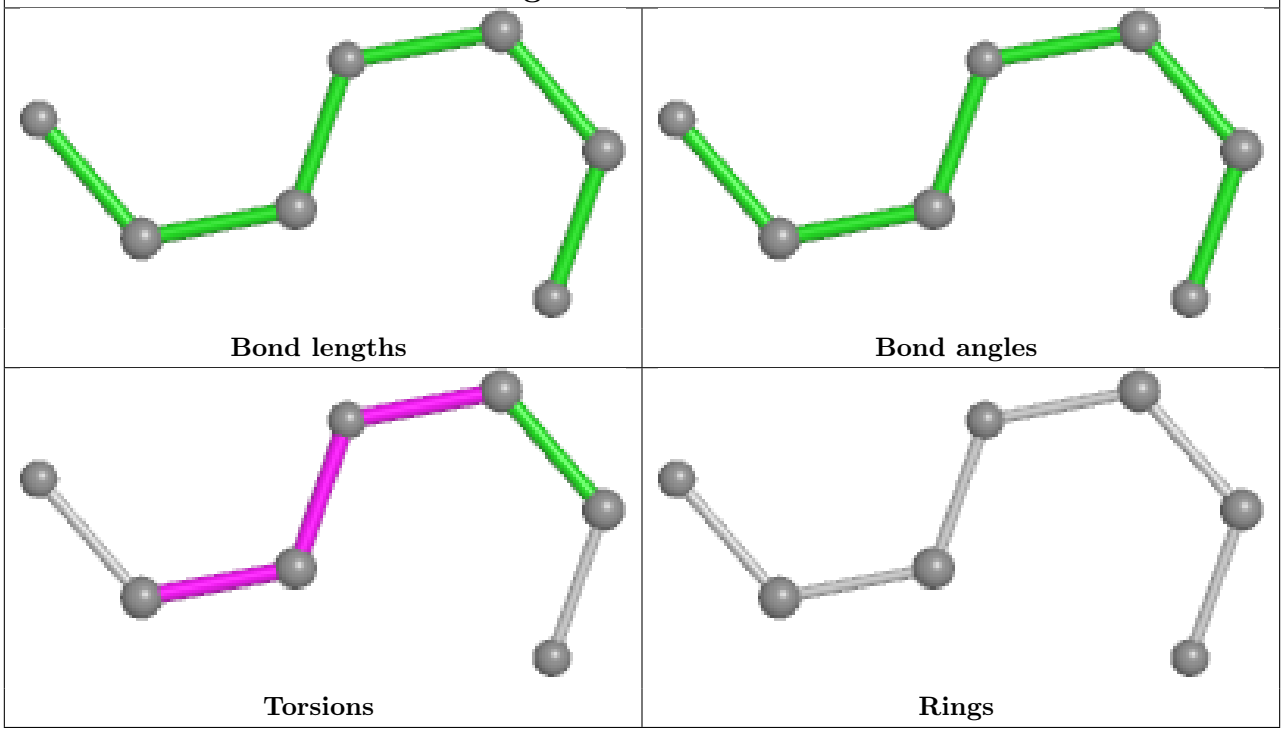
Ligand PG4 B 122



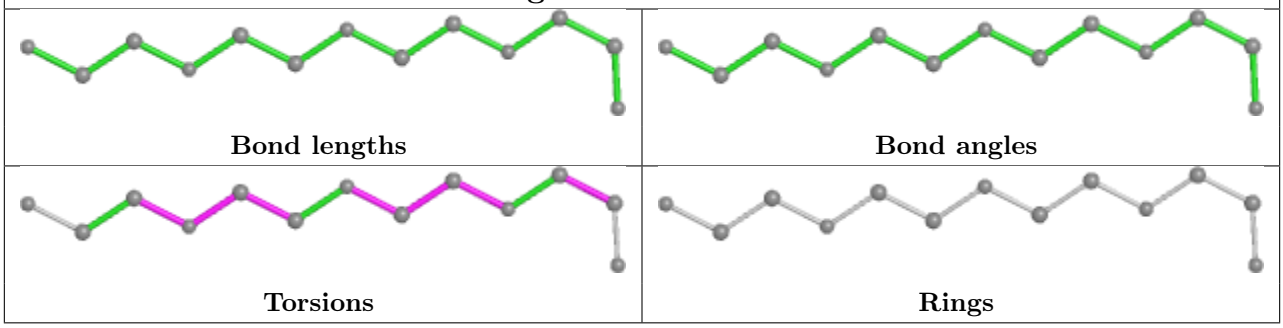
Ligand PEG D 125



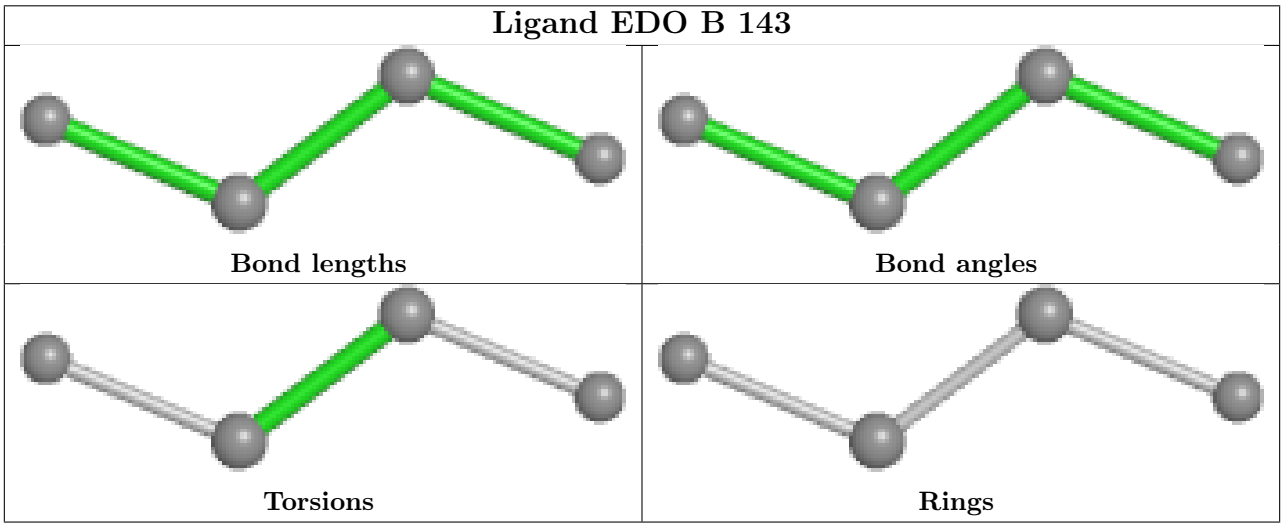
Ligand PEG D 121



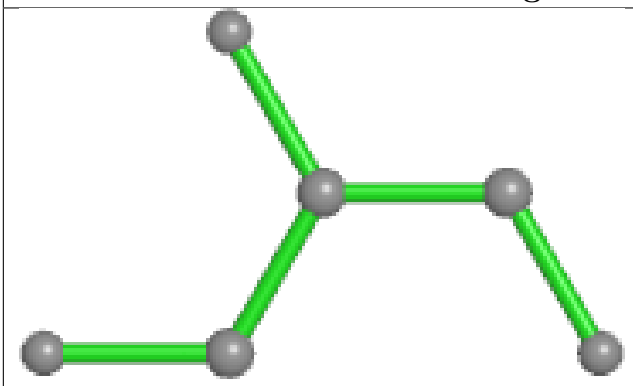
Ligand PG4 C 325



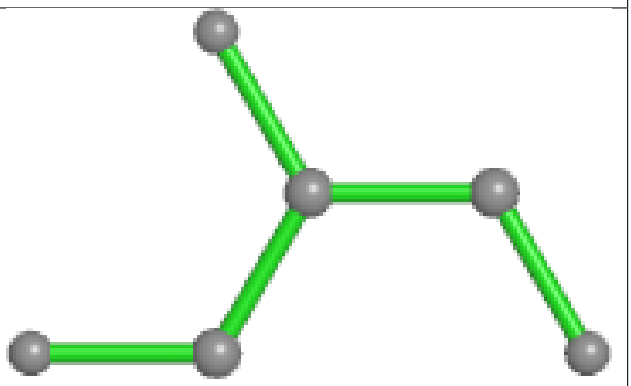
Ligand EDO B 143



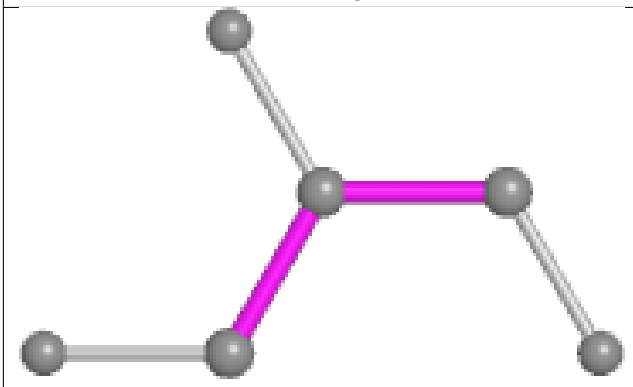
Ligand GOL B 111



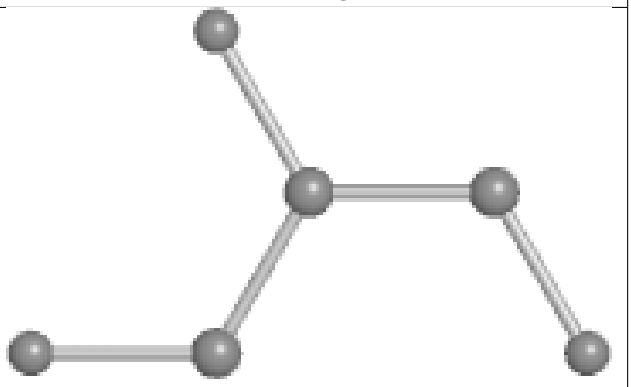
Bond lengths



Bond angles

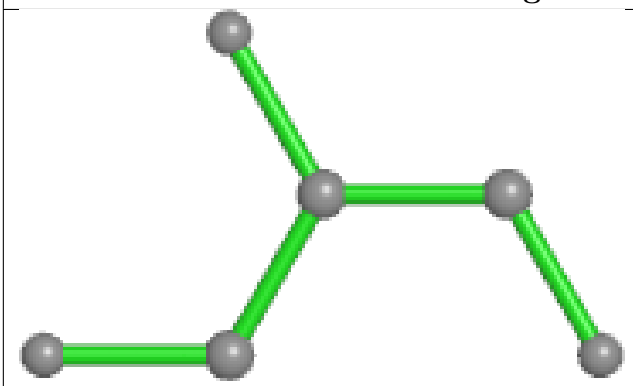


Torsions

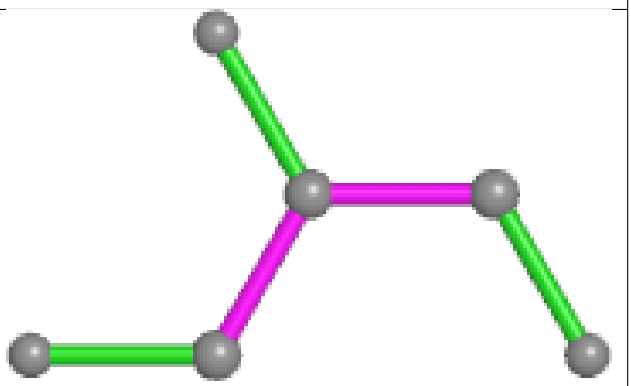


Rings

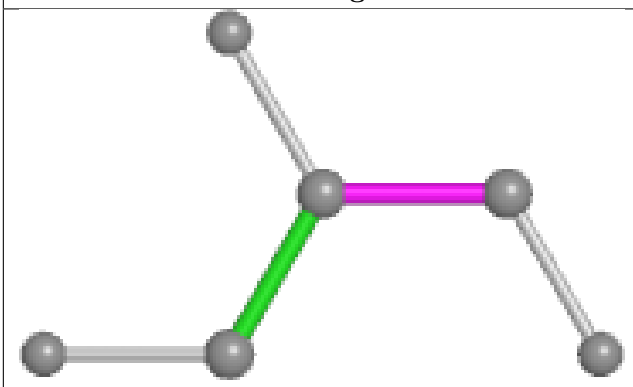
Ligand GOL C 337



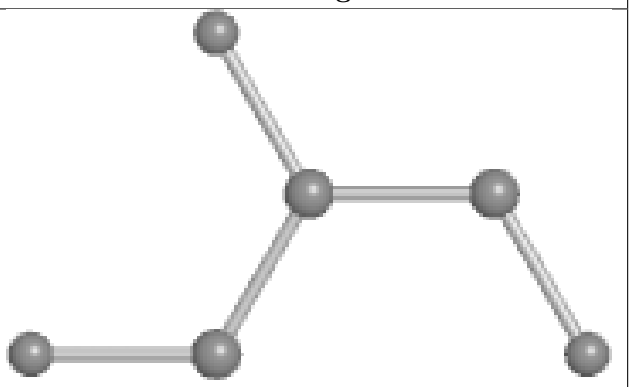
Bond lengths



Bond angles

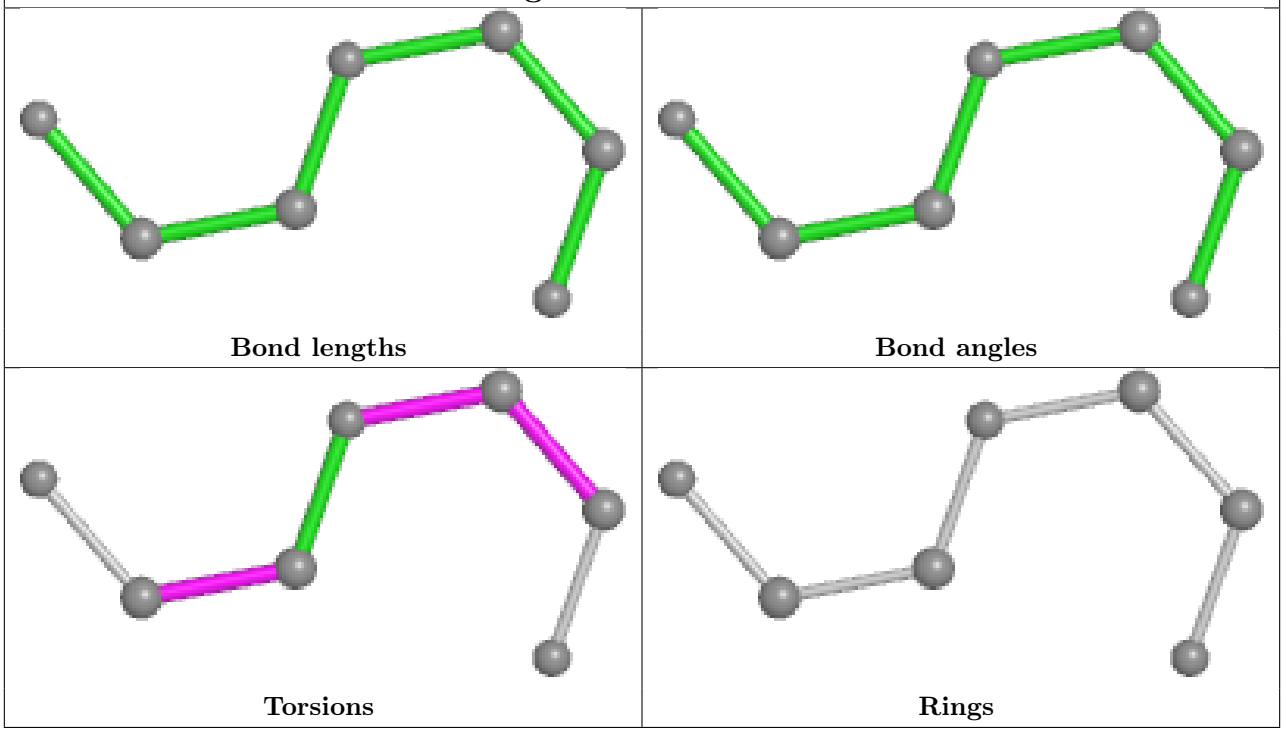


Torsions

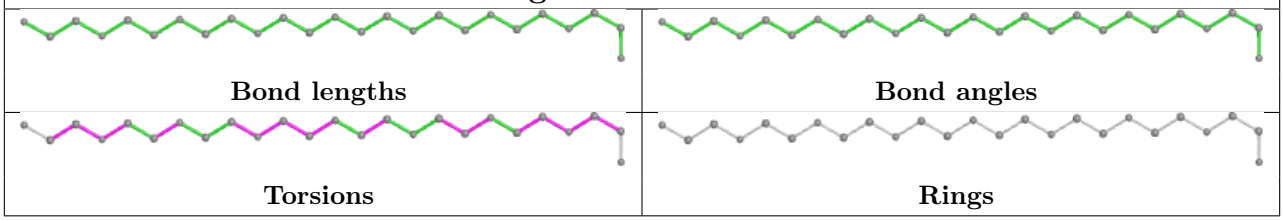


Rings

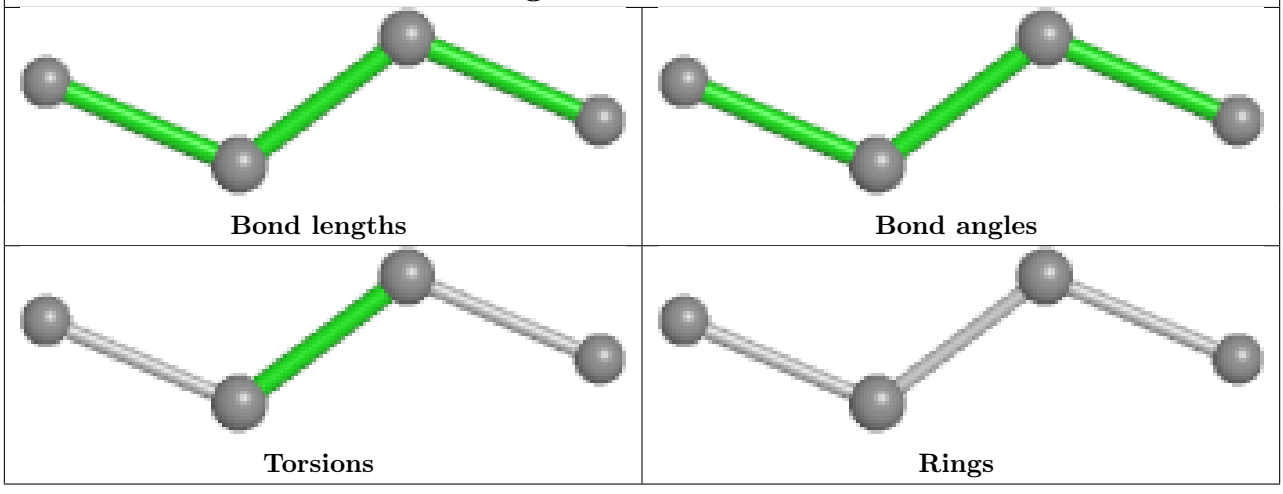
Ligand PEG B 134



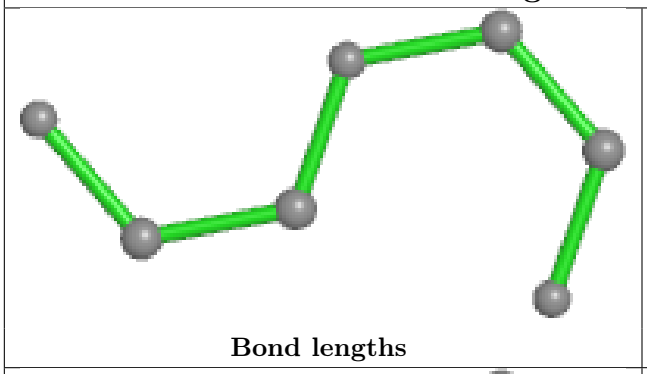
Ligand PE8 A 343



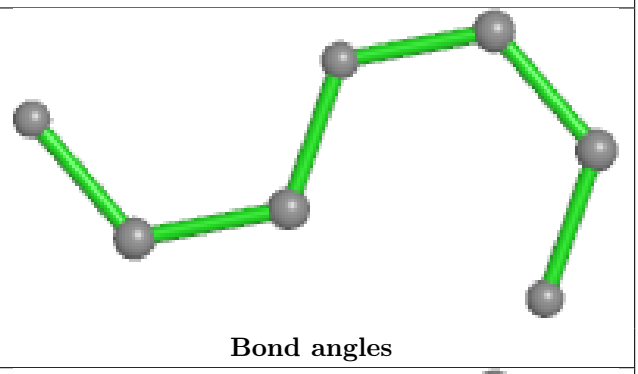
Ligand EDO E 101



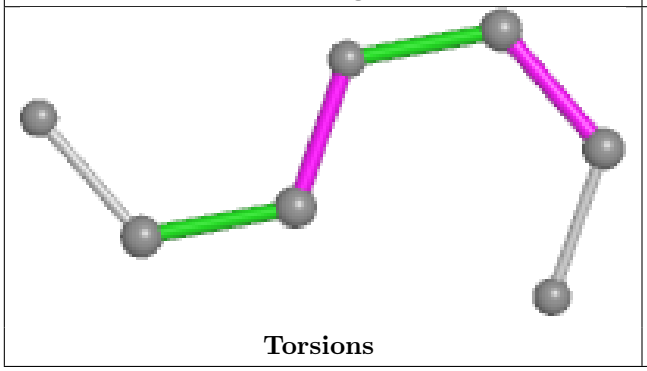
Ligand PEG D 128



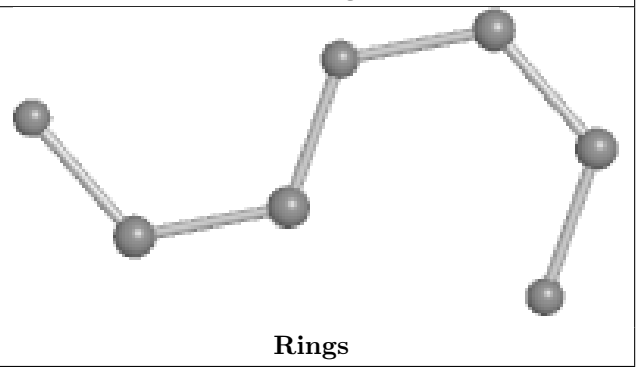
Bond lengths



Bond angles

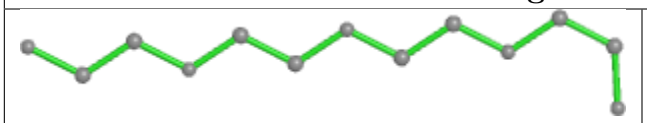


Torsions

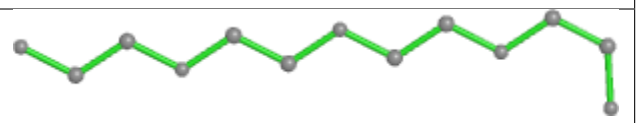


Rings

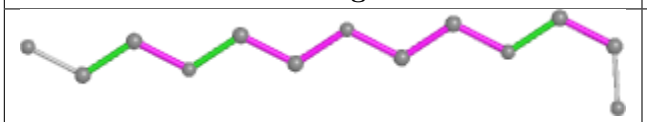
Ligand PG4 C 324



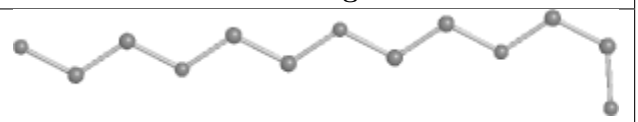
Bond lengths



Bond angles

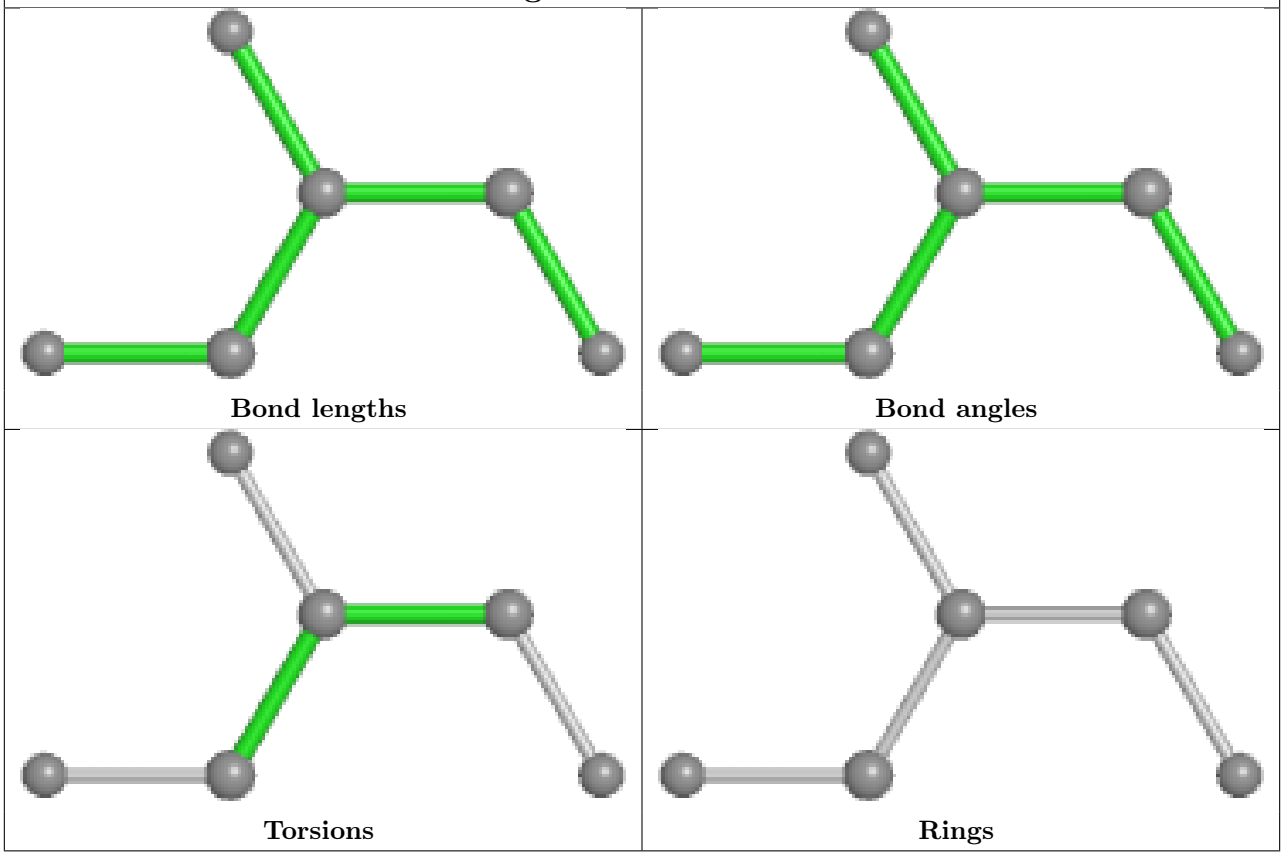


Torsions

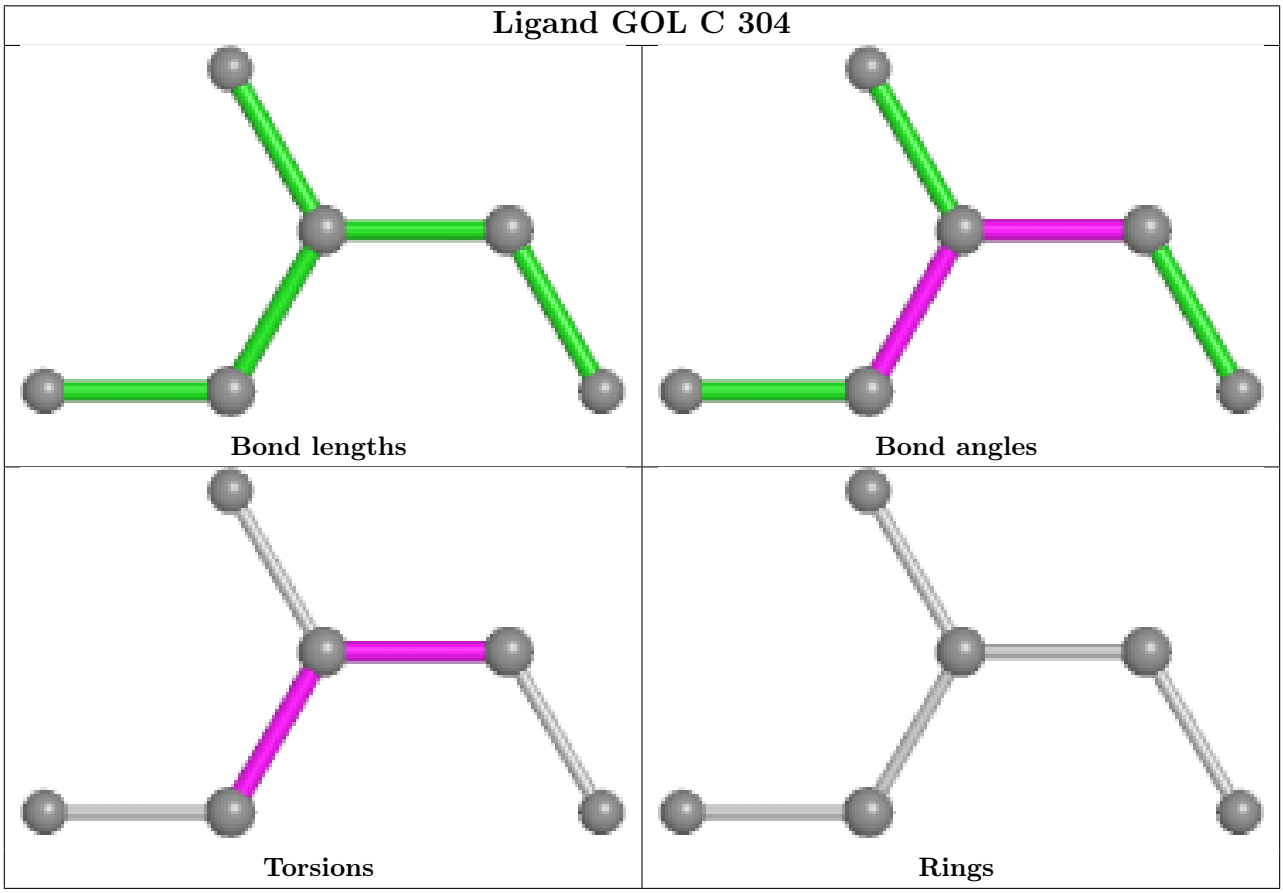


Rings

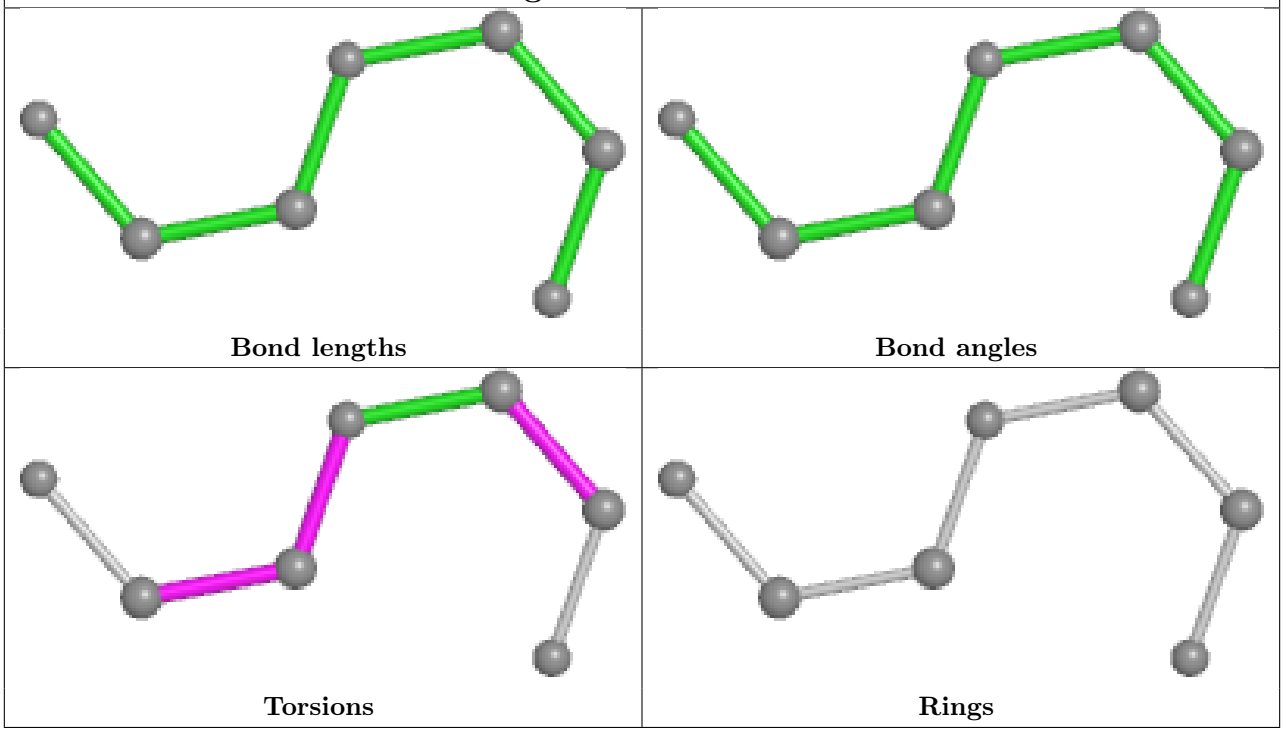
Ligand GOL B 105



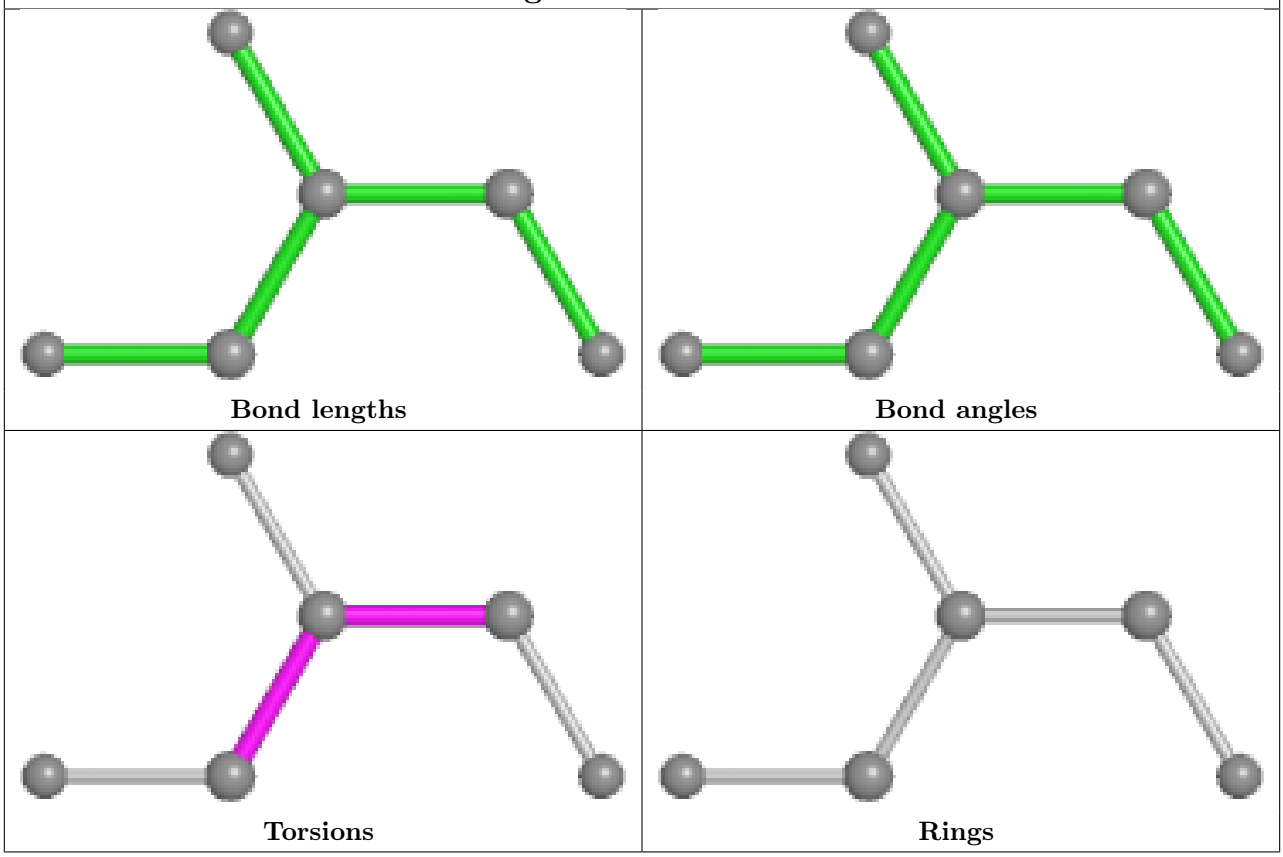
Ligand GOL C 304



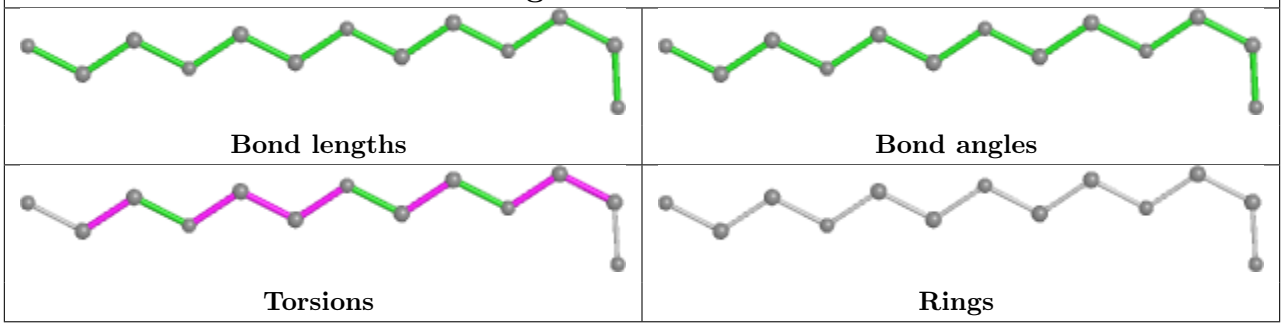
Ligand PEG C 332



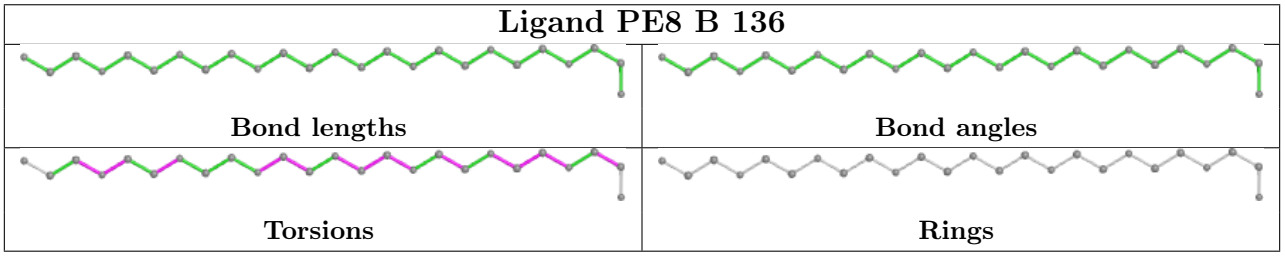
Ligand GOL B 103



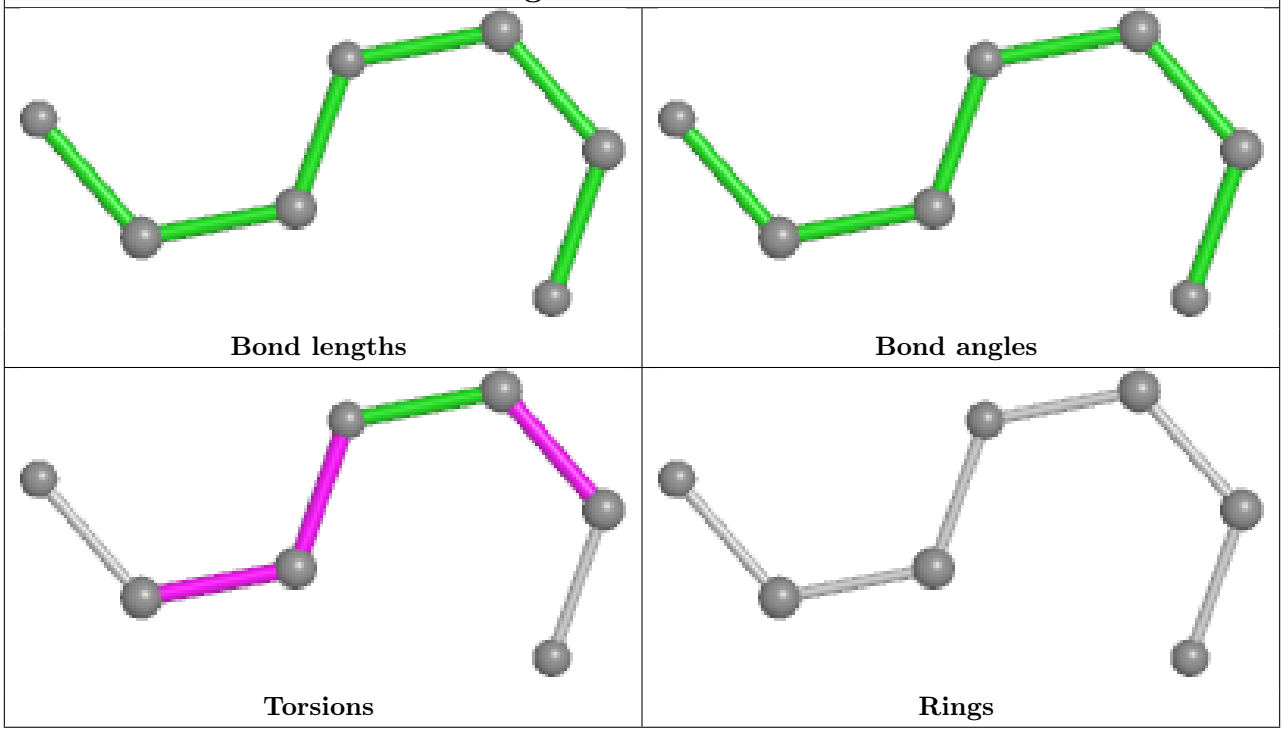
Ligand PG4 D 103



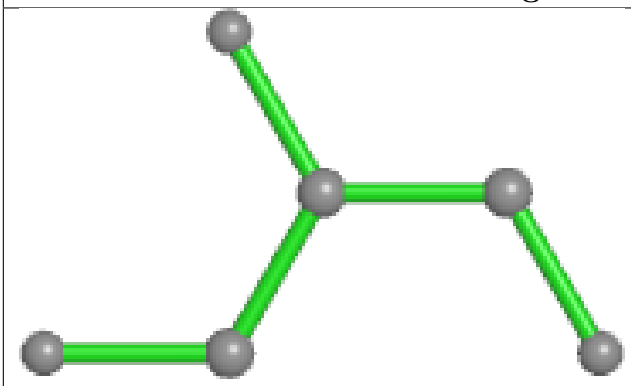
Ligand PE8 B 136



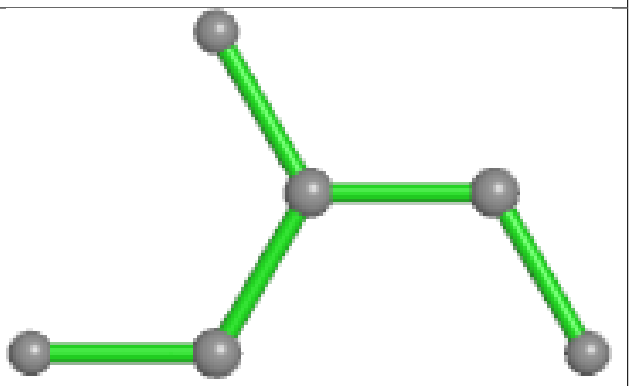
Ligand PEG C 331



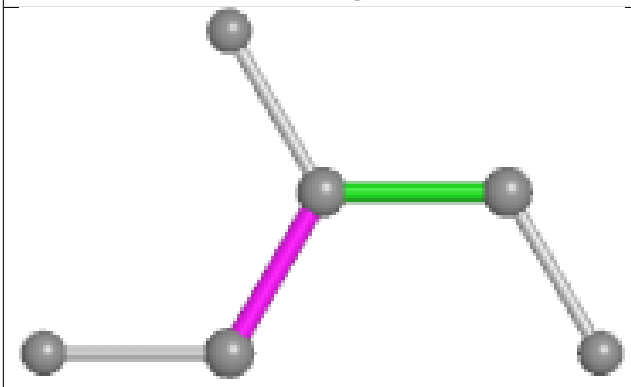
Ligand GOL D 137



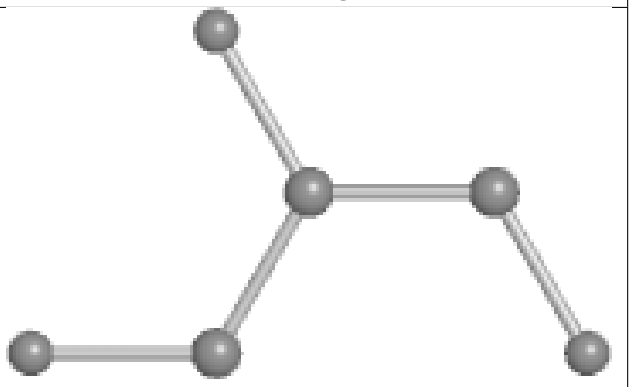
Bond lengths



Bond angles

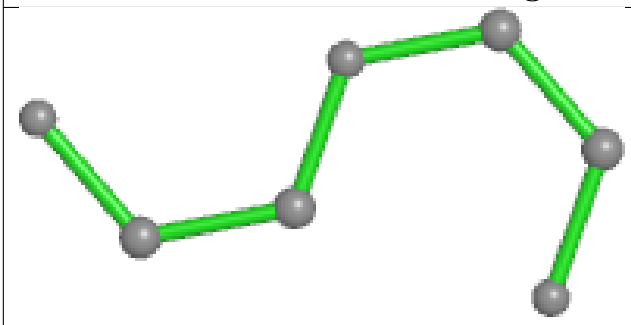


Torsions

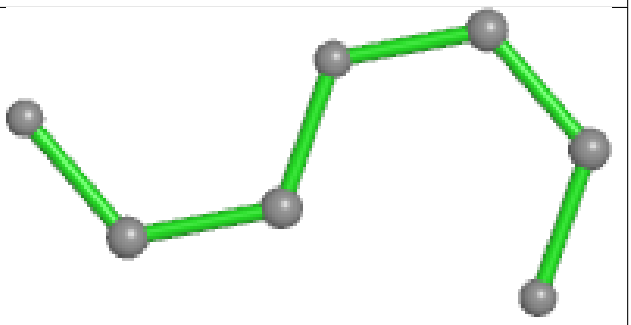


Rings

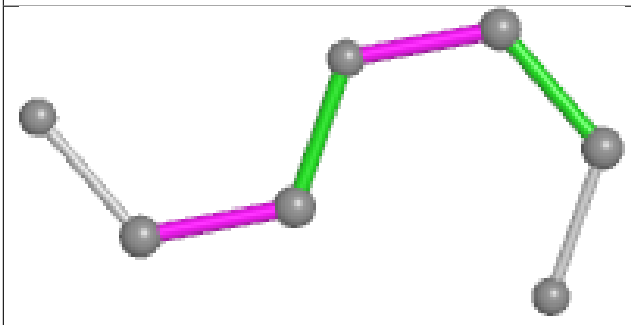
Ligand PEG B 129



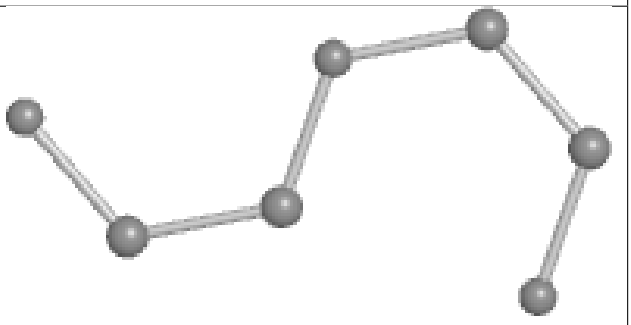
Bond lengths



Bond angles

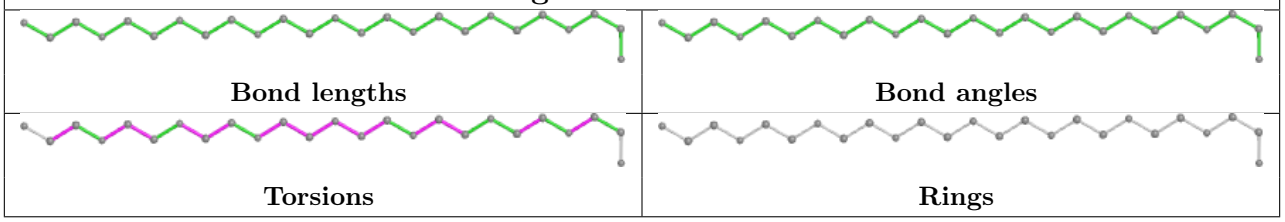


Torsions

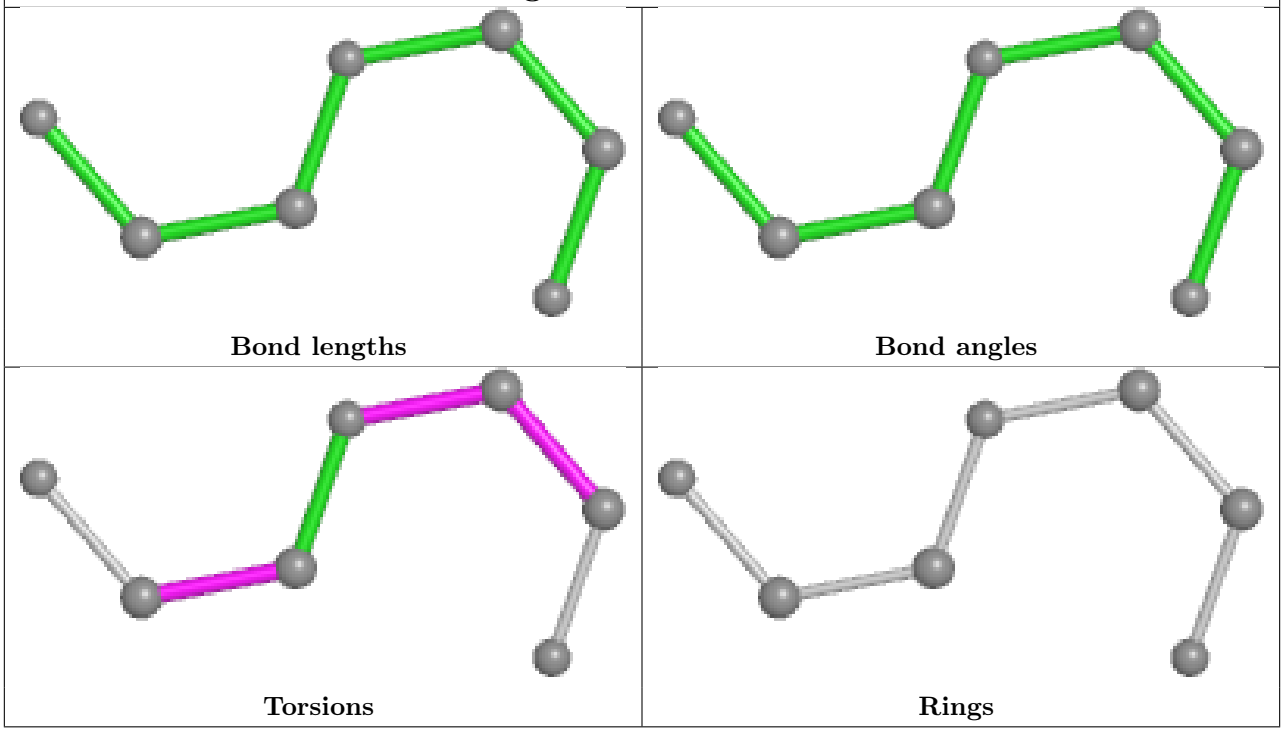


Rings

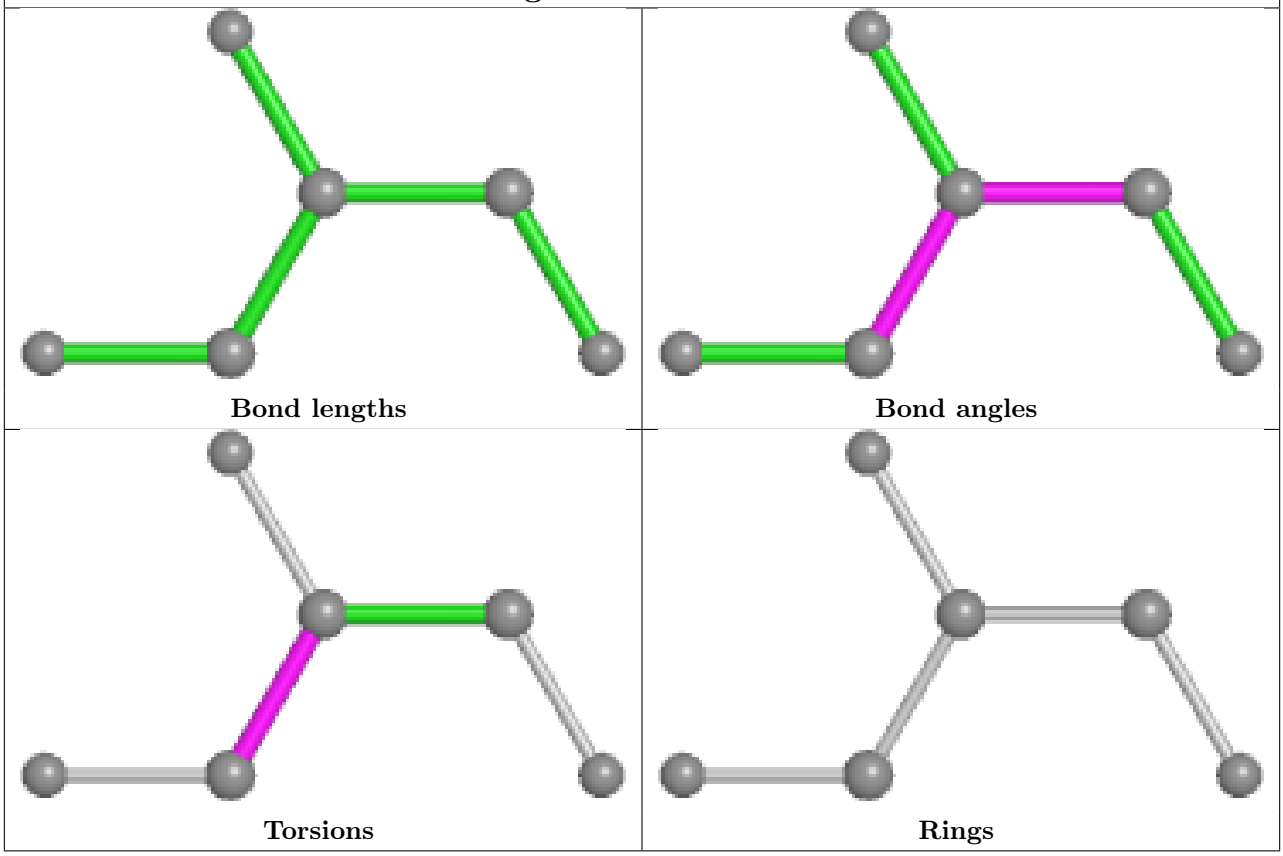
Ligand PE8 F 102



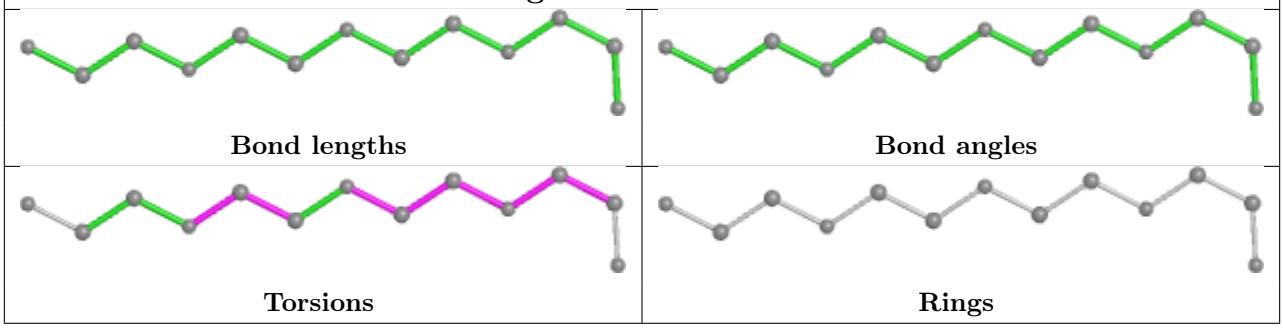
Ligand PEG A 335



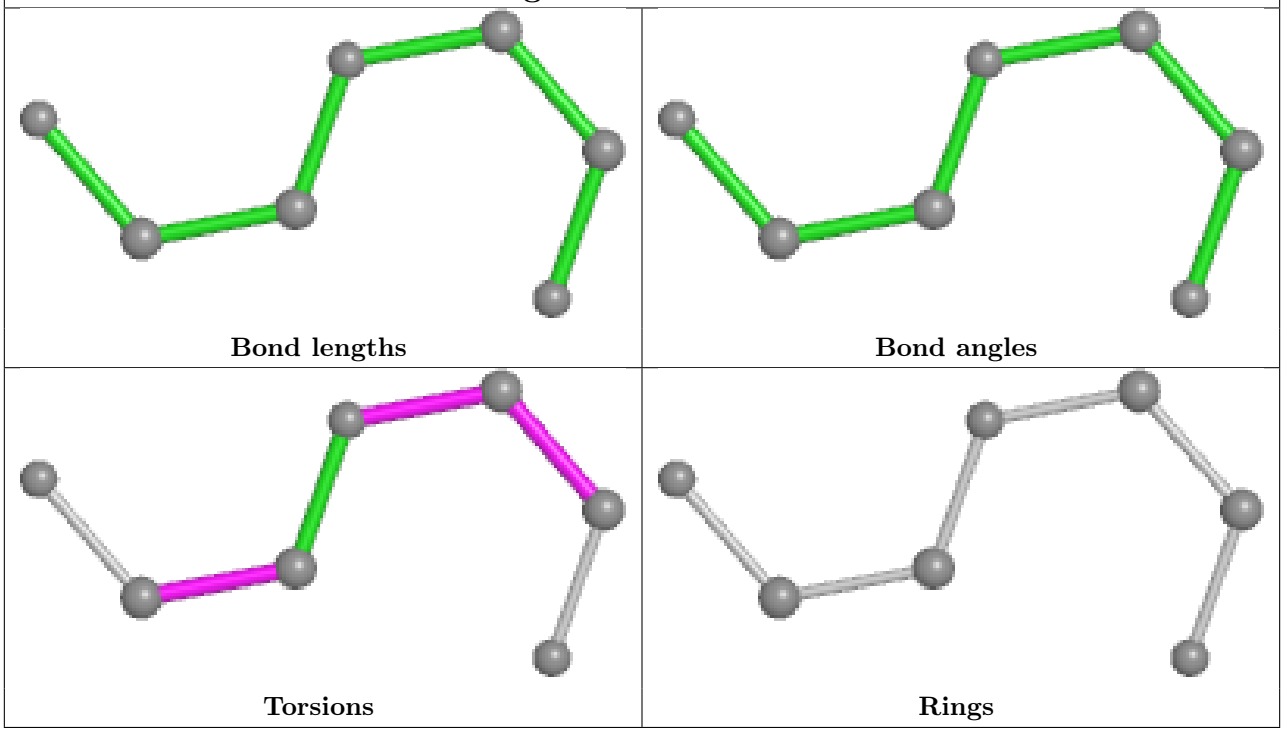
Ligand GOL B 140



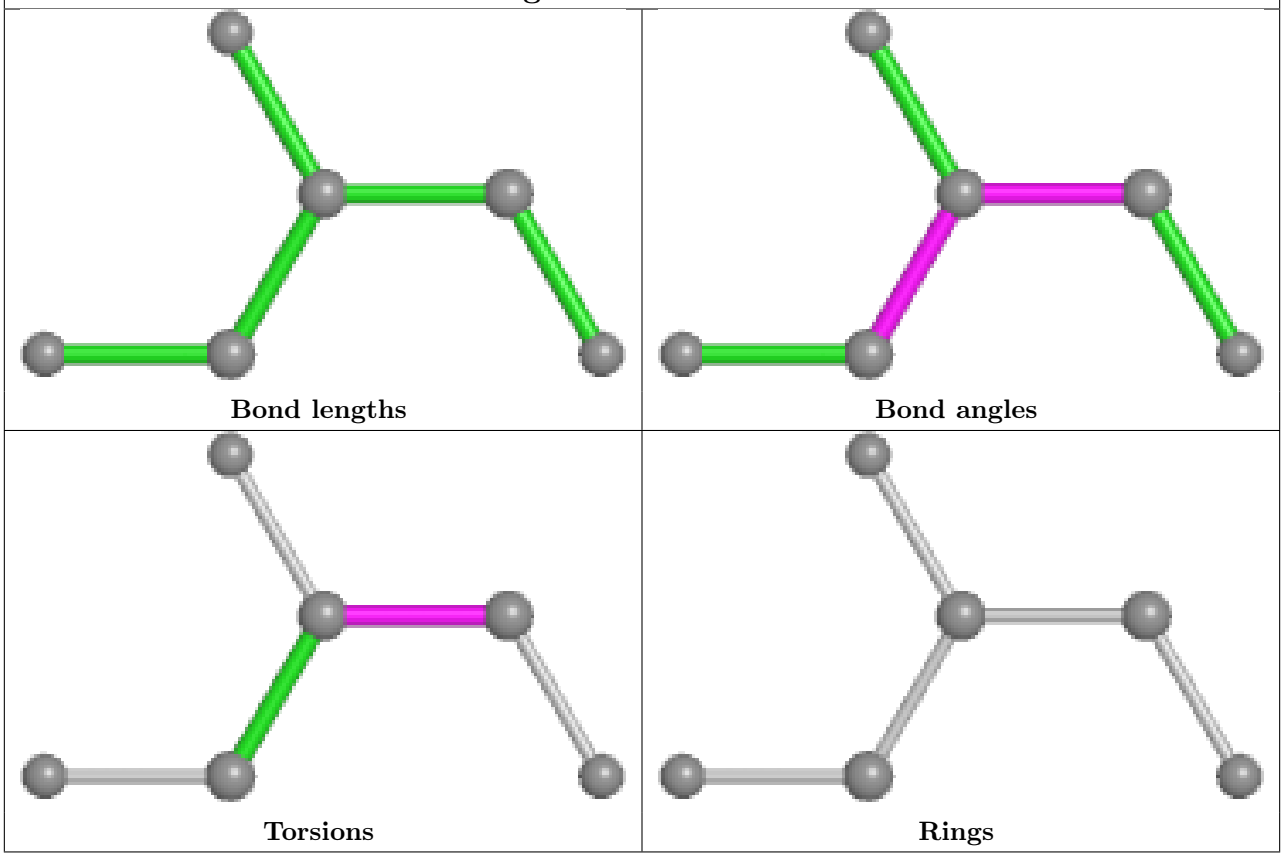
Ligand PG4 A 324



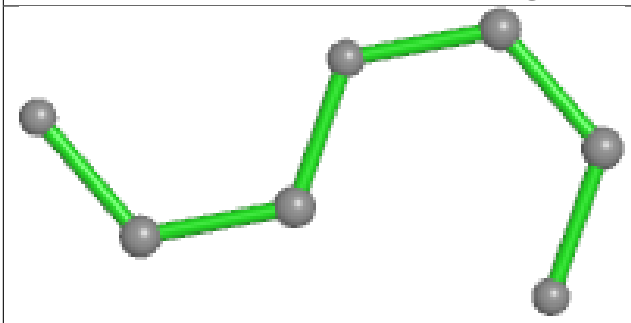
Ligand PEG A 353



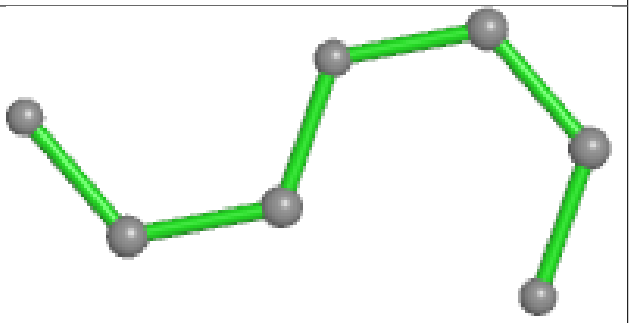
Ligand GOL D 108



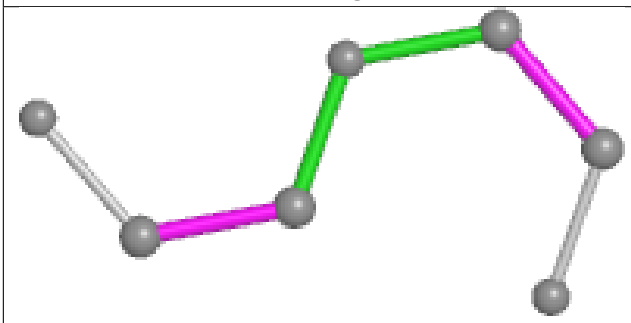
Ligand PEG C 327



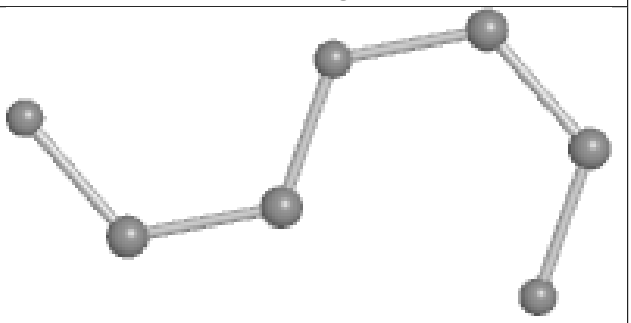
Bond lengths



Bond angles

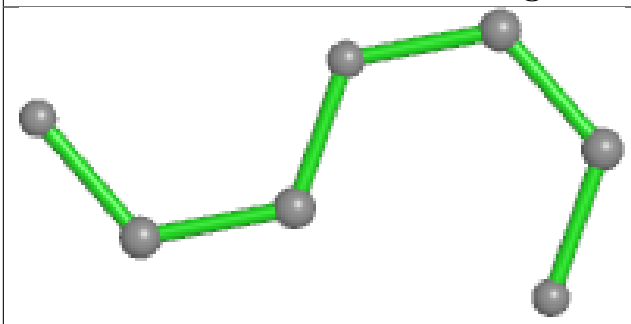


Torsions

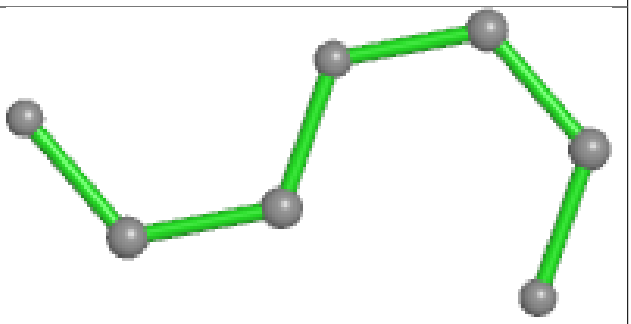


Rings

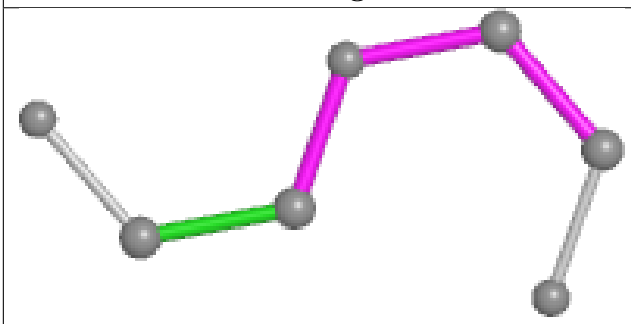
Ligand PEG C 330



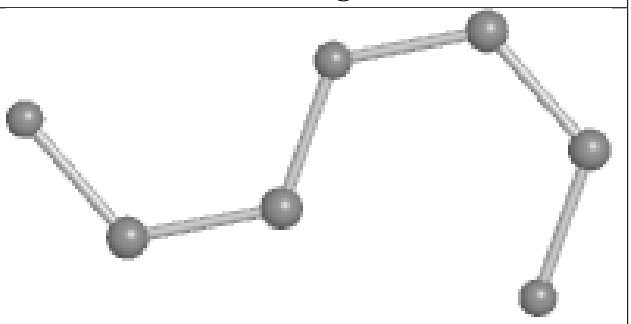
Bond lengths



Bond angles

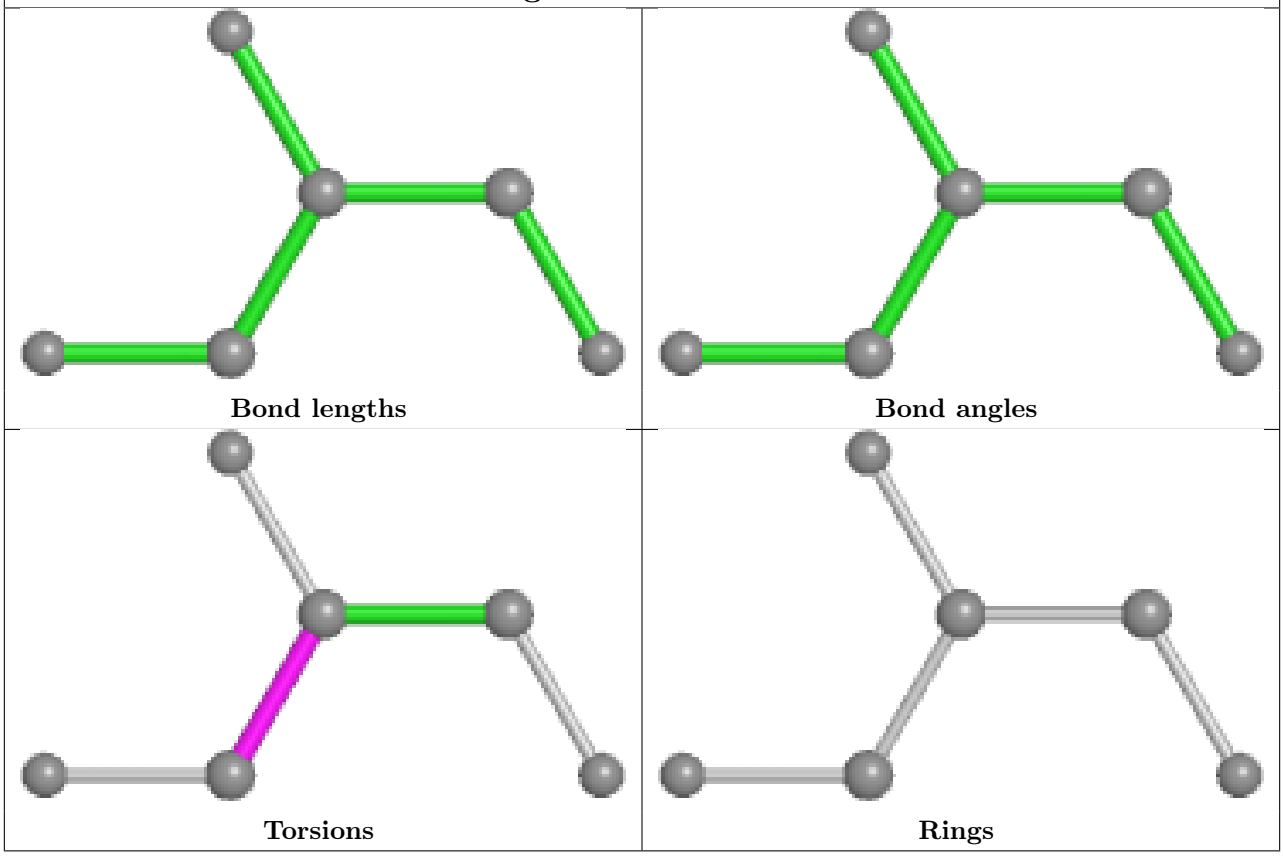


Torsions

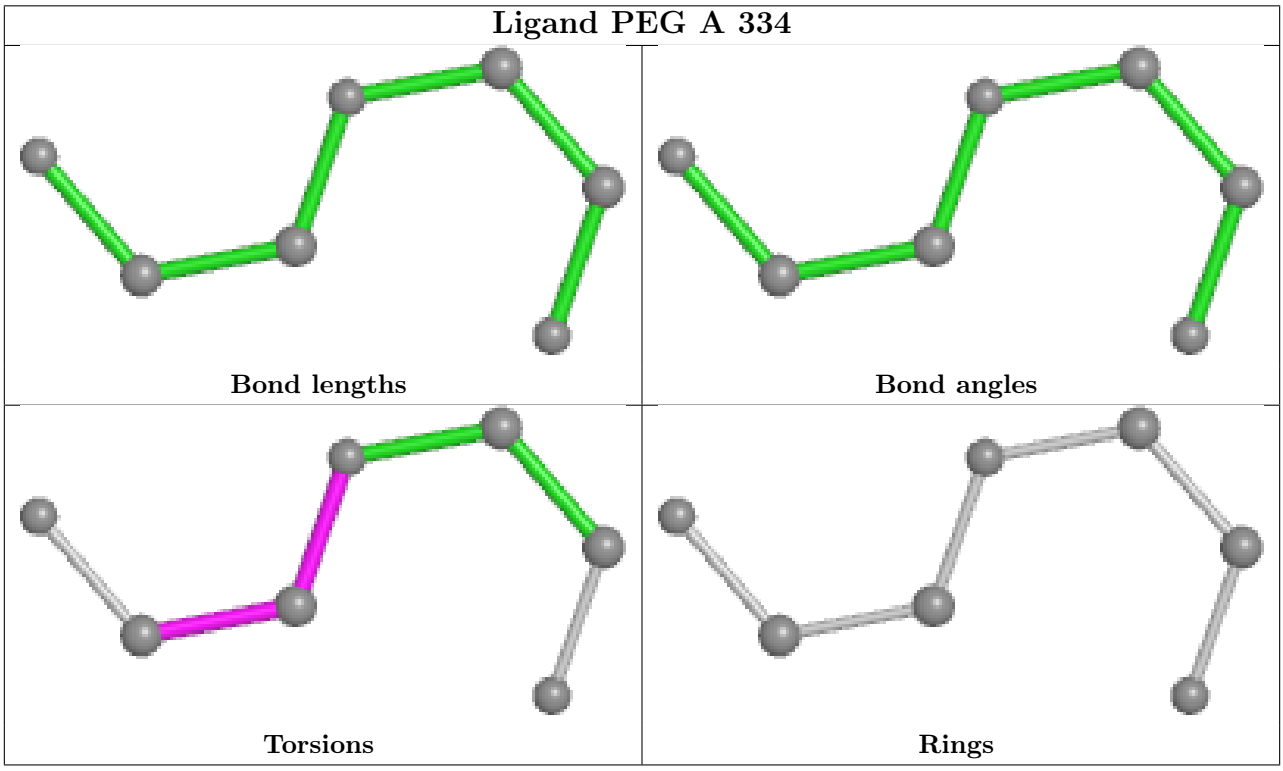


Rings

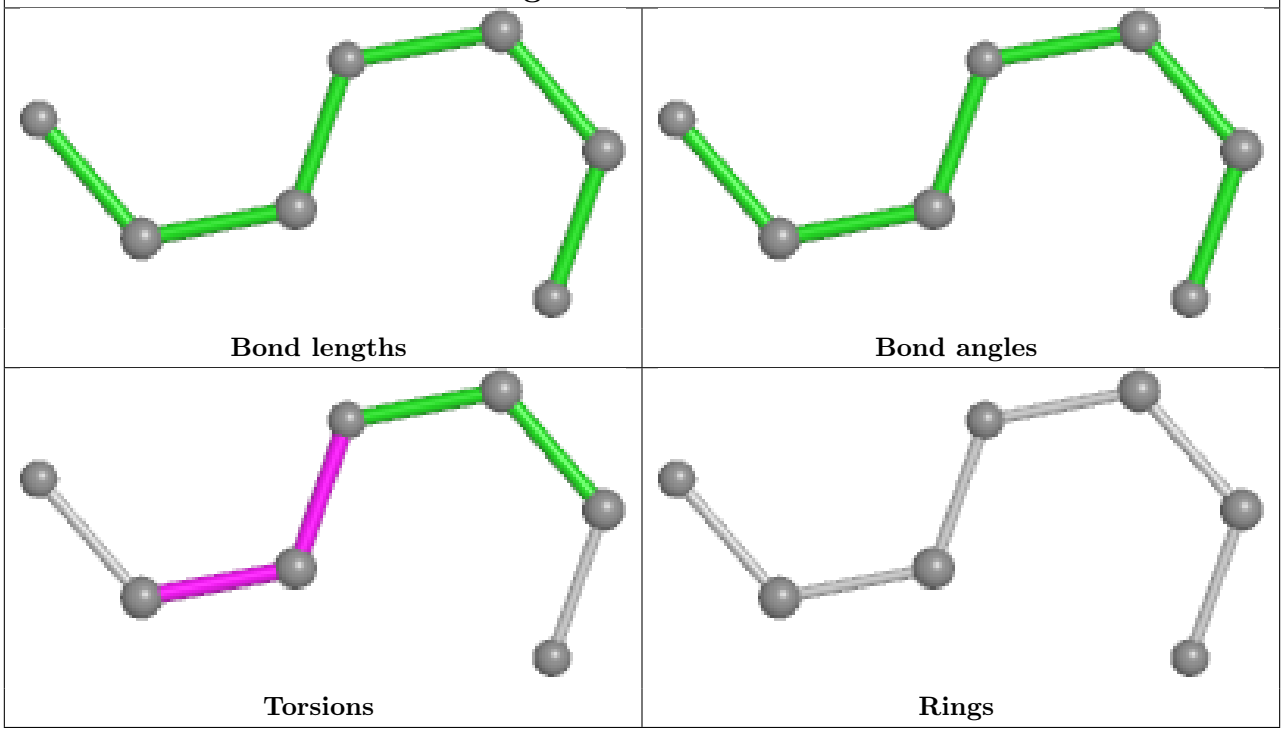
Ligand GOL A 310



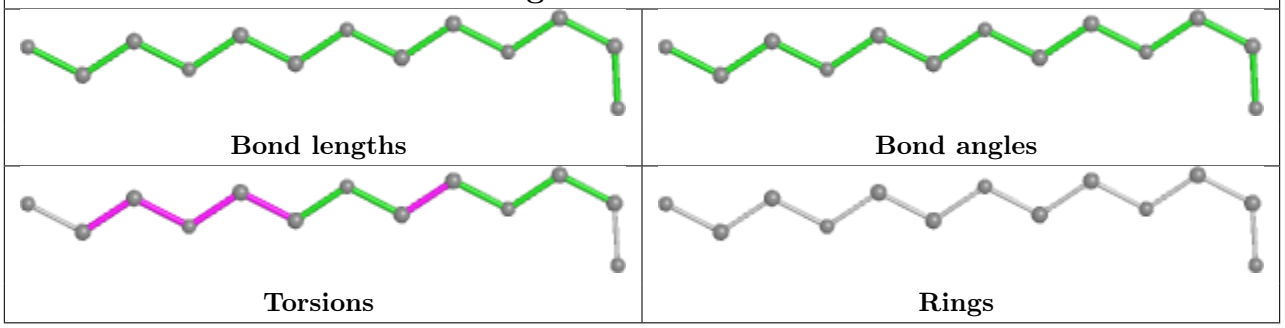
Ligand PEG A 334



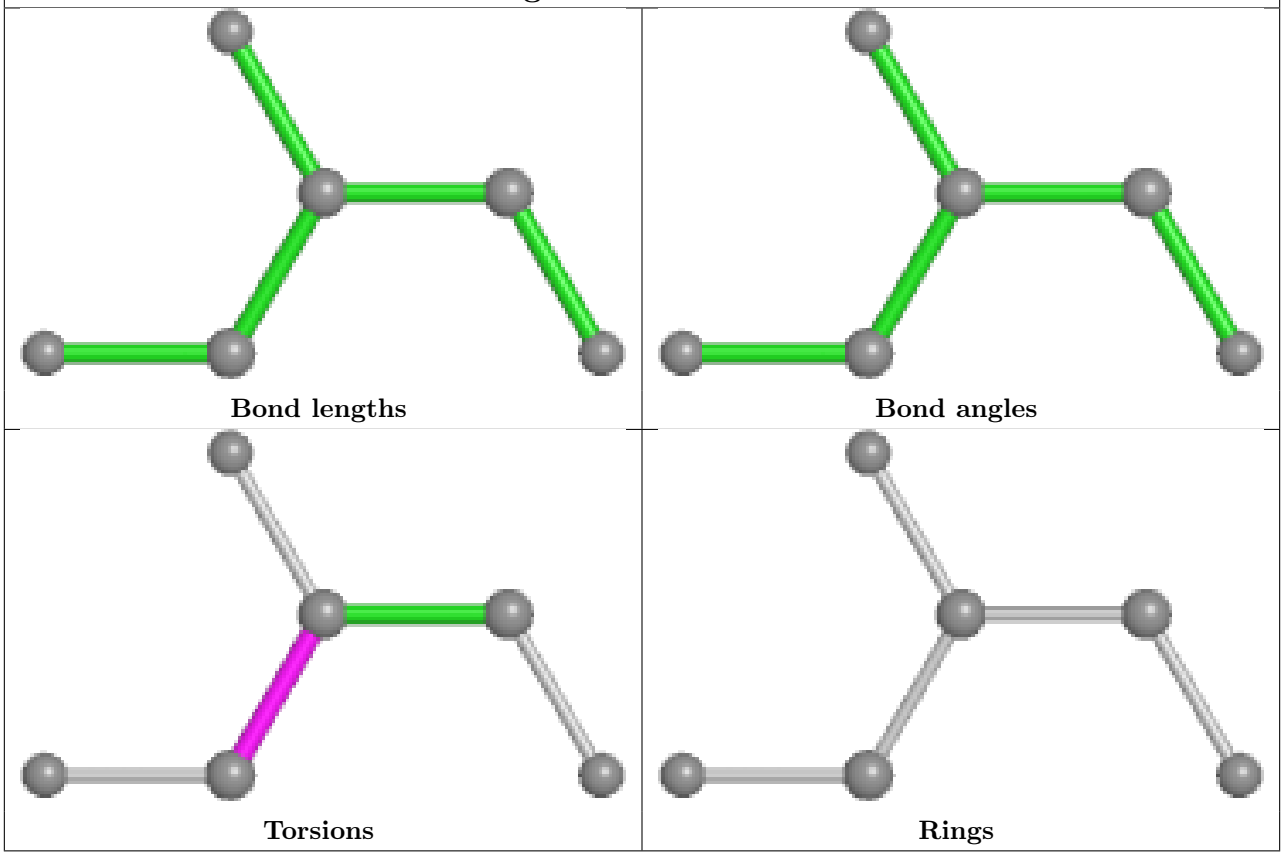
Ligand PEG A 370



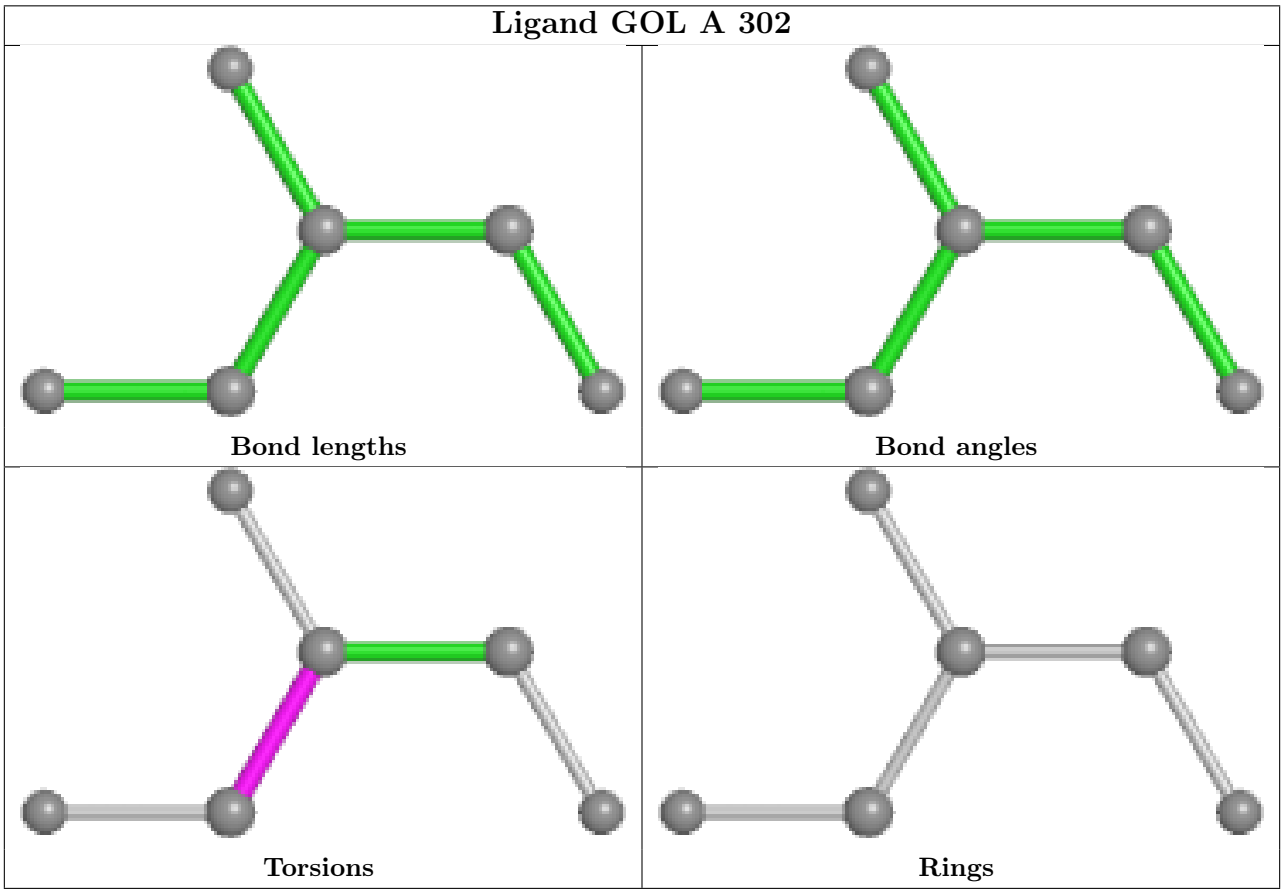
Ligand PG4 A 320



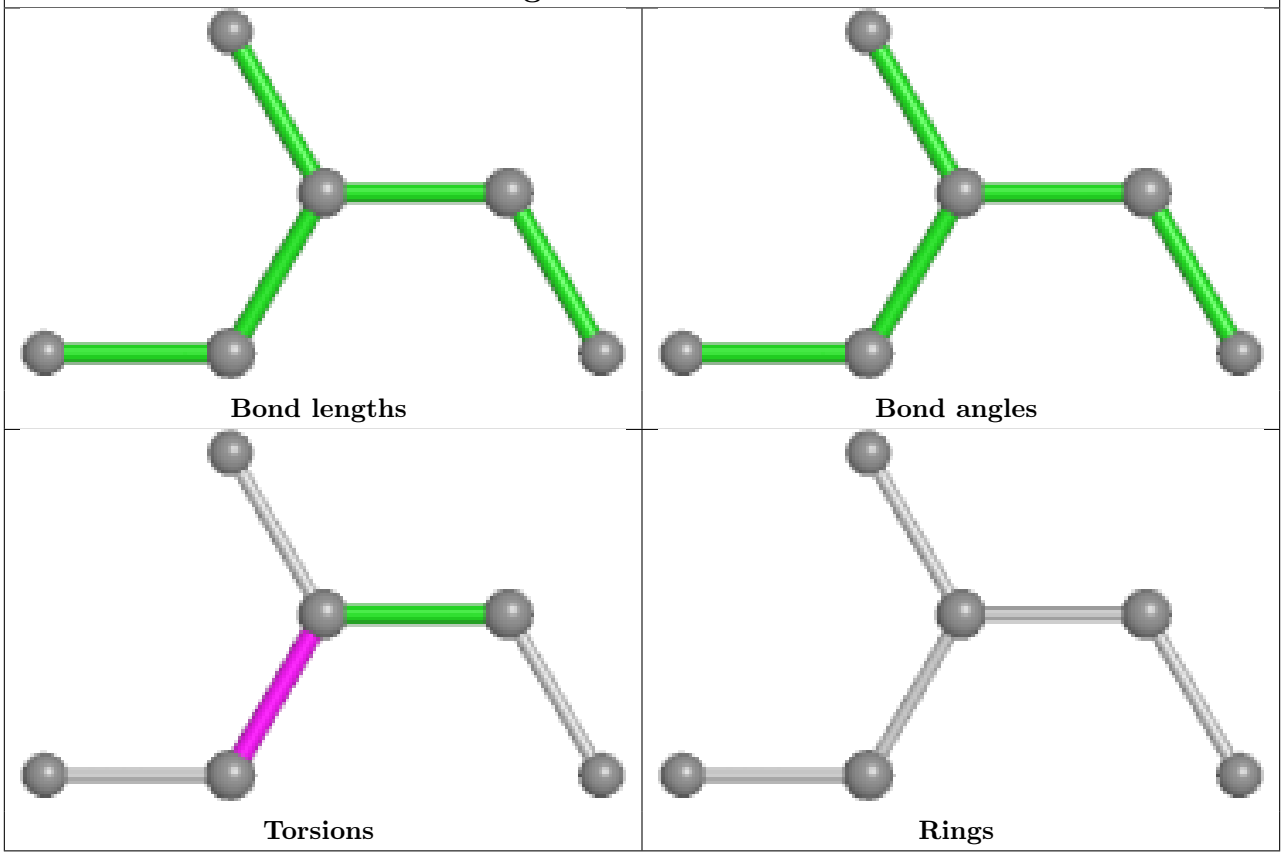
Ligand GOL A 306



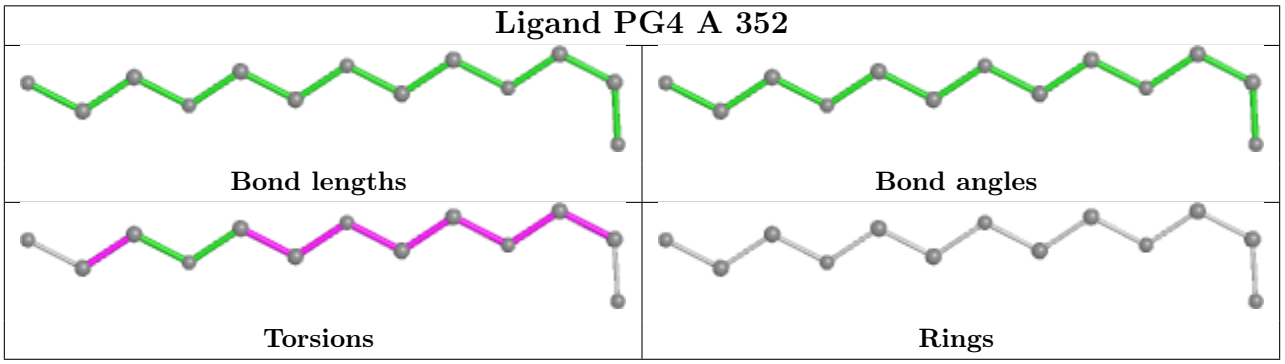
Ligand GOL A 302



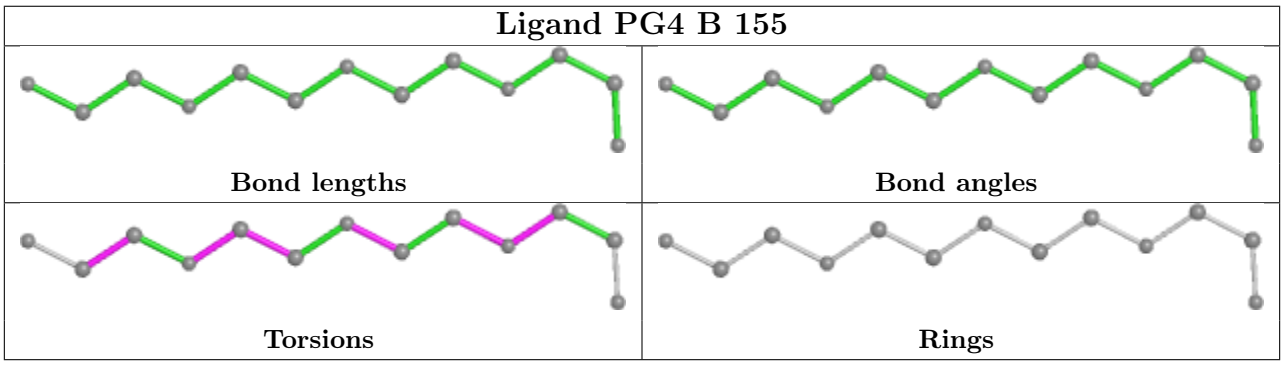
Ligand GOL A 363



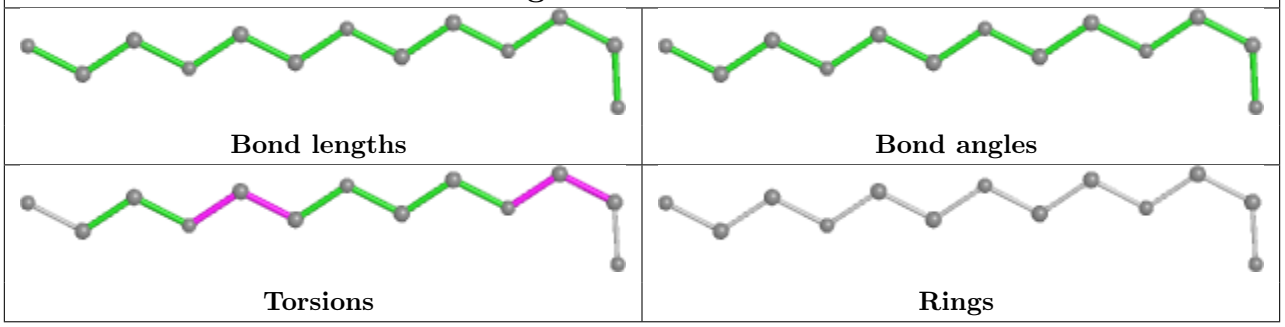
Ligand PG4 A 352



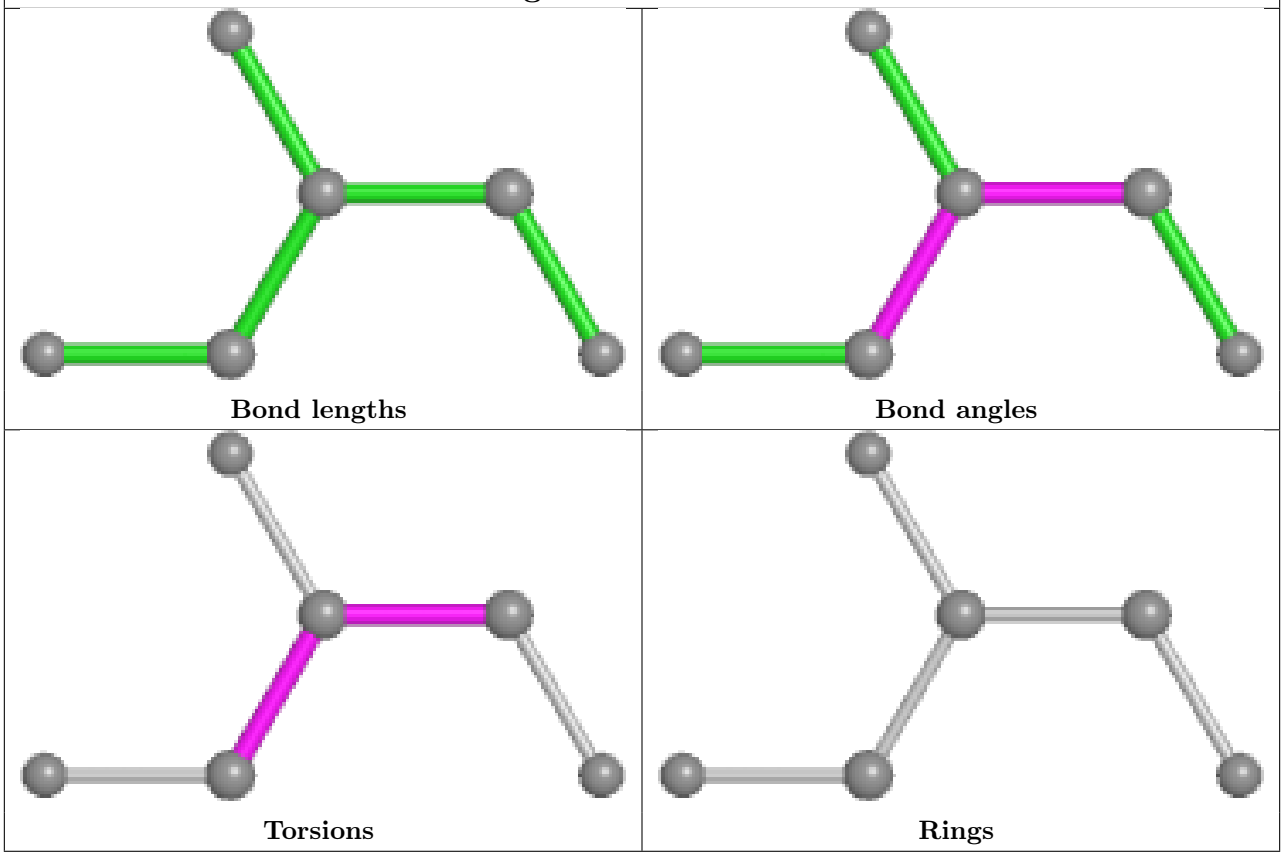
Ligand PG4 B 155



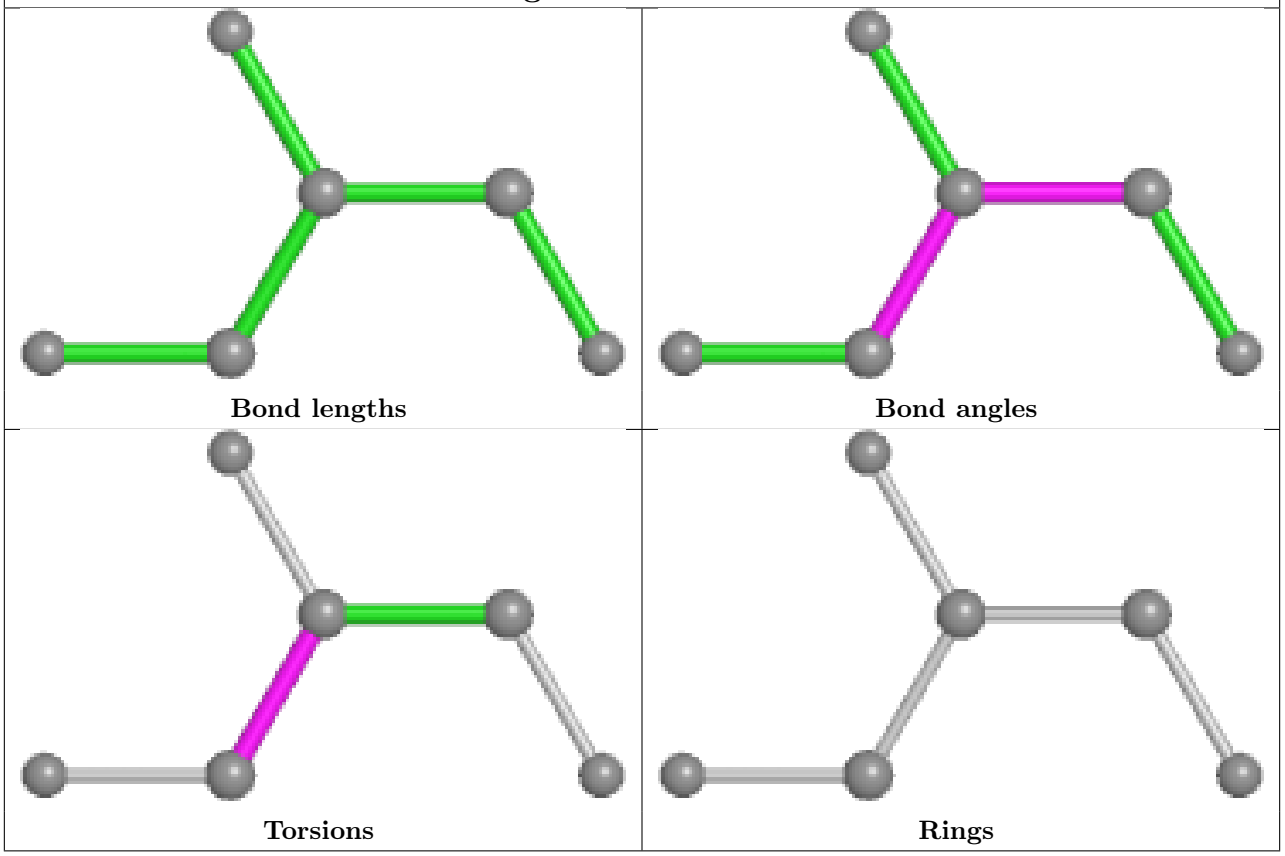
Ligand PG4 B 124



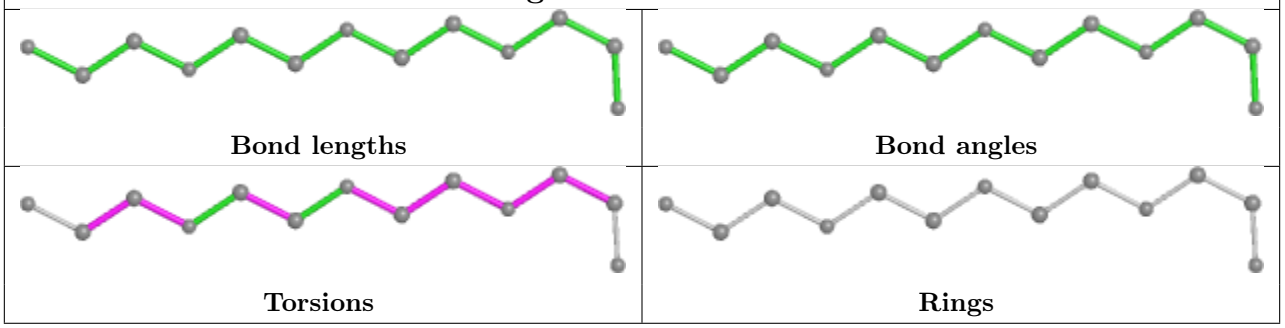
Ligand GOL A 301



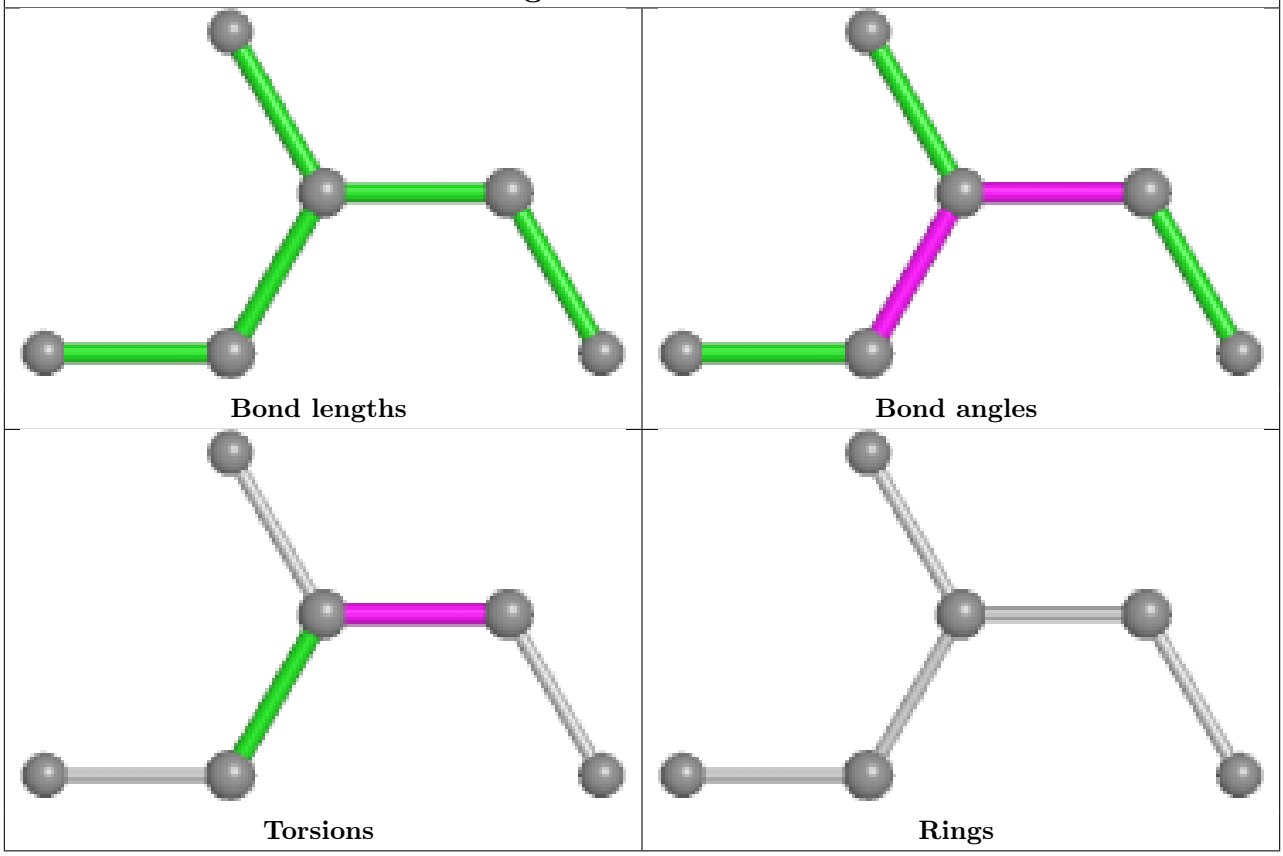
Ligand GOL A 314



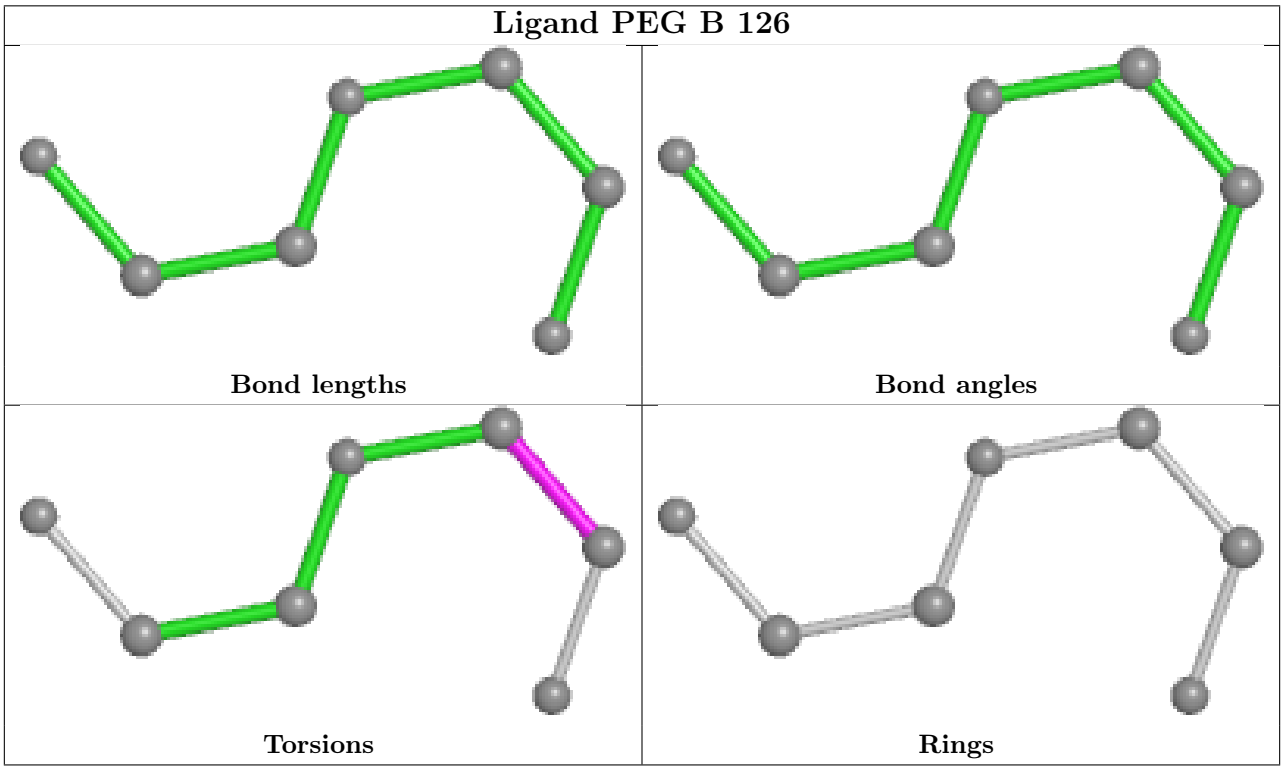
Ligand PG4 A 326



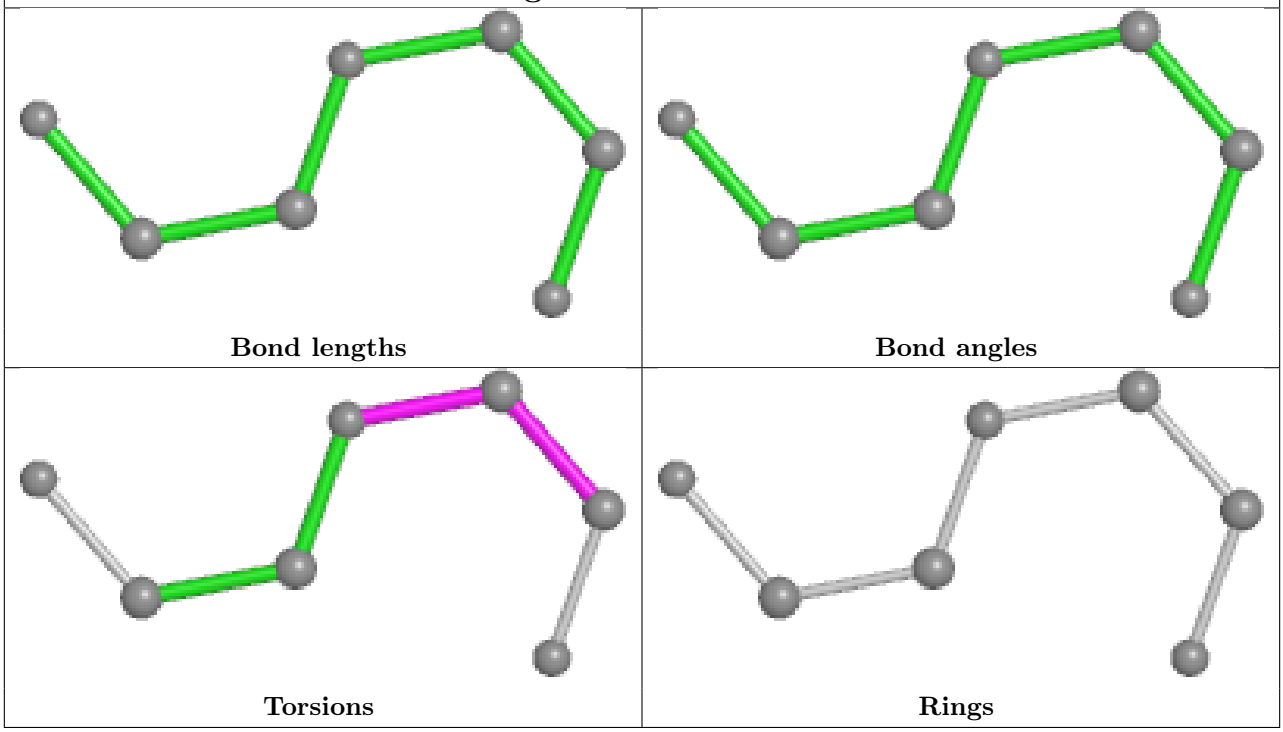
Ligand GOL B 109



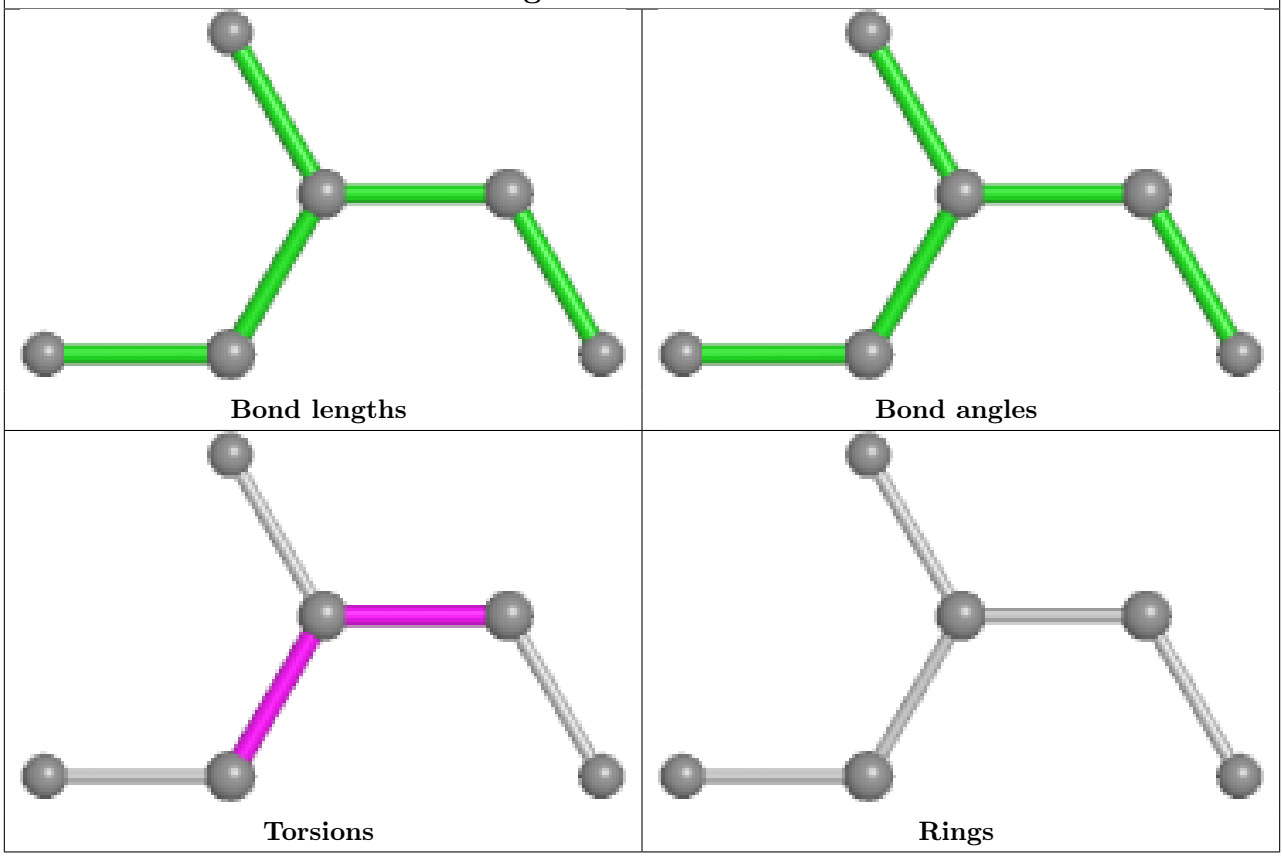
Ligand PEG B 126



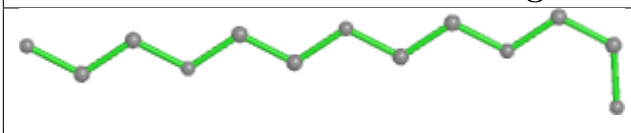
Ligand PEG C 346



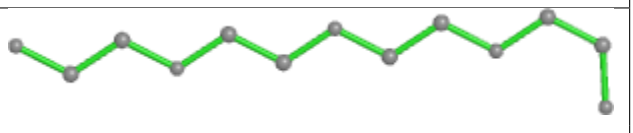
Ligand GOL A 364



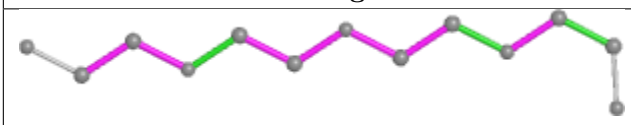
Ligand PG4 B 125



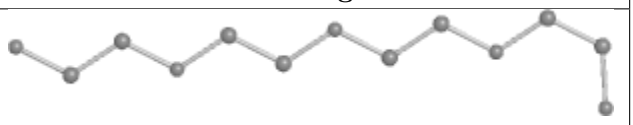
Bond lengths



Bond angles

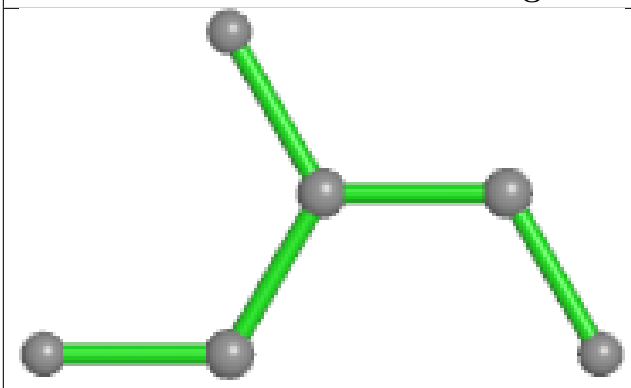


Torsions

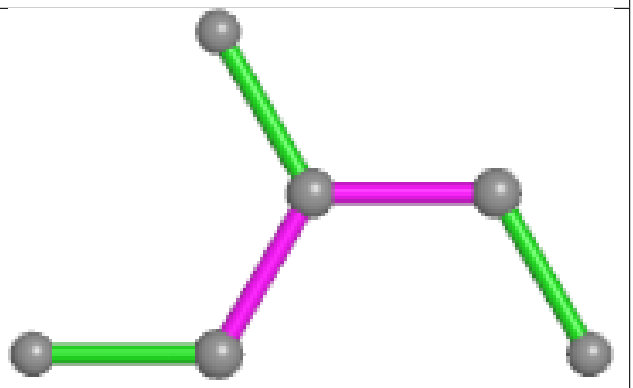


Rings

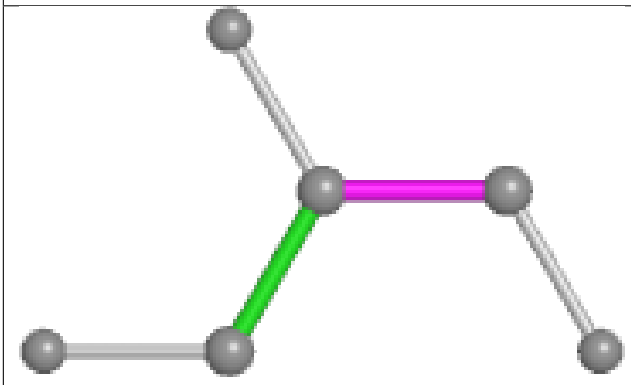
Ligand GOL B 108



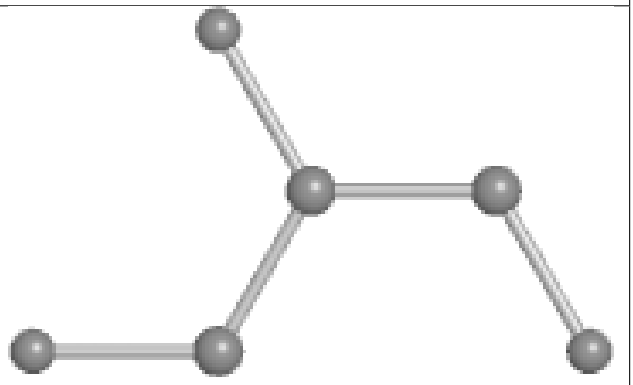
Bond lengths



Bond angles

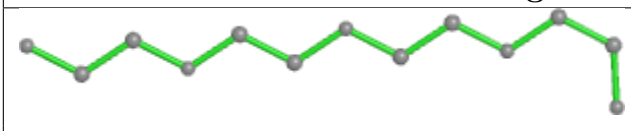


Torsions

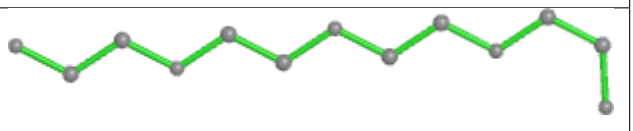


Rings

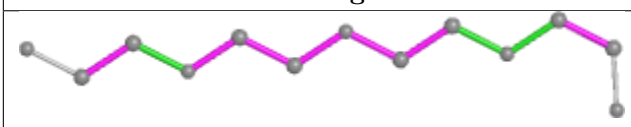
Ligand PG4 B 121



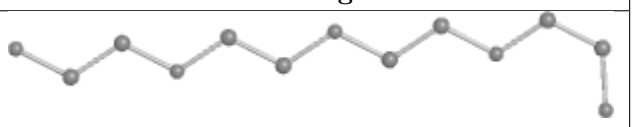
Bond lengths



Bond angles

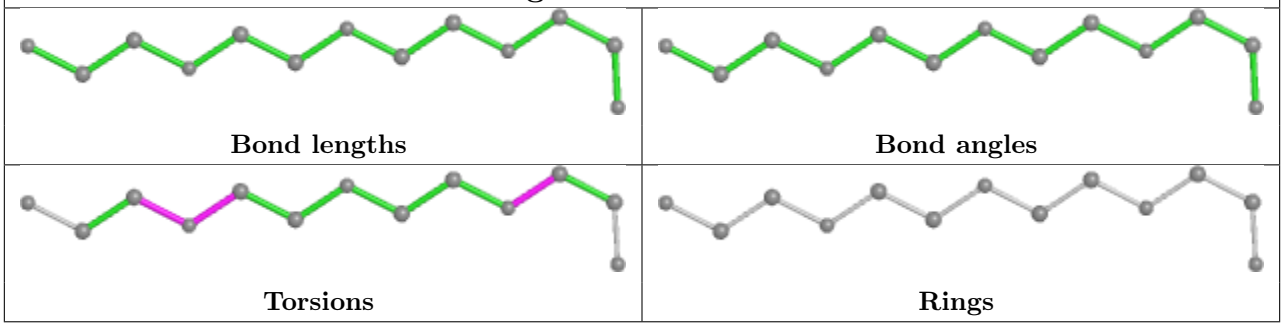


Torsions

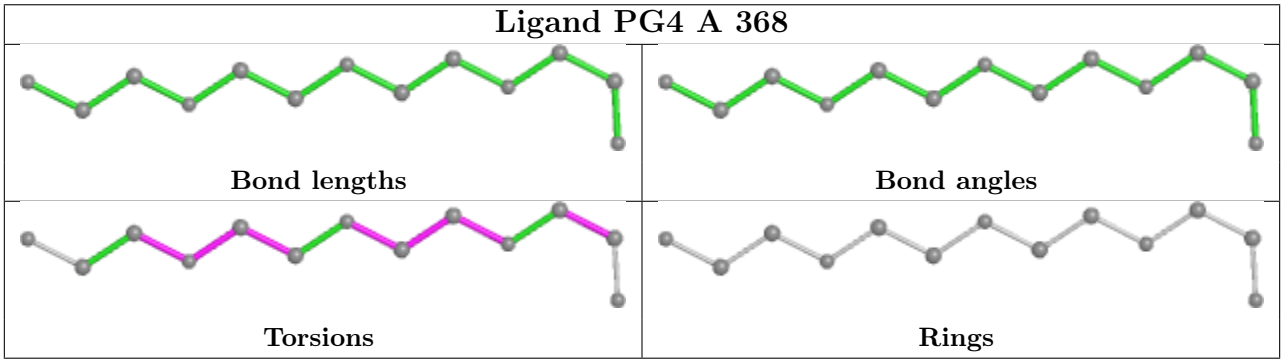


Rings

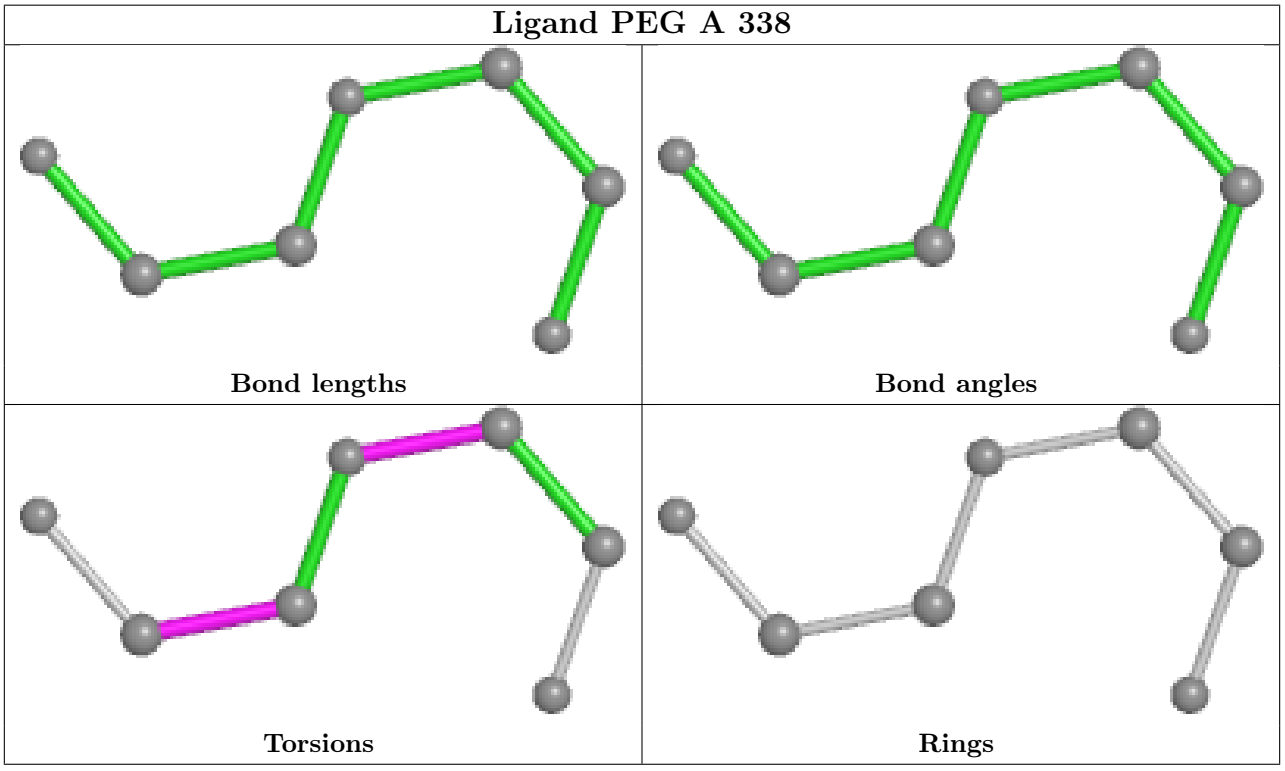
Ligand PG4 A 322



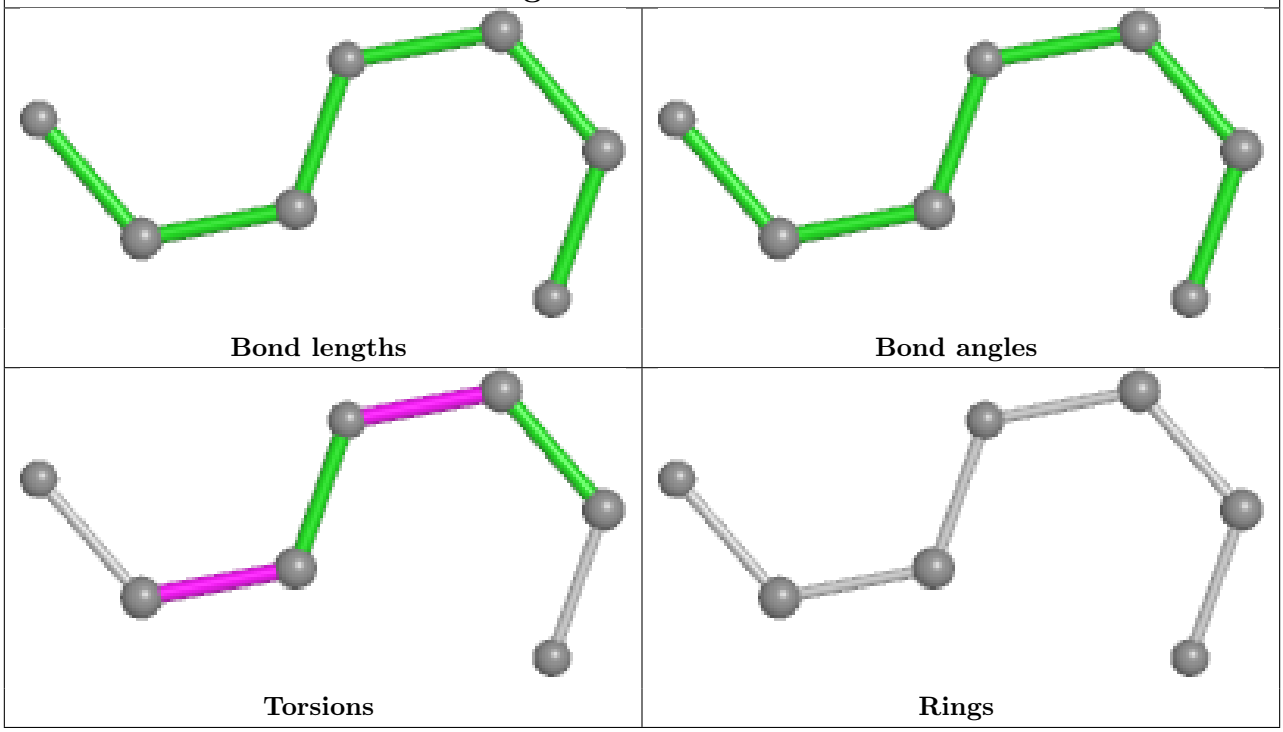
Ligand PG4 A 368



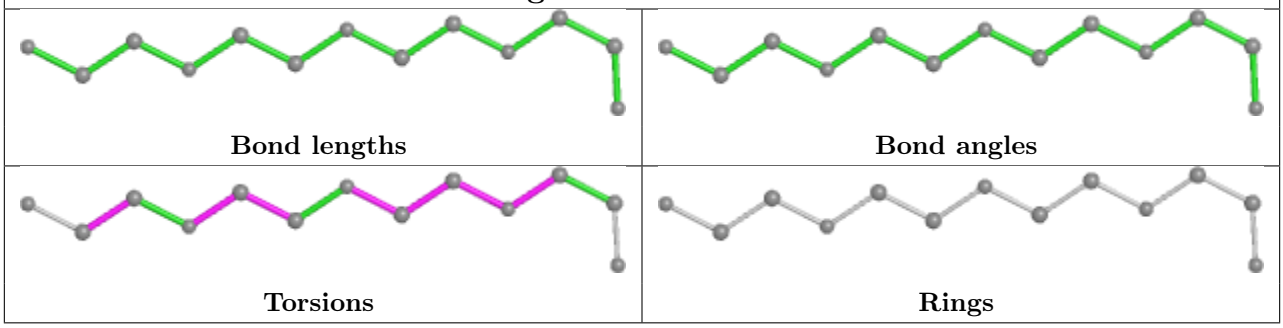
Ligand PEG A 338



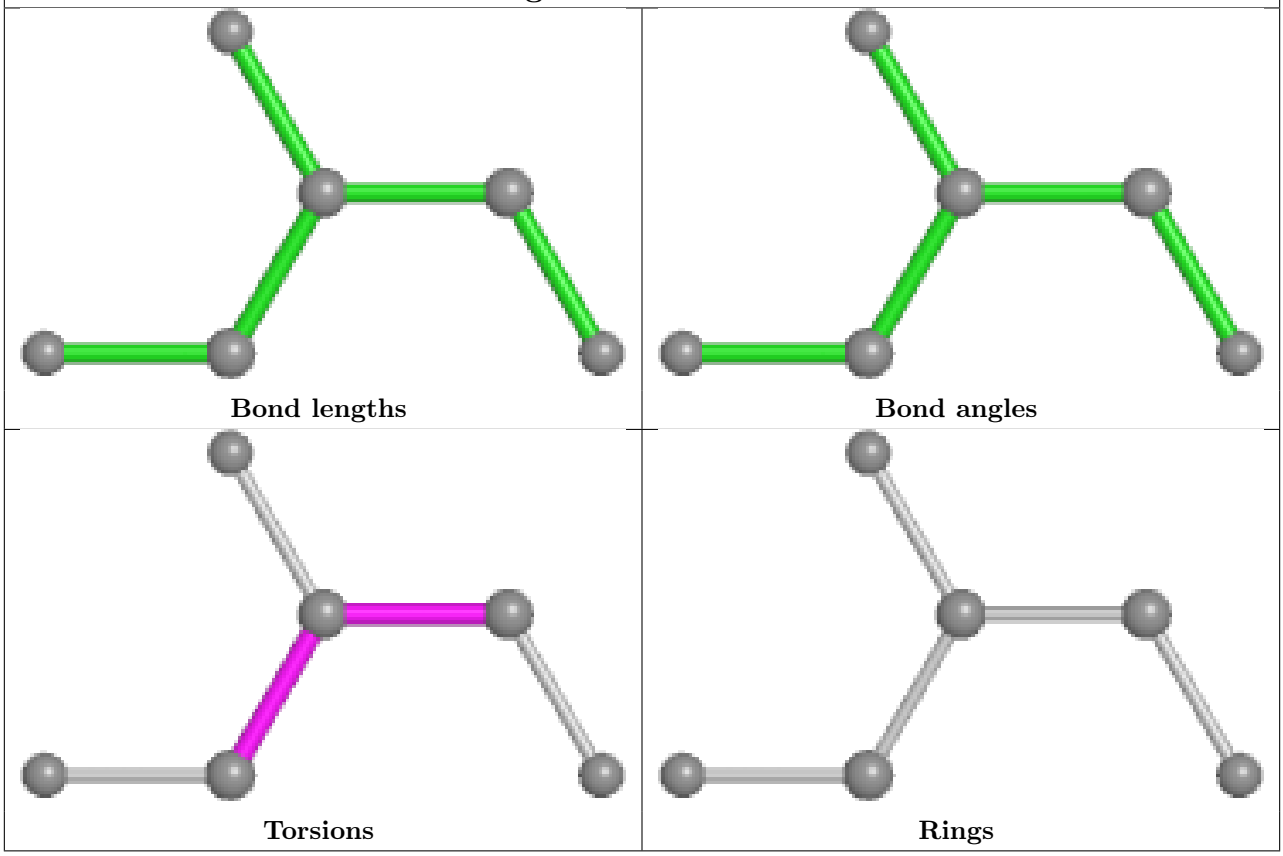
Ligand PEG D 124



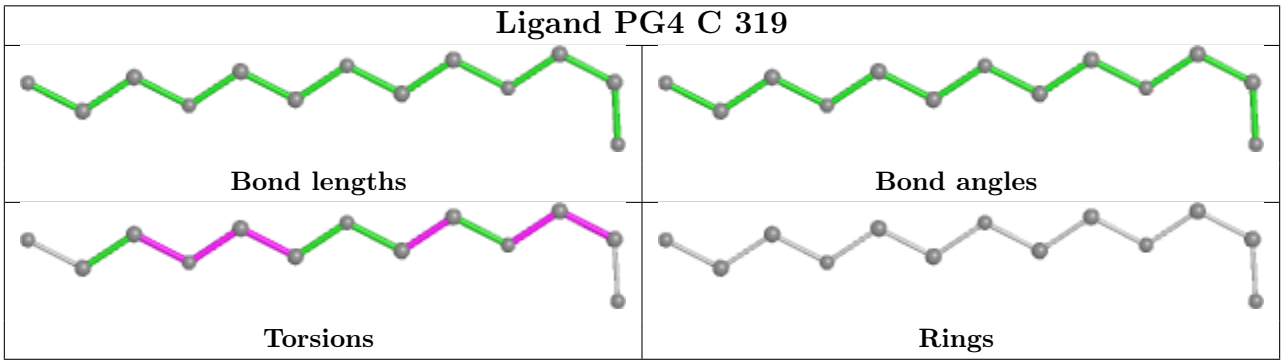
Ligand PG4 B 116



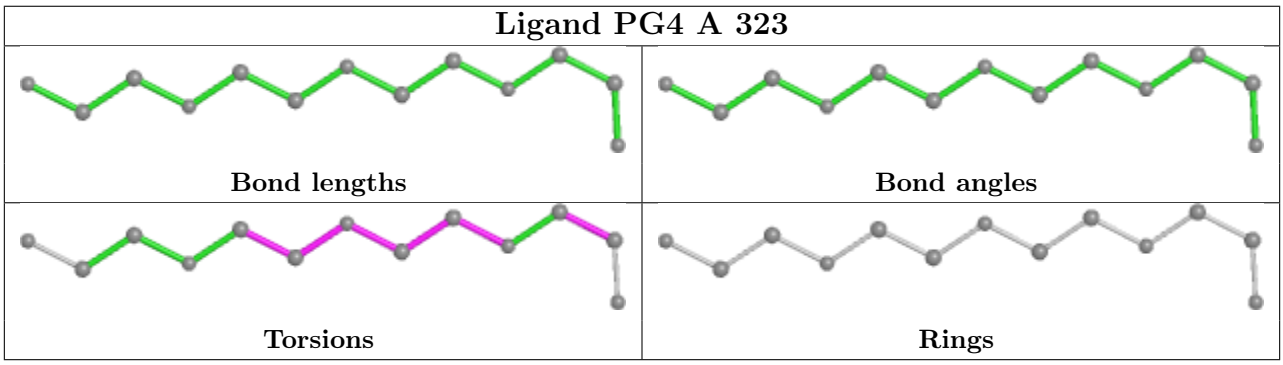
Ligand GOL E 113



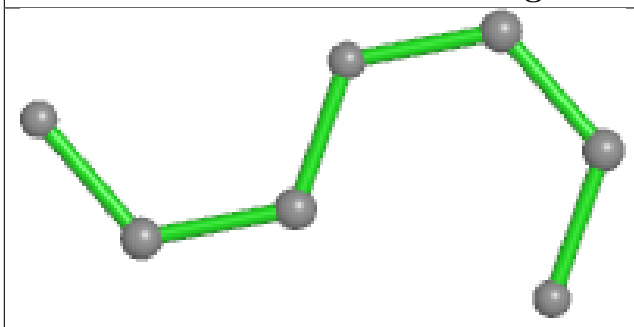
Ligand PG4 C 319



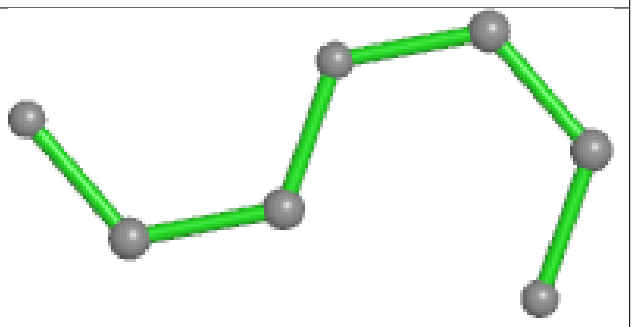
Ligand PG4 A 323



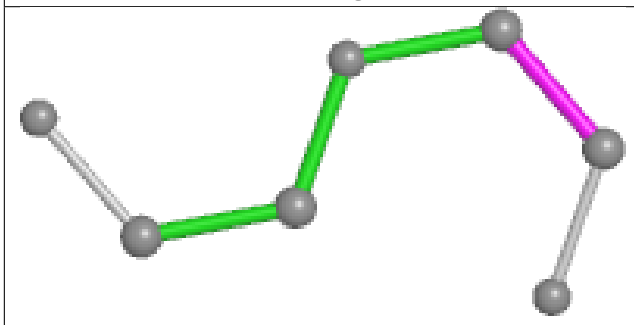
Ligand PEG B 142



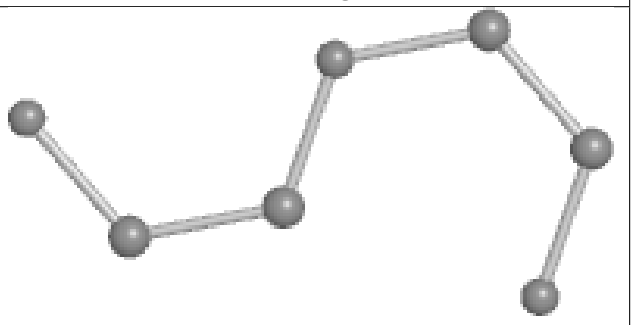
Bond lengths



Bond angles

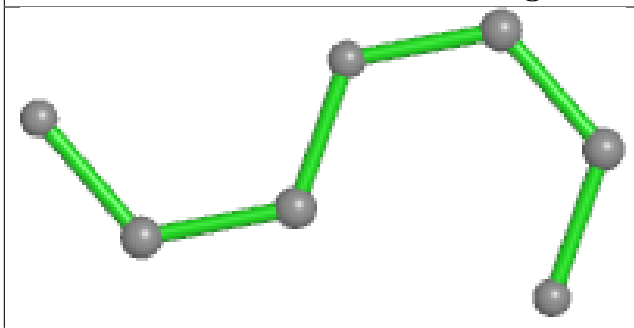


Torsions

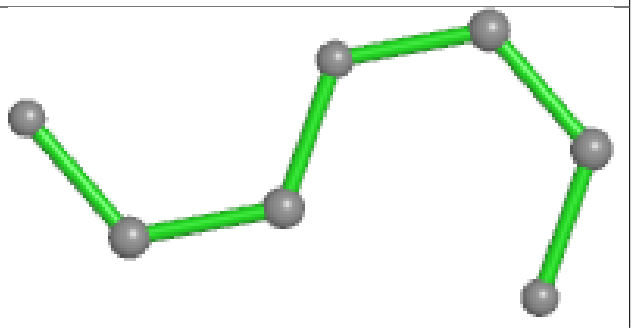


Rings

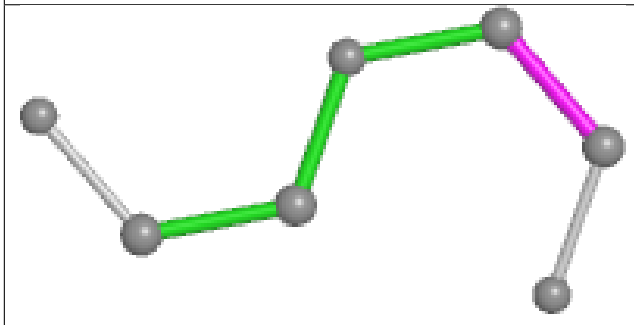
Ligand PEG D 122



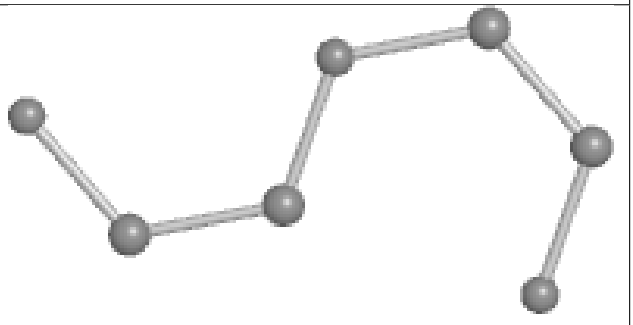
Bond lengths



Bond angles

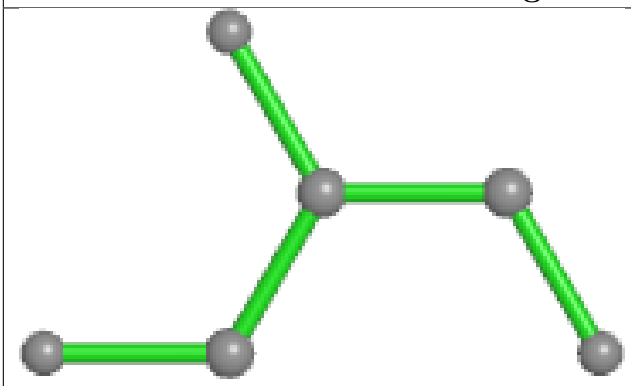


Torsions

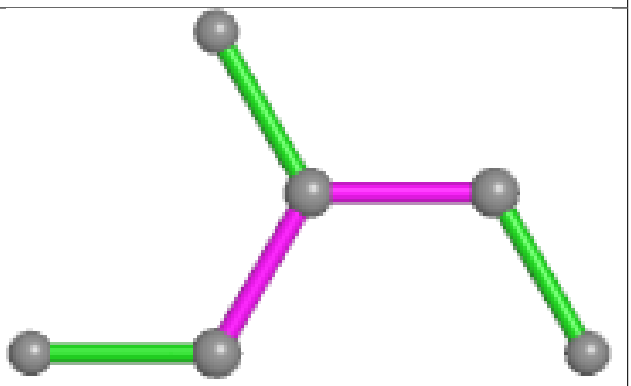


Rings

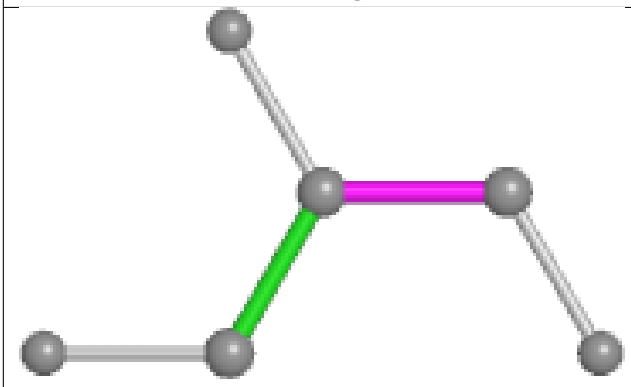
Ligand GOL C 338



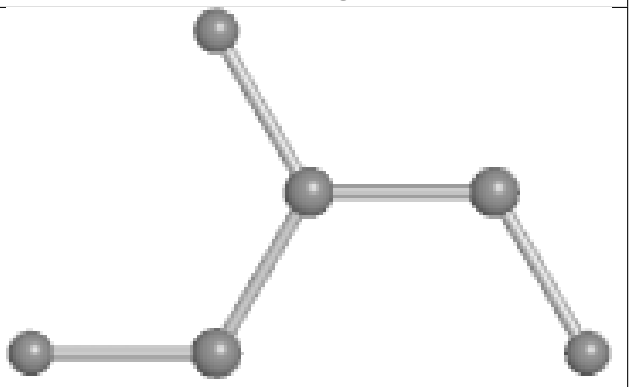
Bond lengths



Bond angles

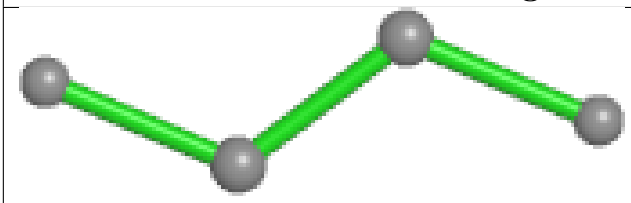


Torsions

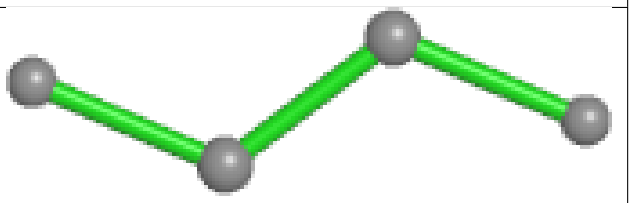


Rings

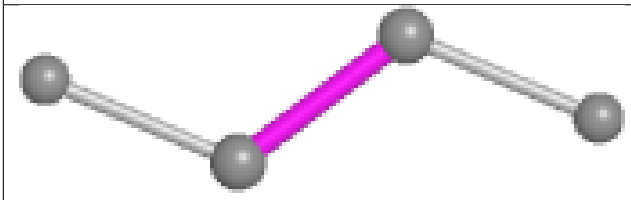
Ligand EDO D 130



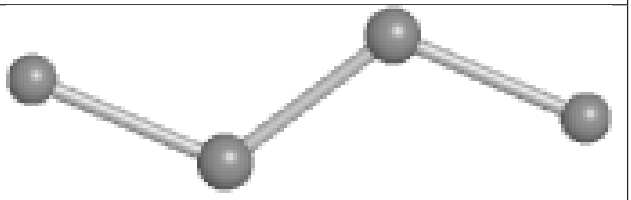
Bond lengths



Bond angles

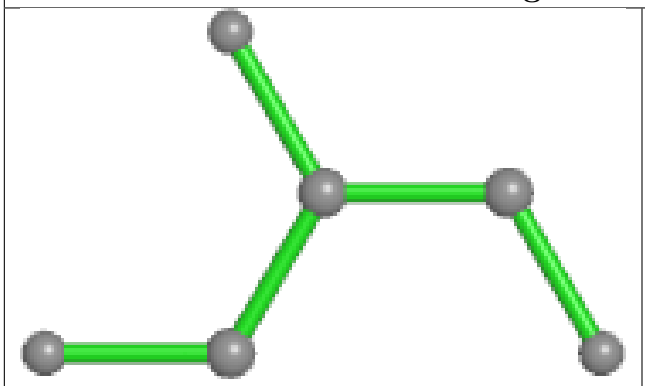


Torsions

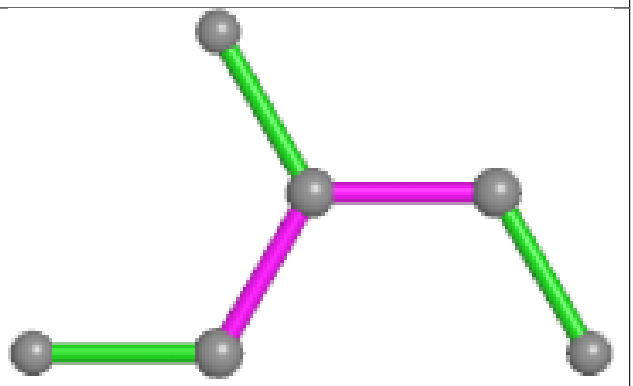


Rings

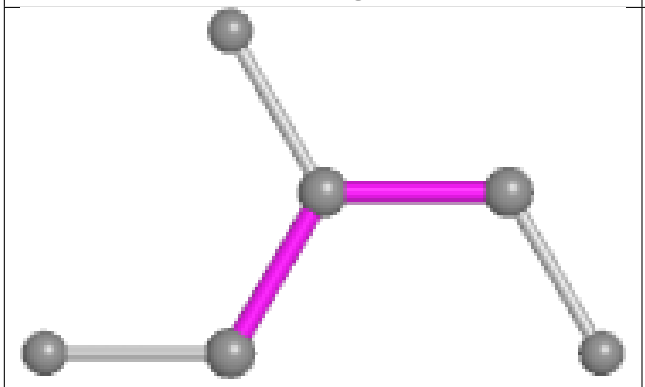
Ligand GOL D 112



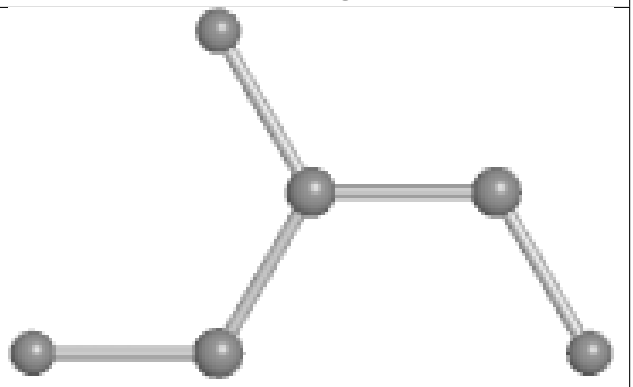
Bond lengths



Bond angles

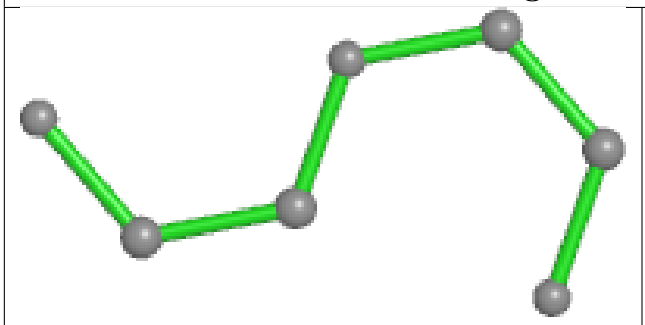


Torsions

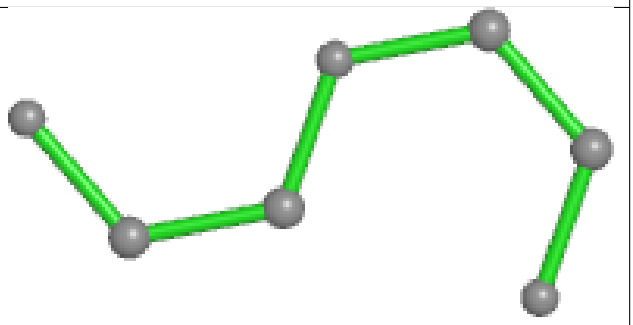


Rings

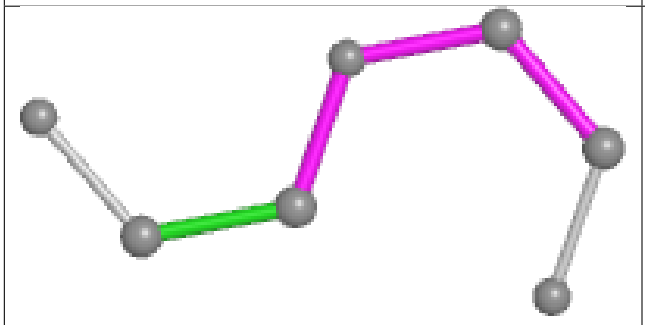
Ligand PEG A 372



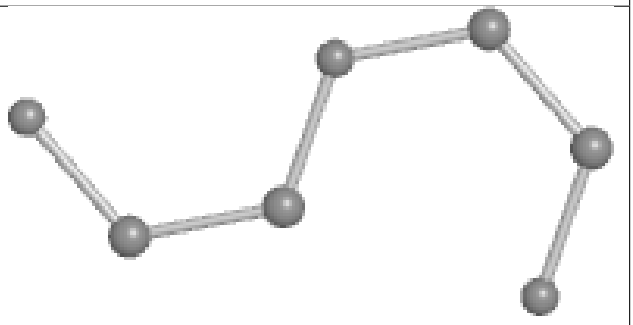
Bond lengths



Bond angles

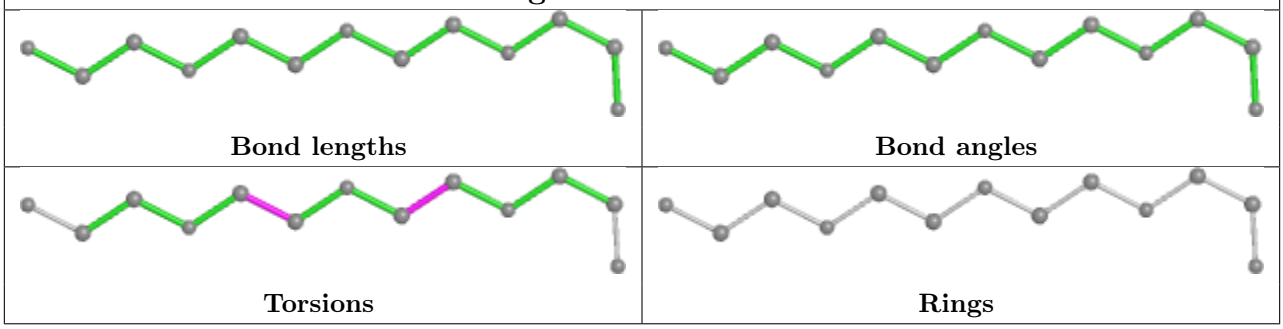


Torsions

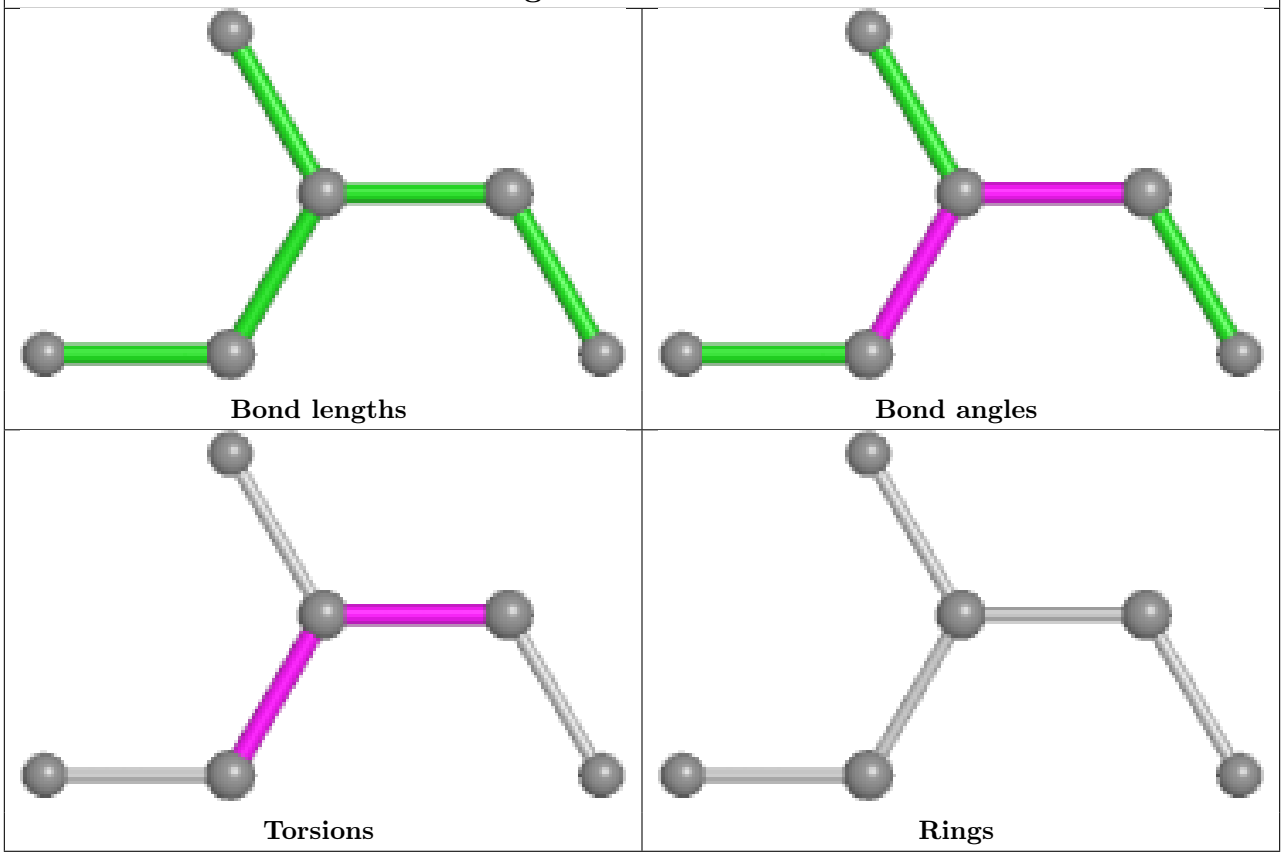


Rings

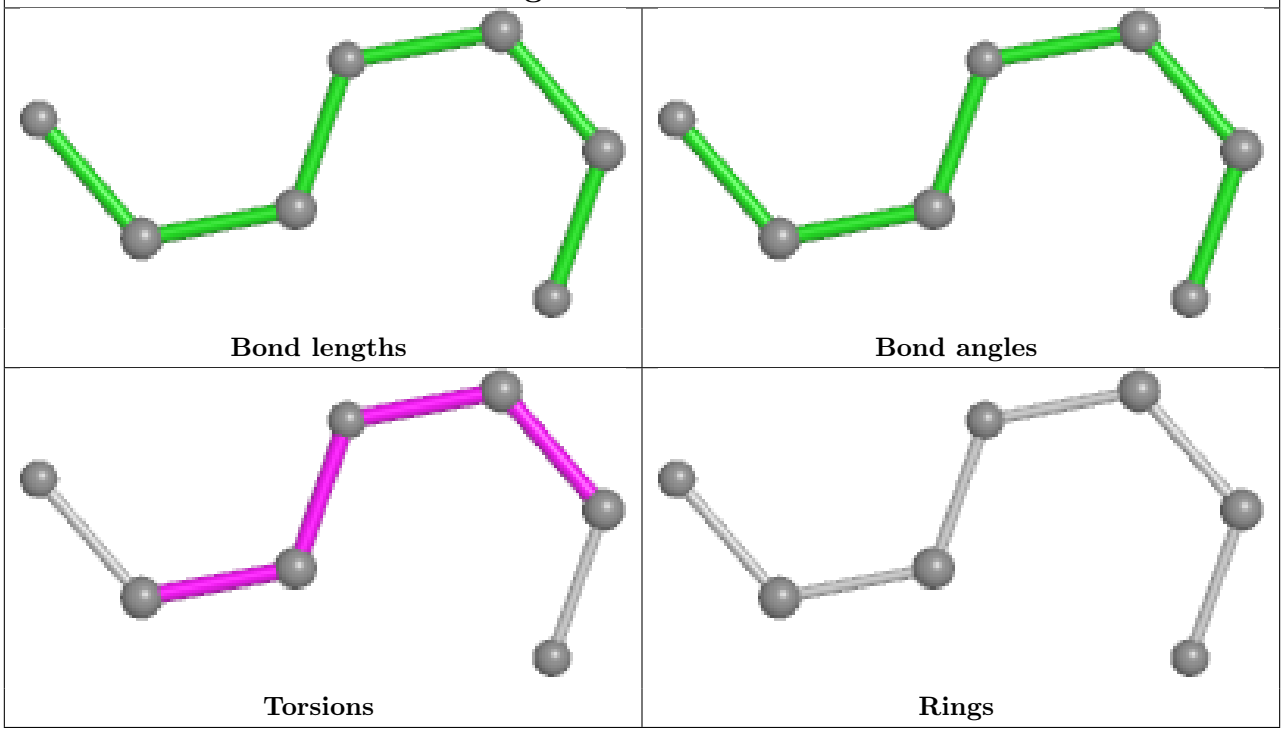
Ligand PG4 E 107



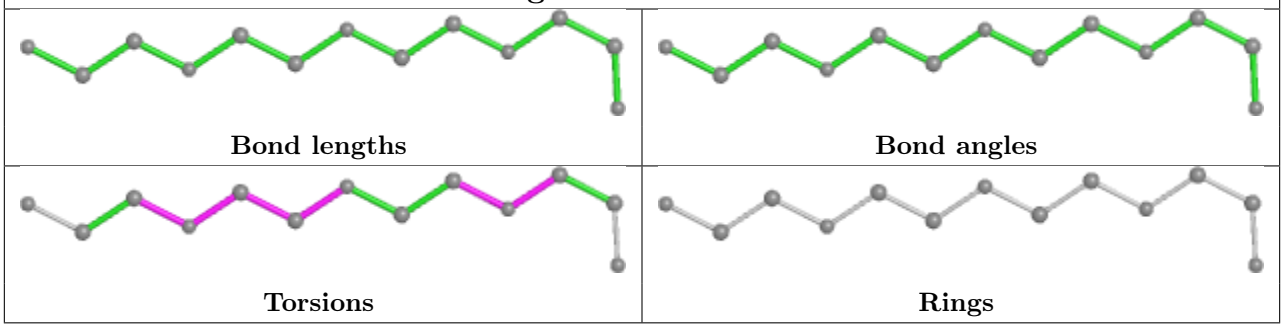
Ligand GOL B 152



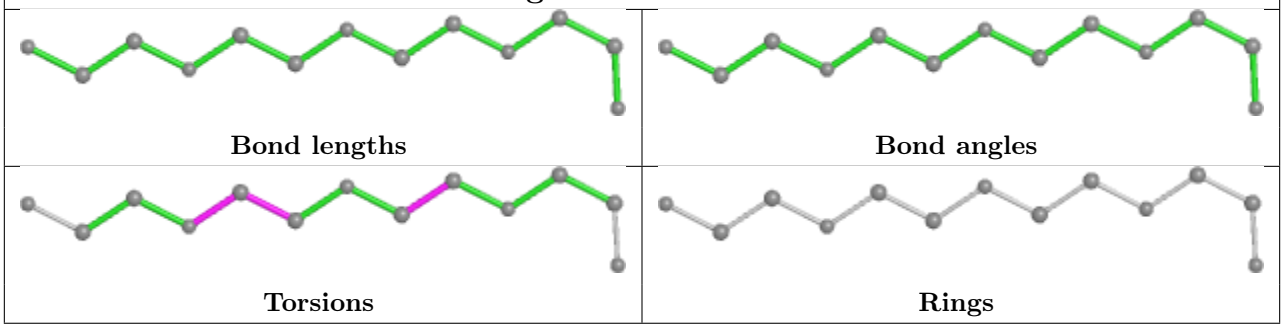
Ligand PEG B 130



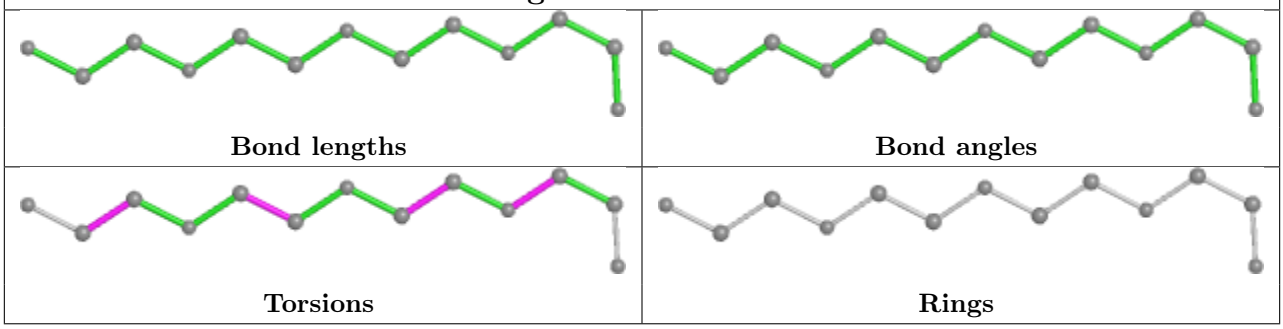
Ligand PG4 C 323



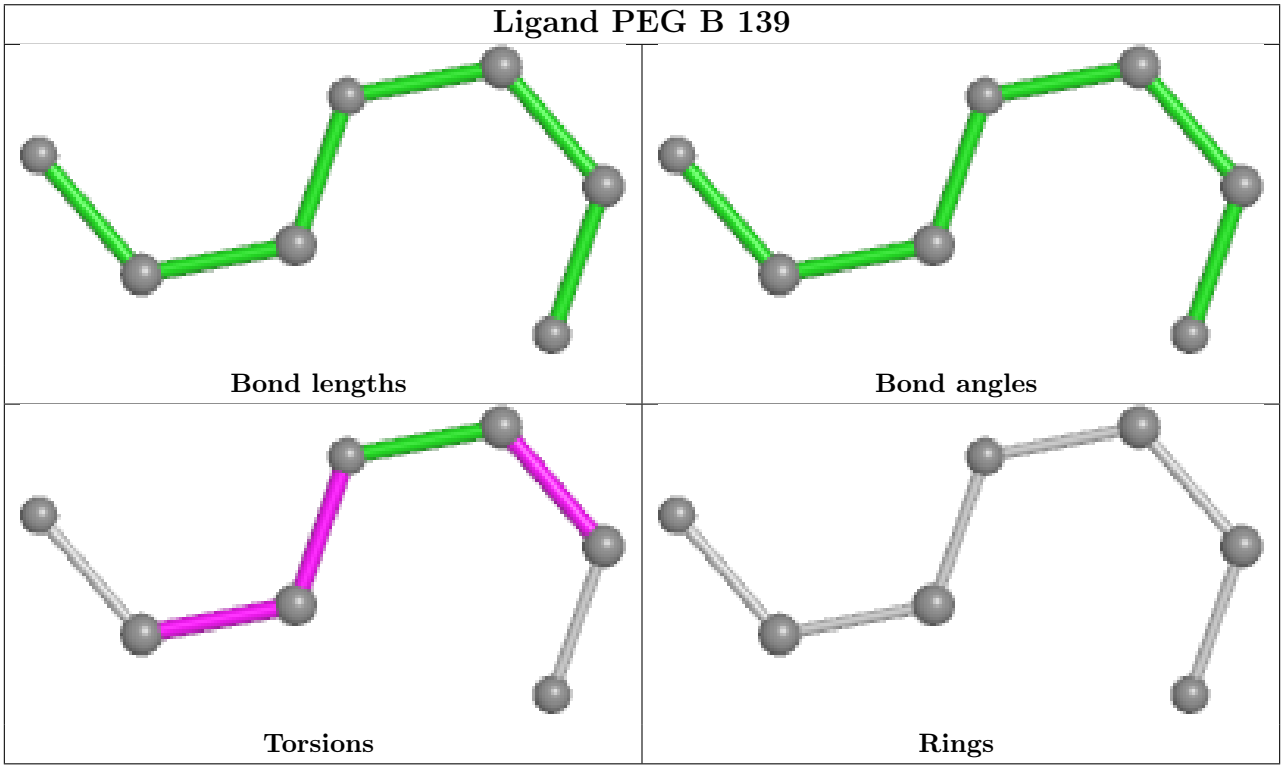
Ligand PG4 D 116



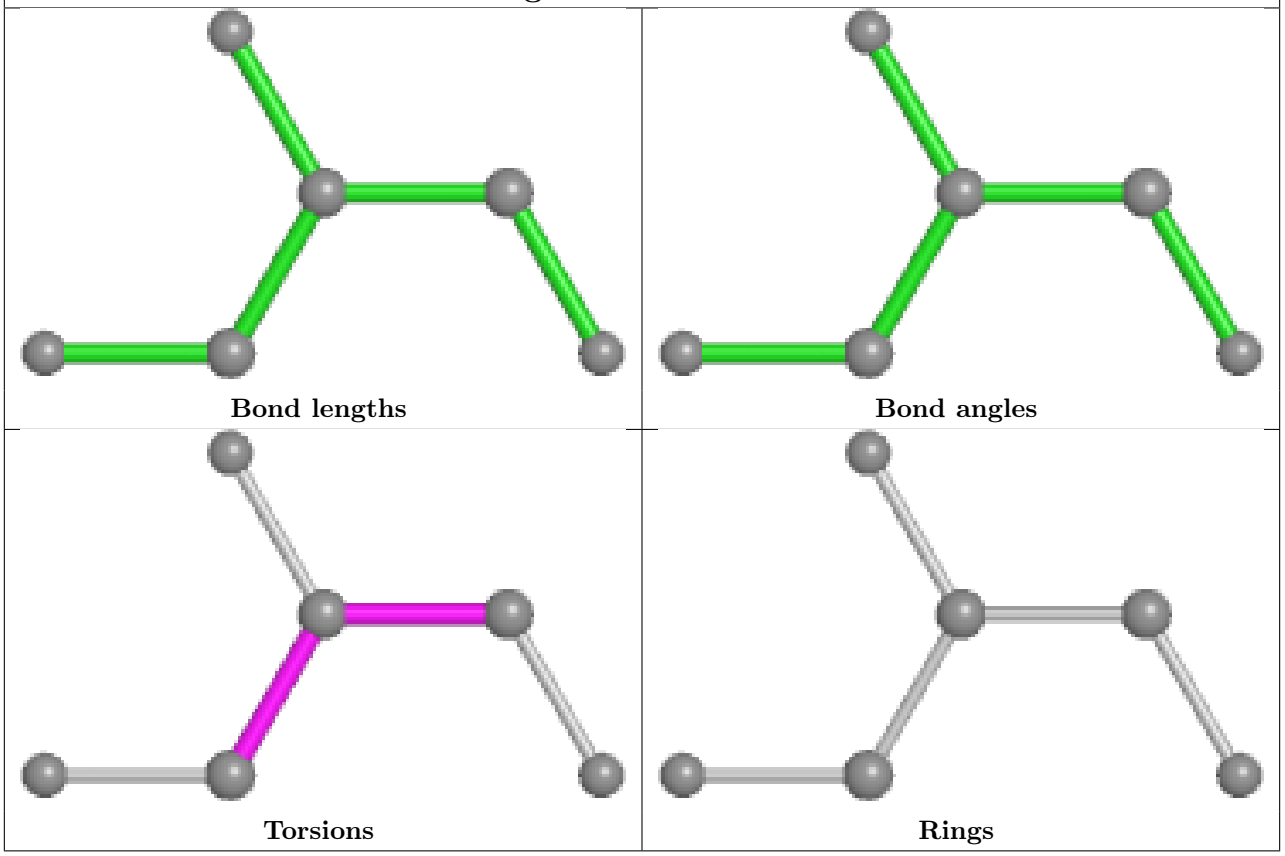
Ligand PG4 C 336



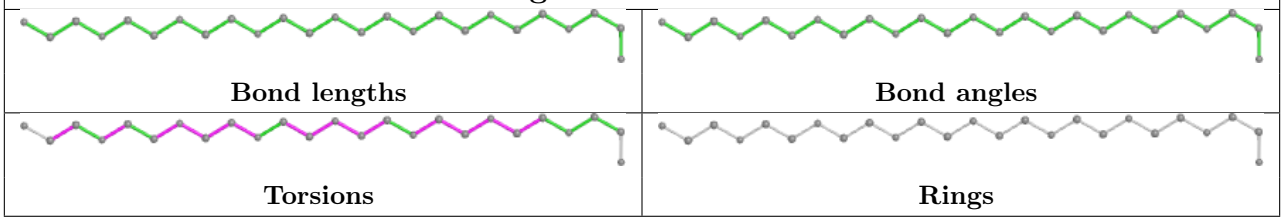
Ligand PEG B 139



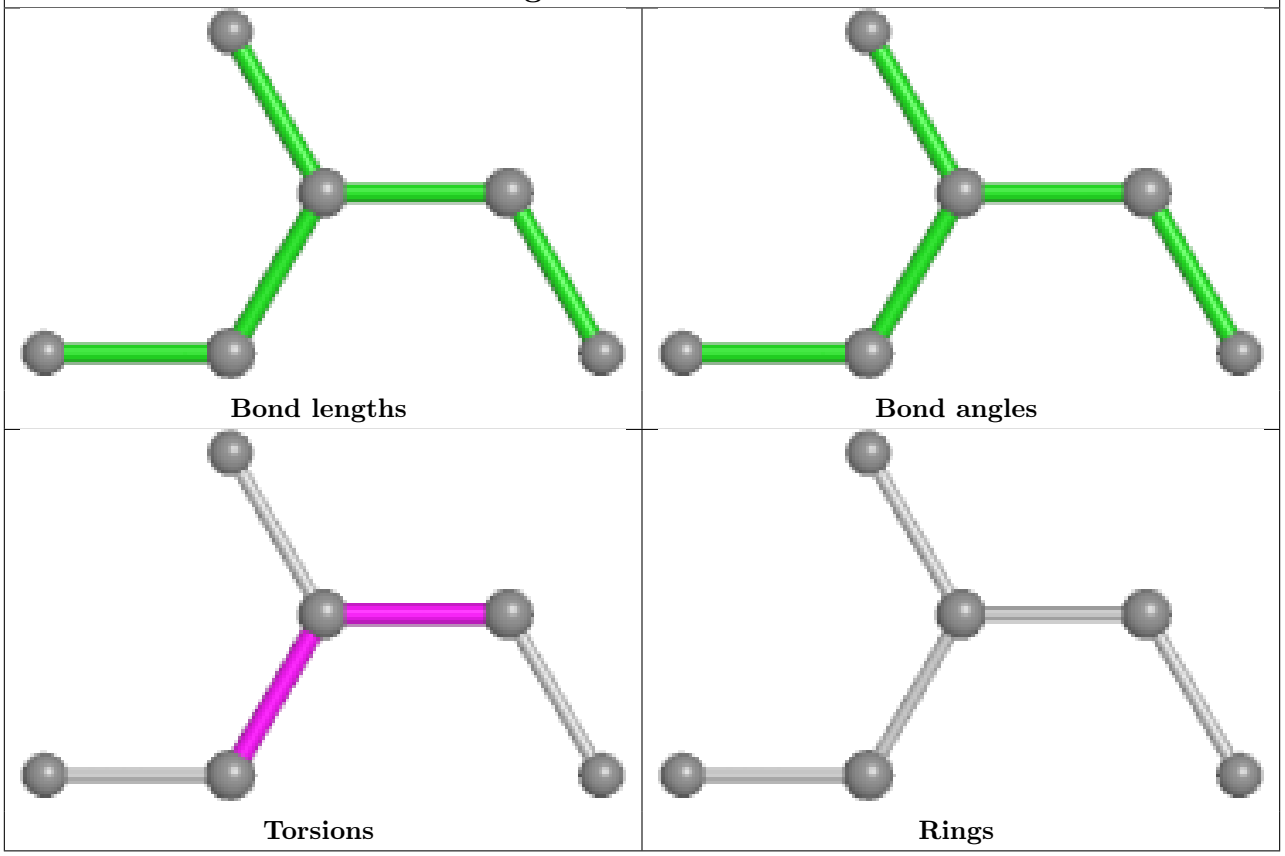
Ligand GOL C 308



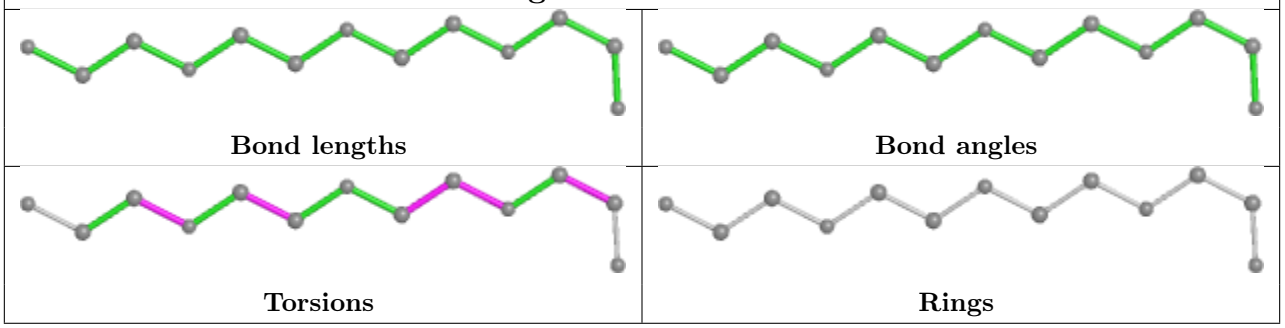
Ligand PE8 B 138



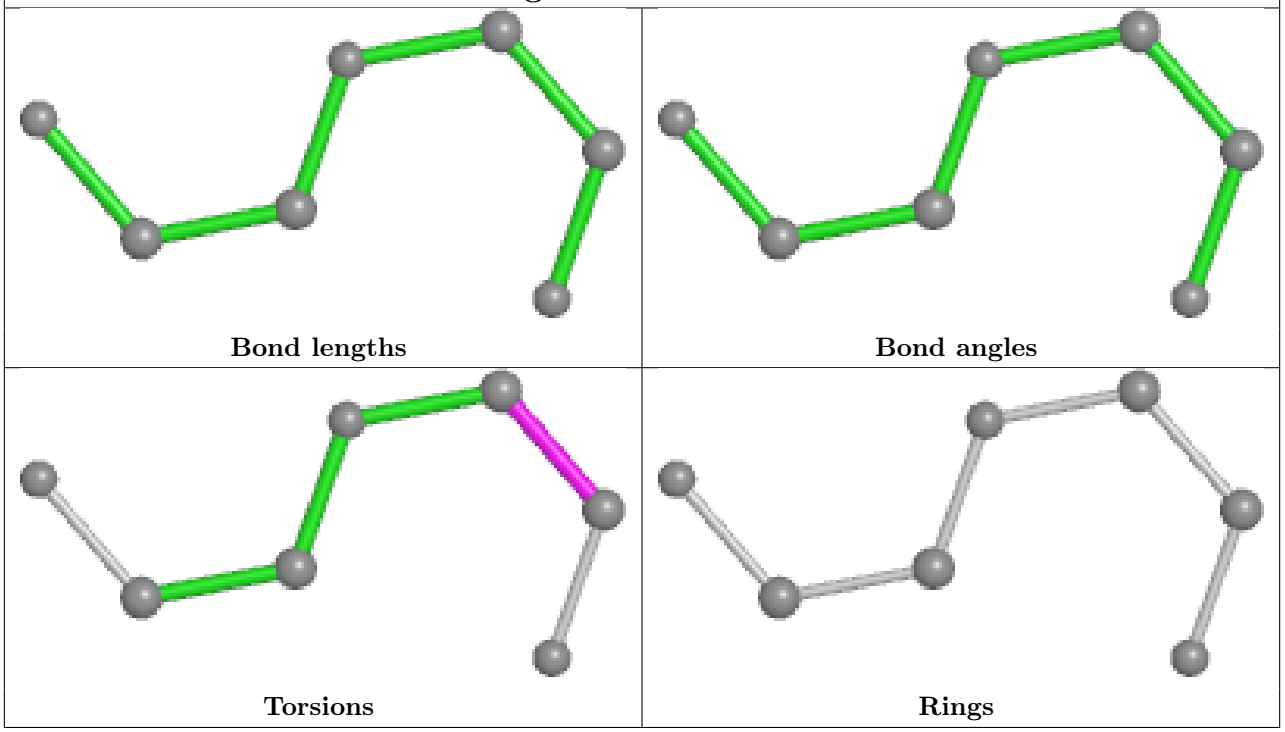
Ligand GOL C 310



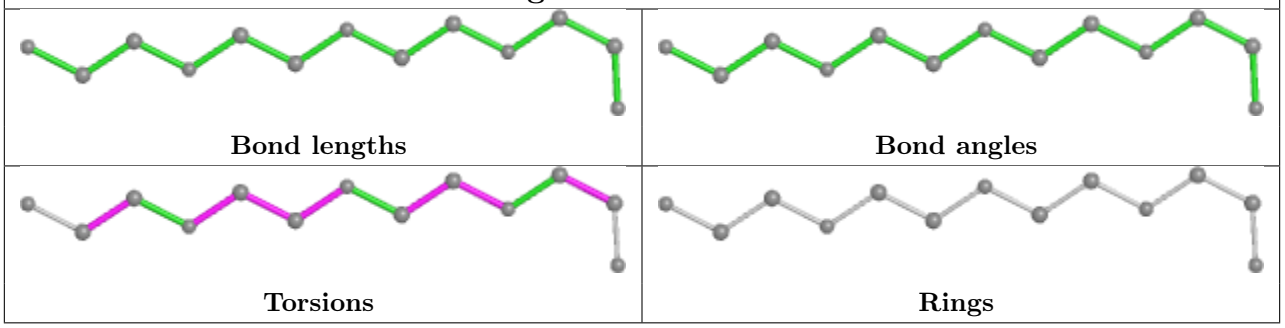
Ligand PG4 E 115



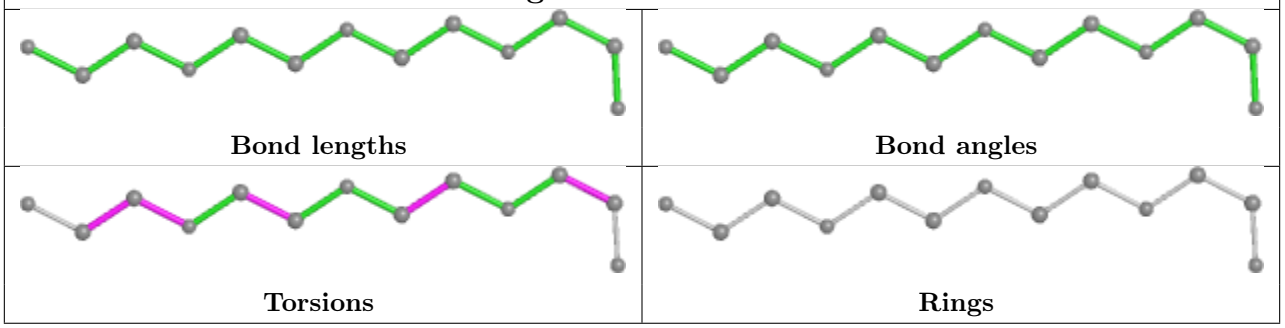
Ligand PEG B 135



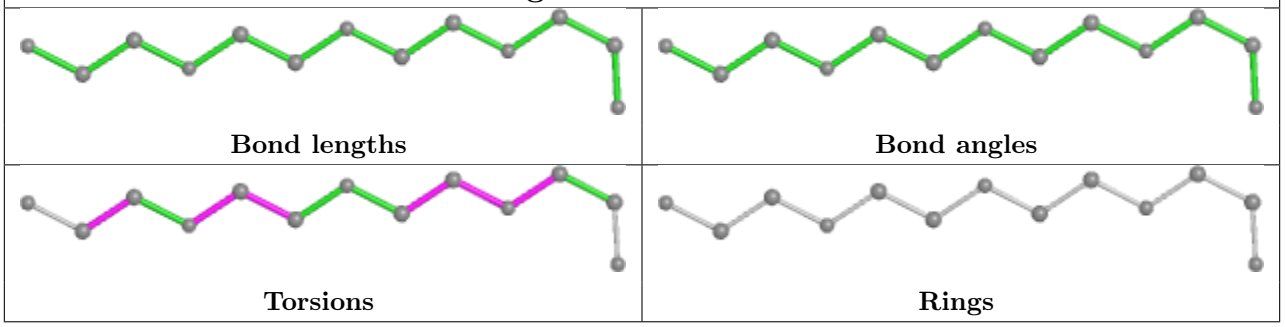
Ligand PG4 C 320



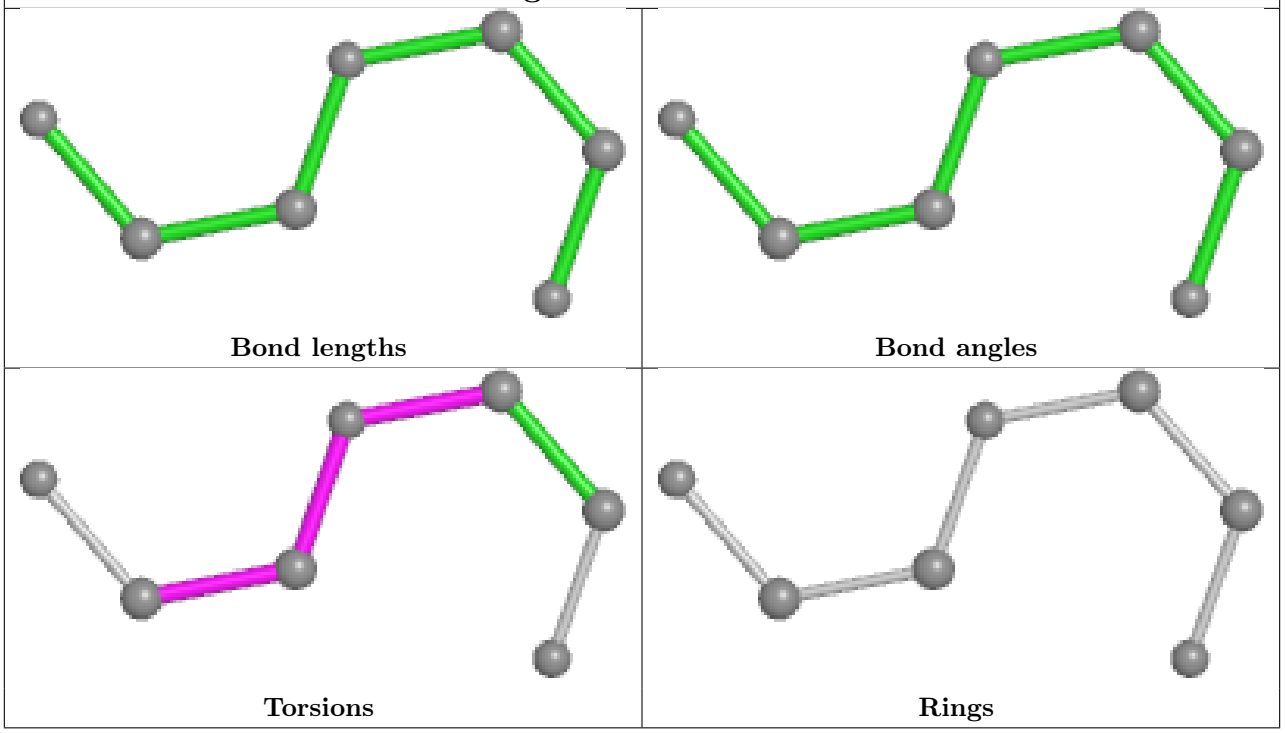
Ligand PG4 A 319



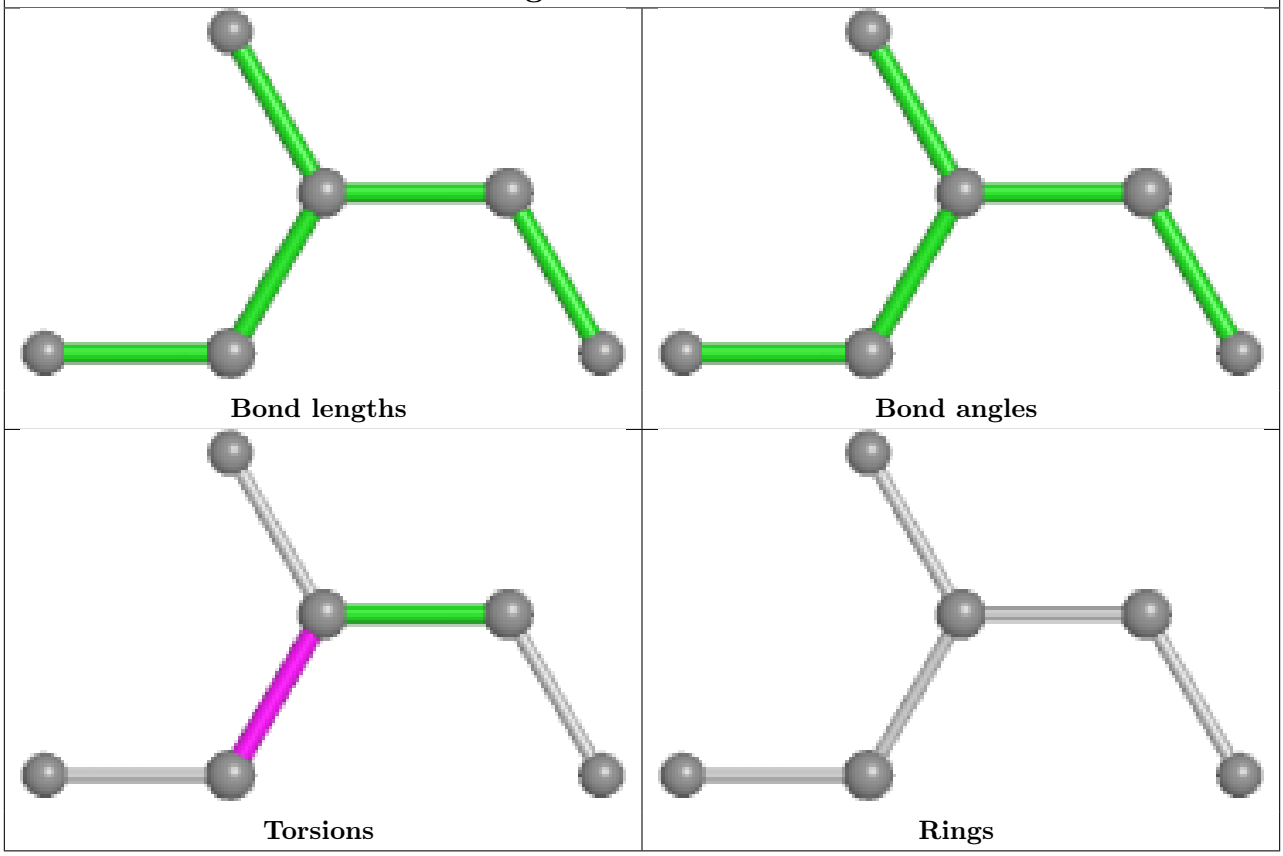
Ligand PG4 A 367



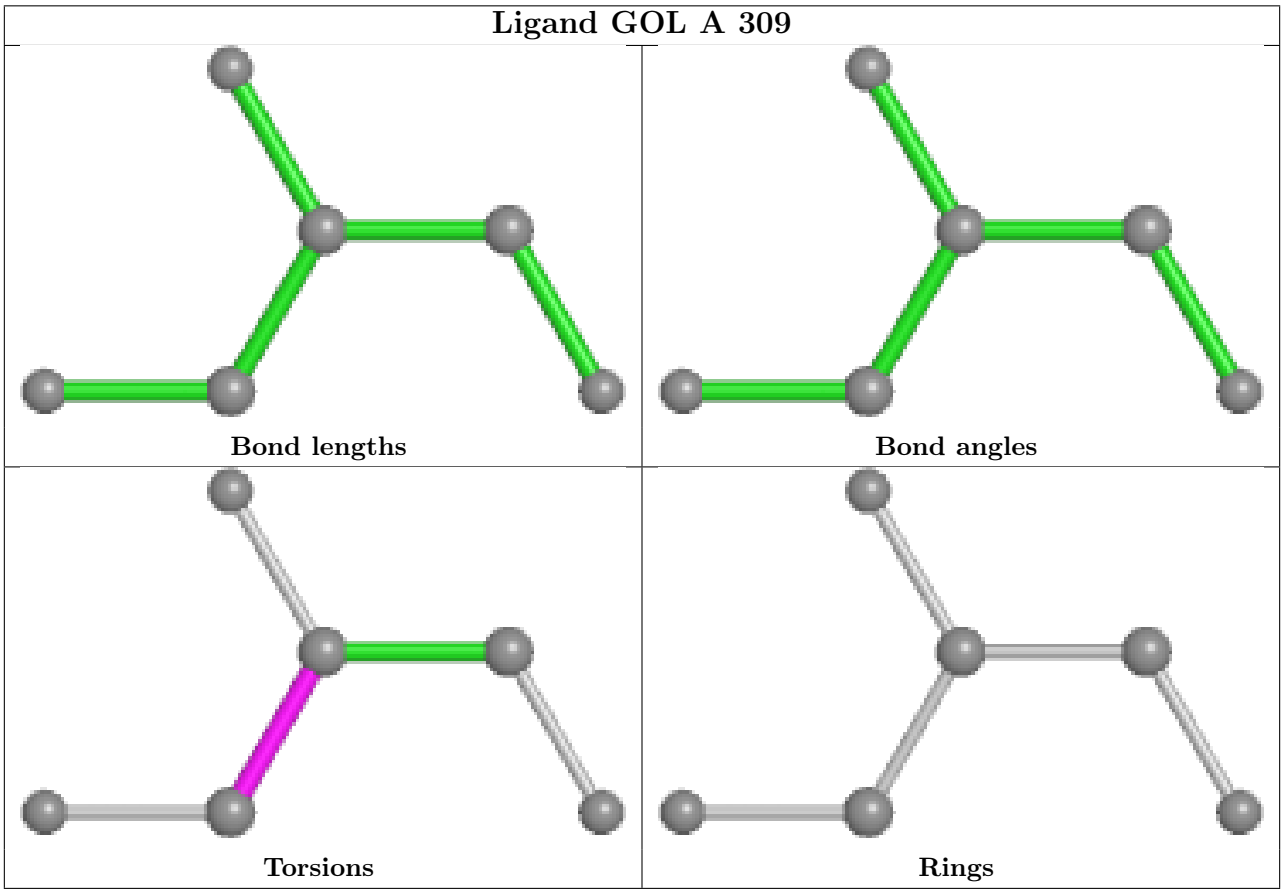
Ligand PEG D 126



Ligand GOL E 103



Ligand GOL A 309



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	241/241 (100%)	0.48	18 (7%) 14 13	46, 74, 98, 128	0
1	C	241/241 (100%)	0.53	27 (11%) 5 5	48, 76, 94, 111	0
2	B	98/98 (100%)	0.98	19 (19%) 1 1	58, 86, 102, 107	0
2	D	98/98 (100%)	0.34	9 (9%) 9 9	53, 72, 96, 111	0
3	E	9/9 (100%)	-0.18	0 100 100	65, 80, 96, 97	0
4	F	9/9 (100%)	-0.15	0 100 100	54, 64, 70, 70	0
All	All	696/696 (100%)	0.53	73 (10%) 6 6	46, 76, 98, 128	0

All (73) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	45	THR	6.3
2	B	52	ASN	5.2
2	D	59	ALA	4.9
2	B	55	ILE	4.8
1	C	66	SER	4.8
2	B	53	TYR	4.6
2	B	26	GLN	4.6
1	A	24	TRP	4.6
1	C	119	CYS	4.4
1	A	221	ASP	4.1
1	A	142	PHE	4.0
2	B	40	ALA	3.9
1	C	186	ILE	3.9
2	B	38	LEU	3.8
2	B	95	LEU	3.6
1	C	115	ASN	3.6
1	A	47	SER	3.6
1	C	88	ALA	3.3
2	D	44	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	143	LEU	3.2
1	C	176	VAL	3.2
1	C	177	MET	3.1
1	C	155	ASP	3.1
2	B	41	VAL	3.0
1	A	64	THR	3.0
2	B	25	PRO	2.9
1	A	45	PHE	2.8
1	A	36	GLN	2.8
2	B	89	LYS	2.8
2	B	19	ILE	2.7
2	D	69	VAL	2.7
1	C	89	PHE	2.7
1	C	223	SER	2.7
1	C	151	ALA	2.7
1	C	144	GLY	2.7
1	C	226	MET	2.7
1	C	42	CYS	2.6
2	B	47	VAL	2.6
2	B	62	ASN	2.6
1	C	51	VAL	2.6
1	A	48	ILE	2.6
1	C	237	ILE	2.6
2	B	88	ASP	2.5
1	A	163	ILE	2.5
1	A	146	ILE	2.5
2	B	90	ASN	2.5
1	A	111	PRO	2.5
1	C	77	ASN	2.4
1	A	141	ARG	2.4
1	C	232	GLY	2.4
2	B	20	VAL	2.4
2	D	8	GLU	2.4
1	C	150	VAL	2.4
1	C	99	CYS	2.4
2	B	60	GLY	2.3
2	D	60	GLY	2.3
1	C	156	PHE	2.3
1	C	72	ASP	2.3
1	A	180	GLY	2.3
1	C	166	GLY	2.3
1	A	46	SER	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	3	ASN	2.3
1	C	178	LEU	2.2
2	B	32	ASN	2.2
1	A	199	TYR	2.1
1	C	194	GLY	2.1
2	D	68	ARG	2.1
1	A	173	ASN	2.1
2	D	97	GLY	2.1
1	C	149	SER	2.1
2	B	21	ASP	2.0
2	D	93	ASP	2.0
1	C	225	LEU	2.0

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
6	NA	A	360	1/1	0.58	0.34	48,48,48,48	0
9	PEG	B	134	7/7	0.61	0.32	46,61,76,88	0
5	GOL	C	305	6/6	0.63	0.42	60,80,82,90	0
6	NA	D	114	1/1	0.68	0.52	40,40,40,40	0
7	PG4	B	101	13/13	0.69	0.28	34,57,72,85	0
11	EDO	B	143	4/4	0.69	1.06	68,71,73,88	0
9	PEG	D	104	7/7	0.70	0.62	28,44,62,67	0
7	PG4	C	302	13/13	0.71	0.38	42,57,82,91	0
6	NA	D	135	1/1	0.72	0.25	50,50,50,50	0
6	NA	B	141	1/1	0.72	0.93	67,67,67,67	0
9	PEG	B	129	7/7	0.74	0.43	49,70,79,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	GOL	A	314	6/6	0.75	0.27	31,47,73,77	0
7	PG4	E	105	13/13	0.75	0.31	33,51,60,66	0
6	NA	D	136	1/1	0.76	0.28	69,69,69,69	0
5	GOL	C	307	6/6	0.76	0.34	67,72,78,86	0
5	GOL	D	110	6/6	0.76	0.36	48,64,67,74	0
5	GOL	B	152	6/6	0.76	0.31	65,76,91,96	0
6	NA	B	113	1/1	0.77	0.26	45,45,45,45	0
6	NA	B	115	1/1	0.77	1.02	55,55,55,55	0
7	PG4	A	326	13/13	0.77	0.45	42,55,77,85	0
9	PEG	B	135	7/7	0.77	0.28	38,42,62,67	0
6	NA	A	355	1/1	0.77	0.31	42,42,42,42	0
5	GOL	D	113	6/6	0.77	0.30	41,63,70,77	0
9	PEG	A	331	7/7	0.78	0.32	53,62,75,78	0
10	PE8	A	343	25/25	0.78	0.27	31,41,55,63	0
6	NA	A	356	1/1	0.78	0.40	49,49,49,49	0
7	PG4	D	120	13/13	0.79	0.26	49,58,75,75	0
9	PEG	D	105	7/7	0.79	0.51	55,68,82,83	0
6	NA	E	112	1/1	0.79	0.20	58,58,58,58	0
6	NA	B	114	1/1	0.79	0.48	66,66,66,66	0
6	NA	C	341	1/1	0.80	0.57	61,61,61,61	0
7	PG4	A	325	13/13	0.80	0.22	39,57,79,80	0
10	PE8	F	106	25/25	0.80	0.26	39,53,66,70	0
6	NA	B	146	1/1	0.80	0.36	45,45,45,45	0
9	PEG	A	337	7/7	0.81	0.32	62,71,78,88	0
5	GOL	E	104	6/6	0.81	0.28	74,76,79,82	0
7	PG4	A	324	13/13	0.81	0.22	43,55,70,80	0
5	GOL	F	103	6/6	0.81	0.43	37,42,55,62	0
9	PEG	C	328	7/7	0.81	0.28	39,43,55,60	0
9	PEG	B	128	7/7	0.82	0.28	51,60,69,69	0
7	PG4	D	118	13/13	0.82	0.20	32,51,72,73	0
7	PG4	A	321	13/13	0.82	0.24	47,57,71,81	0
7	PG4	B	118	13/13	0.82	0.24	53,57,67,73	0
7	PG4	F	105	13/13	0.82	0.23	38,54,62,63	0
9	PEG	C	331	7/7	0.82	0.23	53,70,81,89	0
9	PEG	A	329	7/7	0.82	0.41	42,58,66,72	0
7	PG4	A	368	13/13	0.82	0.31	37,45,64,68	0
10	PE8	A	342	25/25	0.82	0.20	40,65,79,86	0
9	PEG	A	333	7/7	0.82	0.23	43,50,70,80	0
7	PG4	D	103	13/13	0.82	0.24	53,66,75,78	0
9	PEG	A	341	7/7	0.82	0.36	42,51,64,67	0
11	EDO	D	101	4/4	0.82	0.32	56,57,57,59	0
7	PG4	C	325	13/13	0.83	0.39	46,56,70,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	GOL	E	103	6/6	0.83	0.23	64,69,72,90	0
5	GOL	B	105	6/6	0.83	0.23	34,44,54,69	0
5	GOL	C	344	6/6	0.83	0.20	27,53,58,61	0
7	PG4	C	320	13/13	0.83	0.27	35,52,63,72	0
7	PG4	C	324	13/13	0.83	0.29	57,68,77,81	0
9	PEG	C	333	7/7	0.84	0.44	50,53,54,71	0
6	NA	A	315	1/1	0.84	0.32	38,38,38,38	0
6	NA	B	151	1/1	0.84	0.21	34,34,34,34	0
9	PEG	D	127	7/7	0.84	0.22	46,60,68,71	0
7	PG4	C	336	13/13	0.84	0.29	36,58,72,73	0
7	PG4	A	365	13/13	0.84	0.20	34,39,52,57	0
10	PE8	B	102	25/25	0.84	0.19	31,48,62,80	0
5	GOL	B	140	6/6	0.84	0.26	61,68,73,80	0
11	EDO	A	351	4/4	0.84	0.54	51,58,60,70	0
9	PEG	A	335	7/7	0.84	0.23	34,48,58,62	0
7	PG4	C	322	13/13	0.84	0.23	51,57,66,73	0
5	GOL	A	345	6/6	0.85	0.39	41,53,53,56	0
7	PG4	A	323	13/13	0.85	0.26	67,76,84,87	0
5	GOL	C	306	6/6	0.85	0.27	48,60,77,81	0
5	GOL	B	107	6/6	0.85	0.20	48,51,54,59	0
6	NA	D	132	1/1	0.85	0.15	24,24,24,24	0
7	PG4	A	352	13/13	0.85	0.28	49,59,68,68	0
6	NA	A	348	1/1	0.85	0.38	51,51,51,51	0
7	PG4	A	366	13/13	0.85	0.20	35,47,70,80	0
9	PEG	A	371	7/7	0.85	0.36	40,44,55,57	0
10	PE8	E	110	25/25	0.85	0.19	40,51,63,64	0
10	PE8	F	102	25/25	0.85	0.20	40,52,65,82	0
7	PG4	D	116	13/13	0.85	0.26	19,41,61,79	0
7	PG4	D	117	13/13	0.85	0.21	30,52,68,73	0
5	GOL	D	131	6/6	0.85	0.27	58,64,84,96	0
5	GOL	C	312	6/6	0.85	0.24	40,68,71,72	0
11	EDO	D	102	4/4	0.85	0.25	62,66,73,90	0
11	EDO	D	130	4/4	0.85	0.24	44,57,58,61	0
7	PG4	E	106	13/13	0.86	0.18	26,50,62,68	0
7	PG4	F	101	13/13	0.86	0.18	43,56,74,75	0
7	PG4	B	120	13/13	0.86	0.27	36,48,53,59	0
10	PE8	A	344	25/25	0.86	0.25	31,56,73,77	0
5	GOL	D	107	6/6	0.86	0.26	57,61,61,62	0
7	PG4	C	319	13/13	0.86	0.23	31,50,66,67	0
5	GOL	B	109	6/6	0.86	0.24	48,50,58,62	0
9	PEG	C	329	7/7	0.86	0.23	50,53,59,63	0
9	PEG	C	330	7/7	0.86	0.26	37,45,51,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
6	NA	A	317	1/1	0.86	0.43	55,55,55,55	0
5	GOL	A	303	6/6	0.86	0.30	55,62,66,68	0
9	PEG	A	338	7/7	0.86	0.40	52,55,77,79	0
7	PG4	A	322	13/13	0.86	0.26	38,53,58,62	0
5	GOL	C	313	6/6	0.87	0.22	38,45,56,59	0
9	PEG	B	130	7/7	0.87	0.22	41,44,60,69	0
9	PEG	C	332	7/7	0.87	0.30	38,43,57,58	0
9	PEG	A	339	7/7	0.87	0.53	45,54,63,67	0
9	PEG	C	334	7/7	0.87	0.27	41,56,68,69	0
5	GOL	A	306	6/6	0.87	0.22	48,52,59,80	0
7	PG4	E	114	13/13	0.87	0.20	35,54,72,83	0
9	PEG	D	121	7/7	0.87	0.28	31,44,65,66	0
9	PEG	D	122	7/7	0.87	0.23	31,41,60,62	0
9	PEG	D	123	7/7	0.87	0.24	51,55,61,66	0
9	PEG	A	330	7/7	0.87	0.30	36,54,61,73	0
9	PEG	D	128	7/7	0.87	0.29	37,41,59,63	0
5	GOL	A	305	6/6	0.88	0.18	22,25,29,37	0
9	PEG	B	132	7/7	0.88	0.26	45,56,70,76	0
7	PG4	C	321	13/13	0.88	0.18	34,41,56,59	0
5	GOL	B	108	6/6	0.88	0.19	50,57,73,73	0
6	NA	D	134	1/1	0.88	0.21	37,37,37,37	0
5	GOL	C	314	6/6	0.88	0.21	37,58,65,69	0
5	GOL	C	309	6/6	0.88	0.28	29,43,50,74	0
10	PE8	B	136	25/25	0.88	0.24	34,62,80,86	0
5	GOL	C	310	6/6	0.88	0.27	47,62,77,95	0
7	PG4	A	369	13/13	0.88	0.25	39,50,69,70	0
7	PG4	A	320	13/13	0.88	0.18	22,45,63,64	0
7	PG4	B	116	13/13	0.88	0.22	27,45,56,64	0
5	GOL	E	113	6/6	0.88	0.20	46,52,57,64	0
6	NA	A	358	1/1	0.88	0.23	47,47,47,47	0
6	NA	C	318	1/1	0.88	0.21	40,40,40,40	0
6	NA	A	359	1/1	0.88	0.25	58,58,58,58	0
5	GOL	A	347	6/6	0.89	0.24	60,71,75,79	0
9	PEG	D	126	7/7	0.89	0.35	47,57,74,79	0
5	GOL	C	304	6/6	0.89	0.27	44,54,59,71	0
5	GOL	C	311	6/6	0.89	0.26	54,73,88,92	0
5	GOL	B	103	6/6	0.89	0.42	55,59,70,86	0
6	NA	C	316	1/1	0.89	0.49	60,60,60,60	0
7	PG4	C	323	13/13	0.89	0.16	38,48,66,69	0
7	PG4	A	319	13/13	0.89	0.15	44,54,68,69	0
6	NA	C	317	1/1	0.89	0.19	36,36,36,36	0
10	PE8	C	335	25/25	0.89	0.15	36,49,61,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
6	NA	A	316	1/1	0.89	0.31	29,29,29,29	0
5	GOL	B	104	6/6	0.89	0.34	40,42,57,60	0
5	GOL	A	302	6/6	0.89	0.22	40,44,59,66	0
6	NA	D	129	1/1	0.89	0.27	82,82,82,82	0
7	PG4	B	121	13/13	0.89	0.17	46,55,78,83	0
9	PEG	A	353	7/7	0.89	0.19	39,52,64,65	0
7	PG4	B	123	13/13	0.89	0.15	29,41,58,62	0
7	PG4	B	125	13/13	0.89	0.19	49,57,66,79	0
7	PG4	B	117	13/13	0.90	0.15	39,51,59,61	0
7	PG4	A	367	13/13	0.90	0.16	27,42,62,62	0
9	PEG	A	332	7/7	0.90	0.21	54,56,65,69	0
7	PG4	B	119	13/13	0.90	0.19	36,54,64,64	0
9	PEG	A	334	7/7	0.90	0.19	36,45,65,78	0
9	PEG	C	303	7/7	0.90	0.19	32,44,66,69	0
9	PEG	C	327	7/7	0.90	0.21	45,52,64,80	0
6	NA	B	148	1/1	0.90	0.12	39,39,39,39	0
6	NA	C	342	1/1	0.90	0.34	24,24,24,24	0
7	PG4	B	122	13/13	0.90	0.14	41,53,65,74	0
7	PG4	E	107	13/13	0.90	0.24	50,58,68,69	0
6	NA	B	150	1/1	0.90	0.23	40,40,40,40	0
7	PG4	B	124	13/13	0.90	0.21	23,52,61,62	0
5	GOL	D	109	6/6	0.90	0.16	36,53,66,77	0
9	PEG	C	339	7/7	0.90	0.19	38,44,54,55	0
9	PEG	C	346	7/7	0.90	0.14	36,42,53,62	0
11	EDO	B	144	4/4	0.90	0.40	57,72,74,74	0
9	PEG	A	372	7/7	0.90	0.17	44,45,48,51	0
9	PEG	B	126	7/7	0.90	0.25	48,56,70,75	0
7	PG4	B	155	13/13	0.90	0.19	35,41,52,55	0
11	EDO	E	101	4/4	0.90	0.18	31,49,56,73	0
6	NA	C	315	1/1	0.91	0.38	33,33,33,33	0
5	GOL	D	112	6/6	0.91	0.16	25,44,46,47	0
9	PEG	A	336	7/7	0.91	0.18	44,50,69,70	0
10	PE8	B	137	25/25	0.91	0.17	20,49,64,72	0
5	GOL	A	309	6/6	0.91	0.17	22,32,34,47	0
5	GOL	B	111	6/6	0.91	0.15	57,72,83,87	0
9	PEG	B	139	7/7	0.91	0.17	34,38,45,46	0
9	PEG	B	142	7/7	0.91	0.24	33,37,41,49	0
5	GOL	A	310	6/6	0.91	0.24	38,49,51,68	0
5	GOL	A	313	6/6	0.91	0.27	31,40,43,47	0
6	NA	C	343	1/1	0.91	0.18	34,34,34,34	0
5	GOL	D	108	6/6	0.91	0.20	49,57,62,62	0
6	NA	D	115	1/1	0.91	0.16	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	GOL	A	362	6/6	0.91	0.31	23,36,45,55	0
5	GOL	A	373	6/6	0.91	0.20	47,54,60,71	0
5	GOL	B	112	6/6	0.92	0.20	38,51,58,61	0
9	PEG	B	127	7/7	0.92	0.34	23,29,56,59	0
9	PEG	B	156	7/7	0.92	0.14	25,42,51,56	0
9	PEG	B	157	7/7	0.92	0.16	42,49,65,73	0
5	GOL	A	308	6/6	0.92	0.15	29,32,36,52	0
6	NA	A	318	1/1	0.92	0.14	39,39,39,39	0
5	GOL	D	106	6/6	0.92	0.17	19,39,51,54	0
5	GOL	B	110	6/6	0.92	0.25	51,55,62,69	0
7	PG4	D	119	13/13	0.92	0.15	37,50,65,74	0
5	GOL	B	106	6/6	0.92	0.18	34,45,62,70	0
11	EDO	E	111	4/4	0.92	0.20	51,54,62,68	0
5	GOL	A	312	6/6	0.93	0.17	38,49,55,56	0
5	GOL	C	337	6/6	0.93	0.20	39,43,61,67	0
6	NA	A	349	1/1	0.93	0.20	32,32,32,32	0
10	PE8	B	138	25/25	0.93	0.17	32,49,67,70	0
5	GOL	A	307	6/6	0.93	0.34	56,64,75,84	0
10	PE8	E	109	25/25	0.93	0.12	27,46,67,71	0
6	NA	B	145	1/1	0.93	0.20	54,54,54,54	0
9	PEG	B	158	7/7	0.93	0.13	10,26,37,38	0
5	GOL	C	347	6/6	0.93	0.31	33,49,62,75	0
5	GOL	C	308	6/6	0.93	0.14	29,35,48,52	0
9	PEG	D	124	7/7	0.93	0.16	24,38,50,54	0
5	GOL	A	304	6/6	0.93	0.17	38,44,50,55	0
8	SO4	A	327	5/5	0.93	0.18	56,57,68,74	0
9	PEG	B	131	7/7	0.93	0.14	42,52,72,73	0
5	GOL	D	137	6/6	0.93	0.16	24,32,38,57	0
9	PEG	B	133	7/7	0.93	0.22	51,70,78,85	0
9	PEG	A	340	7/7	0.93	0.13	43,47,61,68	0
6	NA	A	350	1/1	0.94	0.16	30,30,30,30	0
6	NA	A	354	1/1	0.94	0.30	22,22,22,22	0
5	GOL	A	364	6/6	0.94	0.17	36,43,49,55	0
5	GOL	A	301	6/6	0.94	0.17	46,57,59,60	0
5	GOL	C	338	6/6	0.94	0.14	24,60,69,74	0
7	PG4	E	115	13/13	0.94	0.11	59,67,73,82	0
9	PEG	D	125	7/7	0.94	0.29	29,34,63,65	0
5	GOL	A	311	6/6	0.94	0.14	27,30,31,36	0
6	NA	C	340	1/1	0.94	0.17	34,34,34,34	0
5	GOL	C	345	6/6	0.94	0.22	37,44,54,61	0
8	SO4	C	326	5/5	0.94	0.13	60,62,71,98	0
6	NA	B	149	1/1	0.94	0.27	33,33,33,33	0

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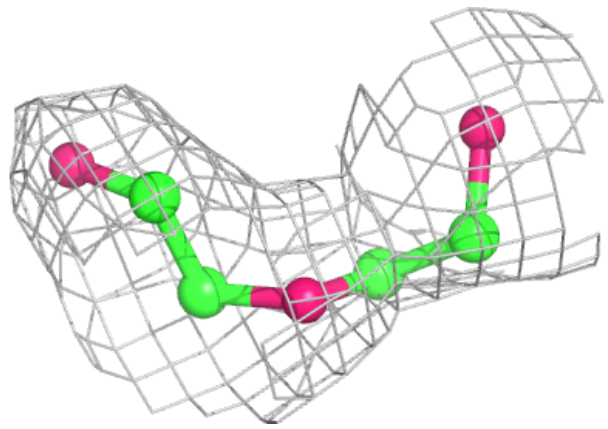
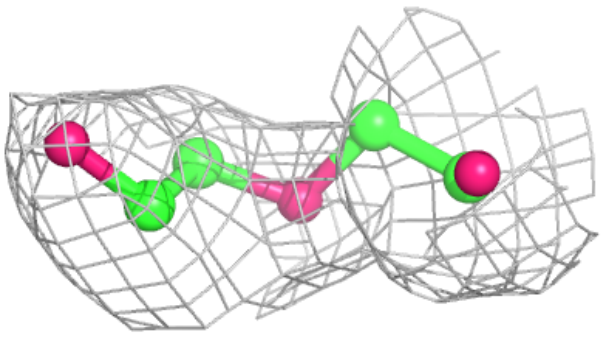
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
9	PEG	A	346	7/7	0.94	0.16	35,41,69,80	0
6	NA	F	107	1/1	0.94	0.28	35,35,35,35	0
9	PEG	A	370	7/7	0.94	0.33	28,33,54,57	0
8	SO4	A	328	5/5	0.95	0.16	43,55,61,65	0
8	SO4	C	301	5/5	0.95	0.18	71,72,72,92	0
5	GOL	B	154	6/6	0.95	0.39	23,26,27,31	0
5	GOL	B	153	6/6	0.95	0.11	44,45,46,53	0
5	GOL	D	111	6/6	0.95	0.17	42,47,54,60	0
6	NA	B	147	1/1	0.95	0.14	34,34,34,34	0
6	NA	F	104	1/1	0.95	0.37	36,36,36,36	0
5	GOL	A	363	6/6	0.96	0.12	34,45,54,54	0
8	SO4	E	108	5/5	0.96	0.17	41,52,66,72	0
6	NA	D	133	1/1	0.97	0.07	22,22,22,22	0
5	GOL	E	102	6/6	0.97	0.13	32,44,53,64	0
6	NA	A	357	1/1	0.98	0.11	21,21,21,21	0

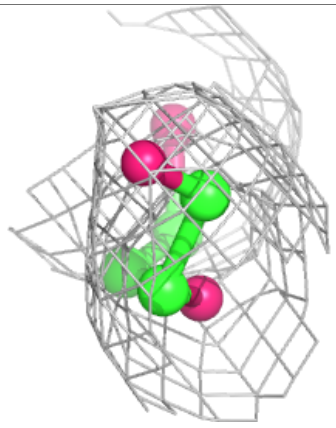
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around PEG B 134:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

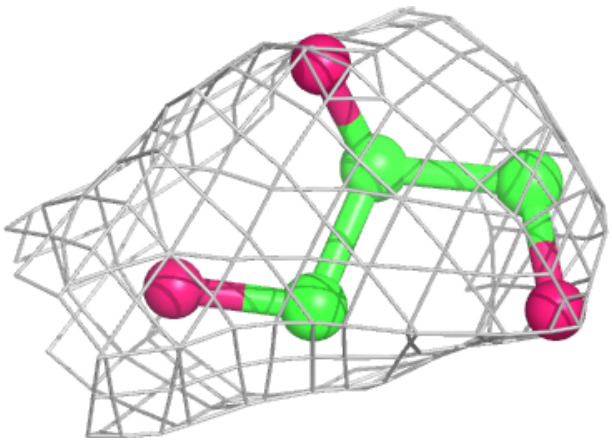


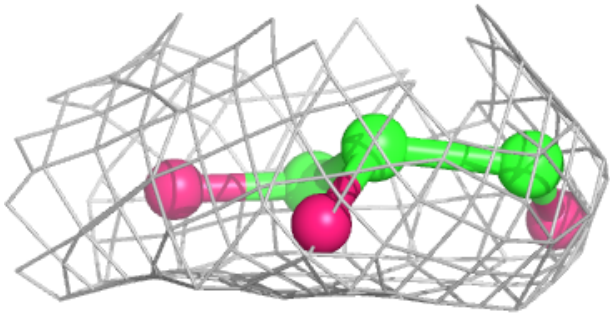


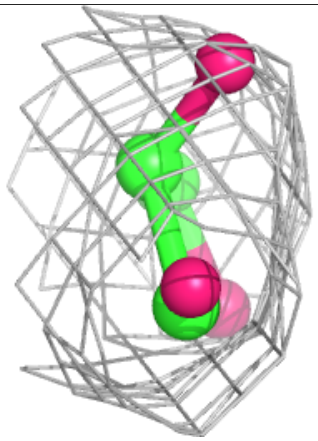


Electron density around GOL C 305:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

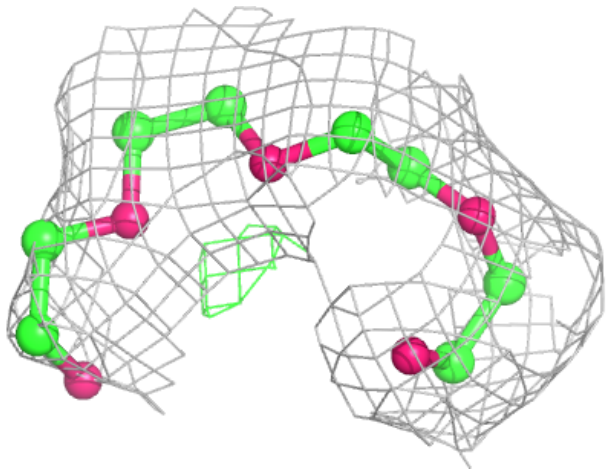


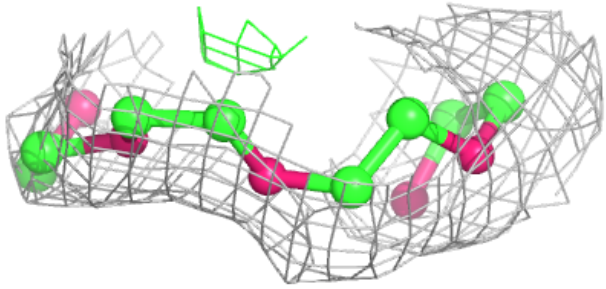


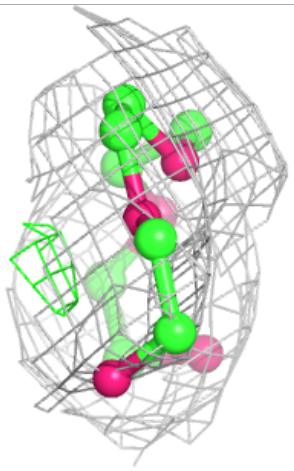


Electron density around PG4 B 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

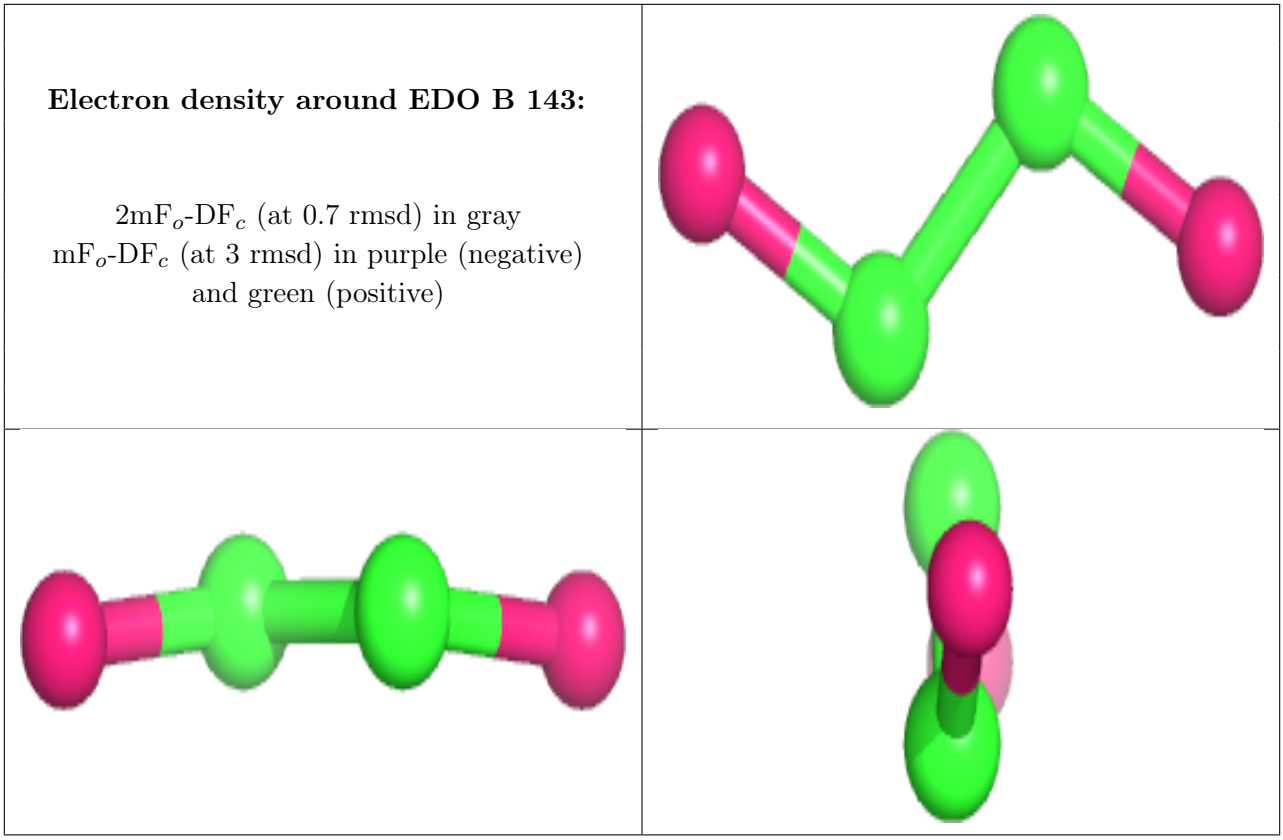






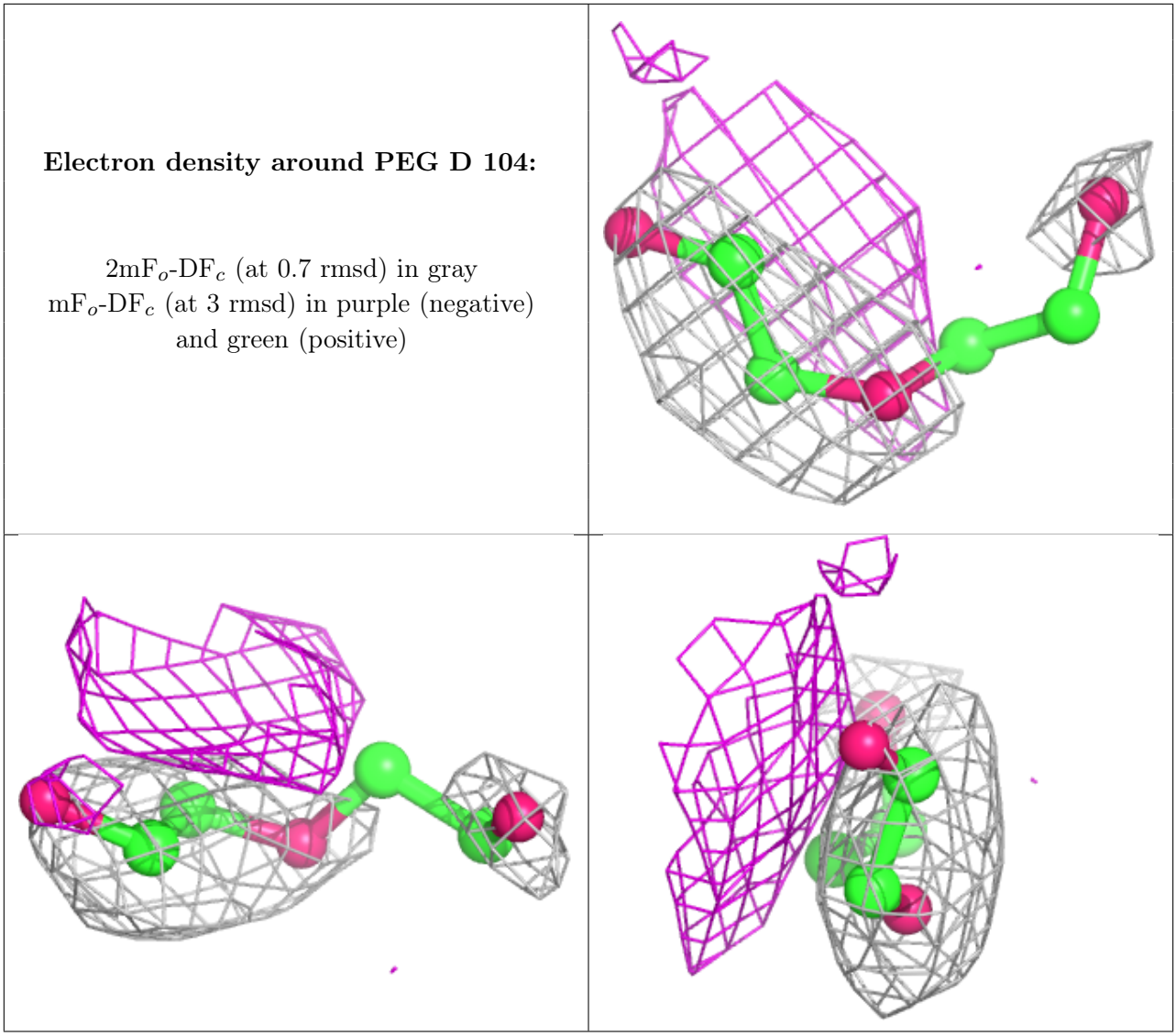
Electron density around EDO B 143:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



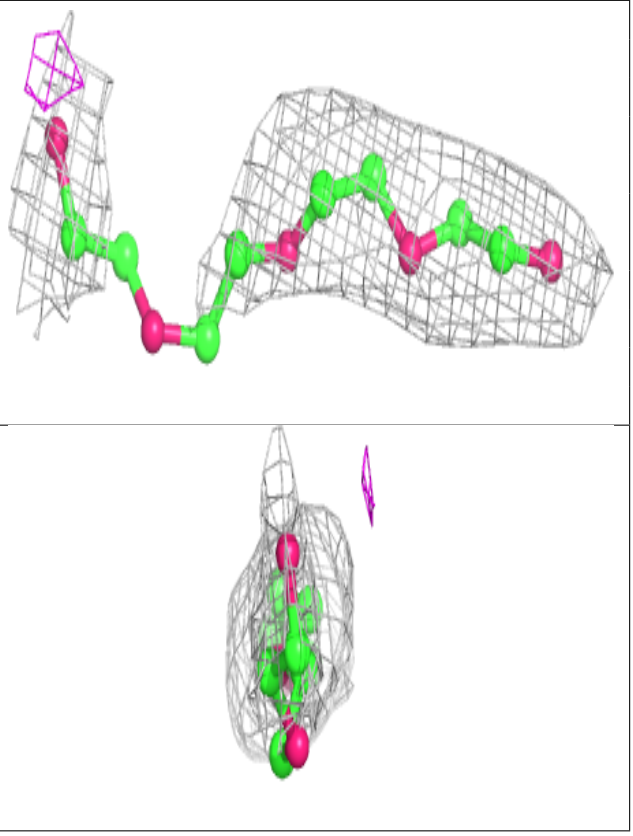
Electron density around PEG D 104:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



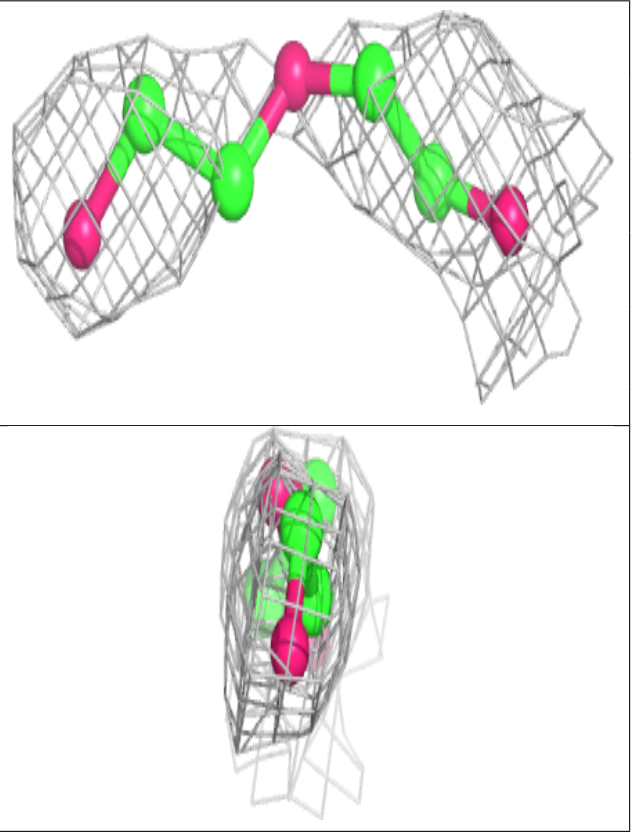
Electron density around PG4 C 302:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



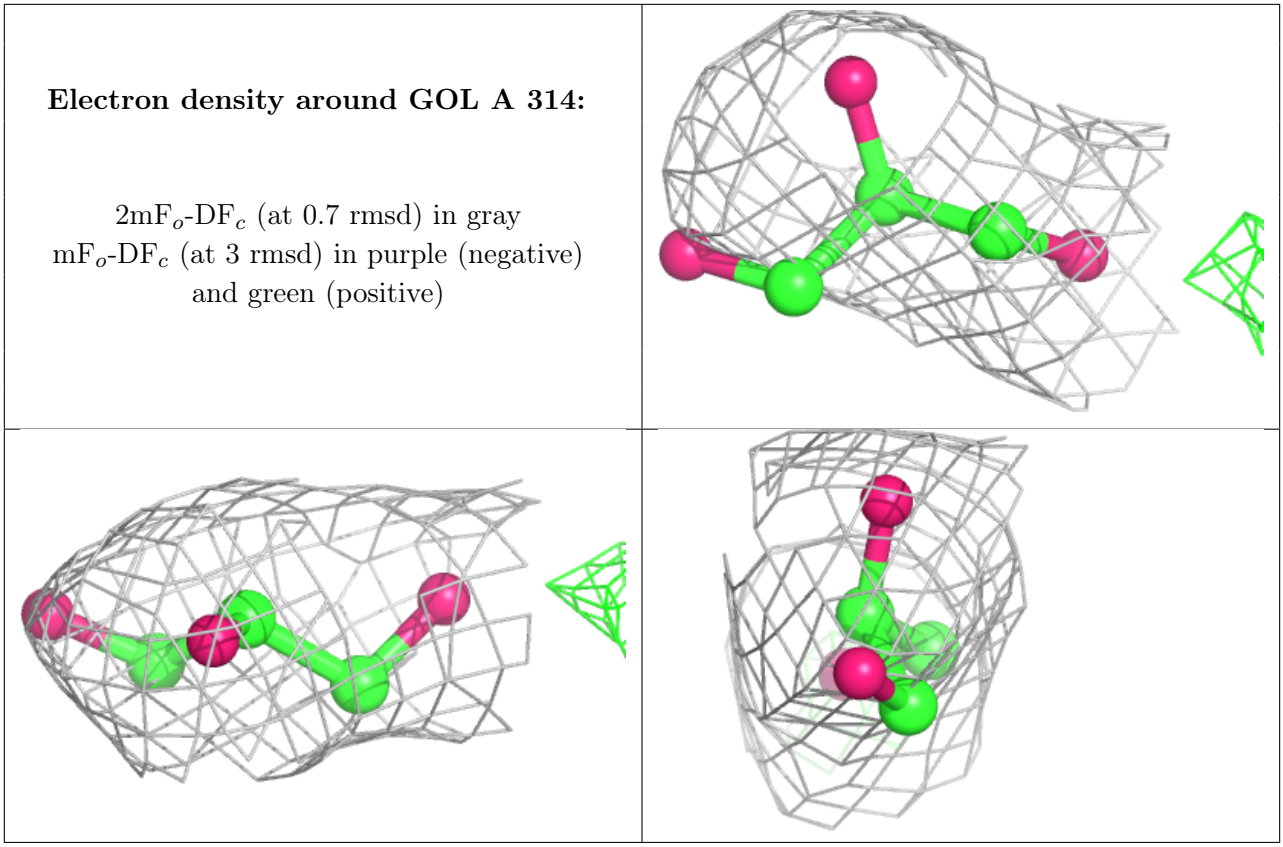
Electron density around PEG B 129:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



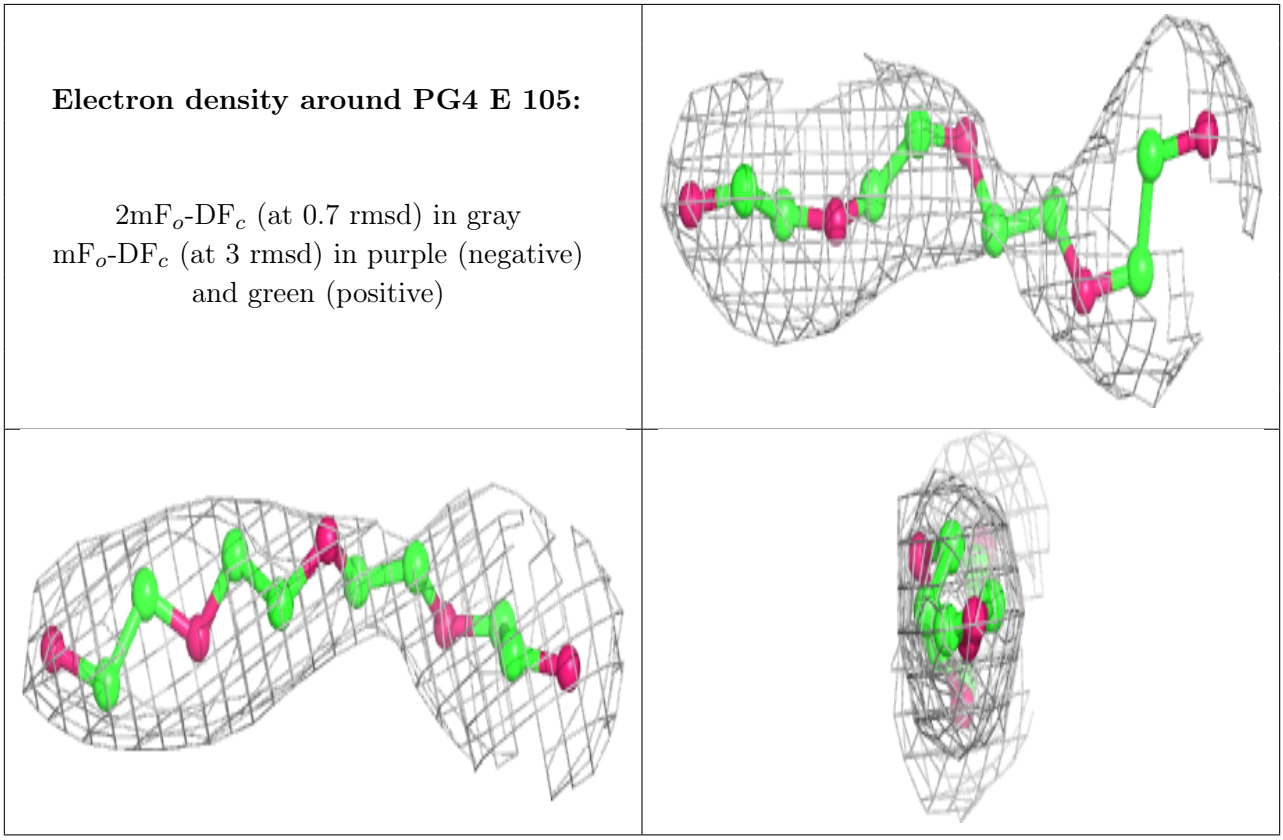
Electron density around GOL A 314:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



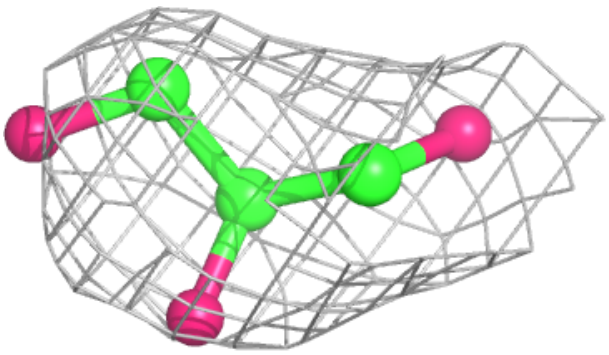
Electron density around PG4 E 105:

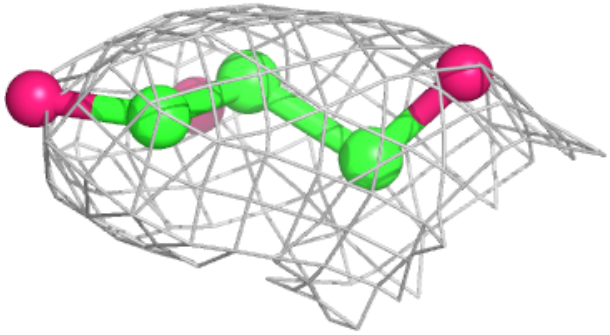
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

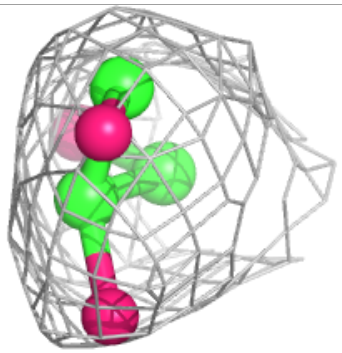


Electron density around GOL C 307:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

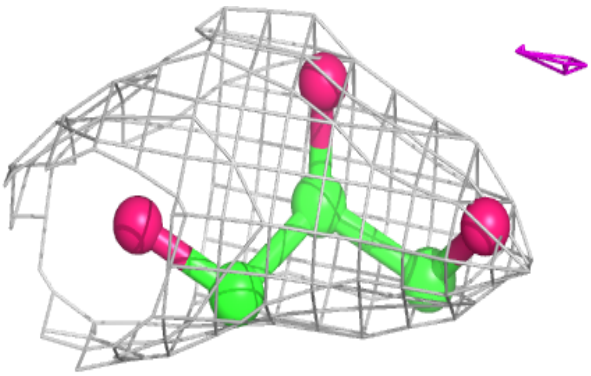


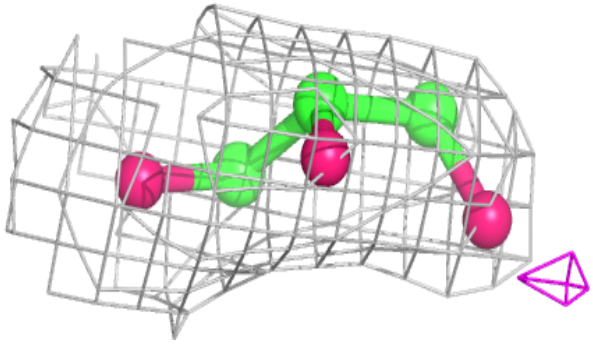


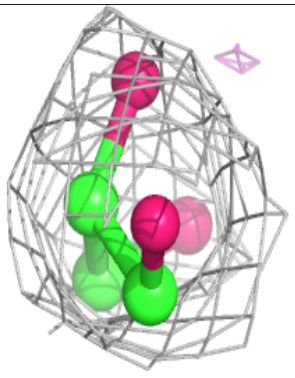


Electron density around GOL D 110:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

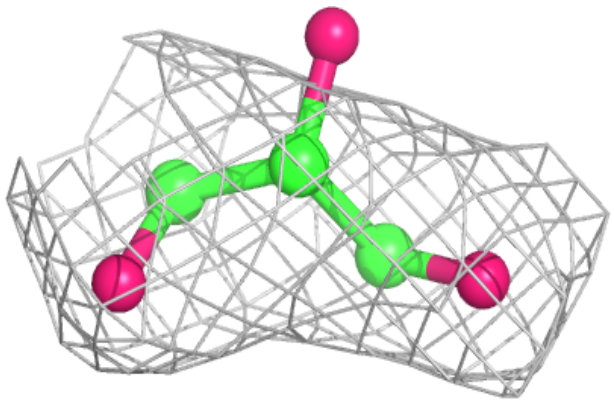


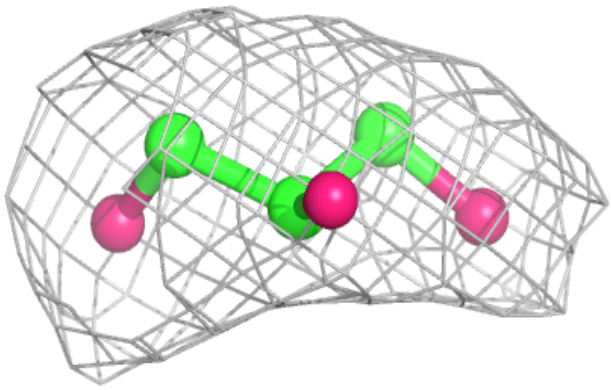


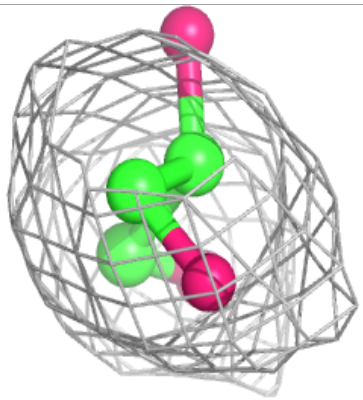


Electron density around GOL B 152:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

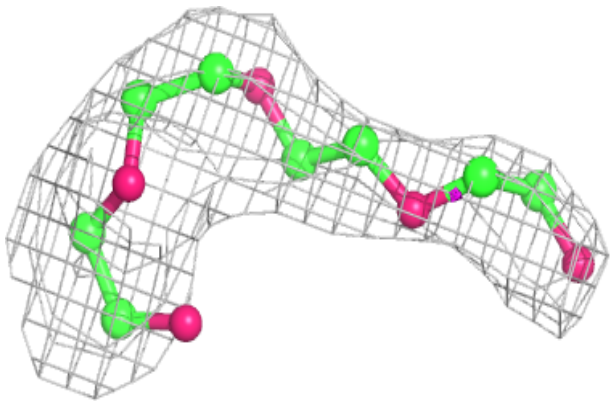


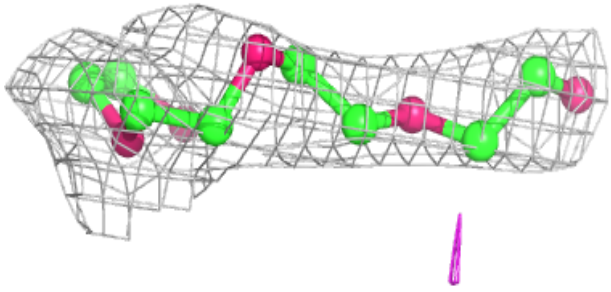


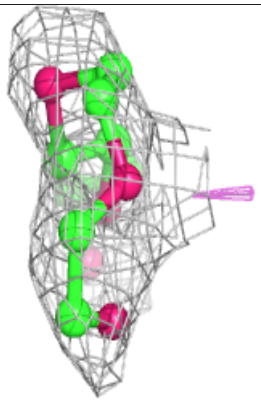


Electron density around PG4 A 326:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

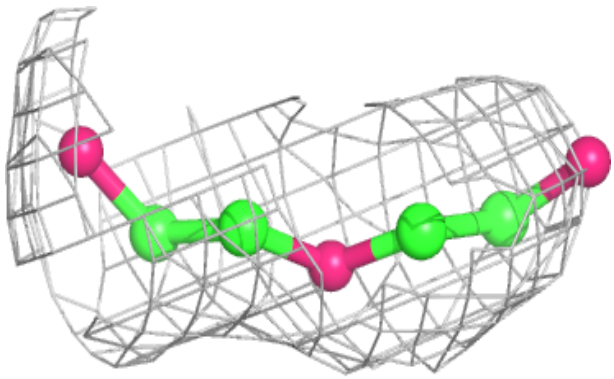


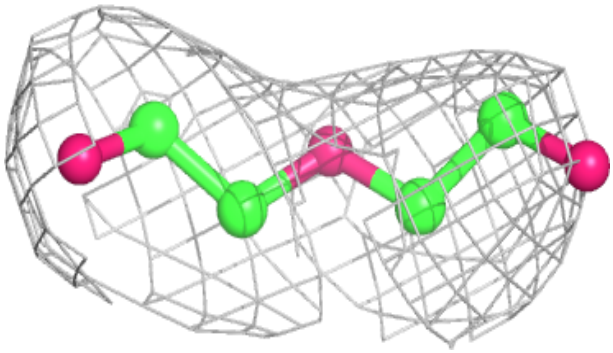


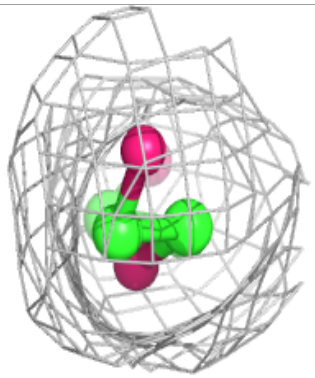


Electron density around PEG B 135:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

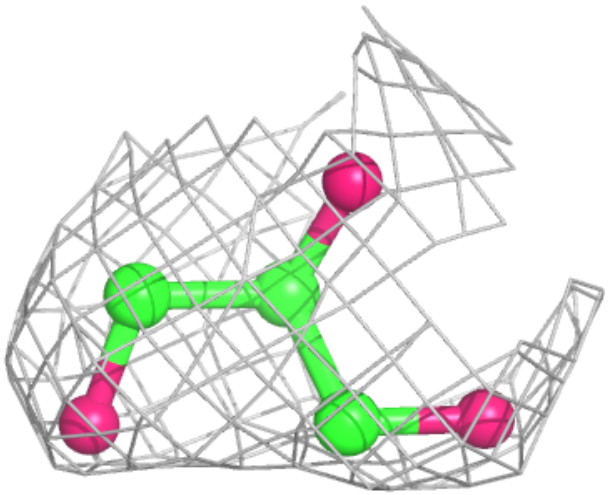


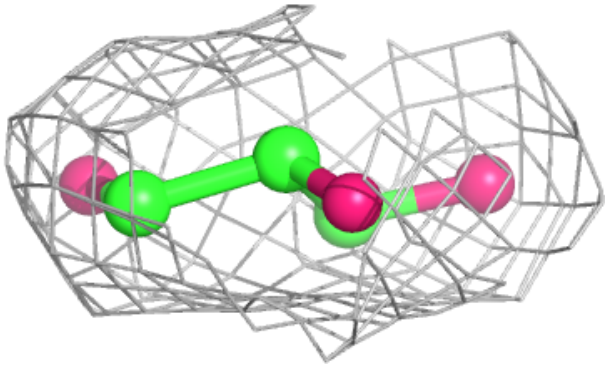


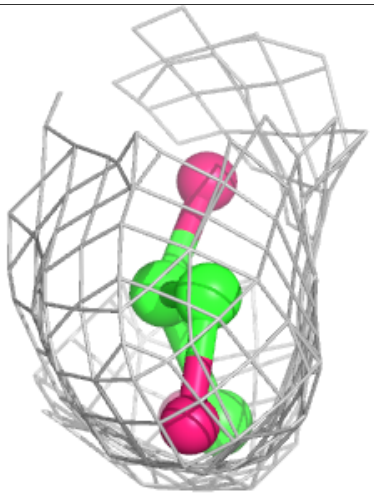


Electron density around GOL D 113:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

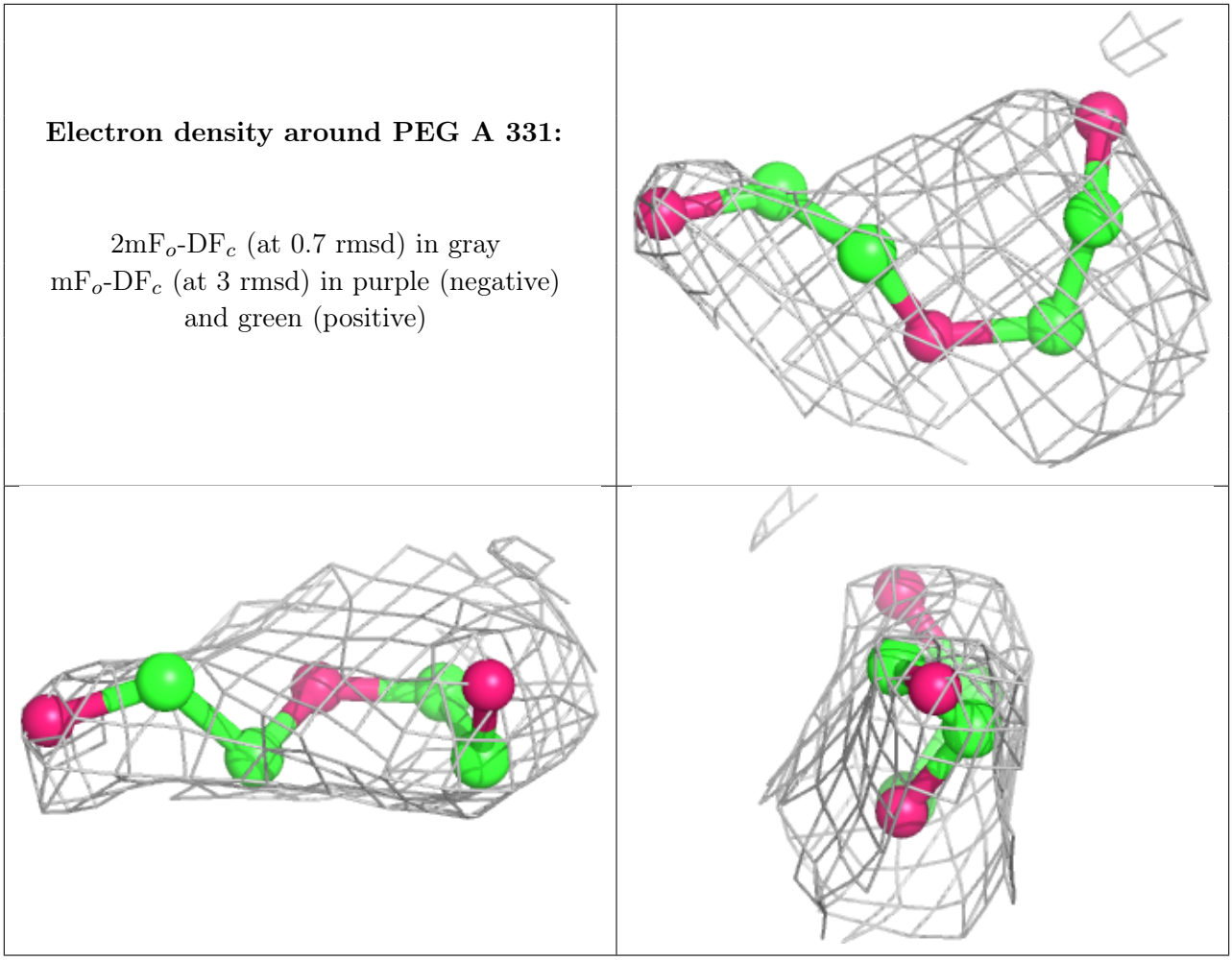






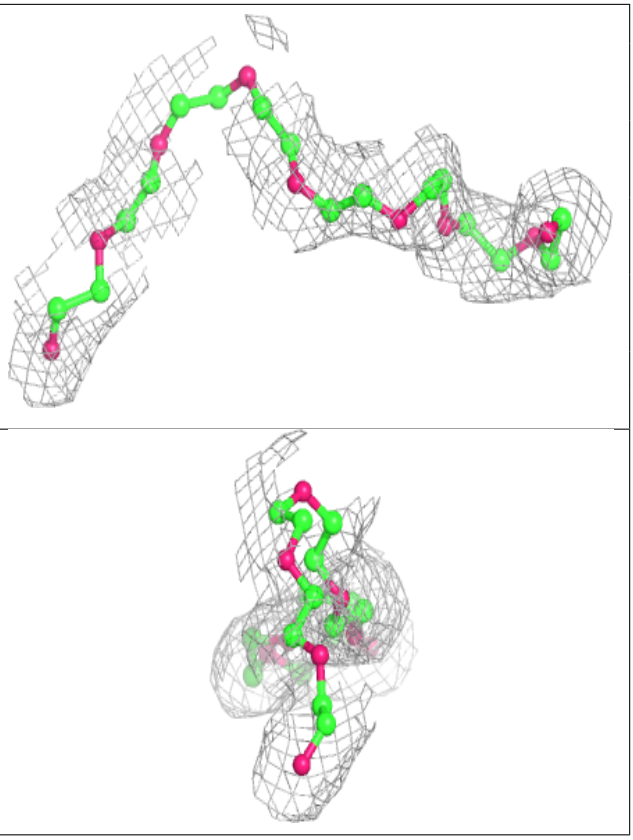
Electron density around PEG A 331:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



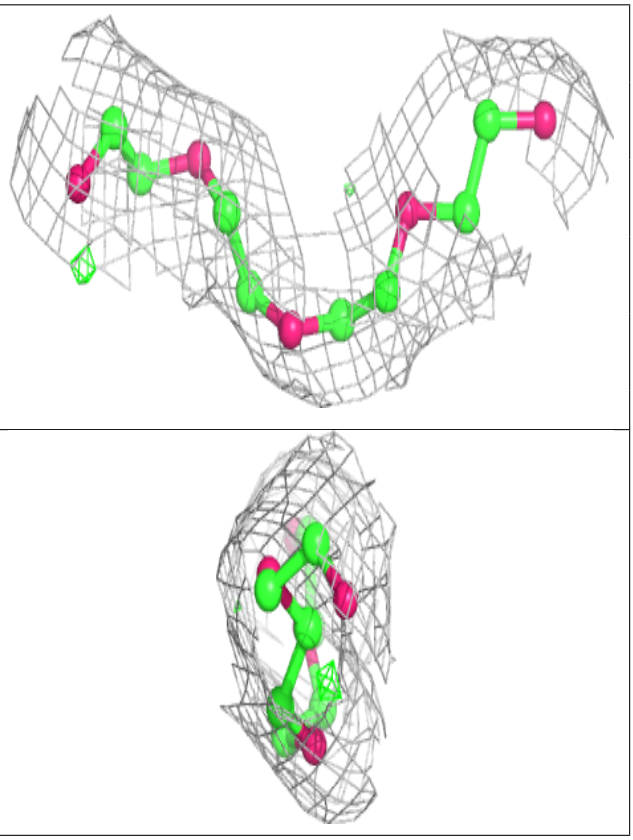
Electron density around PE8 A 343:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



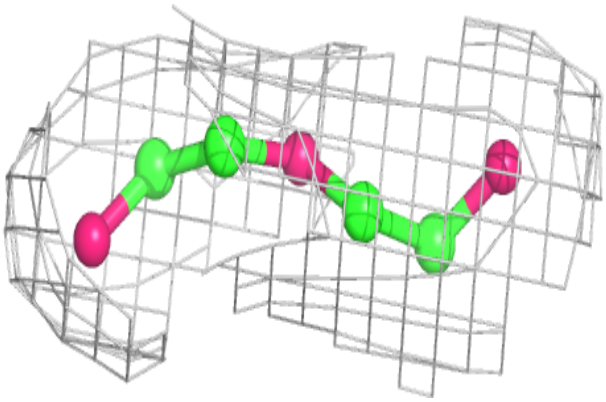
Electron density around PG4 D 120:

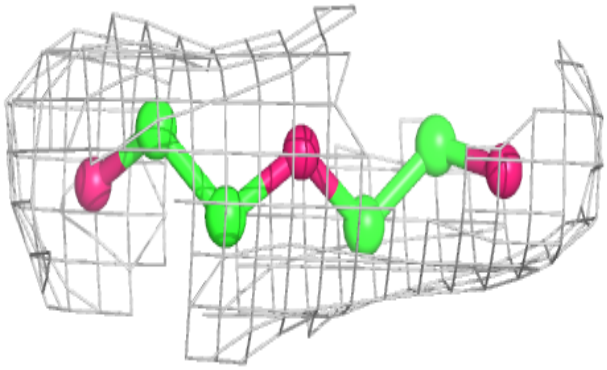
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

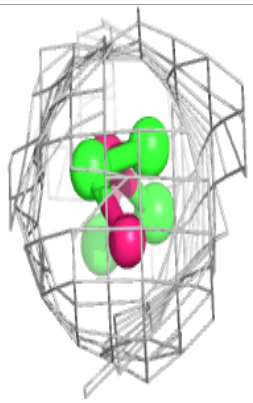


Electron density around PEG D 105:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

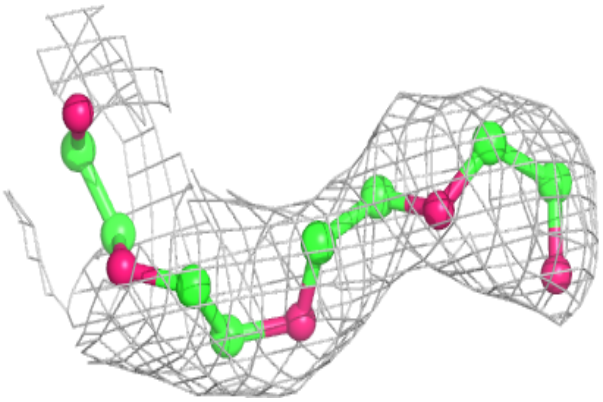


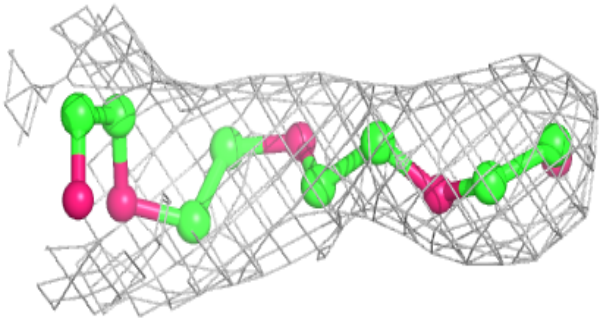


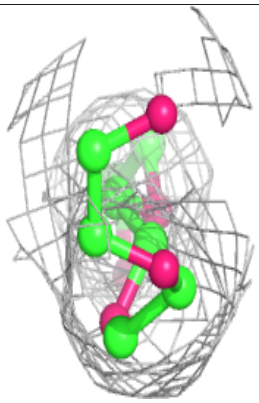


Electron density around PG4 A 325:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

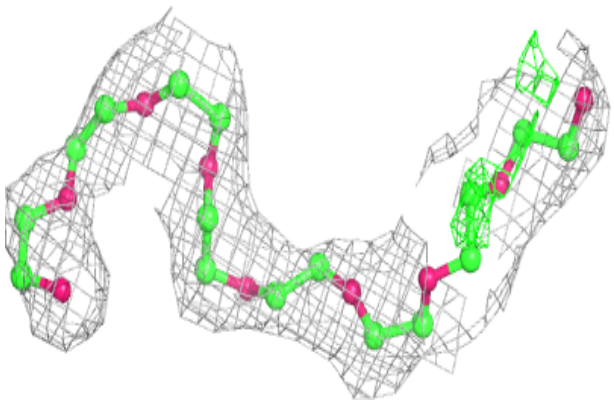


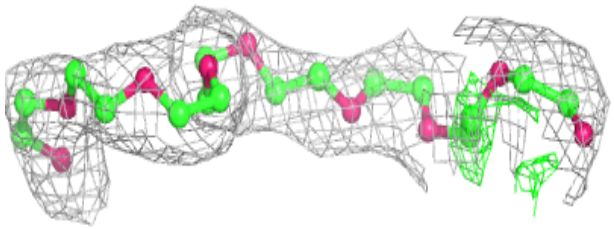


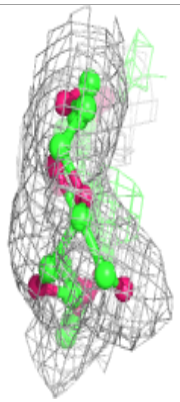


Electron density around PE8 F 106:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

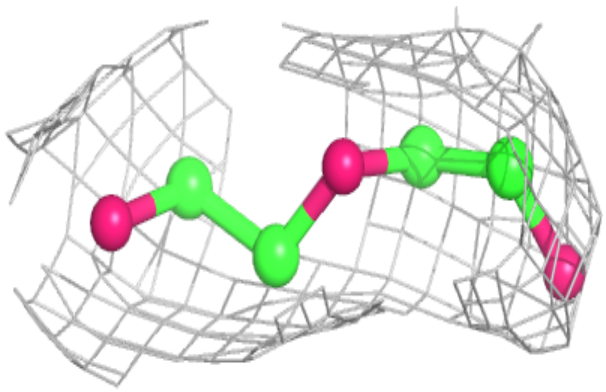


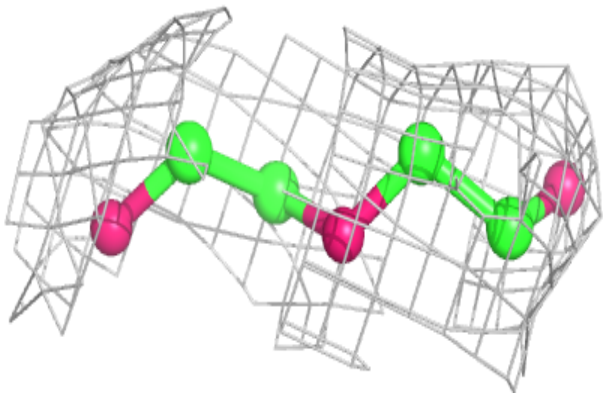


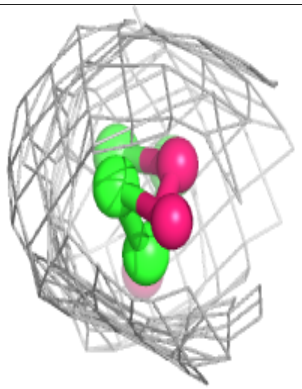


Electron density around PEG A 337:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

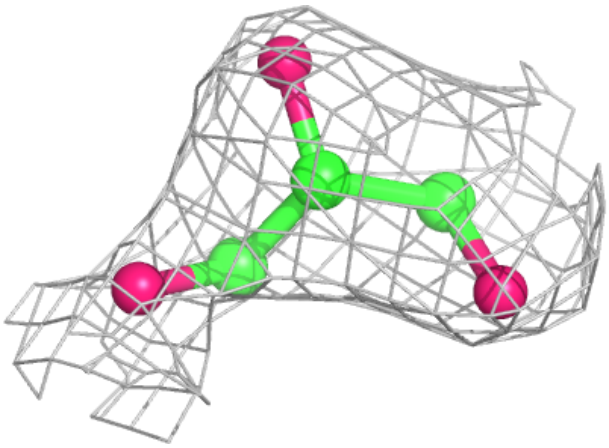


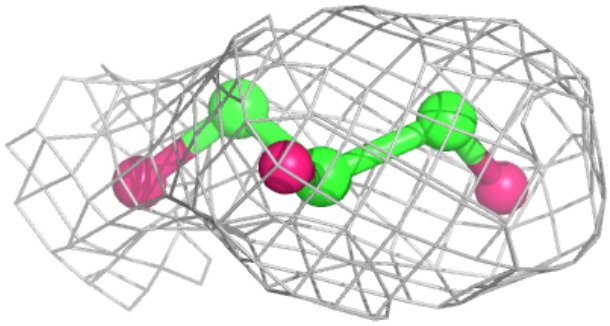


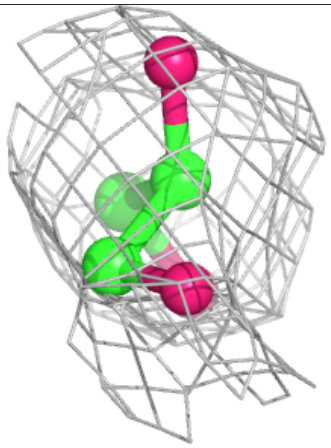


Electron density around GOL E 104:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

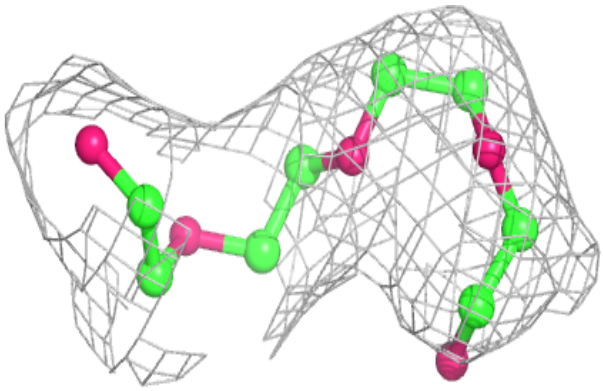


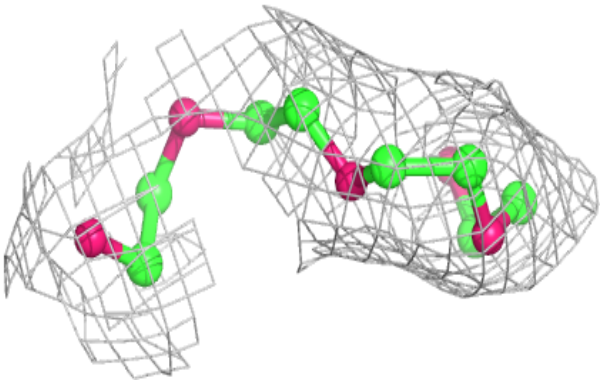


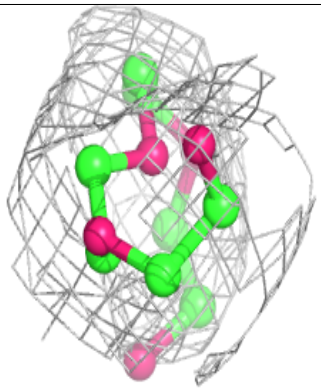


Electron density around PG4 A 324:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

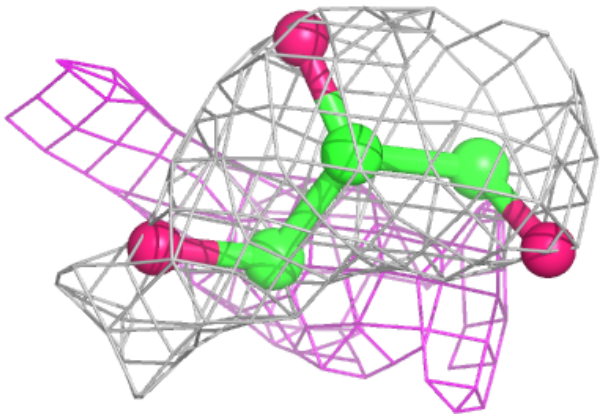


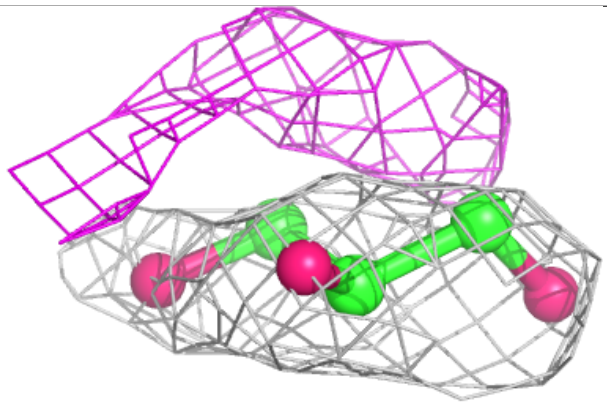


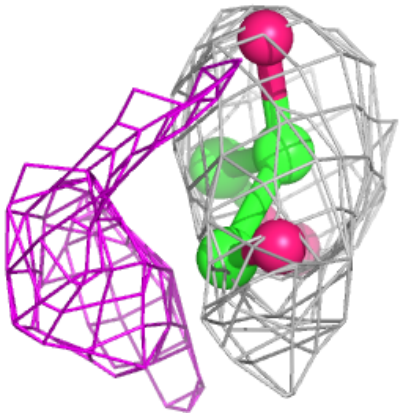


Electron density around GOL F 103:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

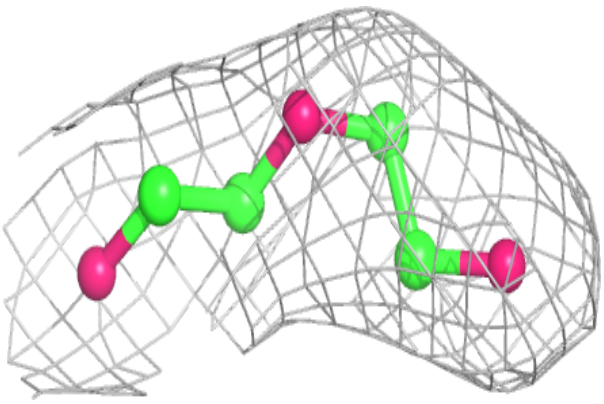


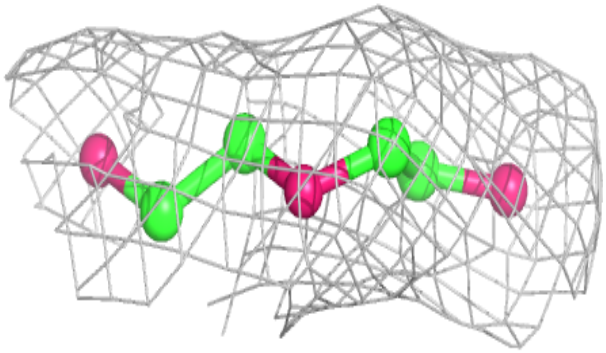


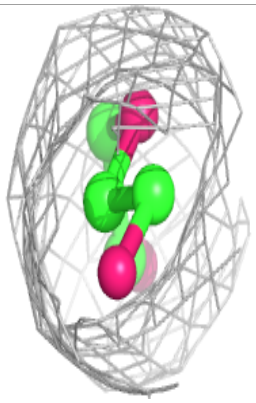


Electron density around PEG C 328:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

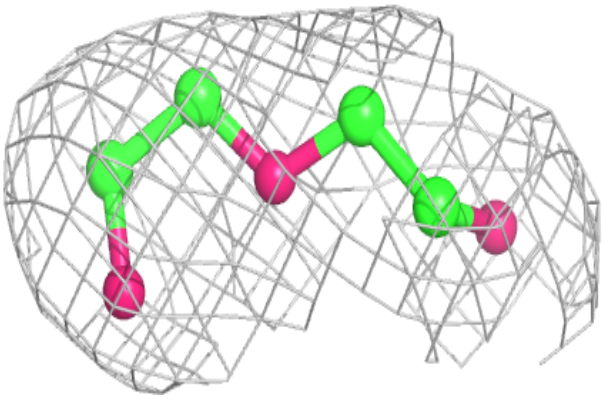


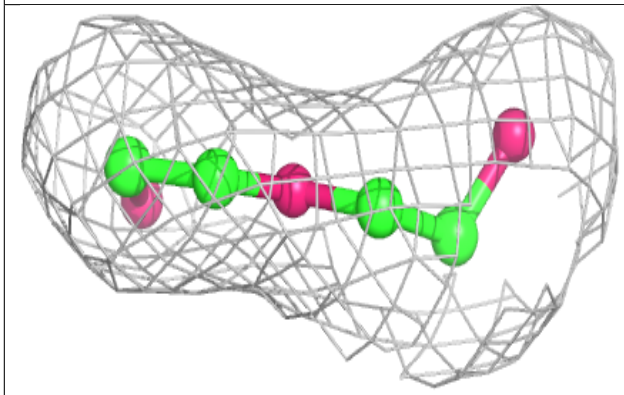


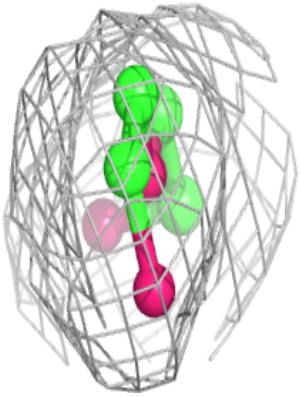


Electron density around PEG B 128:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

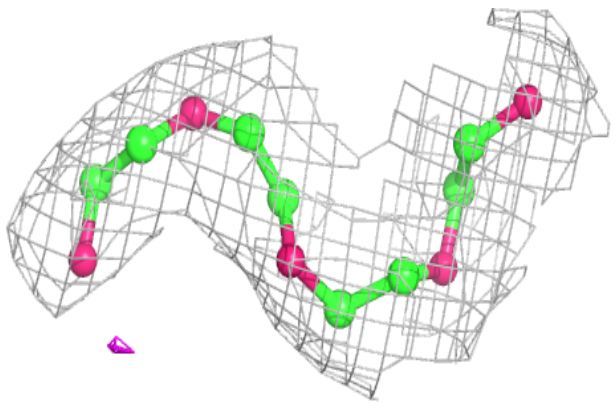


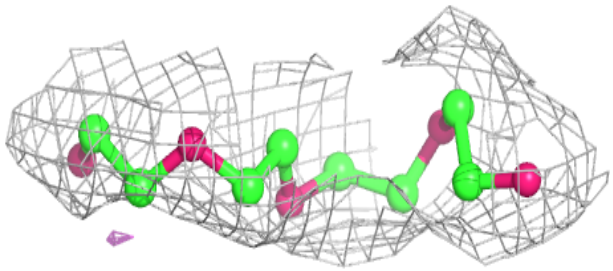


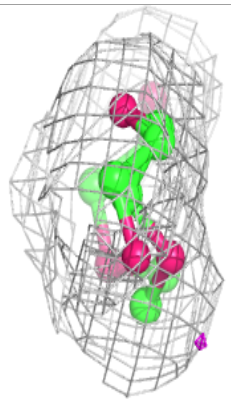


Electron density around PG4 D 118:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

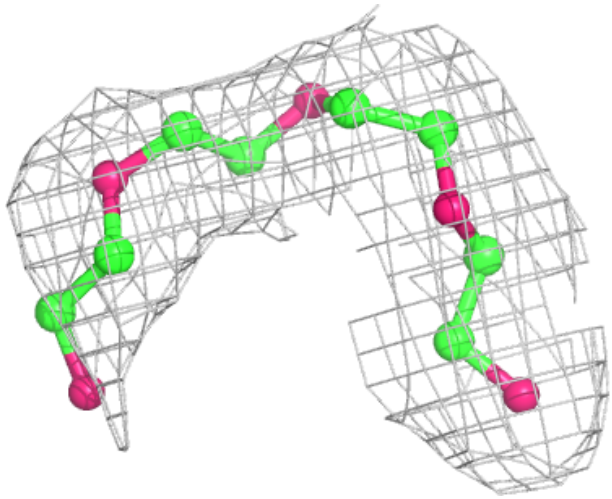


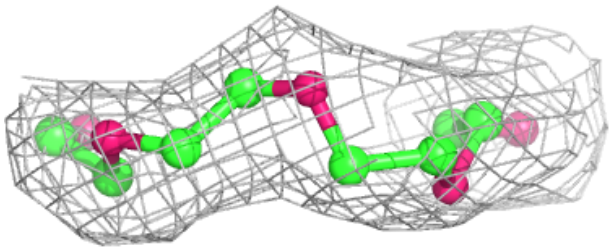


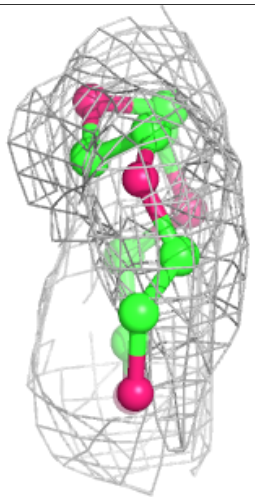


Electron density around PG4 A 321:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

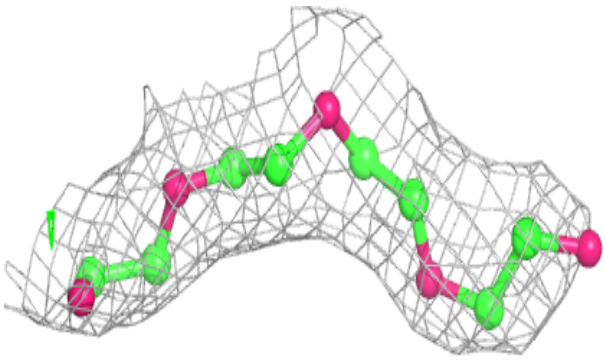


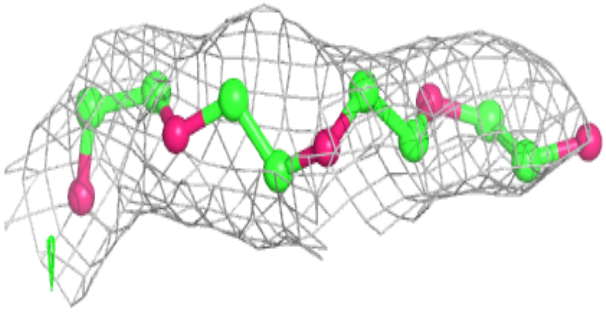


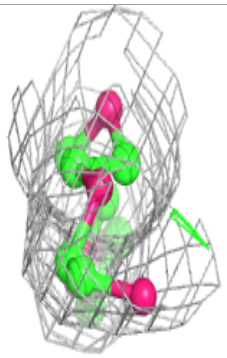


Electron density around PG4 B 118:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

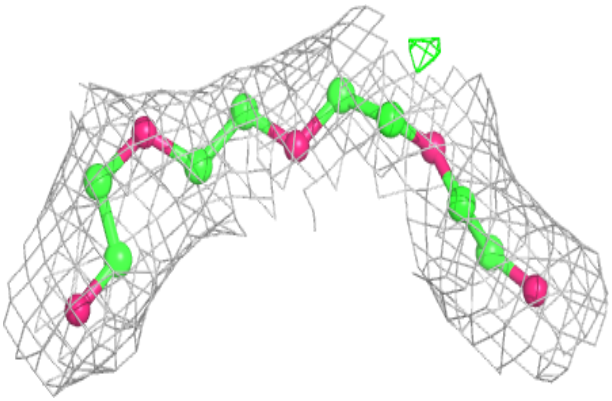


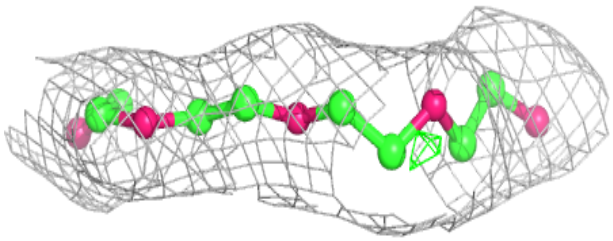


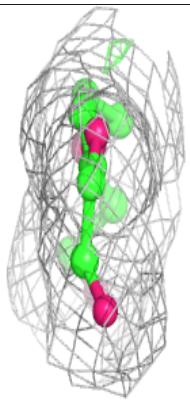


Electron density around PG4 F 105:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

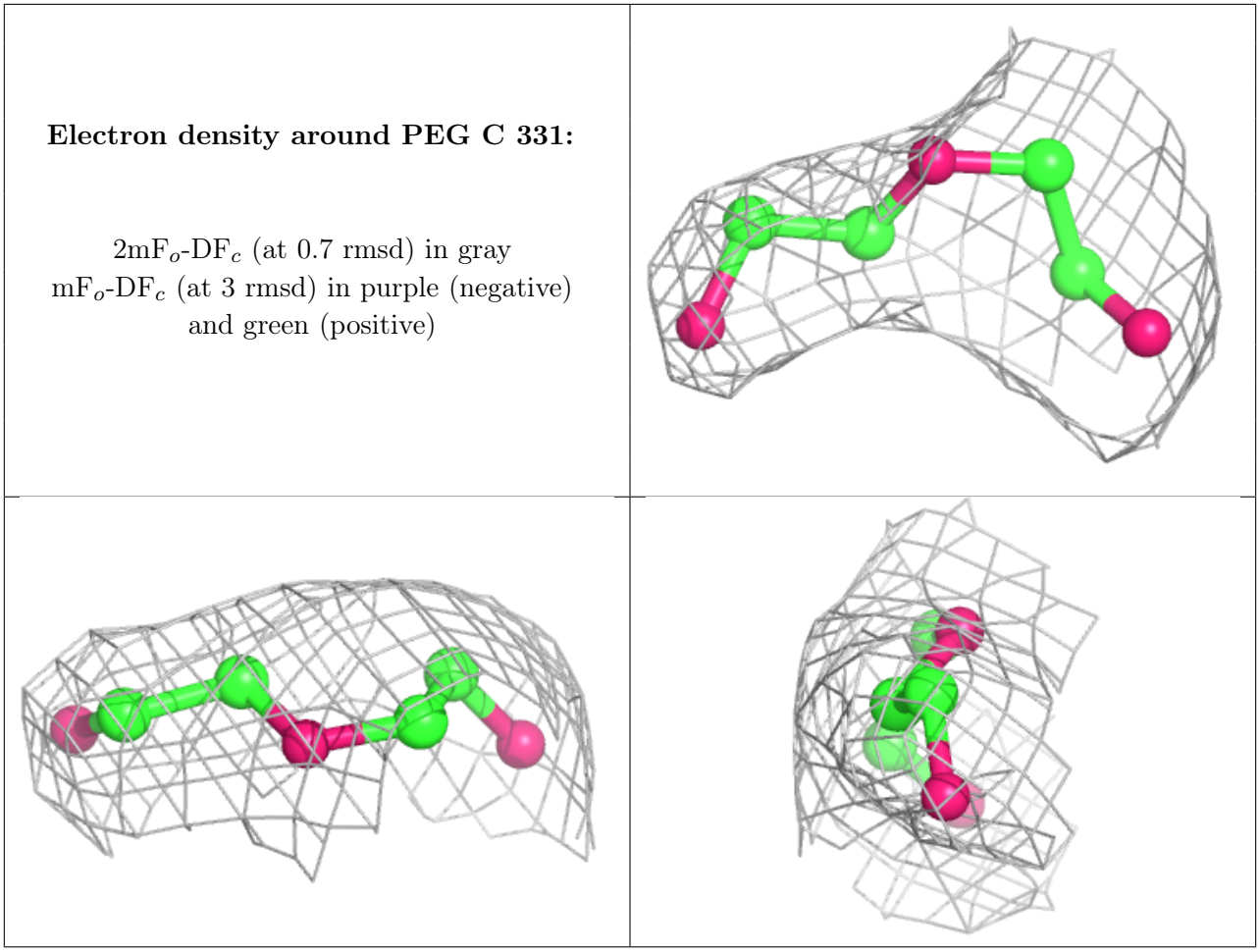






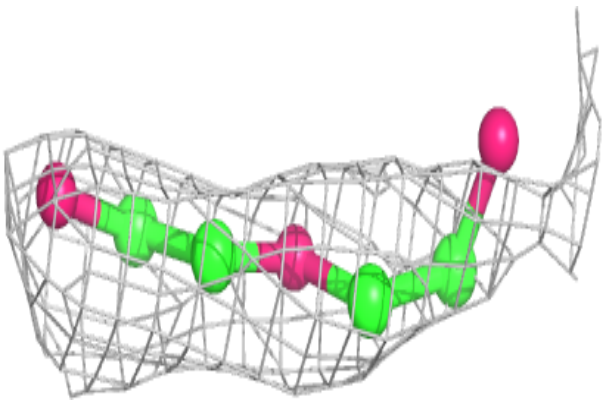
Electron density around PEG C 331:

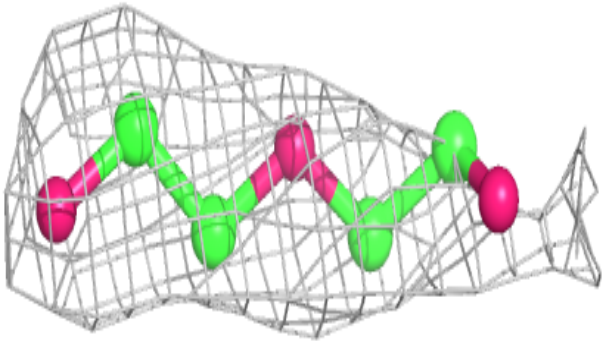
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

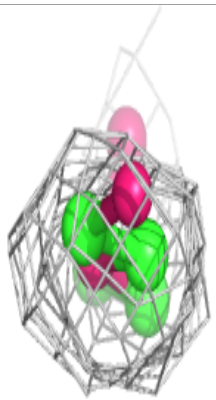


Electron density around PEG A 329:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

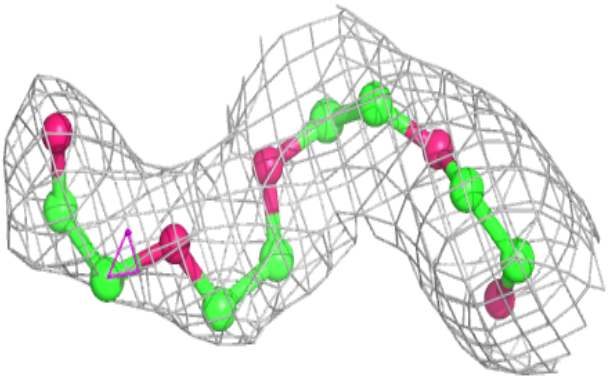


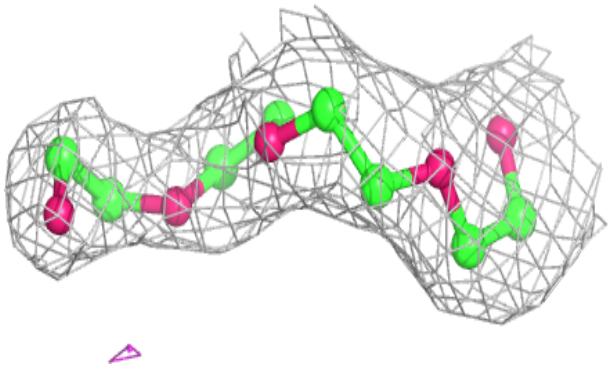


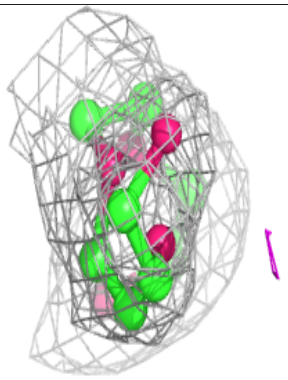


Electron density around PG4 A 368:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

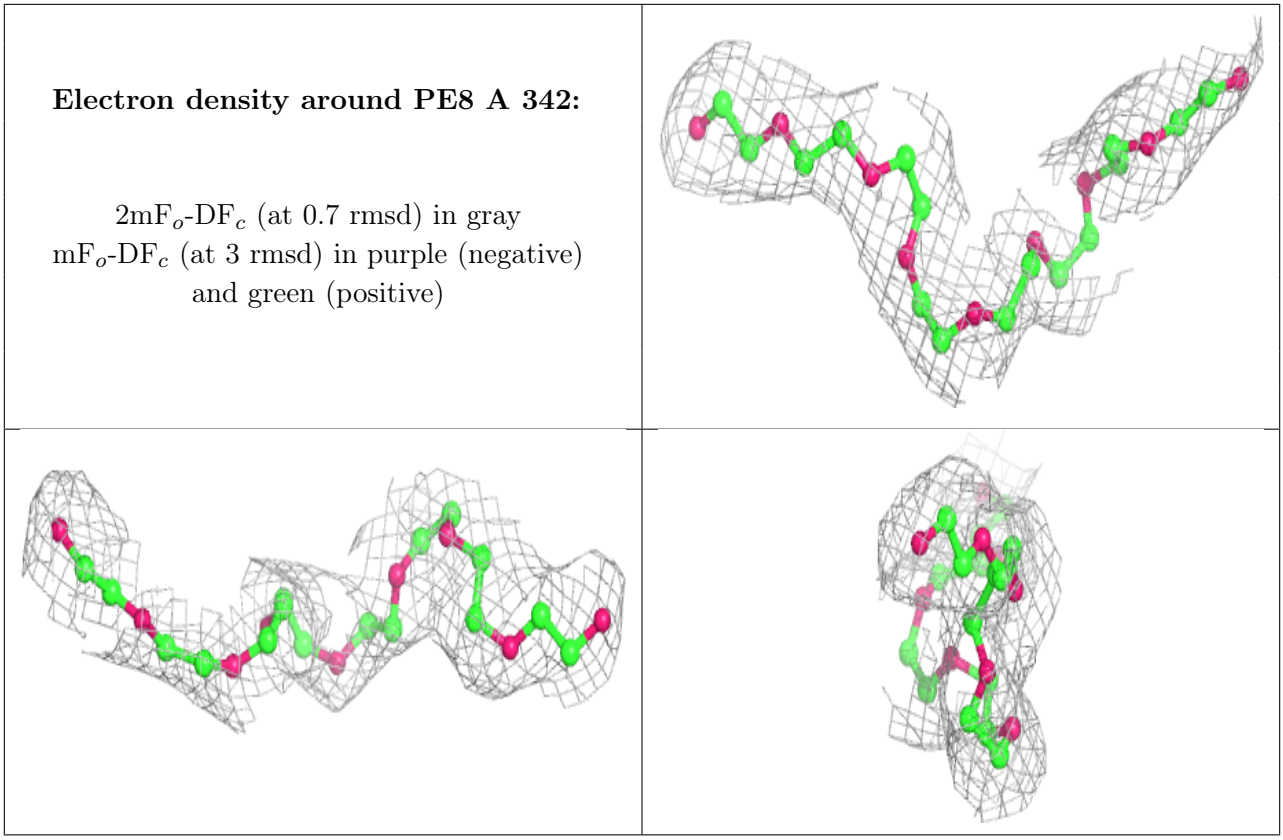






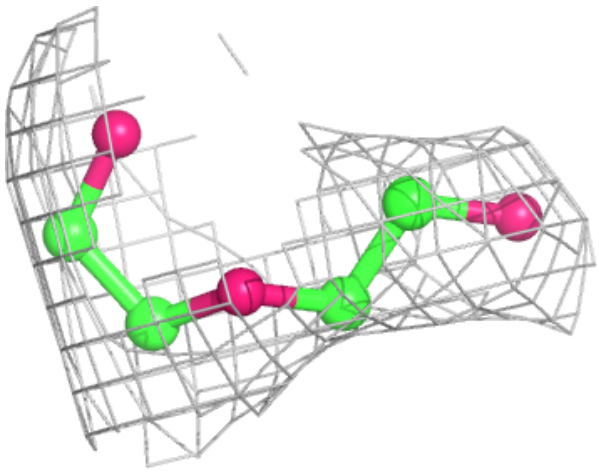
Electron density around PE8 A 342:

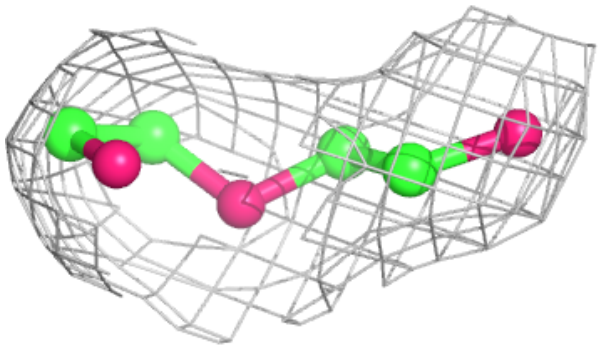
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

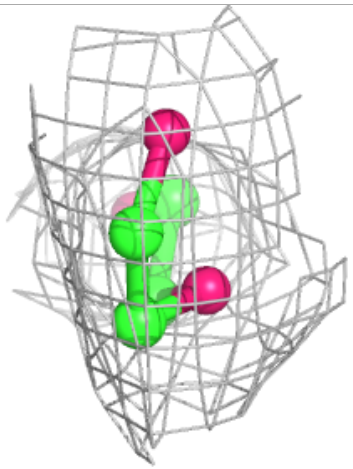


Electron density around PEG A 333:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

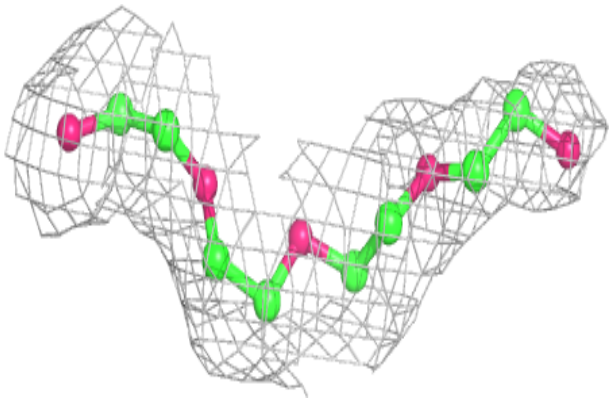


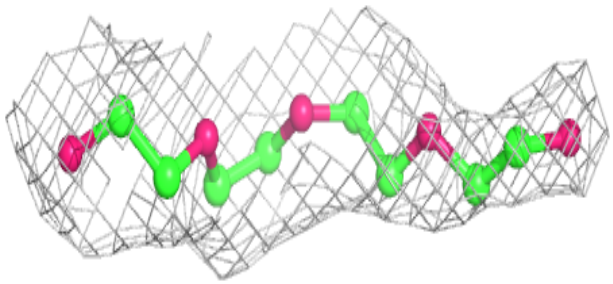


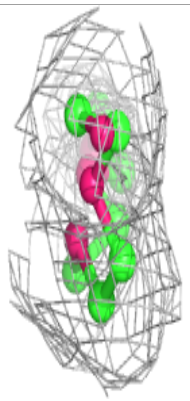


Electron density around PG4 D 103:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

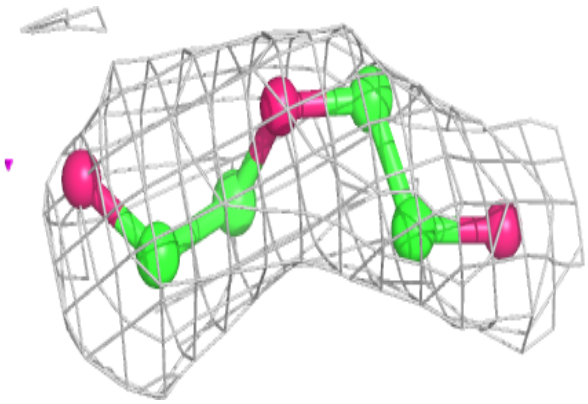


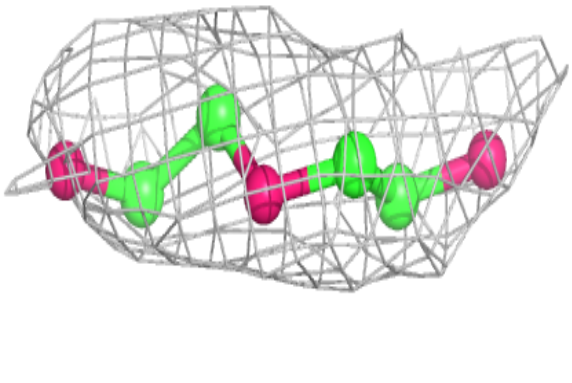


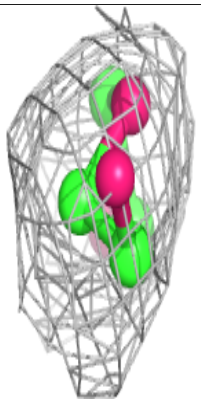


Electron density around PEG A 341:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

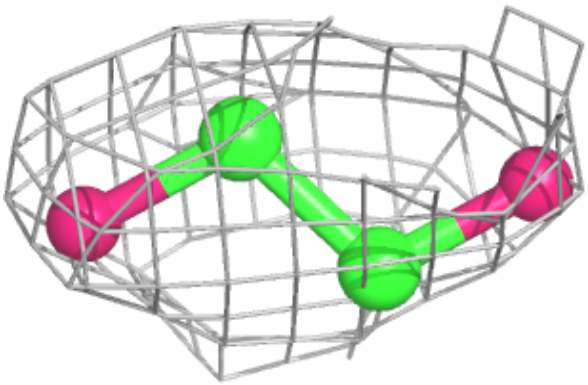


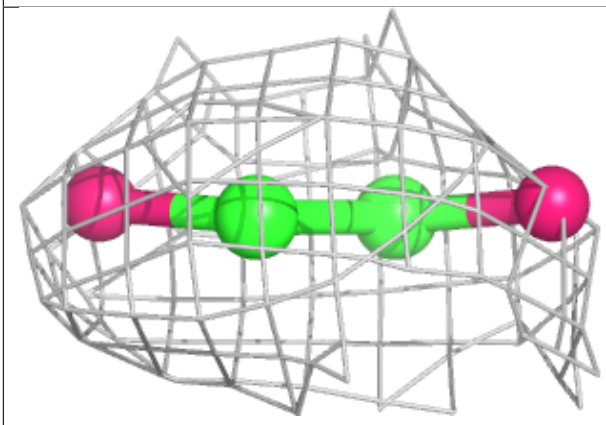


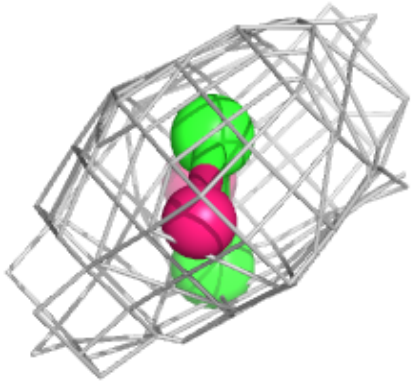


Electron density around EDO D 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

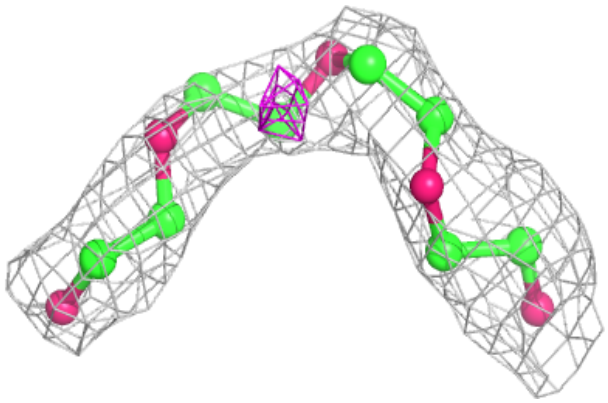


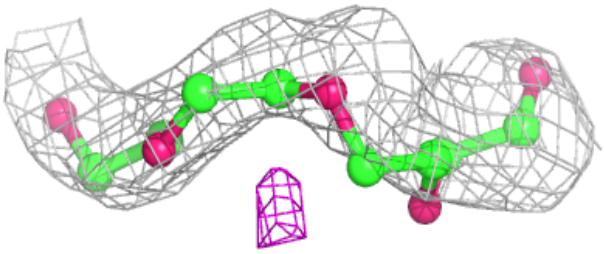


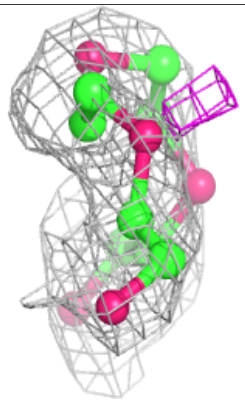


Electron density around PG4 C 325:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

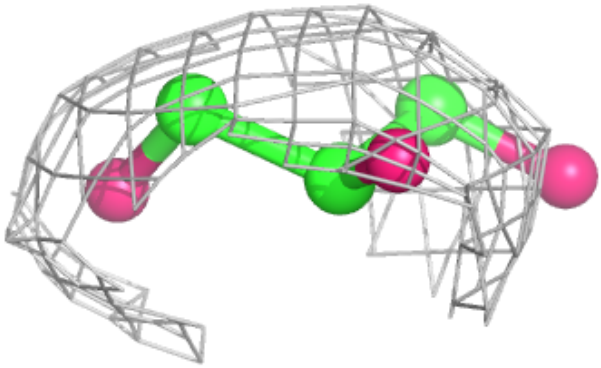


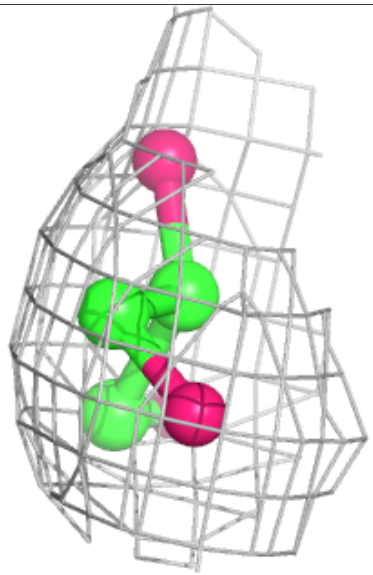




Electron density around GOL E 103:

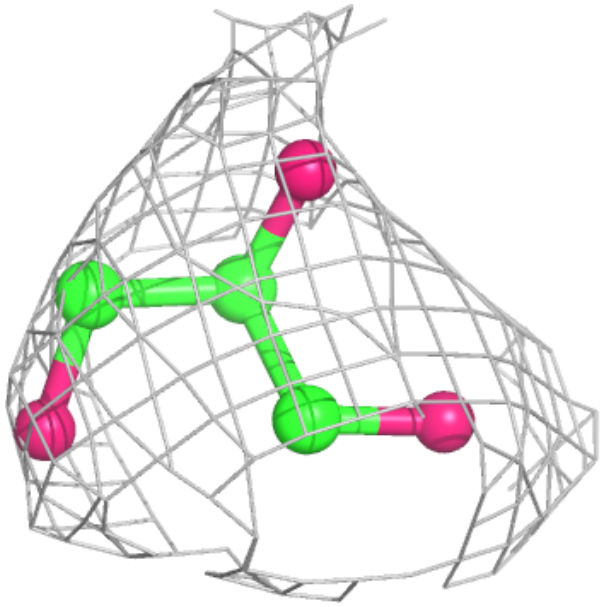
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

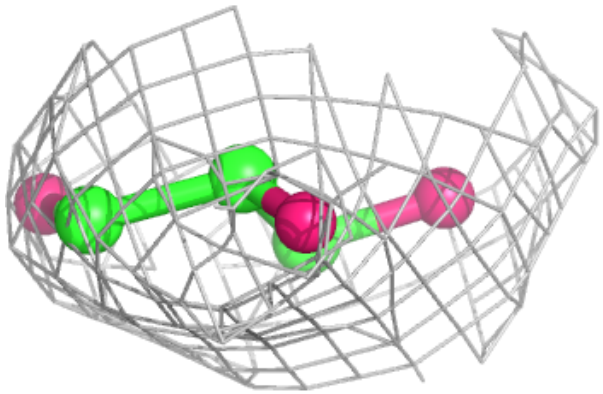


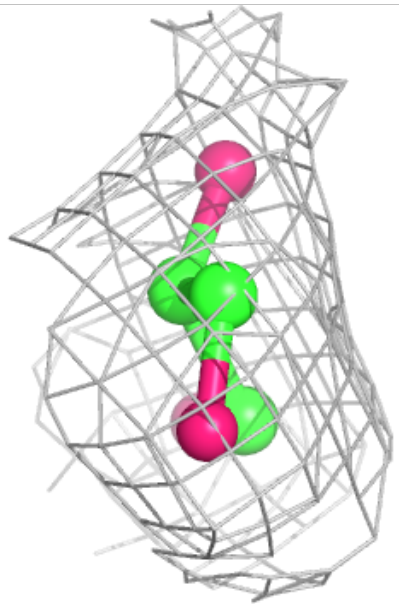


Electron density around GOL B 105:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

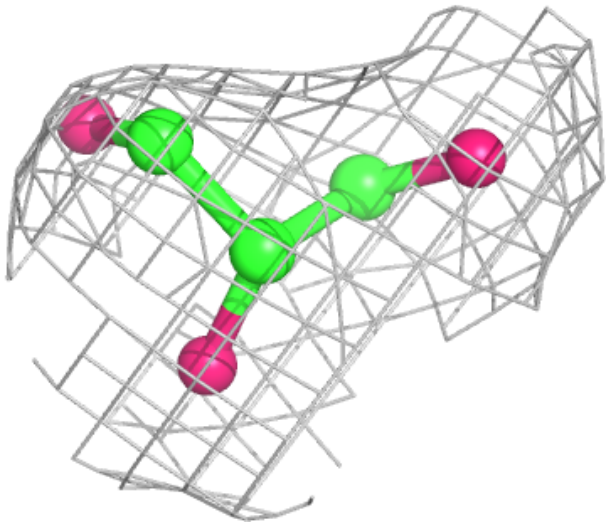


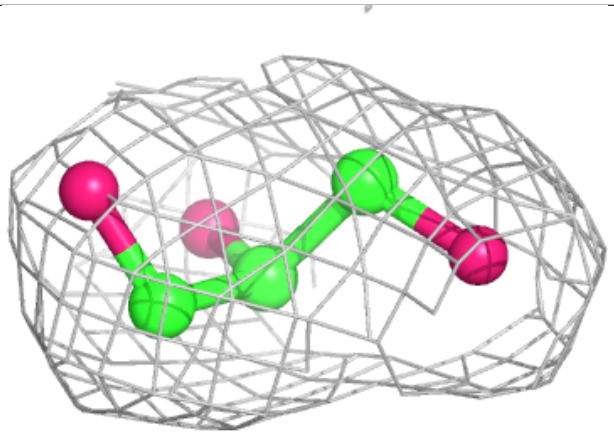


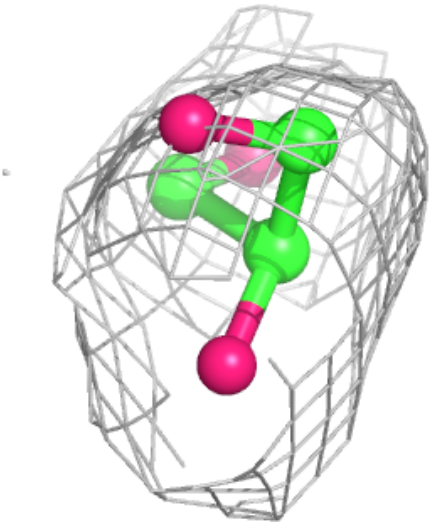


Electron density around GOL C 344:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

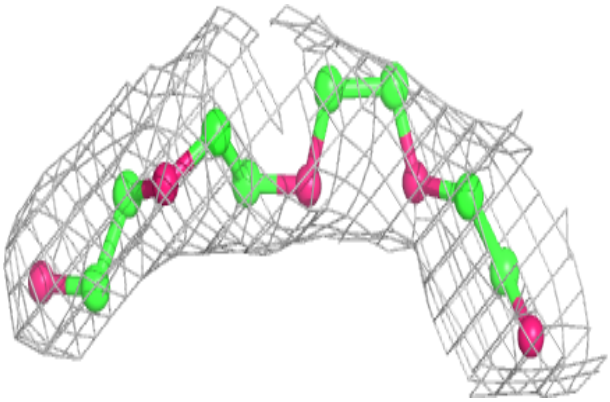


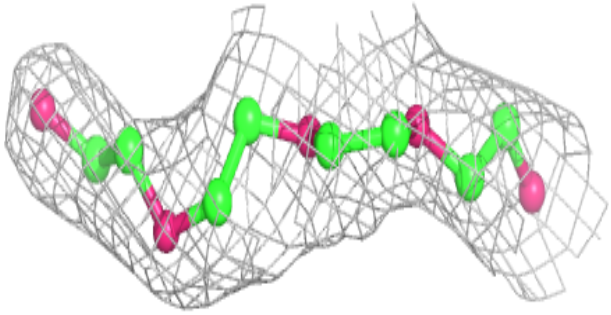


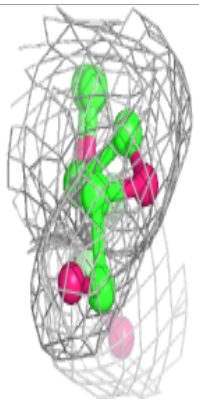


Electron density around PG4 C 320:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

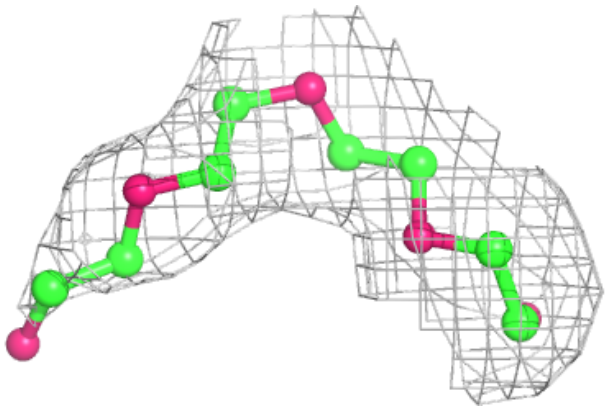


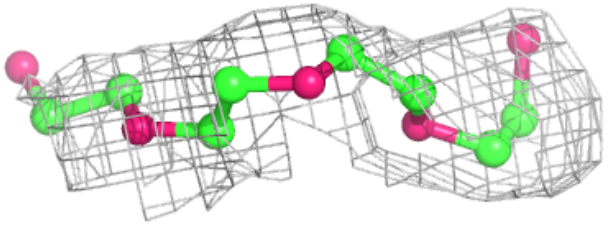


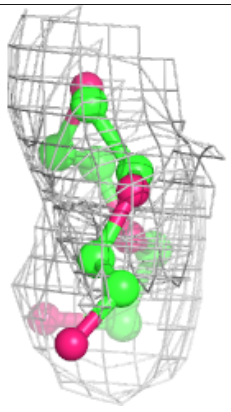


Electron density around PG4 C 324:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

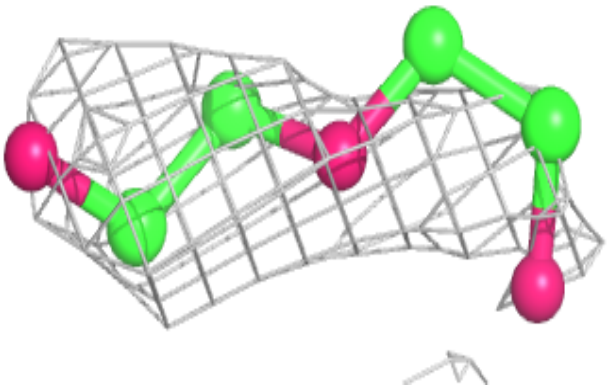


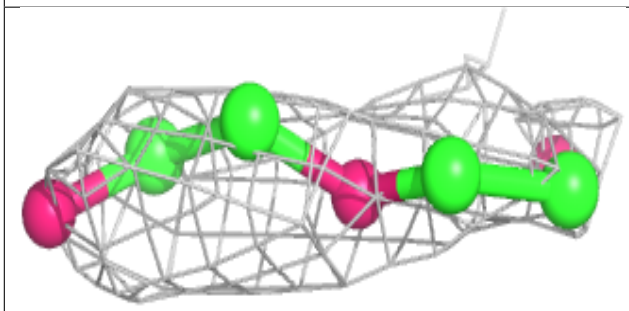


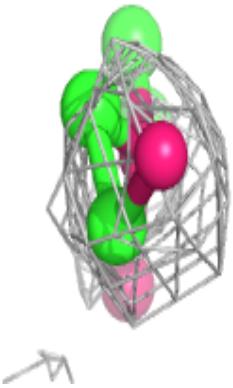


Electron density around PEG C 333:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

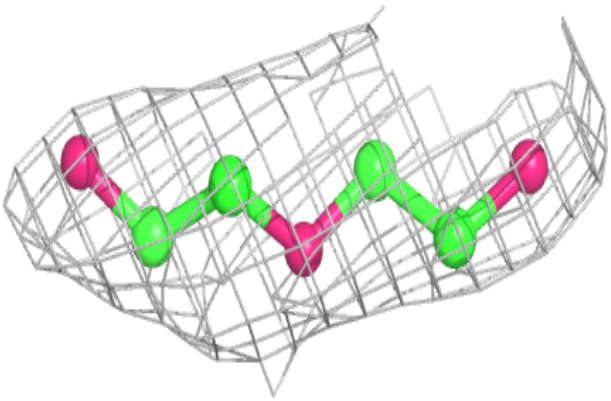


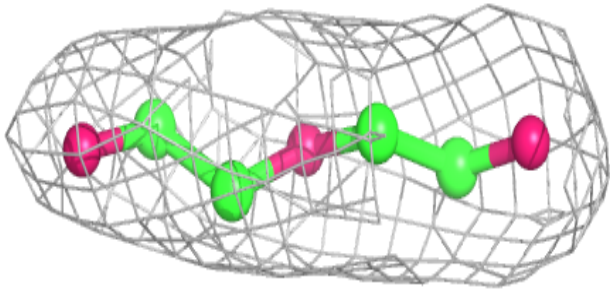


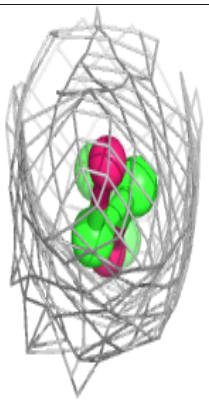


Electron density around PEG D 127:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

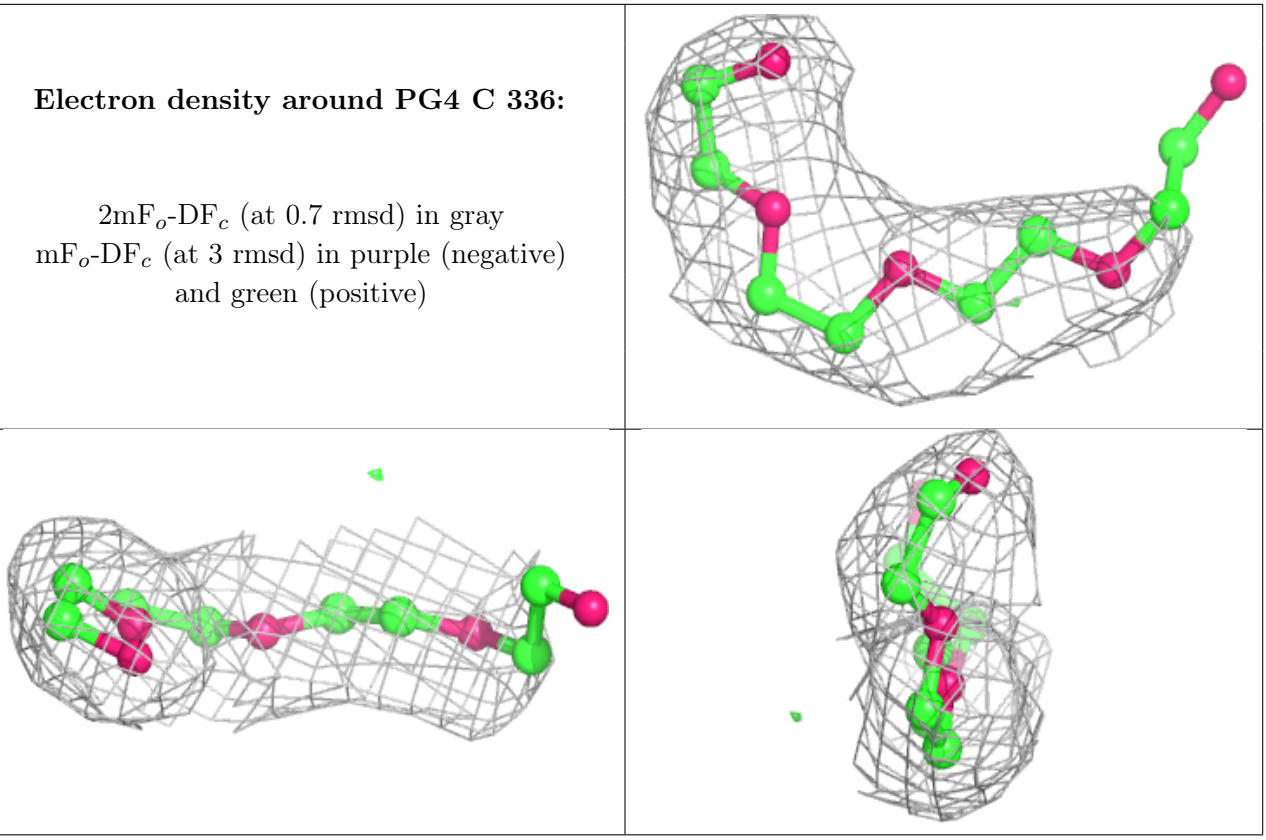






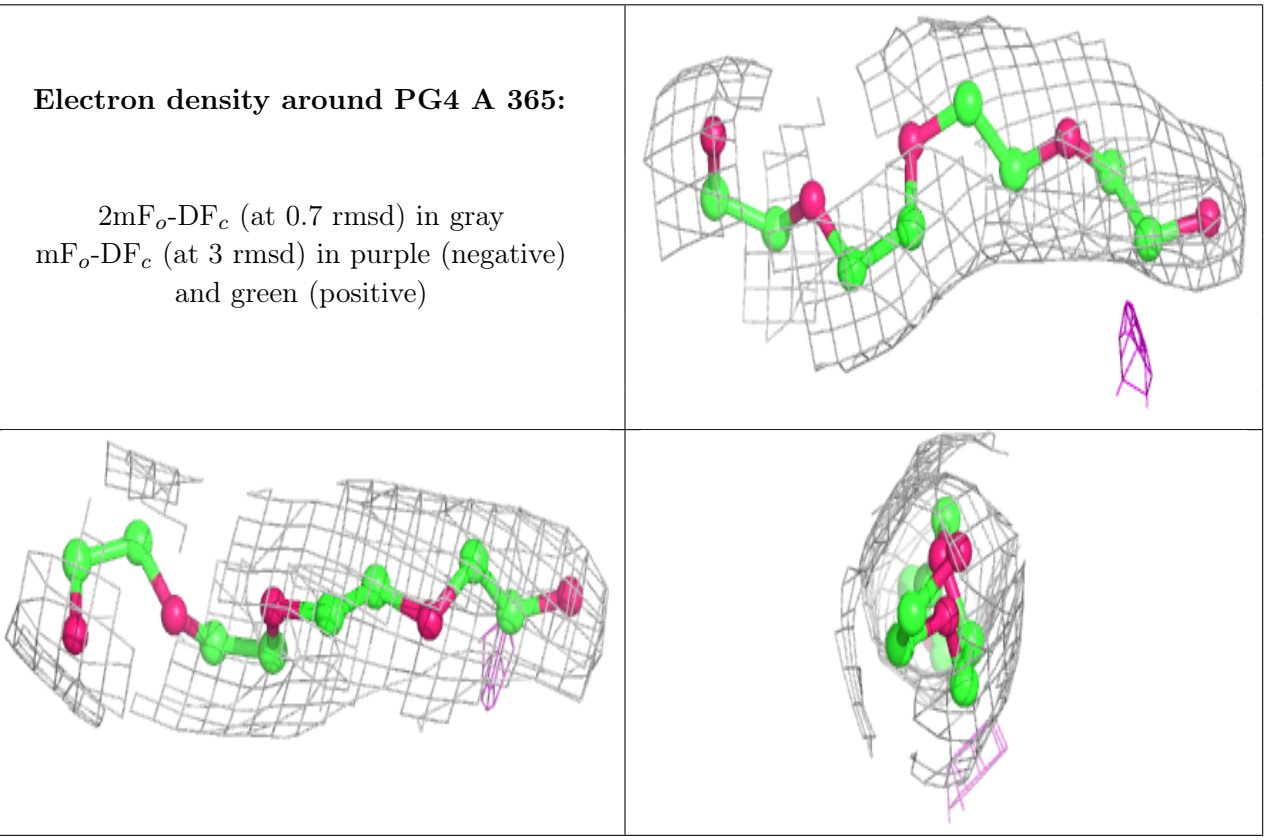
Electron density around PG4 C 336:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



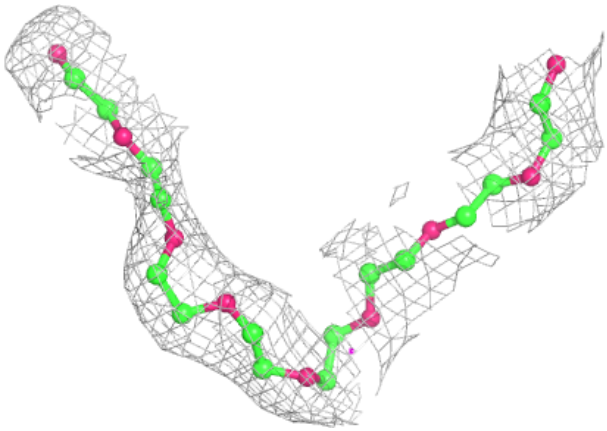
Electron density around PG4 A 365:

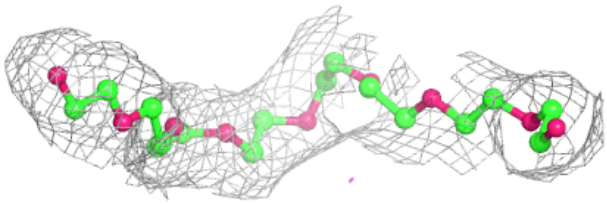
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

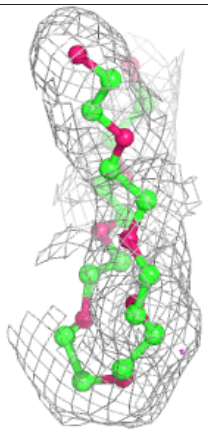


Electron density around PE8 B 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

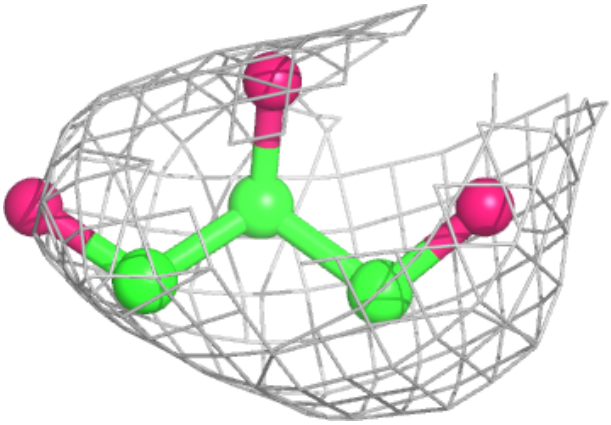


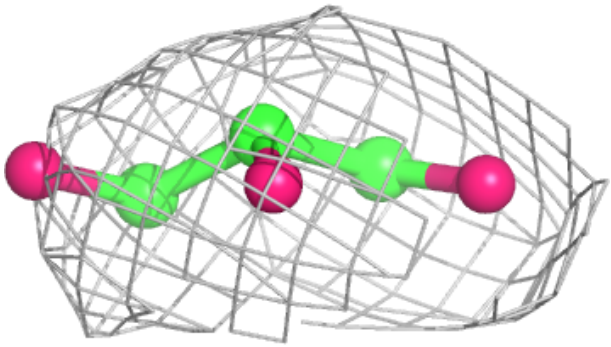


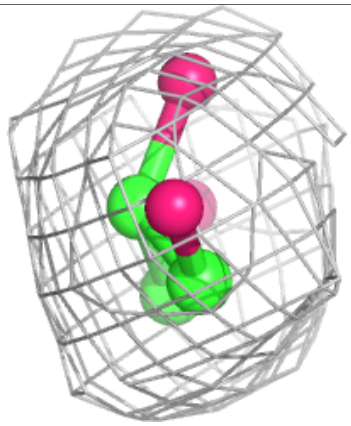


Electron density around GOL B 140:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

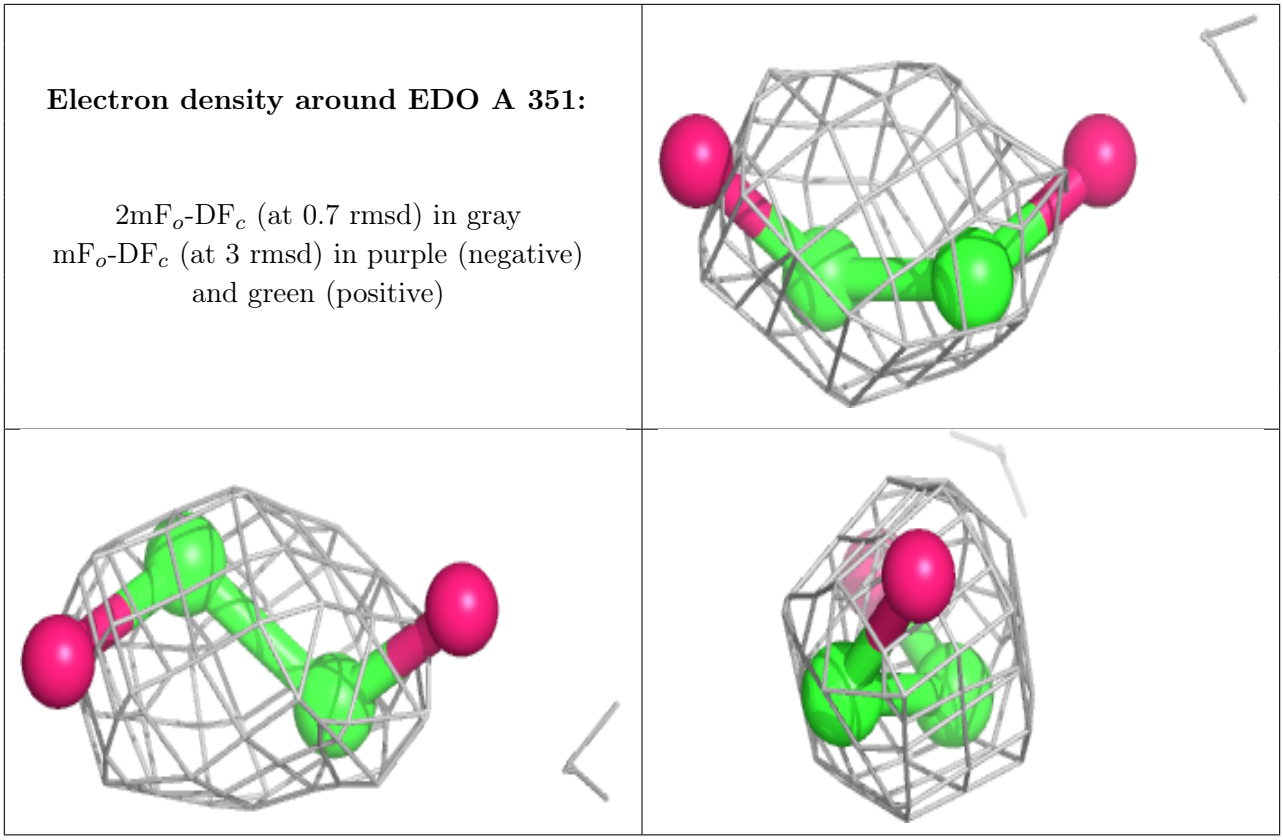






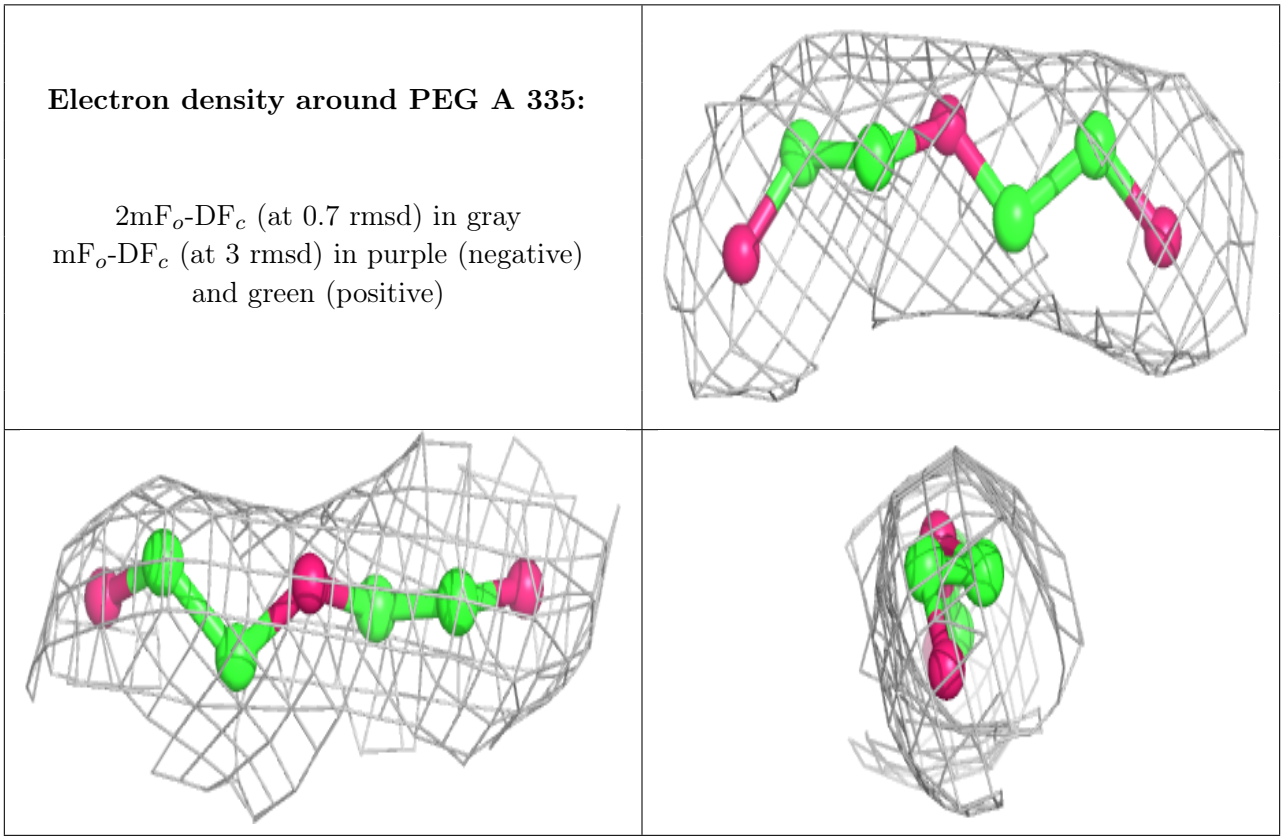
Electron density around EDO A 351:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



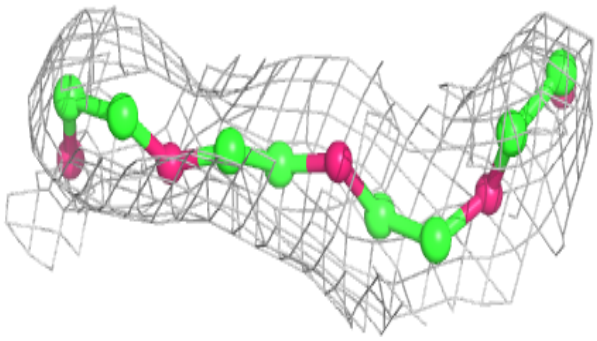
Electron density around PEG A 335:

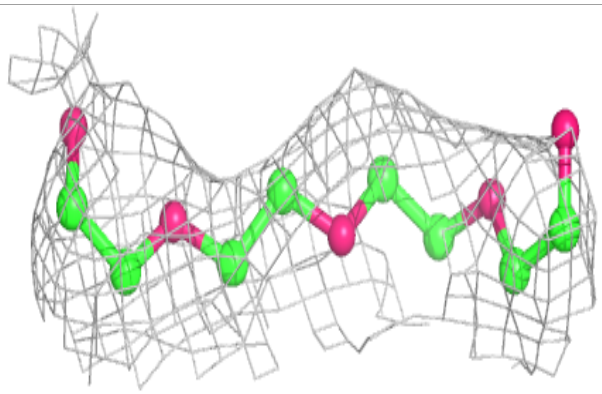
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

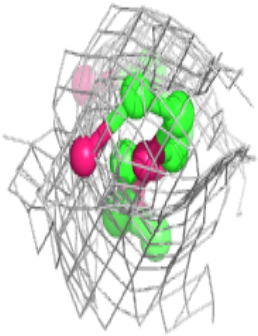


Electron density around PG4 C 322:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

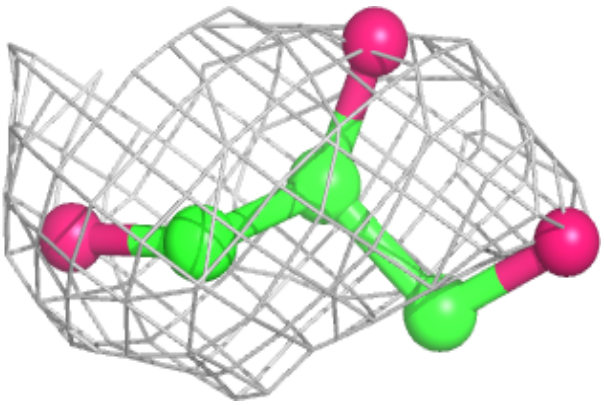


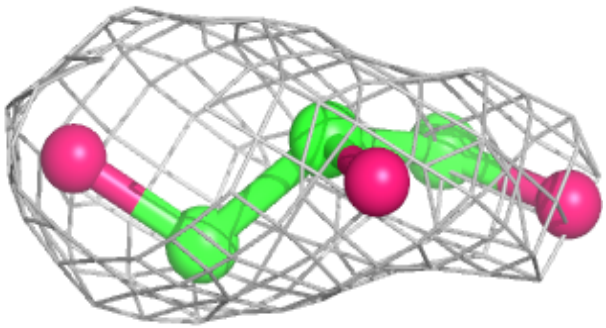


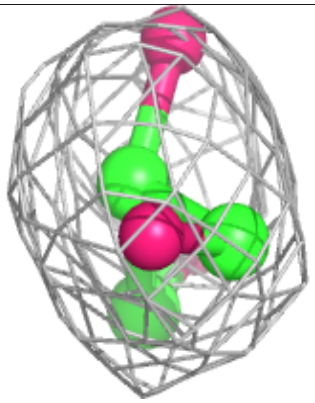


Electron density around GOL A 345:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

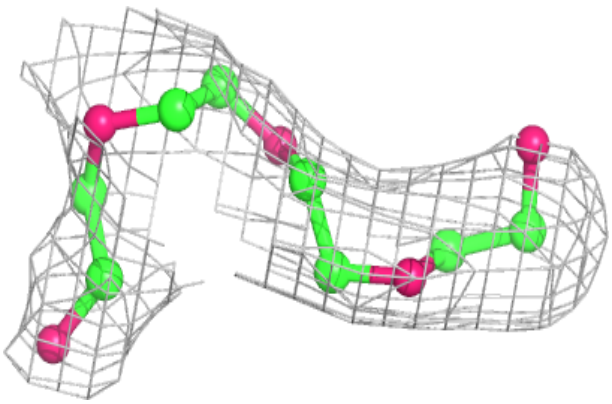


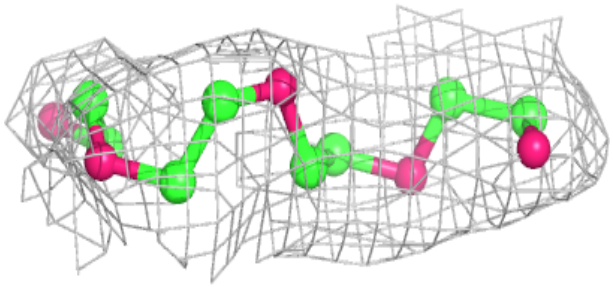


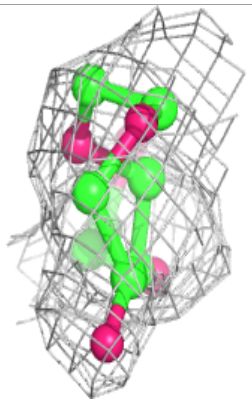


Electron density around PG4 A 323:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

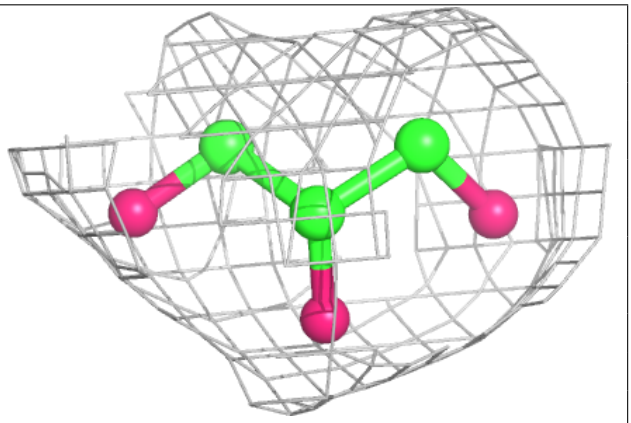


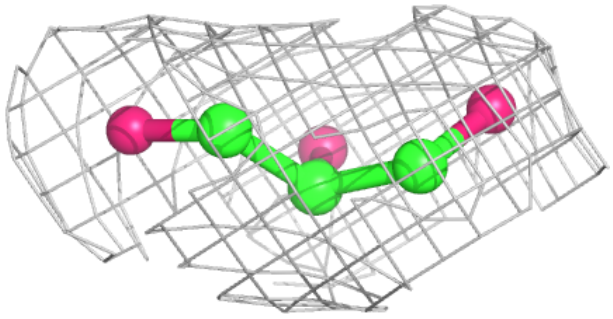


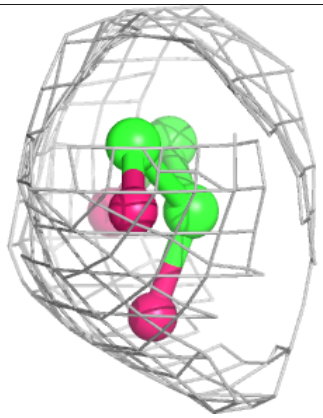


Electron density around GOL C 306:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

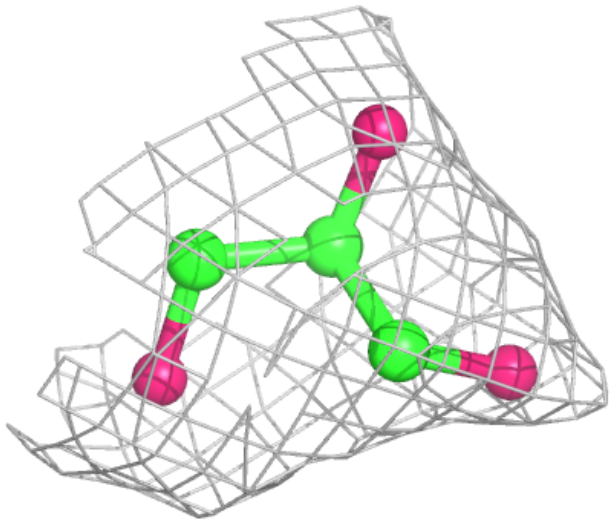


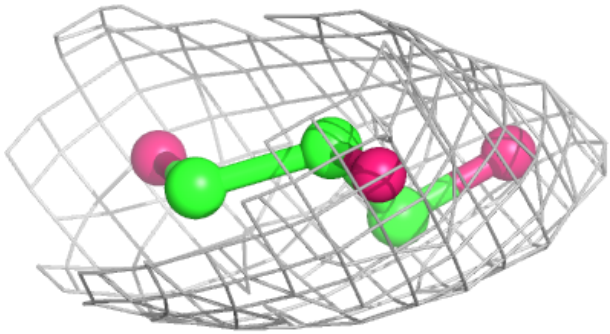


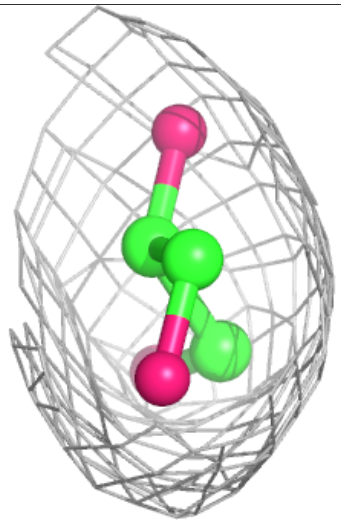


Electron density around GOL B 107:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

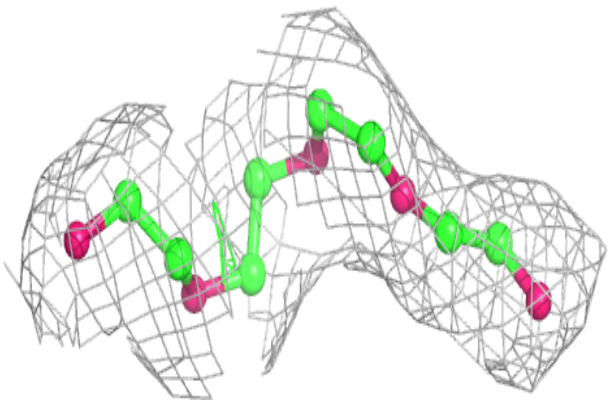


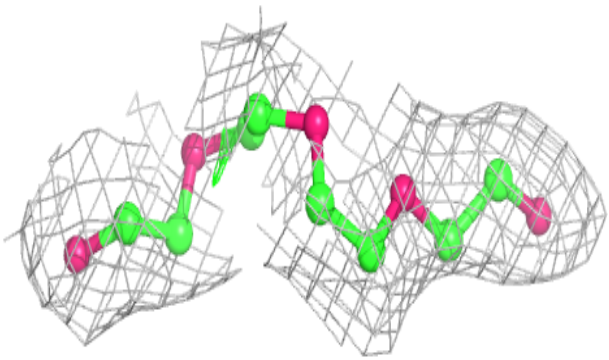


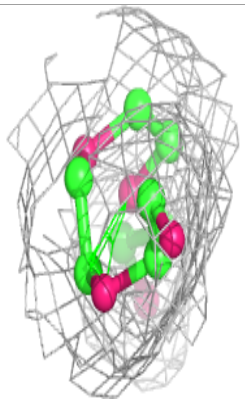


Electron density around PG4 A 352:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

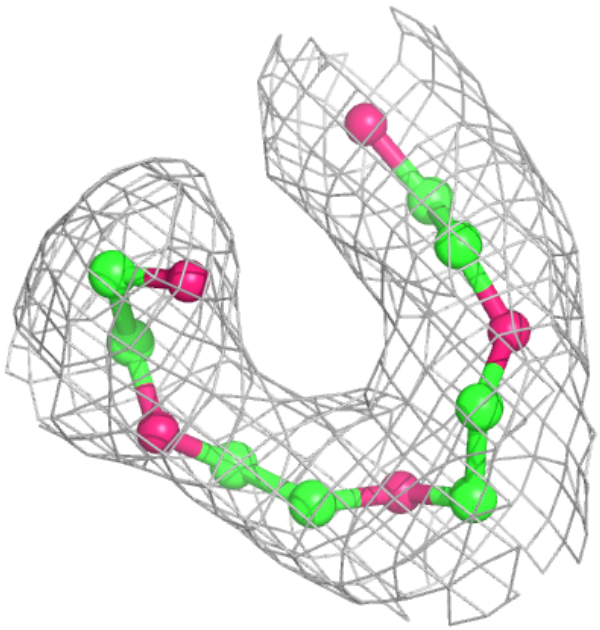


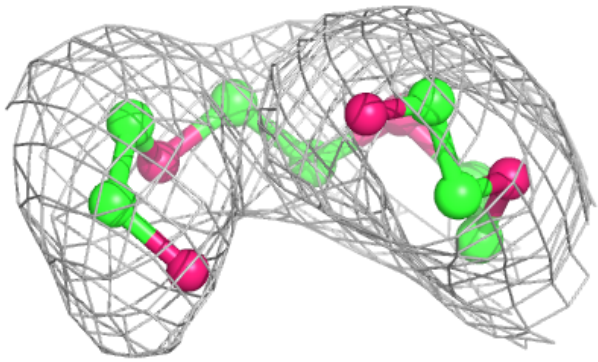


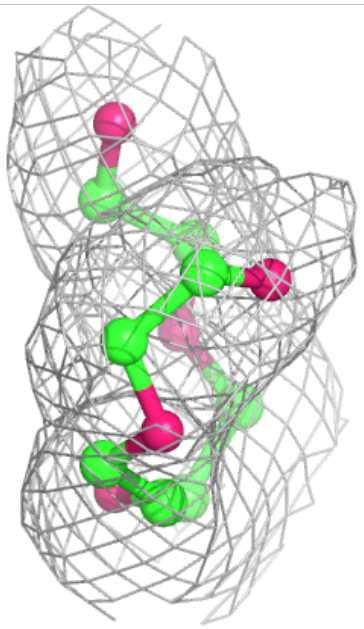


Electron density around PG4 A 366:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

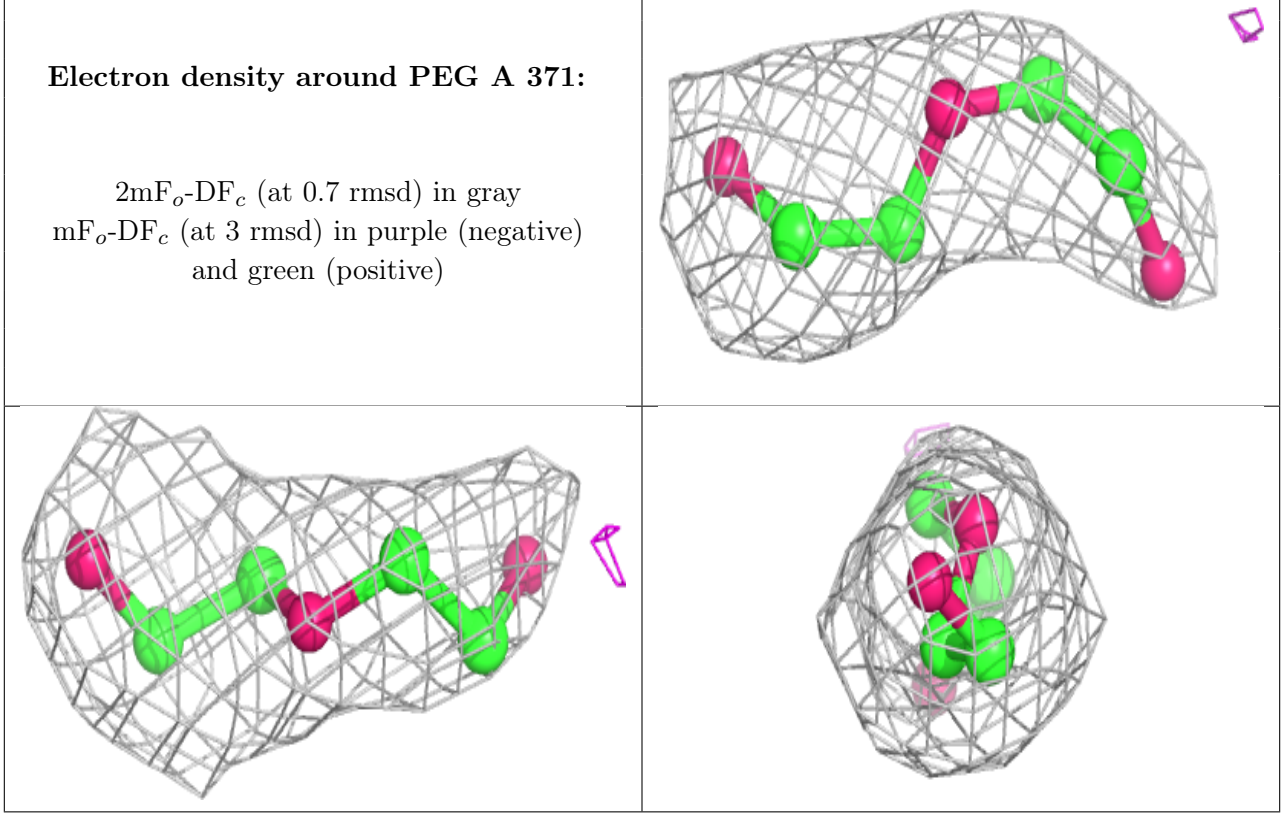






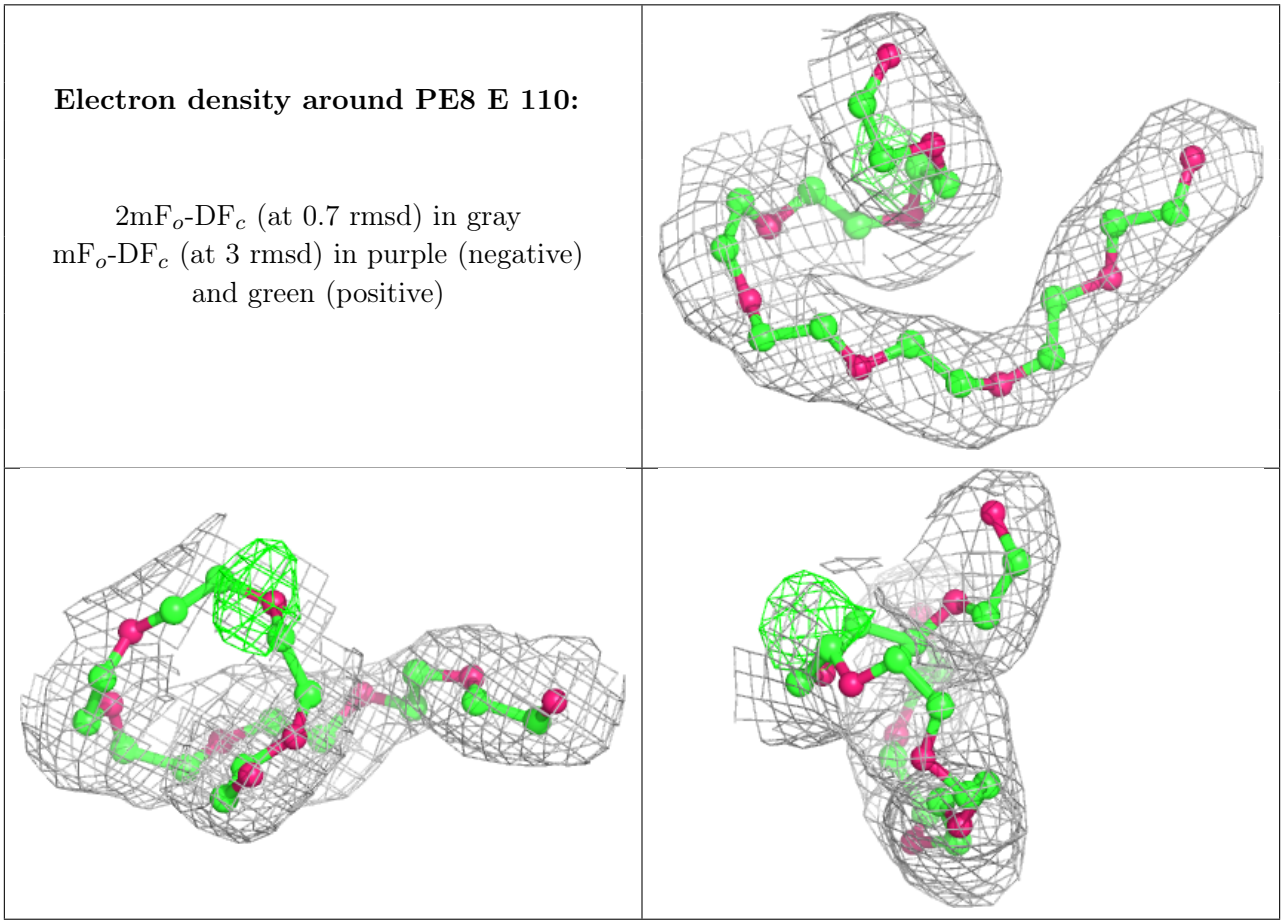
Electron density around PEG A 371:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



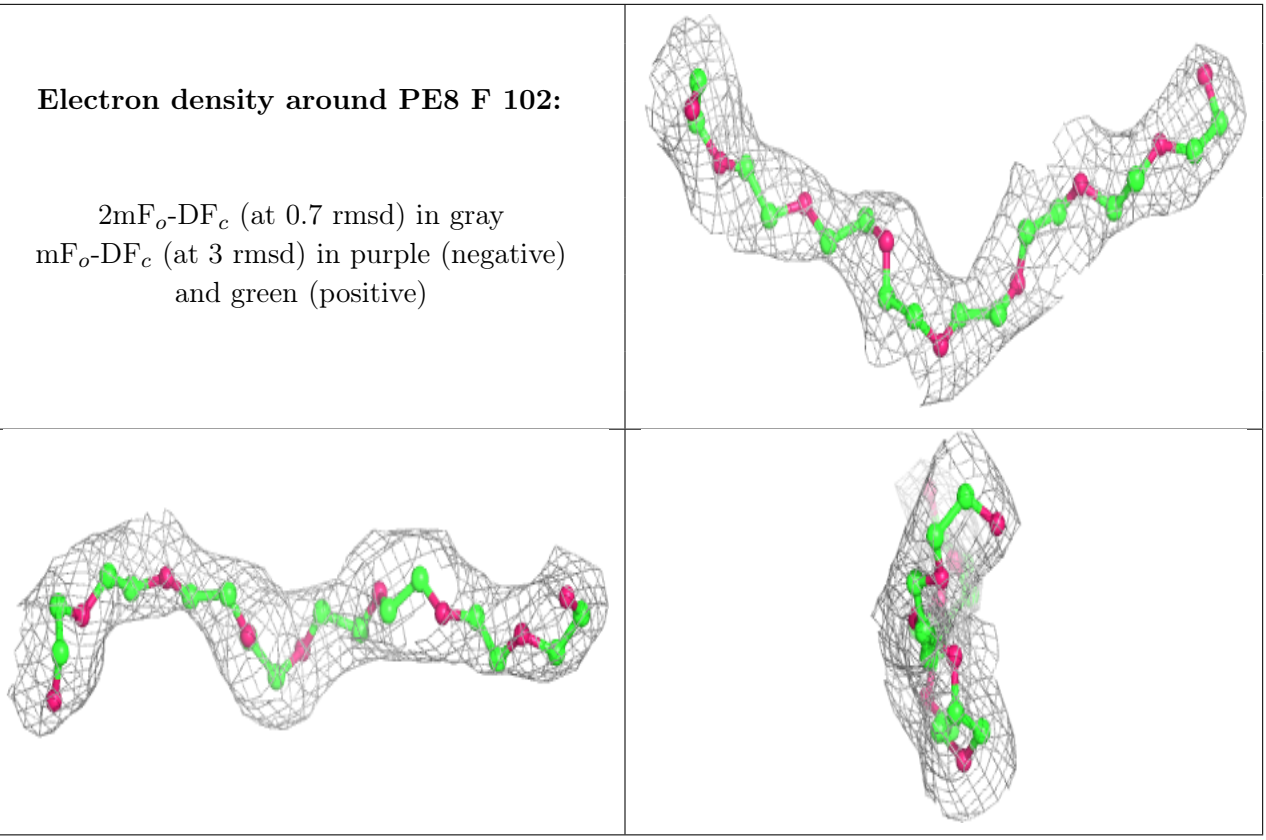
Electron density around PE8 E 110:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



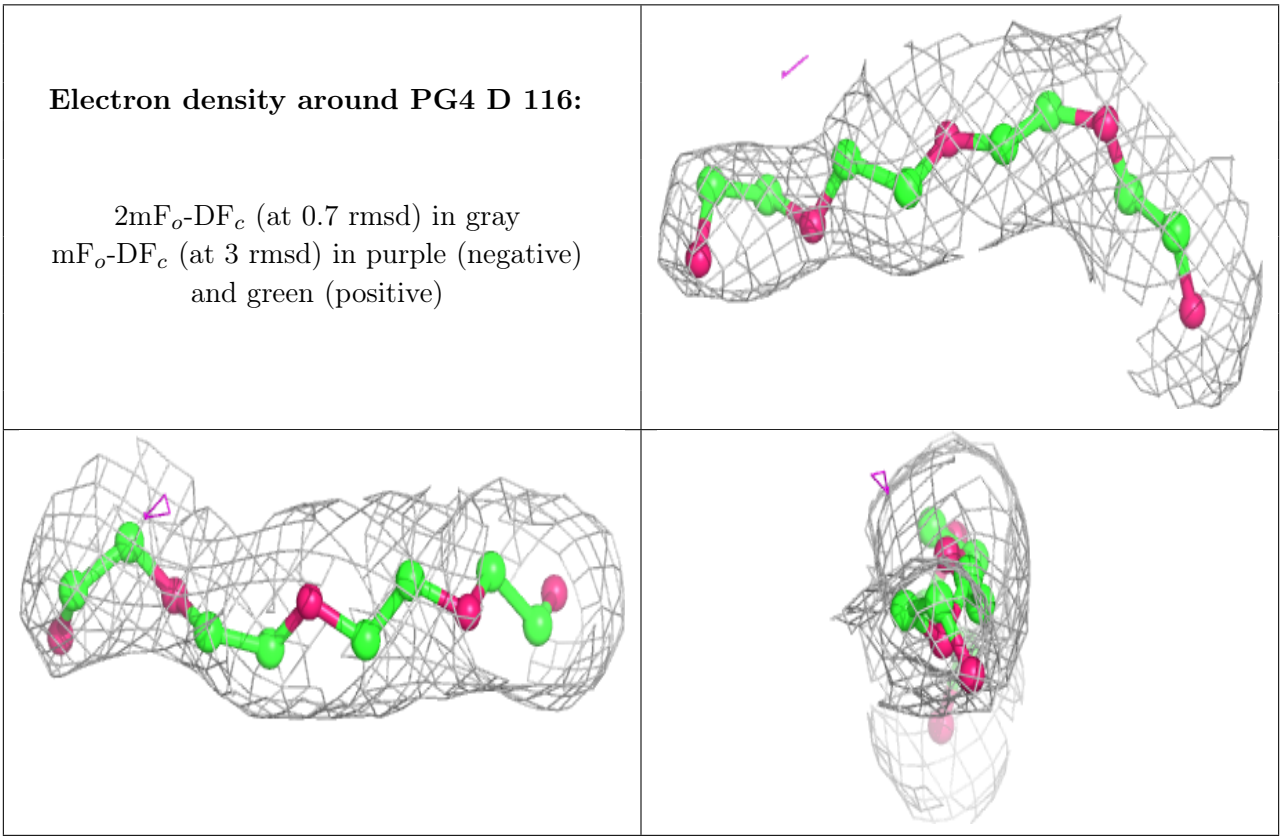
Electron density around PE8 F 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



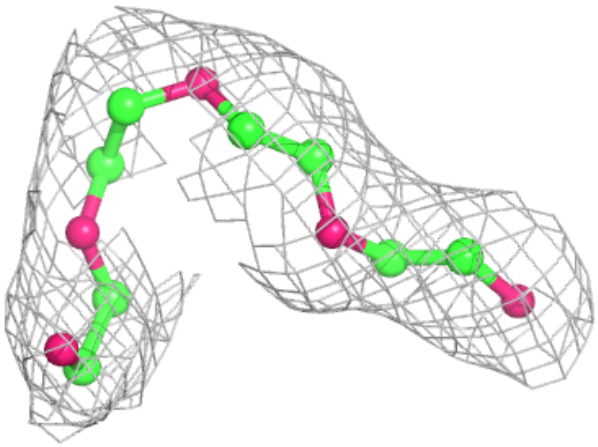
Electron density around PG4 D 116:

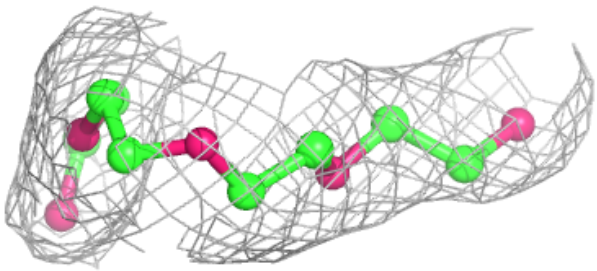
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

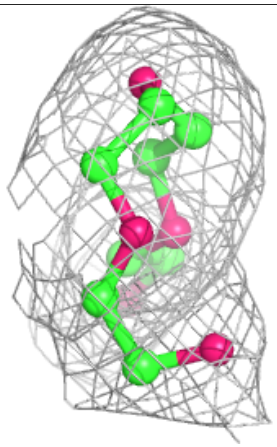


Electron density around PG4 D 117:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

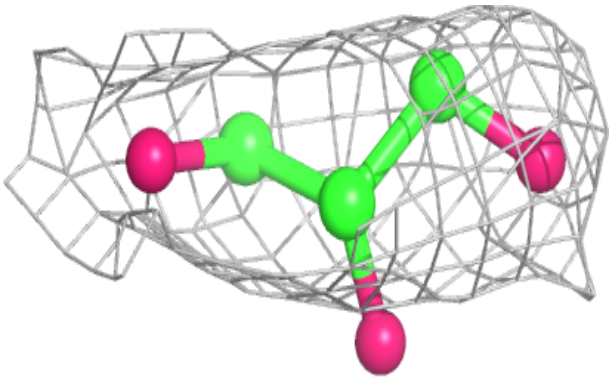


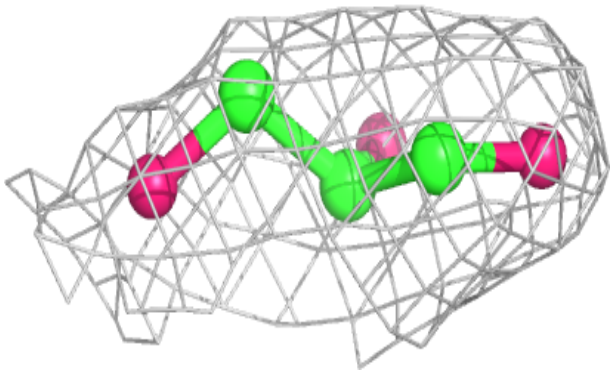


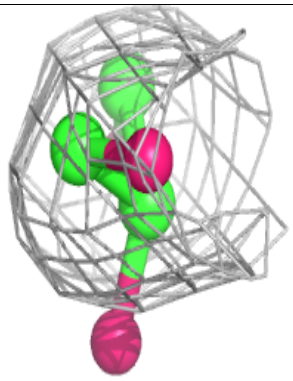


Electron density around GOL D 131:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

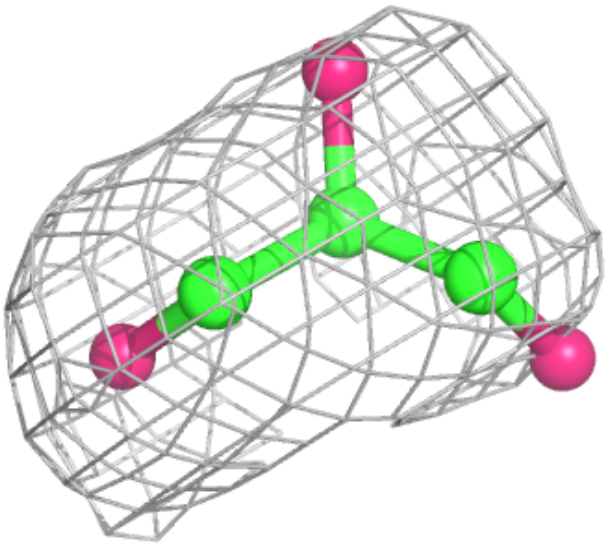


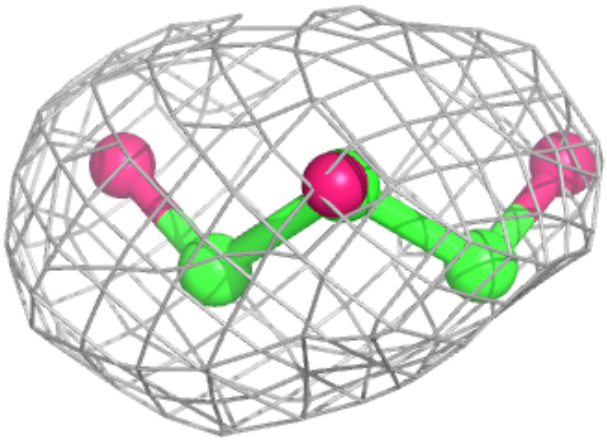


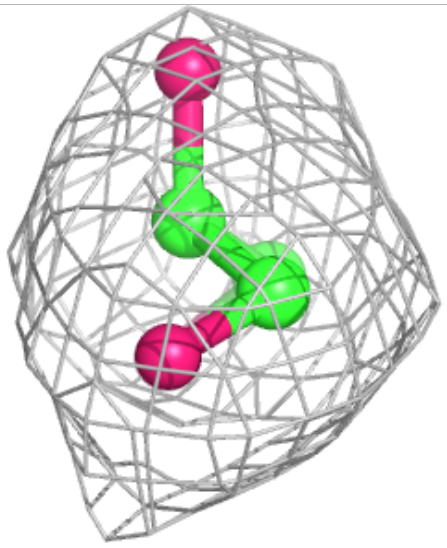


Electron density around GOL C 312:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

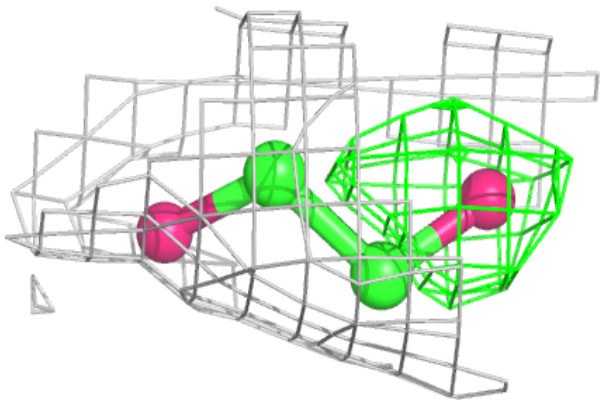


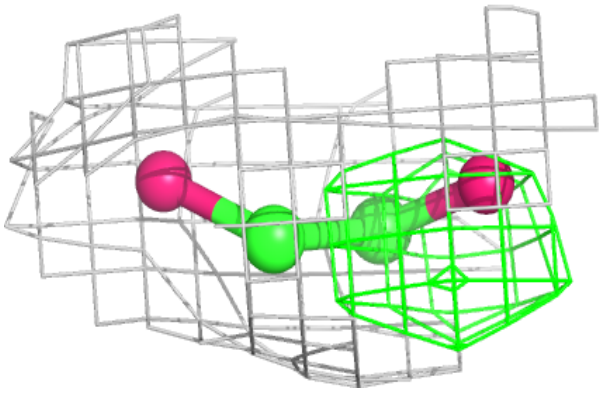


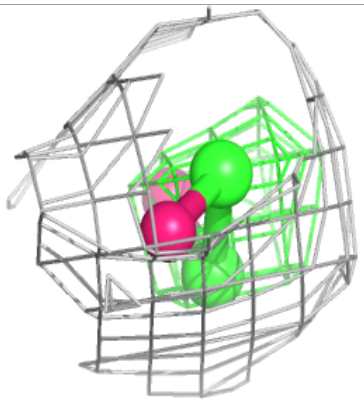


Electron density around EDO D 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

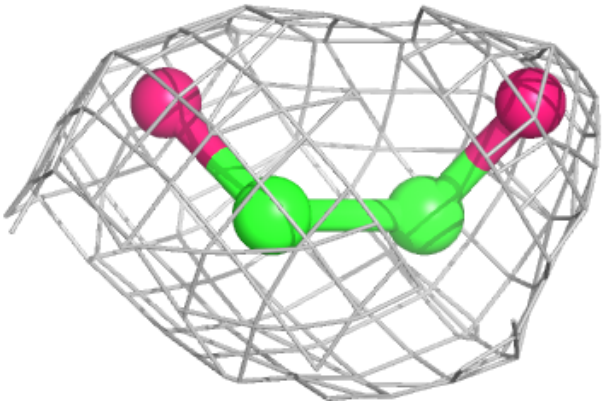


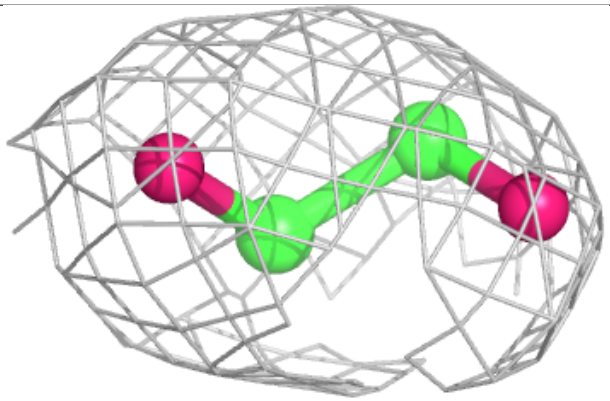


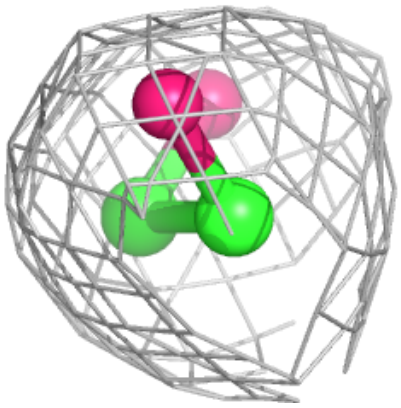


Electron density around EDO D 130:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

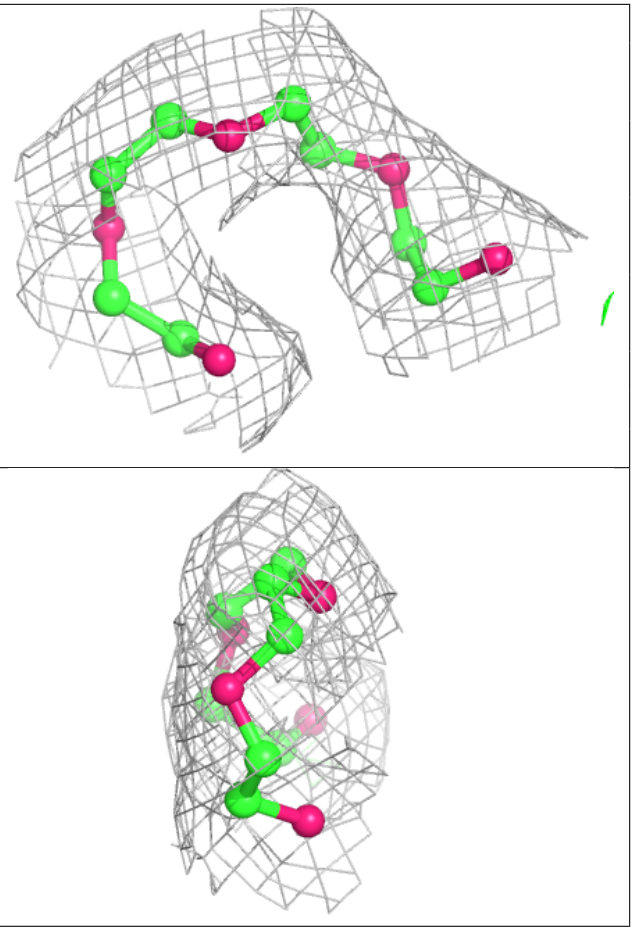


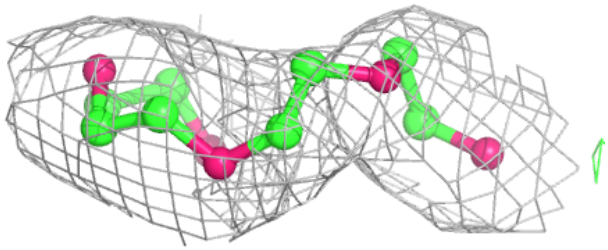




Electron density around PG4 E 106:

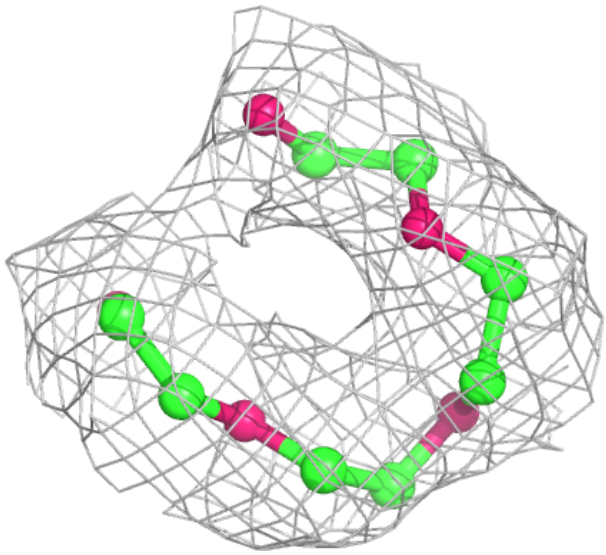
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

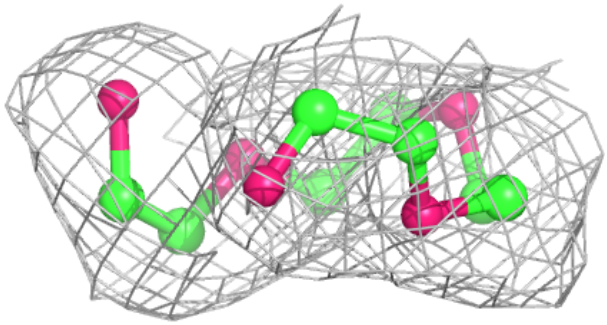


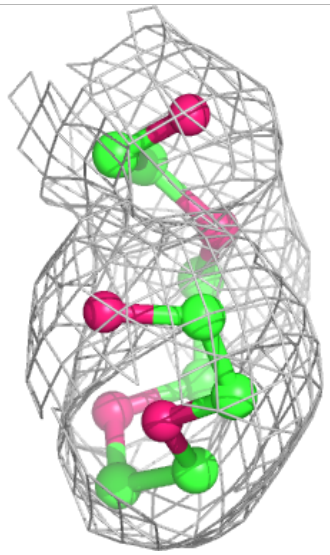


Electron density around PG4 F 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

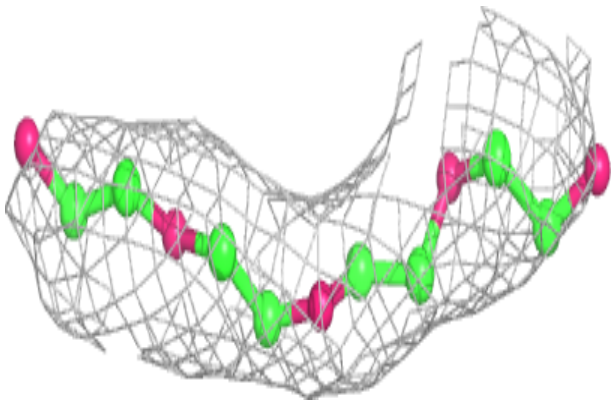


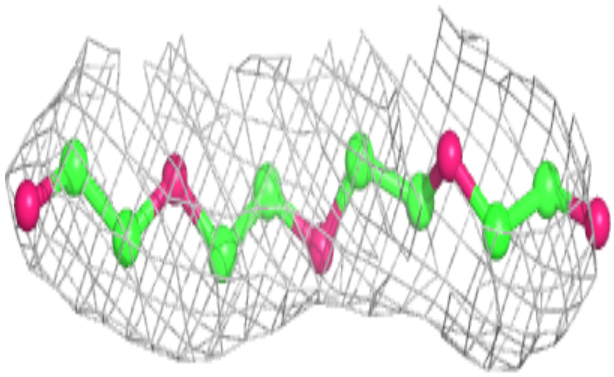


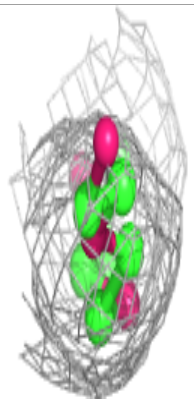


Electron density around PG4 B 120:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

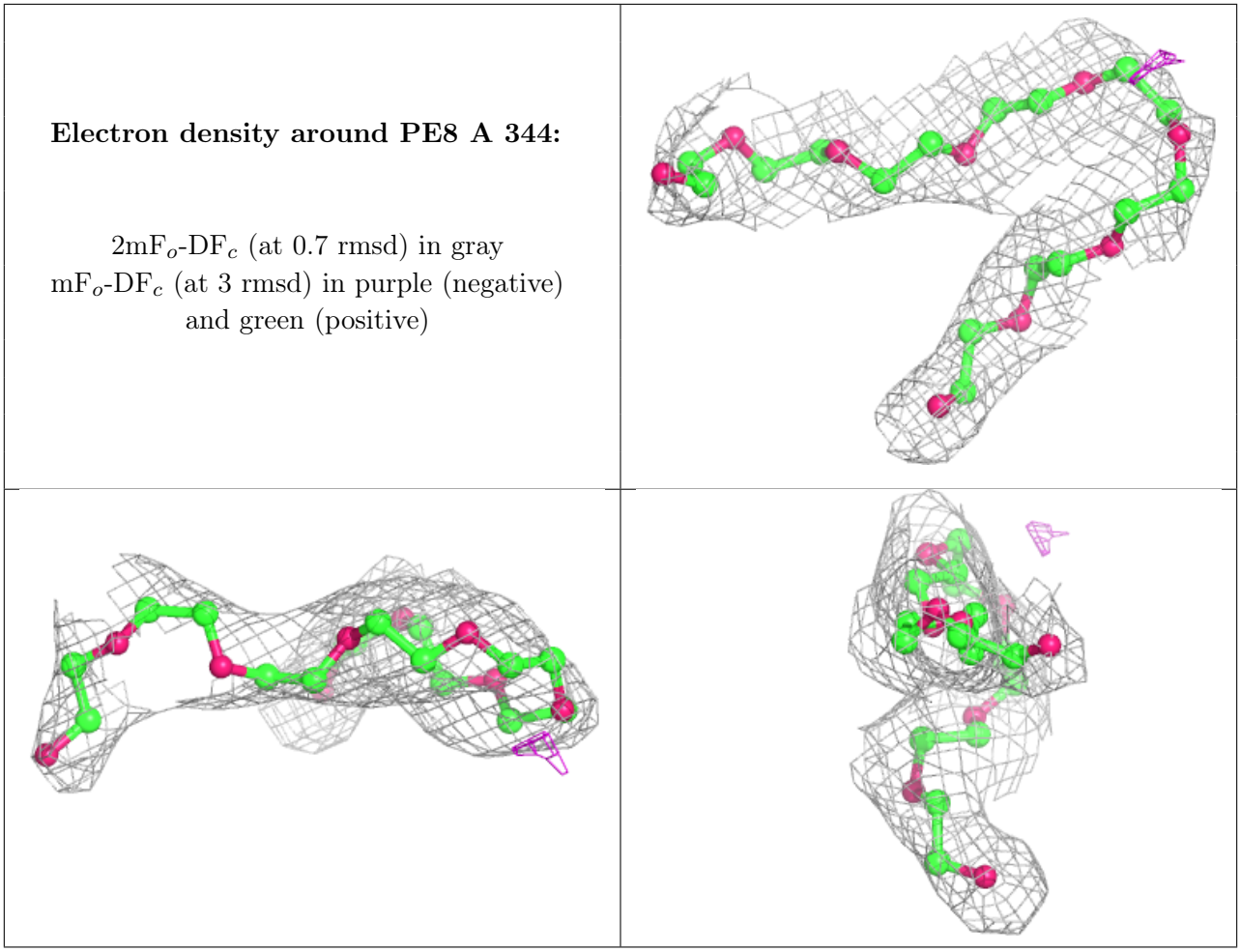






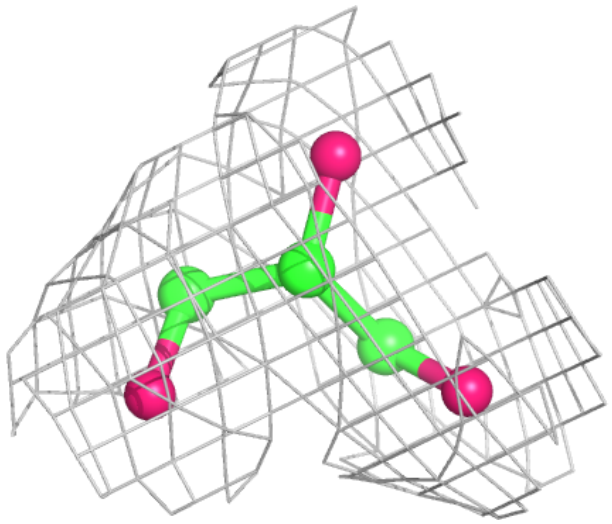
Electron density around PE8 A 344:

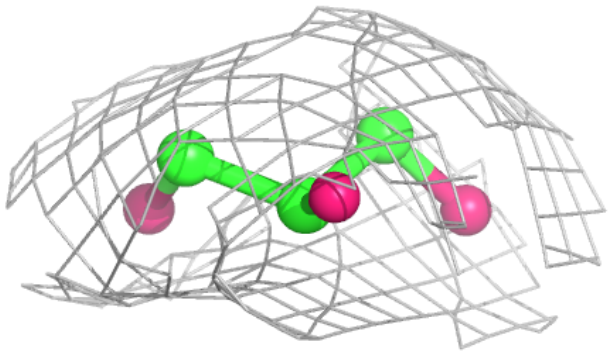
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

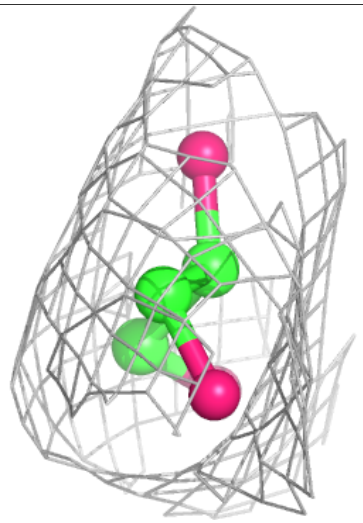


Electron density around GOL D 107:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

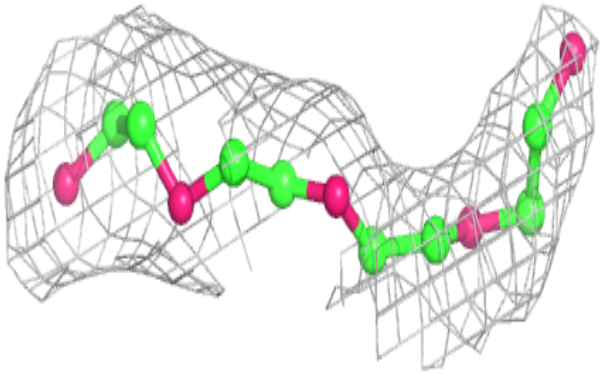


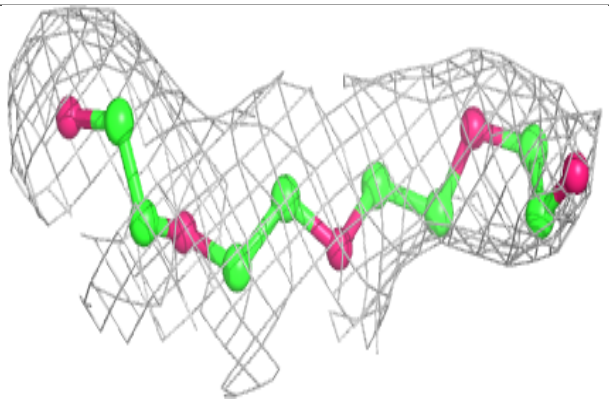


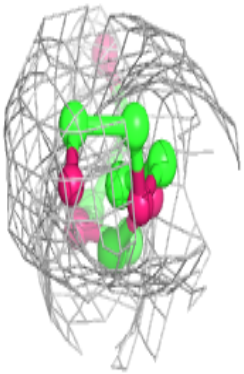


Electron density around PG4 C 319:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

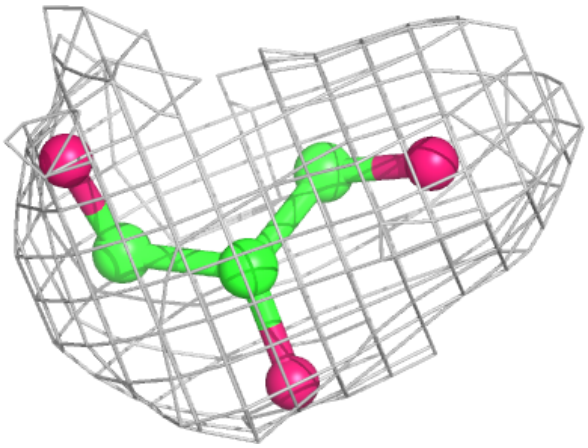


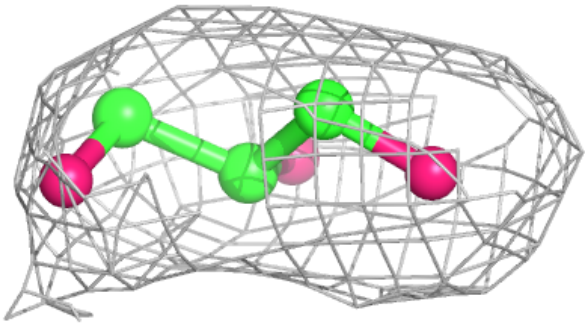


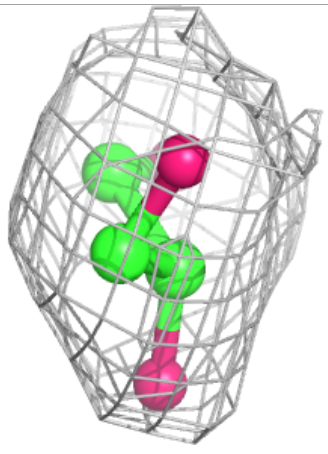


Electron density around GOL B 109:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

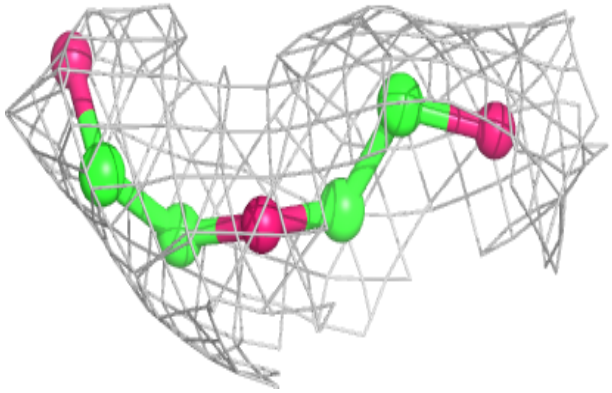


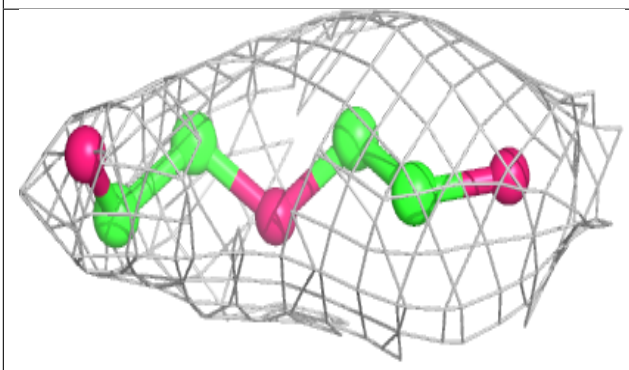


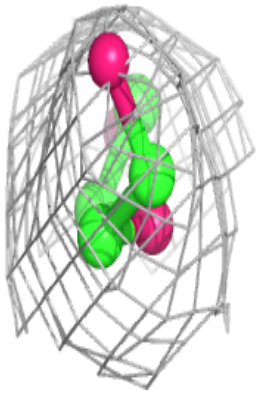


Electron density around PEG C 329:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

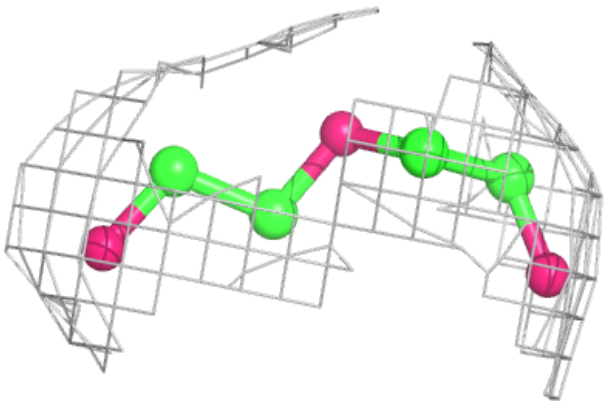


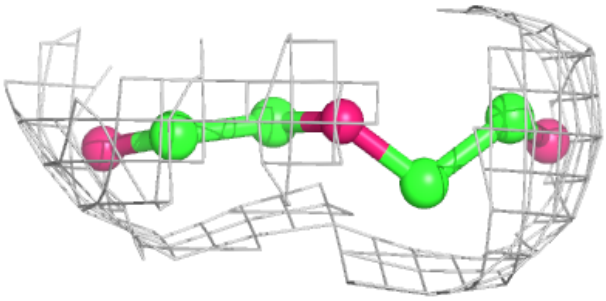


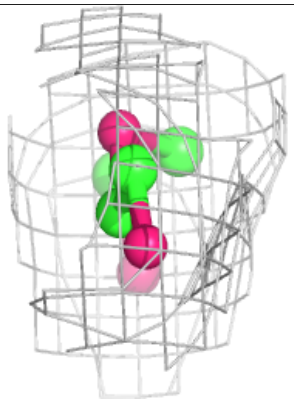


Electron density around PEG C 330:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

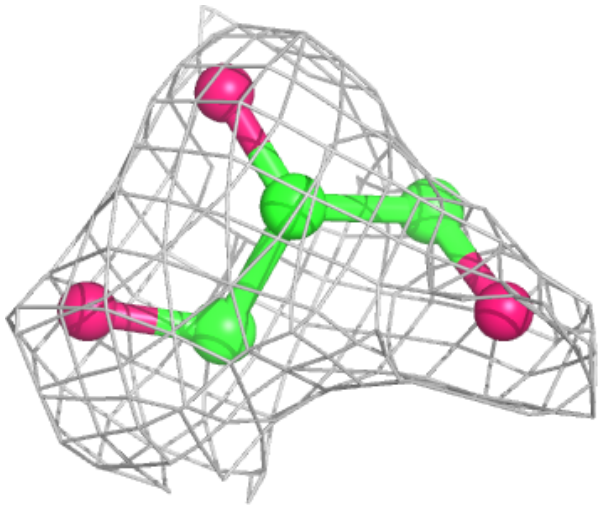


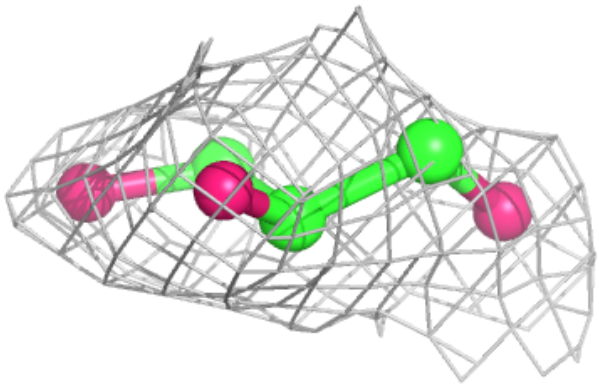


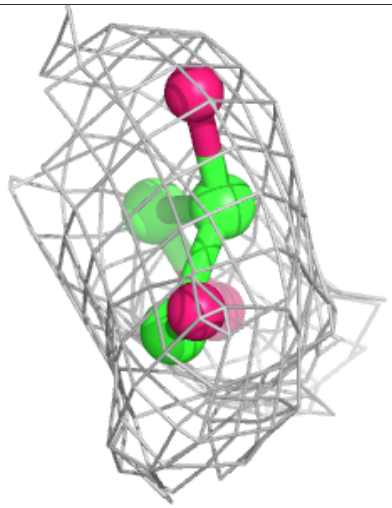


Electron density around GOL A 303:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

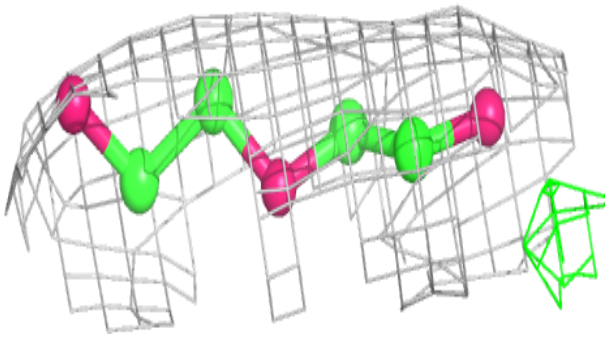


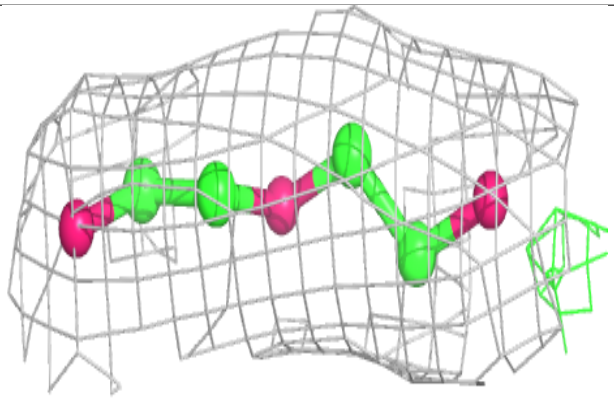


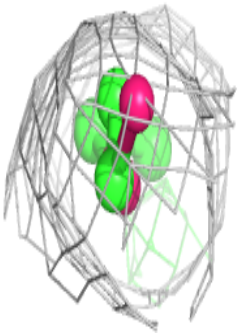


Electron density around PEG A 338:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

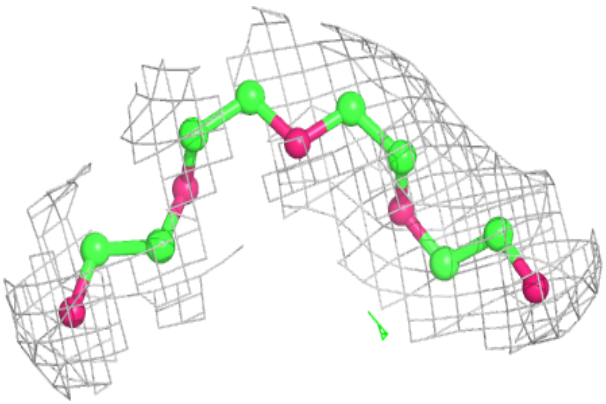


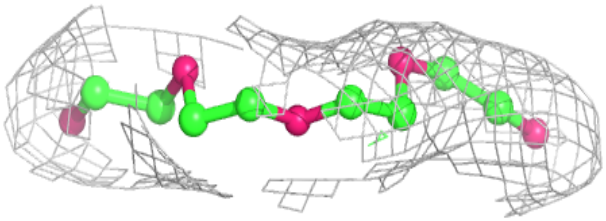


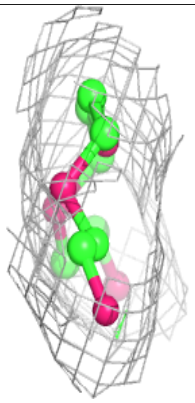


Electron density around PG4 A 322:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

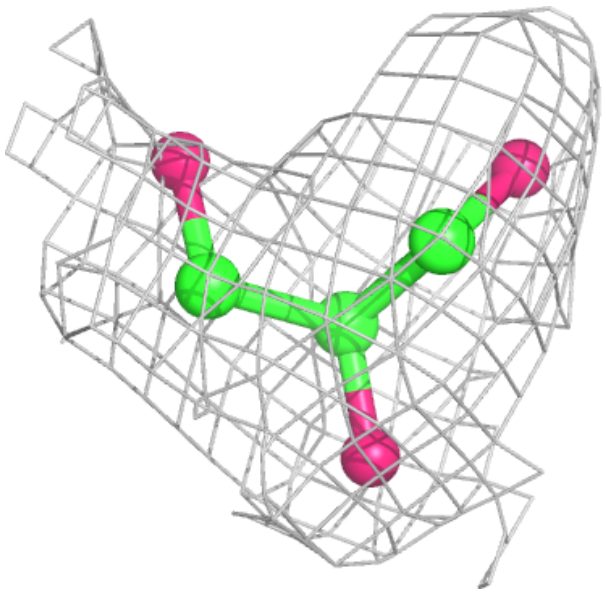


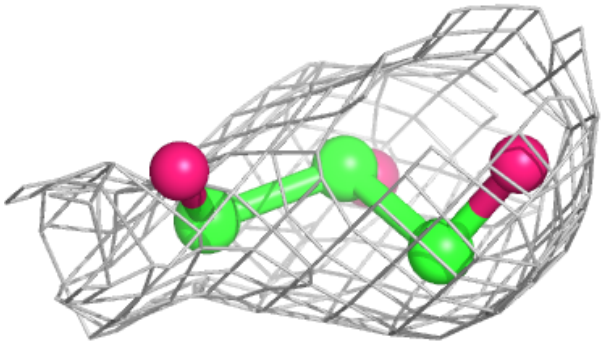


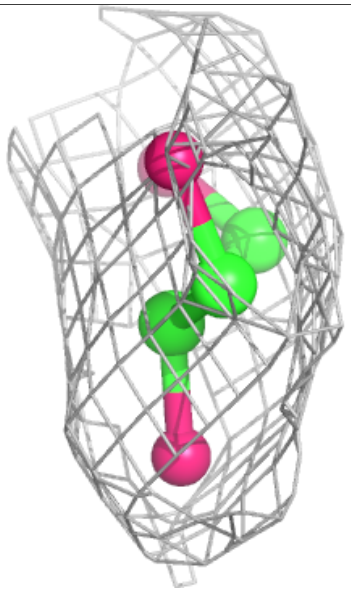


Electron density around GOL C 313:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

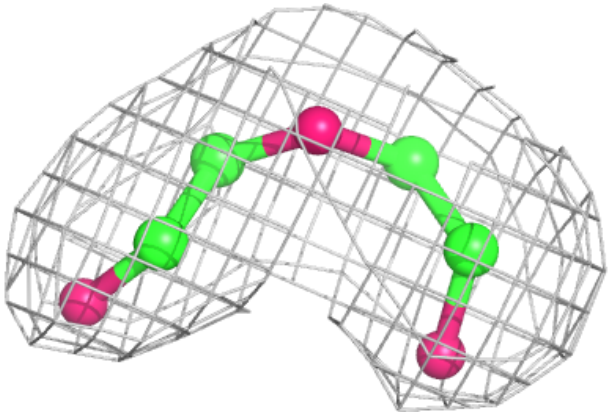


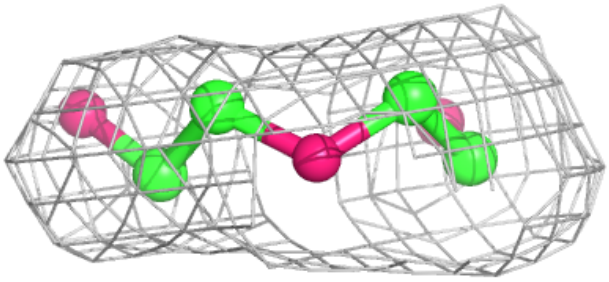


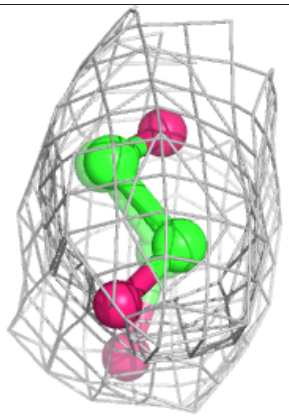


Electron density around PEG B 130:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

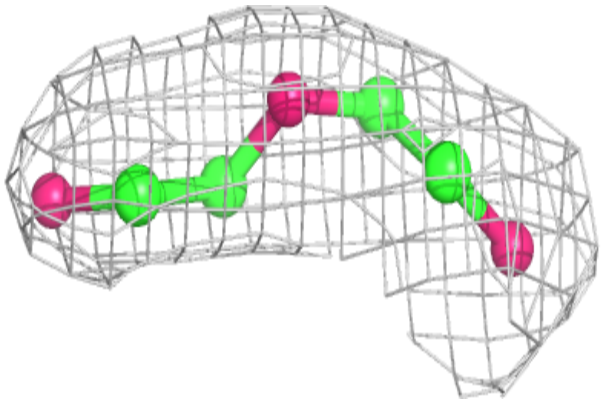


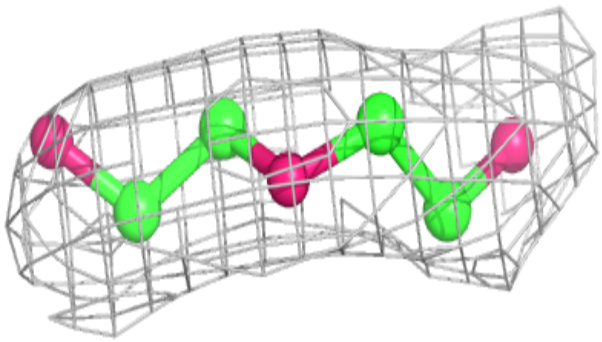


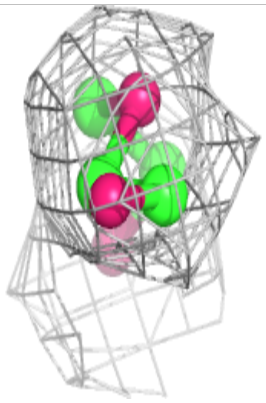


Electron density around PEG C 332:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

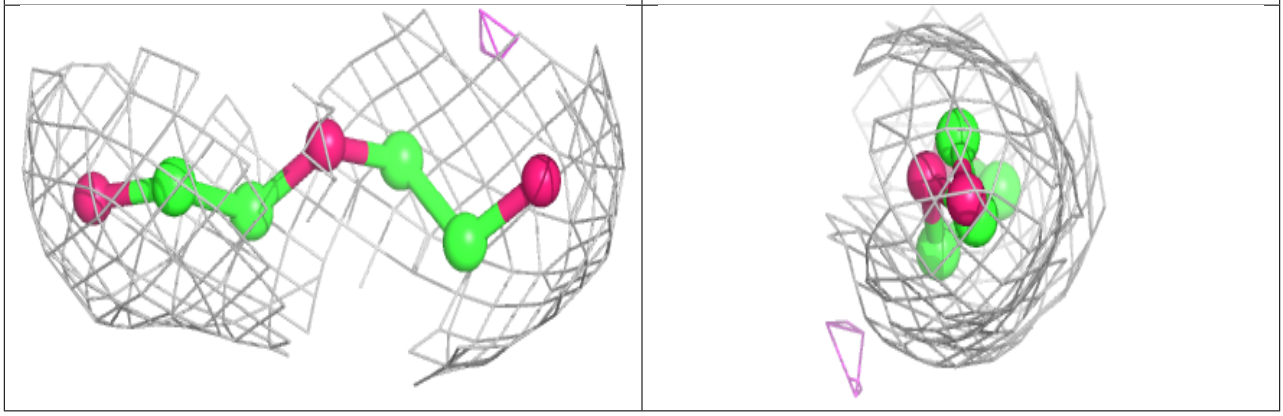






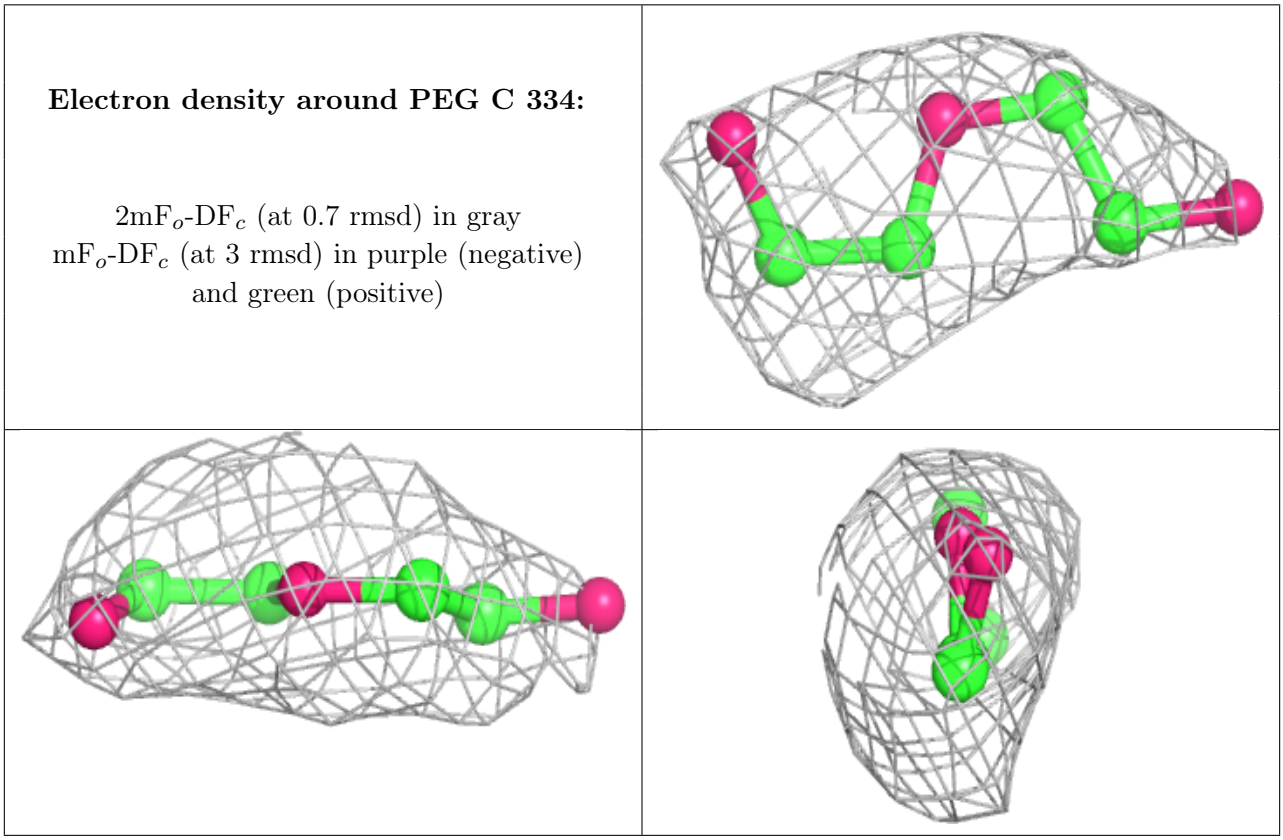
Electron density around PEG A 339:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



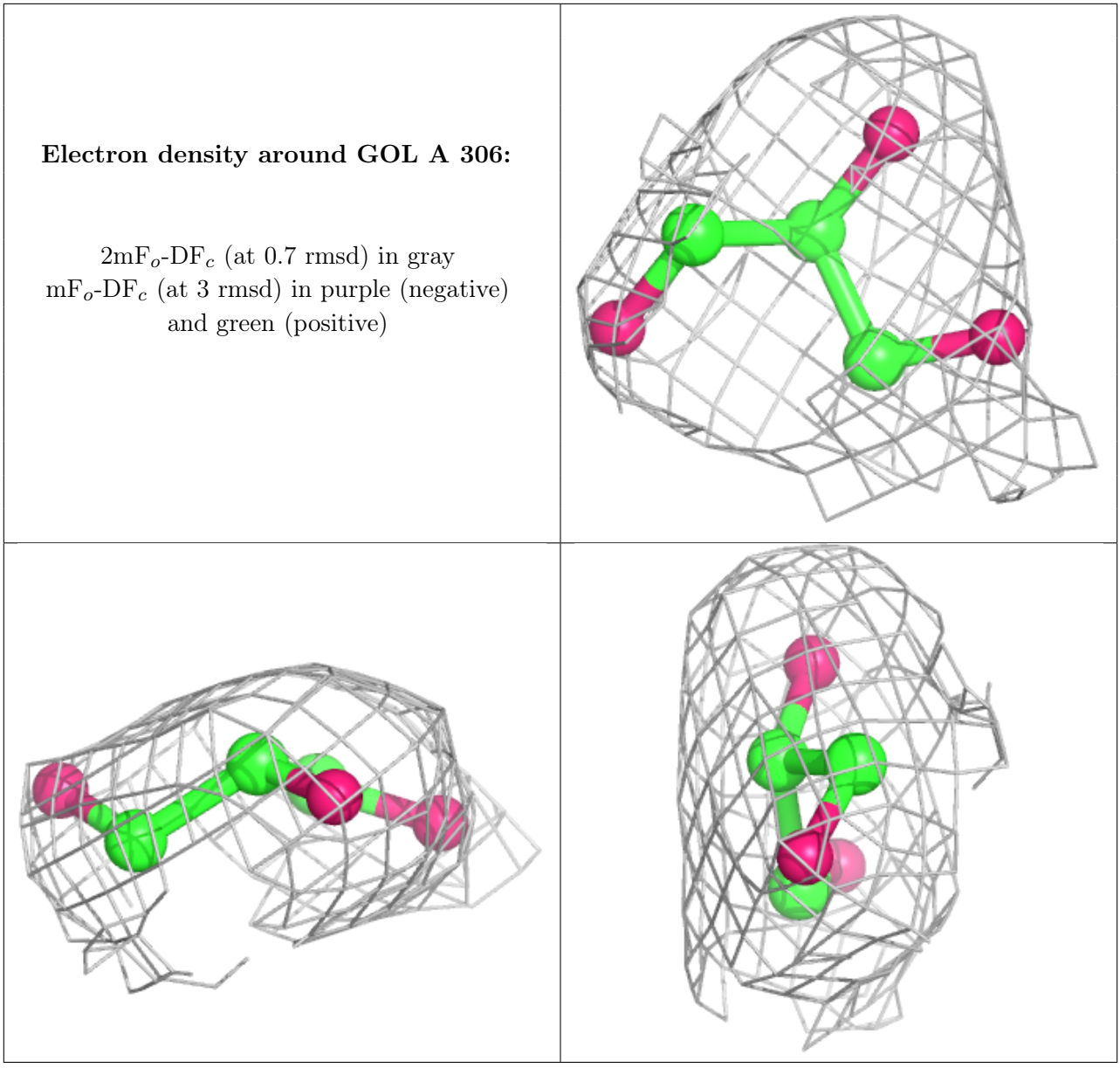
Electron density around PEG C 334:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



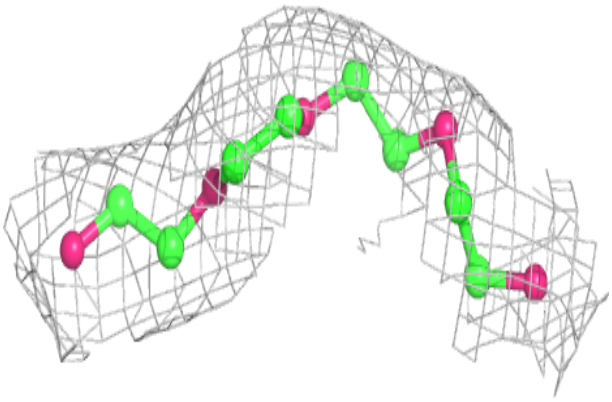
Electron density around GOL A 306:

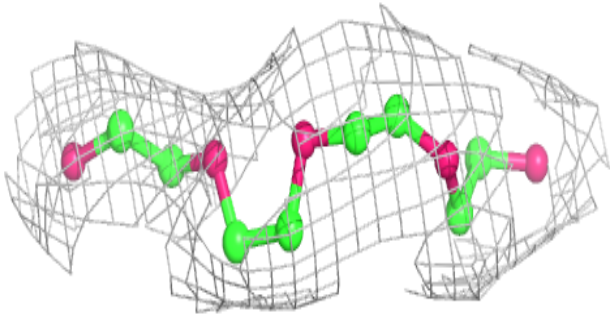
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

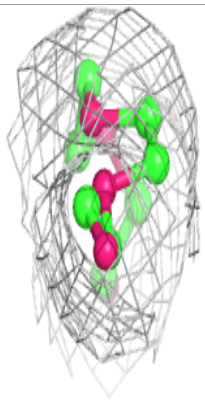


Electron density around PG4 E 114:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

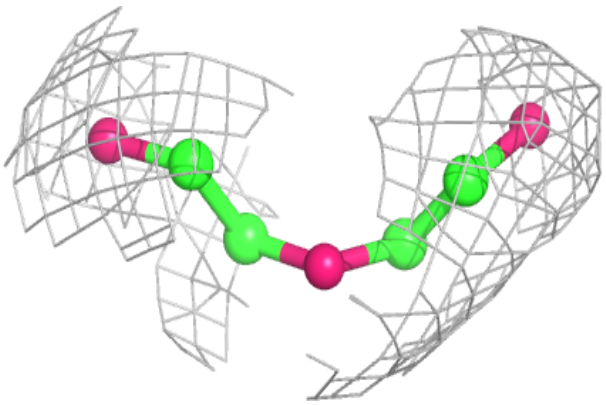


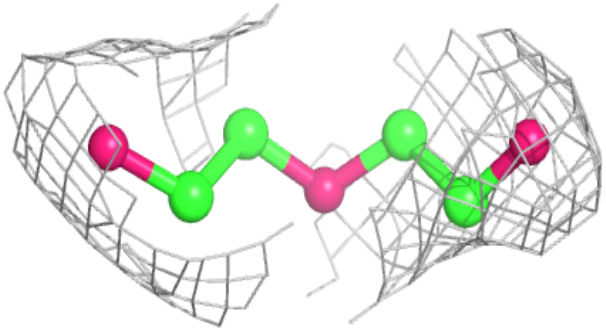


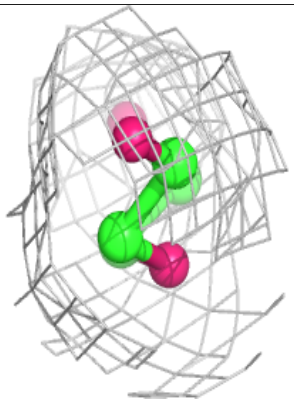


Electron density around PEG D 121:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

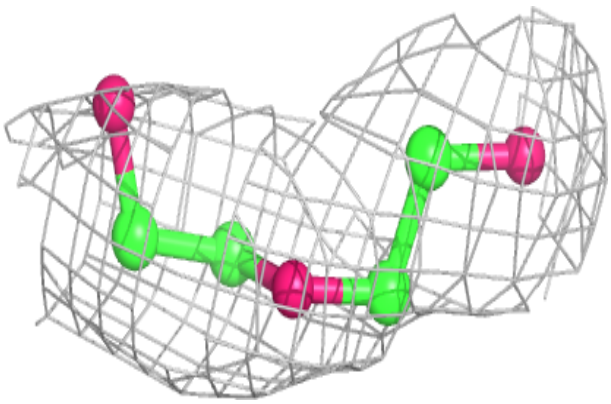


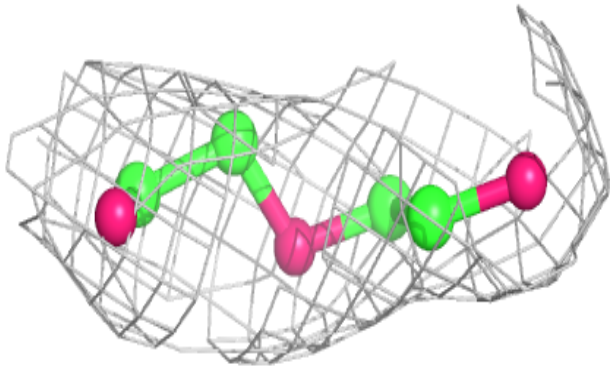


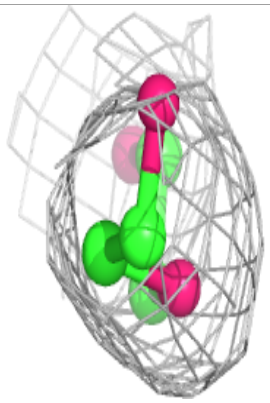


Electron density around PEG D 122:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

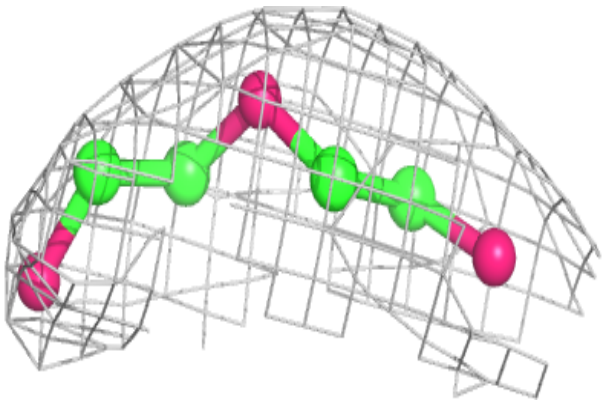


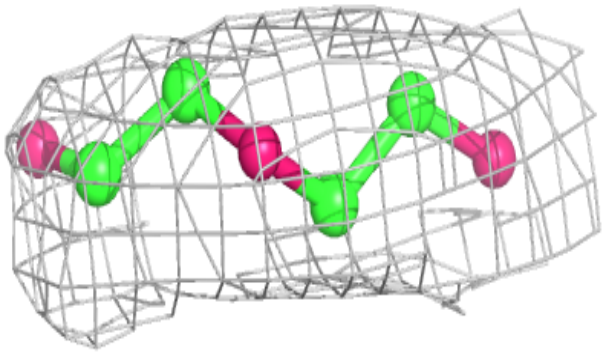


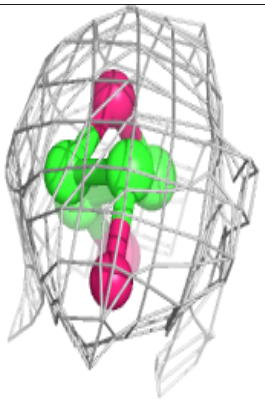


Electron density around PEG D 123:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

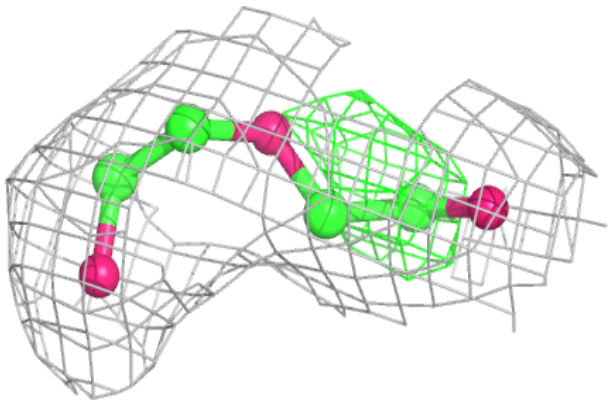


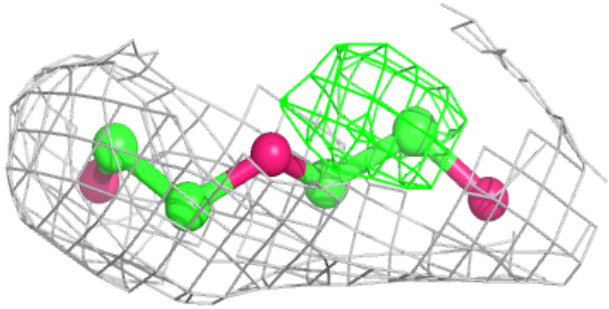


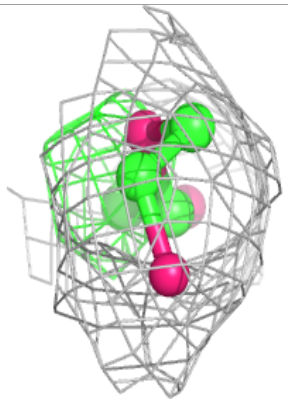


Electron density around PEG A 330:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

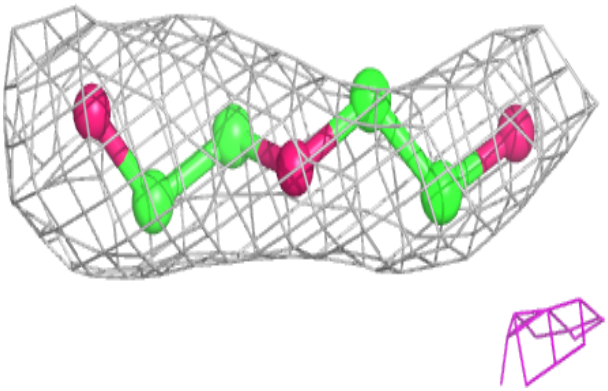


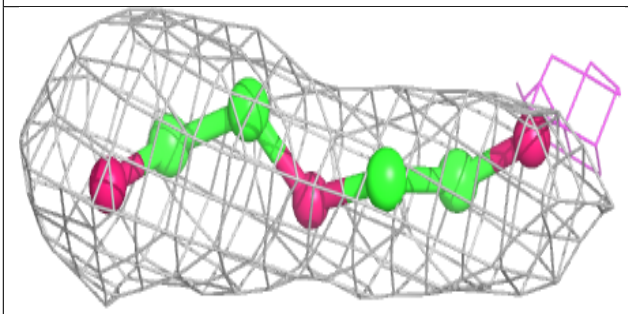


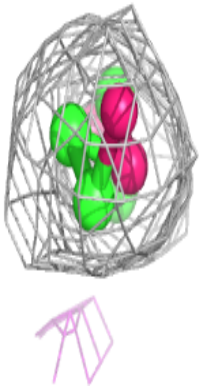


Electron density around PEG D 128:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

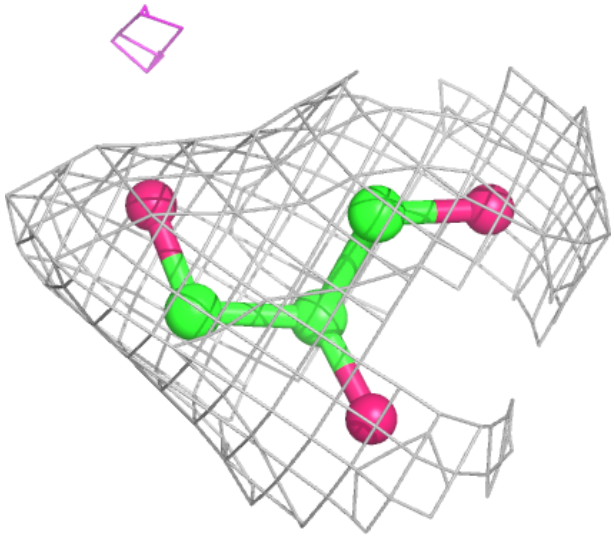


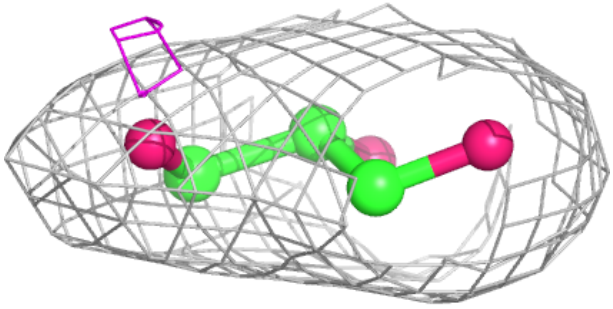


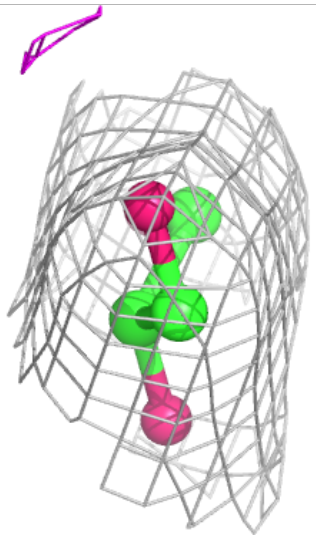


Electron density around GOL A 305:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

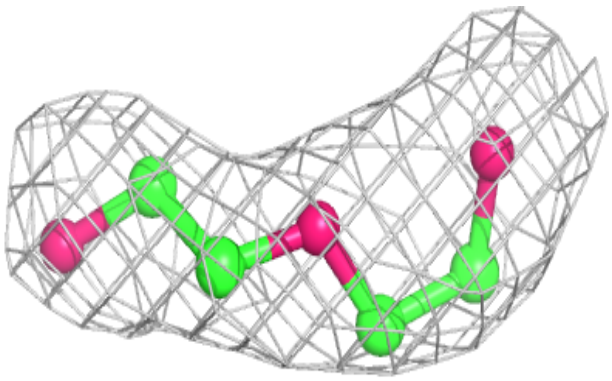


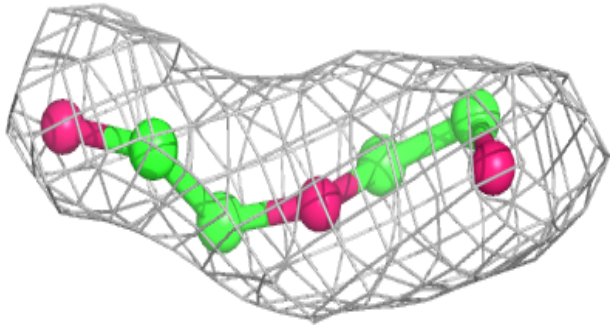


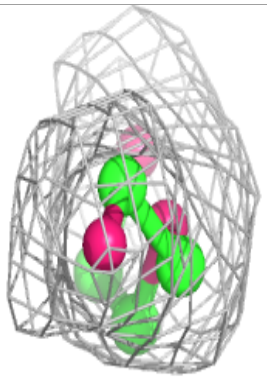


Electron density around PEG B 132:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

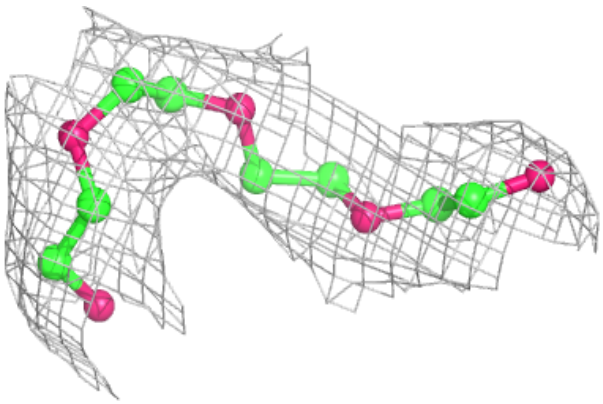


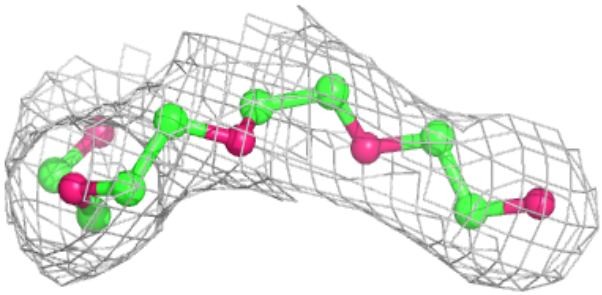


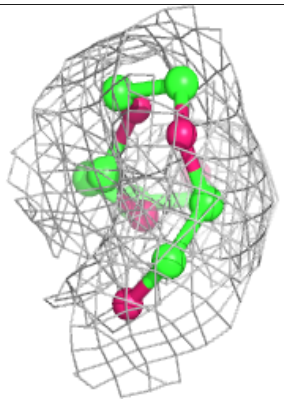


Electron density around PG4 C 321:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

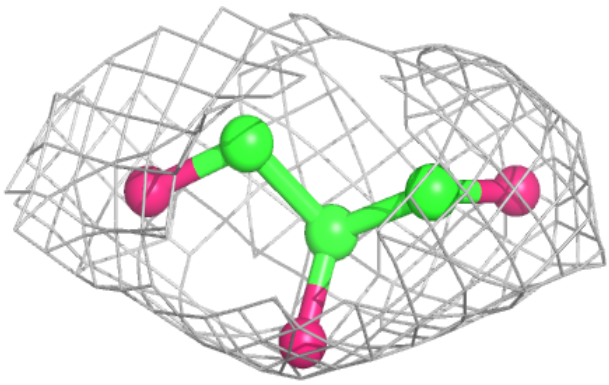


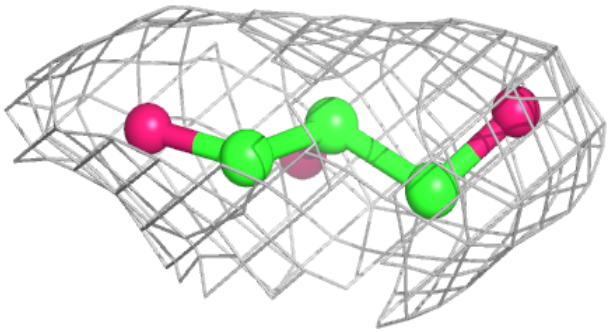


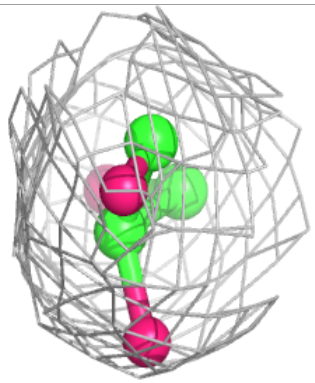


Electron density around GOL B 108:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

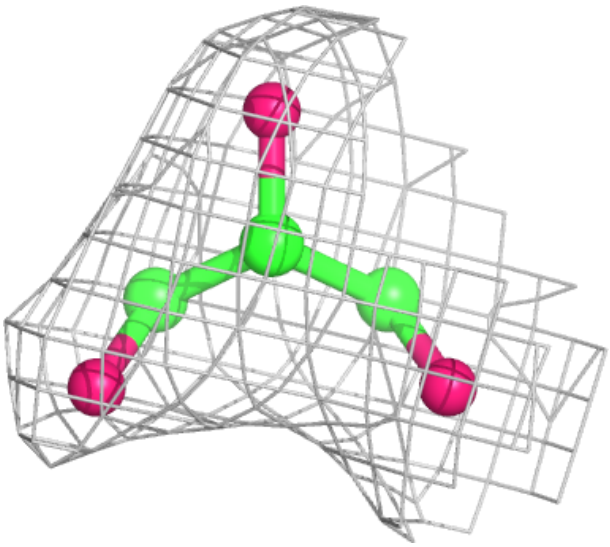


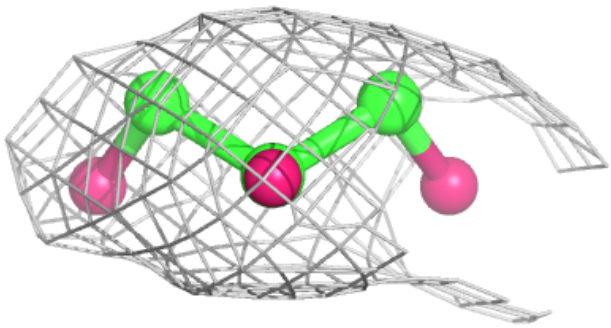


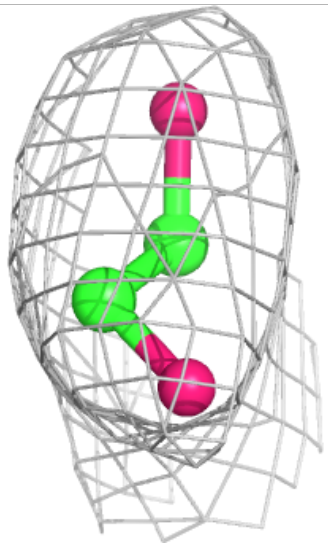


Electron density around GOL C 314:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

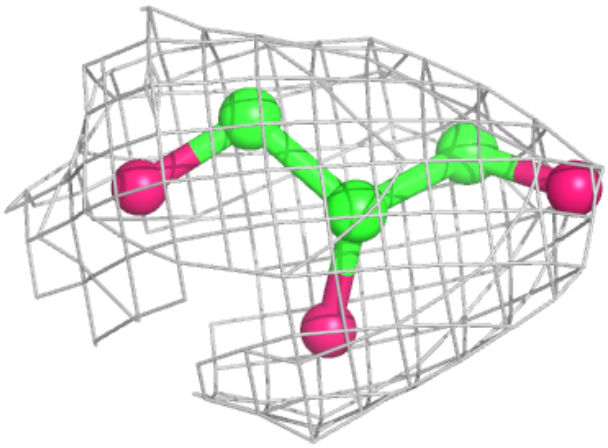


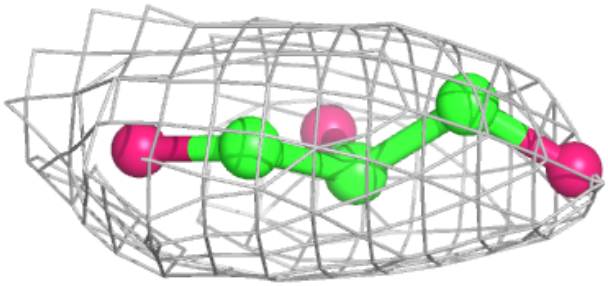


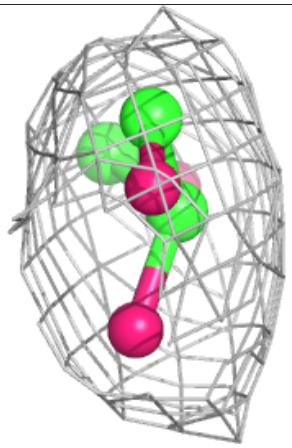


Electron density around GOL C 309:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

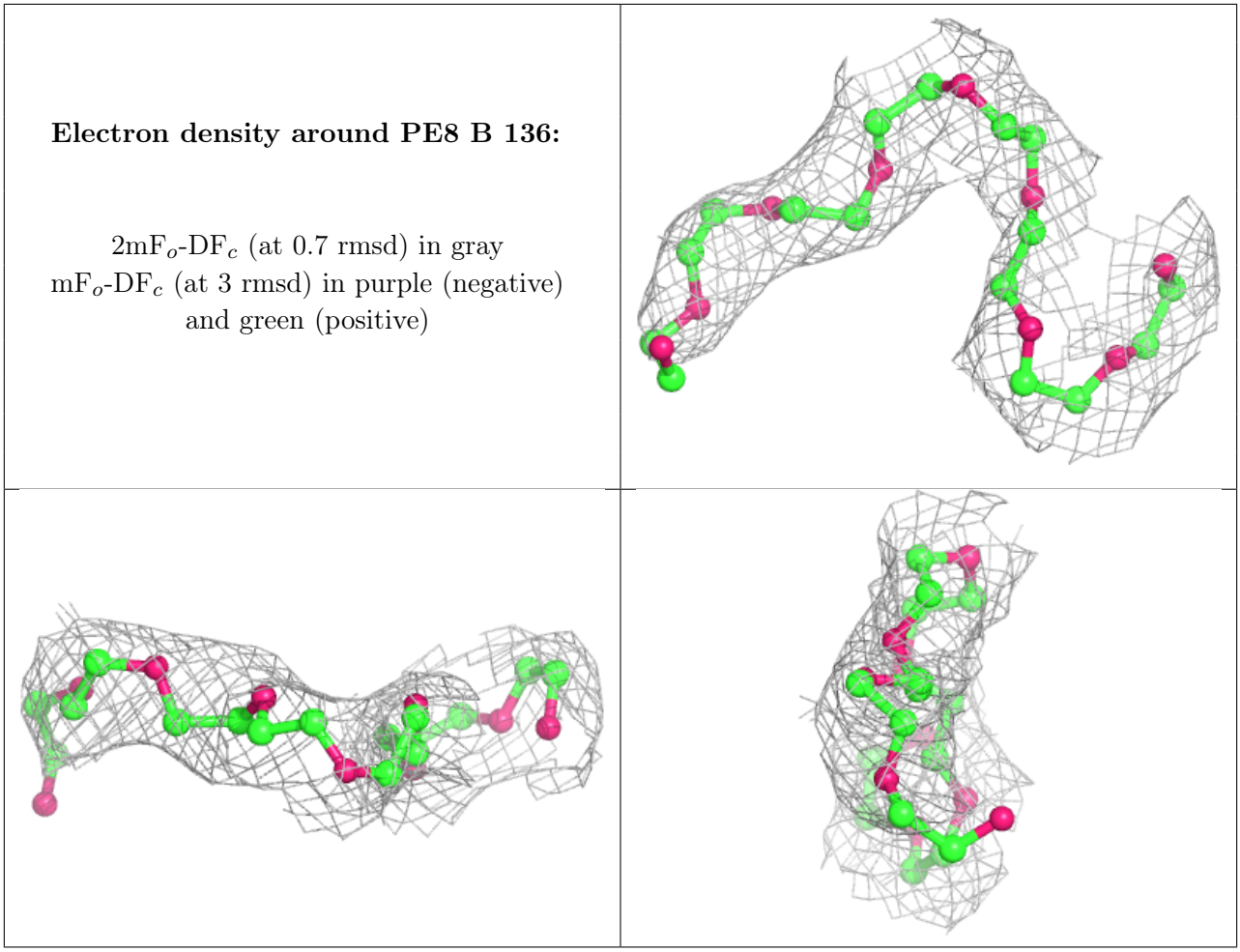






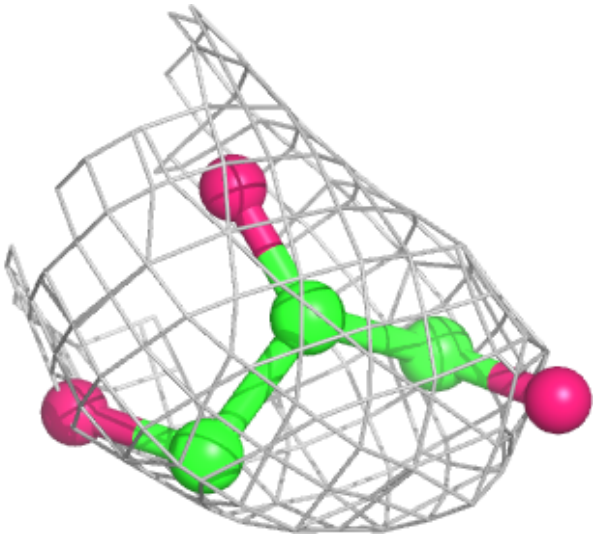
Electron density around PE8 B 136:

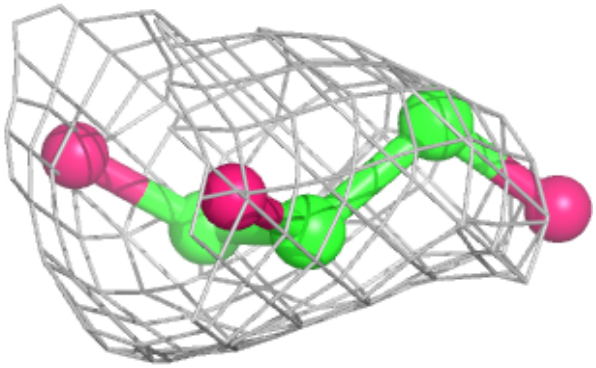
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

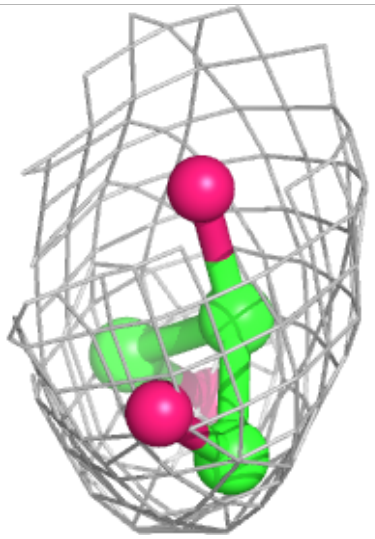


Electron density around GOL C 310:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

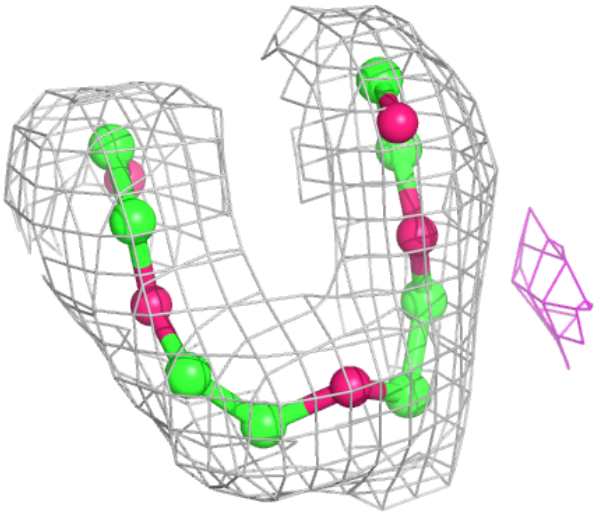


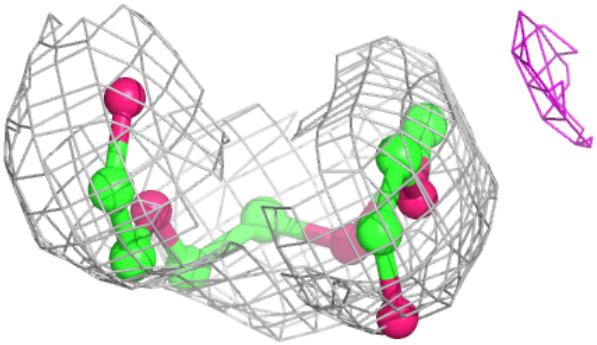


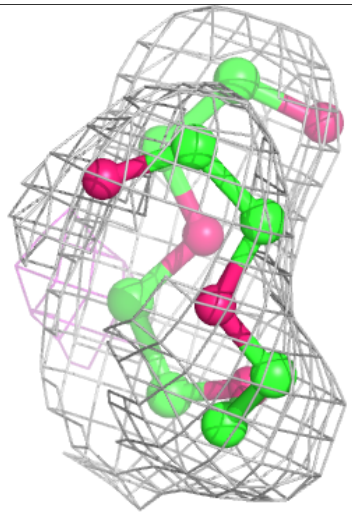


Electron density around PG4 A 369:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

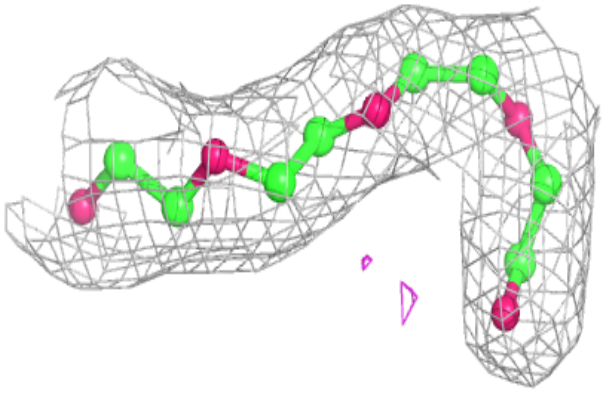


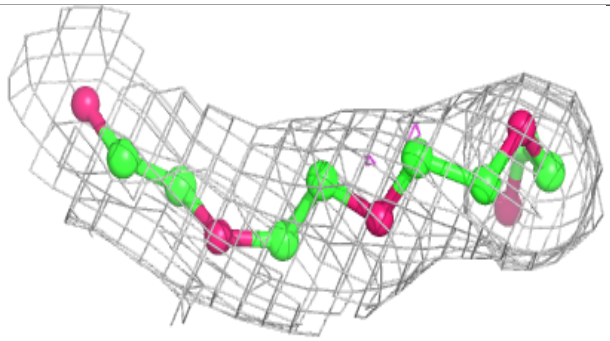


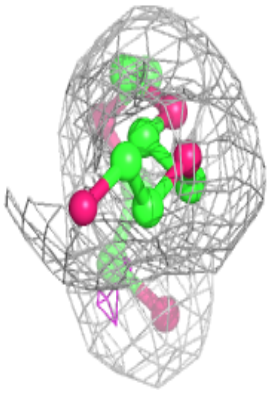


Electron density around PG4 A 320:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

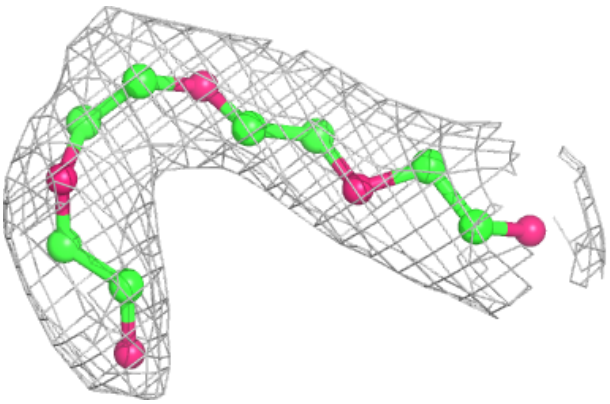


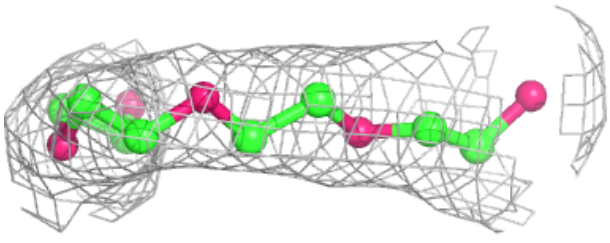


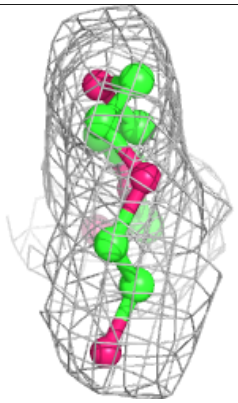


Electron density around PG4 B 116:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

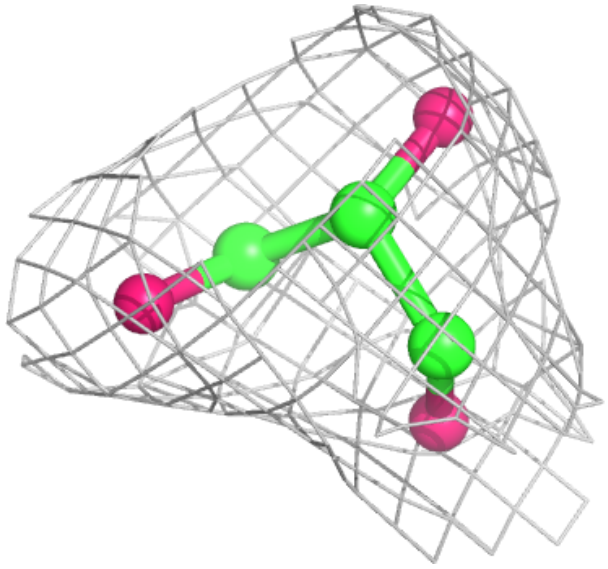


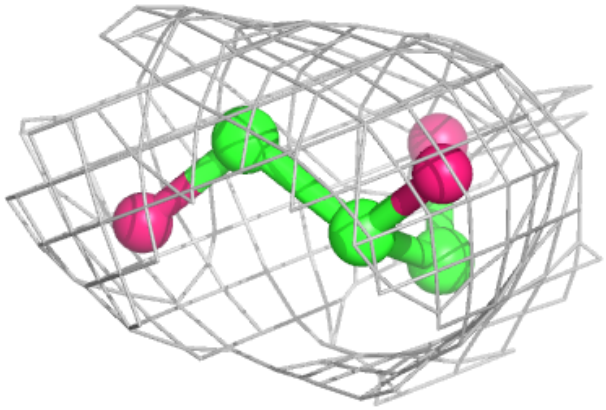


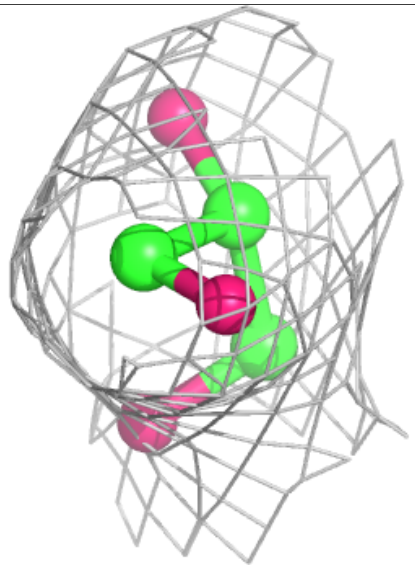


Electron density around GOL E 113:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

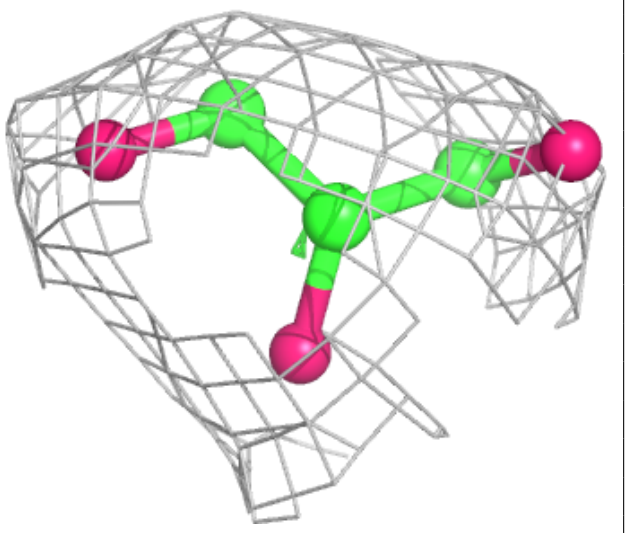


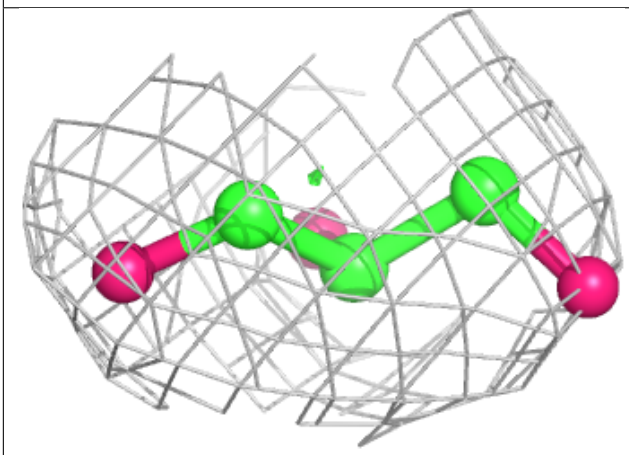


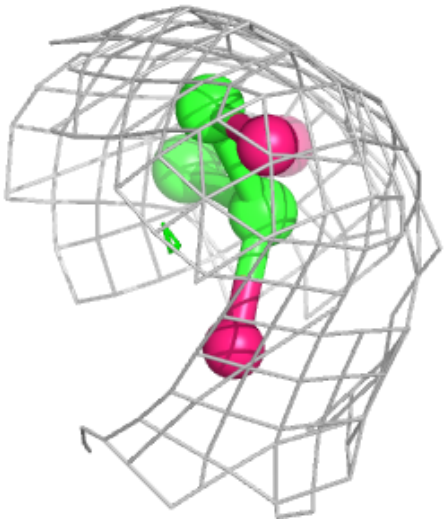


Electron density around GOL A 347:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

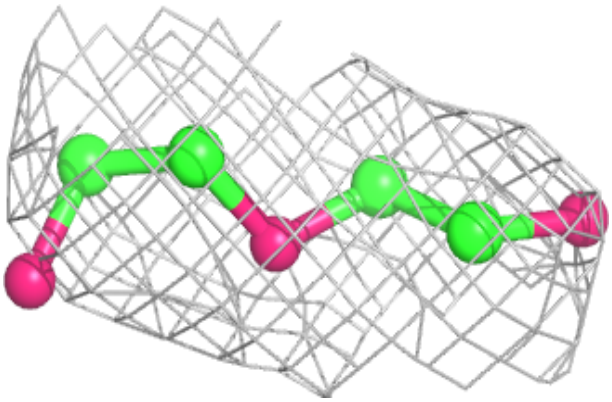


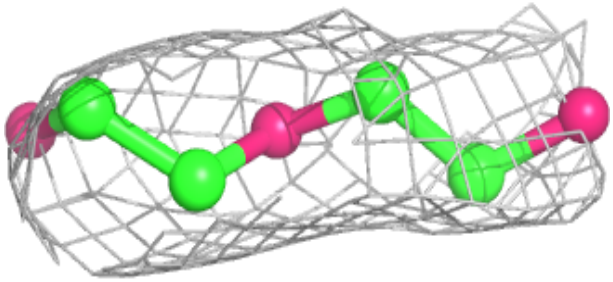


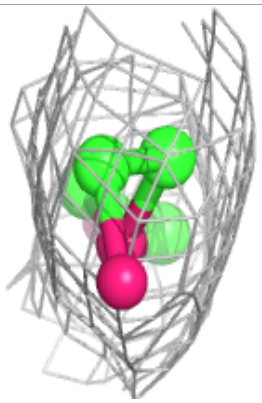


Electron density around PEG D 126:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

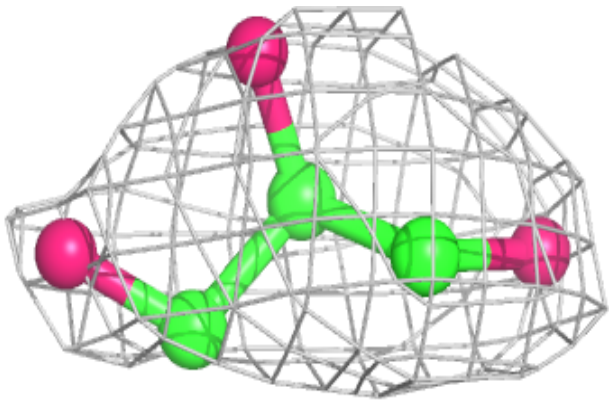


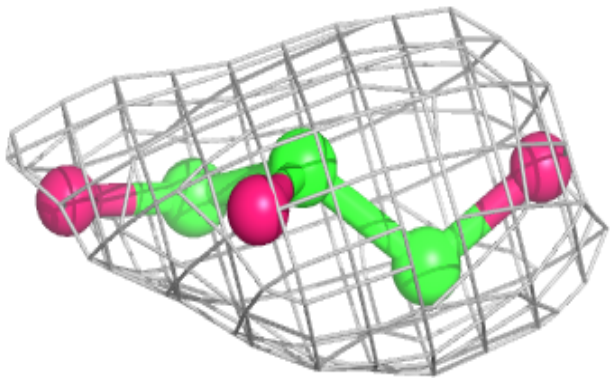


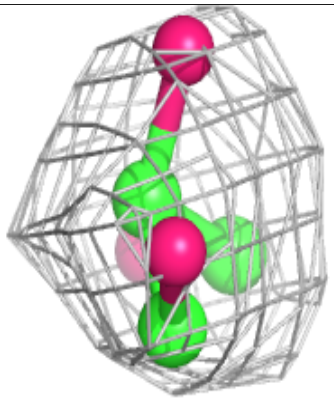


Electron density around GOL C 304:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

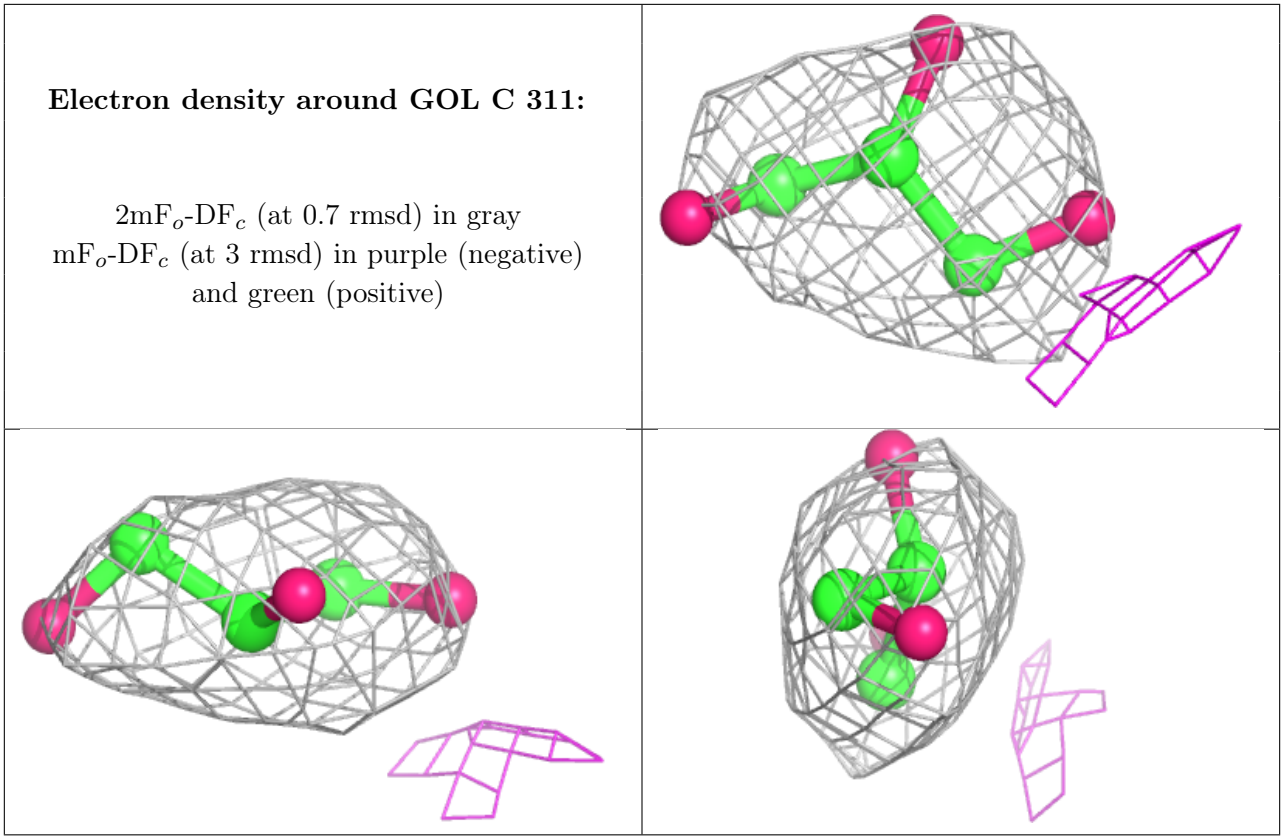






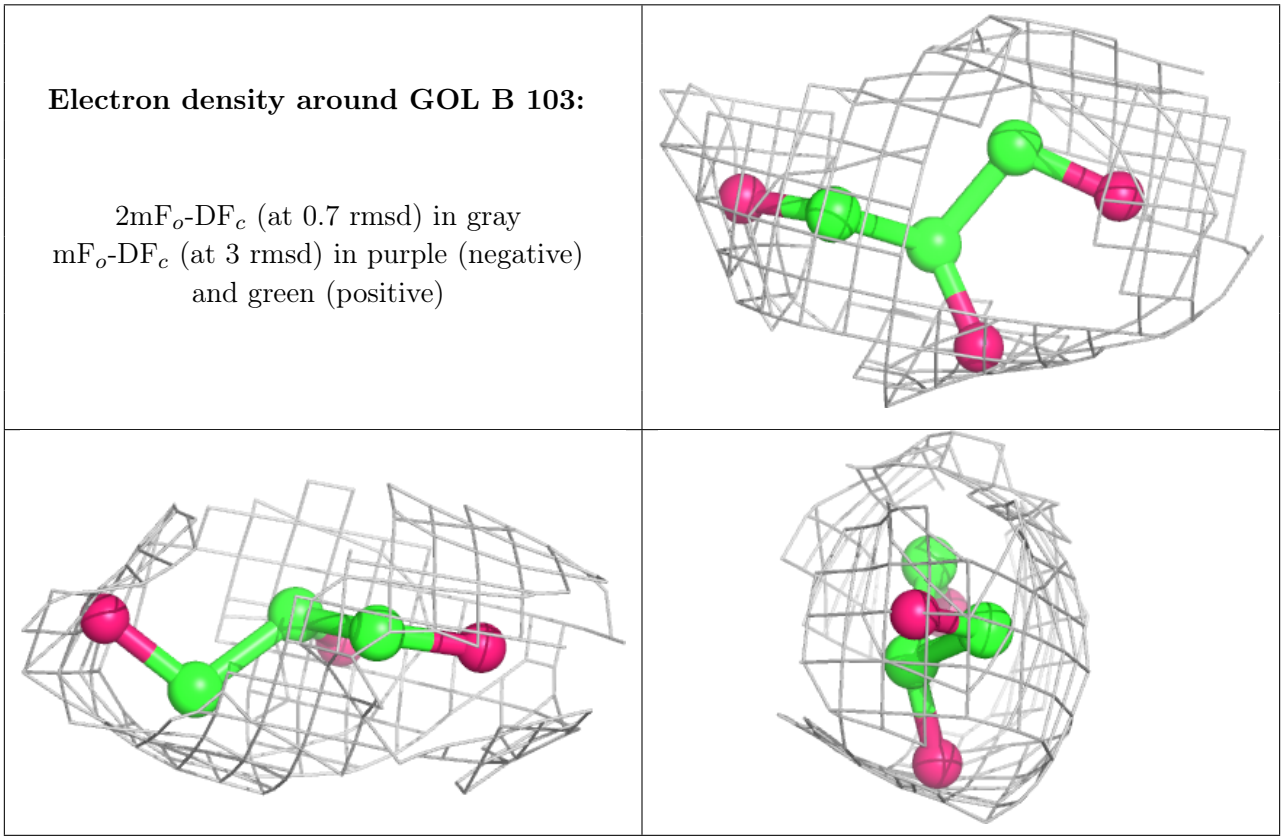
Electron density around GOL C 311:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



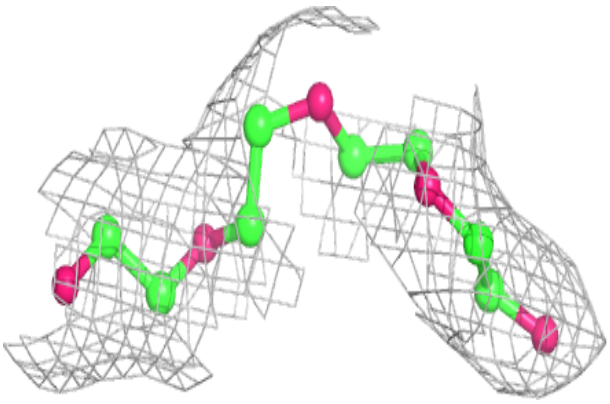
Electron density around GOL B 103:

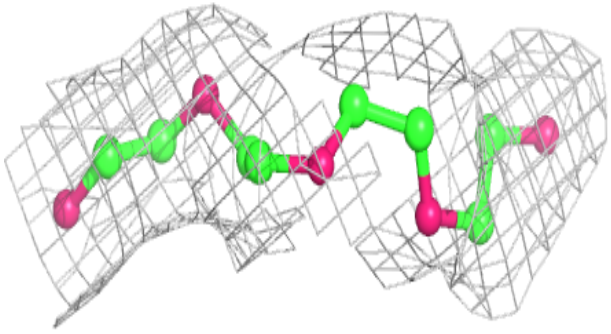
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

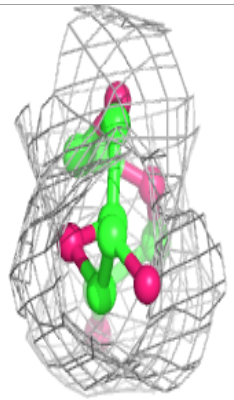


Electron density around PG4 C 323:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

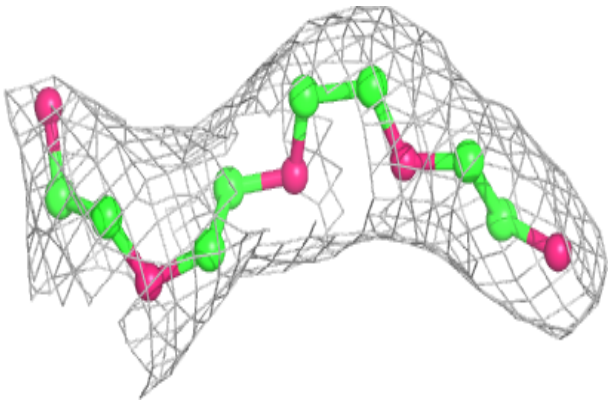


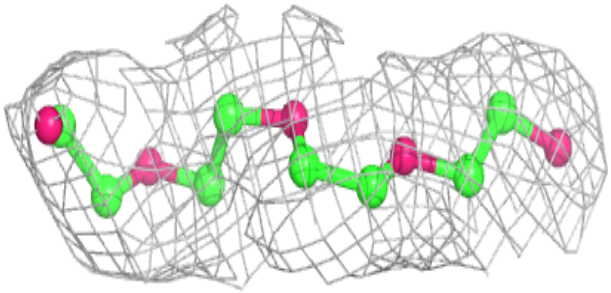


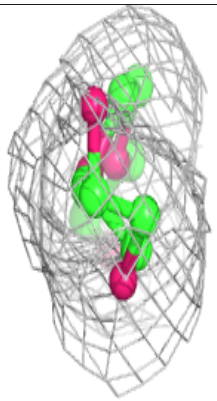


Electron density around PG4 A 319:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

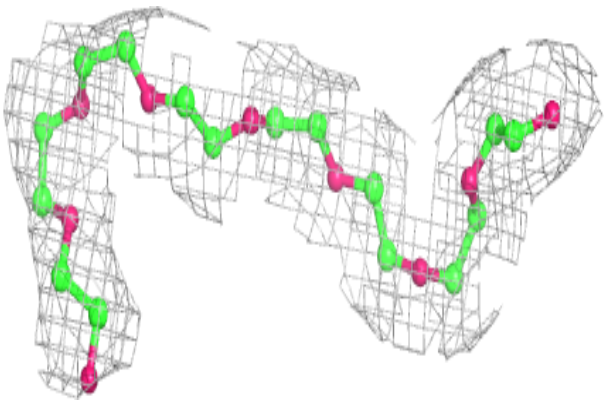


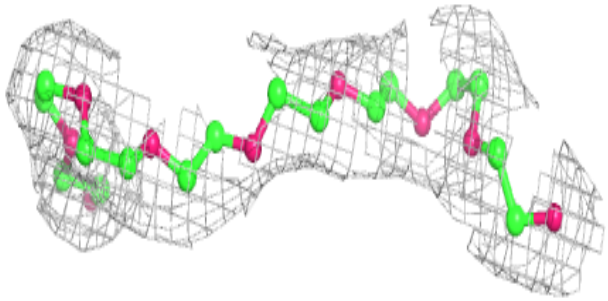


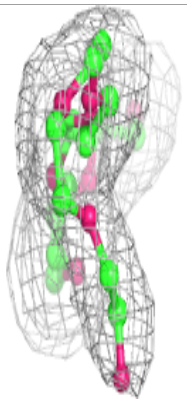


Electron density around PE8 C 335:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

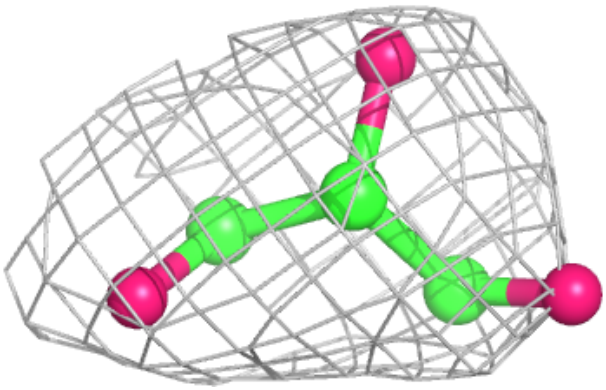


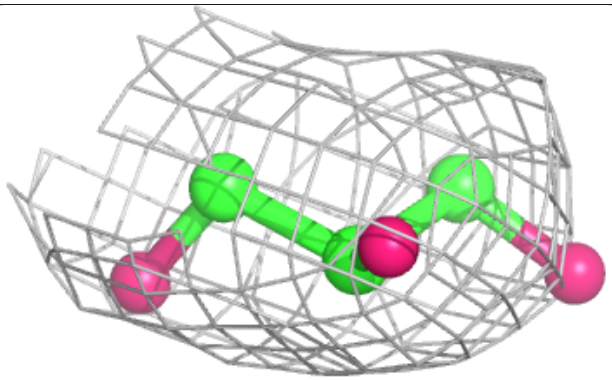


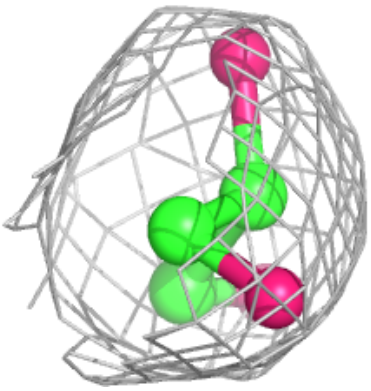


Electron density around GOL B 104:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

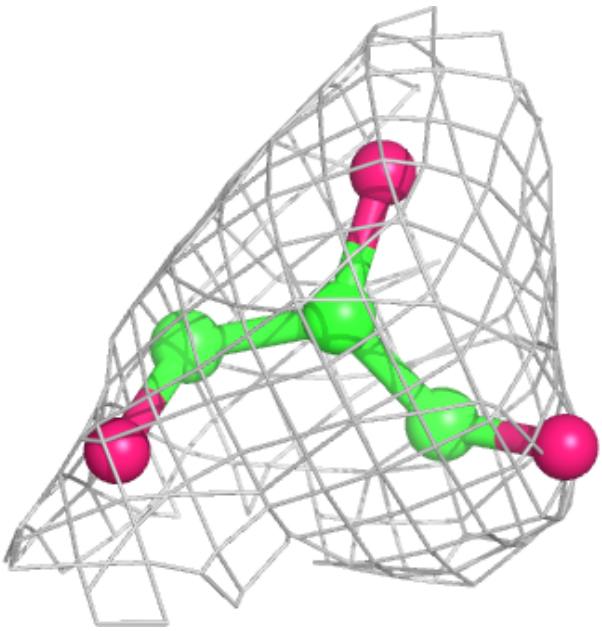


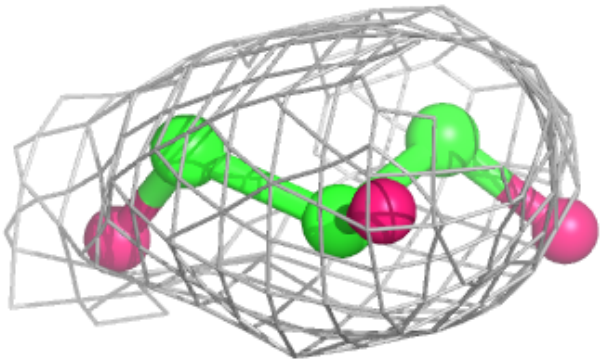


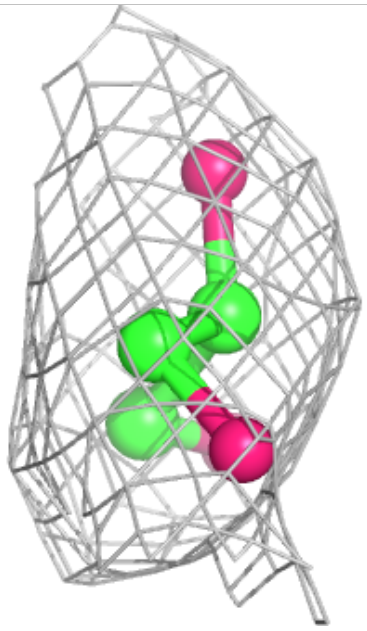


Electron density around GOL A 302:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

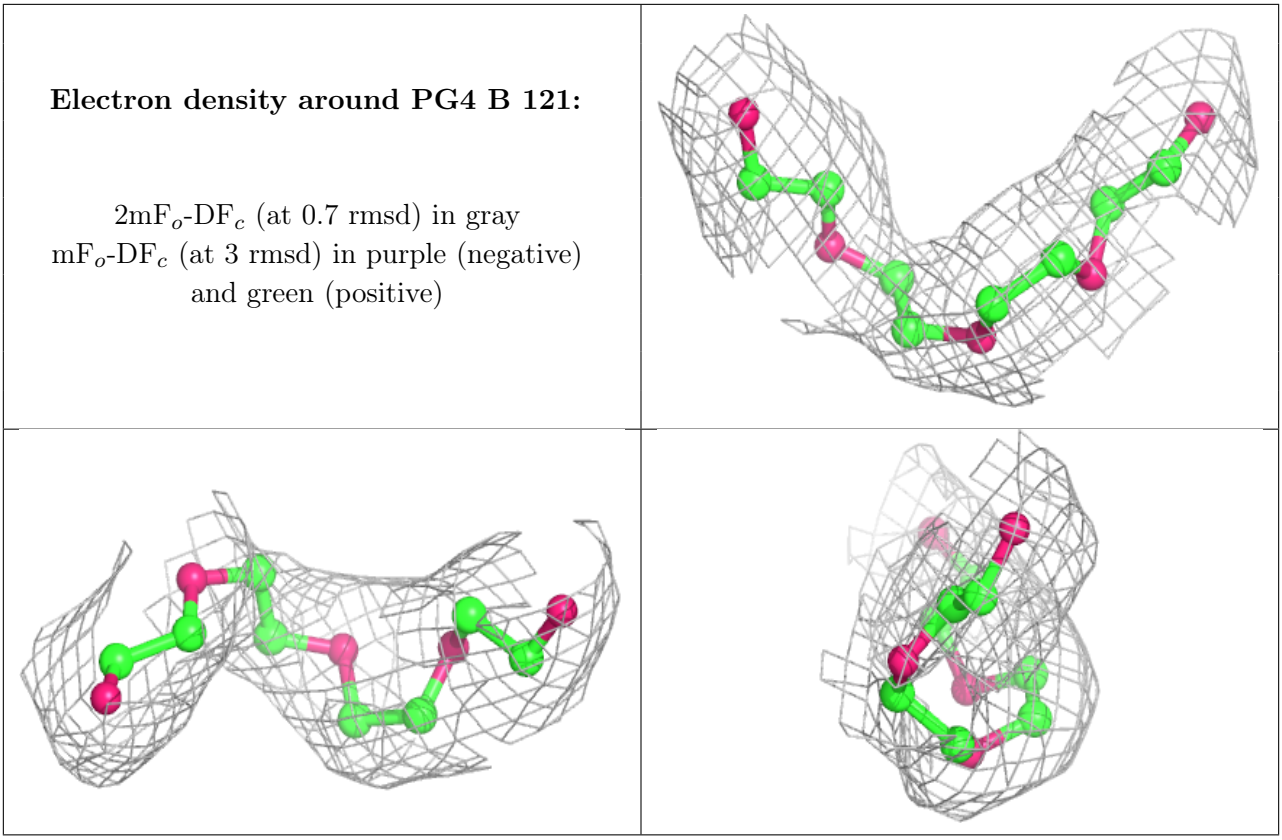






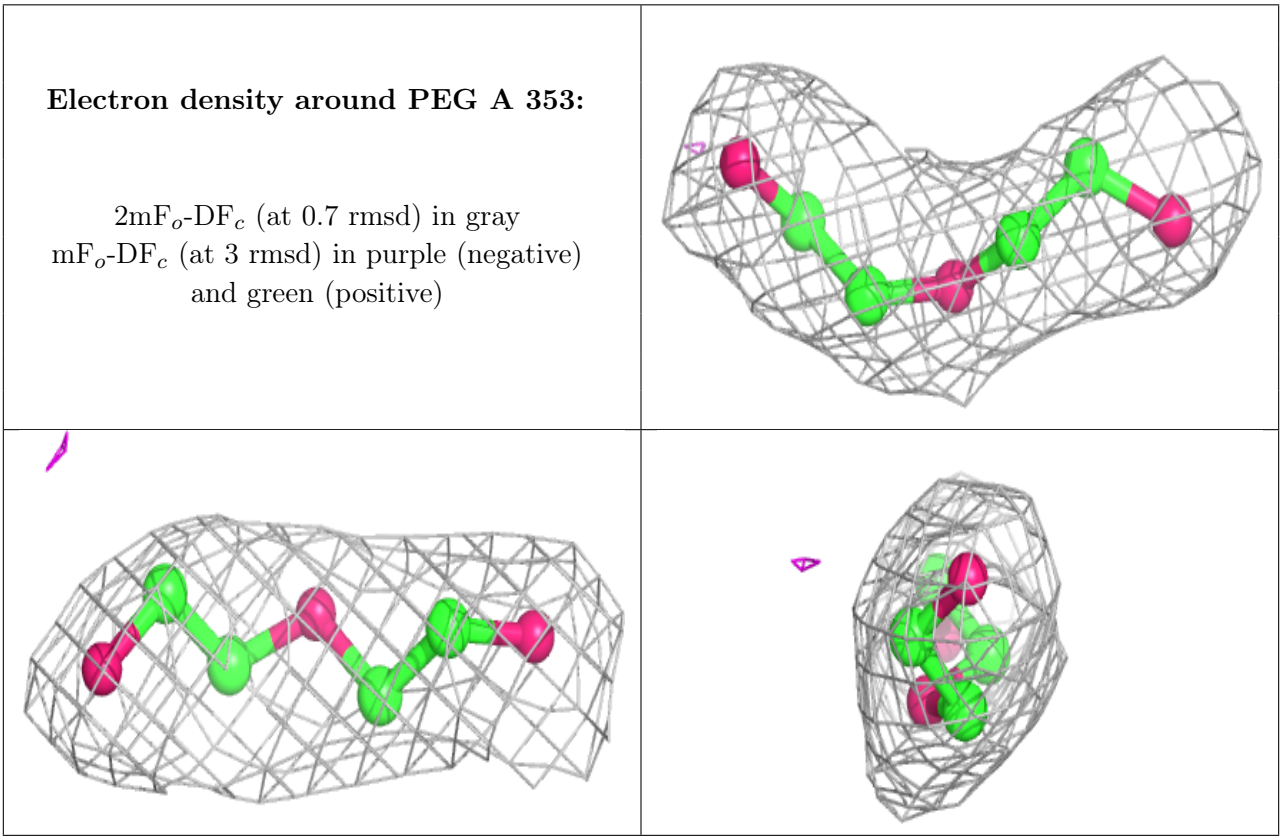
Electron density around PG4 B 121:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



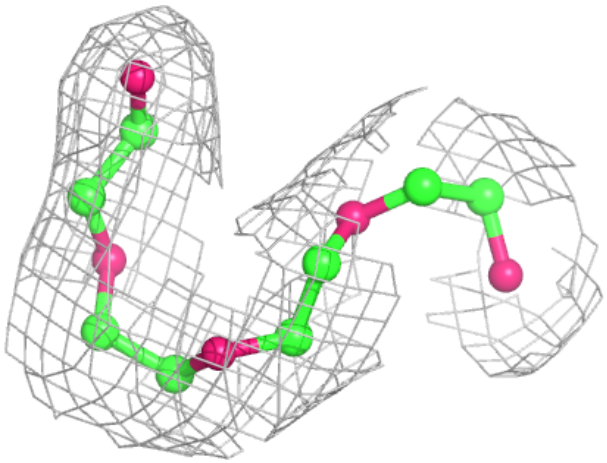
Electron density around PEG A 353:

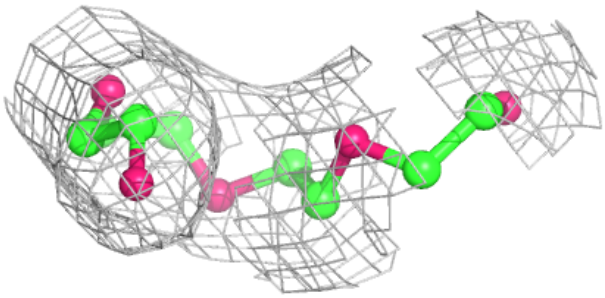
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

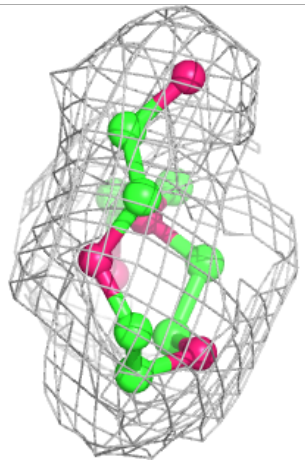


Electron density around PG4 B 123:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

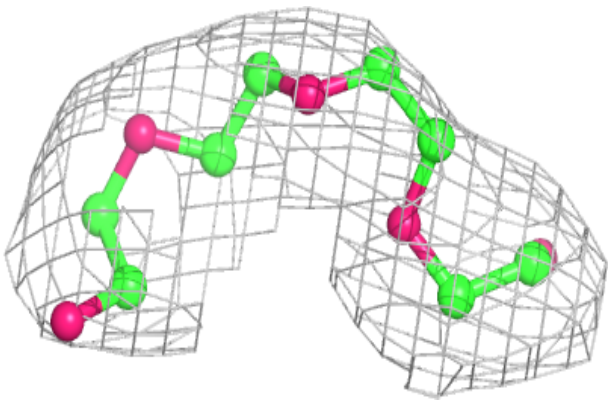


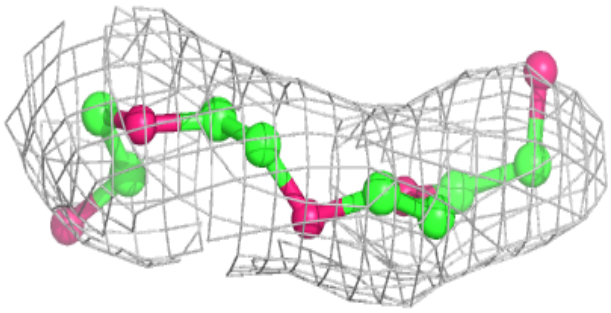


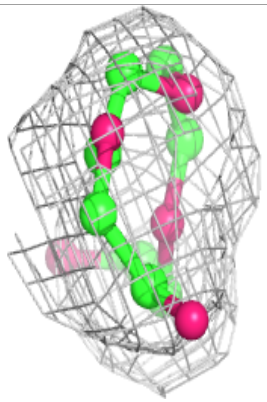


Electron density around PG4 B 125:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

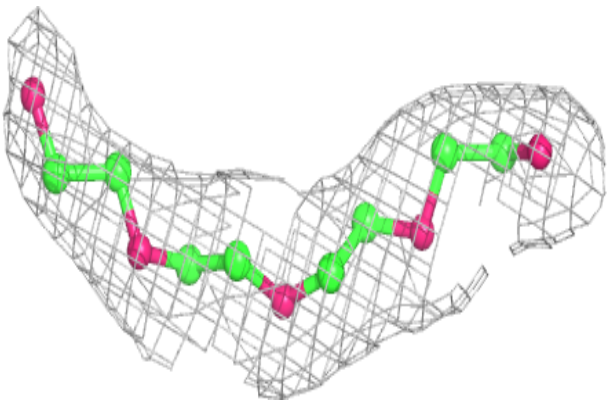


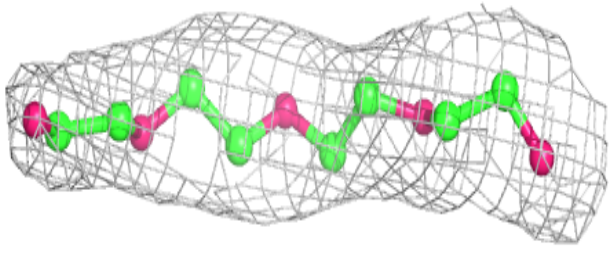


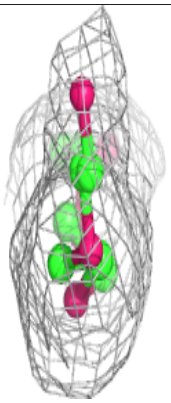


Electron density around PG4 B 117:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

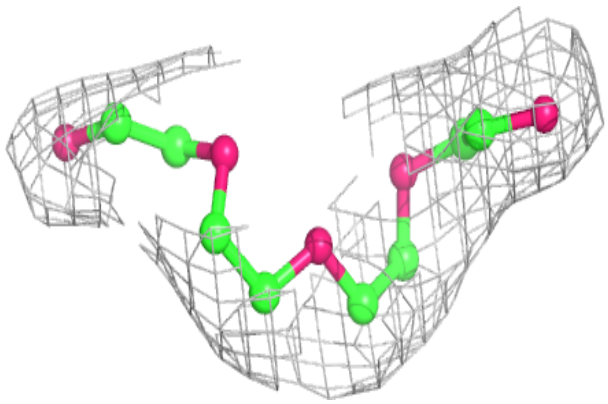


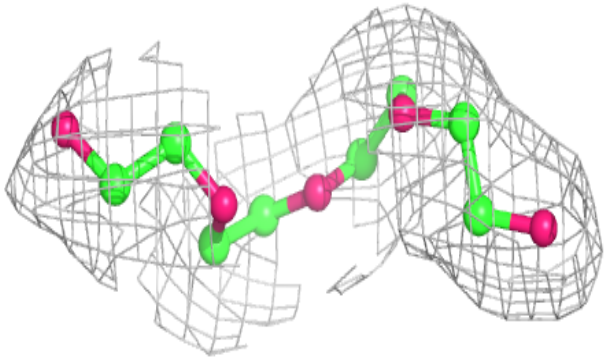


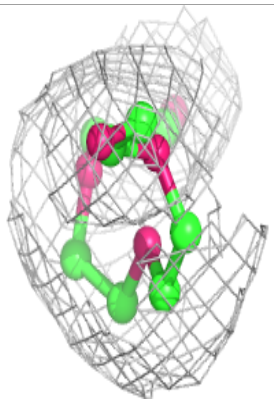


Electron density around PG4 A 367:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

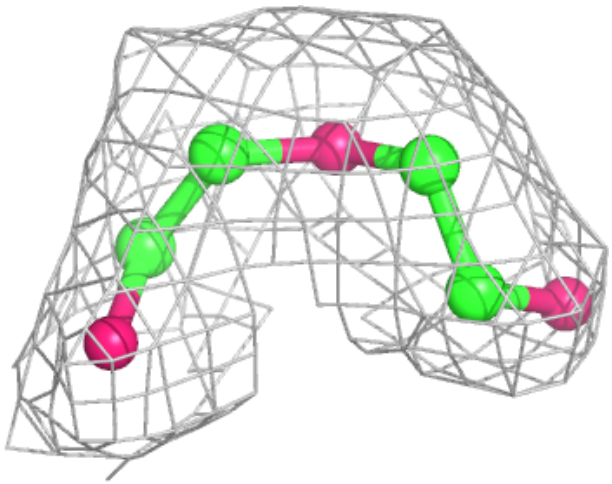


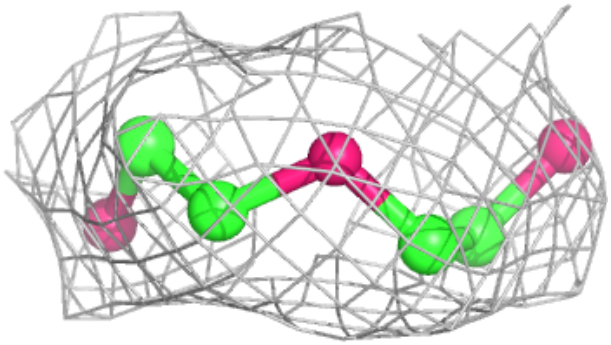


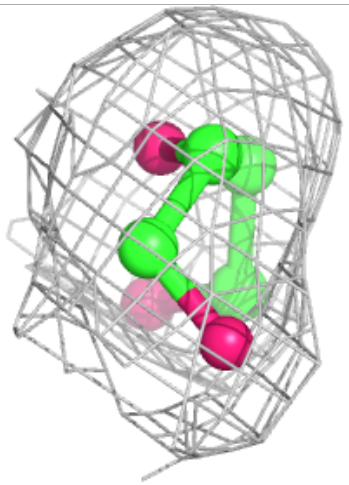


Electron density around PEG A 332:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

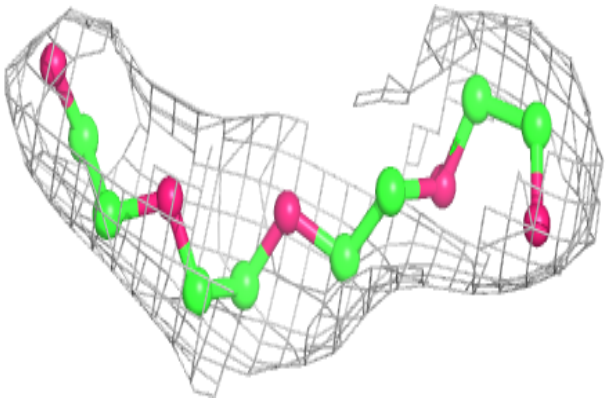


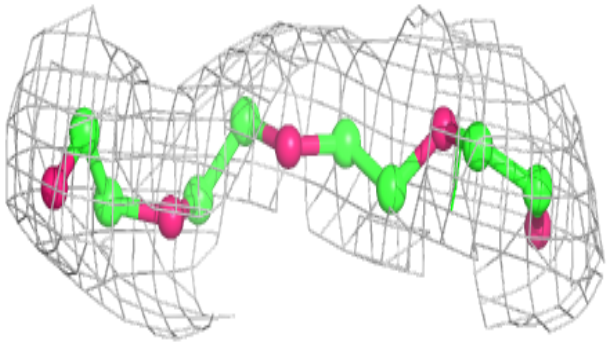


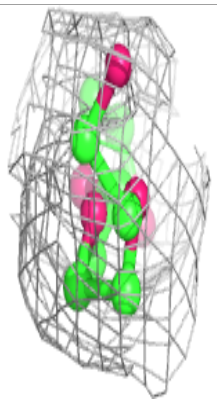


Electron density around PG4 B 119:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

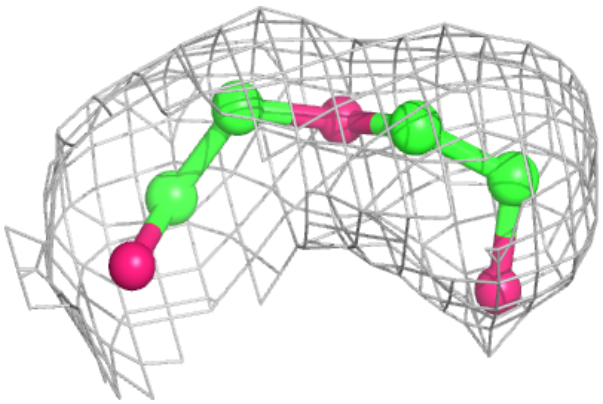


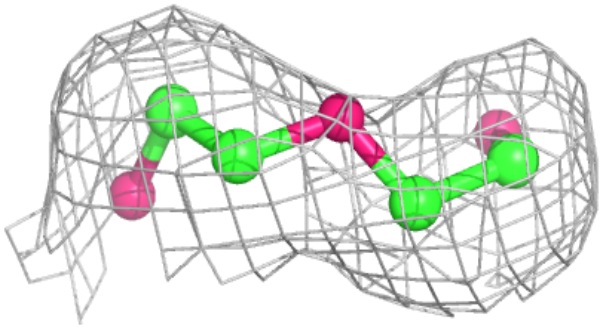


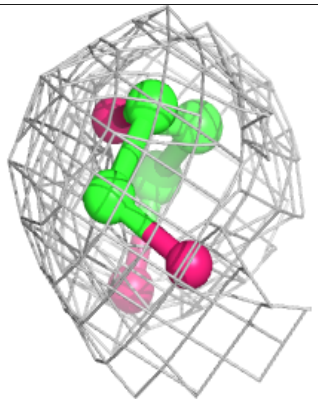


Electron density around PEG A 334:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

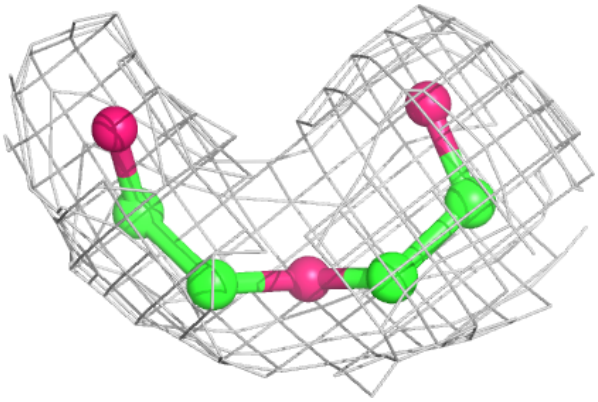


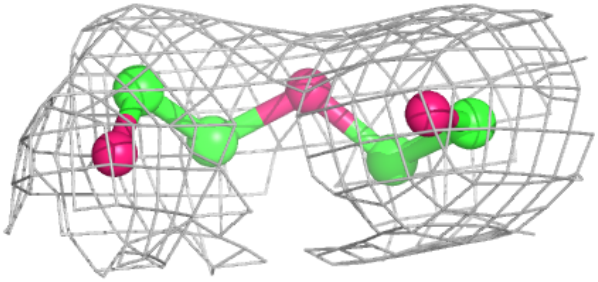


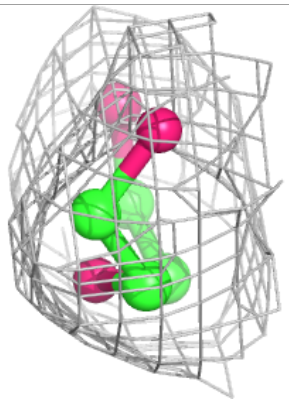


Electron density around PEG C 303:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

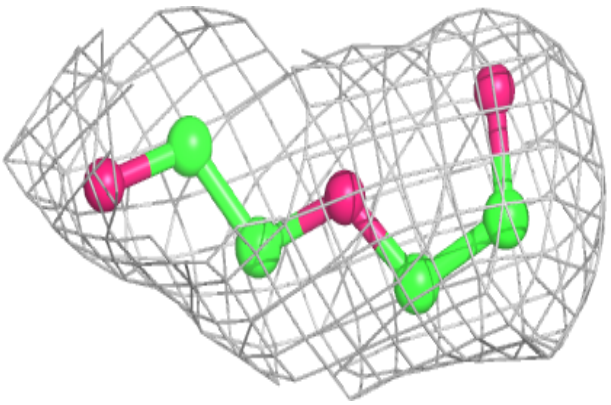


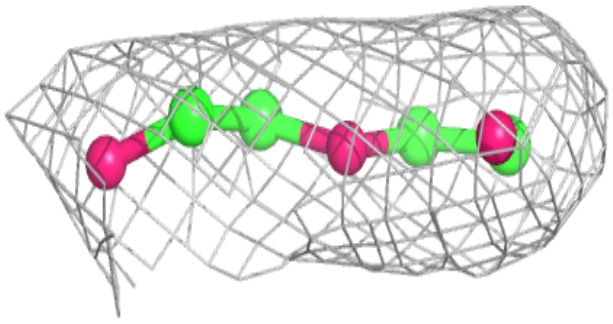


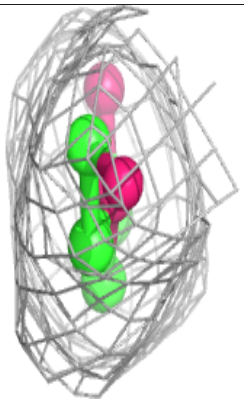


Electron density around PEG C 327:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

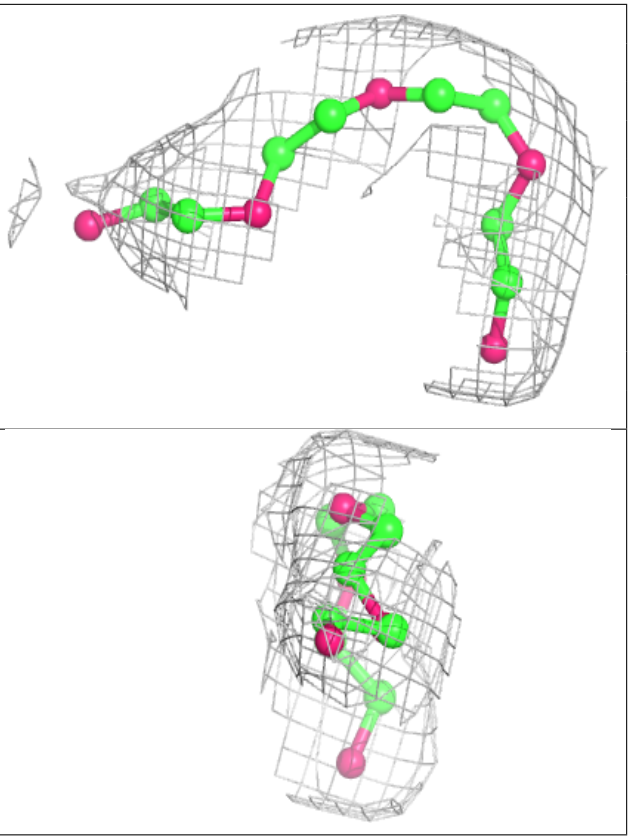


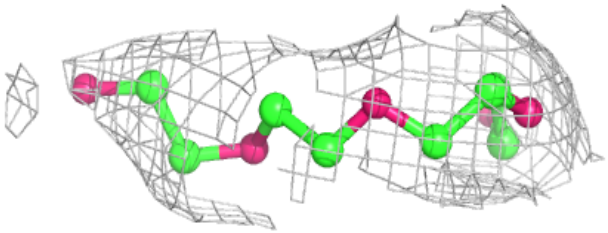




Electron density around PG4 B 122:

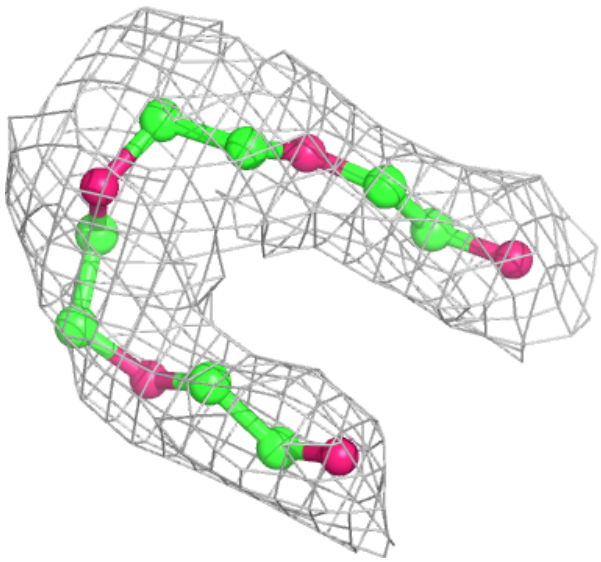
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

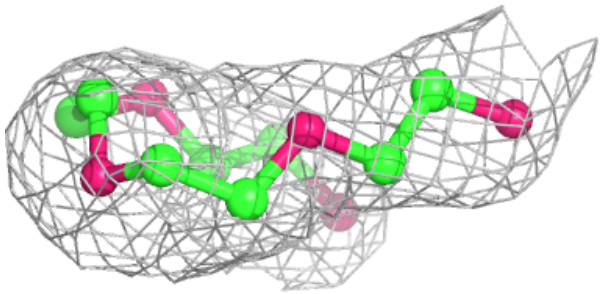


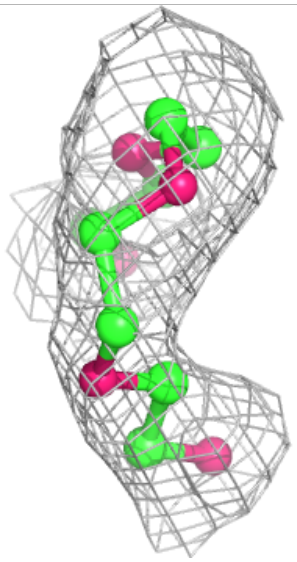


Electron density around PG4 E 107:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

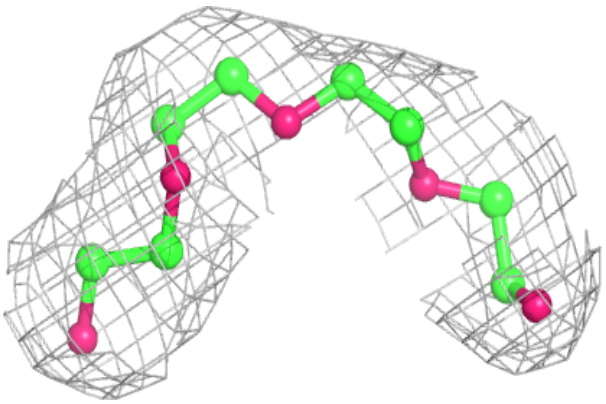


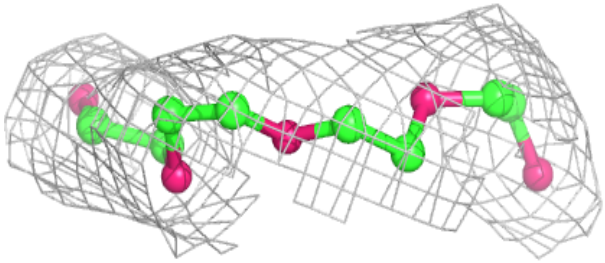


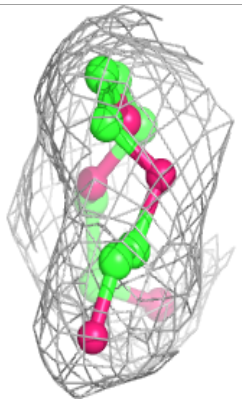


Electron density around PG4 B 124:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

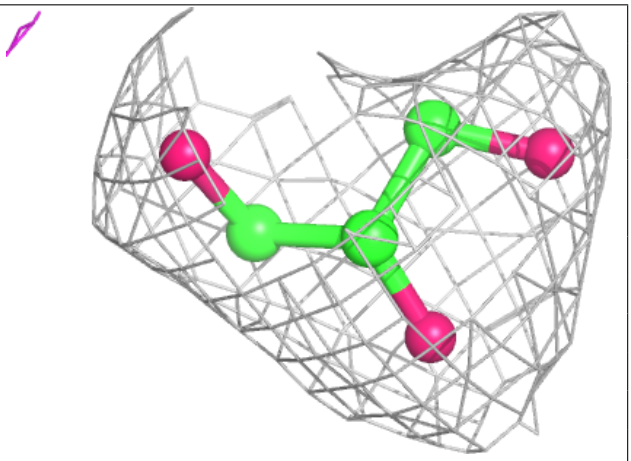


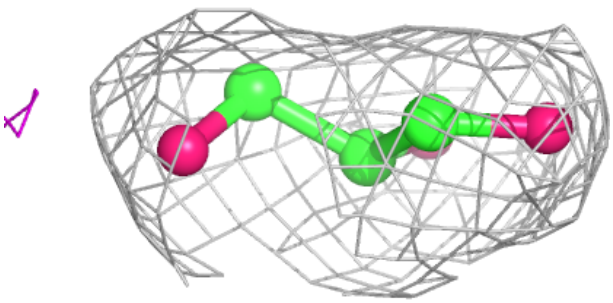


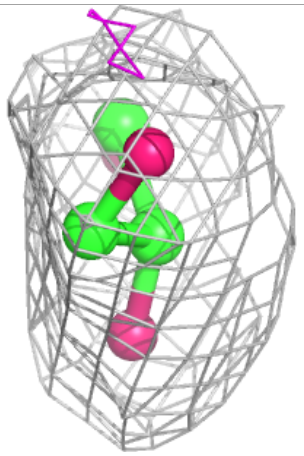


Electron density around GOL D 109:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

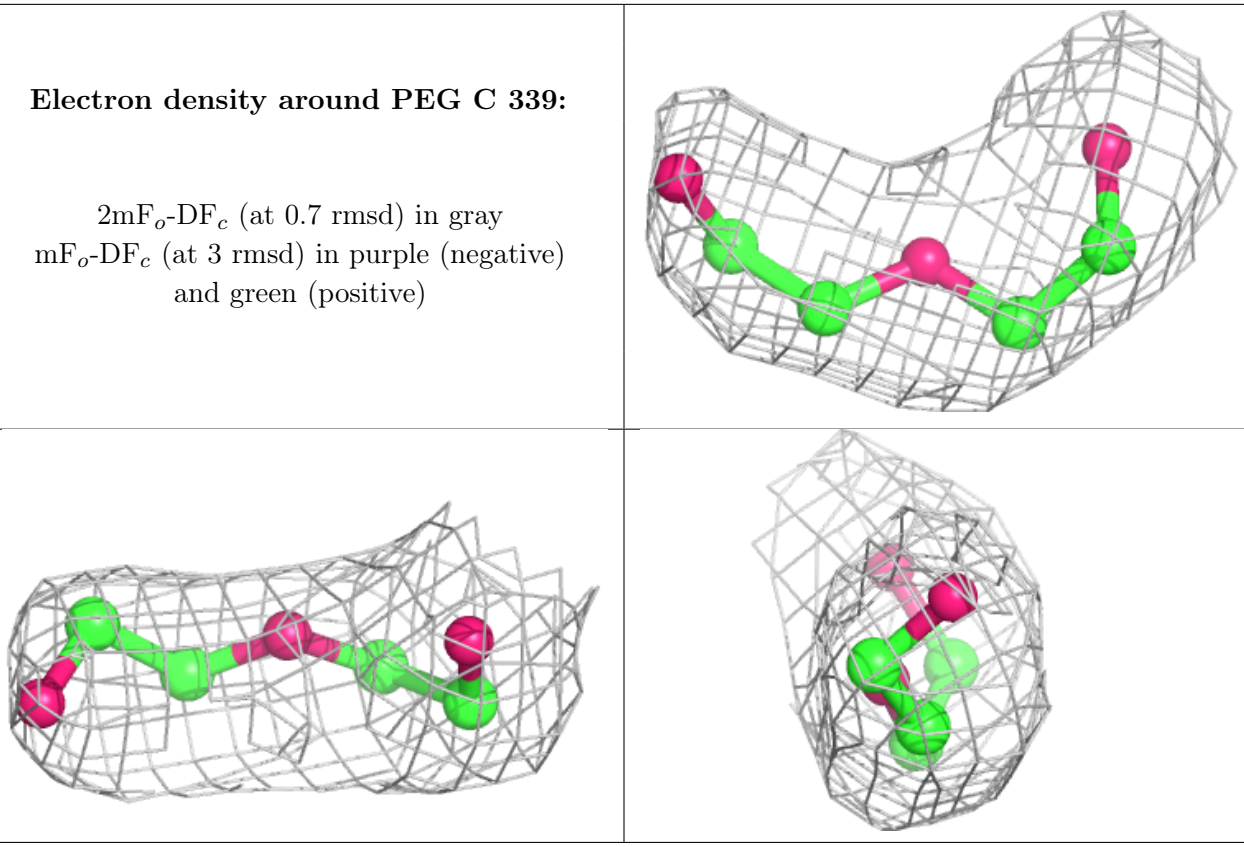






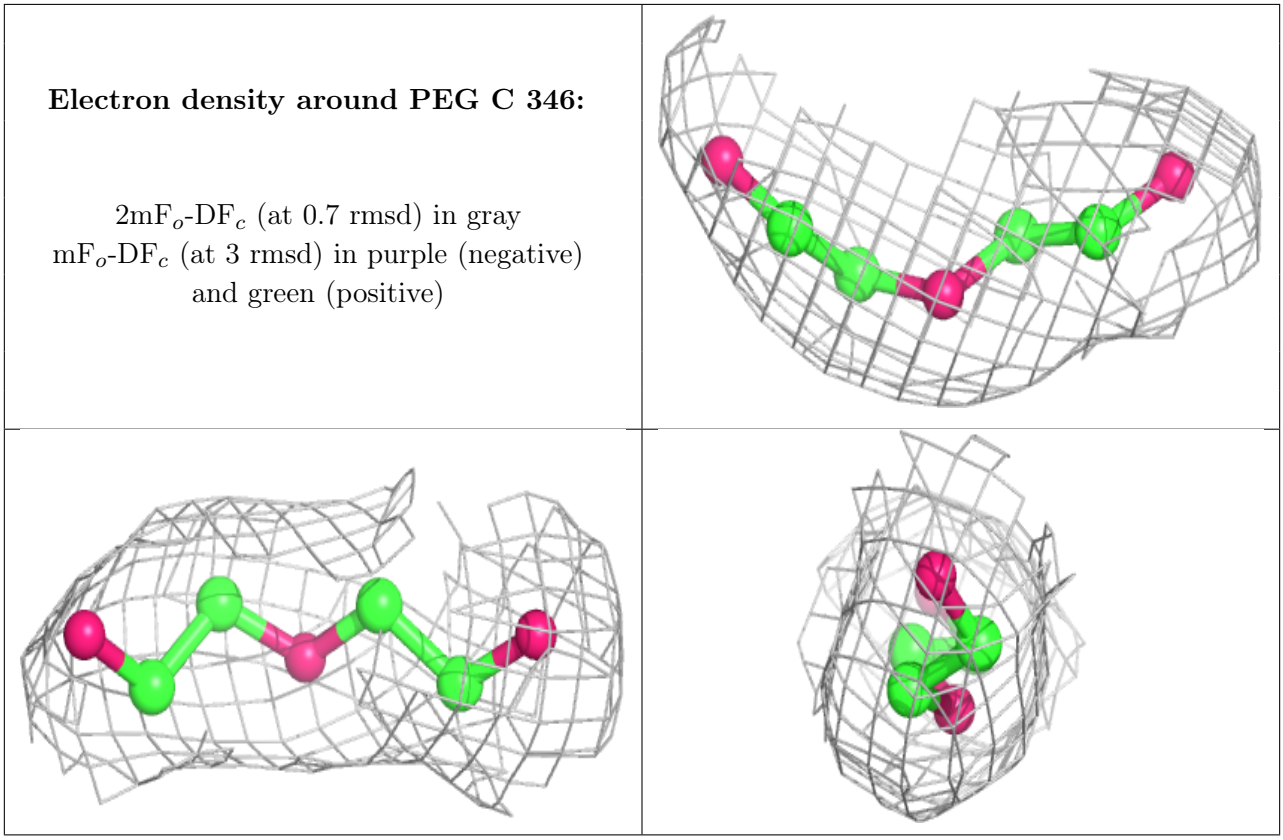
Electron density around PEG C 339:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



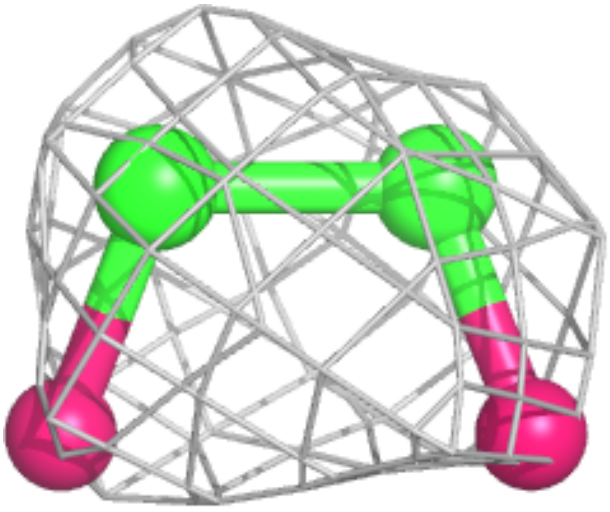
Electron density around PEG C 346:

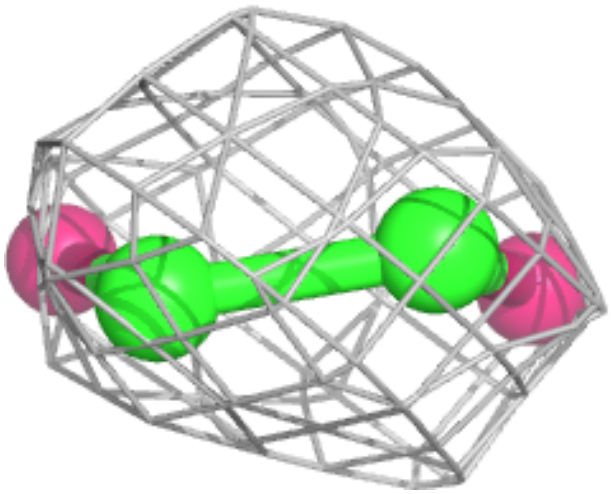
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

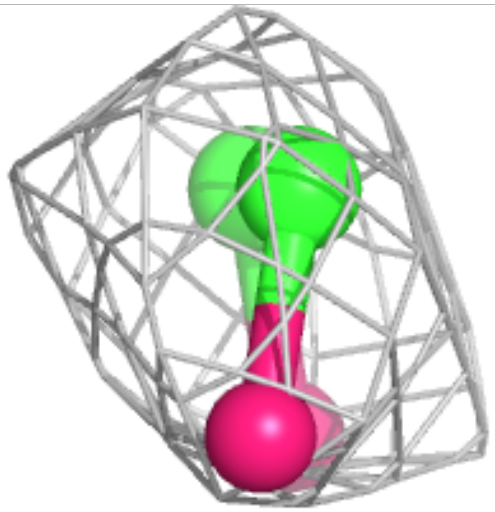


Electron density around EDO B 144:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

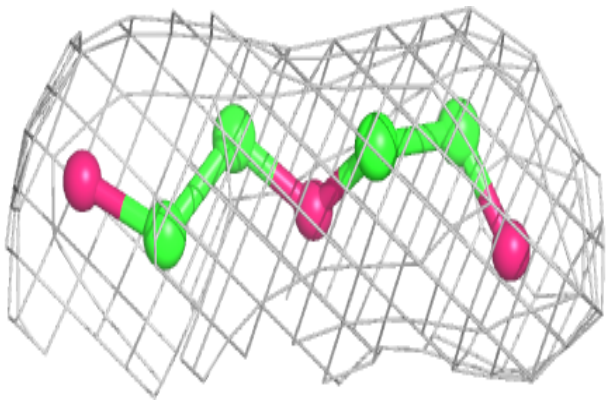


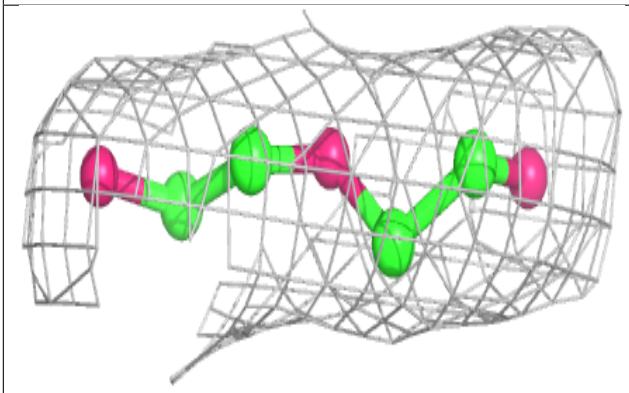


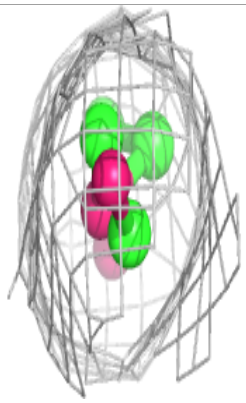


Electron density around PEG A 372:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

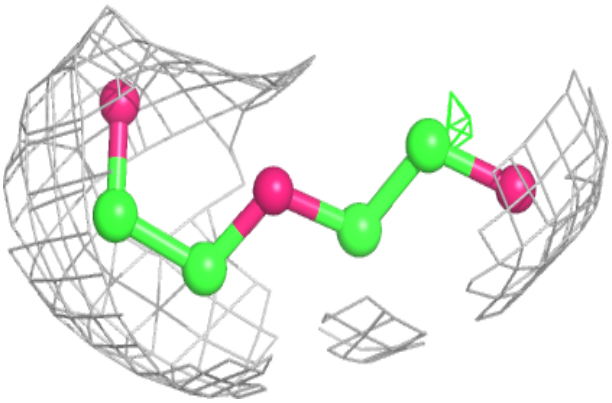


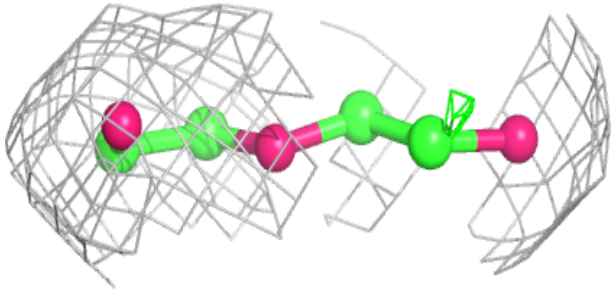


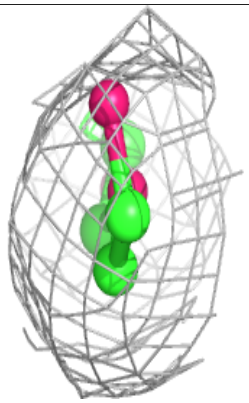


Electron density around PEG B 126:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

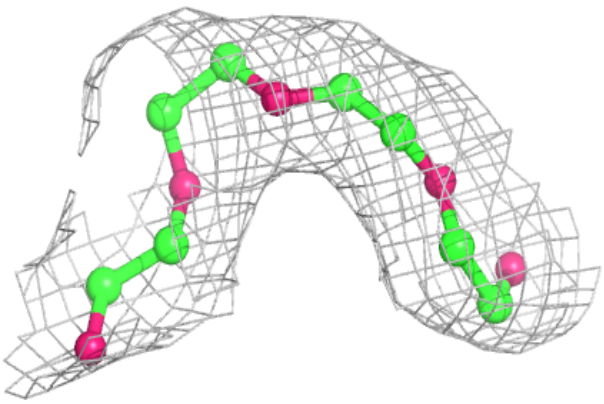


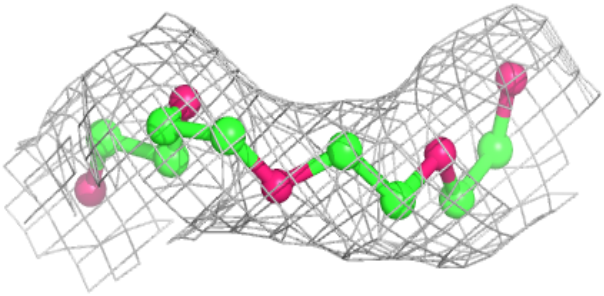


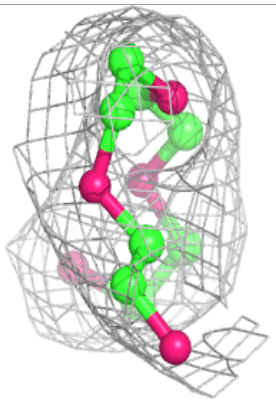


Electron density around PG4 B 155:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

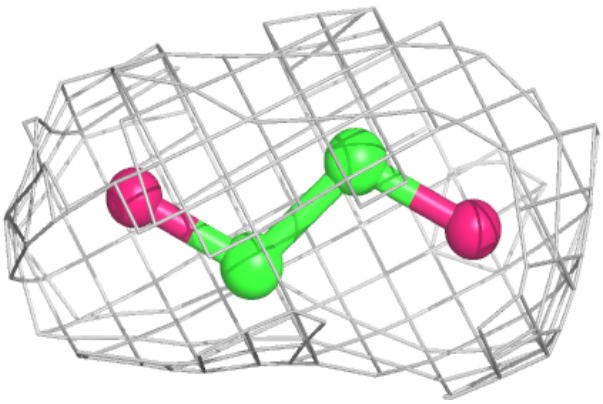


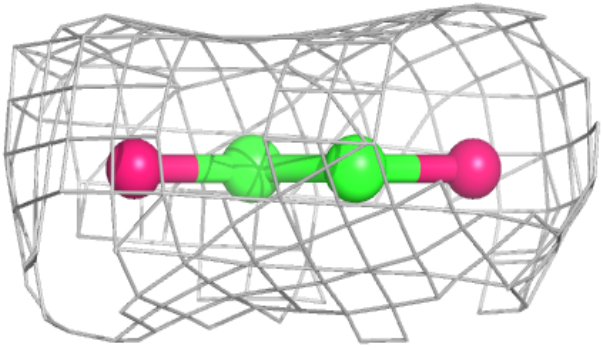


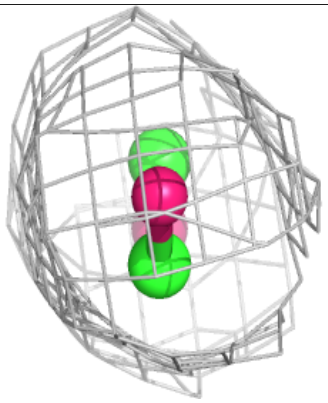


Electron density around EDO E 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

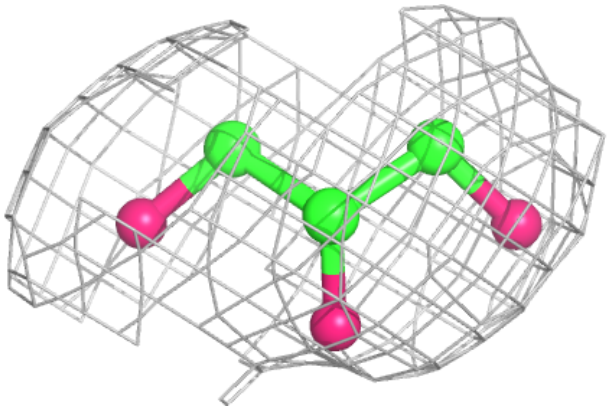


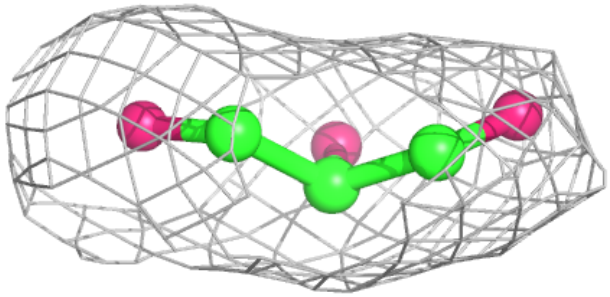


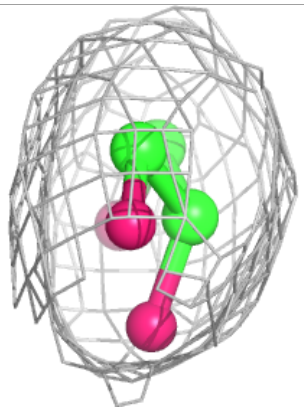


Electron density around GOL D 112:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

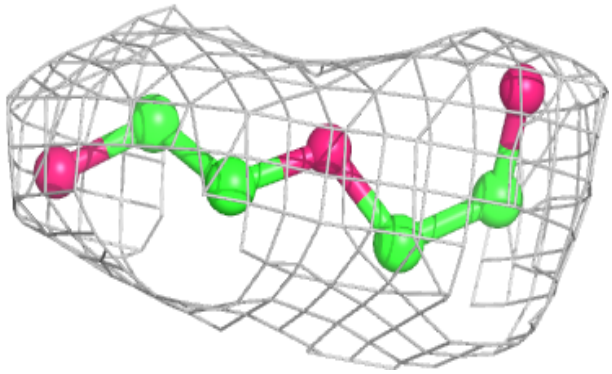


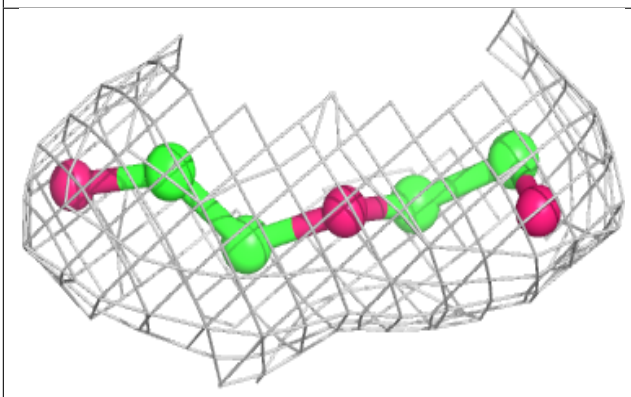


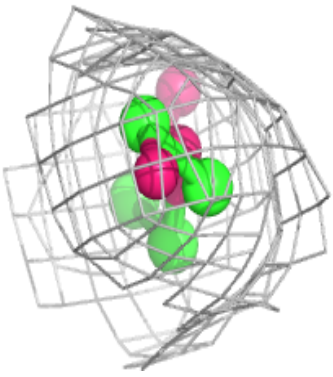


Electron density around PEG A 336:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

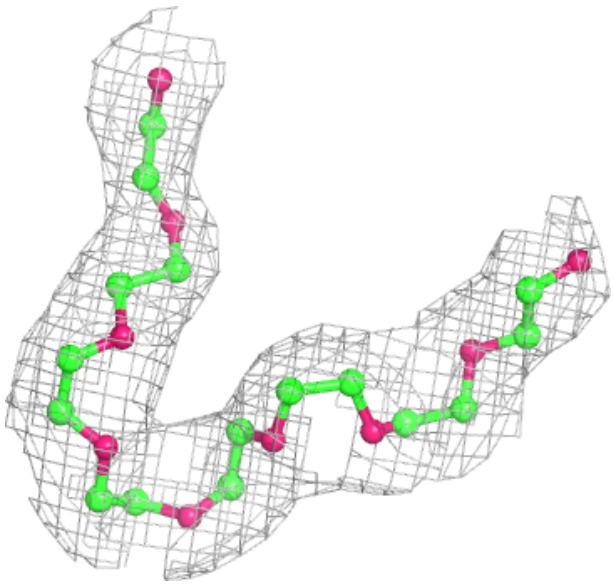


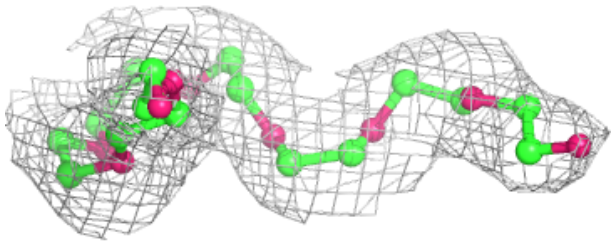


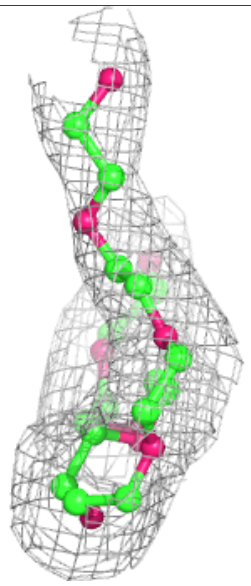


Electron density around PE8 B 137:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

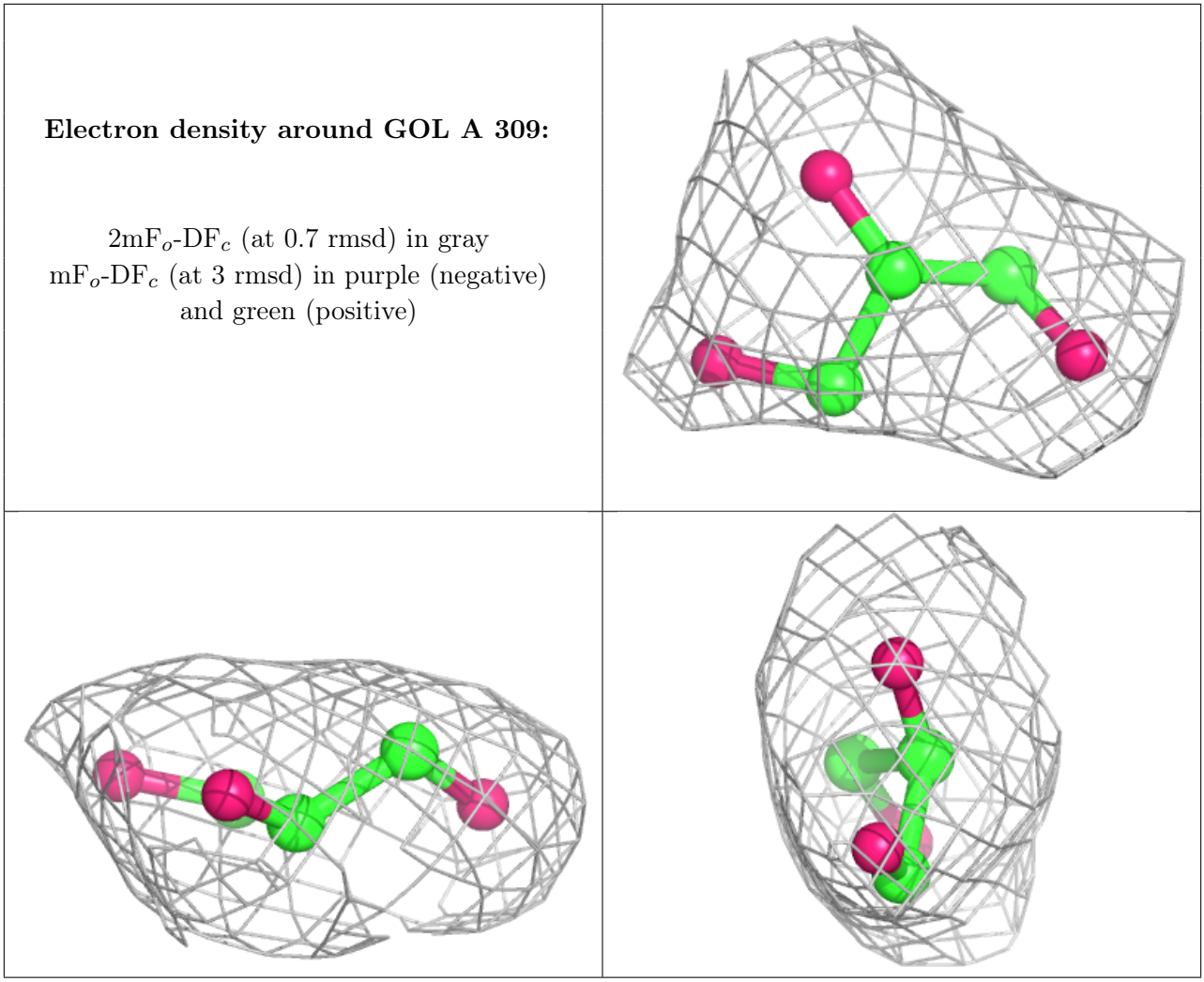






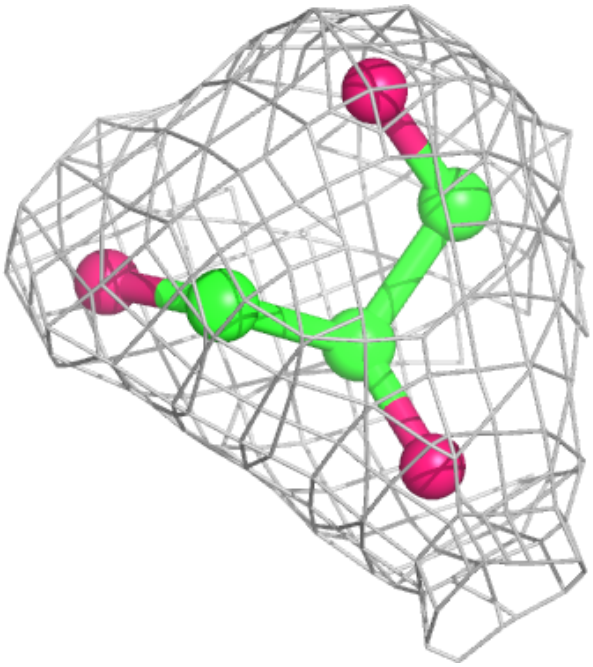
Electron density around GOL A 309:

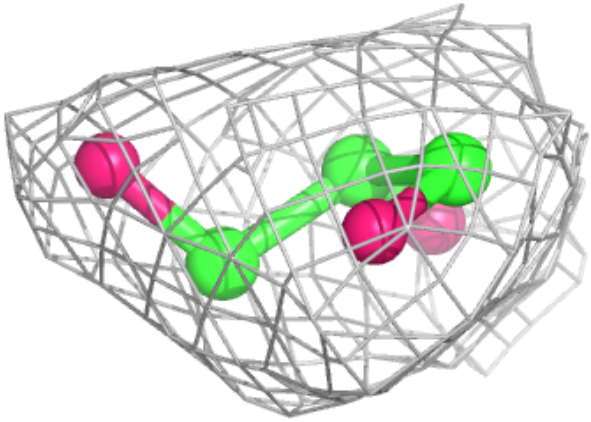
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

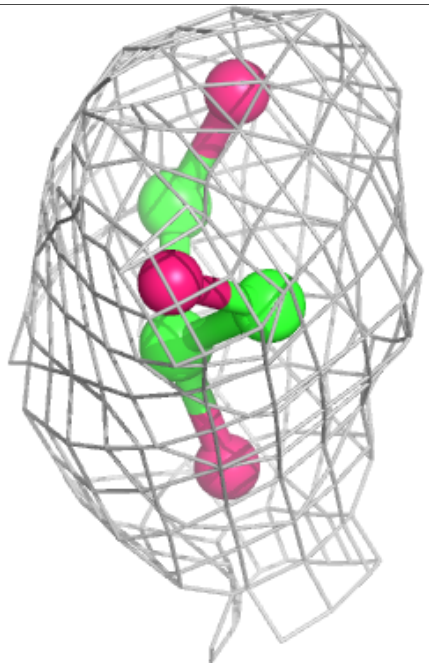


Electron density around GOL B 111:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

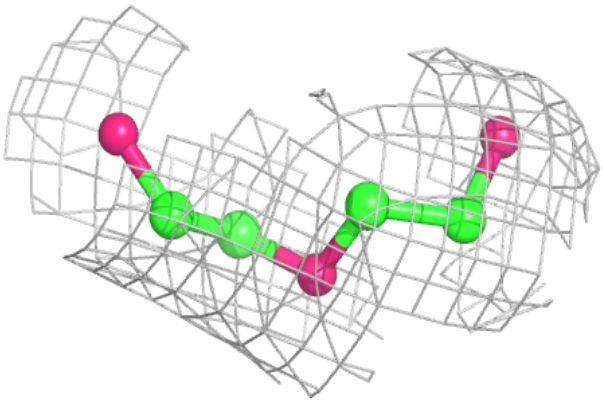


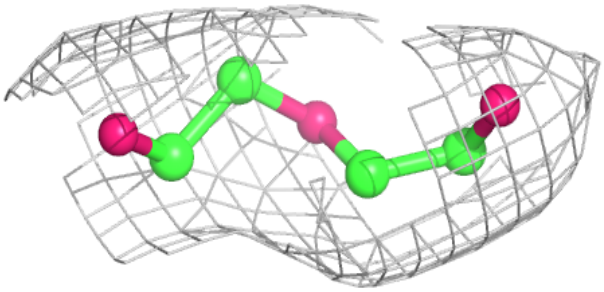


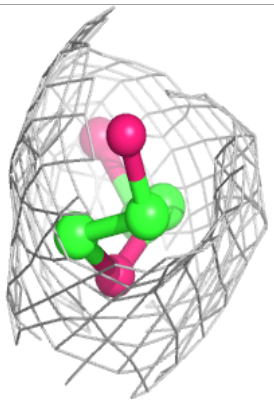


Electron density around PEG B 139:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

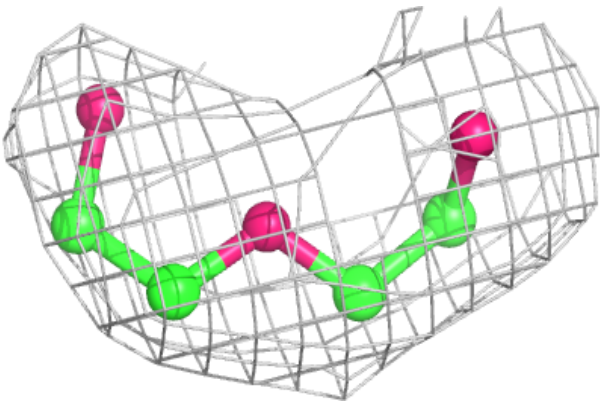


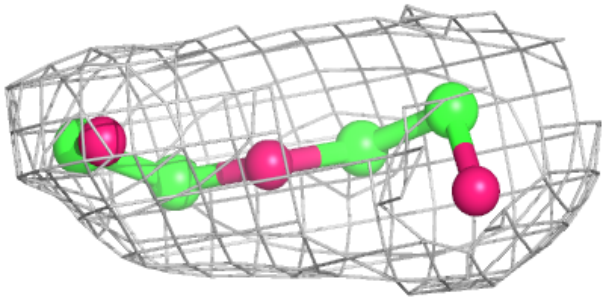


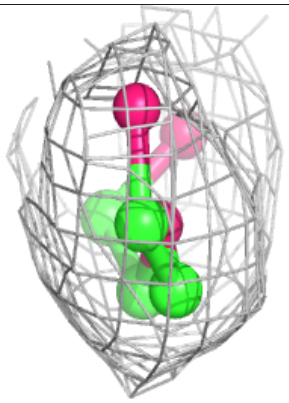


Electron density around PEG B 142:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

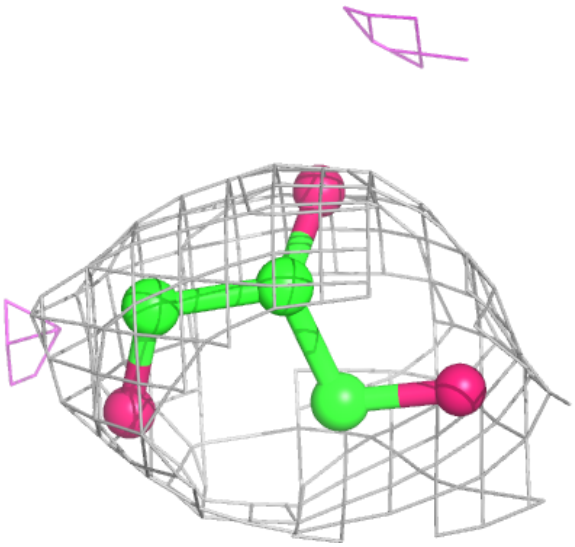


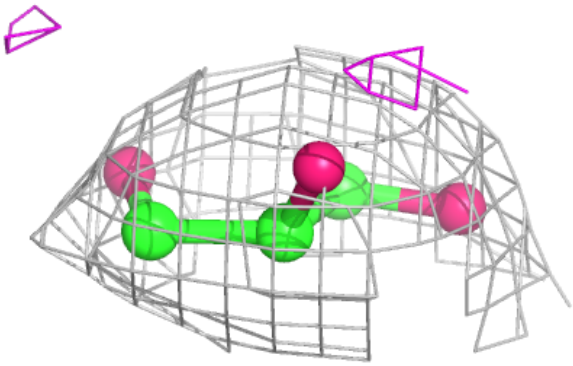


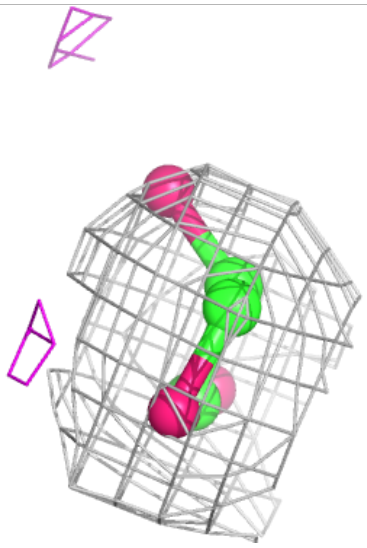


Electron density around GOL A 310:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

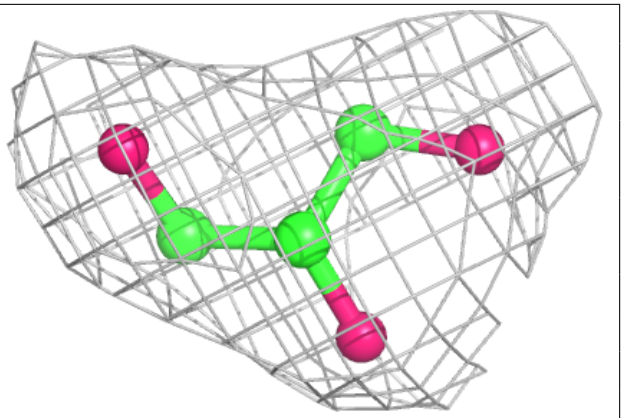


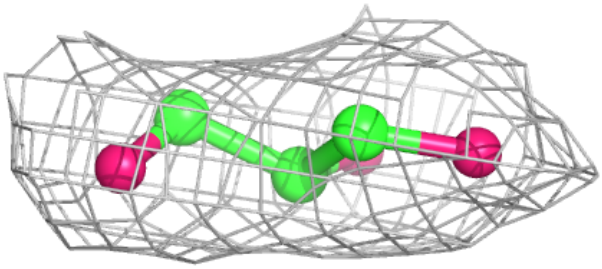


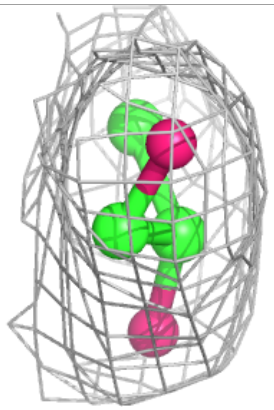


Electron density around GOL A 313:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

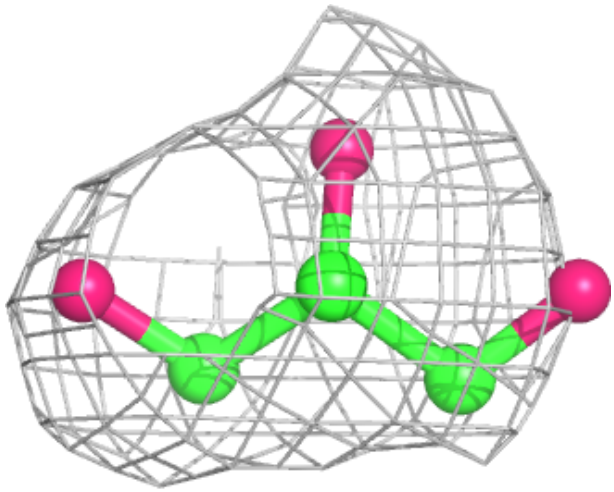


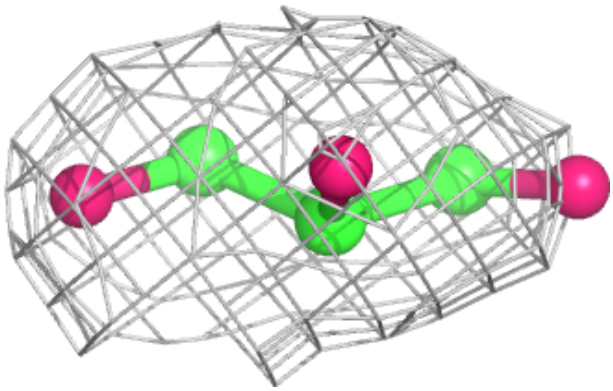


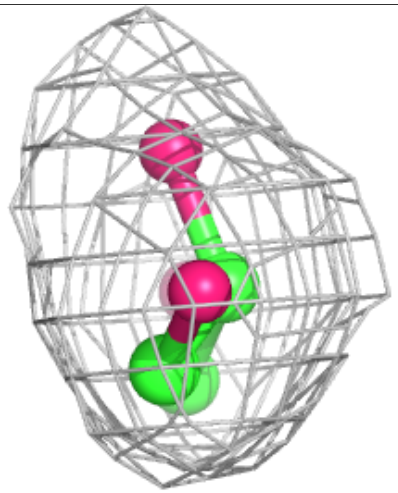


Electron density around GOL D 108:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

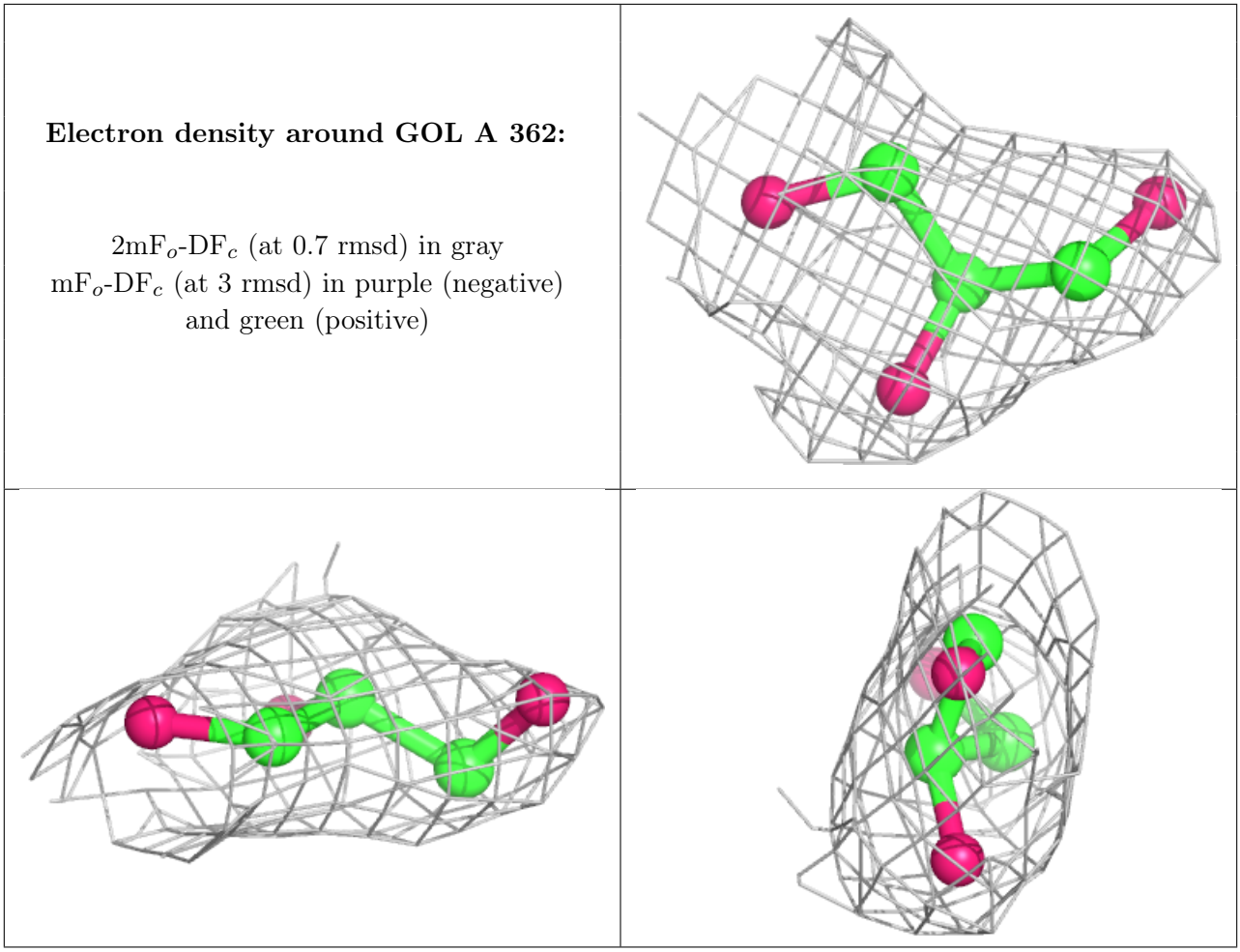






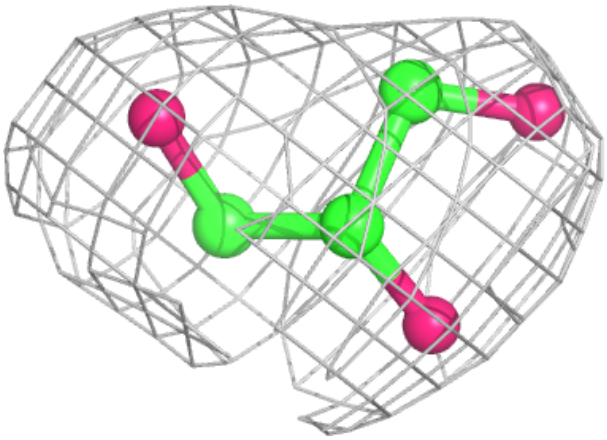
Electron density around GOL A 362:

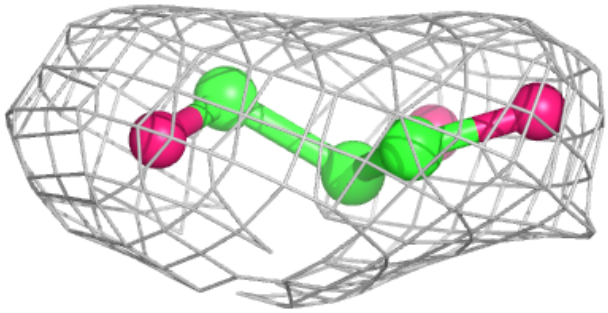
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

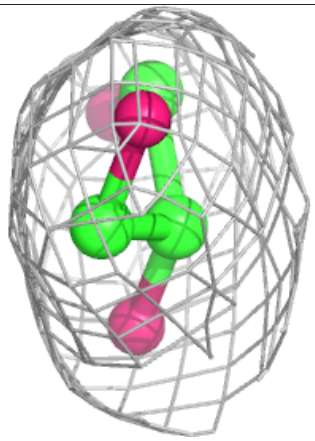


Electron density around GOL A 373:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

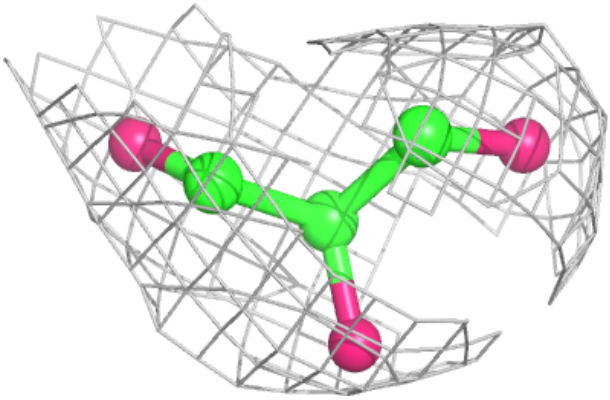


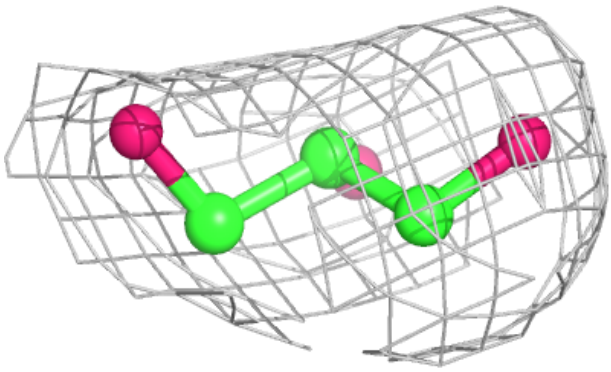


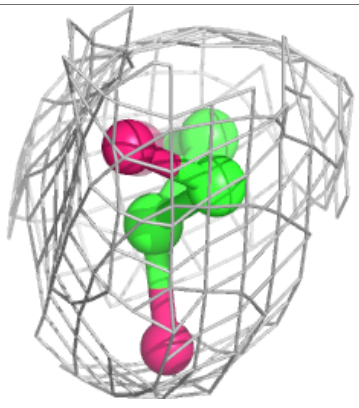


Electron density around GOL B 112:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

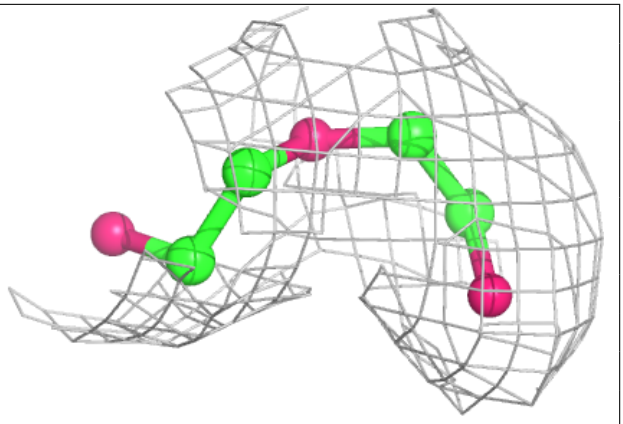


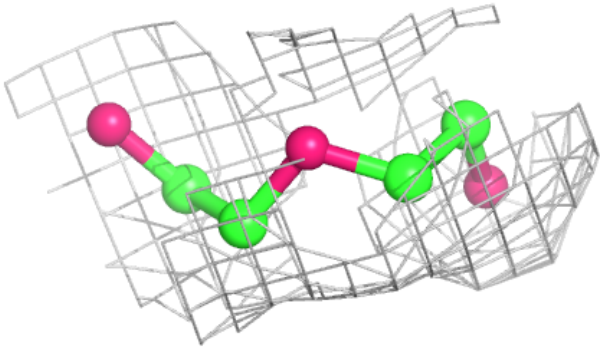


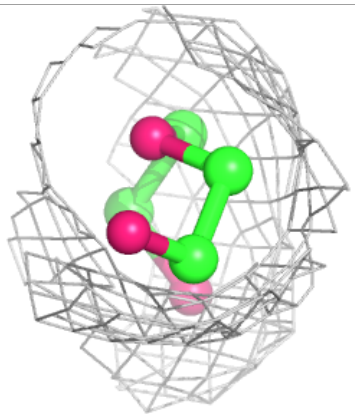


Electron density around PEG B 127:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

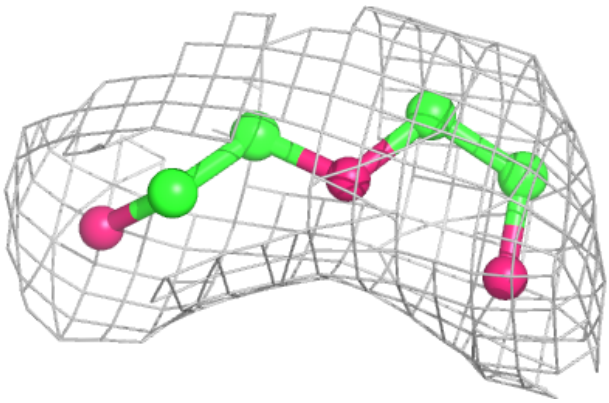


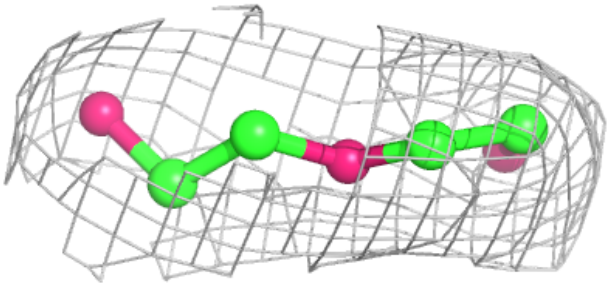


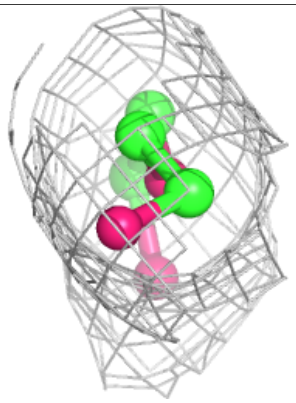


Electron density around PEG B 156:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

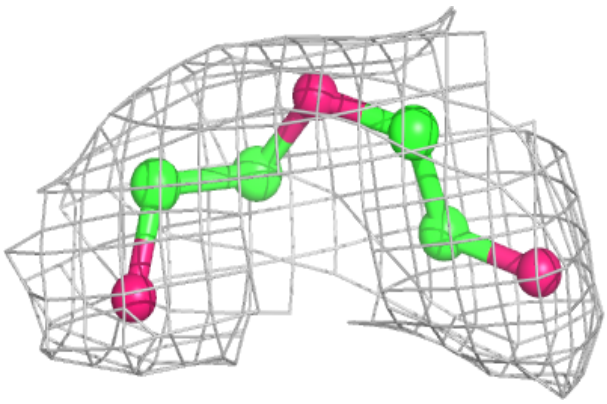


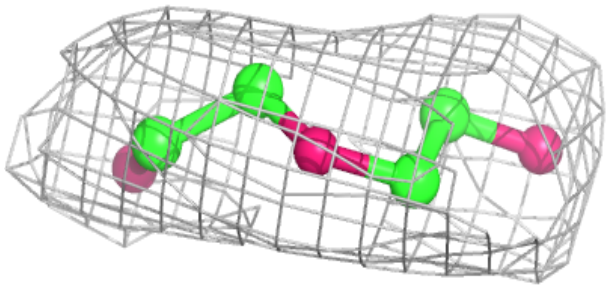


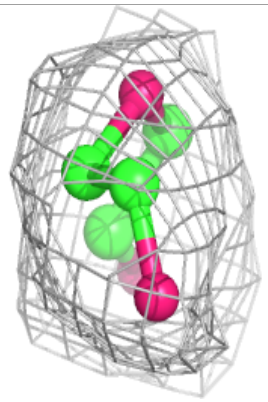


Electron density around PEG B 157:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

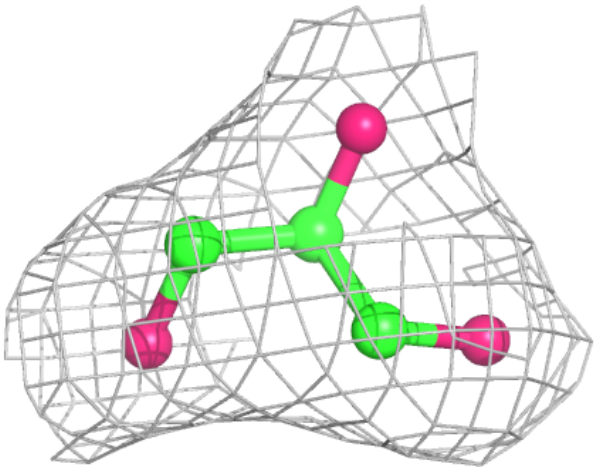


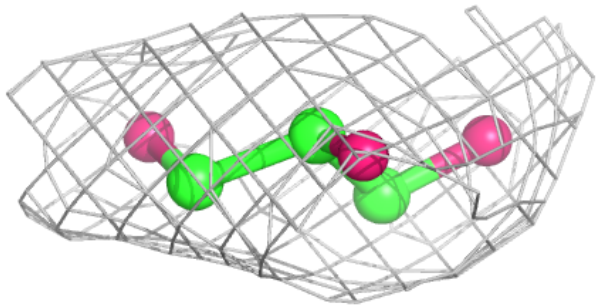


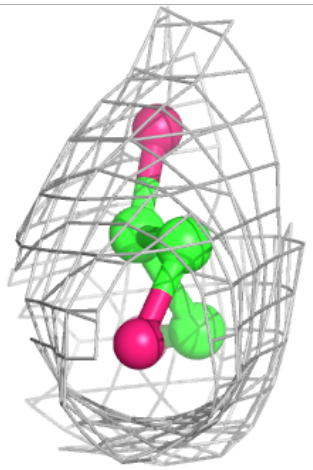


Electron density around GOL A 308:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

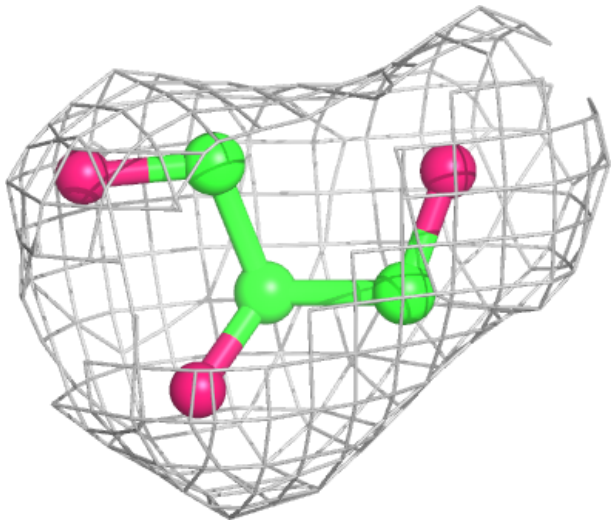


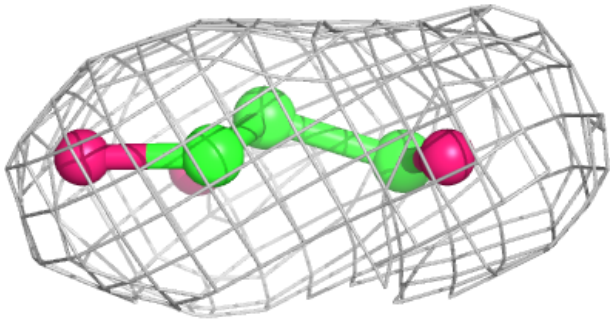


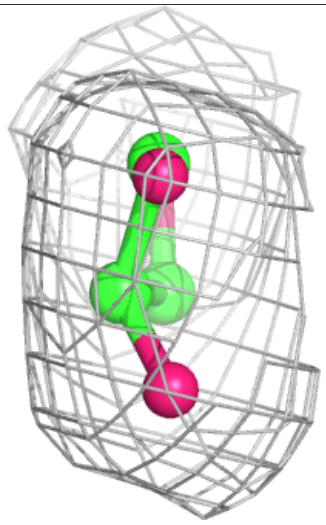


Electron density around GOL D 106:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

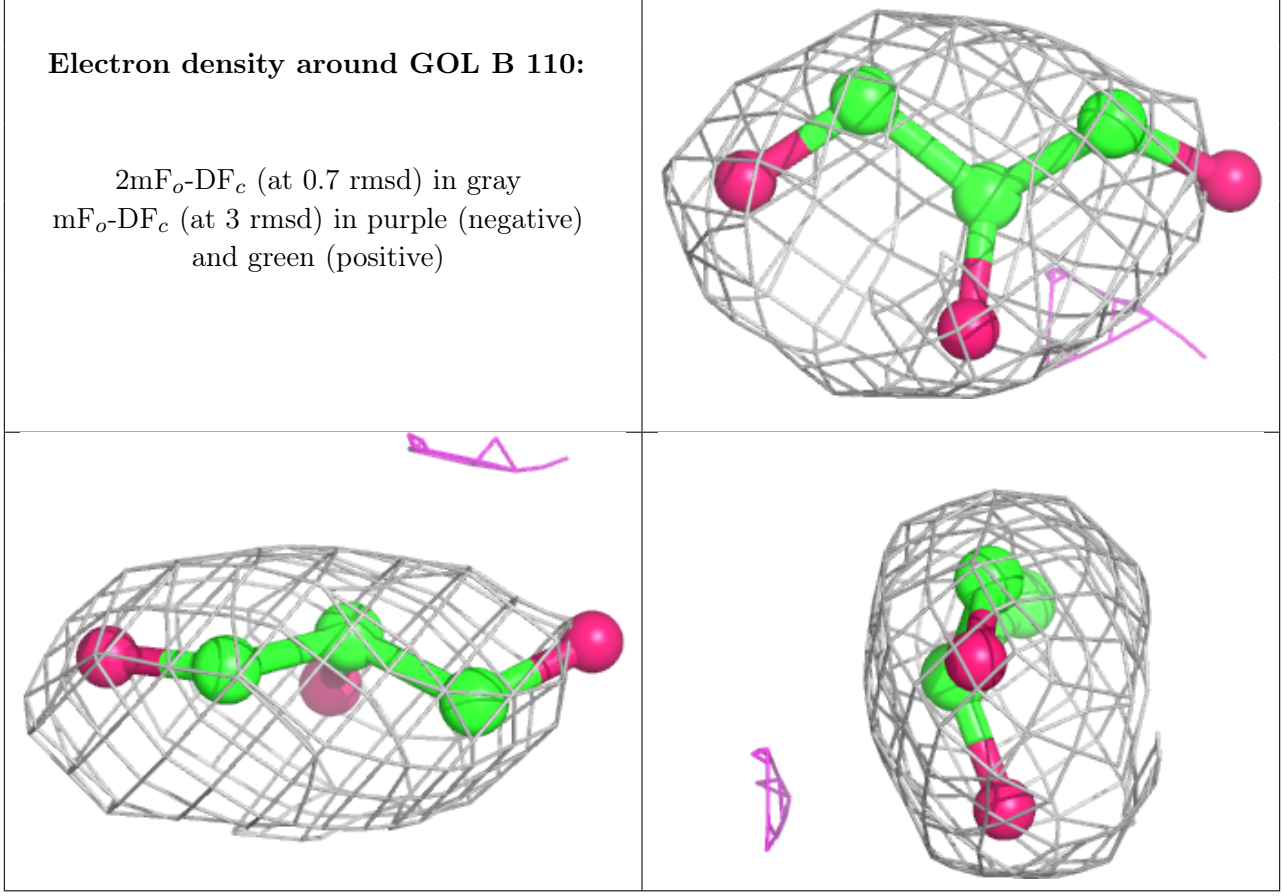






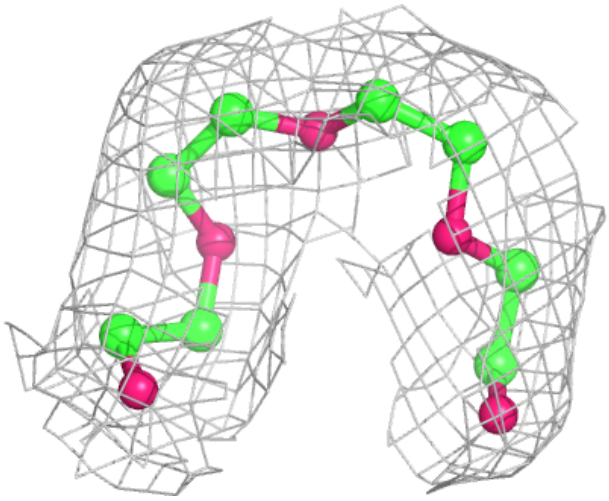
Electron density around GOL B 110:

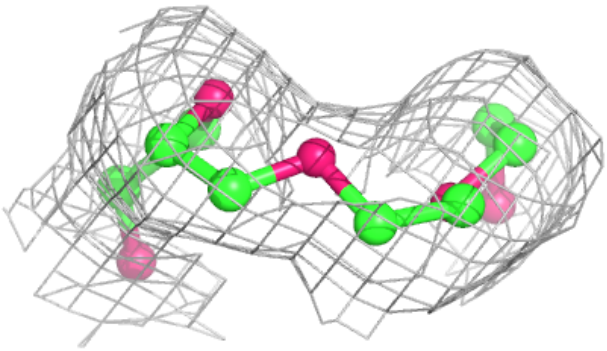
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

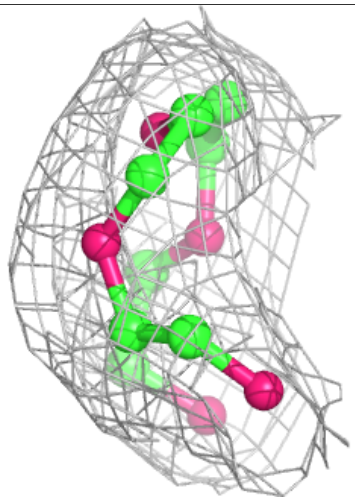


Electron density around PG4 D 119:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

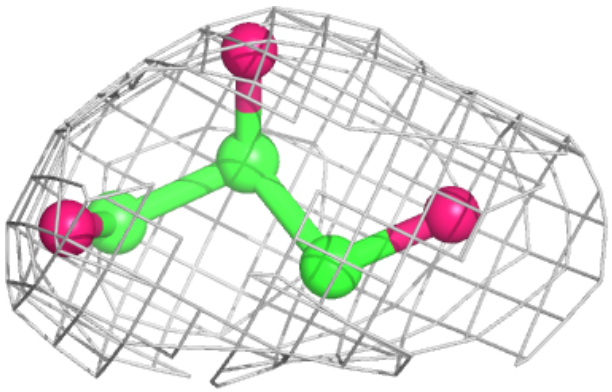


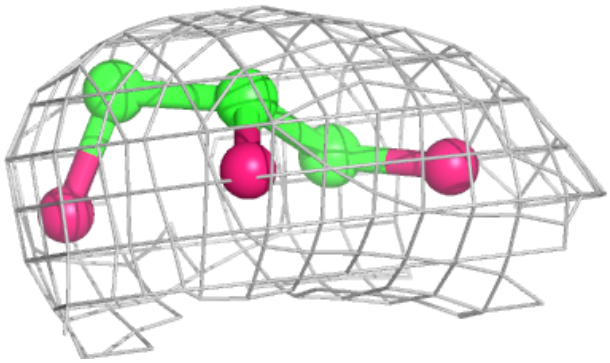


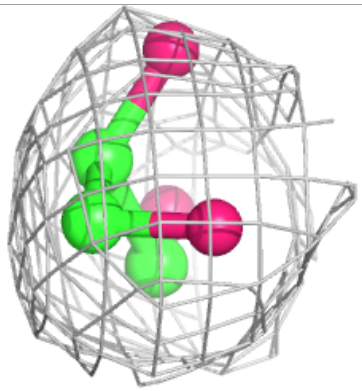


Electron density around GOL B 106:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

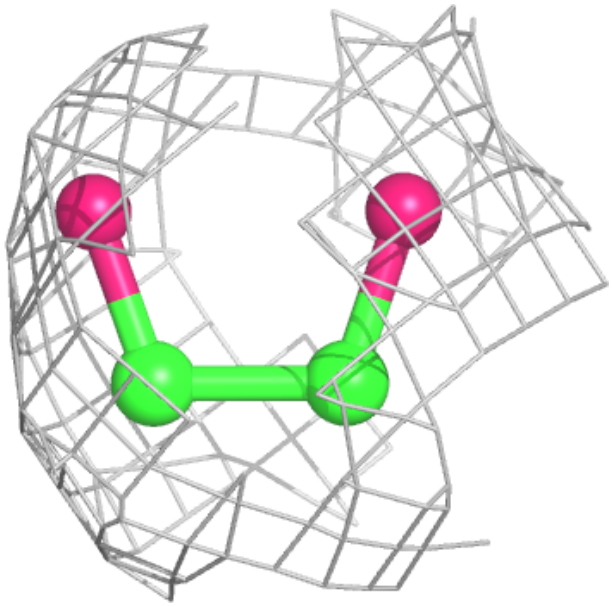


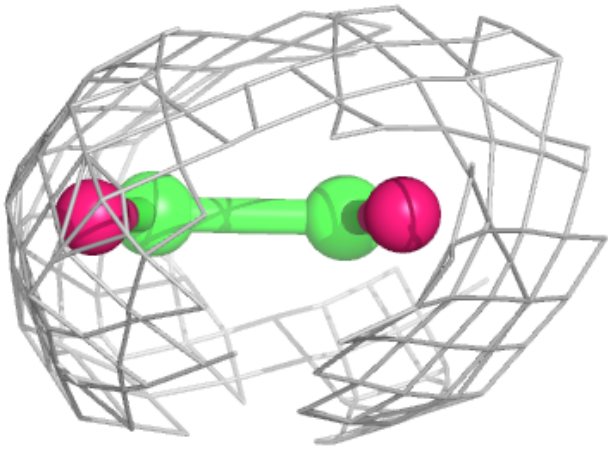


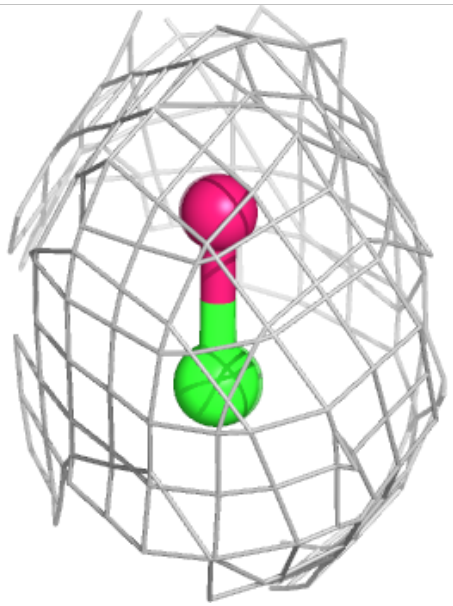


Electron density around EDO E 111:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

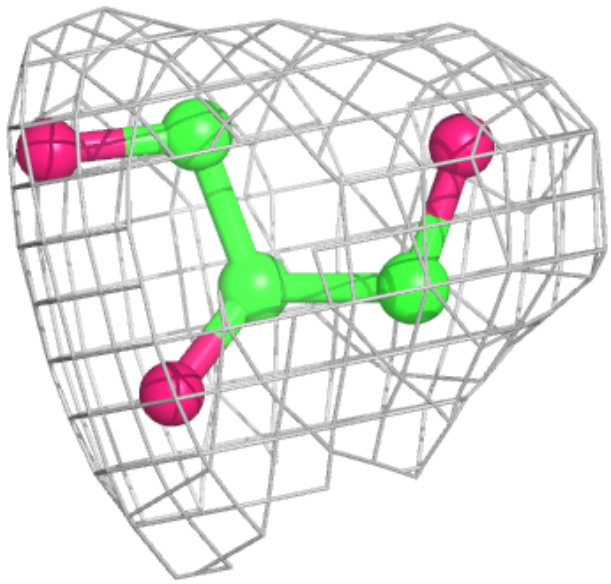


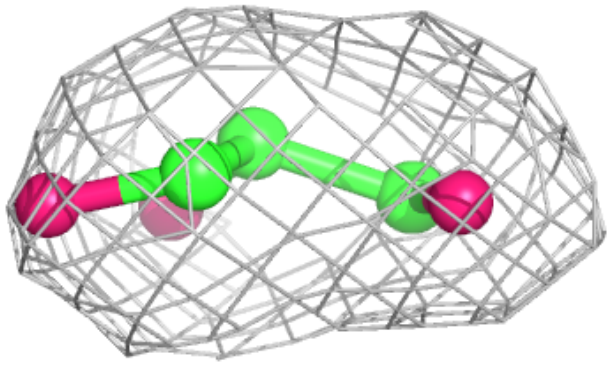


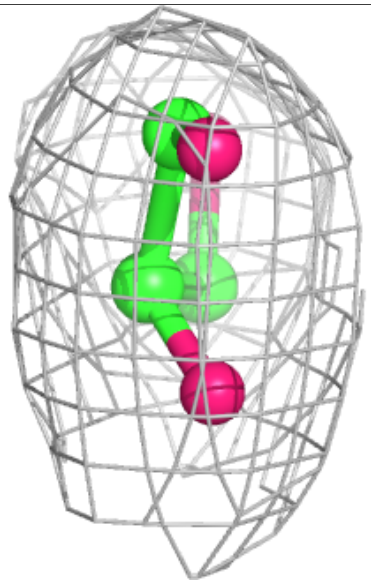


Electron density around GOL A 312:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

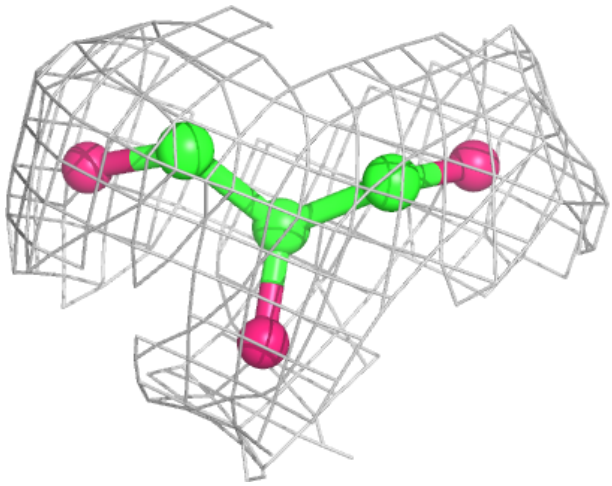


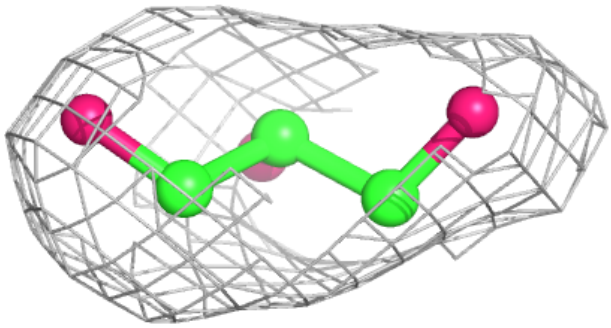


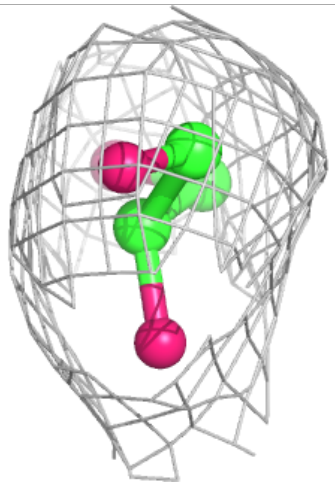


Electron density around GOL C 337:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

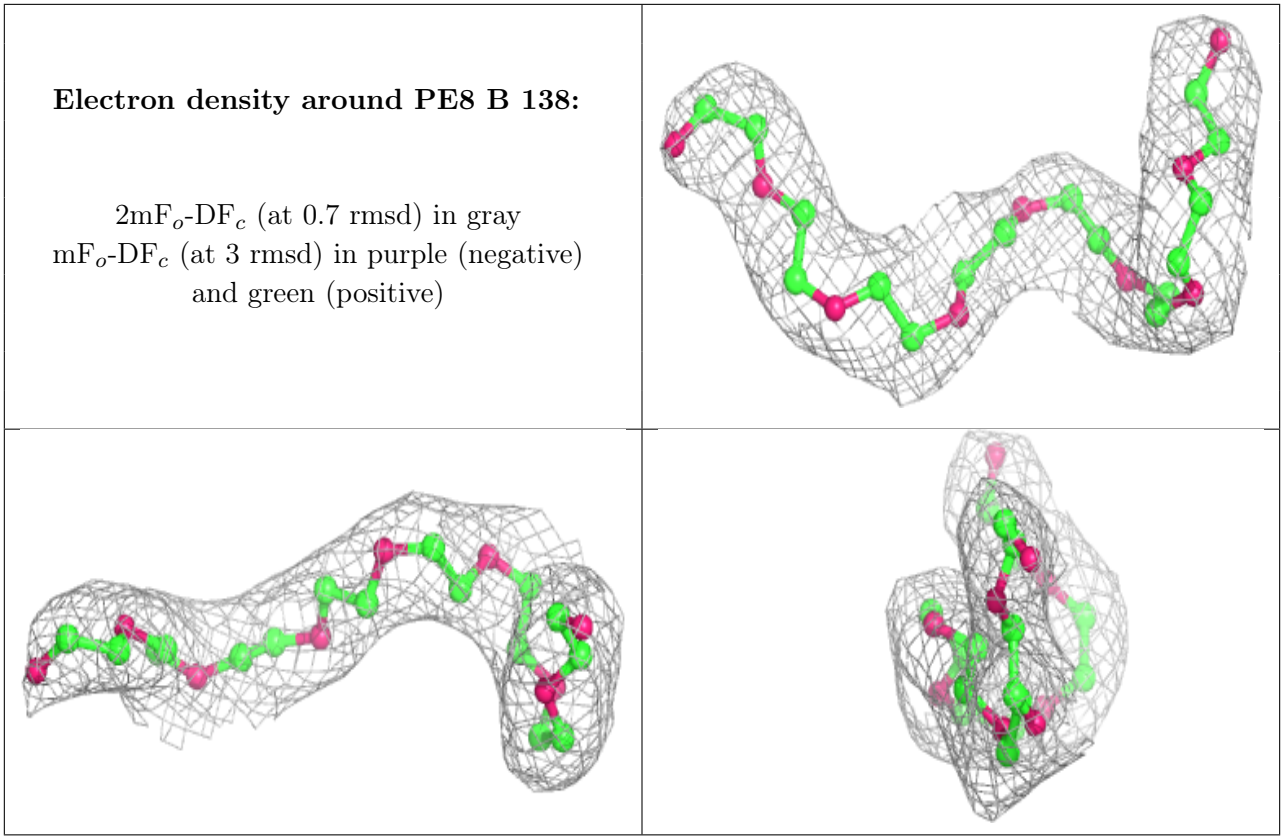






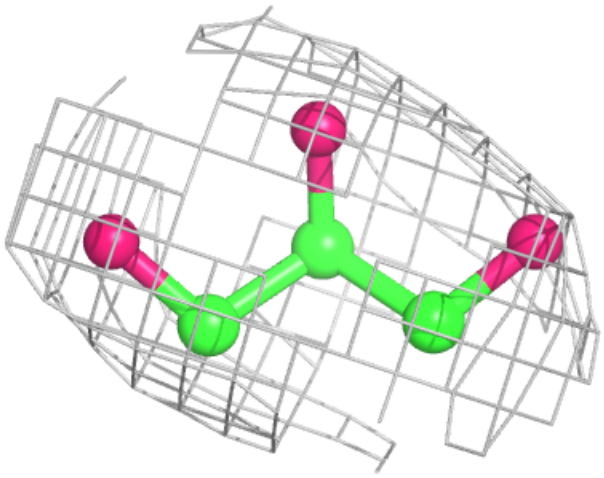
Electron density around PE8 B 138:

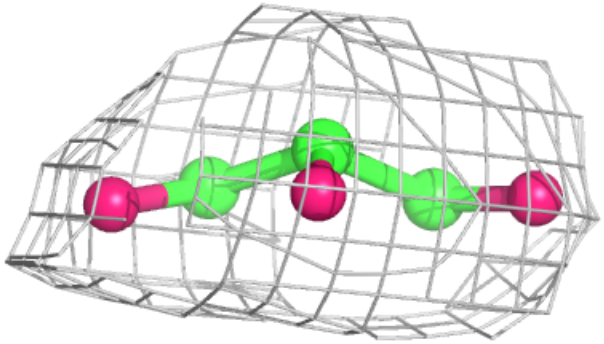
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

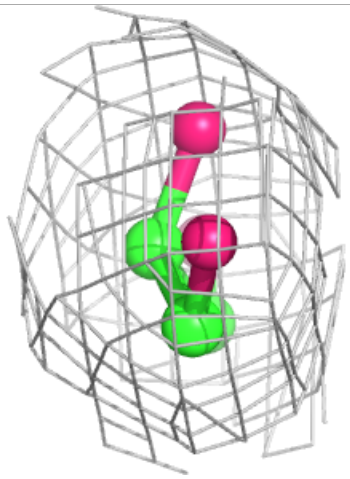


Electron density around GOL A 307:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

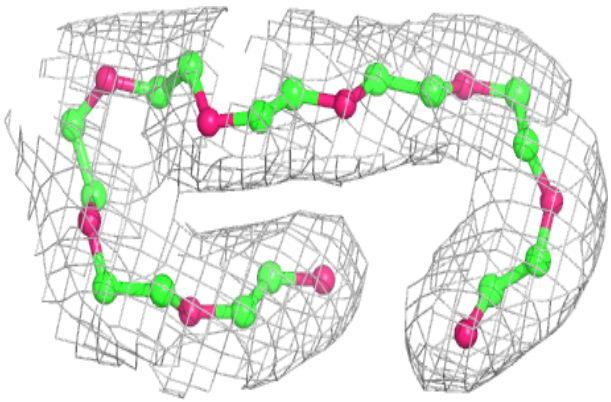


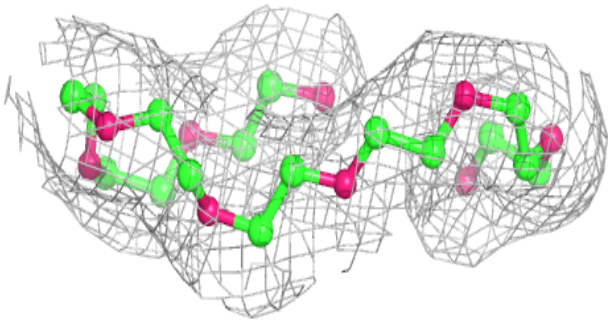


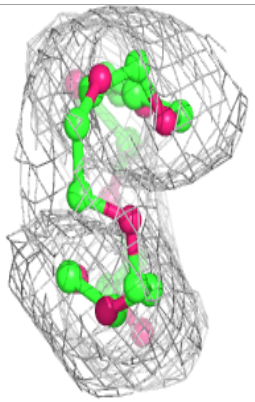


Electron density around PE8 E 109:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

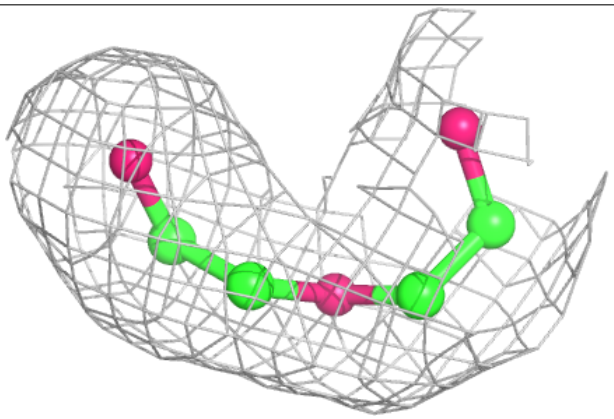


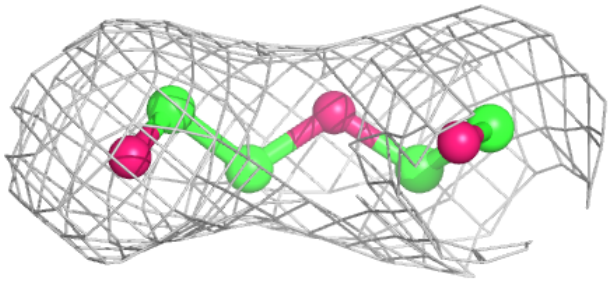


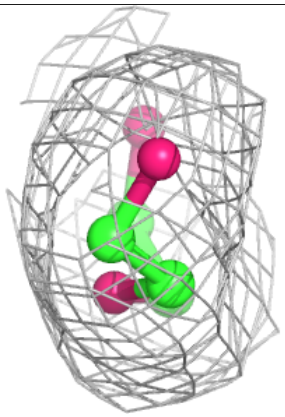


Electron density around PEG B 158:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

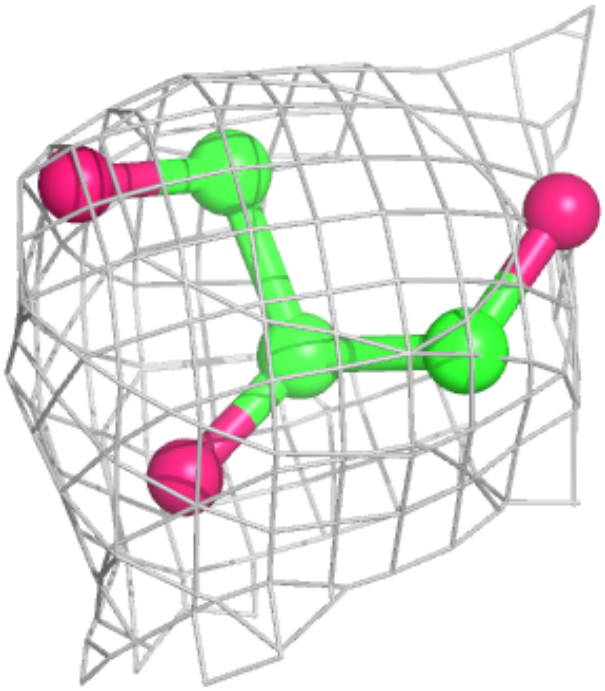


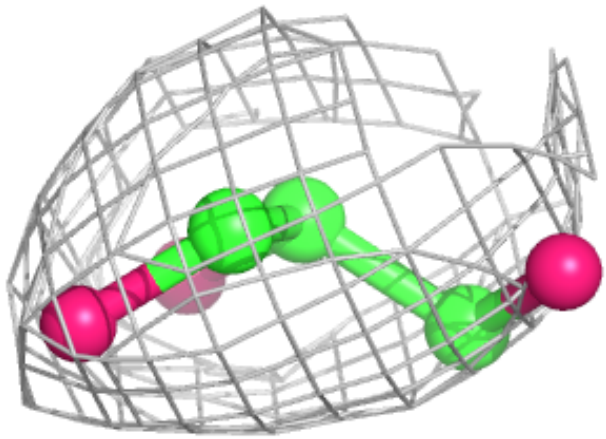


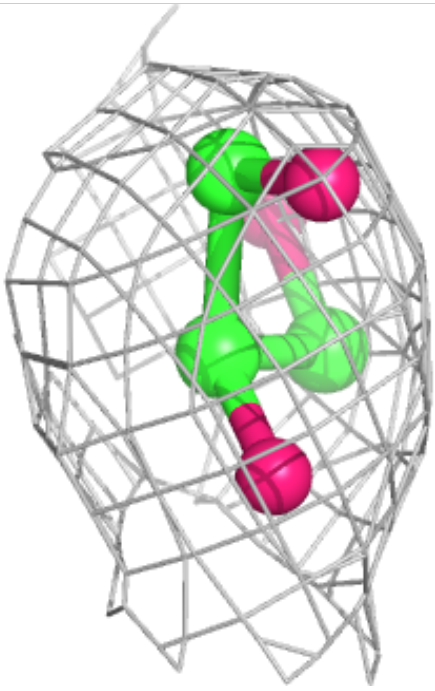


Electron density around GOL C 347:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

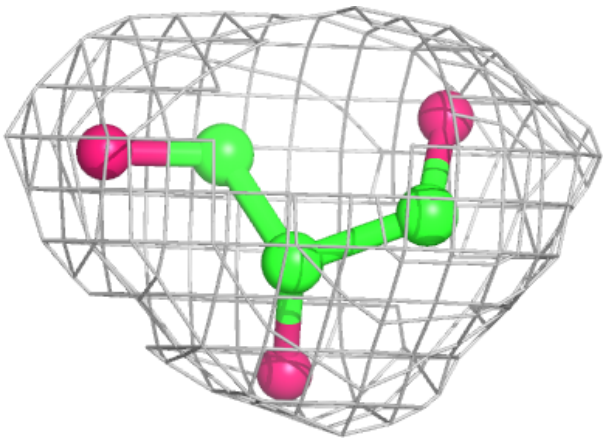


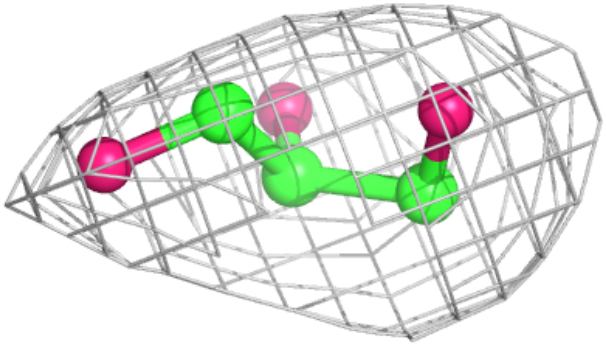


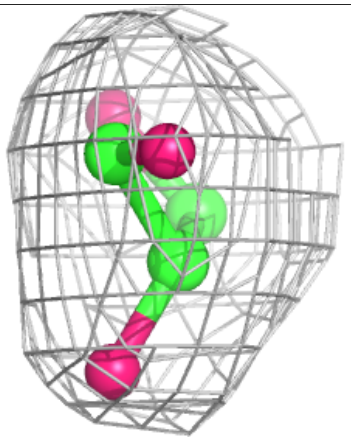


Electron density around GOL C 308:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

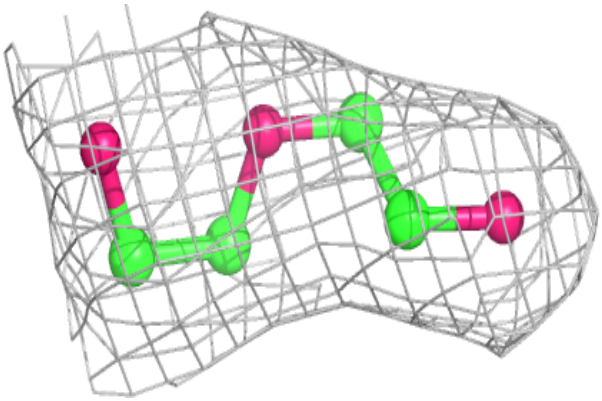


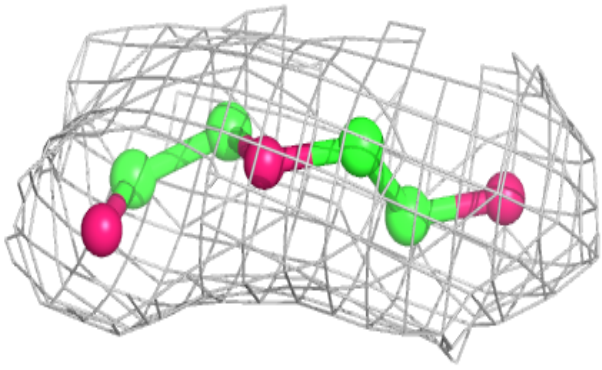


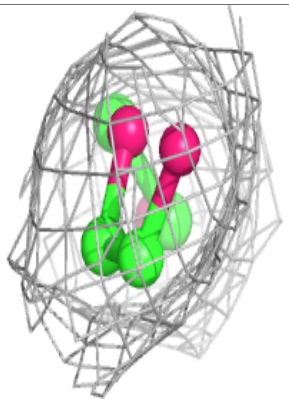


Electron density around PEG D 124:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

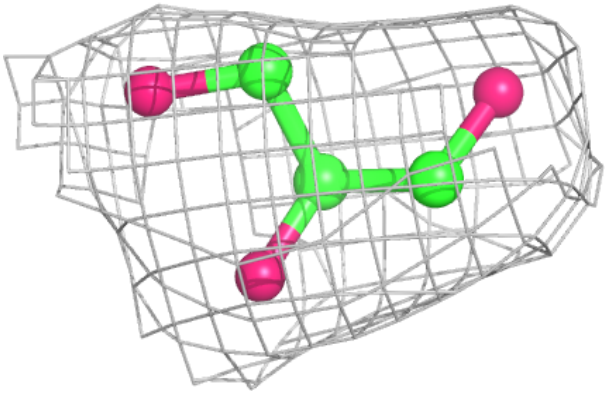


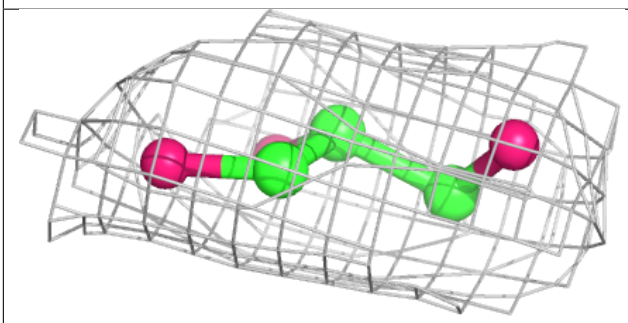


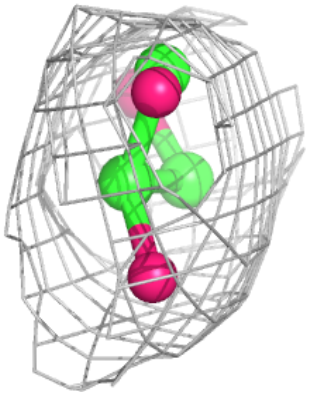


Electron density around GOL A 304:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

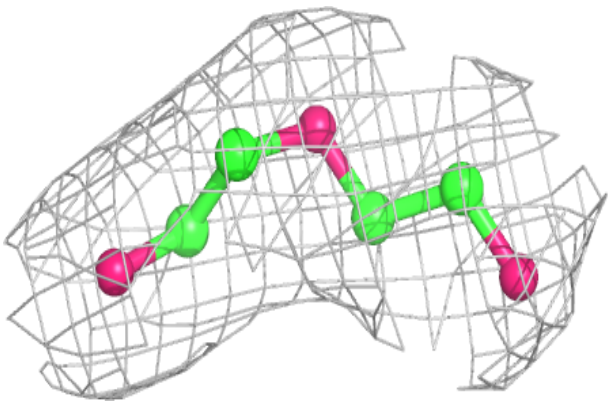


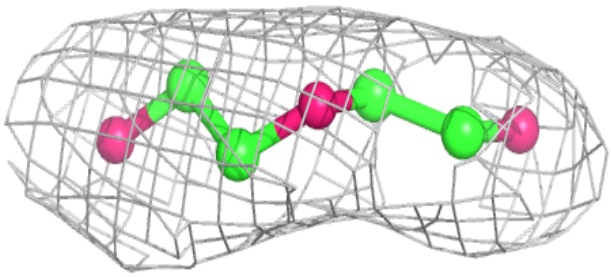


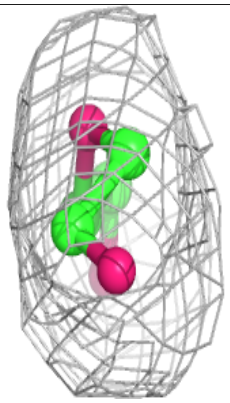


Electron density around PEG B 131:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

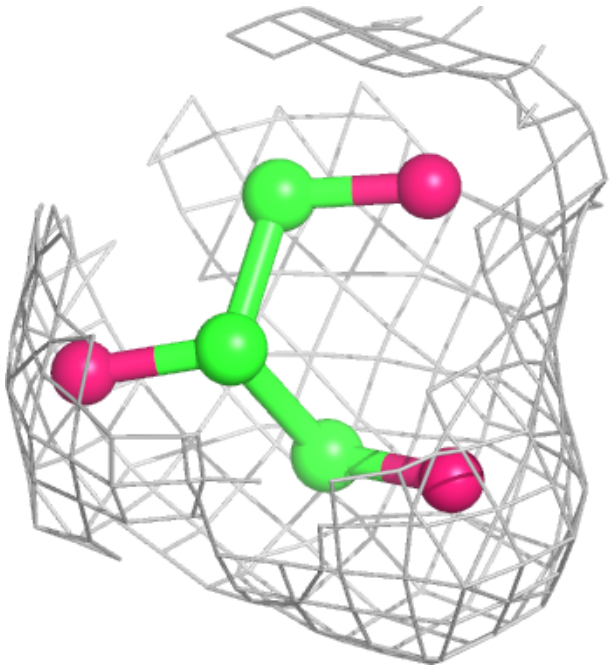


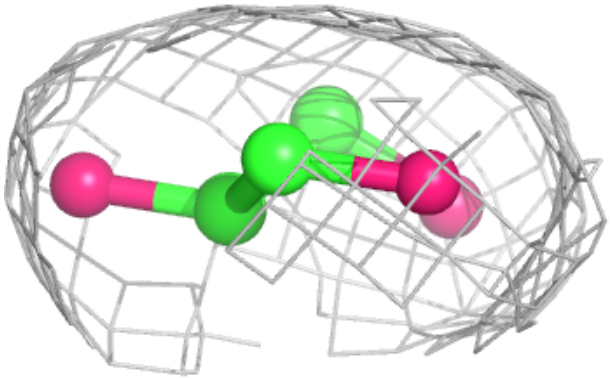


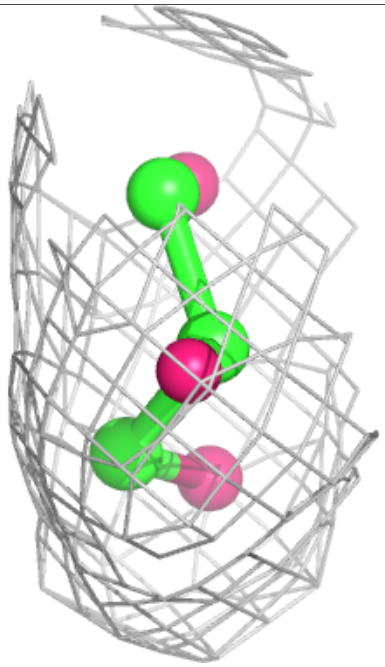


Electron density around GOL D 137:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

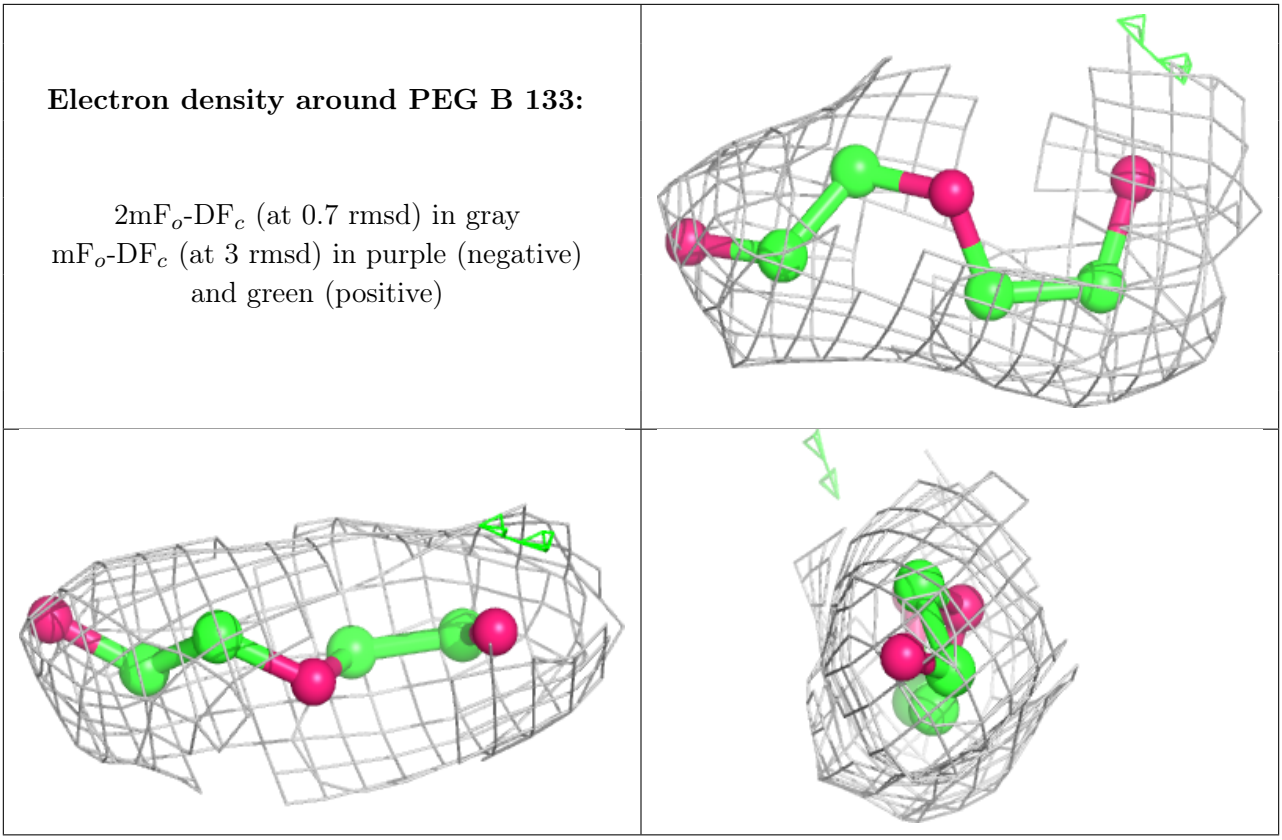






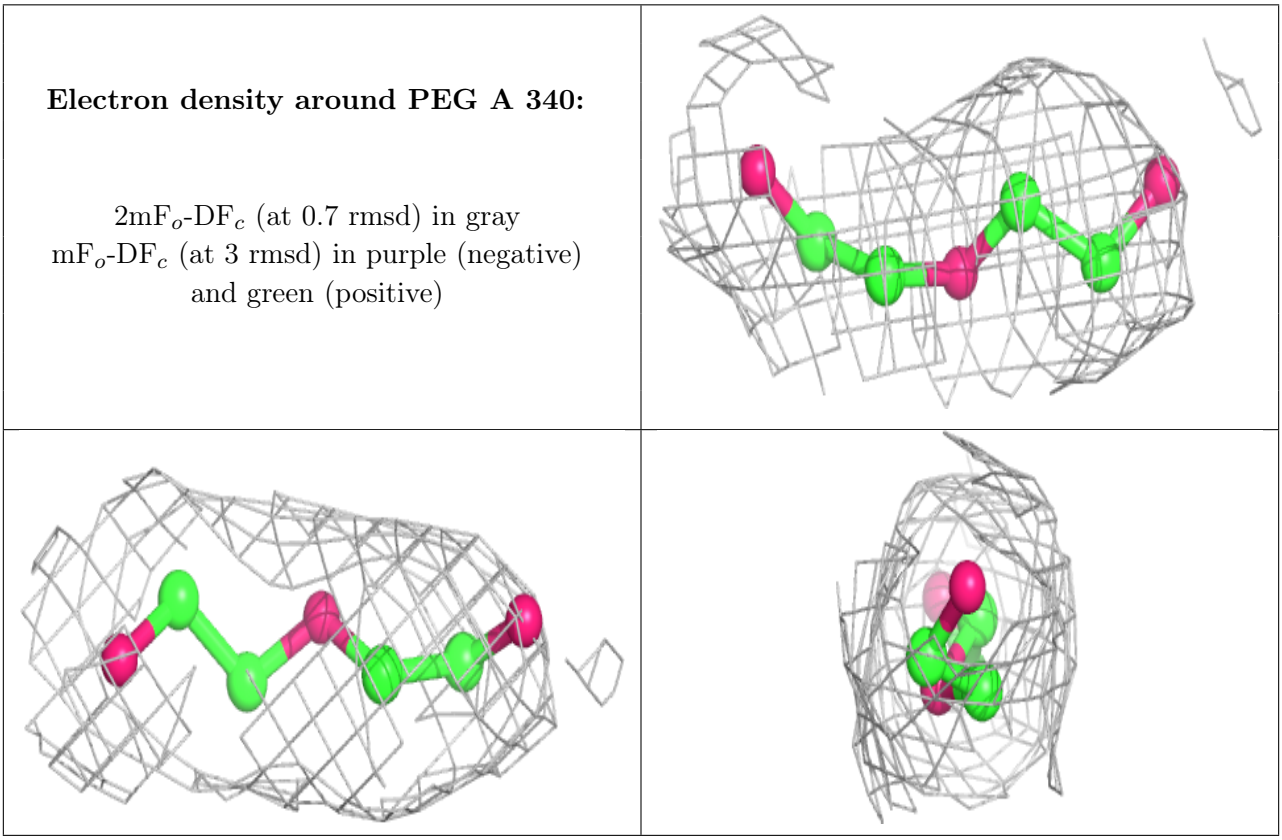
Electron density around PEG B 133:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



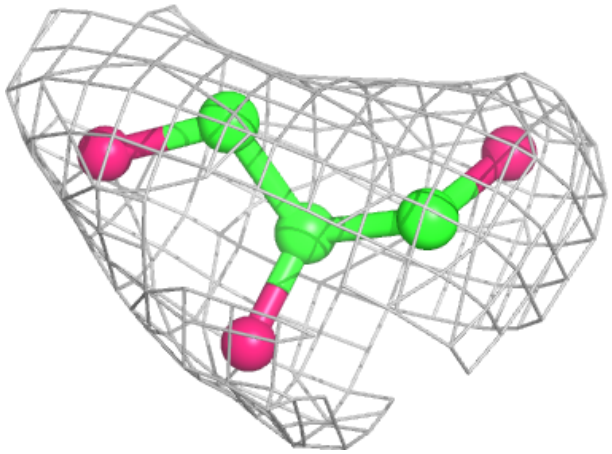
Electron density around PEG A 340:

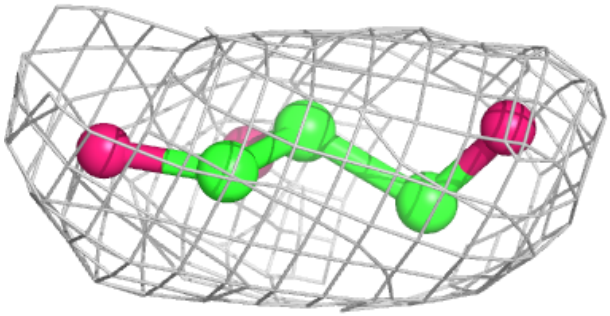
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

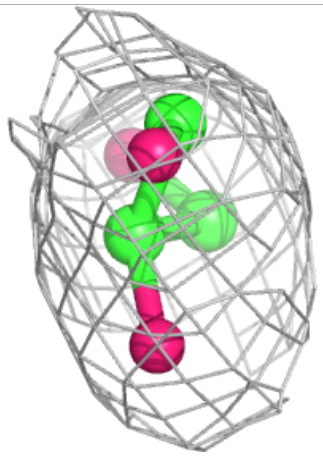


Electron density around GOL A 364:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

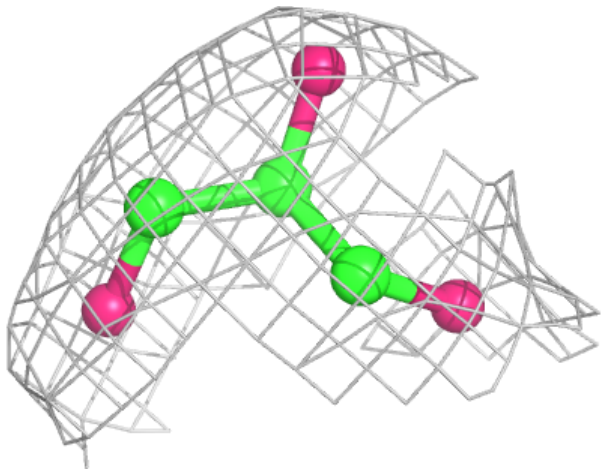


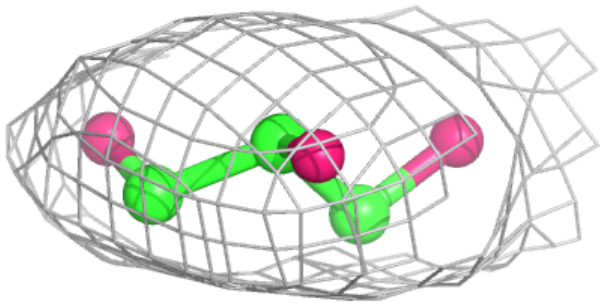


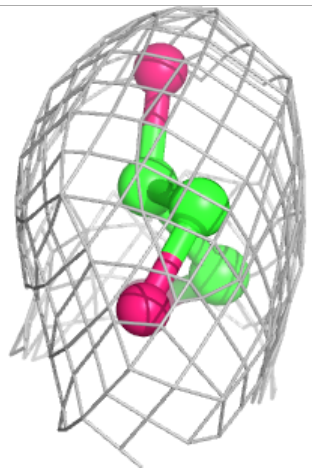


Electron density around GOL A 301:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

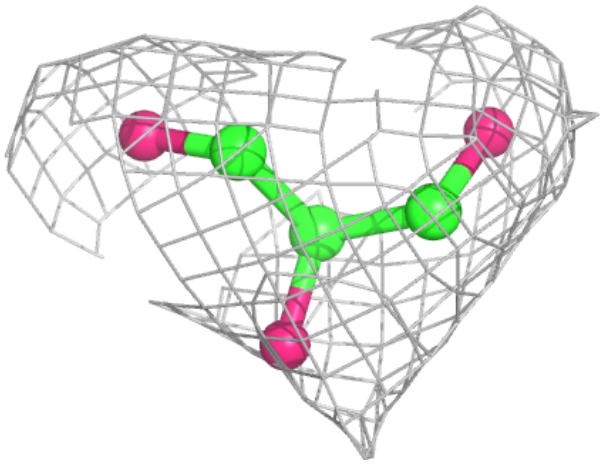


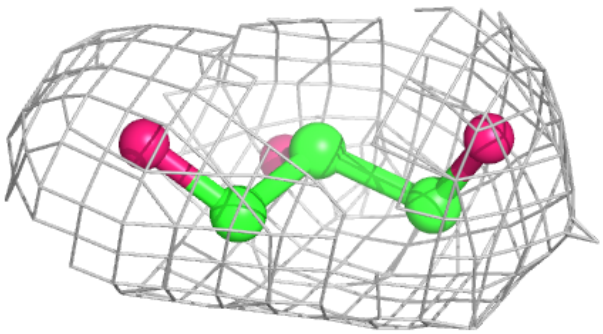


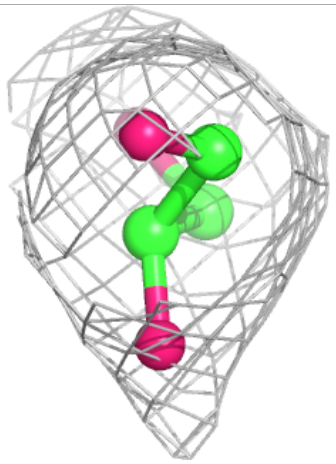


Electron density around GOL C 338:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

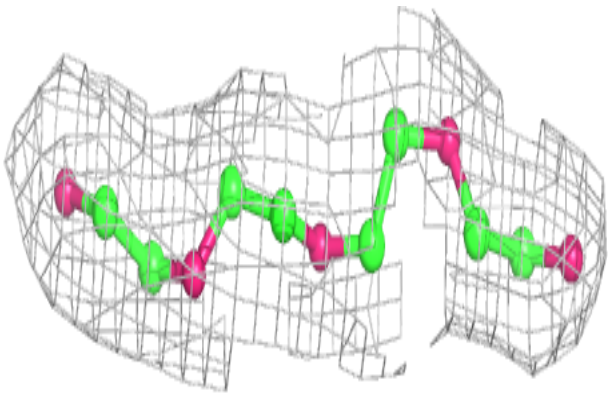


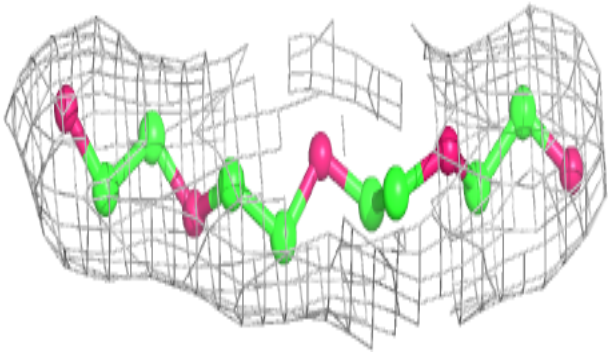


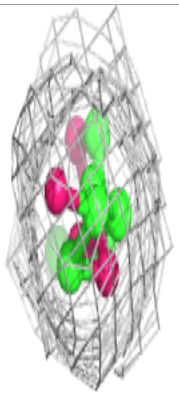


Electron density around PG4 E 115:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

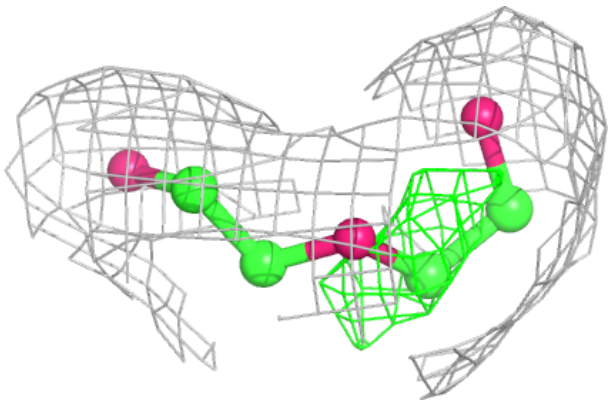


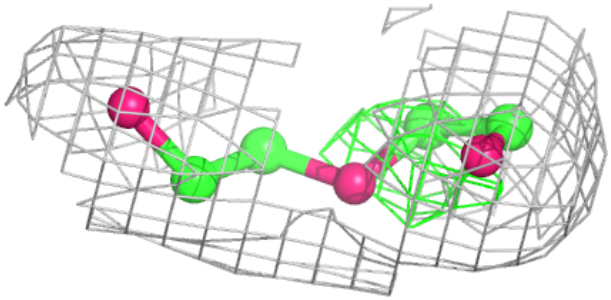




Electron density around PEG D 125:

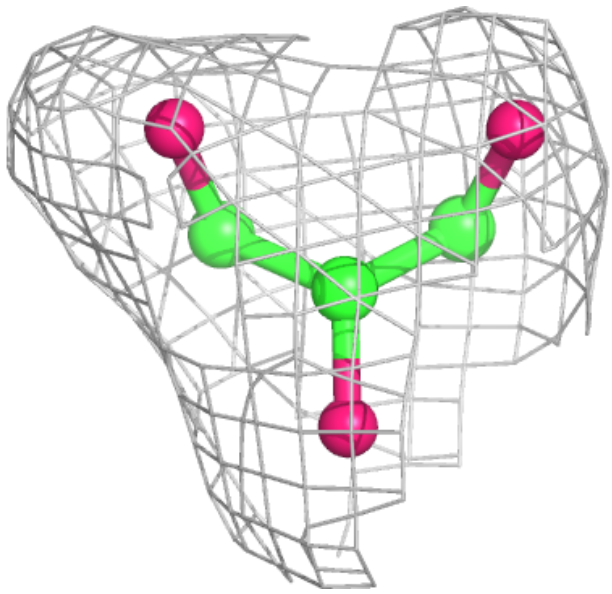
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

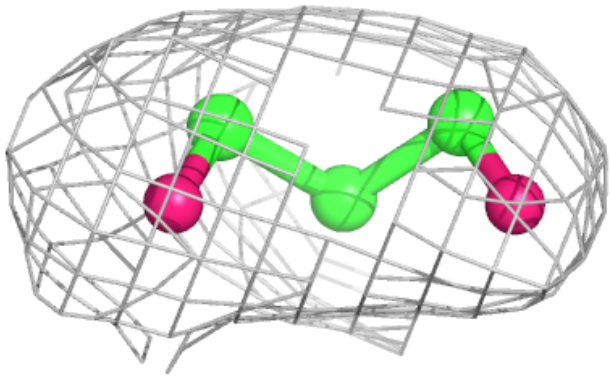


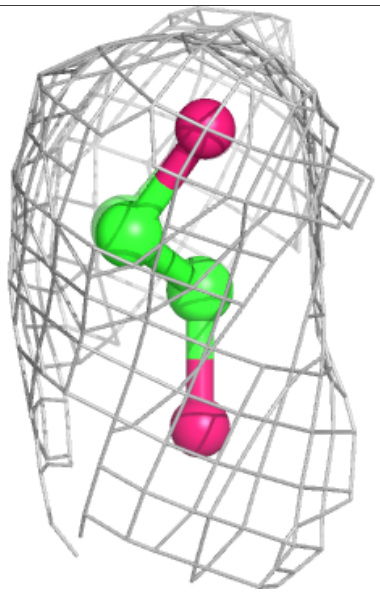


Electron density around GOL A 311:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

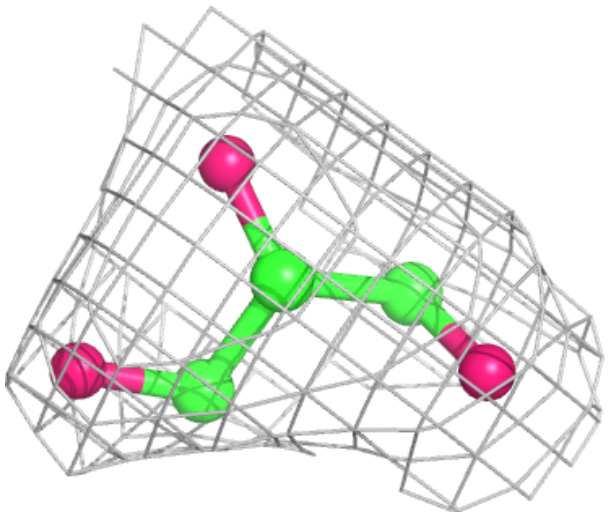


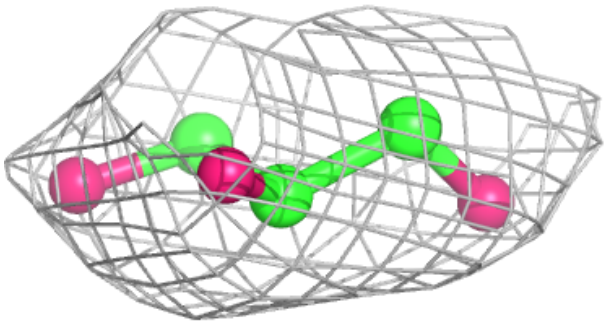


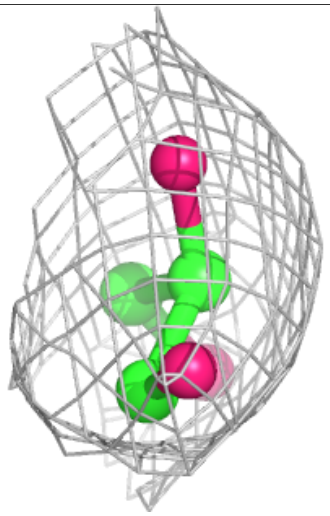


Electron density around GOL C 345:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

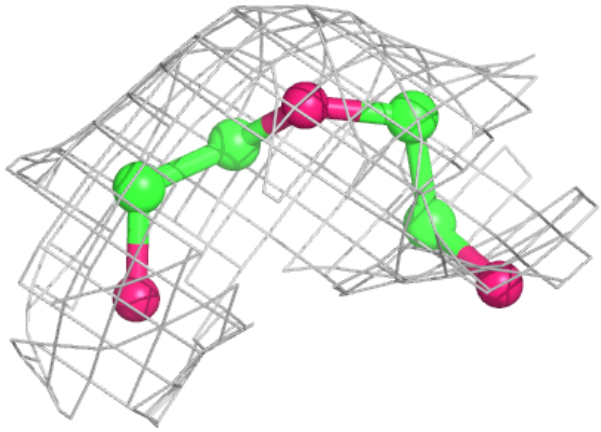


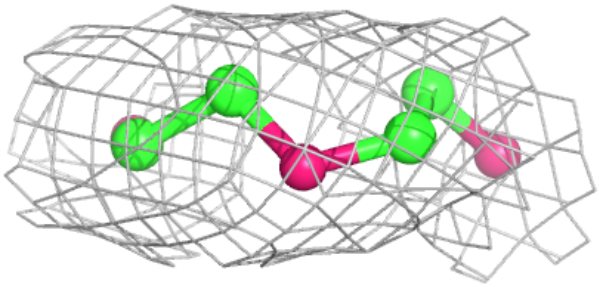


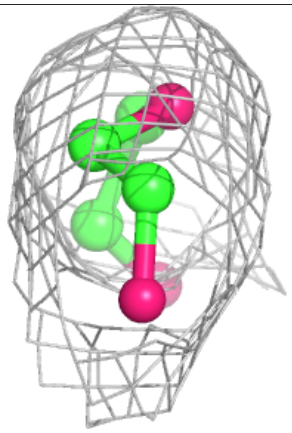


Electron density around PEG A 346:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

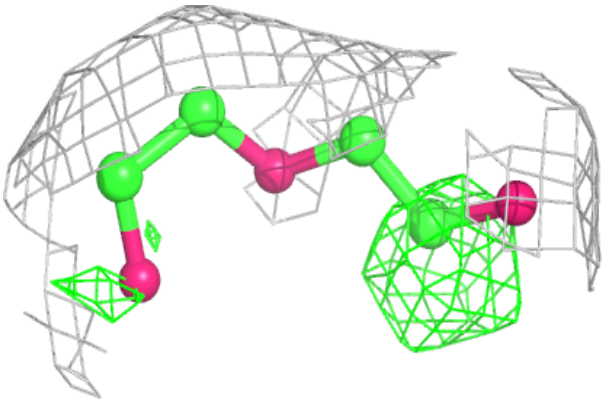


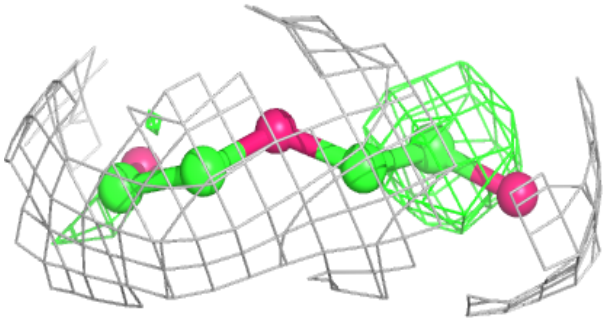


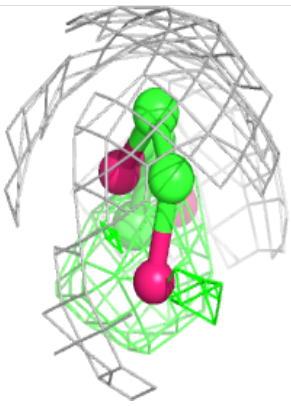


Electron density around PEG A 370:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

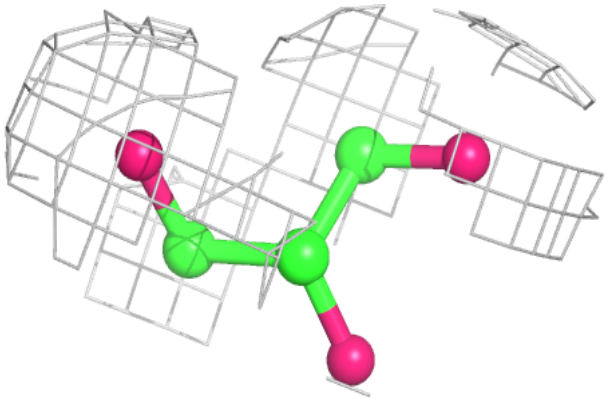


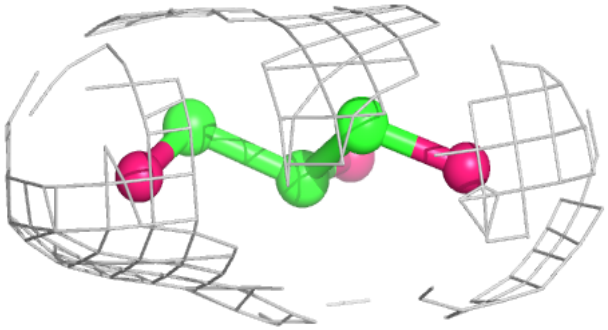


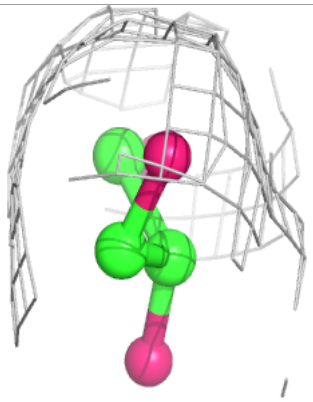


Electron density around GOL B 154:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

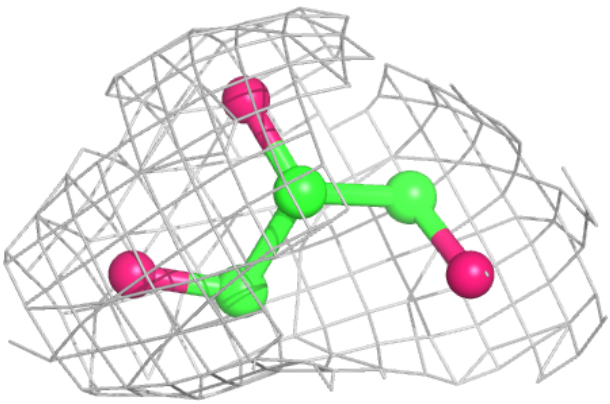


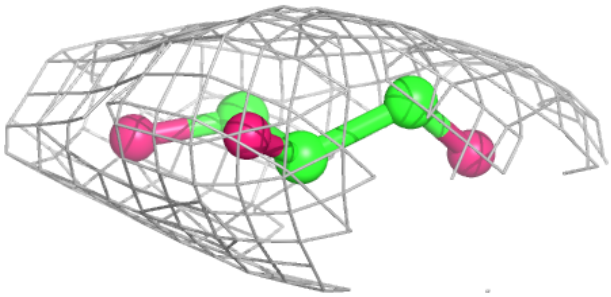


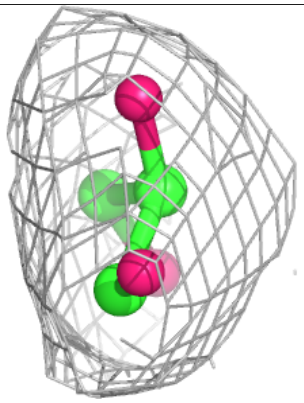


Electron density around GOL B 153:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

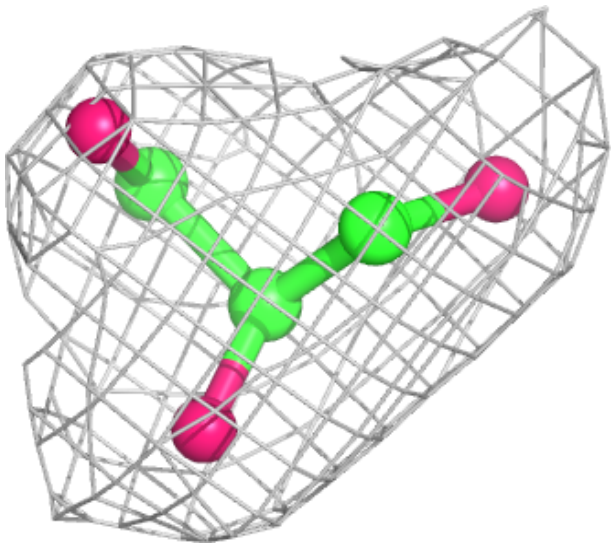


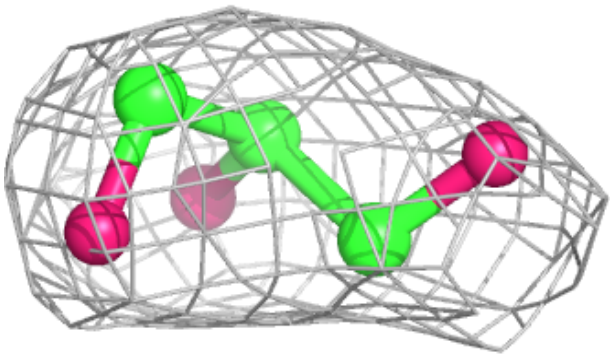


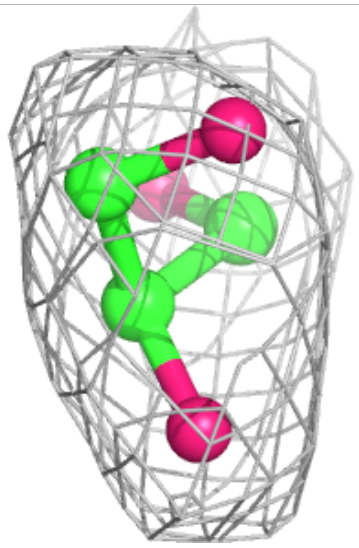


Electron density around GOL D 111:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

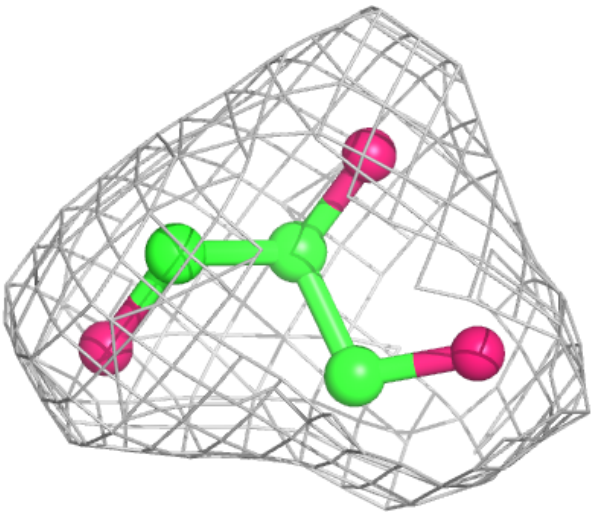


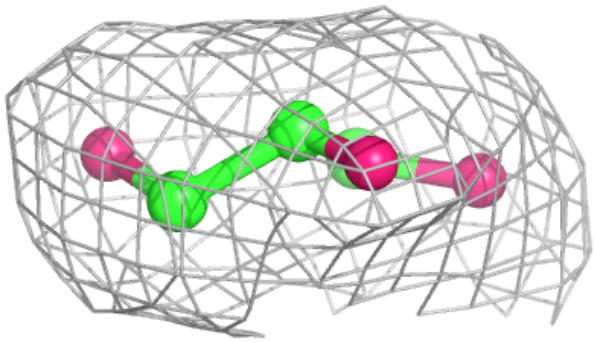


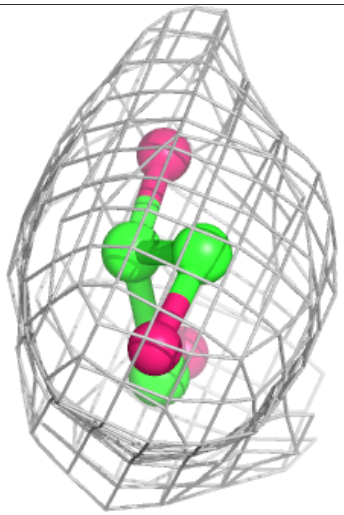


Electron density around GOL A 363:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

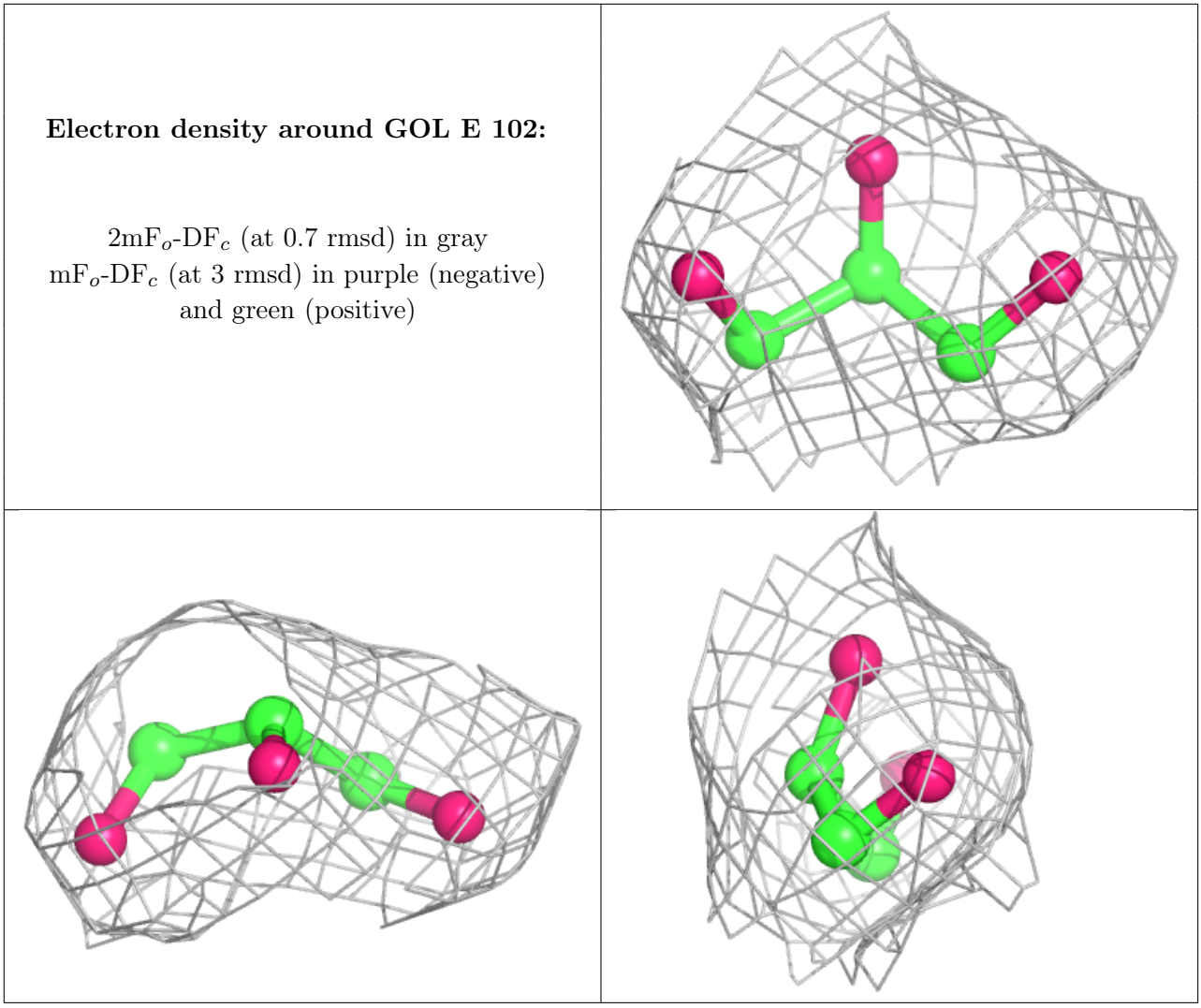






Electron density around GOL E 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers

There are no such residues in this entry.