



Full wwPDB EM Validation Report ⓘ

Sep 8, 2026 – 07:54 PM EDT

PDB ID : 11LL / pdb_000011ll
EMDB ID : EMD-75807
Title : Particulate methane monooxygenase in membrane arrays
Authors : Tucci, F.J.; Miller, C.G.; Rosenzweig, A.C.
Deposited on : 2026-03-03
Resolution : 7.00 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

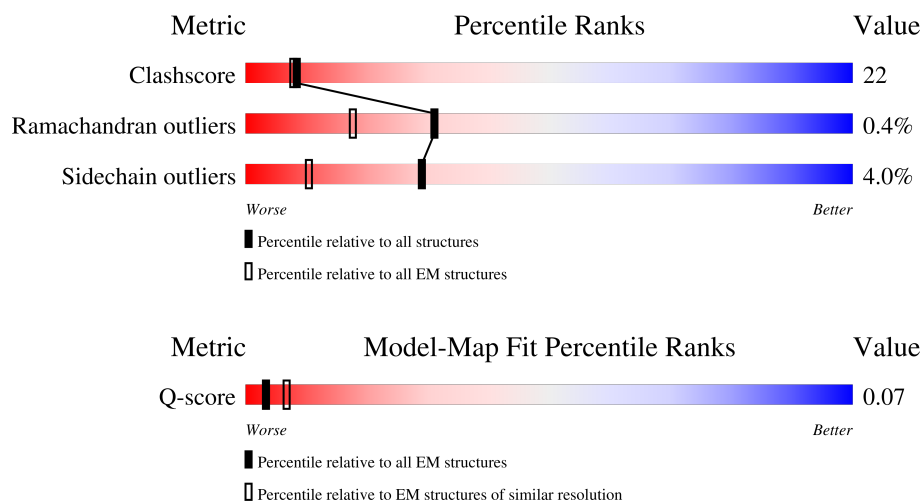
EMDB validation analysis : 0.0.1.dev133
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

1 Overall quality at a glance

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

The reported resolution of this entry is 7.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	483 (6.50 - 7.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	Aa	382	58% 72% 25% .
1	Ab	382	41% 73% 25% .
1	Ac	382	39% 71% 26% .
1	Ad	382	38% 72% 25% .

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Mol	Chain	Length	Quality of chain
1	Ae	382	
1	Af	382	
1	Ag	382	
1	Ah	382	
1	Ai	382	
2	Ba	239	
2	Bb	239	
2	Bc	239	
2	Bd	239	
2	Be	239	
2	Bf	239	
2	Bg	239	
2	Bh	239	
2	Bi	239	
3	Ca	241	
3	Cb	241	
3	Cc	241	
3	Cd	241	
3	Ce	241	
3	Cf	241	
3	Cg	241	
3	Ch	241	
3	Ci	241	

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
5	A1A0P	Ba	309	-	-	X	-
5	A1A0P	Bb	307	-	-	X	-
5	A1A0P	Bc	308	-	-	X	-
5	A1A0P	Bd	309	-	-	X	-
5	A1A0P	Be	308	-	-	X	-
5	A1A0P	Bf	307	-	-	X	-
5	A1A0P	Bg	309	-	-	X	-
5	A1A0P	Bh	307	-	-	X	-
5	A1A0P	Bh	308	-	-	X	-
5	A1A0P	Bi	308	-	-	X	-
5	A1A0P	Ca	302	-	-	X	-
5	A1A0P	Ca	304	-	-	X	-
5	A1A0P	Cb	302	-	-	X	-
5	A1A0P	Cb	304	-	-	X	-
5	A1A0P	Cc	302	-	-	X	-
5	A1A0P	Cc	304	-	-	X	-
5	A1A0P	Cd	302	-	-	X	-
5	A1A0P	Cd	304	-	-	X	-
5	A1A0P	Ce	302	-	-	X	-
5	A1A0P	Ce	304	-	-	X	-
5	A1A0P	Cf	302	-	-	X	-
5	A1A0P	Cf	304	-	-	X	-
5	A1A0P	Cg	302	-	-	X	-
5	A1A0P	Cg	304	-	-	X	-
5	A1A0P	Ch	302	-	-	X	-
5	A1A0P	Ch	304	-	-	X	-
5	A1A0P	Ci	302	-	-	X	-
5	A1A0P	Ci	304	-	-	X	-

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 85276 atoms, of which 12483 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Particulate methane monooxygenase alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aa	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ab	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ac	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ad	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ae	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Af	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ag	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ah	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		
1	Ai	382	Total	C	N	O	S	0	0
			3017	1938	513	551	15		

- Molecule 2 is a protein called Particulate methane monooxygenase gamma subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ba	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Bb	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Bc	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Bd	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Be	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Bf	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Bg	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Bh	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		
2	Bi	239	Total	C	N	O	S	0	0
			1993	1352	302	334	5		

- Molecule 3 is a protein called Particulate methane monooxygenase beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ca	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Cb	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Cc	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Cd	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Ce	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Cf	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Cg	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Ch	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		
3	Ci	241	Total	C	N	O	S	0	0
			1976	1328	315	322	11		

- Molecule 4 is COPPER (II) ION (CCD ID: CU) (formula: Cu).

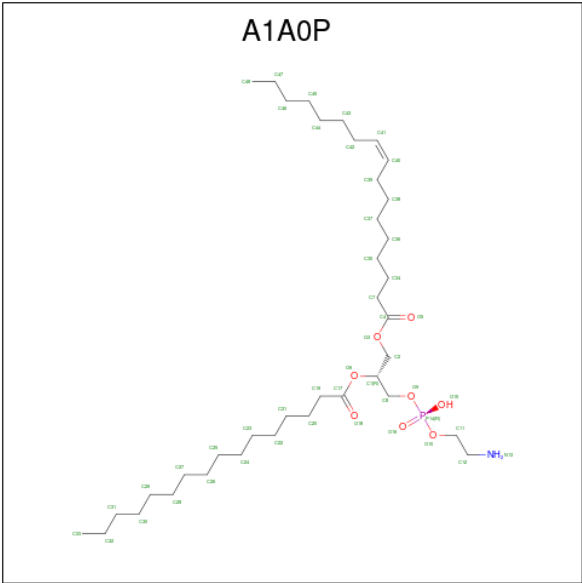
Mol	Chain	Residues	Atoms		AltConf
4	Aa	1	Total	Cu	0
			1	1	
4	Ab	1	Total	Cu	0
			1	1	
4	Ac	1	Total	Cu	0
			1	1	
4	Ad	1	Total	Cu	0
			1	1	
4	Ae	1	Total	Cu	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
4	Af	1	Total	Cu	0
			1	1	
4	Ag	1	Total	Cu	0
			1	1	
4	Ah	1	Total	Cu	0
			1	1	
4	Ai	1	Total	Cu	0
			1	1	
4	Ba	1	Total	Cu	0
			1	1	
4	Bd	1	Total	Cu	0
			1	1	
4	Bg	1	Total	Cu	0
			1	1	

- Molecule 5 is (2R)-3-[[[(R)-(2-aminoethoxy)(hydroxy)phosphoryl]oxy}-2-(hexadecanoyloxy)propyl (9Z)-heptadec-9-enoate (CCD ID: A1A0P) (formula: C₃₈H₇₄NO₈P).



Mol	Chain	Residues	Atoms						AltConf
5	Aa	1	Total	C	H	N	O	P	0
			121	38	73	1	8	1	
5	Aa	1	Total	C	H	N	O	P	0
			121	38	73	1	8	1	
5	Ab	1	Total	C	H	N	O	P	0
			121	38	73	1	8	1	
5	Ab	1	Total	C	H	N	O	P	0
			121	38	73	1	8	1	

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Mol	Chain	Residues	Atoms						AltConf
5	Ac	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ac	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ac	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ad	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ad	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ae	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ae	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ae	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Af	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Af	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Af	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ag	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ag	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ag	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ah	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ah	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ah	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ai	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ai	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ai	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ba	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Be	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bh	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Bi	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ca	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cb	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cc	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
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5	Cd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Cd	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ce	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cf	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

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Mol	Chain	Residues	Atoms						AltConf
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Cg	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ch	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0
5	Ci	1	Total 121	C 38	H 73	N 1	O 8	P 1	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		AltConf
6	Aa	119	Total 119	O 119	0
6	Ab	117	Total 117	O 117	0
6	Ac	116	Total 116	O 116	0
6	Ad	120	Total 120	O 120	0
6	Ae	118	Total 118	O 118	0
6	Af	116	Total 116	O 116	0
6	Ag	119	Total 119	O 119	0
6	Ah	118	Total 118	O 118	0
6	Ai	117	Total 117	O 117	0
6	Ba	25	Total 25	O 25	0
6	Bb	26	Total 26	O 26	0
6	Bc	26	Total 26	O 26	0
6	Bd	25	Total 25	O 25	0
6	Be	26	Total 26	O 26	0
6	Bf	26	Total 26	O 26	0
6	Bg	25	Total 25	O 25	0
6	Bh	26	Total 26	O 26	0
6	Bi	26	Total 26	O 26	0
6	Ca	47	Total 47	O 47	0
6	Cb	45	Total 45	O 45	0
6	Cc	45	Total 45	O 45	0
6	Cd	46	Total 46	O 46	0

Continued on next page...

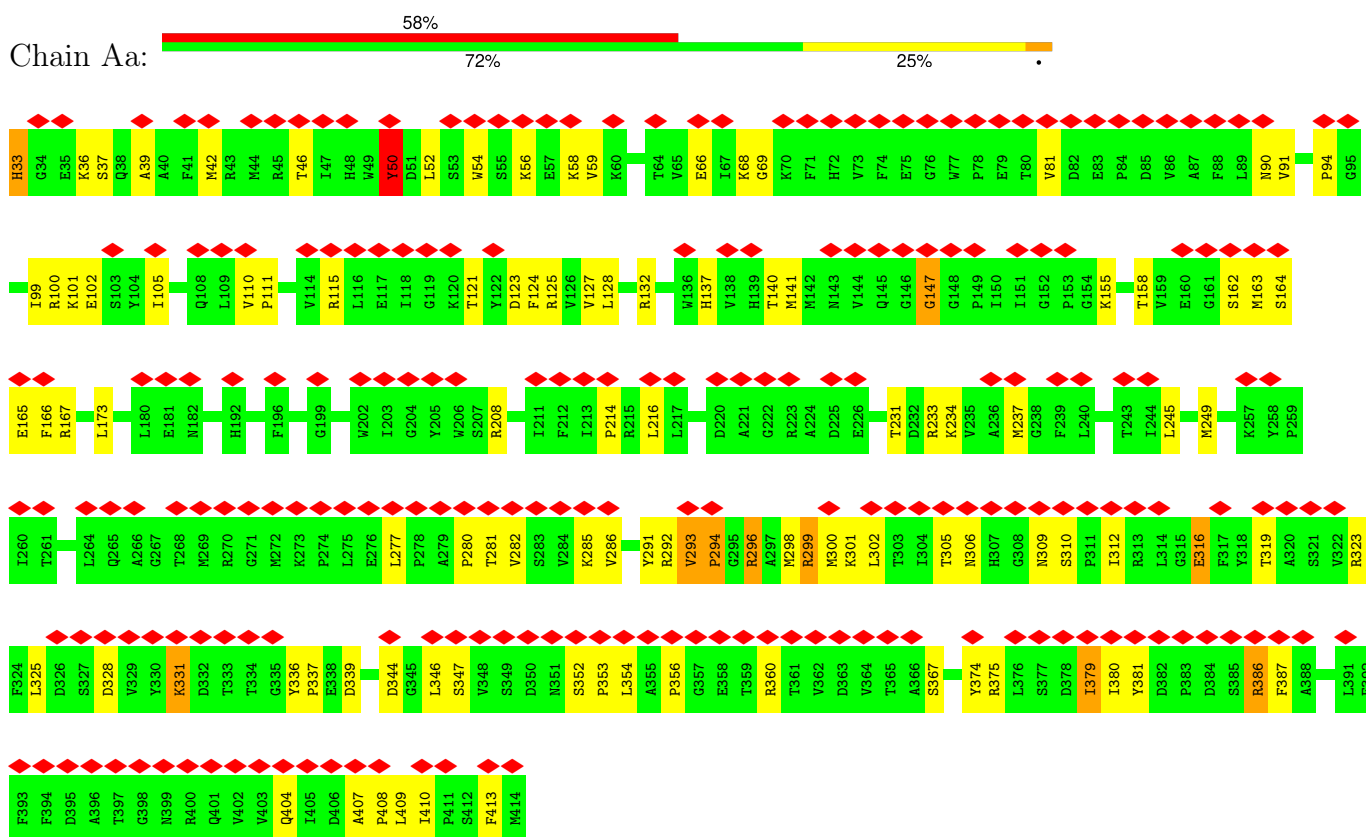
Continued from previous page...

Mol	Chain	Residues	Atoms		AltConf
6	Ce	44	Total 44	O 44	0
6	Cf	45	Total 45	O 45	0
6	Cg	47	Total 47	O 47	0
6	Ch	45	Total 45	O 45	0
6	Ci	44	Total 44	O 44	0

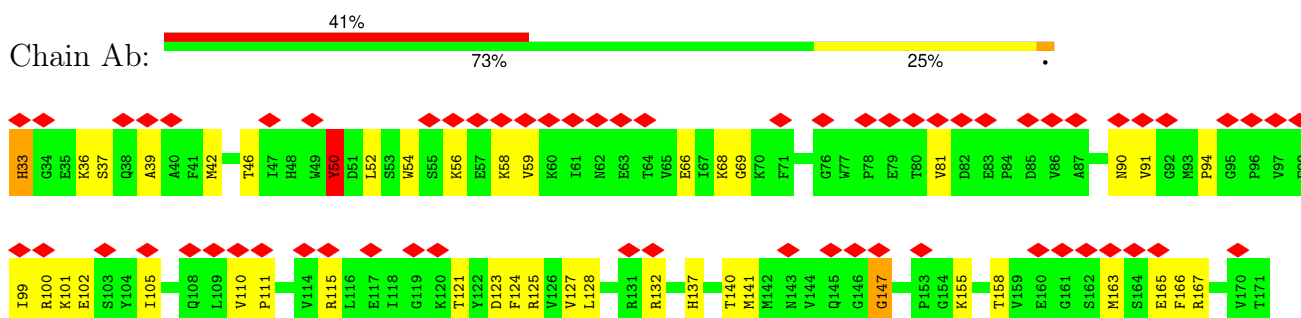
3 Residue-property plots

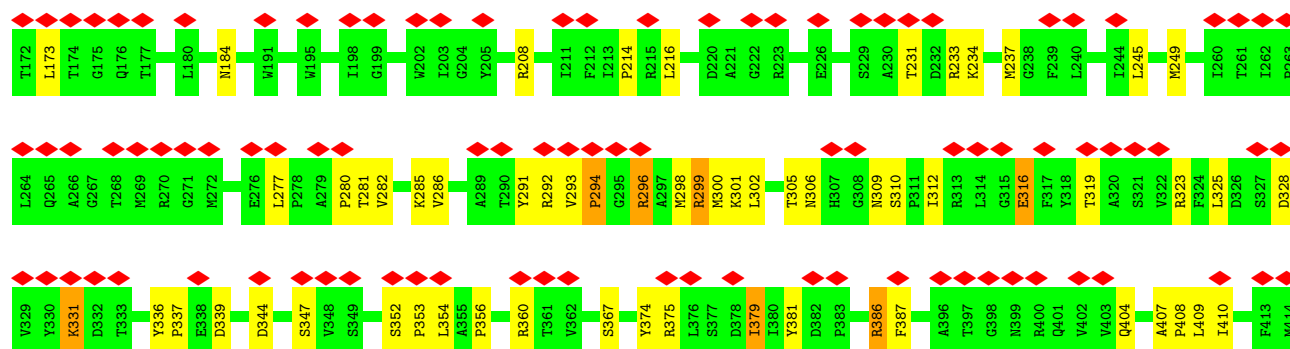
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

- Molecule 1: Particulate methane monooxygenase alpha subunit

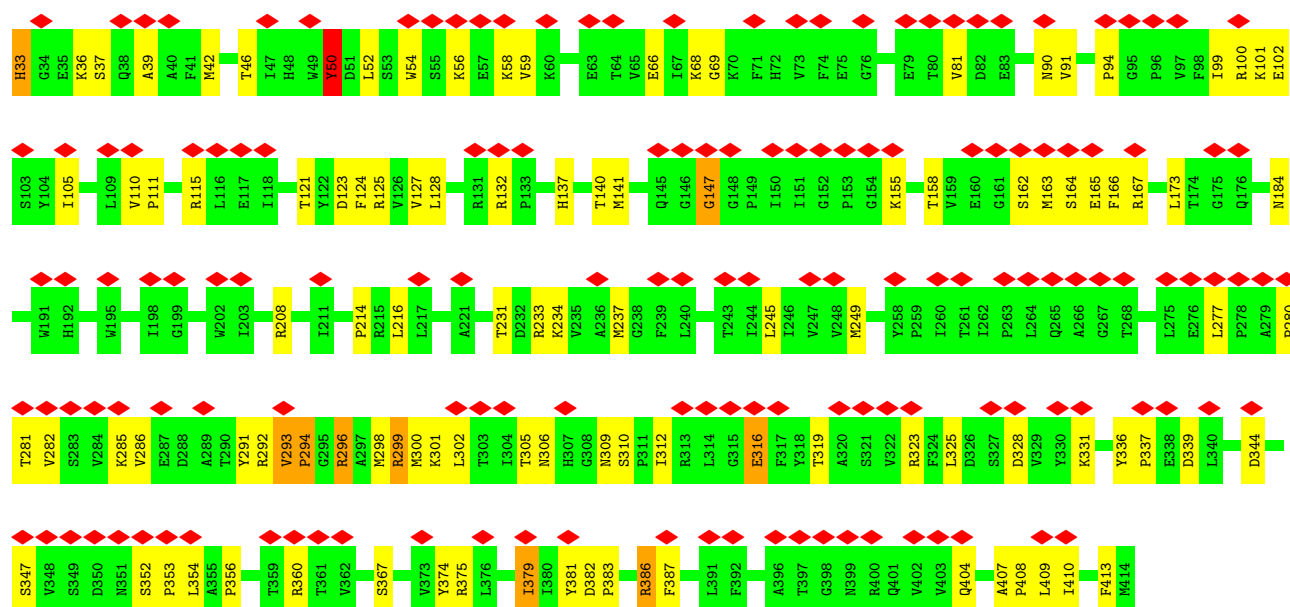
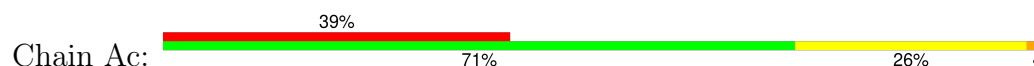


- Molecule 1: Particulate methane monooxygenase alpha subunit

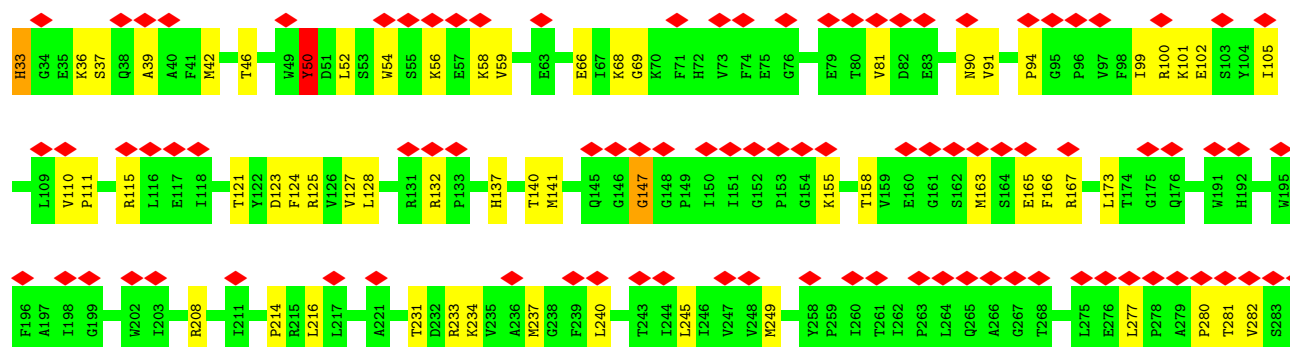
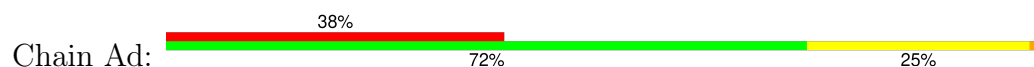


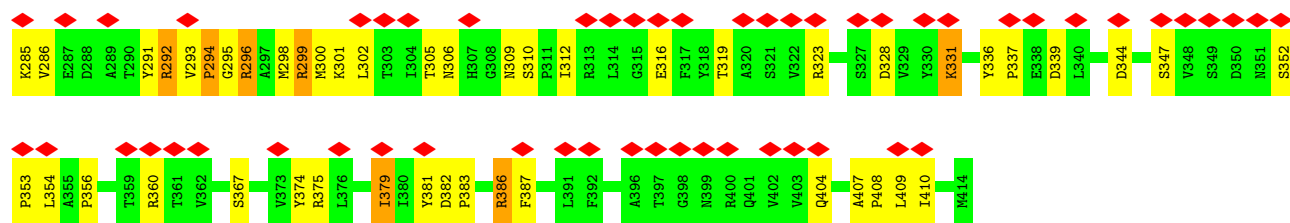


• Molecule 1: Particulate methane monooxygenase alpha subunit

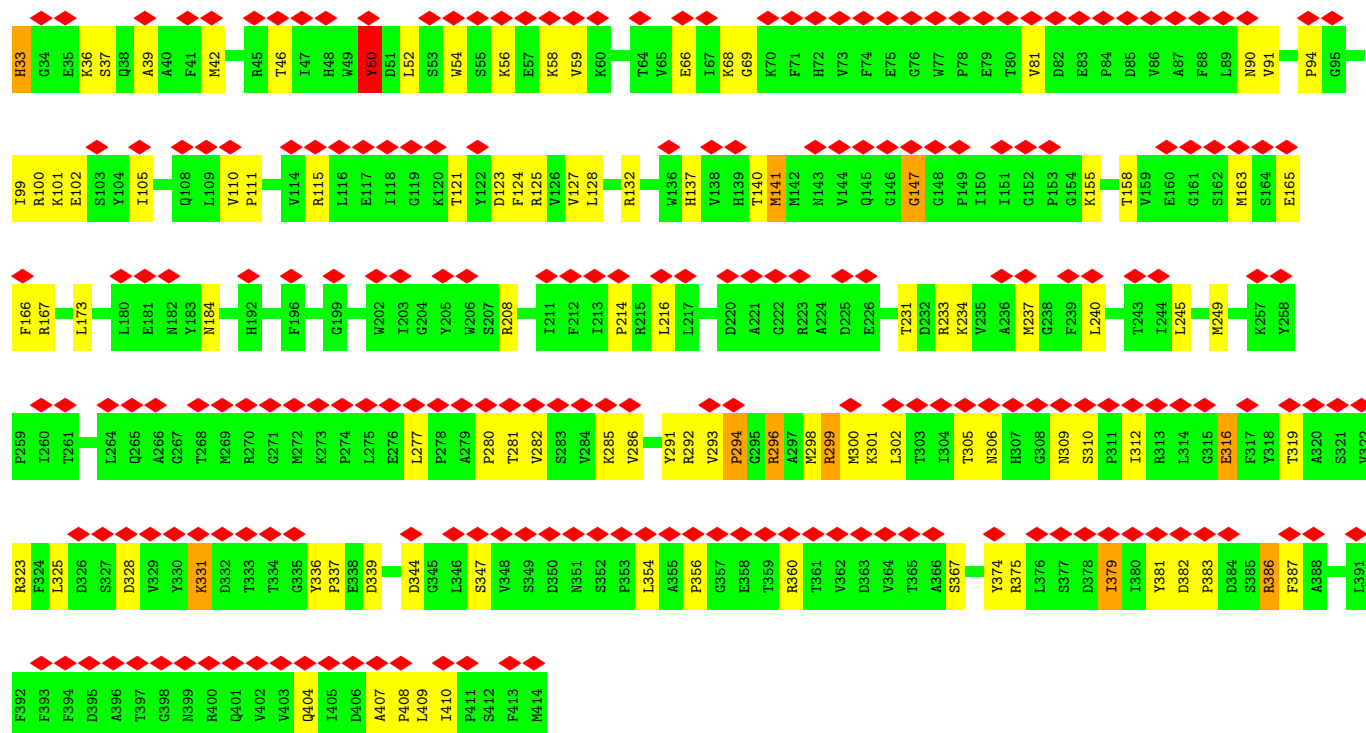
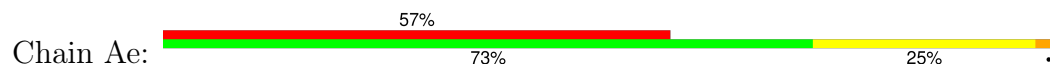


• Molecule 1: Particulate methane monooxygenase alpha subunit

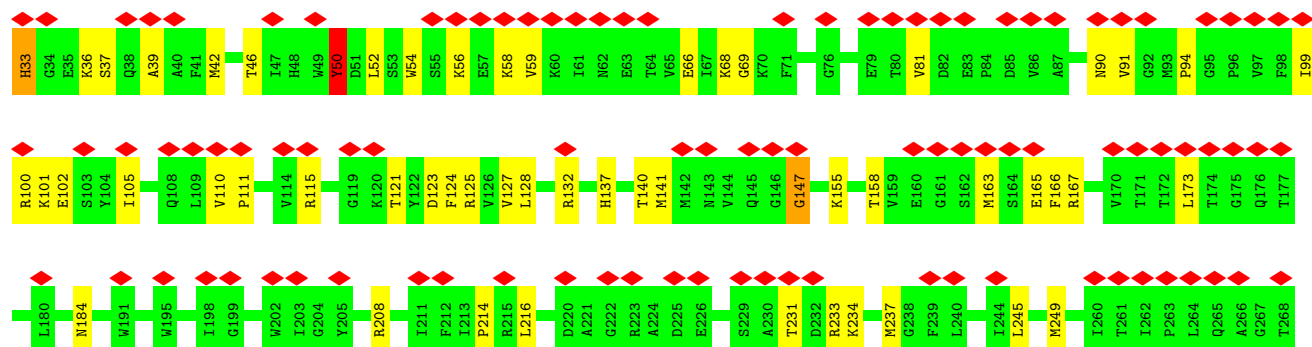
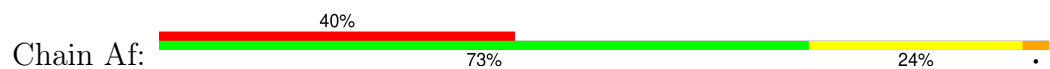


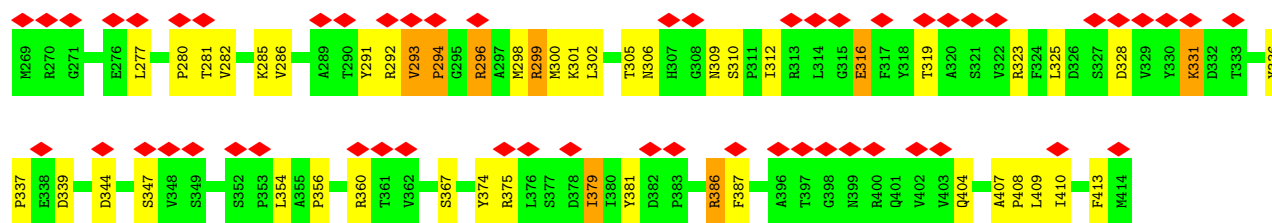


• Molecule 1: Particulate methane monooxygenase alpha subunit

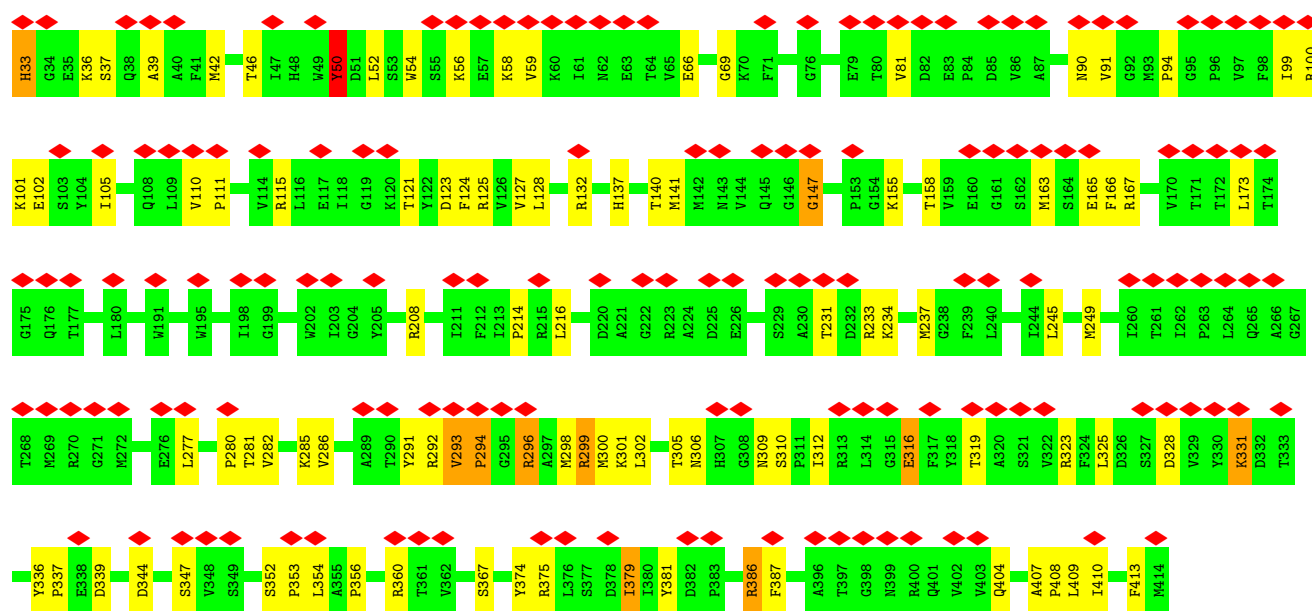
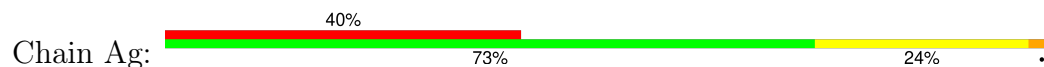


• Molecule 1: Particulate methane monooxygenase alpha subunit

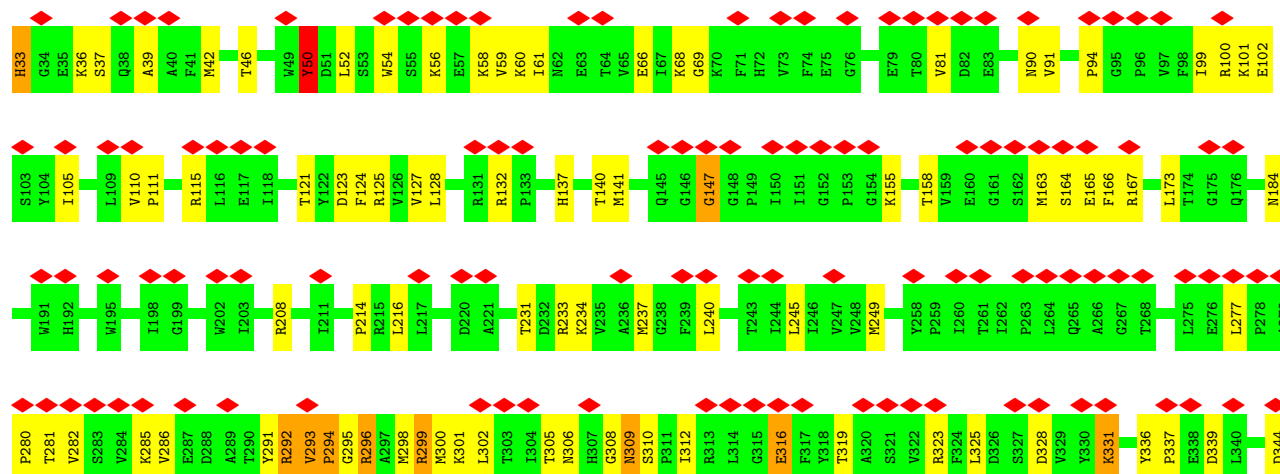
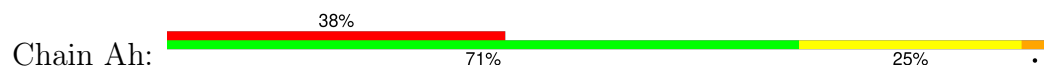




• Molecule 1: Particulate methane monooxygenase alpha subunit

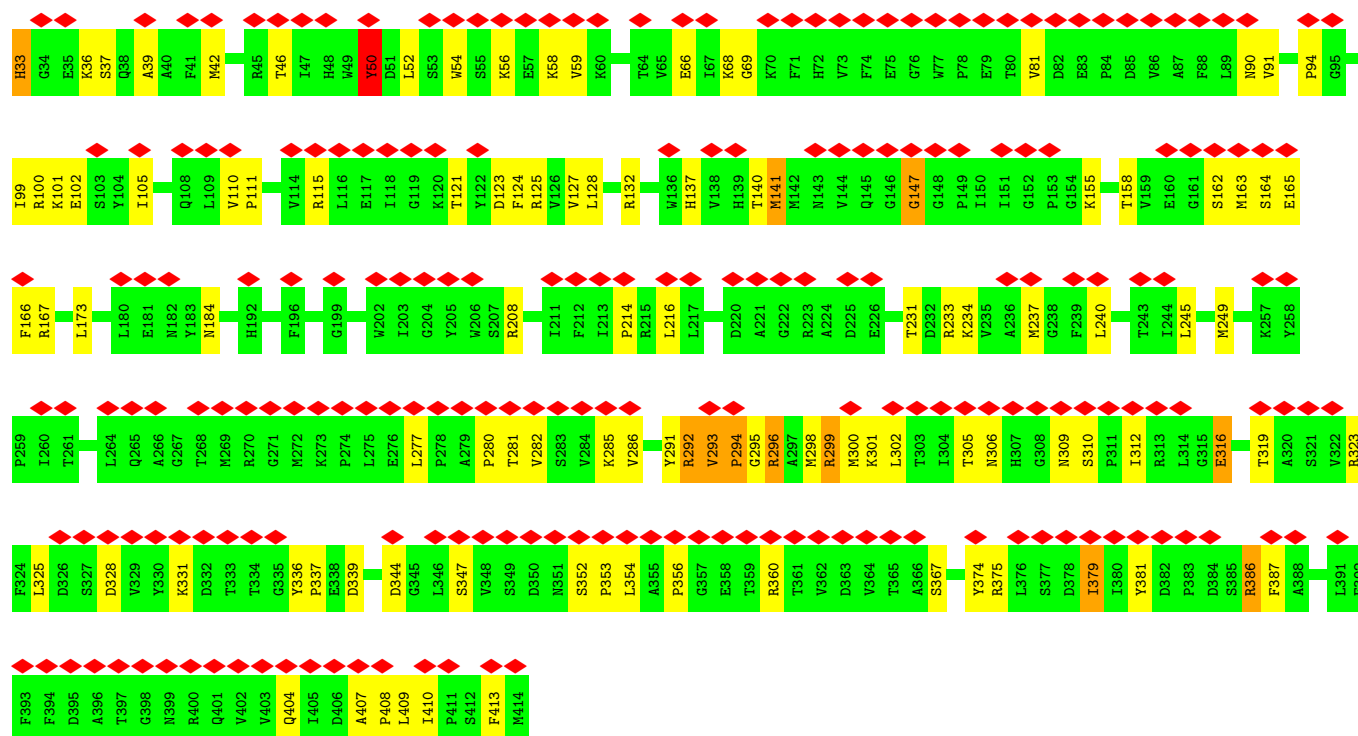
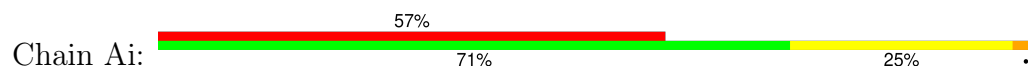


• Molecule 1: Particulate methane monooxygenase alpha subunit

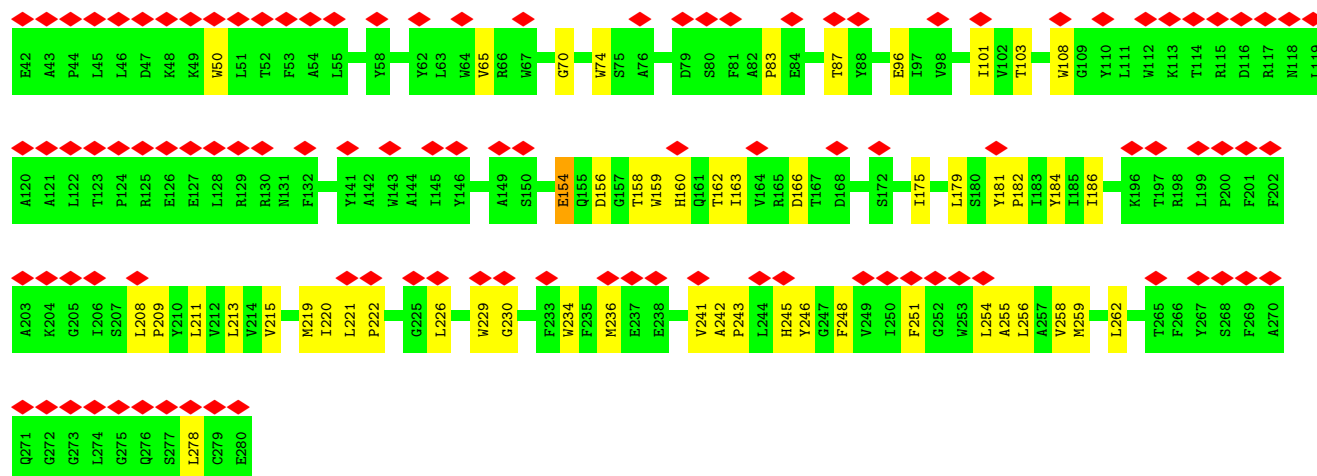
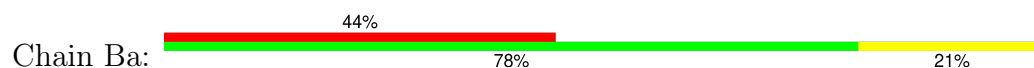




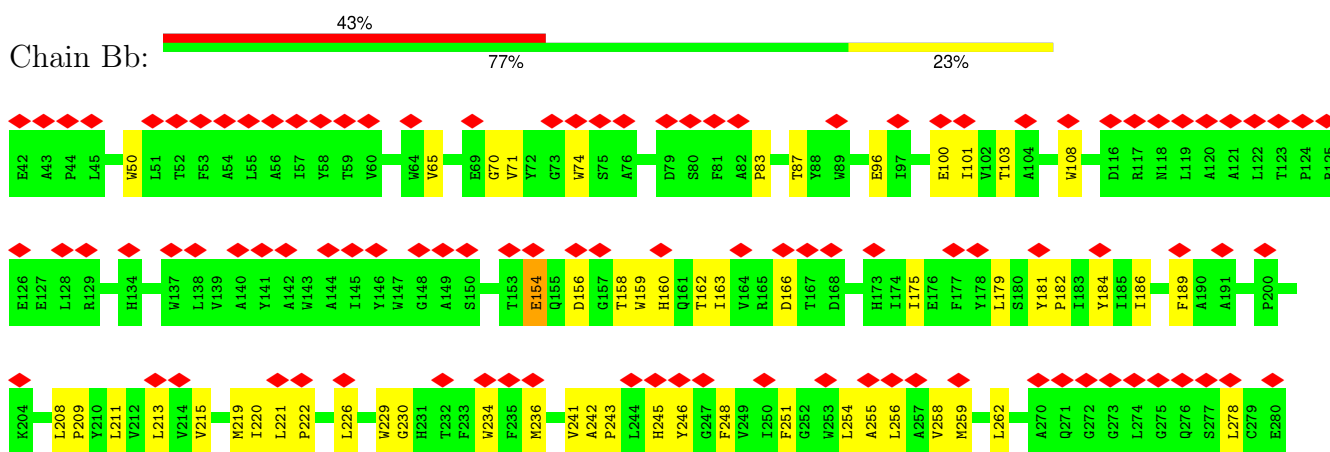
- Molecule 1: Particulate methane monooxygenase alpha subunit



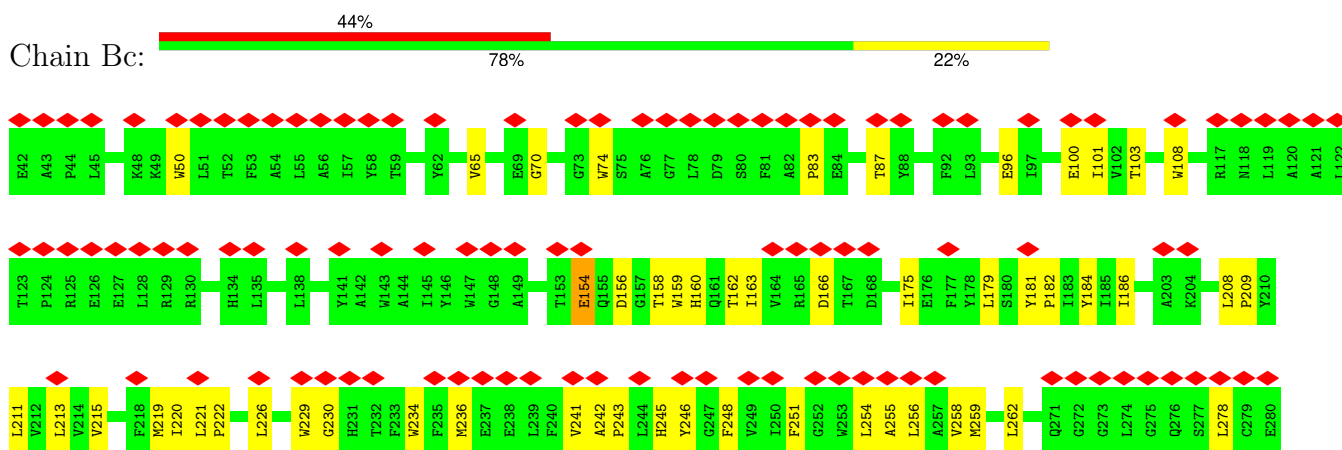
- Molecule 2: Particulate methane monooxygenase gamma subunit



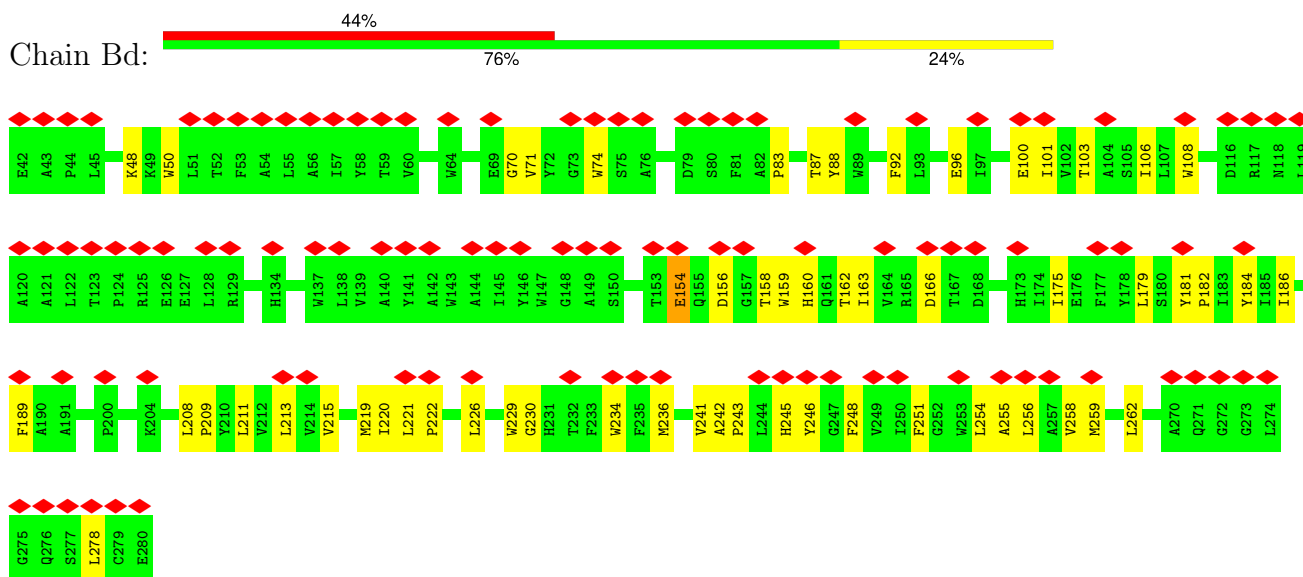
- Molecule 2: Particulate methane monooxygenase gamma subunit



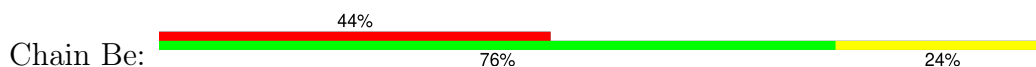
• Molecule 2: Particulate methane monooxygenase gamma subunit

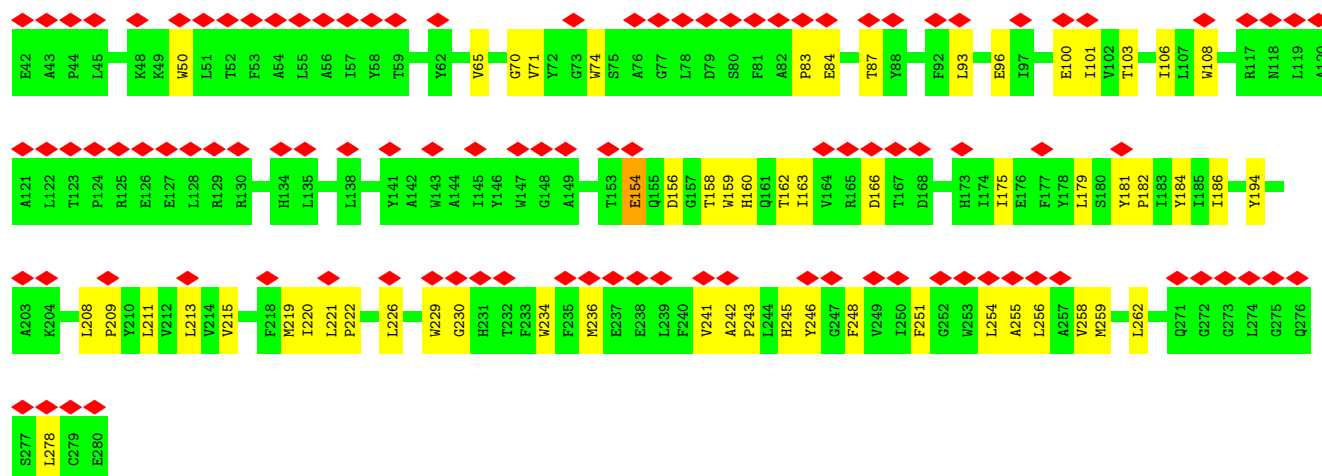


• Molecule 2: Particulate methane monooxygenase gamma subunit

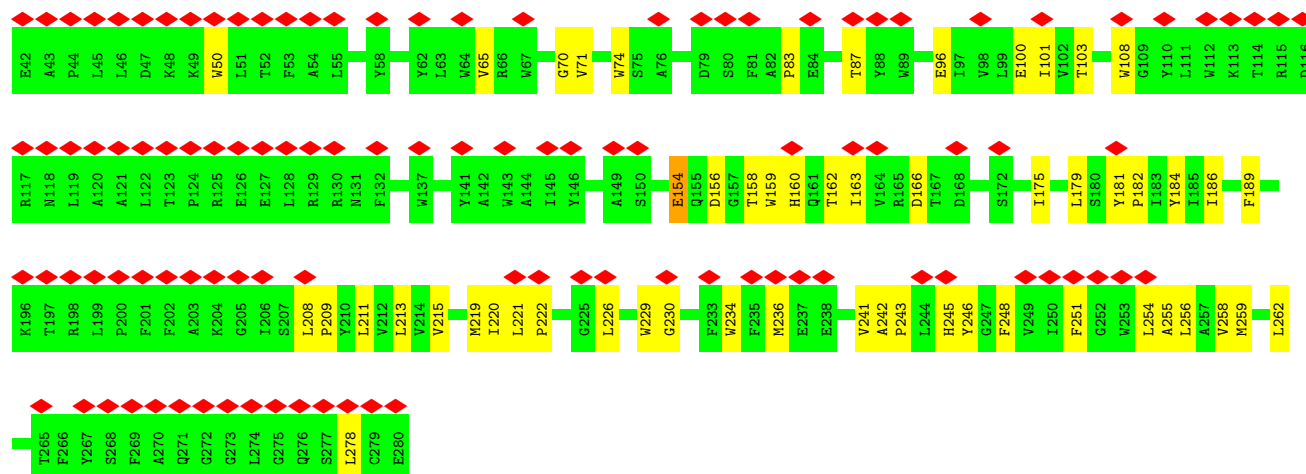
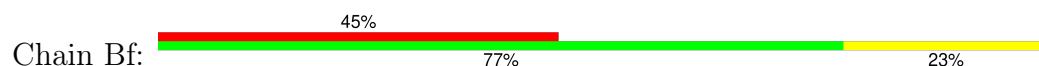


• Molecule 2: Particulate methane monooxygenase gamma subunit

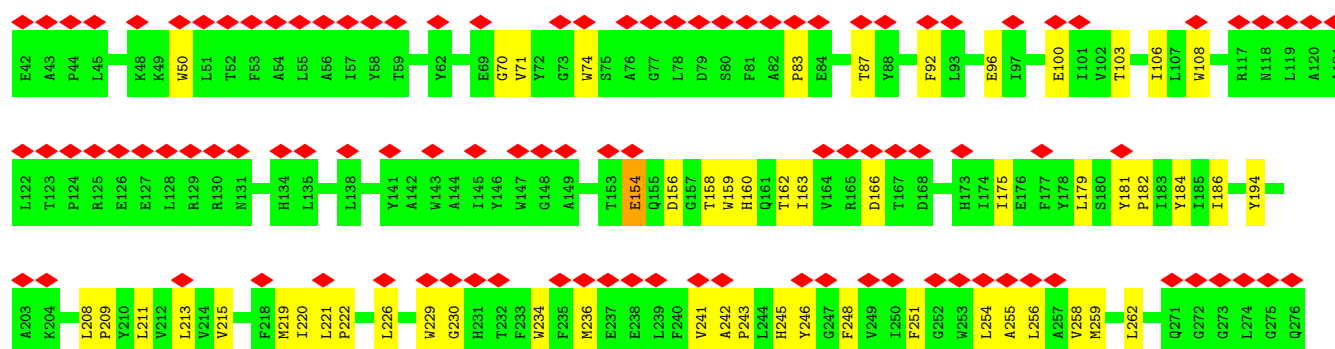
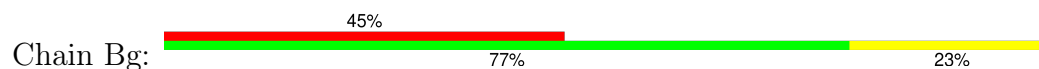


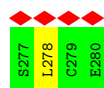


• Molecule 2: Particulate methane monooxygenase gamma subunit

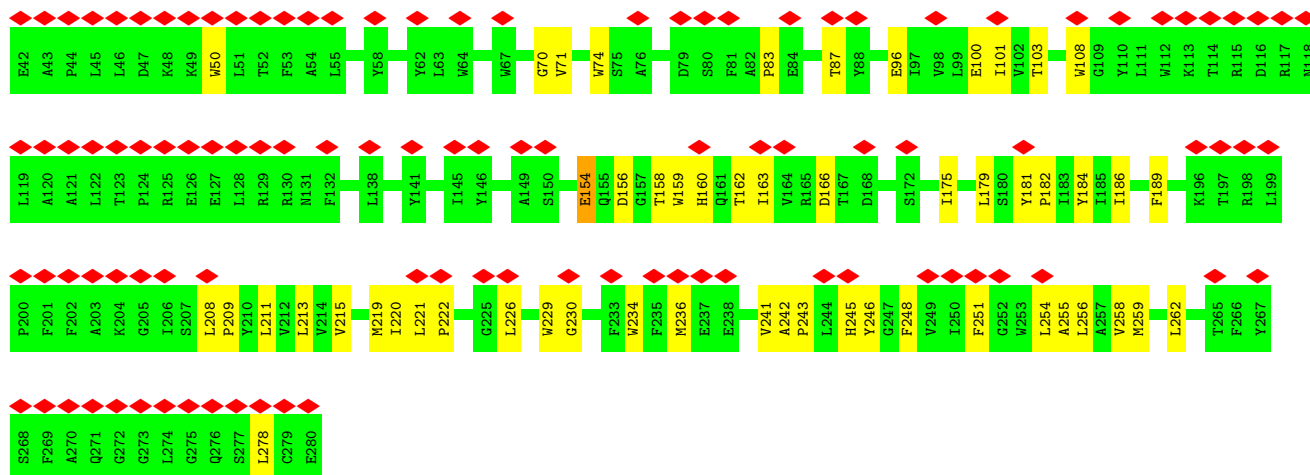
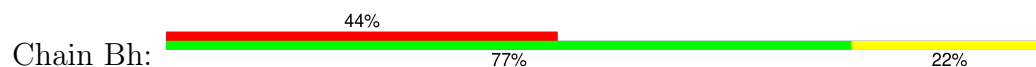


• Molecule 2: Particulate methane monooxygenase gamma subunit

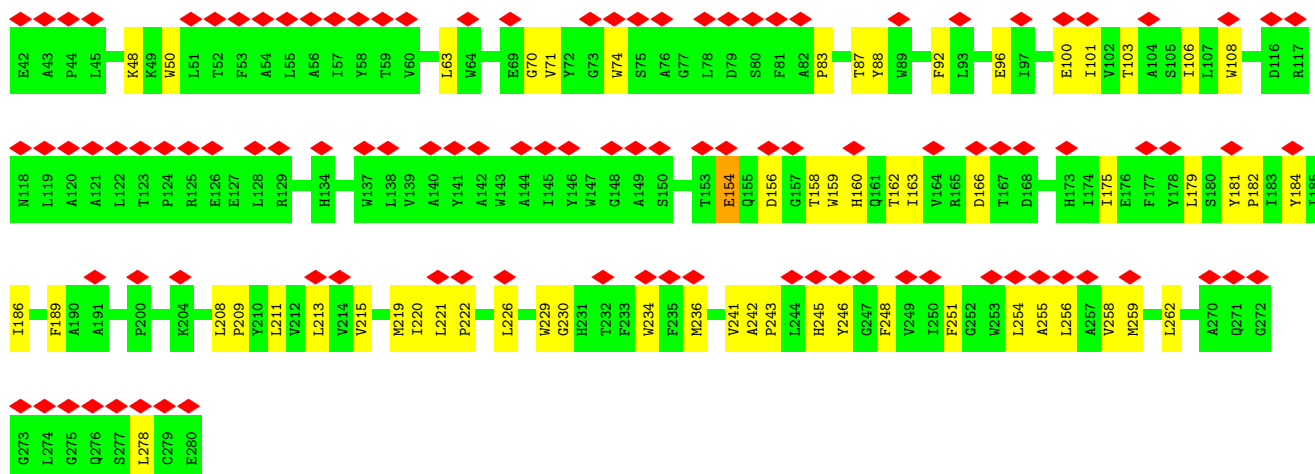
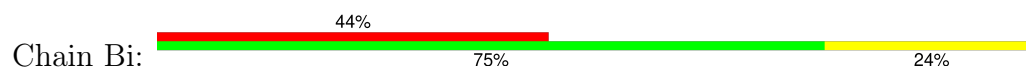




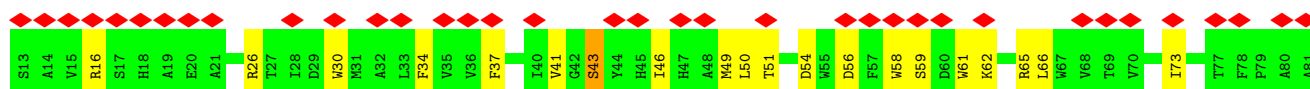
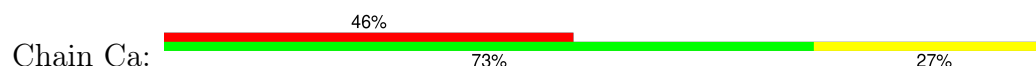
• Molecule 2: Particulate methane monooxygenase gamma subunit

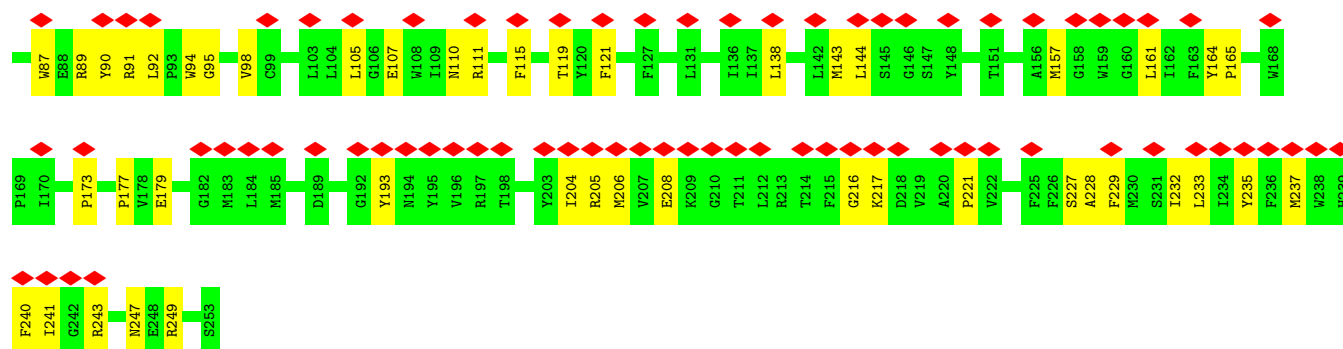


• Molecule 2: Particulate methane monooxygenase gamma subunit

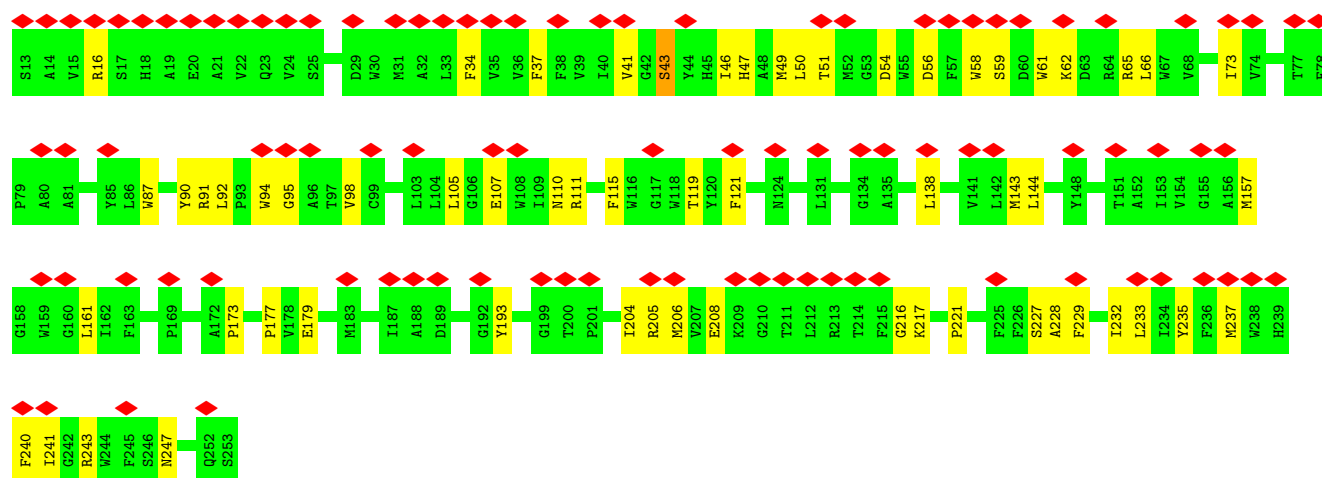
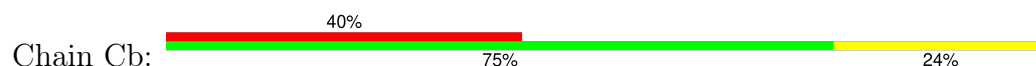


• Molecule 3: Particulate methane monooxygenase beta subunit

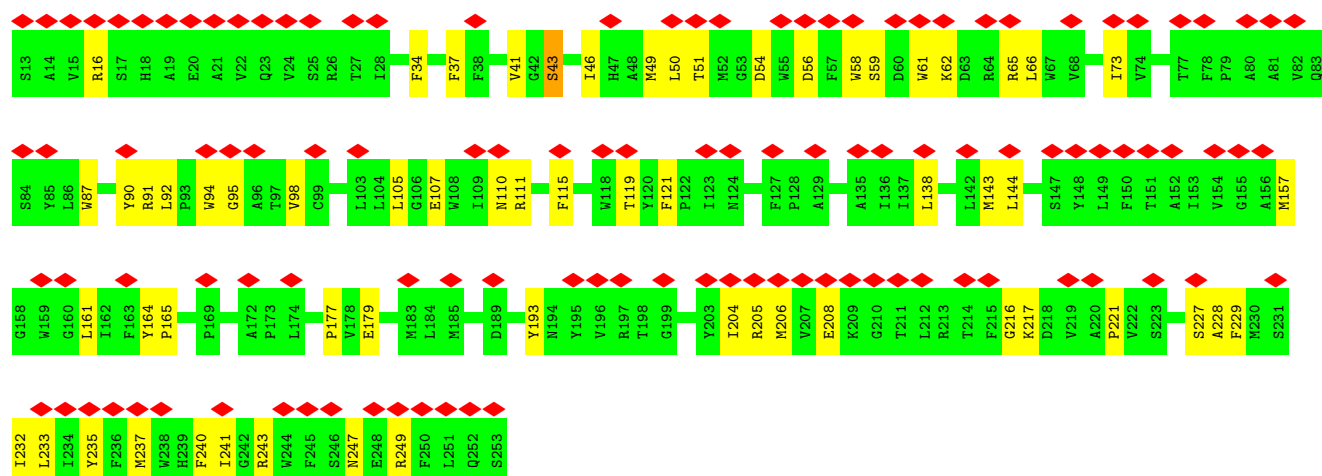
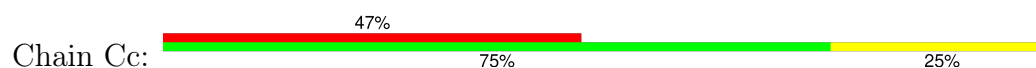




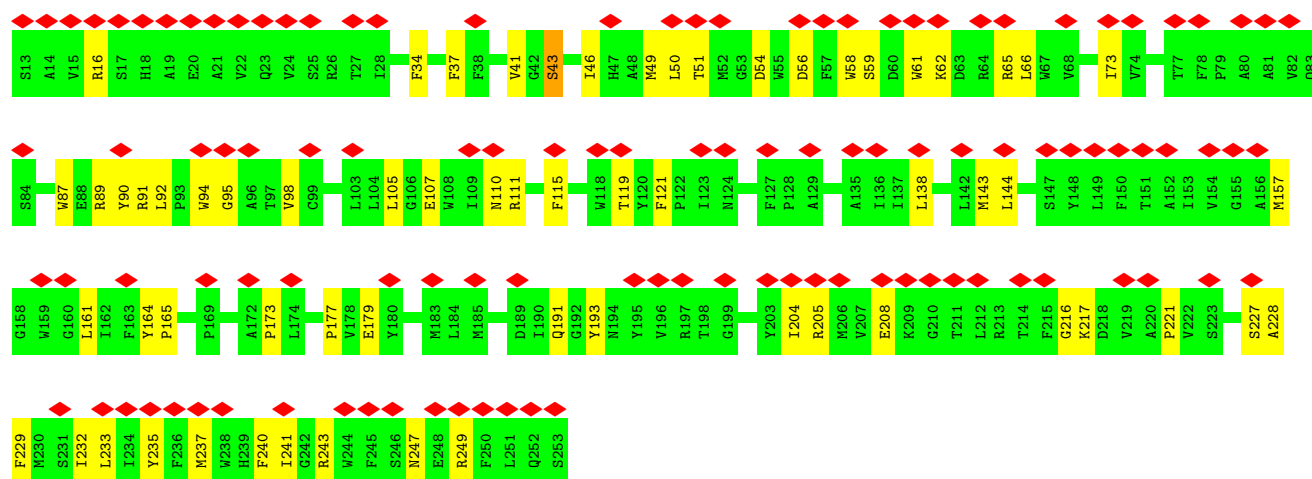
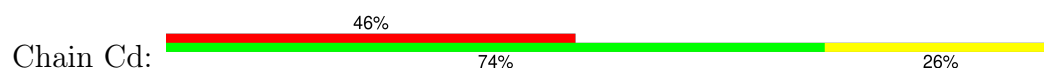
• Molecule 3: Particulate methane monooxygenase beta subunit



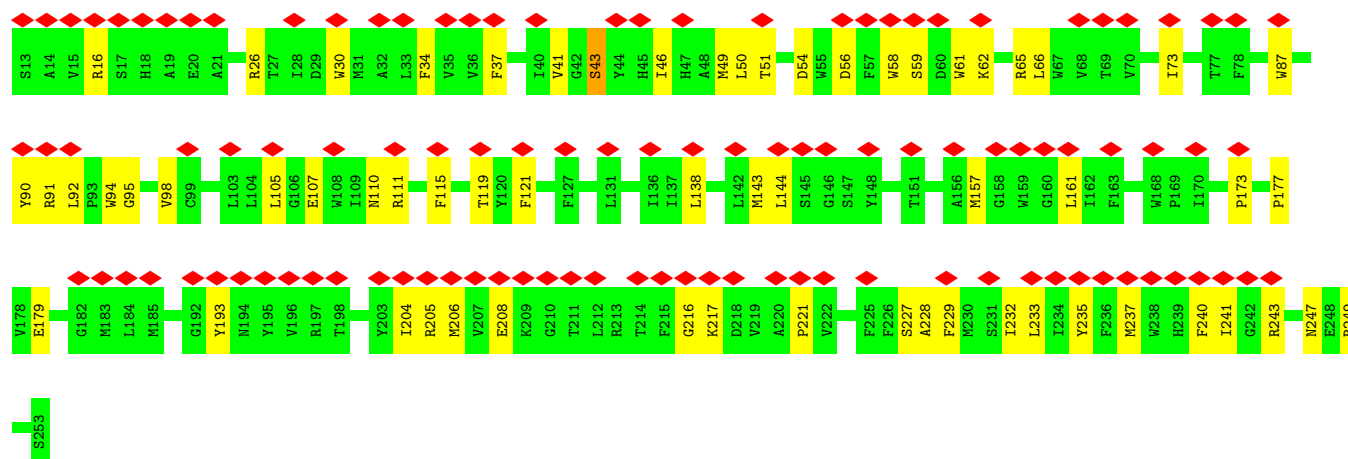
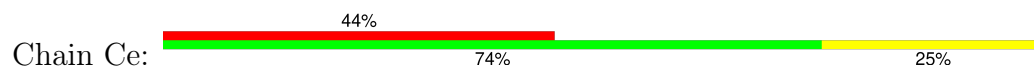
• Molecule 3: Particulate methane monooxygenase beta subunit



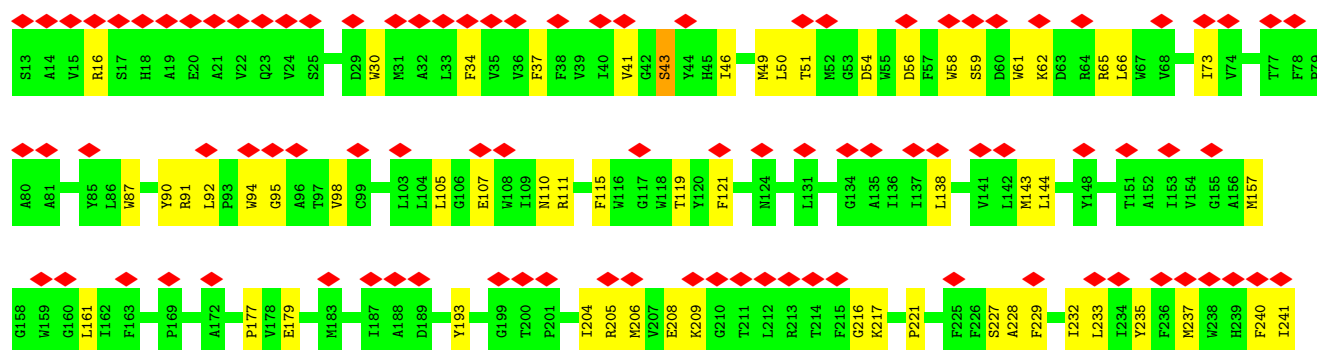
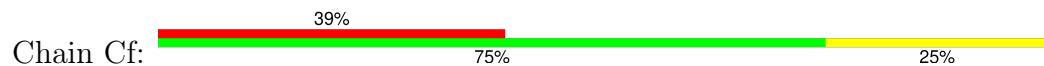
• Molecule 3: Particulate methane monooxygenase beta subunit

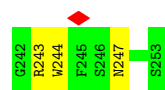


• Molecule 3: Particulate methane monooxygenase beta subunit

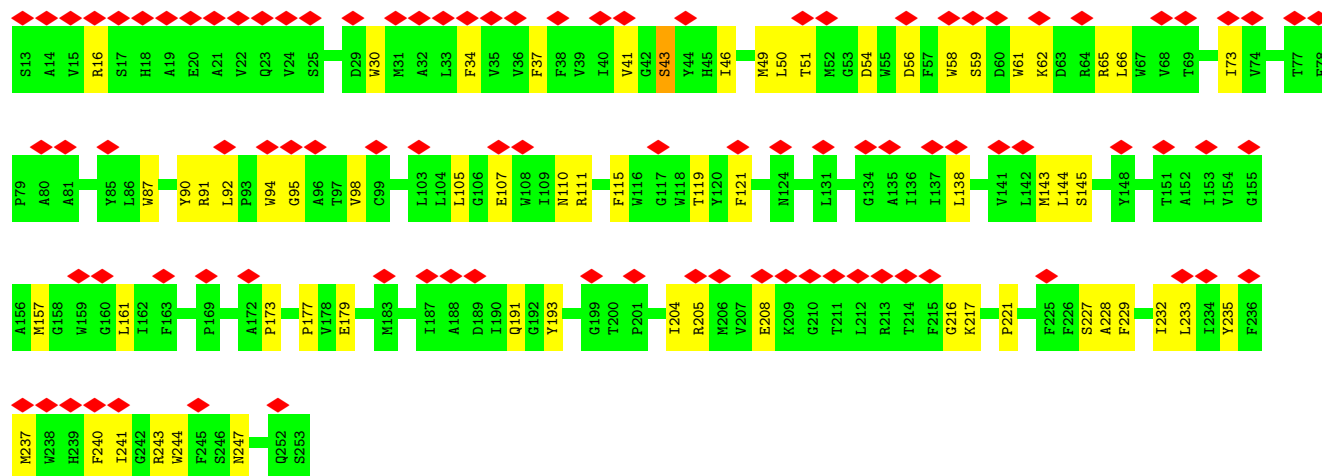
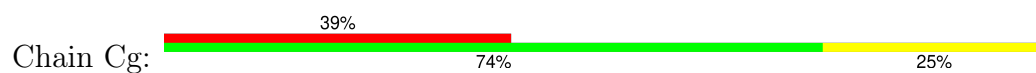


• Molecule 3: Particulate methane monooxygenase beta subunit

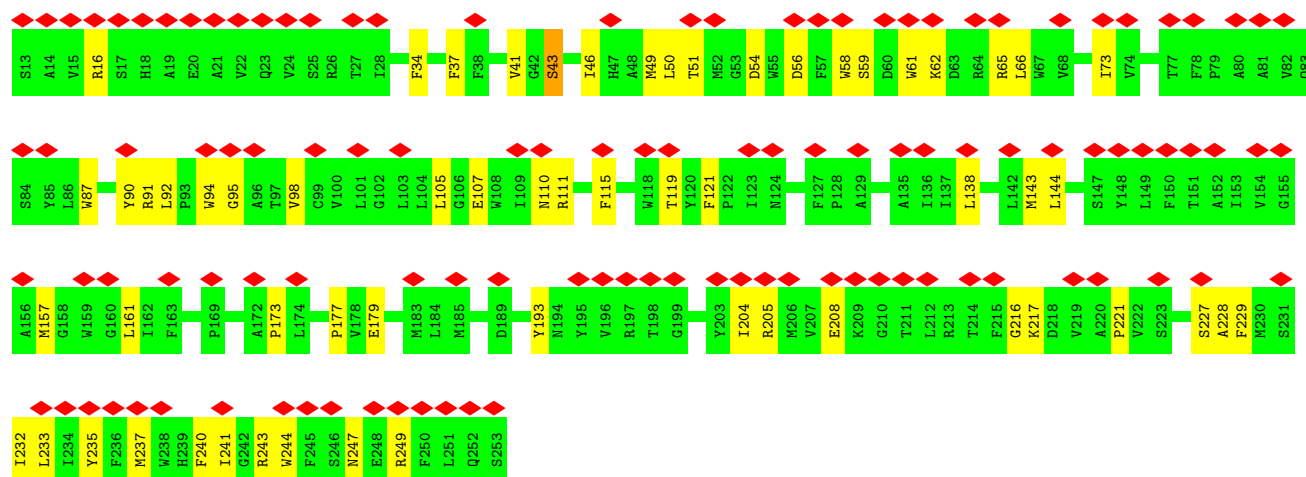
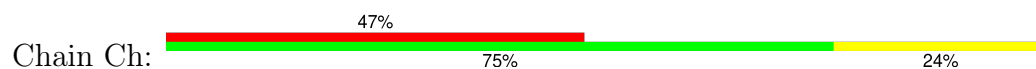




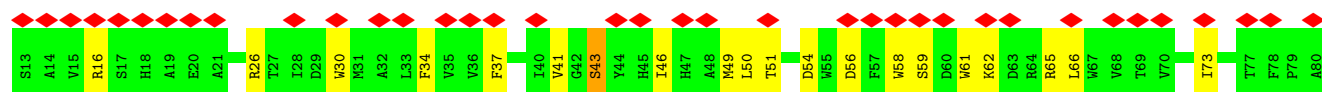
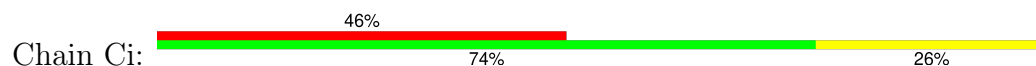
• Molecule 3: Particulate methane monooxygenase beta subunit

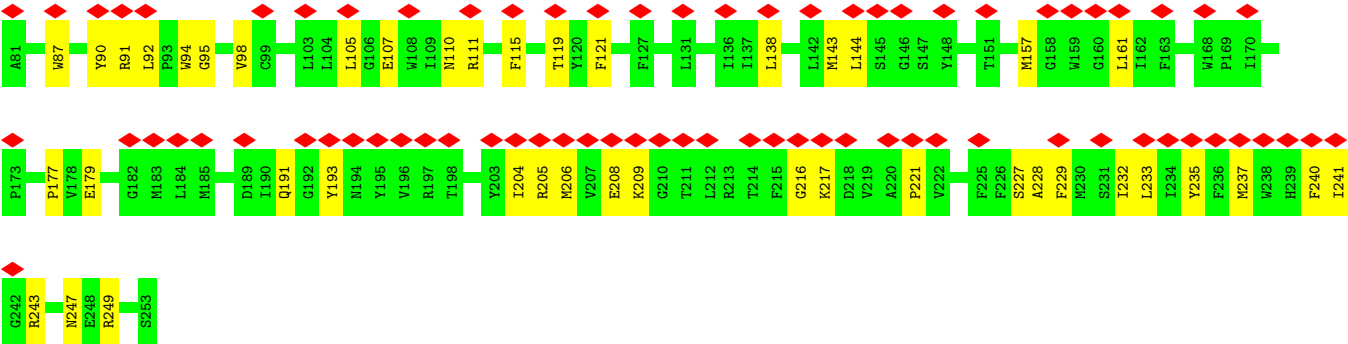


• Molecule 3: Particulate methane monooxygenase beta subunit



• Molecule 3: Particulate methane monooxygenase beta subunit





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	35000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOCONTINUUM (6k x 4k)	Depositor
Maximum map value	1.087	Depositor
Minimum map value	-0.585	Depositor
Average map value	0.024	Depositor
Map value standard deviation	0.067	Depositor
Recommended contour level	0.251	Depositor
Map size (Å)	342.144, 342.144, 342.144	wwPDB
Map dimensions	160, 160, 160	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.1384, 2.1384, 2.1384	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CU, A1A0P

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	Aa	0.58	0/3099	0.81	2/4215 (0.0%)
1	Ab	0.58	0/3099	0.81	2/4215 (0.0%)
1	Ac	0.58	0/3099	0.81	2/4215 (0.0%)
1	Ad	0.57	0/3099	0.81	2/4215 (0.0%)
1	Ae	0.58	0/3099	0.81	2/4215 (0.0%)
1	Af	0.58	0/3099	0.81	2/4215 (0.0%)
1	Ag	0.57	0/3099	0.81	2/4215 (0.0%)
1	Ah	0.58	0/3099	0.81	2/4215 (0.0%)
1	Ai	0.58	0/3099	0.81	2/4215 (0.0%)
2	Ba	0.18	0/2073	0.34	0/2841
2	Bb	0.18	0/2073	0.34	0/2841
2	Bc	0.18	0/2073	0.34	0/2841
2	Bd	0.18	0/2073	0.34	0/2841
2	Be	0.18	0/2073	0.34	0/2841
2	Bf	0.18	0/2073	0.34	0/2841
2	Bg	0.18	0/2073	0.34	0/2841
2	Bh	0.18	0/2073	0.34	0/2841
2	Bi	0.18	0/2073	0.34	0/2841
3	Ca	0.13	0/2052	0.31	0/2808
3	Cb	0.14	0/2052	0.31	0/2808
3	Cc	0.14	0/2052	0.31	0/2808
3	Cd	0.13	0/2052	0.31	0/2808
3	Ce	0.14	0/2052	0.31	0/2808
3	Cf	0.13	0/2052	0.31	0/2808
3	Cg	0.13	0/2052	0.31	0/2808
3	Ch	0.14	0/2052	0.31	0/2808
3	Ci	0.14	0/2052	0.31	0/2808
All	All	0.40	0/65016	0.58	18/88776 (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	Aa	0	8
1	Ab	0	8
1	Ac	0	8
1	Ad	0	8
1	Ae	0	8
1	Af	0	8
1	Ag	0	8
1	Ah	0	8
1	Ai	0	8
All	All	0	72

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ad	50	TYR	N-CA-CB	7.25	122.74	110.49
1	Ab	50	TYR	N-CA-CB	7.23	122.71	110.49
1	Ai	50	TYR	N-CA-CB	7.22	122.69	110.49
1	Af	50	TYR	N-CA-CB	7.22	122.69	110.49
1	Ah	50	TYR	N-CA-CB	7.21	122.68	110.49
1	Ac	50	TYR	N-CA-CB	7.21	122.68	110.49
1	Aa	50	TYR	N-CA-CB	7.21	122.67	110.49
1	Ae	50	TYR	N-CA-CB	7.21	122.67	110.49
1	Ag	50	TYR	N-CA-CB	7.19	122.65	110.49
1	Aa	50	TYR	CA-CB-CG	6.43	125.47	113.90
1	Ag	50	TYR	CA-CB-CG	6.43	125.47	113.90
1	Ae	50	TYR	CA-CB-CG	6.42	125.45	113.90
1	Af	50	TYR	CA-CB-CG	6.42	125.45	113.90
1	Ac	50	TYR	CA-CB-CG	6.41	125.44	113.90
1	Ab	50	TYR	CA-CB-CG	6.41	125.44	113.90
1	Ah	50	TYR	CA-CB-CG	6.41	125.43	113.90
1	Ai	50	TYR	CA-CB-CG	6.39	125.41	113.90
1	Ad	50	TYR	CA-CB-CG	6.39	125.40	113.90

There are no chirality outliers.

All (72) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	Aa	292	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	Aa	294	PRO	Peptide
1	Aa	296	ARG	Sidechain
1	Aa	299	ARG	Sidechain
1	Aa	323	ARG	Sidechain
1	Aa	360	ARG	Sidechain
1	Aa	375	ARG	Sidechain
1	Aa	386	ARG	Sidechain
1	Ab	292	ARG	Sidechain
1	Ab	294	PRO	Peptide
1	Ab	296	ARG	Sidechain
1	Ab	299	ARG	Sidechain
1	Ab	323	ARG	Sidechain
1	Ab	360	ARG	Sidechain
1	Ab	375	ARG	Sidechain
1	Ab	386	ARG	Sidechain
1	Ac	292	ARG	Sidechain
1	Ac	294	PRO	Peptide
1	Ac	296	ARG	Sidechain
1	Ac	299	ARG	Sidechain
1	Ac	323	ARG	Sidechain
1	Ac	360	ARG	Sidechain
1	Ac	375	ARG	Sidechain
1	Ac	386	ARG	Sidechain
1	Ad	292	ARG	Sidechain
1	Ad	294	PRO	Peptide
1	Ad	296	ARG	Sidechain
1	Ad	299	ARG	Sidechain
1	Ad	323	ARG	Sidechain
1	Ad	360	ARG	Sidechain
1	Ad	375	ARG	Sidechain
1	Ad	386	ARG	Sidechain
1	Ae	292	ARG	Sidechain
1	Ae	294	PRO	Peptide
1	Ae	296	ARG	Sidechain
1	Ae	299	ARG	Sidechain
1	Ae	323	ARG	Sidechain
1	Ae	360	ARG	Sidechain
1	Ae	375	ARG	Sidechain
1	Ae	386	ARG	Sidechain
1	Af	292	ARG	Sidechain
1	Af	294	PRO	Peptide
1	Af	296	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	Af	299	ARG	Sidechain
1	Af	323	ARG	Sidechain
1	Af	360	ARG	Sidechain
1	Af	375	ARG	Sidechain
1	Af	386	ARG	Sidechain
1	Ag	292	ARG	Sidechain
1	Ag	294	PRO	Peptide
1	Ag	296	ARG	Sidechain
1	Ag	299	ARG	Sidechain
1	Ag	323	ARG	Sidechain
1	Ag	360	ARG	Sidechain
1	Ag	375	ARG	Sidechain
1	Ag	386	ARG	Sidechain
1	Ah	292	ARG	Sidechain
1	Ah	294	PRO	Peptide
1	Ah	296	ARG	Sidechain
1	Ah	299	ARG	Sidechain
1	Ah	323	ARG	Sidechain
1	Ah	360	ARG	Sidechain
1	Ah	375	ARG	Sidechain
1	Ah	386	ARG	Sidechain
1	Ai	292	ARG	Sidechain
1	Ai	294	PRO	Peptide
1	Ai	296	ARG	Sidechain
1	Ai	299	ARG	Sidechain
1	Ai	323	ARG	Sidechain
1	Ai	360	ARG	Sidechain
1	Ai	375	ARG	Sidechain
1	Ai	386	ARG	Sidechain

5.2 Too-close contacts ⓘ

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	Aa	3017	0	2977	93	0
1	Ab	3017	0	2977	92	0
1	Ac	3017	0	2977	95	0
1	Ad	3017	0	2977	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ae	3017	0	2977	92	0
1	Af	3017	0	2977	89	0
1	Ag	3017	0	2977	88	0
1	Ah	3017	0	2977	88	0
1	Ai	3017	0	2977	87	0
2	Ba	1993	0	1922	93	0
2	Bb	1993	0	1922	93	0
2	Bc	1993	0	1922	92	0
2	Bd	1993	0	1922	97	0
2	Be	1993	0	1922	96	0
2	Bf	1993	0	1922	94	0
2	Bg	1993	0	1922	94	0
2	Bh	1993	0	1922	94	0
2	Bi	1993	0	1922	103	0
3	Ca	1976	0	1934	93	0
3	Cb	1976	0	1934	94	0
3	Cc	1976	0	1934	93	0
3	Cd	1976	0	1934	96	0
3	Ce	1976	0	1934	93	0
3	Cf	1976	0	1934	93	0
3	Cg	1976	0	1934	94	0
3	Ch	1976	0	1934	95	0
3	Ci	1976	0	1934	94	0
4	Aa	1	0	0	0	0
4	Ab	1	0	0	0	0
4	Ac	1	0	0	0	0
4	Ad	1	0	0	0	0
4	Ae	1	0	0	0	0
4	Af	1	0	0	0	0
4	Ag	1	0	0	0	0
4	Ah	1	0	0	0	0
4	Ai	1	0	0	0	0
4	Ba	1	0	0	0	0
4	Bd	1	0	0	0	0
4	Bg	1	0	0	0	0
5	Aa	96	146	0	33	0
5	Ab	96	146	0	35	0
5	Ac	144	219	0	33	0
5	Ad	96	146	0	34	0
5	Ae	144	219	0	32	0
5	Af	144	219	0	33	0
5	Ag	144	219	0	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Ah	144	219	0	25	0
5	Ai	144	219	0	27	0
5	Ba	432	657	0	88	0
5	Bb	432	657	0	89	0
5	Bc	384	584	0	85	0
5	Bd	384	584	0	95	0
5	Be	432	657	0	94	0
5	Bf	384	584	0	91	0
5	Bg	384	584	0	92	0
5	Bh	384	584	0	94	0
5	Bi	384	584	0	98	0
5	Ca	384	584	0	114	0
5	Cb	384	584	0	116	0
5	Cc	384	584	0	117	0
5	Cd	384	584	0	115	0
5	Ce	384	584	0	114	0
5	Cf	384	584	0	117	0
5	Cg	384	584	0	122	0
5	Ch	384	584	0	118	0
5	Ci	384	584	0	116	0
6	Aa	119	0	0	4	0
6	Ab	117	0	0	3	0
6	Ac	116	0	0	4	0
6	Ad	120	0	0	4	0
6	Ae	118	0	0	3	0
6	Af	116	0	0	4	0
6	Ag	119	0	0	4	0
6	Ah	118	0	0	4	0
6	Ai	117	0	0	4	0
6	Ba	25	0	0	0	0
6	Bb	26	0	0	0	0
6	Bc	26	0	0	0	0
6	Bd	25	0	0	0	0
6	Be	26	0	0	0	0
6	Bf	26	0	0	0	0
6	Bg	25	0	0	0	0
6	Bh	26	0	0	0	0
6	Bi	26	0	0	0	0
6	Ca	47	0	0	1	0
6	Cb	45	0	0	1	0
6	Cc	45	0	0	1	0
6	Cd	46	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	Ce	44	0	0	1	0
6	Cf	45	0	0	1	0
6	Cg	47	0	0	3	0
6	Ch	45	0	0	1	0
6	Ci	44	0	0	2	0
All	All	72793	12483	61497	2852	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 22.

All (2852) 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)
2:Bg:251:PHE:CD1	5:Ci:303:A1A0P:C33	1.75	1.69
2:Bd:251:PHE:CD1	5:Cf:303:A1A0P:C33	1.74	1.67
2:Bb:254:LEU:CD2	5:Cb:303:A1A0P:C48	1.75	1.65
2:Bb:251:PHE:CD1	5:Cb:303:A1A0P:C33	1.78	1.63
2:Bi:251:PHE:CD1	5:Cg:303:A1A0P:C33	1.75	1.63
5:Ca:302:A1A0P:C4	5:Ca:308:A1A0P:C19	1.76	1.62
2:Be:251:PHE:CD1	5:Ce:303:A1A0P:C33	1.75	1.62
2:Ba:251:PHE:CD1	5:Cc:303:A1A0P:C33	1.77	1.61
2:Bc:251:PHE:CD1	5:Ca:303:A1A0P:C33	1.78	1.60
5:Cc:302:A1A0P:C4	5:Cc:308:A1A0P:C19	1.76	1.59
5:Bb:307:A1A0P:C46	3:Cc:233:LEU:HD11	1.27	1.59
5:Bd:309:A1A0P:C46	3:Cd:233:LEU:HD11	1.31	1.59
5:Bi:308:A1A0P:C46	3:Ch:233:LEU:HD11	1.28	1.59
5:Cd:302:A1A0P:C4	5:Cd:308:A1A0P:C19	1.76	1.59
5:Cf:302:A1A0P:C4	5:Cf:308:A1A0P:C19	1.76	1.58
2:Bd:254:LEU:CD2	5:Cf:303:A1A0P:C48	1.75	1.58
2:Bi:254:LEU:CD2	5:Cg:303:A1A0P:C48	1.78	1.58
5:Ci:302:A1A0P:C4	5:Ci:308:A1A0P:C19	1.76	1.58
5:Bh:307:A1A0P:C46	3:Ci:233:LEU:HD11	1.31	1.57
5:Bc:308:A1A0P:C46	3:Cb:233:LEU:HD11	1.30	1.57
5:Ce:302:A1A0P:C4	5:Ce:308:A1A0P:C19	1.76	1.57
2:Be:254:LEU:CD2	5:Ce:303:A1A0P:C48	1.79	1.56
5:Ch:302:A1A0P:C4	5:Ch:308:A1A0P:C19	1.76	1.56
5:Bg:309:A1A0P:C46	3:Cg:233:LEU:HD11	1.35	1.56
5:Cb:302:A1A0P:C4	5:Cb:308:A1A0P:C19	1.76	1.56
5:Cg:302:A1A0P:C4	5:Cg:308:A1A0P:C19	1.76	1.56
5:Ba:309:A1A0P:C46	3:Ca:233:LEU:HD11	1.32	1.56
5:Be:308:A1A0P:C46	3:Cf:233:LEU:HD11	1.33	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bg:254:LEU:CD2	5:Ci:303:A1A0P:C48	1.81	1.55
2:Bc:254:LEU:CD2	5:Ca:303:A1A0P:C48	1.80	1.54
2:Bd:254:LEU:HD22	5:Cf:303:A1A0P:C48	1.33	1.53
3:Cg:221:PRO:HG3	5:Cg:305:A1A0P:C4	1.36	1.53
3:Cb:221:PRO:HG3	5:Cb:305:A1A0P:C4	1.38	1.52
5:Bf:307:A1A0P:C46	3:Ce:233:LEU:HD11	1.32	1.52
2:Bi:251:PHE:CE1	5:Cg:303:A1A0P:C33	1.89	1.52
2:Be:103:THR:CG2	5:Be:304:A1A0P:C33	1.88	1.52
5:Bd:309:A1A0P:C46	3:Cd:233:LEU:CD1	1.89	1.50
2:Be:251:PHE:CE1	5:Ce:303:A1A0P:C33	1.94	1.50
5:Be:308:A1A0P:C46	3:Cf:233:LEU:CD1	1.89	1.50
5:Bg:309:A1A0P:C46	3:Cg:233:LEU:CD1	1.89	1.50
5:Bi:308:A1A0P:C46	3:Ch:233:LEU:CD1	1.86	1.50
3:Cd:221:PRO:HG3	5:Cd:305:A1A0P:C4	1.41	1.50
3:Cc:221:PRO:HG3	5:Cc:305:A1A0P:C4	1.41	1.50
3:Ch:221:PRO:HG3	5:Ch:305:A1A0P:C7	1.40	1.49
3:Ce:221:PRO:HG3	5:Ce:305:A1A0P:C4	1.42	1.49
3:Cd:221:PRO:HG3	5:Cd:305:A1A0P:C7	1.41	1.49
2:Bd:251:PHE:CE1	5:Cf:303:A1A0P:C33	1.92	1.49
2:Bh:251:PHE:CE2	5:Bh:307:A1A0P:C48	1.93	1.49
3:Cf:221:PRO:HG3	5:Cf:305:A1A0P:C4	1.36	1.49
2:Bc:103:THR:CG2	5:Bc:304:A1A0P:C33	1.88	1.48
2:Bb:103:THR:HG21	5:Bb:304:A1A0P:C33	1.18	1.48
2:Bf:251:PHE:CE2	5:Bf:307:A1A0P:C48	1.96	1.48
5:Bb:307:A1A0P:C46	3:Cc:233:LEU:CD1	1.88	1.47
5:Ca:302:A1A0P:C7	5:Ca:308:A1A0P:C19	1.92	1.47
3:Ci:221:PRO:HG3	5:Ci:305:A1A0P:C4	1.44	1.47
2:Bg:251:PHE:CE1	5:Ci:303:A1A0P:C33	1.94	1.47
5:Cf:302:A1A0P:C7	5:Cf:308:A1A0P:C19	1.92	1.47
2:Bb:251:PHE:CE2	5:Bb:307:A1A0P:C48	1.96	1.46
2:Bb:254:LEU:HD22	5:Cb:303:A1A0P:C48	1.28	1.46
5:Bc:308:A1A0P:C46	3:Cb:233:LEU:CD1	1.87	1.46
2:Bh:241:VAL:O	5:Ch:304:A1A0P:C7	1.64	1.46
3:Ca:221:PRO:HG3	5:Ca:305:A1A0P:C4	1.38	1.46
5:Cb:302:A1A0P:C7	5:Cb:308:A1A0P:C19	1.92	1.46
2:Ba:251:PHE:CZ	5:Ba:309:A1A0P:C48	1.98	1.46
2:Ba:251:PHE:CE2	5:Ba:309:A1A0P:C48	1.95	1.46
5:Cd:302:A1A0P:C7	5:Cd:308:A1A0P:C19	1.92	1.46
2:Bi:254:LEU:HD22	5:Cg:303:A1A0P:C48	1.37	1.46
5:Ba:309:A1A0P:C46	3:Ca:233:LEU:CD1	1.91	1.46
2:Bf:103:THR:CG2	5:Bf:304:A1A0P:C33	1.92	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ch:221:PRO:HG3	5:Ch:305:A1A0P:C4	1.45	1.46
2:Bh:103:THR:CG2	5:Bh:304:A1A0P:C33	1.94	1.45
5:Bh:307:A1A0P:C46	3:Ci:233:LEU:CD1	1.94	1.45
2:Ba:103:THR:HG21	5:Ba:305:A1A0P:C33	1.15	1.45
5:Ch:302:A1A0P:C7	5:Ch:308:A1A0P:C19	1.92	1.45
5:Cc:302:A1A0P:C7	5:Cc:308:A1A0P:C19	1.92	1.44
2:Bb:251:PHE:CZ	5:Bb:307:A1A0P:C48	2.00	1.44
2:Bc:254:LEU:HD22	5:Ca:303:A1A0P:C48	1.34	1.44
5:Cg:302:A1A0P:C7	5:Cg:308:A1A0P:C19	1.92	1.44
2:Bb:103:THR:CG2	5:Bb:304:A1A0P:C33	1.93	1.43
2:Be:254:LEU:HD22	5:Ce:303:A1A0P:C48	1.36	1.43
5:Ca:302:A1A0P:O18	5:Cb:308:A1A0P:C7	1.66	1.43
5:Ce:302:A1A0P:C7	5:Ce:308:A1A0P:C19	1.93	1.43
2:Bc:251:PHE:CE1	5:Ca:303:A1A0P:C33	1.99	1.43
2:Bh:251:PHE:CZ	5:Bh:307:A1A0P:C48	2.02	1.43
5:Cg:302:A1A0P:O18	5:Ch:308:A1A0P:C7	1.66	1.43
5:Ci:302:A1A0P:C7	5:Ci:308:A1A0P:C19	1.92	1.43
2:Ba:103:THR:CG2	5:Ba:305:A1A0P:C33	1.94	1.43
2:Bg:103:THR:CG2	5:Bg:305:A1A0P:C33	1.85	1.43
5:Cd:302:A1A0P:O18	5:Ce:308:A1A0P:C7	1.67	1.42
3:Cf:221:PRO:HG3	5:Cf:305:A1A0P:C7	1.48	1.42
5:Ca:308:A1A0P:C7	5:Cc:302:A1A0P:O18	1.67	1.42
3:Cc:221:PRO:HG3	5:Cc:305:A1A0P:C7	1.49	1.42
5:Cd:308:A1A0P:C7	5:Cf:302:A1A0P:O18	1.66	1.42
5:Ch:302:A1A0P:O18	5:Ci:308:A1A0P:C7	1.67	1.42
2:Bc:251:PHE:CE2	5:Bc:308:A1A0P:C48	2.02	1.42
2:Be:103:THR:HG21	5:Be:304:A1A0P:C33	1.14	1.42
2:Bb:251:PHE:CE1	5:Cb:303:A1A0P:C33	2.02	1.41
5:Bf:307:A1A0P:C46	3:Ce:233:LEU:CD1	1.93	1.41
5:Cf:302:A1A0P:C7	5:Cf:308:A1A0P:C20	1.99	1.41
1:Ad:231:THR:CG2	5:Ad:502:A1A0P:O5	1.66	1.41
2:Ba:251:PHE:CE1	5:Cc:303:A1A0P:C33	2.03	1.41
2:Bc:251:PHE:CZ	5:Bc:308:A1A0P:C48	2.04	1.41
2:Bf:251:PHE:CZ	5:Bf:307:A1A0P:C48	2.03	1.41
5:Ci:302:A1A0P:C7	5:Ci:308:A1A0P:C20	1.99	1.41
2:Bf:241:VAL:O	5:Cd:304:A1A0P:C7	1.67	1.40
5:Ch:302:A1A0P:C7	5:Ch:308:A1A0P:C20	1.99	1.40
3:Ci:221:PRO:HG3	5:Ci:305:A1A0P:C7	1.50	1.40
5:Cb:302:A1A0P:O18	5:Cc:308:A1A0P:C7	1.67	1.40
5:Cg:302:A1A0P:C7	5:Cg:308:A1A0P:C20	1.99	1.40
5:Cc:302:A1A0P:C7	5:Cc:308:A1A0P:C20	1.99	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cb:221:PRO:HG3	5:Cb:305:A1A0P:C7	1.50	1.39
3:Ca:221:PRO:HG3	5:Ca:305:A1A0P:C7	1.53	1.39
5:Cd:302:A1A0P:C7	5:Cd:308:A1A0P:C20	1.99	1.39
5:Ce:302:A1A0P:O18	5:Cf:308:A1A0P:C7	1.67	1.39
5:Ca:302:A1A0P:C7	5:Ca:308:A1A0P:C20	1.99	1.39
2:Bg:103:THR:HG21	5:Bg:305:A1A0P:C33	1.12	1.39
3:Ce:221:PRO:HG3	5:Ce:305:A1A0P:C7	1.49	1.39
5:Cg:308:A1A0P:C7	5:Ci:302:A1A0P:O18	1.67	1.39
2:Bb:241:VAL:O	5:Cb:304:A1A0P:C7	1.71	1.38
5:Cb:302:A1A0P:C7	5:Cb:308:A1A0P:C20	1.98	1.38
5:Ce:302:A1A0P:C7	5:Ce:308:A1A0P:C20	1.99	1.38
2:Bg:254:LEU:HD22	5:Ci:303:A1A0P:C48	1.39	1.38
2:Bd:103:THR:CG2	5:Bd:305:A1A0P:C33	2.00	1.38
2:Be:251:PHE:CE2	5:Be:308:A1A0P:C48	2.05	1.38
3:Cg:221:PRO:HG3	5:Cg:305:A1A0P:C7	1.51	1.38
2:Bd:251:PHE:CE2	5:Bd:309:A1A0P:C48	2.05	1.38
2:Be:251:PHE:CZ	5:Be:308:A1A0P:C48	2.07	1.38
5:Cd:308:A1A0P:C7	5:Cf:302:A1A0P:C17	2.03	1.37
2:Bi:103:THR:CG2	5:Bi:304:A1A0P:C33	1.97	1.37
5:Ca:302:A1A0P:C17	5:Cb:308:A1A0P:C7	2.03	1.37
5:Cb:302:A1A0P:C17	5:Cc:308:A1A0P:C7	2.04	1.36
2:Bc:103:THR:HG21	5:Bc:304:A1A0P:C33	1.12	1.36
2:Bg:251:PHE:CE2	5:Bg:309:A1A0P:C48	2.07	1.36
5:Ch:302:A1A0P:C17	5:Ci:308:A1A0P:C7	2.04	1.36
5:Ca:308:A1A0P:C7	5:Cc:302:A1A0P:C17	2.04	1.35
5:Cd:302:A1A0P:C17	5:Ce:308:A1A0P:C7	2.04	1.35
2:Bg:251:PHE:CZ	5:Bg:309:A1A0P:C48	2.08	1.35
5:Cg:302:A1A0P:C17	5:Ch:308:A1A0P:C7	2.03	1.35
2:Bd:241:VAL:O	5:Cf:304:A1A0P:C7	1.75	1.34
1:Ab:234:LYS:HD2	5:Ab:502:A1A0P:O18	1.16	1.34
1:Ag:165:GLU:HA	1:Ag:167:ARG:NH1	1.43	1.34
2:Bf:103:THR:HG21	5:Bf:304:A1A0P:C33	1.18	1.34
5:Bf:307:A1A0P:C24	5:Ce:304:A1A0P:C26	2.05	1.34
2:Bi:246:TYR:OH	5:Cg:304:A1A0P:C40	1.75	1.34
5:Bc:308:A1A0P:C24	5:Cb:304:A1A0P:C26	2.05	1.33
2:Bd:251:PHE:CZ	5:Bd:309:A1A0P:C48	2.11	1.33
2:Bf:242:ALA:HA	5:Cd:304:A1A0P:O5	1.28	1.33
2:Bi:241:VAL:O	5:Cg:304:A1A0P:C7	1.73	1.33
2:Bi:251:PHE:CE2	5:Bi:308:A1A0P:C48	2.09	1.33
5:Bi:308:A1A0P:C24	5:Ch:304:A1A0P:C26	2.05	1.33
5:Be:308:A1A0P:C24	5:Cf:304:A1A0P:C26	2.05	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ce:302:A1A0P:C17	5:Cf:308:A1A0P:C7	2.04	1.33
2:Be:241:VAL:O	5:Ce:304:A1A0P:C7	1.77	1.33
1:Ai:234:LYS:HD2	5:Ai:502:A1A0P:O18	1.29	1.33
5:Bg:309:A1A0P:C24	5:Cg:304:A1A0P:C26	2.05	1.33
2:Bh:103:THR:HG21	5:Bh:304:A1A0P:C33	1.21	1.33
2:Bh:246:TYR:OH	5:Ch:304:A1A0P:C40	1.76	1.33
1:Ad:165:GLU:HA	1:Ad:167:ARG:NH1	1.43	1.32
2:Ba:241:VAL:O	5:Cc:304:A1A0P:C7	1.76	1.32
5:Ba:309:A1A0P:C24	5:Ca:304:A1A0P:C26	2.05	1.32
5:Cg:308:A1A0P:C7	5:Ci:302:A1A0P:C17	2.04	1.32
5:Bi:308:A1A0P:C47	3:Ch:233:LEU:HD11	1.59	1.32
1:Ag:231:THR:CG2	5:Ag:502:A1A0P:O5	1.78	1.32
5:Bb:307:A1A0P:C24	5:Cc:304:A1A0P:C26	2.05	1.32
1:Af:231:THR:CG2	5:Af:502:A1A0P:O5	1.78	1.32
5:Bd:309:A1A0P:C24	5:Cd:304:A1A0P:C26	2.05	1.32
5:Bh:307:A1A0P:C24	5:Ci:304:A1A0P:C26	2.05	1.32
1:Af:58:LYS:CD	1:Af:158:THR:HB	1.57	1.31
1:Aa:234:LYS:HD2	5:Aa:502:A1A0P:O18	1.23	1.31
1:Ab:231:THR:CG2	5:Ab:502:A1A0P:O5	1.76	1.31
1:Ac:231:THR:CG2	5:Ac:502:A1A0P:O5	1.78	1.31
1:Ae:231:THR:CG2	5:Ae:502:A1A0P:O5	1.78	1.31
2:Bi:103:THR:HG21	5:Bi:304:A1A0P:C33	1.32	1.31
1:Aa:165:GLU:HA	1:Aa:167:ARG:NH1	1.43	1.31
1:Ai:237:MET:HG2	5:Ai:503:A1A0P:C20	1.59	1.31
5:Ch:302:A1A0P:O5	5:Ch:308:A1A0P:C19	1.79	1.31
1:Ah:58:LYS:CD	1:Ah:158:THR:HB	1.57	1.31
1:Ai:165:GLU:HA	1:Ai:167:ARG:NH1	1.43	1.31
2:Be:241:VAL:O	5:Ca:304:A1A0P:C7	1.78	1.31
2:Bd:246:TYR:OH	5:Cf:304:A1A0P:C40	1.78	1.31
5:Bf:307:A1A0P:C22	5:Ce:304:A1A0P:C24	2.09	1.30
5:Bi:308:A1A0P:C22	5:Ch:304:A1A0P:C24	2.09	1.30
1:Ae:165:GLU:HA	1:Ae:167:ARG:NH1	1.43	1.30
1:Af:165:GLU:HA	1:Af:167:ARG:NH1	1.43	1.30
2:Bf:246:TYR:OH	5:Cd:304:A1A0P:C40	1.78	1.30
5:Bh:307:A1A0P:C22	5:Ci:304:A1A0P:C24	2.09	1.30
5:Bg:309:A1A0P:C22	5:Cg:304:A1A0P:C24	2.09	1.30
1:Ae:58:LYS:CD	1:Ae:158:THR:HB	1.57	1.29
5:Bb:307:A1A0P:C22	5:Cc:304:A1A0P:C24	2.09	1.29
5:Be:308:A1A0P:C22	5:Cf:304:A1A0P:C24	2.09	1.29
2:Bh:242:ALA:HA	5:Ch:304:A1A0P:O5	1.26	1.29
2:Bi:103:THR:CB	5:Bi:304:A1A0P:C33	2.11	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bi:251:PHE:CZ	5:Bi:308:A1A0P:C48	2.14	1.29
1:Ac:165:GLU:HA	1:Ac:167:ARG:NH1	1.43	1.29
1:Ah:234:LYS:HD2	5:Ah:502:A1A0P:O18	1.22	1.29
1:Ab:165:GLU:HA	1:Ab:167:ARG:NH1	1.43	1.29
2:Bd:242:ALA:HA	5:Cf:304:A1A0P:O5	1.28	1.29
5:Bc:308:A1A0P:C22	5:Cb:304:A1A0P:C24	2.09	1.28
1:Ae:234:LYS:HD2	5:Ae:502:A1A0P:O18	1.21	1.28
2:Bi:242:ALA:HA	5:Cg:304:A1A0P:O5	1.24	1.28
1:Ah:165:GLU:HA	1:Ah:167:ARG:NH1	1.44	1.28
1:Ai:231:THR:HG23	5:Ai:502:A1A0P:O5	1.34	1.28
5:Ba:309:A1A0P:C22	5:Ca:304:A1A0P:C24	2.09	1.28
5:Cg:302:A1A0P:O5	5:Cg:308:A1A0P:C19	1.79	1.28
5:Bd:309:A1A0P:C22	5:Cd:304:A1A0P:C24	2.09	1.27
3:Cd:221:PRO:CG	5:Cd:305:A1A0P:C7	2.10	1.27
5:Cd:308:A1A0P:C7	5:Cf:302:A1A0P:C19	2.11	1.27
1:Ag:58:LYS:CD	1:Ag:158:THR:HB	1.57	1.27
5:Ca:302:A1A0P:O5	5:Ca:308:A1A0P:C19	1.79	1.27
5:Cg:302:A1A0P:C19	5:Ch:308:A1A0P:C7	2.11	1.27
1:Ae:231:THR:HG23	5:Ae:502:A1A0P:O5	1.30	1.27
1:Af:234:LYS:HD2	5:Af:502:A1A0P:O18	1.22	1.27
5:Cg:308:A1A0P:C7	5:Ci:302:A1A0P:C19	2.12	1.27
1:Ac:234:LYS:HD2	5:Ac:502:A1A0P:O18	1.22	1.27
5:Cg:303:A1A0P:C35	6:Cg:409:HOH:O	1.64	1.27
5:Ch:302:A1A0P:C19	5:Ci:308:A1A0P:C7	2.12	1.27
2:Bg:241:VAL:O	5:Ci:304:A1A0P:C7	1.80	1.27
5:Ca:308:A1A0P:C7	5:Cc:302:A1A0P:C19	2.12	1.27
3:Ch:221:PRO:CG	5:Ch:305:A1A0P:C7	2.11	1.27
1:Ac:58:LYS:CD	1:Ac:158:THR:HB	1.57	1.26
2:Ba:242:ALA:HA	5:Cc:304:A1A0P:O5	1.35	1.26
2:Bd:103:THR:HG21	5:Bd:305:A1A0P:C33	1.31	1.26
1:Ag:234:LYS:HD2	5:Ag:502:A1A0P:O18	1.22	1.26
5:Cd:302:A1A0P:C19	5:Ce:308:A1A0P:C7	2.13	1.26
1:Ab:58:LYS:CD	1:Ab:158:THR:HB	1.57	1.26
2:Bb:246:TYR:OH	5:Cb:304:A1A0P:C40	1.84	1.26
2:Bc:242:ALA:HA	5:Ca:304:A1A0P:O5	1.33	1.26
5:Ca:302:A1A0P:C19	5:Cb:308:A1A0P:C7	2.11	1.26
2:Bb:242:ALA:HA	5:Cb:304:A1A0P:O5	1.28	1.26
5:Ce:302:A1A0P:C19	5:Cf:308:A1A0P:C7	2.12	1.26
1:Ab:234:LYS:CD	5:Ab:502:A1A0P:O18	1.84	1.25
5:Bd:309:A1A0P:C47	3:Cd:233:LEU:HD11	1.65	1.25
5:Cf:302:A1A0P:O5	5:Cf:308:A1A0P:C19	1.79	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:58:LYS:CD	1:Ad:158:THR:HB	1.57	1.25
5:Ce:302:A1A0P:O5	5:Ce:308:A1A0P:C19	1.79	1.25
3:Cb:221:PRO:CG	5:Cb:305:A1A0P:C7	2.15	1.25
1:Ai:231:THR:CG2	5:Ai:502:A1A0P:O5	1.82	1.25
5:Cb:302:A1A0P:C19	5:Cc:308:A1A0P:C7	2.12	1.24
5:Cb:302:A1A0P:O5	5:Cb:308:A1A0P:C19	1.79	1.24
1:Aa:58:LYS:CD	1:Aa:158:THR:HB	1.57	1.24
1:Aa:231:THR:CG2	5:Aa:502:A1A0P:O5	1.86	1.24
3:Cc:221:PRO:CG	5:Cc:305:A1A0P:C7	2.15	1.24
1:Ad:237:MET:HG2	5:Ad:503:A1A0P:C20	1.68	1.24
5:Cd:302:A1A0P:O5	5:Cd:308:A1A0P:C19	1.79	1.24
5:Ci:302:A1A0P:O5	5:Ci:308:A1A0P:C19	1.79	1.24
2:Be:242:ALA:HA	5:Ce:304:A1A0P:O5	1.34	1.24
3:Cf:221:PRO:CG	5:Cf:305:A1A0P:C7	2.13	1.24
1:Ad:234:LYS:HD2	5:Ad:502:A1A0P:O18	1.22	1.24
3:Cg:221:PRO:CG	5:Cg:305:A1A0P:C7	2.15	1.24
1:Ai:58:LYS:CD	1:Ai:158:THR:HB	1.57	1.23
2:Bi:246:TYR:CZ	5:Cg:304:A1A0P:C40	2.20	1.23
3:Ca:221:PRO:CG	5:Ca:305:A1A0P:C7	2.16	1.23
1:Af:231:THR:HG23	5:Af:502:A1A0P:O5	1.34	1.23
2:Be:246:TYR:OH	5:Ce:304:A1A0P:C40	1.86	1.23
3:Ci:221:PRO:CG	5:Ci:305:A1A0P:C7	2.17	1.23
1:Ae:237:MET:HG2	5:Ae:503:A1A0P:C20	1.69	1.22
5:Ag:503:A1A0P:C27	5:Bh:305:A1A0P:C32	2.18	1.22
5:Ah:503:A1A0P:C27	5:Bg:306:A1A0P:C32	2.18	1.22
5:Ai:503:A1A0P:C27	5:Bi:305:A1A0P:C32	2.18	1.22
2:Bg:242:ALA:HA	5:Ci:304:A1A0P:O5	1.37	1.22
5:Aa:503:A1A0P:C27	5:Bb:305:A1A0P:C32	2.18	1.22
5:Af:503:A1A0P:C27	5:Bf:305:A1A0P:C32	2.18	1.22
3:Ce:221:PRO:CG	5:Ce:305:A1A0P:C7	2.16	1.21
5:Cc:302:A1A0P:O5	5:Cc:308:A1A0P:C19	1.79	1.21
2:Be:246:TYR:OH	5:Ca:304:A1A0P:C40	1.89	1.21
1:Ac:231:THR:HG23	5:Ac:502:A1A0P:O5	1.34	1.21
5:Ac:503:A1A0P:C27	5:Bc:305:A1A0P:C32	2.18	1.21
1:Ag:231:THR:HG23	5:Ag:502:A1A0P:O5	1.34	1.21
2:Bg:103:THR:CB	5:Bg:305:A1A0P:C33	2.19	1.21
5:Ad:503:A1A0P:C27	5:Be:305:A1A0P:C32	2.18	1.21
5:Ae:503:A1A0P:C27	5:Bd:306:A1A0P:C32	2.18	1.20
3:Cc:240:PHE:HB2	5:Cc:302:A1A0P:C41	1.71	1.20
5:Ab:503:A1A0P:C27	5:Ba:306:A1A0P:C32	2.18	1.20
2:Bd:103:THR:CB	5:Bd:305:A1A0P:C33	2.19	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bh:246:TYR:CZ	5:Ch:304:A1A0P:C40	2.25	1.20
1:Ah:237:MET:HG2	5:Ah:503:A1A0P:C20	1.69	1.20
2:Be:103:THR:CB	5:Be:304:A1A0P:C33	2.20	1.20
2:Bd:246:TYR:CZ	5:Cf:304:A1A0P:C40	2.25	1.19
3:Ch:237:MET:O	5:Ch:302:A1A0P:C42	1.90	1.19
2:Bg:254:LEU:HD21	5:Ci:303:A1A0P:C48	1.57	1.19
2:Ba:246:TYR:OH	5:Cc:304:A1A0P:C40	1.90	1.19
2:Bi:219:MET:HG3	5:Cg:303:A1A0P:C32	1.73	1.18
1:Ab:231:THR:HG23	5:Ab:502:A1A0P:O5	1.33	1.18
1:Ac:237:MET:HG2	5:Ac:503:A1A0P:C20	1.71	1.18
2:Bg:246:TYR:OH	5:Ci:304:A1A0P:C40	1.90	1.18
5:Bc:308:A1A0P:C47	3:Cb:233:LEU:HD11	1.74	1.18
2:Bf:246:TYR:CZ	5:Cd:304:A1A0P:C40	2.27	1.18
5:Bb:307:A1A0P:C47	3:Cc:233:LEU:HD11	1.74	1.17
2:Bb:246:TYR:CZ	5:Cb:304:A1A0P:C40	2.28	1.17
3:Cb:240:PHE:HB2	5:Cb:302:A1A0P:C41	1.75	1.17
1:Aa:237:MET:HG2	5:Aa:503:A1A0P:C20	1.73	1.17
5:Be:308:A1A0P:C47	3:Cf:233:LEU:HD11	1.74	1.17
1:Ag:237:MET:HG2	5:Ag:503:A1A0P:C20	1.75	1.16
3:Ca:221:PRO:CB	5:Ca:305:A1A0P:C7	2.23	1.16
3:Ch:240:PHE:HB2	5:Ch:302:A1A0P:C41	1.76	1.16
1:Af:237:MET:HG2	5:Af:503:A1A0P:C20	1.74	1.16
1:Ag:234:LYS:CD	5:Ag:502:A1A0P:O18	1.94	1.16
1:Aa:231:THR:HG23	5:Aa:502:A1A0P:O5	1.37	1.15
5:Bf:307:A1A0P:C47	3:Ce:233:LEU:HD11	1.75	1.15
2:Bi:254:LEU:HD21	5:Cg:303:A1A0P:C48	1.55	1.15
2:Be:254:LEU:HD21	5:Ce:303:A1A0P:C48	1.56	1.15
2:Bf:103:THR:CB	5:Bf:304:A1A0P:C33	2.23	1.15
2:Bh:103:THR:CB	5:Bh:304:A1A0P:C33	2.23	1.15
1:Ac:234:LYS:CD	5:Ac:502:A1A0P:O18	1.94	1.15
3:Cf:221:PRO:CB	5:Cf:305:A1A0P:C7	2.25	1.15
3:Cg:221:PRO:CB	5:Cg:305:A1A0P:C7	2.25	1.15
2:Bc:103:THR:CB	5:Bc:304:A1A0P:C33	2.23	1.14
1:Ai:58:LYS:HD2	1:Ai:158:THR:HB	1.25	1.14
5:Bh:307:A1A0P:C47	3:Ci:233:LEU:HD11	1.76	1.14
3:Ca:240:PHE:HB2	5:Ca:302:A1A0P:C41	1.76	1.14
3:Cc:241:ILE:HD13	5:Cc:302:A1A0P:C30	1.77	1.14
3:Cd:237:MET:O	5:Cd:302:A1A0P:C42	1.95	1.14
1:Af:234:LYS:CD	5:Af:502:A1A0P:O18	1.94	1.14
5:Bi:307:A1A0P:N13	5:Cg:304:A1A0P:N13	1.96	1.14
5:Bg:309:A1A0P:C47	3:Cg:233:LEU:HD11	1.75	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bd:308:A1A0P:N13	5:Cf:304:A1A0P:N13	1.96	1.13
2:Bd:254:LEU:HD21	5:Cf:303:A1A0P:C48	1.54	1.13
2:Bd:219:MET:HG3	5:Cf:303:A1A0P:C32	1.78	1.13
2:Bb:103:THR:CB	5:Bb:304:A1A0P:C33	2.25	1.13
3:Cd:240:PHE:HB2	5:Cd:302:A1A0P:C41	1.77	1.13
5:Bf:308:A1A0P:N13	5:Cd:304:A1A0P:N13	1.96	1.12
1:Aa:234:LYS:CD	5:Aa:502:A1A0P:O18	1.96	1.12
5:Ag:502:A1A0P:O16	5:Ag:502:A1A0P:N13	1.83	1.12
5:Bc:307:A1A0P:N13	5:Ca:304:A1A0P:N13	1.96	1.12
5:Be:307:A1A0P:N13	5:Ce:304:A1A0P:N13	1.96	1.12
5:Bg:308:A1A0P:N13	5:Ci:304:A1A0P:N13	1.96	1.12
5:Ab:502:A1A0P:O16	5:Ab:502:A1A0P:N13	1.83	1.12
5:Af:502:A1A0P:O16	5:Af:502:A1A0P:N13	1.83	1.12
3:Cb:221:PRO:CB	5:Cb:305:A1A0P:C7	2.26	1.12
5:Ba:308:A1A0P:N13	5:Cc:304:A1A0P:N13	1.96	1.12
5:Bb:309:A1A0P:N13	5:Cb:304:A1A0P:N13	1.96	1.12
5:Bd:308:A1A0P:C11	5:Cf:304:A1A0P:C11	2.28	1.12
3:Ci:240:PHE:HB2	5:Ci:302:A1A0P:C41	1.79	1.12
1:Ae:234:LYS:CD	5:Ae:502:A1A0P:O18	1.98	1.11
5:Bg:308:A1A0P:C11	5:Ci:304:A1A0P:C11	2.28	1.11
5:Bh:308:A1A0P:C11	5:Ch:304:A1A0P:C11	2.28	1.11
3:Cc:237:MET:O	5:Cc:302:A1A0P:C42	1.98	1.11
5:Ad:502:A1A0P:N13	5:Ad:502:A1A0P:O16	1.83	1.11
5:Ba:308:A1A0P:C11	5:Cc:304:A1A0P:C11	2.28	1.11
3:Ce:221:PRO:CB	5:Ce:305:A1A0P:C7	2.29	1.11
1:Ad:58:LYS:HD2	1:Ad:158:THR:HB	1.25	1.11
5:Ah:502:A1A0P:O16	5:Ah:502:A1A0P:N13	1.83	1.11
5:Ba:309:A1A0P:C47	3:Ca:233:LEU:HD11	1.80	1.11
2:Bb:254:LEU:HD21	5:Cb:303:A1A0P:C48	1.57	1.11
5:Bb:309:A1A0P:C11	5:Cb:304:A1A0P:C11	2.28	1.11
2:Bc:246:TYR:OH	5:Ca:304:A1A0P:C7	1.98	1.11
5:Bh:308:A1A0P:N13	5:Ch:304:A1A0P:N13	1.96	1.11
3:Ce:240:PHE:HB2	5:Ce:302:A1A0P:C41	1.80	1.11
1:Ac:58:LYS:HD2	1:Ac:158:THR:HB	1.26	1.11
1:Ah:234:LYS:CD	5:Ah:502:A1A0P:O18	1.99	1.11
2:Bc:246:TYR:CZ	5:Ca:304:A1A0P:C40	2.33	1.11
5:Bg:309:A1A0P:C33	5:Cg:304:A1A0P:C43	2.29	1.11
5:Bi:308:A1A0P:C47	3:Ch:233:LEU:CD1	2.23	1.11
2:Ba:246:TYR:OH	5:Cc:304:A1A0P:C7	1.99	1.11
5:Bd:309:A1A0P:C33	5:Cd:304:A1A0P:C43	2.29	1.11
2:Be:246:TYR:CZ	5:Ce:304:A1A0P:C40	2.33	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bf:307:A1A0P:C33	5:Ce:304:A1A0P:C43	2.29	1.11
5:Bf:308:A1A0P:C11	5:Cd:304:A1A0P:C11	2.28	1.11
5:Bh:307:A1A0P:C33	5:Ci:304:A1A0P:C43	2.29	1.11
5:Bi:307:A1A0P:C11	5:Cg:304:A1A0P:C11	2.28	1.11
5:Ac:502:A1A0P:O16	5:Ac:502:A1A0P:N13	1.83	1.10
5:Ai:502:A1A0P:O16	5:Ai:502:A1A0P:N13	1.83	1.10
5:Bc:307:A1A0P:C11	5:Ca:304:A1A0P:C11	2.28	1.10
5:Be:307:A1A0P:C11	5:Ce:304:A1A0P:C11	2.28	1.10
3:Cc:221:PRO:CB	5:Cc:305:A1A0P:C7	2.27	1.10
5:Bb:307:A1A0P:C33	5:Cc:304:A1A0P:C43	2.29	1.10
3:Cf:240:PHE:HB2	5:Cf:302:A1A0P:C41	1.81	1.10
1:Aa:165:GLU:CA	1:Aa:167:ARG:NH1	2.15	1.10
5:Aa:502:A1A0P:N13	5:Aa:502:A1A0P:O16	1.83	1.10
1:Ab:58:LYS:HD2	1:Ab:158:THR:HB	1.25	1.10
1:Ad:165:GLU:CA	1:Ad:167:ARG:NH1	2.15	1.10
1:Ag:58:LYS:HD2	1:Ag:158:THR:HB	1.25	1.10
3:Cd:241:ILE:HD13	5:Cd:302:A1A0P:C30	1.82	1.10
3:Ch:241:ILE:HD13	5:Ch:302:A1A0P:C30	1.81	1.10
5:Ae:502:A1A0P:O16	5:Ae:502:A1A0P:N13	1.83	1.10
5:Ba:309:A1A0P:C33	5:Ca:304:A1A0P:C43	2.29	1.10
2:Bc:254:LEU:HD21	5:Ca:303:A1A0P:C48	1.59	1.10
1:Ab:165:GLU:C	1:Ab:167:ARG:HH11	1.60	1.09
1:Ab:165:GLU:CA	1:Ab:167:ARG:NH1	2.15	1.09
1:Ac:165:GLU:C	1:Ac:167:ARG:HH11	1.60	1.09
5:Bc:308:A1A0P:C33	5:Cb:304:A1A0P:C43	2.29	1.09
1:Af:165:GLU:C	1:Af:167:ARG:HH11	1.60	1.09
1:Ai:165:GLU:C	1:Ai:167:ARG:HH11	1.60	1.09
5:Bi:308:A1A0P:C48	3:Ch:229:PHE:HZ	1.65	1.09
5:Bi:308:A1A0P:C33	5:Ch:304:A1A0P:C43	2.29	1.09
1:Ac:165:GLU:CA	1:Ac:167:ARG:NH1	2.15	1.09
2:Ba:246:TYR:CZ	5:Cc:304:A1A0P:C40	2.36	1.09
3:Cb:237:MET:O	5:Cb:302:A1A0P:C42	2.01	1.09
1:Ae:165:GLU:C	1:Ae:167:ARG:HH11	1.60	1.09
1:Ah:58:LYS:HD2	1:Ah:158:THR:HB	1.25	1.09
1:Ai:165:GLU:CA	1:Ai:167:ARG:NH1	2.15	1.09
2:Bb:246:TYR:OH	5:Cb:304:A1A0P:C7	2.00	1.09
5:Be:308:A1A0P:C33	5:Cf:304:A1A0P:C43	2.29	1.09
3:Cd:221:PRO:CB	5:Cd:305:A1A0P:C7	2.31	1.09
1:Ab:237:MET:HG2	5:Ab:503:A1A0P:C20	1.83	1.08
1:Ad:234:LYS:CD	5:Ad:502:A1A0P:O18	2.00	1.08
1:Af:165:GLU:CA	1:Af:167:ARG:NH1	2.15	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ag:165:GLU:CA	1:Ag:167:ARG:NH1	2.15	1.08
5:Bi:308:A1A0P:C48	3:Ch:229:PHE:CZ	2.36	1.08
3:Ci:241:ILE:HD13	5:Ci:302:A1A0P:C30	1.82	1.08
1:Ad:231:THR:HG23	5:Ad:502:A1A0P:O5	1.26	1.08
1:Ae:165:GLU:CA	1:Ae:167:ARG:NH1	2.15	1.08
1:Aa:165:GLU:C	1:Aa:167:ARG:HH11	1.60	1.08
3:Ce:241:ILE:HD13	5:Ce:302:A1A0P:C30	1.84	1.08
3:Ci:221:PRO:CB	5:Ci:305:A1A0P:C7	2.30	1.08
1:Ad:165:GLU:C	1:Ad:167:ARG:HH11	1.60	1.07
1:Af:58:LYS:HD2	1:Af:158:THR:HB	1.25	1.07
1:Ag:165:GLU:C	1:Ag:167:ARG:HH11	1.60	1.07
1:Ah:165:GLU:C	1:Ah:167:ARG:HH11	1.61	1.07
1:Ah:165:GLU:CA	1:Ah:167:ARG:NH1	2.16	1.07
3:Cg:240:PHE:HB2	5:Cg:302:A1A0P:C41	1.84	1.07
1:Aa:58:LYS:HD2	1:Aa:158:THR:HB	1.25	1.07
2:Be:246:TYR:OH	5:Ce:304:A1A0P:C7	2.03	1.07
2:Bg:246:TYR:OH	5:Ci:304:A1A0P:C7	2.01	1.06
2:Bh:219:MET:HG3	5:Ch:303:A1A0P:C32	1.85	1.06
5:Cb:302:A1A0P:C19	5:Cc:308:A1A0P:C34	2.34	1.06
5:Cf:302:A1A0P:C4	5:Cf:308:A1A0P:C20	2.30	1.06
2:Bb:219:MET:HG3	5:Cb:303:A1A0P:C32	1.86	1.06
5:Ci:302:A1A0P:C4	5:Ci:308:A1A0P:C20	2.30	1.06
2:Bg:246:TYR:CZ	5:Ci:304:A1A0P:C40	2.36	1.06
3:Ca:241:ILE:HD13	5:Ca:302:A1A0P:C30	1.84	1.06
2:Ba:103:THR:CB	5:Ba:305:A1A0P:C33	2.32	1.06
2:Bg:211:LEU:CD1	5:Bg:303:A1A0P:C48	2.33	1.06
5:Ca:302:A1A0P:C19	5:Cb:308:A1A0P:C34	2.34	1.06
5:Cd:302:A1A0P:C19	5:Ce:308:A1A0P:C34	2.34	1.06
5:Ch:302:A1A0P:C4	5:Ch:308:A1A0P:C20	2.30	1.06
1:Ae:58:LYS:HD2	1:Ae:158:THR:HB	1.25	1.05
5:Ch:302:A1A0P:C19	5:Ci:308:A1A0P:C34	2.34	1.05
3:Cf:237:MET:O	5:Cf:302:A1A0P:C42	2.04	1.05
5:Be:308:A1A0P:C47	3:Cf:233:LEU:CD1	2.33	1.05
3:Cb:241:ILE:HD13	5:Cb:302:A1A0P:C30	1.85	1.05
5:Ce:302:A1A0P:C19	5:Cf:308:A1A0P:C34	2.34	1.05
3:Cg:221:PRO:CG	5:Cg:305:A1A0P:C4	2.32	1.05
5:Cg:302:A1A0P:C19	5:Ch:308:A1A0P:C34	2.34	1.05
5:Bd:309:A1A0P:C47	3:Cd:233:LEU:CD1	2.28	1.04
2:Bf:219:MET:HG3	5:Cd:303:A1A0P:C32	1.87	1.04
3:Cb:221:PRO:CG	5:Cb:305:A1A0P:C4	2.34	1.04
5:Cg:308:A1A0P:C34	5:Ci:302:A1A0P:C19	2.34	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ca:308:A1A0P:C34	5:Cc:302:A1A0P:C19	2.34	1.04
5:Cd:308:A1A0P:C34	5:Cf:302:A1A0P:C19	2.34	1.04
5:Bc:308:A1A0P:C47	3:Cb:233:LEU:CD1	2.34	1.04
3:Ci:237:MET:O	5:Ci:302:A1A0P:C42	2.06	1.04
3:Ca:221:PRO:CG	5:Ca:305:A1A0P:C4	2.34	1.03
5:Bd:309:A1A0P:C48	3:Cd:229:PHE:CZ	2.41	1.03
5:Cd:302:A1A0P:C4	5:Cd:308:A1A0P:C20	2.30	1.03
3:Ce:237:MET:O	5:Ce:302:A1A0P:C42	2.06	1.03
5:Bd:309:A1A0P:C48	3:Cd:229:PHE:HZ	1.69	1.03
3:Ca:237:MET:O	5:Ca:302:A1A0P:C42	2.06	1.03
3:Ch:221:PRO:CB	5:Ch:305:A1A0P:C7	2.35	1.03
5:Bg:309:A1A0P:C47	3:Cg:233:LEU:CD1	2.33	1.03
3:Cf:221:PRO:CG	5:Cf:305:A1A0P:C4	2.33	1.02
2:Bd:246:TYR:OH	5:Cf:304:A1A0P:C7	2.06	1.02
2:Bi:246:TYR:OH	5:Cg:304:A1A0P:C7	2.08	1.02
1:Ah:339:ASP:OD2	1:Ah:374:TYR:HE1	1.41	1.02
2:Be:211:LEU:CD1	5:Be:302:A1A0P:C48	2.38	1.02
1:Ae:339:ASP:OD2	1:Ae:374:TYR:HE1	1.41	1.02
3:Cc:221:PRO:CG	5:Cc:305:A1A0P:C4	2.37	1.02
5:Bi:308:A1A0P:C39	5:Ch:304:A1A0P:C28	2.38	1.02
1:Ab:339:ASP:OD2	1:Ab:374:TYR:HE1	1.41	1.01
1:Ad:231:THR:HG21	5:Ad:502:A1A0P:O5	1.58	1.01
5:Ah:503:A1A0P:C36	5:Bg:306:A1A0P:C2	2.39	1.01
5:Bc:308:A1A0P:C39	5:Cb:304:A1A0P:C28	2.38	1.01
5:Bh:307:A1A0P:C39	5:Ci:304:A1A0P:C28	2.38	1.01
1:Ac:339:ASP:OD2	1:Ac:374:TYR:HE1	1.41	1.01
1:Af:339:ASP:OD2	1:Af:374:TYR:HE1	1.41	1.01
5:Ag:503:A1A0P:C36	5:Bh:305:A1A0P:C2	2.39	1.01
2:Bf:246:TYR:OH	5:Cd:304:A1A0P:C7	2.09	1.01
1:Aa:339:ASP:OD2	1:Aa:374:TYR:HE1	1.41	1.01
5:Ai:503:A1A0P:C36	5:Bi:305:A1A0P:C2	2.39	1.01
5:Bb:307:A1A0P:C39	5:Cc:304:A1A0P:C28	2.38	1.01
5:Bd:309:A1A0P:C39	5:Cd:304:A1A0P:C28	2.38	1.01
5:Bg:309:A1A0P:C39	5:Cg:304:A1A0P:C28	2.38	1.01
5:Ae:503:A1A0P:C36	5:Bd:306:A1A0P:C2	2.38	1.01
3:Cd:221:PRO:CG	5:Cd:305:A1A0P:C4	2.37	1.01
5:Ac:503:A1A0P:C36	5:Bc:305:A1A0P:C2	2.38	1.01
5:Bf:307:A1A0P:C39	5:Ce:304:A1A0P:C28	2.38	1.01
5:Ce:302:A1A0P:C4	5:Ce:308:A1A0P:C20	2.30	1.01
5:Ab:503:A1A0P:C36	5:Ba:306:A1A0P:C2	2.39	1.00
1:Ai:339:ASP:OD2	1:Ai:374:TYR:HE1	1.41	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ba:309:A1A0P:C39	5:Ca:304:A1A0P:C28	2.38	1.00
5:Be:308:A1A0P:C39	5:Cf:304:A1A0P:C28	2.38	1.00
2:Bi:241:VAL:O	5:Cg:304:A1A0P:C34	2.08	1.00
5:Cb:302:A1A0P:C4	5:Cb:308:A1A0P:C20	2.30	1.00
2:Bh:241:VAL:O	5:Ch:304:A1A0P:C34	2.09	1.00
2:Bh:242:ALA:CA	5:Ch:304:A1A0P:O5	2.08	1.00
1:Ad:339:ASP:OD2	1:Ad:374:TYR:HE1	1.41	1.00
2:Bc:219:MET:HG3	5:Ca:303:A1A0P:C32	1.91	1.00
5:Ad:503:A1A0P:C36	5:Be:305:A1A0P:C2	2.39	1.00
2:Bc:211:LEU:CD1	5:Bc:302:A1A0P:C48	2.40	1.00
2:Be:219:MET:HG3	5:Ce:303:A1A0P:C32	1.91	1.00
3:Cg:237:MET:O	5:Cg:302:A1A0P:C42	2.08	1.00
5:Aa:503:A1A0P:C36	5:Bb:305:A1A0P:C2	2.39	1.00
5:Af:503:A1A0P:C36	5:Bf:305:A1A0P:C2	2.39	1.00
1:Ah:165:GLU:HA	1:Ah:167:ARG:HH12	0.84	1.00
1:Ag:339:ASP:OD2	1:Ag:374:TYR:HE1	1.41	1.00
5:Bh:307:A1A0P:C48	3:Ci:229:PHE:HZ	1.75	1.00
3:Cf:241:ILE:HD13	5:Cf:302:A1A0P:C30	1.92	1.00
1:Ag:58:LYS:HD3	1:Ag:158:THR:HB	1.44	0.99
3:Cg:216:GLY:O	5:Cg:301:A1A0P:P14	2.20	0.99
1:Ad:58:LYS:HD3	1:Ad:158:THR:HB	1.44	0.99
5:Bf:307:A1A0P:C48	3:Ce:229:PHE:HZ	1.76	0.99
2:Bh:246:TYR:OH	5:Ch:304:A1A0P:C7	2.09	0.99
1:Ae:165:GLU:HA	1:Ae:167:ARG:HH12	0.82	0.99
1:Ai:234:LYS:CD	5:Ai:502:A1A0P:O18	2.09	0.99
5:Cc:302:A1A0P:C4	5:Cc:308:A1A0P:C20	2.30	0.99
1:Ag:165:GLU:CA	1:Ag:167:ARG:HH12	1.75	0.99
2:Bi:242:ALA:CA	5:Cg:304:A1A0P:O5	2.10	0.99
3:Ch:216:GLY:O	5:Ch:301:A1A0P:P14	2.21	0.99
3:Ci:221:PRO:CG	5:Ci:305:A1A0P:C4	2.40	0.99
5:Ad:503:A1A0P:C48	5:Cf:301:A1A0P:C48	2.40	0.99
5:Ah:503:A1A0P:C48	5:Cg:301:A1A0P:C48	2.40	0.99
5:Ab:503:A1A0P:C48	5:Ca:301:A1A0P:C48	2.40	0.98
1:Ab:58:LYS:HD3	1:Ab:158:THR:HB	1.44	0.98
3:Ce:221:PRO:CG	5:Ce:305:A1A0P:C4	2.38	0.98
1:Aa:165:GLU:CA	1:Aa:167:ARG:HH12	1.75	0.98
5:Ai:503:A1A0P:C48	5:Ch:301:A1A0P:C48	2.42	0.98
5:Ae:503:A1A0P:C48	5:Cd:301:A1A0P:C48	2.42	0.98
2:Bf:241:VAL:O	5:Cd:304:A1A0P:C34	2.12	0.98
1:Ai:165:GLU:HA	1:Ai:167:ARG:HH12	0.82	0.98
3:Ca:221:PRO:HG3	5:Ca:305:A1A0P:O3	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:58:LYS:HD3	1:Aa:158:THR:HB	1.44	0.98
1:Ac:165:GLU:HA	1:Ac:167:ARG:HH12	0.82	0.98
1:Af:165:GLU:HA	1:Af:167:ARG:HH12	0.82	0.98
1:Ad:165:GLU:CA	1:Ad:167:ARG:HH12	1.75	0.98
2:Bb:251:PHE:HZ	5:Bb:307:A1A0P:C48	1.75	0.98
5:Be:307:A1A0P:C12	5:Ce:304:A1A0P:C12	2.42	0.98
5:Ca:302:A1A0P:C4	5:Ca:308:A1A0P:C20	2.30	0.98
1:Ag:165:GLU:HA	1:Ag:167:ARG:HH12	0.82	0.97
2:Bf:242:ALA:CA	5:Cd:304:A1A0P:O5	2.11	0.97
1:Ab:165:GLU:HA	1:Ab:167:ARG:HH12	0.82	0.97
5:Bh:308:A1A0P:C12	5:Ch:304:A1A0P:C12	2.42	0.97
5:Ag:503:A1A0P:C48	5:Ci:301:A1A0P:C48	2.42	0.97
2:Ba:251:PHE:HZ	5:Ba:309:A1A0P:C48	1.76	0.97
5:Bf:307:A1A0P:C47	3:Ce:233:LEU:CD1	2.38	0.97
5:Ac:503:A1A0P:C48	5:Cb:301:A1A0P:C48	2.42	0.97
2:Bb:242:ALA:CA	5:Cb:304:A1A0P:O5	2.11	0.97
5:Bb:309:A1A0P:C12	5:Cb:304:A1A0P:C12	2.42	0.97
5:Bi:307:A1A0P:C12	5:Cg:304:A1A0P:C12	2.43	0.97
1:Ac:58:LYS:HD3	1:Ac:158:THR:HB	1.44	0.97
1:Ad:165:GLU:HA	1:Ad:167:ARG:HH12	0.82	0.97
2:Bc:251:PHE:HZ	5:Bc:308:A1A0P:C48	1.78	0.97
3:Cd:216:GLY:O	5:Cd:301:A1A0P:P14	2.22	0.97
5:Bh:307:A1A0P:C48	3:Ci:229:PHE:CZ	2.48	0.97
1:Aa:165:GLU:HA	1:Aa:167:ARG:HH12	0.82	0.97
5:Bd:308:A1A0P:C12	5:Cf:304:A1A0P:C12	2.42	0.97
5:Cg:302:A1A0P:C4	5:Cg:308:A1A0P:C20	2.30	0.97
5:Bh:307:A1A0P:C47	3:Ci:233:LEU:CD1	2.40	0.97
5:Af:503:A1A0P:C48	5:Ce:301:A1A0P:C48	2.42	0.96
2:Bd:241:VAL:O	5:Cf:304:A1A0P:C34	2.12	0.96
3:Ca:221:PRO:HB3	5:Ca:305:A1A0P:C7	1.91	0.96
3:Cf:216:GLY:O	5:Cf:301:A1A0P:P14	2.23	0.96
1:Af:58:LYS:HD3	1:Af:158:THR:HB	1.44	0.96
2:Ba:211:LEU:CD1	5:Ba:303:A1A0P:C48	2.43	0.96
5:Ba:308:A1A0P:C12	5:Cc:304:A1A0P:C12	2.42	0.96
5:Bf:307:A1A0P:C48	3:Ce:229:PHE:CZ	2.49	0.96
5:Bf:308:A1A0P:C12	5:Cd:304:A1A0P:C12	2.42	0.96
2:Bg:219:MET:HG3	5:Ci:303:A1A0P:C32	1.95	0.96
1:Ai:58:LYS:HD3	1:Ai:158:THR:HB	1.44	0.96
2:Bb:241:VAL:O	5:Cb:304:A1A0P:C34	2.14	0.96
5:Bc:307:A1A0P:C12	5:Ca:304:A1A0P:C12	2.42	0.96
5:Aa:503:A1A0P:C48	5:Cc:301:A1A0P:C48	2.42	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:58:LYS:HD3	1:Ah:158:THR:HB	1.44	0.96
2:Ba:219:MET:HG3	5:Cc:303:A1A0P:C32	1.95	0.96
3:Cb:216:GLY:O	5:Cb:301:A1A0P:P14	2.24	0.96
1:Ab:165:GLU:CA	1:Ab:167:ARG:HH12	1.75	0.96
2:Ba:251:PHE:HD1	5:Cc:303:A1A0P:C33	1.40	0.96
2:Bi:251:PHE:HE1	5:Cg:303:A1A0P:C33	1.78	0.96
5:Bb:307:A1A0P:C48	3:Cc:229:PHE:HZ	1.79	0.96
2:Bh:241:VAL:O	5:Ch:304:A1A0P:C4	2.14	0.95
2:Bh:251:PHE:HZ	5:Bh:307:A1A0P:C48	1.79	0.95
1:Af:58:LYS:CD	1:Af:158:THR:CB	2.44	0.95
2:Bd:242:ALA:CA	5:Cf:304:A1A0P:O5	2.13	0.95
2:Bg:70:GLY:HA3	5:Bg:302:A1A0P:O16	1.65	0.95
5:Bg:308:A1A0P:C12	5:Ci:304:A1A0P:C12	2.42	0.95
1:Aa:58:LYS:CD	1:Aa:158:THR:CB	2.44	0.95
3:Cb:221:PRO:HB3	5:Cb:305:A1A0P:C7	1.96	0.95
3:Cc:241:ILE:CD1	5:Cc:302:A1A0P:C30	2.44	0.95
2:Bc:251:PHE:HE2	5:Bc:308:A1A0P:C48	1.75	0.95
1:Ac:58:LYS:CD	1:Ac:158:THR:CB	2.44	0.95
1:Ab:234:LYS:CE	5:Ab:502:A1A0P:O18	2.14	0.95
1:Ai:58:LYS:CD	1:Ai:158:THR:CB	2.44	0.95
1:Ab:58:LYS:CD	1:Ab:158:THR:CB	2.44	0.95
1:Ad:58:LYS:CD	1:Ad:158:THR:CB	2.44	0.95
2:Bb:241:VAL:O	5:Cb:304:A1A0P:C4	2.15	0.95
3:Cc:221:PRO:HB3	5:Cc:305:A1A0P:C7	1.96	0.95
2:Bh:208:LEU:HD13	5:Ch:303:A1A0P:C7	1.96	0.94
1:Ah:58:LYS:CD	1:Ah:158:THR:CB	2.44	0.94
1:Ag:58:LYS:CD	1:Ag:158:THR:CB	2.44	0.94
5:Bb:307:A1A0P:C48	3:Cc:229:PHE:CZ	2.51	0.94
3:Ci:241:ILE:CD1	5:Ci:302:A1A0P:C30	2.46	0.94
3:Cg:241:ILE:HD13	5:Cg:302:A1A0P:C30	1.98	0.94
3:Ch:221:PRO:CG	5:Ch:305:A1A0P:C4	2.41	0.94
5:Bb:307:A1A0P:C47	3:Cc:233:LEU:CD1	2.36	0.94
1:Ae:58:LYS:CD	1:Ae:158:THR:CB	2.44	0.94
1:Ae:58:LYS:HD3	1:Ae:158:THR:HB	1.44	0.94
2:Ba:241:VAL:O	5:Cc:304:A1A0P:C4	2.15	0.94
2:Bf:211:LEU:CD1	5:Bf:302:A1A0P:C48	2.45	0.94
1:Ae:165:GLU:CA	1:Ae:167:ARG:HH12	1.76	0.94
2:Bg:251:PHE:HE2	5:Bg:309:A1A0P:C48	1.80	0.94
5:Be:308:A1A0P:C48	3:Cf:229:PHE:HZ	1.80	0.93
5:Ba:309:A1A0P:C47	3:Ca:233:LEU:CD1	2.40	0.93
2:Bf:251:PHE:HE2	5:Bf:307:A1A0P:C48	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:251:PHE:HE1	5:Ce:303:A1A0P:C33	1.81	0.93
2:Bc:242:ALA:CA	5:Ca:304:A1A0P:O5	2.16	0.93
2:Be:70:GLY:HA3	5:Be:301:A1A0P:O16	1.67	0.93
1:Ai:39:ALA:HB3	1:Ai:42:MET:HG3	1.51	0.93
2:Bf:241:VAL:O	5:Cd:304:A1A0P:C4	2.16	0.93
3:Ce:221:PRO:HB3	5:Ce:305:A1A0P:C7	1.98	0.93
5:Bc:308:A1A0P:C48	3:Cb:229:PHE:HZ	1.81	0.92
3:Cf:221:PRO:HB3	5:Cf:305:A1A0P:C7	1.97	0.92
2:Bh:241:VAL:HB	5:Ch:304:A1A0P:C34	1.99	0.92
1:Ae:39:ALA:HB3	1:Ae:42:MET:HG3	1.51	0.92
1:Ai:237:MET:CG	5:Ai:503:A1A0P:C20	2.48	0.92
2:Be:242:ALA:CA	5:Ce:304:A1A0P:O5	2.17	0.92
3:Cc:221:PRO:HG3	5:Cc:305:A1A0P:O3	1.70	0.92
5:Ah:503:A1A0P:C20	3:Cg:144:LEU:HD13	2.00	0.92
3:Cg:221:PRO:HB3	5:Cg:305:A1A0P:C7	1.98	0.92
2:Bc:70:GLY:HA3	5:Bc:301:A1A0P:O16	1.69	0.92
2:Bf:208:LEU:HD13	5:Cd:303:A1A0P:C7	1.99	0.92
2:Bi:70:GLY:HA3	5:Bi:301:A1A0P:O16	1.68	0.92
2:Ba:242:ALA:CA	5:Cc:304:A1A0P:O5	2.17	0.91
2:Bc:241:VAL:O	5:Ca:304:A1A0P:C4	2.18	0.91
2:Bg:251:PHE:HE1	5:Ci:303:A1A0P:C33	1.79	0.91
3:Ca:216:GLY:O	5:Ca:301:A1A0P:P14	2.28	0.91
3:Cb:221:PRO:HG3	5:Cb:305:A1A0P:O3	1.69	0.91
3:Ci:221:PRO:HB3	5:Ci:305:A1A0P:C7	1.99	0.91
1:Ab:165:GLU:C	1:Ab:167:ARG:NH1	2.29	0.91
1:Ag:39:ALA:HB3	1:Ag:42:MET:HG3	1.51	0.91
2:Bd:251:PHE:HE2	5:Bd:309:A1A0P:C48	1.72	0.91
1:Ah:39:ALA:HB3	1:Ah:42:MET:HG3	1.51	0.91
2:Bf:251:PHE:HZ	5:Bf:307:A1A0P:C48	1.80	0.91
1:Ac:39:ALA:HB3	1:Ac:42:MET:HG3	1.51	0.91
2:Ba:251:PHE:HE2	5:Ba:309:A1A0P:C48	1.69	0.91
5:Be:308:A1A0P:C48	3:Cf:229:PHE:CZ	2.53	0.91
1:Ad:39:ALA:HB3	1:Ad:42:MET:HG3	1.51	0.91
5:Bb:309:A1A0P:N13	5:Cb:304:A1A0P:C12	2.34	0.91
5:Bc:308:A1A0P:C48	3:Cb:229:PHE:CZ	2.53	0.91
3:Ce:241:ILE:CD1	5:Ce:302:A1A0P:C30	2.48	0.91
1:Ae:165:GLU:C	1:Ae:167:ARG:NH1	2.29	0.91
5:Ba:308:A1A0P:N13	5:Cc:304:A1A0P:C12	2.34	0.91
2:Bb:211:LEU:CD1	5:Bb:302:A1A0P:C48	2.49	0.91
2:Bd:208:LEU:HD13	5:Cf:303:A1A0P:C7	2.01	0.91
5:Bh:308:A1A0P:N13	5:Ch:304:A1A0P:C12	2.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:165:GLU:C	1:Ad:167:ARG:NH1	2.29	0.91
5:Bg:309:A1A0P:C48	3:Cg:229:PHE:HZ	1.82	0.91
3:Cf:221:PRO:HG3	5:Cf:305:A1A0P:O3	1.71	0.91
2:Be:241:VAL:O	5:Ce:304:A1A0P:C34	2.19	0.90
5:Bf:308:A1A0P:N13	5:Cd:304:A1A0P:C12	2.34	0.90
3:Cc:216:GLY:O	5:Cc:301:A1A0P:P14	2.29	0.90
1:Af:39:ALA:HB3	1:Af:42:MET:HG3	1.51	0.90
5:Bc:308:A1A0P:C46	3:Cb:233:LEU:HD13	2.02	0.90
5:Ba:309:A1A0P:C48	3:Ca:229:PHE:HZ	1.84	0.90
5:Be:307:A1A0P:N13	5:Ce:304:A1A0P:C12	2.34	0.90
5:Bd:308:A1A0P:N13	5:Cf:304:A1A0P:C12	2.34	0.90
5:Bg:309:A1A0P:C46	3:Cg:233:LEU:HD13	2.01	0.90
2:Bi:251:PHE:HE2	5:Bi:308:A1A0P:C48	1.75	0.90
2:Bc:241:VAL:O	5:Ca:304:A1A0P:C34	2.19	0.90
2:Bg:251:PHE:HD1	5:Ci:303:A1A0P:C33	1.42	0.90
5:Bg:308:A1A0P:N13	5:Ci:304:A1A0P:C12	2.34	0.90
2:Bd:246:TYR:HH	5:Cf:304:A1A0P:C40	1.84	0.90
2:Be:241:VAL:O	5:Ce:304:A1A0P:C4	2.20	0.90
2:Bf:241:VAL:HB	5:Cd:304:A1A0P:C34	2.02	0.90
5:Bi:307:A1A0P:N13	5:Cg:304:A1A0P:C12	2.34	0.90
2:Bh:251:PHE:HE2	5:Bh:307:A1A0P:C48	1.62	0.90
3:Cd:241:ILE:CD1	5:Cd:302:A1A0P:C30	2.50	0.90
1:Ab:39:ALA:HB3	1:Ab:42:MET:HG3	1.51	0.90
1:Af:165:GLU:C	1:Af:167:ARG:NH1	2.29	0.90
1:Ah:165:GLU:C	1:Ah:167:ARG:NH1	2.30	0.90
1:Aa:165:GLU:C	1:Aa:167:ARG:NH1	2.29	0.90
1:Ab:231:THR:CG2	5:Ab:502:A1A0P:C4	2.49	0.90
2:Be:251:PHE:HD1	5:Ce:303:A1A0P:C33	1.43	0.90
2:Bi:103:THR:OG1	5:Bi:304:A1A0P:C33	2.20	0.90
3:Ca:241:ILE:CD1	5:Ca:302:A1A0P:C30	2.49	0.90
3:Ce:216:GLY:O	5:Ce:301:A1A0P:P14	2.30	0.90
2:Bh:211:LEU:CD1	5:Bh:302:A1A0P:C48	2.50	0.89
2:Bc:251:PHE:HD1	5:Ca:303:A1A0P:C33	1.45	0.89
2:Bg:251:PHE:HZ	5:Bg:309:A1A0P:C48	1.82	0.89
5:Bg:309:A1A0P:C48	3:Cg:229:PHE:CZ	2.55	0.89
1:Af:165:GLU:CA	1:Af:167:ARG:HH12	1.75	0.89
1:Ag:165:GLU:C	1:Ag:167:ARG:NH1	2.29	0.89
3:Ch:241:ILE:CD1	5:Ch:302:A1A0P:C30	2.50	0.89
5:Bc:307:A1A0P:N13	5:Ca:304:A1A0P:C12	2.34	0.89
2:Bd:70:GLY:HA3	5:Bd:302:A1A0P:O16	1.73	0.89
2:Be:251:PHE:HZ	5:Be:308:A1A0P:C48	1.81	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bg:241:VAL:O	5:Ci:304:A1A0P:C4	2.21	0.89
3:Ci:221:PRO:HG3	5:Ci:305:A1A0P:O3	1.73	0.89
3:Cg:221:PRO:HG3	5:Cg:305:A1A0P:O3	1.71	0.88
1:Aa:39:ALA:HB3	1:Aa:42:MET:HG3	1.51	0.88
1:Ae:231:THR:HG21	5:Ae:502:A1A0P:O5	1.74	0.88
2:Bg:242:ALA:CA	5:Ci:304:A1A0P:O5	2.20	0.88
1:Ai:165:GLU:C	1:Ai:167:ARG:NH1	2.29	0.88
2:Bi:208:LEU:HD13	5:Cg:303:A1A0P:C7	2.03	0.88
3:Ch:241:ILE:HG13	5:Ch:302:A1A0P:C43	2.03	0.88
2:Ba:241:VAL:O	5:Cc:304:A1A0P:C34	2.21	0.88
1:Ac:231:THR:HG21	5:Ac:502:A1A0P:O5	1.73	0.87
2:Bd:211:LEU:CD1	5:Bd:303:A1A0P:C48	2.52	0.87
3:Ce:221:PRO:HG3	5:Ce:305:A1A0P:O3	1.73	0.87
2:Be:251:PHE:HE2	5:Be:308:A1A0P:C48	1.76	0.87
2:Bi:251:PHE:HZ	5:Bi:308:A1A0P:C48	1.85	0.87
3:Ci:216:GLY:O	5:Ci:301:A1A0P:P14	2.33	0.87
1:Ac:237:MET:SD	5:Ac:503:A1A0P:C21	2.62	0.87
1:Ah:237:MET:SD	5:Ah:503:A1A0P:C21	2.63	0.87
2:Bb:70:GLY:HA3	5:Bb:301:A1A0P:O16	1.73	0.87
2:Bd:251:PHE:HE1	5:Cf:303:A1A0P:C33	1.82	0.87
2:Bf:70:GLY:HA3	5:Bf:301:A1A0P:O16	1.73	0.87
1:Ac:165:GLU:C	1:Ac:167:ARG:NH1	2.29	0.87
1:Af:231:THR:HG21	5:Af:502:A1A0P:O5	1.73	0.87
1:Af:237:MET:SD	5:Af:503:A1A0P:C21	2.63	0.87
2:Bh:70:GLY:HA3	5:Bh:301:A1A0P:O16	1.74	0.87
2:Bg:211:LEU:HD12	5:Bg:303:A1A0P:C48	2.03	0.87
2:Be:246:TYR:HH	5:Ce:304:A1A0P:C7	1.88	0.87
1:Ad:237:MET:SD	5:Ad:503:A1A0P:C21	2.63	0.87
1:Ag:237:MET:SD	5:Ag:503:A1A0P:C21	2.63	0.87
5:Ba:309:A1A0P:C48	3:Ca:229:PHE:CZ	2.57	0.87
1:Ad:231:THR:CG2	5:Ad:502:A1A0P:C4	2.52	0.86
2:Bb:208:LEU:HD13	5:Cb:303:A1A0P:C7	2.05	0.86
3:Cb:241:ILE:CD1	5:Cb:302:A1A0P:C30	2.52	0.86
2:Bb:246:TYR:HH	5:Cb:304:A1A0P:C7	1.84	0.86
2:Bd:241:VAL:O	5:Cf:304:A1A0P:C4	2.22	0.86
1:Ai:231:THR:HG21	5:Ai:502:A1A0P:O5	1.73	0.86
2:Bc:251:PHE:HE1	5:Ca:303:A1A0P:C33	1.85	0.86
1:Ai:165:GLU:CA	1:Ai:167:ARG:HH12	1.76	0.86
2:Ba:70:GLY:HA3	5:Ba:302:A1A0P:O16	1.76	0.86
5:Ba:309:A1A0P:C46	3:Ca:233:LEU:HD13	2.05	0.86
2:Bg:241:VAL:O	5:Ci:304:A1A0P:C34	2.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bi:241:VAL:O	5:Cg:304:A1A0P:C4	2.23	0.85
1:Aa:237:MET:SD	5:Aa:503:A1A0P:C21	2.64	0.85
2:Bi:211:LEU:CD1	5:Bi:302:A1A0P:C48	2.54	0.85
5:Cg:308:A1A0P:C34	5:Cg:308:A1A0P:C21	2.55	0.85
2:Bb:251:PHE:HE2	5:Bb:307:A1A0P:C48	1.67	0.85
5:Bi:308:A1A0P:C46	3:Ch:233:LEU:HD12	2.03	0.85
5:Cd:308:A1A0P:C34	5:Cd:308:A1A0P:C21	2.55	0.84
1:Ac:165:GLU:CA	1:Ac:167:ARG:HH12	1.75	0.84
5:Ad:503:A1A0P:C20	3:Cf:144:LEU:HD13	2.07	0.84
2:Bb:251:PHE:HD1	5:Cb:303:A1A0P:C33	1.46	0.84
2:Bb:241:VAL:HB	5:Cb:304:A1A0P:C34	2.07	0.84
2:Bi:70:GLY:CA	5:Bi:301:A1A0P:O16	2.25	0.84
2:Ba:208:LEU:HD13	5:Cc:303:A1A0P:C7	2.06	0.84
5:Cb:308:A1A0P:C34	5:Cb:308:A1A0P:C21	2.55	0.84
2:Be:211:LEU:HD12	5:Be:302:A1A0P:C48	2.07	0.84
5:Cg:302:A1A0P:C17	5:Ch:308:A1A0P:C34	2.56	0.84
5:Ch:302:A1A0P:C17	5:Ci:308:A1A0P:C34	2.55	0.84
1:Ac:237:MET:CG	5:Ac:503:A1A0P:C20	2.56	0.84
1:Ad:237:MET:CG	5:Ad:503:A1A0P:C20	2.54	0.84
5:Bd:309:A1A0P:C46	3:Cd:233:LEU:HD13	2.08	0.84
1:Ab:237:MET:SD	5:Ab:503:A1A0P:C21	2.66	0.84
5:Ca:308:A1A0P:C34	5:Ca:308:A1A0P:C21	2.55	0.84
5:Cd:308:A1A0P:C34	5:Cf:302:A1A0P:C17	2.56	0.84
1:Ag:231:THR:HG21	5:Ag:502:A1A0P:O5	1.73	0.84
2:Bd:251:PHE:HZ	5:Bd:309:A1A0P:C48	1.84	0.84
3:Cd:241:ILE:HG13	5:Cd:302:A1A0P:C43	2.08	0.84
1:Ab:231:THR:HG21	5:Ab:502:A1A0P:O5	1.76	0.83
5:Ch:308:A1A0P:C34	5:Ch:308:A1A0P:C21	2.55	0.83
5:Ci:308:A1A0P:C34	5:Ci:308:A1A0P:C21	2.55	0.83
5:Cc:308:A1A0P:C34	5:Cc:308:A1A0P:C21	2.55	0.83
5:Ce:302:A1A0P:C17	5:Cf:308:A1A0P:C34	2.57	0.83
5:Cf:308:A1A0P:C34	5:Cf:308:A1A0P:C21	2.55	0.83
5:Bb:307:A1A0P:C46	3:Cc:233:LEU:HD13	2.05	0.83
5:Be:308:A1A0P:C46	3:Cf:233:LEU:HD13	2.03	0.83
5:Ce:308:A1A0P:C34	5:Ce:308:A1A0P:C21	2.55	0.83
2:Ba:251:PHE:HE1	5:Cc:303:A1A0P:C33	1.92	0.83
1:Ai:237:MET:SD	5:Ai:503:A1A0P:C21	2.66	0.83
1:Af:231:THR:CG2	5:Af:502:A1A0P:C4	2.57	0.83
5:Bi:308:A1A0P:C45	3:Ch:229:PHE:CE2	2.62	0.83
5:Cb:302:A1A0P:C17	5:Cc:308:A1A0P:C34	2.55	0.83
1:Aa:237:MET:CG	5:Aa:503:A1A0P:C20	2.57	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:208:LEU:HD13	5:Ce:303:A1A0P:C7	2.08	0.82
2:Ba:241:VAL:HB	5:Cc:304:A1A0P:C34	2.09	0.82
1:Ah:237:MET:HG2	5:Ah:503:A1A0P:C21	2.09	0.82
1:Ae:237:MET:CG	5:Ae:503:A1A0P:C20	2.56	0.82
2:Bc:208:LEU:HD13	5:Ca:303:A1A0P:C7	2.10	0.82
5:Cg:308:A1A0P:C34	5:Ci:302:A1A0P:C17	2.57	0.82
1:Ah:237:MET:CG	5:Ah:503:A1A0P:C20	2.56	0.82
1:Ac:231:THR:CG2	5:Ac:502:A1A0P:C4	2.57	0.82
1:Ad:231:THR:HG21	5:Ad:502:A1A0P:C4	2.08	0.82
3:Cd:221:PRO:HB3	5:Cd:305:A1A0P:C7	2.06	0.82
2:Bc:211:LEU:HD12	5:Bc:302:A1A0P:C48	2.08	0.81
5:Bf:307:A1A0P:C46	3:Ce:233:LEU:HD13	2.10	0.81
1:Af:237:MET:CG	5:Af:503:A1A0P:C20	2.58	0.81
1:Ag:231:THR:CG2	5:Ag:502:A1A0P:C4	2.57	0.81
1:Ag:234:LYS:CE	5:Ag:502:A1A0P:O18	2.28	0.81
5:Cd:302:A1A0P:C17	5:Ce:308:A1A0P:C34	2.55	0.81
5:Ca:308:A1A0P:C34	5:Cc:302:A1A0P:C17	2.56	0.81
5:Ca:302:A1A0P:C17	5:Cb:308:A1A0P:C34	2.56	0.81
1:Ab:231:THR:HG23	5:Ab:502:A1A0P:C4	2.09	0.81
2:Ba:211:LEU:HD12	5:Ba:303:A1A0P:C48	2.08	0.81
1:Af:234:LYS:CE	5:Af:502:A1A0P:O18	2.28	0.81
2:Bd:103:THR:OG1	5:Bd:305:A1A0P:C33	2.27	0.81
2:Bi:103:THR:HB	5:Bi:304:A1A0P:C33	2.06	0.81
3:Cb:241:ILE:HG13	5:Cb:302:A1A0P:C43	2.10	0.81
1:Ac:234:LYS:CE	5:Ac:502:A1A0P:O18	2.28	0.81
2:Be:241:VAL:HB	5:Ce:304:A1A0P:C34	2.11	0.81
2:Bg:208:LEU:HD13	5:Ci:303:A1A0P:C7	2.11	0.81
5:Bi:308:A1A0P:C47	3:Ch:233:LEU:HD13	2.11	0.81
3:Ch:237:MET:C	5:Ch:302:A1A0P:C42	2.52	0.81
2:Bi:251:PHE:HD1	5:Cg:303:A1A0P:C33	1.52	0.80
1:Ad:237:MET:HG2	5:Ad:503:A1A0P:C21	2.12	0.80
2:Bb:251:PHE:HE1	5:Cb:303:A1A0P:C33	1.91	0.80
5:Be:308:A1A0P:C46	3:Cf:233:LEU:HD12	2.11	0.80
3:Cc:241:ILE:HG13	5:Cc:302:A1A0P:C43	2.11	0.80
2:Bg:246:TYR:HH	5:Ci:304:A1A0P:C40	1.93	0.80
2:Bi:246:TYR:HH	5:Cg:304:A1A0P:C40	1.90	0.80
2:Bf:211:LEU:HD12	5:Bf:302:A1A0P:C48	2.10	0.80
1:Ae:237:MET:SD	5:Ae:503:A1A0P:C21	2.69	0.80
2:Bd:251:PHE:HD1	5:Cf:303:A1A0P:C33	1.48	0.80
5:Bd:309:A1A0P:C46	3:Cd:233:LEU:HD12	2.08	0.80
1:Ab:231:THR:HG21	5:Ab:502:A1A0P:C4	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bi:241:VAL:HB	5:Cg:304:A1A0P:C34	2.12	0.80
2:Bd:241:VAL:HB	5:Cf:304:A1A0P:C34	2.11	0.80
3:Cf:241:ILE:HG13	5:Cf:302:A1A0P:C43	2.12	0.80
3:Ch:221:PRO:HB3	5:Ch:305:A1A0P:C7	2.13	0.79
3:Cf:241:ILE:CD1	5:Cf:302:A1A0P:C30	2.59	0.79
3:Cg:221:PRO:CA	5:Cg:305:A1A0P:C7	2.61	0.79
5:Ac:503:A1A0P:C20	3:Cb:144:LEU:HD13	2.13	0.79
2:Ba:246:TYR:HH	5:Cc:304:A1A0P:C40	1.92	0.79
2:Bc:241:VAL:HB	5:Ca:304:A1A0P:C34	2.12	0.79
2:Bg:70:GLY:CA	5:Bg:302:A1A0P:O16	2.31	0.79
2:Bg:241:VAL:HB	5:Ci:304:A1A0P:C34	2.13	0.79
1:Ae:231:THR:CG2	5:Ae:502:A1A0P:C4	2.60	0.79
5:Bd:309:A1A0P:C45	3:Cd:229:PHE:CE2	2.66	0.78
3:Cd:221:PRO:HG3	5:Cd:305:A1A0P:O3	1.82	0.78
1:Ac:339:ASP:OD2	1:Ac:374:TYR:CE1	2.34	0.78
5:Bg:309:A1A0P:C22	5:Cg:304:A1A0P:C23	2.62	0.78
2:Bd:70:GLY:CA	5:Bd:302:A1A0P:O16	2.32	0.78
2:Bh:246:TYR:HH	5:Ch:304:A1A0P:C7	1.96	0.78
3:Cd:237:MET:C	5:Cd:302:A1A0P:C42	2.57	0.78
2:Bh:211:LEU:HD12	5:Bh:302:A1A0P:C48	2.13	0.78
2:Bi:246:TYR:CZ	5:Cg:304:A1A0P:C41	2.66	0.78
5:Bh:307:A1A0P:C22	5:Ci:304:A1A0P:C23	2.62	0.78
1:Af:339:ASP:OD2	1:Af:374:TYR:CE1	2.34	0.78
5:Bb:307:A1A0P:C22	5:Cc:304:A1A0P:C23	2.62	0.78
5:Be:308:A1A0P:C22	5:Cf:304:A1A0P:C23	2.62	0.78
2:Bh:103:THR:OG1	5:Bh:304:A1A0P:C33	2.31	0.78
5:Bi:308:A1A0P:C46	3:Ch:233:LEU:HD13	2.07	0.78
5:Bc:308:A1A0P:C46	3:Cb:233:LEU:HD12	2.11	0.77
5:Bf:307:A1A0P:C37	5:Cc:304:A1A0P:C26	2.63	0.77
1:Ag:237:MET:CG	5:Ag:503:A1A0P:C20	2.59	0.77
1:Ah:165:GLU:CA	1:Ah:167:ARG:HH12	1.77	0.77
5:Bb:307:A1A0P:C37	5:Cc:304:A1A0P:C26	2.63	0.77
5:Bc:308:A1A0P:C37	5:Cb:304:A1A0P:C26	2.63	0.77
5:Bh:307:A1A0P:C45	3:Ci:229:PHE:CE2	2.66	0.77
2:Bb:211:LEU:HD12	5:Bb:302:A1A0P:C48	2.15	0.77
5:Bd:309:A1A0P:C22	5:Cd:304:A1A0P:C23	2.62	0.77
5:Bd:309:A1A0P:C37	5:Cd:304:A1A0P:C26	2.63	0.77
5:Bi:308:A1A0P:C22	5:Ch:304:A1A0P:C23	2.62	0.77
3:Ci:34:PHE:HA	5:Ci:307:A1A0P:C48	2.13	0.77
5:Ba:309:A1A0P:C22	5:Ca:304:A1A0P:C23	2.62	0.77
5:Ba:309:A1A0P:C37	5:Ca:304:A1A0P:C26	2.63	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bf:307:A1A0P:C22	5:Ce:304:A1A0P:C23	2.62	0.77
5:Bg:309:A1A0P:C37	5:Cg:304:A1A0P:C26	2.63	0.77
3:Cg:241:ILE:HG13	5:Cg:302:A1A0P:C43	2.14	0.77
2:Bg:215:VAL:CG2	5:Bg:303:A1A0P:C47	2.63	0.77
5:Af:503:A1A0P:C20	3:Ce:144:LEU:HD13	2.14	0.77
3:Ch:237:MET:HG3	5:Ch:302:A1A0P:C42	2.03	0.77
5:Bi:308:A1A0P:C37	5:Ch:304:A1A0P:C26	2.63	0.76
5:Bb:307:A1A0P:C45	3:Cc:229:PHE:CE2	2.67	0.76
2:Be:70:GLY:CA	5:Be:301:A1A0P:O16	2.33	0.76
5:Bd:309:A1A0P:C47	3:Cd:233:LEU:HD13	2.15	0.76
5:Be:308:A1A0P:C37	5:Cf:304:A1A0P:C26	2.63	0.76
2:Bi:246:TYR:CE2	5:Cg:304:A1A0P:C40	2.68	0.76
3:Ca:34:PHE:HA	5:Ca:307:A1A0P:C48	2.16	0.76
5:Bc:308:A1A0P:C22	5:Cb:304:A1A0P:C23	2.62	0.76
5:Bh:307:A1A0P:C37	5:Ci:304:A1A0P:C26	2.63	0.76
5:Ag:503:A1A0P:C20	3:Ci:144:LEU:HD13	2.16	0.76
5:Bb:307:A1A0P:C46	3:Cc:233:LEU:HD12	2.13	0.76
1:Ah:234:LYS:CE	5:Ah:502:A1A0P:O18	2.34	0.76
2:Bd:103:THR:HB	5:Bd:305:A1A0P:C33	2.15	0.76
2:Bi:96:GLU:HA	5:Bi:306:A1A0P:C29	2.16	0.76
1:Aa:234:LYS:CE	5:Aa:502:A1A0P:O18	2.34	0.76
1:Ag:231:THR:HG21	5:Ag:502:A1A0P:C4	2.16	0.76
1:Ai:237:MET:HG2	5:Ai:503:A1A0P:C21	2.16	0.76
1:Af:231:THR:HG21	5:Af:502:A1A0P:C4	2.16	0.76
1:Ag:58:LYS:HD2	1:Ag:158:THR:CB	2.13	0.76
5:Bi:308:A1A0P:C33	5:Ch:304:A1A0P:C44	2.64	0.76
1:Aa:231:THR:HG21	5:Aa:502:A1A0P:O5	1.81	0.75
5:Ab:503:A1A0P:C20	3:Ca:144:LEU:HD13	2.16	0.75
5:Bf:307:A1A0P:C45	3:Ce:229:PHE:CE2	2.69	0.75
3:Cf:221:PRO:CA	5:Cf:305:A1A0P:C7	2.63	0.75
3:Cg:241:ILE:CD1	5:Cg:302:A1A0P:C30	2.65	0.75
5:Be:308:A1A0P:C47	3:Cf:233:LEU:HD13	2.16	0.75
5:Bh:307:A1A0P:C46	3:Ci:233:LEU:HD13	2.12	0.75
3:Ce:34:PHE:HA	5:Ce:307:A1A0P:C48	2.15	0.75
3:Cg:241:ILE:HD11	5:Cg:302:A1A0P:C45	2.16	0.75
5:Bh:307:A1A0P:C33	5:Ci:304:A1A0P:C44	2.64	0.75
1:Aa:339:ASP:OD2	1:Aa:374:TYR:CE1	2.33	0.75
5:Bc:308:A1A0P:C33	5:Cb:304:A1A0P:C44	2.64	0.75
2:Bf:70:GLY:CA	5:Bf:301:A1A0P:O16	2.35	0.75
2:Bf:103:THR:OG1	5:Bf:304:A1A0P:C33	2.34	0.75
5:Bb:307:A1A0P:C33	5:Cc:304:A1A0P:C44	2.64	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bd:309:A1A0P:C33	5:Cd:304:A1A0P:C44	2.64	0.74
1:Ag:231:THR:HG23	5:Ag:502:A1A0P:C4	2.18	0.74
1:Ah:339:ASP:OD2	1:Ah:374:TYR:CE1	2.33	0.74
5:Bc:308:A1A0P:C47	3:Cb:233:LEU:HD13	2.17	0.74
5:Bc:308:A1A0P:C37	5:Cb:304:A1A0P:C27	2.65	0.74
5:Bf:307:A1A0P:C33	5:Ce:304:A1A0P:C44	2.64	0.74
5:Bg:309:A1A0P:C33	5:Cg:304:A1A0P:C44	2.64	0.74
3:Ca:241:ILE:HG13	5:Ca:302:A1A0P:C43	2.17	0.74
3:Ch:241:ILE:HD11	5:Ch:302:A1A0P:C45	2.17	0.74
1:Ac:231:THR:HG23	5:Ac:502:A1A0P:C4	2.17	0.74
5:Ba:309:A1A0P:C37	5:Ca:304:A1A0P:C27	2.65	0.74
2:Be:215:VAL:CG2	5:Be:302:A1A0P:C47	2.65	0.74
5:Be:308:A1A0P:C33	5:Cf:304:A1A0P:C44	2.64	0.74
2:Bc:70:GLY:CA	5:Bc:301:A1A0P:O16	2.36	0.74
2:Bi:215:VAL:CG2	5:Bi:302:A1A0P:C47	2.65	0.74
5:Ba:308:A1A0P:C12	5:Cc:304:A1A0P:C11	2.66	0.74
5:Ba:309:A1A0P:C33	5:Ca:304:A1A0P:C44	2.64	0.74
2:Bd:246:TYR:CZ	5:Cf:304:A1A0P:C41	2.71	0.74
5:Bg:309:A1A0P:C37	5:Cg:304:A1A0P:C27	2.65	0.74
5:Bi:308:A1A0P:C37	5:Ch:304:A1A0P:C27	2.65	0.74
3:Cf:237:MET:HG3	5:Cf:302:A1A0P:C42	2.08	0.74
1:Ai:339:ASP:OD2	1:Ai:374:TYR:CE1	2.33	0.74
5:Bh:307:A1A0P:C37	5:Ci:304:A1A0P:C27	2.65	0.74
5:Cb:302:A1A0P:O18	5:Cc:308:A1A0P:C34	2.36	0.74
5:Bf:307:A1A0P:C37	5:Ce:304:A1A0P:C27	2.65	0.74
3:Cg:237:MET:HG3	5:Cg:302:A1A0P:C42	2.07	0.74
5:Bb:307:A1A0P:C37	5:Cc:304:A1A0P:C27	2.65	0.74
5:Be:308:A1A0P:C37	5:Cf:304:A1A0P:C27	2.65	0.74
1:Ae:339:ASP:OD2	1:Ae:374:TYR:CE1	2.33	0.74
2:Bh:208:LEU:HD13	5:Ch:303:A1A0P:C34	2.17	0.74
5:Bh:308:A1A0P:C12	5:Ch:304:A1A0P:C11	2.66	0.74
5:Cd:302:A1A0P:O18	5:Ce:308:A1A0P:C34	2.36	0.74
2:Bb:103:THR:OG1	5:Bb:304:A1A0P:C33	2.35	0.73
2:Bh:229:TRP:CZ3	5:Bh:307:A1A0P:C34	2.71	0.73
3:Cb:241:ILE:HD11	5:Cb:302:A1A0P:C45	2.18	0.73
5:Bc:307:A1A0P:C12	5:Ca:304:A1A0P:C11	2.66	0.73
1:Ad:339:ASP:OD2	1:Ad:374:TYR:CE1	2.33	0.73
2:Bd:215:VAL:CG2	5:Bd:303:A1A0P:C47	2.66	0.73
5:Bi:307:A1A0P:C12	5:Cg:304:A1A0P:C11	2.66	0.73
1:Ae:58:LYS:HD2	1:Ae:158:THR:CB	2.13	0.73
5:Bg:309:A1A0P:C47	3:Cg:233:LEU:HD13	2.14	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cf:241:ILE:HD11	5:Cf:302:A1A0P:C45	2.18	0.73
1:Ad:58:LYS:HD2	1:Ad:158:THR:CB	2.13	0.73
3:Ca:221:PRO:CA	5:Ca:305:A1A0P:C7	2.66	0.73
3:Cc:237:MET:C	5:Cc:302:A1A0P:C42	2.61	0.73
5:Be:307:A1A0P:C12	5:Ce:304:A1A0P:C11	2.66	0.73
2:Bh:246:TYR:CZ	5:Ch:304:A1A0P:C41	2.72	0.73
1:Ac:231:THR:HG21	5:Ac:502:A1A0P:C4	2.16	0.73
2:Bf:246:TYR:HH	5:Cd:304:A1A0P:C7	1.98	0.73
1:Ab:234:LYS:HE3	5:Ab:502:A1A0P:O18	1.89	0.73
1:Ab:339:ASP:OD2	1:Ab:374:TYR:CE1	2.33	0.73
5:Bd:309:A1A0P:C37	5:Cd:304:A1A0P:C27	2.65	0.73
2:Bh:70:GLY:CA	5:Bh:301:A1A0P:O16	2.36	0.73
3:Ce:241:ILE:HG13	5:Ce:302:A1A0P:C43	2.19	0.73
1:Aa:231:THR:CG2	5:Aa:502:A1A0P:C4	2.66	0.72
1:Ab:231:THR:CB	5:Ab:502:A1A0P:O5	2.36	0.72
2:Bd:211:LEU:HD12	5:Bd:303:A1A0P:C48	2.19	0.72
2:Be:103:THR:OG1	5:Be:304:A1A0P:C33	2.37	0.72
5:Ch:302:A1A0P:O18	5:Ci:308:A1A0P:C34	2.36	0.72
2:Be:103:THR:HB	5:Be:304:A1A0P:C33	2.18	0.72
5:Bg:309:A1A0P:C46	3:Cg:233:LEU:HD12	2.11	0.72
5:Ca:308:A1A0P:C34	5:Cc:302:A1A0P:O18	2.37	0.72
5:Cd:308:A1A0P:C34	5:Cf:302:A1A0P:O18	2.37	0.72
5:Bi:308:A1A0P:C45	3:Ch:229:PHE:HE2	2.02	0.72
3:Cb:221:PRO:CA	5:Cb:305:A1A0P:C7	2.66	0.72
2:Bb:70:GLY:CA	5:Bb:301:A1A0P:O16	2.38	0.72
5:Bd:308:A1A0P:C12	5:Cf:304:A1A0P:C11	2.66	0.72
5:Bf:308:A1A0P:C12	5:Cd:304:A1A0P:C11	2.66	0.72
2:Bd:246:TYR:CE2	5:Cf:304:A1A0P:C40	2.72	0.72
3:Cg:34:PHE:HA	5:Cg:307:A1A0P:C48	2.20	0.72
5:Ba:309:A1A0P:C46	3:Ca:233:LEU:HD12	2.17	0.71
5:Cg:302:A1A0P:O18	5:Ch:308:A1A0P:C34	2.37	0.71
1:Ac:58:LYS:HD2	1:Ac:158:THR:CB	2.13	0.71
1:Ag:339:ASP:OD2	1:Ag:374:TYR:CE1	2.34	0.71
2:Bd:154:GLU:OE1	3:Cf:110:ASN:ND2	2.23	0.71
2:Bg:154:GLU:OE1	3:Ci:110:ASN:ND2	2.23	0.71
5:Ce:302:A1A0P:O18	5:Cf:308:A1A0P:C34	2.37	0.71
5:Ae:503:A1A0P:C20	3:Cd:144:LEU:HD13	2.20	0.71
2:Bb:229:TRP:CZ3	5:Bb:307:A1A0P:C34	2.72	0.71
5:Bf:307:A1A0P:C46	3:Ce:233:LEU:HD12	2.16	0.71
5:Bg:308:A1A0P:C12	5:Ci:304:A1A0P:C11	2.66	0.71
5:Ca:302:A1A0P:O18	5:Cb:308:A1A0P:C34	2.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Aa:503:A1A0P:C20	3:Cc:144:LEU:HD13	2.21	0.71
2:Bc:246:TYR:HH	5:Ca:304:A1A0P:C7	2.03	0.71
5:Bc:308:A1A0P:C45	3:Cb:229:PHE:CE2	2.73	0.71
1:Ae:231:THR:HG21	5:Ae:502:A1A0P:C4	2.20	0.71
2:Bh:208:LEU:HD22	5:Ch:303:A1A0P:C34	2.21	0.71
1:Aa:58:LYS:HD2	1:Aa:158:THR:CB	2.13	0.71
2:Ba:154:GLU:OE1	3:Cc:110:ASN:ND2	2.23	0.71
3:Cd:237:MET:HG3	5:Cd:302:A1A0P:C42	2.05	0.71
2:Bb:154:GLU:OE1	3:Cb:110:ASN:ND2	2.24	0.71
5:Bb:309:A1A0P:C12	5:Cb:304:A1A0P:C11	2.66	0.71
2:Be:154:GLU:OE1	3:Ce:110:ASN:ND2	2.24	0.71
2:Bf:246:TYR:CZ	5:Cd:304:A1A0P:C41	2.74	0.71
3:Cd:241:ILE:HD11	5:Cd:302:A1A0P:C45	2.20	0.71
5:Cg:308:A1A0P:C34	5:Ci:302:A1A0P:O18	2.37	0.71
1:Ad:234:LYS:CE	5:Ad:502:A1A0P:O18	2.38	0.71
5:Ai:503:A1A0P:C20	3:Ch:144:LEU:HD13	2.21	0.71
2:Bf:215:VAL:CG2	5:Bf:302:A1A0P:C47	2.68	0.71
2:Bh:154:GLU:OE1	3:Ch:110:ASN:ND2	2.24	0.71
3:Ch:221:PRO:HG3	5:Ch:305:A1A0P:O3	1.89	0.71
2:Bc:215:VAL:CG2	5:Bc:302:A1A0P:C47	2.68	0.70
2:Bf:229:TRP:CZ3	5:Bf:307:A1A0P:C34	2.74	0.70
2:Bg:103:THR:HB	5:Bg:305:A1A0P:C33	2.16	0.70
2:Bg:103:THR:OG1	5:Bg:305:A1A0P:C33	2.39	0.70
3:Ci:241:ILE:HG13	5:Ci:302:A1A0P:C43	2.21	0.70
1:Ac:237:MET:HG2	5:Ac:503:A1A0P:C21	2.20	0.70
5:Ah:503:A1A0P:O15	5:Bg:306:A1A0P:C8	2.40	0.70
1:Ab:58:LYS:HD2	1:Ab:158:THR:CB	2.13	0.70
5:Ad:503:A1A0P:O15	5:Be:305:A1A0P:C8	2.40	0.70
5:Ba:309:A1A0P:C45	3:Ca:229:PHE:CE2	2.75	0.70
2:Bf:154:GLU:OE1	3:Cd:110:ASN:ND2	2.24	0.70
5:Ai:503:A1A0P:O15	5:Bi:305:A1A0P:C8	2.40	0.70
3:Cb:34:PHE:HA	5:Cb:307:A1A0P:C48	2.21	0.70
3:Cd:221:PRO:CA	5:Cd:305:A1A0P:C7	2.70	0.70
5:Af:503:A1A0P:O15	5:Bf:305:A1A0P:C8	2.39	0.70
5:Bg:308:A1A0P:C20	5:Bi:307:A1A0P:C35	2.70	0.70
2:Ba:208:LEU:HD22	5:Cc:303:A1A0P:C34	2.21	0.70
5:Be:308:A1A0P:C45	3:Cf:229:PHE:CE2	2.75	0.69
5:Ab:503:A1A0P:O15	5:Ba:306:A1A0P:C8	2.39	0.69
5:Ae:503:A1A0P:O15	5:Bd:306:A1A0P:C8	2.39	0.69
5:Ba:308:A1A0P:C20	5:Bc:307:A1A0P:C35	2.70	0.69
5:Cg:302:A1A0P:C19	5:Ch:308:A1A0P:C36	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Aa:503:A1A0P:O15	5:Bb:305:A1A0P:C8	2.40	0.69
1:Ab:237:MET:CG	5:Ab:503:A1A0P:C20	2.65	0.69
1:Ae:234:LYS:CE	5:Ae:502:A1A0P:O18	2.40	0.69
1:Ag:237:MET:HG2	5:Ag:503:A1A0P:C21	2.23	0.69
5:Ah:503:A1A0P:C19	3:Cg:144:LEU:HD13	2.22	0.69
2:Bc:154:GLU:OE1	3:Ca:110:ASN:ND2	2.24	0.69
3:Cc:221:PRO:CA	5:Cc:305:A1A0P:C7	2.70	0.69
3:Ch:237:MET:CA	5:Ch:302:A1A0P:C42	2.70	0.69
1:Ah:237:MET:CG	5:Ah:503:A1A0P:C21	2.70	0.69
2:Bi:154:GLU:OE1	3:Cg:110:ASN:ND2	2.24	0.69
5:Cd:302:A1A0P:C19	5:Ce:308:A1A0P:C36	2.70	0.69
5:Ag:503:A1A0P:O15	5:Bh:305:A1A0P:C8	2.40	0.69
5:Bd:308:A1A0P:C35	5:Be:307:A1A0P:C20	2.70	0.69
5:Bd:308:A1A0P:C20	5:Bf:308:A1A0P:C35	2.71	0.69
3:Ch:241:ILE:CG1	5:Ch:302:A1A0P:C43	2.70	0.69
1:Af:231:THR:HG23	5:Af:502:A1A0P:C4	2.17	0.69
2:Bc:103:THR:OG1	5:Bc:304:A1A0P:C33	2.39	0.69
5:Cg:308:A1A0P:C36	5:Ci:302:A1A0P:C19	2.71	0.69
5:Ac:503:A1A0P:O15	5:Bc:305:A1A0P:C8	2.40	0.69
1:Ah:58:LYS:HD2	1:Ah:158:THR:CB	2.13	0.69
5:Cb:302:A1A0P:C19	5:Cc:308:A1A0P:C36	2.70	0.69
1:Ai:231:THR:CG2	5:Ai:502:A1A0P:C4	2.69	0.69
2:Bd:208:LEU:HD13	5:Cf:303:A1A0P:C34	2.23	0.69
2:Bh:229:TRP:CH2	5:Bh:307:A1A0P:C34	2.76	0.69
3:Cc:34:PHE:HA	5:Cc:307:A1A0P:C48	2.23	0.69
3:Cc:241:ILE:HD11	5:Cc:302:A1A0P:C32	2.23	0.69
5:Ce:302:A1A0P:C19	5:Cf:308:A1A0P:C36	2.71	0.69
5:Ch:302:A1A0P:C19	5:Ci:308:A1A0P:C36	2.70	0.69
2:Bf:246:TYR:HH	5:Cd:304:A1A0P:C40	2.02	0.69
5:Bg:308:A1A0P:C35	5:Bh:308:A1A0P:C20	2.71	0.69
1:Ab:381:TYR:CZ	3:Cb:217:LYS:HA	2.29	0.68
1:Ae:231:THR:HG23	5:Ae:502:A1A0P:C4	2.19	0.68
1:Ae:381:TYR:CZ	3:Ce:217:LYS:HA	2.29	0.68
2:Bh:215:VAL:CG2	5:Bh:302:A1A0P:C47	2.70	0.68
5:Bh:308:A1A0P:C35	5:Bi:307:A1A0P:C20	2.71	0.68
5:Ca:302:A1A0P:C19	5:Cb:308:A1A0P:C36	2.70	0.68
1:Ae:237:MET:HG2	5:Ae:503:A1A0P:C21	2.22	0.68
1:Ag:166:PHE:C	1:Ag:167:ARG:HD2	2.19	0.68
3:Ce:221:PRO:CA	5:Ce:305:A1A0P:C7	2.70	0.68
3:Ce:237:MET:C	5:Ce:302:A1A0P:C42	2.66	0.68
1:Ab:231:THR:HG21	5:Ab:502:A1A0P:C7	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:237:MET:CG	5:Ad:503:A1A0P:C21	2.71	0.68
1:Ah:60:LYS:HG2	1:Ah:61:ILE:N	2.09	0.68
1:Aa:166:PHE:C	1:Aa:167:ARG:HD2	2.19	0.68
2:Bf:208:LEU:HD13	5:Cd:303:A1A0P:C34	2.22	0.68
2:Bf:208:LEU:HD22	5:Cd:303:A1A0P:C34	2.23	0.68
5:Ca:308:A1A0P:C36	5:Cc:302:A1A0P:C19	2.71	0.68
5:Be:307:A1A0P:C35	5:Bf:308:A1A0P:C20	2.71	0.68
3:Cc:241:ILE:HD11	5:Cc:302:A1A0P:C45	2.24	0.68
5:Cd:308:A1A0P:C36	5:Cf:302:A1A0P:C19	2.70	0.68
1:Ae:166:PHE:C	1:Ae:167:ARG:HD2	2.19	0.68
1:Af:166:PHE:C	1:Af:167:ARG:HD2	2.19	0.68
2:Ba:70:GLY:CA	5:Ba:302:A1A0P:O16	2.42	0.68
5:Bb:307:A1A0P:C45	3:Cc:229:PHE:CZ	2.77	0.68
5:Bb:309:A1A0P:C35	5:Bc:307:A1A0P:C20	2.71	0.68
1:Ai:166:PHE:C	1:Ai:167:ARG:HD2	2.19	0.68
3:Cd:237:MET:CA	5:Cd:302:A1A0P:C42	2.72	0.68
2:Ba:229:TRP:CZ3	5:Ba:309:A1A0P:C34	2.76	0.68
2:Bb:246:TYR:CE2	5:Cb:304:A1A0P:C40	2.76	0.68
3:Ci:237:MET:C	5:Ci:302:A1A0P:C42	2.66	0.68
1:Ab:166:PHE:C	1:Ab:167:ARG:HD2	2.19	0.68
1:Ad:166:PHE:C	1:Ad:167:ARG:HD2	2.19	0.68
1:Af:237:MET:HG2	5:Af:503:A1A0P:C21	2.22	0.68
1:Ah:166:PHE:C	1:Ah:167:ARG:HD2	2.19	0.68
2:Ba:215:VAL:CG2	5:Ba:303:A1A0P:C47	2.72	0.68
2:Bb:229:TRP:CH2	5:Bb:307:A1A0P:C34	2.77	0.68
3:Cb:237:MET:C	5:Cb:302:A1A0P:C42	2.66	0.68
1:Ah:381:TYR:CZ	3:Ch:217:LYS:HA	2.29	0.68
5:Bg:308:A1A0P:C21	5:Bi:307:A1A0P:C36	2.72	0.68
3:Cf:34:PHE:HA	5:Cf:307:A1A0P:C48	2.24	0.68
1:Ac:166:PHE:C	1:Ac:167:ARG:HD2	2.19	0.67
5:Bd:308:A1A0P:C36	5:Be:307:A1A0P:C21	2.72	0.67
3:Ca:161:LEU:HD22	5:Ca:305:A1A0P:C38	2.23	0.67
5:Ba:308:A1A0P:C35	5:Bb:309:A1A0P:C20	2.71	0.67
2:Bi:211:LEU:HD12	5:Bi:302:A1A0P:C48	2.23	0.67
3:Ch:221:PRO:CA	5:Ch:305:A1A0P:C7	2.72	0.67
3:Ci:221:PRO:CA	5:Ci:305:A1A0P:C7	2.73	0.67
2:Bi:229:TRP:CH2	5:Bi:308:A1A0P:C34	2.77	0.67
5:Ba:309:A1A0P:C37	5:Ca:304:A1A0P:C28	2.73	0.67
2:Bb:246:TYR:CZ	5:Cb:304:A1A0P:C41	2.77	0.67
5:Bg:309:A1A0P:C37	5:Cg:304:A1A0P:C28	2.73	0.67
5:Bh:307:A1A0P:C45	3:Ci:229:PHE:CZ	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ba:308:A1A0P:C21	5:Bc:307:A1A0P:C36	2.72	0.67
5:Bf:307:A1A0P:C37	5:Ce:304:A1A0P:C28	2.73	0.67
5:Bb:307:A1A0P:C37	5:Cc:304:A1A0P:C28	2.73	0.67
2:Bd:96:GLU:HA	5:Bd:307:A1A0P:C29	2.24	0.67
3:Cg:161:LEU:HD22	5:Cg:305:A1A0P:C38	2.24	0.67
2:Bb:215:VAL:CG2	5:Bb:302:A1A0P:C47	2.73	0.67
5:Bc:308:A1A0P:C37	5:Cb:304:A1A0P:C28	2.73	0.67
1:Ai:58:LYS:HD2	1:Ai:158:THR:CB	2.13	0.67
2:Bb:208:LEU:HD13	5:Cb:303:A1A0P:C34	2.24	0.67
3:Cb:237:MET:HG3	5:Cb:302:A1A0P:C42	2.13	0.67
5:Bg:308:A1A0P:C36	5:Bh:308:A1A0P:C21	2.73	0.67
5:Bi:308:A1A0P:C37	5:Ch:304:A1A0P:C28	2.73	0.67
5:Bb:309:A1A0P:C36	5:Bc:307:A1A0P:C21	2.73	0.67
5:Bd:309:A1A0P:C37	5:Cd:304:A1A0P:C28	2.73	0.67
2:Bf:229:TRP:CH2	5:Bf:307:A1A0P:C34	2.78	0.67
2:Bi:100:GLU:HG3	5:Bi:306:A1A0P:C33	2.25	0.67
5:Be:308:A1A0P:C37	5:Cf:304:A1A0P:C28	2.73	0.66
3:Ca:241:ILE:HD11	5:Ca:302:A1A0P:C45	2.24	0.66
1:Aa:237:MET:HG2	5:Aa:503:A1A0P:C21	2.25	0.66
5:Be:307:A1A0P:C36	5:Bf:308:A1A0P:C21	2.73	0.66
5:Bh:308:A1A0P:C36	5:Bi:307:A1A0P:C21	2.73	0.66
3:Cf:237:MET:C	5:Cf:302:A1A0P:C42	2.68	0.66
5:Bd:308:A1A0P:C21	5:Bf:308:A1A0P:C36	2.73	0.66
3:Cc:240:PHE:CB	5:Cc:302:A1A0P:C41	2.63	0.66
3:Cg:105:LEU:HD13	5:Cg:306:A1A0P:C32	2.26	0.66
1:Ad:231:THR:HG23	5:Ad:502:A1A0P:C4	2.16	0.66
2:Bc:103:THR:HB	5:Bc:304:A1A0P:C33	2.23	0.66
2:Bh:246:TYR:CE2	5:Ch:304:A1A0P:C40	2.78	0.66
5:Bd:309:A1A0P:C45	3:Cd:229:PHE:HE2	2.05	0.66
5:Ba:308:A1A0P:C36	5:Bb:309:A1A0P:C21	2.73	0.66
3:Ci:16:ARG:HH11	3:Ci:16:ARG:HG2	1.61	0.66
2:Bc:229:TRP:CZ3	5:Bc:308:A1A0P:C34	2.79	0.66
5:Bh:307:A1A0P:C46	3:Ci:233:LEU:HD12	2.18	0.66
2:Bi:208:LEU:HD13	5:Cg:303:A1A0P:C34	2.25	0.66
3:Cf:16:ARG:HH11	3:Cf:16:ARG:HG2	1.61	0.66
1:Ac:381:TYR:CZ	3:Cc:217:LYS:HA	2.31	0.66
3:Cc:16:ARG:HG2	3:Cc:16:ARG:HH11	1.61	0.66
1:Ai:381:TYR:CZ	3:Ci:217:LYS:HA	2.31	0.65
2:Be:246:TYR:CE2	5:Ce:304:A1A0P:C40	2.80	0.65
5:Bh:307:A1A0P:C45	3:Ci:229:PHE:HE2	2.08	0.65
5:Bg:309:A1A0P:C45	3:Cg:229:PHE:CE2	2.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bh:307:A1A0P:C37	5:Ci:304:A1A0P:C28	2.73	0.65
3:Ce:16:ARG:HG2	3:Ce:16:ARG:HH11	1.61	0.65
3:Ci:237:MET:CA	5:Ci:302:A1A0P:C42	2.75	0.65
1:Af:381:TYR:CZ	3:Cf:217:LYS:HA	2.31	0.65
2:Ba:103:THR:OG1	5:Ba:305:A1A0P:C33	2.44	0.65
2:Bd:229:TRP:CZ3	5:Bd:309:A1A0P:C34	2.80	0.65
2:Bf:103:THR:HB	5:Bf:304:A1A0P:C33	2.24	0.65
5:Cg:303:A1A0P:O5	5:Cg:303:A1A0P:C21	2.45	0.65
2:Bd:229:TRP:CH2	5:Bd:309:A1A0P:C34	2.79	0.65
5:Ce:303:A1A0P:C21	5:Ce:303:A1A0P:O5	2.45	0.65
2:Bh:246:TYR:HH	5:Ch:304:A1A0P:C40	2.05	0.65
2:Bi:229:TRP:CZ3	5:Bi:308:A1A0P:C34	2.80	0.65
3:Ca:16:ARG:HG2	3:Ca:16:ARG:HH11	1.61	0.65
3:Cd:241:ILE:CG1	5:Cd:302:A1A0P:C43	2.74	0.65
1:Ai:237:MET:CG	5:Ai:503:A1A0P:C21	2.74	0.65
5:Cf:303:A1A0P:O5	5:Cf:303:A1A0P:C21	2.45	0.65
3:Cf:161:LEU:HD22	5:Cf:305:A1A0P:C38	2.27	0.65
1:Ai:231:THR:HG21	5:Ai:502:A1A0P:C4	2.27	0.65
2:Bc:246:TYR:CE2	5:Ca:304:A1A0P:C40	2.79	0.65
3:Ci:237:MET:HG3	5:Ci:302:A1A0P:C42	2.13	0.65
2:Be:246:TYR:HH	5:Ce:304:A1A0P:C40	2.08	0.65
5:Bi:308:A1A0P:C45	3:Ch:229:PHE:CZ	2.80	0.65
3:Cc:237:MET:CA	5:Cc:302:A1A0P:C42	2.74	0.65
5:Cd:303:A1A0P:O5	5:Cd:303:A1A0P:C21	2.45	0.65
1:Af:58:LYS:HD2	1:Af:158:THR:CB	2.13	0.64
2:Bb:209:PRO:HG3	3:Cb:247:ASN:O	1.98	0.64
2:Be:209:PRO:HG3	3:Ce:247:ASN:O	1.98	0.64
5:Ch:303:A1A0P:C21	5:Ch:303:A1A0P:O5	2.45	0.64
5:Ci:303:A1A0P:O5	5:Ci:303:A1A0P:C21	2.45	0.64
2:Bg:50:TRP:CE2	5:Bg:305:A1A0P:C39	2.79	0.64
1:Aa:231:THR:HG23	5:Aa:502:A1A0P:C4	2.23	0.64
5:Bf:307:A1A0P:C45	3:Ce:229:PHE:CZ	2.80	0.64
5:Bh:307:A1A0P:C46	3:Ci:229:PHE:CZ	2.80	0.64
3:Cb:161:LEU:HD22	5:Cb:305:A1A0P:C38	2.27	0.64
1:Ab:231:THR:OG1	5:Ab:502:A1A0P:O5	2.12	0.64
2:Ba:209:PRO:HG3	3:Cc:247:ASN:O	1.98	0.64
2:Bf:246:TYR:CE2	5:Cd:304:A1A0P:C40	2.79	0.64
5:Ca:303:A1A0P:O5	5:Ca:303:A1A0P:C21	2.45	0.64
3:Cd:16:ARG:HG2	3:Cd:16:ARG:HH11	1.62	0.64
2:Ba:241:VAL:O	5:Cc:304:A1A0P:O5	2.15	0.64
2:Bh:209:PRO:HG3	3:Ch:247:ASN:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cb:16:ARG:HG2	3:Cb:16:ARG:HH11	1.62	0.64
2:Bd:209:PRO:HG3	3:Cf:247:ASN:O	1.98	0.64
2:Be:246:TYR:CZ	5:Ce:304:A1A0P:C41	2.79	0.64
5:Bb:307:A1A0P:C47	3:Cc:233:LEU:HD13	2.22	0.64
5:Bf:307:A1A0P:C45	3:Ce:229:PHE:HE2	2.10	0.64
5:Bh:307:A1A0P:C47	3:Ci:233:LEU:HD13	2.27	0.64
3:Ca:237:MET:C	5:Ca:302:A1A0P:C42	2.70	0.64
3:Cb:240:PHE:CB	5:Cb:302:A1A0P:C41	2.66	0.64
5:Cc:303:A1A0P:O5	5:Cc:303:A1A0P:C21	2.45	0.64
3:Cd:34:PHE:HA	5:Cd:307:A1A0P:C48	2.28	0.64
2:Bg:209:PRO:HG3	3:Ci:247:ASN:O	1.98	0.64
3:Ca:237:MET:HG3	5:Ca:302:A1A0P:C42	2.16	0.64
3:Ch:16:ARG:HG2	3:Ch:16:ARG:HH11	1.62	0.64
1:Ad:231:THR:CB	5:Ad:502:A1A0P:O5	2.44	0.64
5:Bb:307:A1A0P:C45	3:Cc:229:PHE:HE2	2.11	0.64
2:Ba:208:LEU:HD13	5:Cc:303:A1A0P:C34	2.27	0.63
3:Ca:241:ILE:HD11	5:Ca:302:A1A0P:C32	2.28	0.63
3:Ce:241:ILE:HD11	5:Ce:302:A1A0P:C45	2.28	0.63
5:Ad:503:A1A0P:C19	3:Cf:144:LEU:HD13	2.28	0.63
1:Af:231:THR:CB	5:Af:502:A1A0P:O5	2.47	0.63
2:Bd:158:THR:O	2:Bd:162:THR:HG23	1.98	0.63
5:Cb:303:A1A0P:C21	5:Cb:303:A1A0P:O5	2.45	0.63
3:Cg:16:ARG:HG2	3:Cg:16:ARG:HH11	1.62	0.63
3:Cb:241:ILE:CG1	5:Cb:302:A1A0P:C43	2.76	0.63
3:Cg:241:ILE:CG1	5:Cg:302:A1A0P:C43	2.76	0.63
2:Bc:158:THR:O	2:Bc:162:THR:HG23	1.98	0.63
2:Be:229:TRP:CZ3	5:Be:308:A1A0P:C34	2.81	0.63
2:Bc:246:TYR:CZ	5:Ca:304:A1A0P:C41	2.81	0.63
2:Be:158:THR:O	2:Be:162:THR:HG23	1.98	0.63
1:Ab:52:LEU:HD23	1:Ab:69:GLY:HA3	1.81	0.63
1:Af:52:LEU:HD23	1:Af:69:GLY:HA3	1.81	0.63
2:Bb:208:LEU:HD22	5:Cb:303:A1A0P:C34	2.29	0.63
2:Bc:209:PRO:HG3	3:Ca:247:ASN:O	1.99	0.63
5:Ce:302:A1A0P:C45	5:Ce:302:A1A0P:C32	2.77	0.63
1:Ac:52:LEU:HD23	1:Ac:69:GLY:HA3	1.81	0.63
1:Ag:231:THR:CB	5:Ag:502:A1A0P:O5	2.47	0.63
2:Ba:158:THR:O	2:Ba:162:THR:HG23	1.98	0.63
3:Cb:241:ILE:HD11	5:Cb:302:A1A0P:C32	2.28	0.63
1:Ai:52:LEU:HD23	1:Ai:69:GLY:HA3	1.81	0.63
5:Be:308:A1A0P:C38	5:Cf:304:A1A0P:C28	2.77	0.63
5:Bf:307:A1A0P:C47	3:Ce:233:LEU:HD13	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ce:237:MET:HG3	5:Ce:302:A1A0P:C42	2.11	0.63
3:Ce:237:MET:CA	5:Ce:302:A1A0P:C42	2.76	0.63
1:Ad:381:TYR:CZ	3:Cd:217:LYS:HA	2.34	0.63
2:Bg:215:VAL:HG23	5:Bg:303:A1A0P:C47	2.29	0.63
5:Bi:308:A1A0P:C38	5:Ch:304:A1A0P:C28	2.77	0.63
5:Cf:302:A1A0P:C45	5:Cf:302:A1A0P:C32	2.77	0.63
3:Cg:157:MET:HG2	3:Cg:232:ILE:HD11	1.81	0.63
2:Bb:162:THR:HG21	3:Cb:119:THR:HG21	1.82	0.62
5:Bd:309:A1A0P:C45	3:Cd:229:PHE:CZ	2.82	0.62
2:Bf:158:THR:O	2:Bf:162:THR:HG23	1.98	0.62
5:Cc:302:A1A0P:C32	5:Cc:302:A1A0P:C45	2.77	0.62
1:Ac:231:THR:CB	5:Ac:502:A1A0P:O5	2.47	0.62
5:Ba:309:A1A0P:C45	3:Ca:229:PHE:CZ	2.82	0.62
2:Bc:246:TYR:HH	5:Ca:304:A1A0P:C40	2.10	0.62
5:Bd:309:A1A0P:C38	5:Cd:304:A1A0P:C28	2.77	0.62
5:Bh:307:A1A0P:C38	5:Ci:304:A1A0P:C28	2.77	0.62
5:Ca:302:A1A0P:C45	5:Ca:302:A1A0P:C32	2.77	0.62
5:Ci:302:A1A0P:C32	5:Ci:302:A1A0P:C45	2.77	0.62
1:Ac:237:MET:CG	5:Ac:503:A1A0P:C21	2.77	0.62
1:Ag:381:TYR:CZ	3:Cg:217:LYS:HA	2.34	0.62
2:Ba:162:THR:HG21	3:Cc:119:THR:HG21	1.81	0.62
2:Bg:246:TYR:CE2	5:Ci:304:A1A0P:C40	2.82	0.62
2:Bh:158:THR:O	2:Bh:162:THR:HG23	1.98	0.62
3:Ca:240:PHE:CB	5:Ca:302:A1A0P:C41	2.67	0.62
3:Ch:237:MET:HB2	5:Ch:308:A1A0P:C44	2.28	0.62
1:Ab:58:LYS:HD3	1:Ab:158:THR:CB	2.24	0.62
2:Bc:229:TRP:CH2	5:Bc:308:A1A0P:C34	2.82	0.62
2:Be:162:THR:HG21	3:Ce:119:THR:HG21	1.82	0.62
3:Cf:157:MET:HG2	3:Cf:232:ILE:HD11	1.81	0.62
1:Ah:52:LEU:HD23	1:Ah:69:GLY:HA3	1.81	0.62
2:Bf:209:PRO:HG3	3:Cd:247:ASN:O	1.99	0.62
2:Bg:211:LEU:HD11	5:Bg:303:A1A0P:C48	2.26	0.62
2:Bi:158:THR:O	2:Bi:162:THR:HG23	1.98	0.62
5:Cb:302:A1A0P:C45	5:Cb:302:A1A0P:C32	2.77	0.62
3:Cd:241:ILE:HD11	5:Cd:302:A1A0P:C32	2.30	0.62
5:Ba:309:A1A0P:C38	5:Ca:304:A1A0P:C28	2.77	0.62
3:Cg:237:MET:C	5:Cg:302:A1A0P:C42	2.73	0.62
5:Ba:309:A1A0P:C47	3:Ca:233:LEU:HD13	2.23	0.62
2:Bb:246:TYR:HH	5:Cb:304:A1A0P:C40	2.12	0.62
2:Bg:162:THR:HG21	3:Ci:119:THR:HG21	1.81	0.62
2:Bi:162:THR:HG21	3:Cg:119:THR:HG21	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bi:209:PRO:HG3	3:Cg:247:ASN:O	1.99	0.62
3:Cd:157:MET:HG2	3:Cd:232:ILE:HD11	1.81	0.62
3:Cf:105:LEU:HD13	5:Cf:306:A1A0P:C32	2.28	0.62
2:Bb:158:THR:O	2:Bb:162:THR:HG23	1.98	0.62
2:Bc:162:THR:HG21	3:Ca:119:THR:HG21	1.82	0.62
2:Bg:158:THR:O	2:Bg:162:THR:HG23	1.98	0.62
3:Cf:241:ILE:CG1	5:Cf:302:A1A0P:C43	2.77	0.62
3:Ci:237:MET:HA	5:Ci:302:A1A0P:C42	2.30	0.62
3:Ci:241:ILE:HD11	5:Ci:302:A1A0P:C32	2.30	0.62
1:Aa:381:TYR:CZ	3:Ca:217:LYS:HA	2.34	0.62
5:Bb:307:A1A0P:C38	5:Cc:304:A1A0P:C28	2.77	0.62
3:Ca:157:MET:HG2	3:Ca:232:ILE:HD11	1.81	0.62
5:Cd:302:A1A0P:C45	5:Cd:302:A1A0P:C32	2.77	0.62
5:Cg:302:A1A0P:C45	5:Cg:302:A1A0P:C32	2.77	0.62
5:Ch:302:A1A0P:C45	5:Ch:302:A1A0P:C32	2.77	0.62
2:Ba:229:TRP:CH2	5:Ba:309:A1A0P:C34	2.83	0.62
2:Bb:103:THR:HB	5:Bb:304:A1A0P:C33	2.26	0.62
5:Bc:308:A1A0P:C38	5:Cb:304:A1A0P:C28	2.77	0.62
2:Bd:162:THR:HG21	3:Cf:119:THR:HG21	1.81	0.62
3:Ce:157:MET:HG2	3:Ce:232:ILE:HD11	1.81	0.62
3:Ch:240:PHE:CG	5:Ch:308:A1A0P:C38	2.83	0.62
1:Aa:58:LYS:HD3	1:Aa:158:THR:CB	2.24	0.61
1:Aa:231:THR:HG21	5:Aa:502:A1A0P:C4	2.27	0.61
1:Ad:52:LEU:HD23	1:Ad:69:GLY:HA3	1.81	0.61
1:Ae:52:LEU:HD23	1:Ae:69:GLY:HA3	1.81	0.61
2:Bc:241:VAL:O	5:Ca:304:A1A0P:O5	2.17	0.61
2:Be:50:TRP:CE2	5:Be:304:A1A0P:C39	2.83	0.61
2:Bg:246:TYR:CZ	5:Ci:304:A1A0P:C41	2.82	0.61
2:Bh:162:THR:HG21	3:Ch:119:THR:HG21	1.81	0.61
2:Bf:162:THR:HG21	3:Cd:119:THR:HG21	1.82	0.61
5:Bf:307:A1A0P:C38	5:Ce:304:A1A0P:C28	2.77	0.61
5:Bg:309:A1A0P:C38	5:Cg:304:A1A0P:C28	2.77	0.61
3:Ch:157:MET:HG2	3:Ch:232:ILE:HD11	1.81	0.61
5:Bi:308:A1A0P:C27	5:Ch:304:A1A0P:C27	2.79	0.61
1:Aa:52:LEU:HD23	1:Aa:69:GLY:HA3	1.81	0.61
1:Ab:237:MET:HG2	5:Ab:503:A1A0P:C21	2.30	0.61
5:Af:503:A1A0P:C27	5:Bf:305:A1A0P:C31	2.79	0.61
5:Bc:308:A1A0P:C45	3:Cb:229:PHE:CZ	2.84	0.61
3:Ce:241:ILE:HD11	5:Ce:302:A1A0P:C32	2.31	0.61
3:Ch:241:ILE:HD11	5:Ch:302:A1A0P:C32	2.29	0.61
5:Aa:503:A1A0P:C27	5:Bb:305:A1A0P:C31	2.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bi:308:A1A0P:C48	3:Ch:229:PHE:CE1	2.83	0.61
3:Cb:157:MET:HG2	3:Cb:232:ILE:HD11	1.81	0.61
1:Ab:91:VAL:HG21	1:Ab:128:LEU:HD21	1.83	0.61
5:Ai:503:A1A0P:C27	5:Bi:305:A1A0P:C31	2.79	0.61
5:Bb:307:A1A0P:C46	3:Cc:229:PHE:CZ	2.83	0.61
5:Bf:307:A1A0P:C27	5:Ce:304:A1A0P:C27	2.79	0.61
3:Ci:157:MET:HG2	3:Ci:232:ILE:HD11	1.81	0.61
2:Ba:246:TYR:CE2	5:Cc:304:A1A0P:C40	2.83	0.61
2:Bb:241:VAL:O	5:Cb:304:A1A0P:O5	2.18	0.61
2:Be:215:VAL:HG23	5:Be:302:A1A0P:C47	2.31	0.61
1:Ac:58:LYS:HD3	1:Ac:158:THR:CB	2.24	0.61
5:Ac:503:A1A0P:C27	5:Bc:305:A1A0P:C31	2.79	0.61
1:Af:234:LYS:HE3	5:Af:502:A1A0P:O18	2.01	0.61
5:Bd:309:A1A0P:C27	5:Cd:304:A1A0P:C27	2.79	0.61
5:Bg:309:A1A0P:C27	5:Cg:304:A1A0P:C27	2.79	0.61
3:Cc:157:MET:HG2	3:Cc:232:ILE:HD11	1.81	0.61
1:Ag:52:LEU:HD23	1:Ag:69:GLY:HA3	1.81	0.61
5:Ag:503:A1A0P:C27	5:Bh:305:A1A0P:C31	2.79	0.61
5:Bc:308:A1A0P:C27	5:Cb:304:A1A0P:C27	2.79	0.61
5:Be:308:A1A0P:C27	5:Cf:304:A1A0P:C27	2.79	0.61
3:Cc:237:MET:HA	5:Cc:302:A1A0P:C42	2.31	0.61
3:Ci:241:ILE:HD11	5:Ci:302:A1A0P:C45	2.31	0.61
1:Ac:91:VAL:HG21	1:Ac:128:LEU:HD21	1.83	0.61
1:Ae:91:VAL:HG21	1:Ae:128:LEU:HD21	1.83	0.60
1:Ah:91:VAL:HG21	1:Ah:128:LEU:HD21	1.83	0.60
5:Bb:307:A1A0P:C27	5:Cc:304:A1A0P:C27	2.79	0.60
2:Bi:219:MET:CG	5:Cg:303:A1A0P:C32	2.65	0.60
1:Af:58:LYS:HD3	1:Af:158:THR:CB	2.24	0.60
2:Bc:208:LEU:HD22	5:Ca:303:A1A0P:C34	2.31	0.60
1:Ac:234:LYS:HE3	5:Ac:502:A1A0P:O18	2.01	0.60
5:Ad:503:A1A0P:C27	5:Be:305:A1A0P:C31	2.79	0.60
1:Ag:91:VAL:HG21	1:Ag:128:LEU:HD21	1.83	0.60
5:Bi:308:A1A0P:C46	3:Ch:229:PHE:CZ	2.85	0.60
5:Cc:302:A1A0P:C43	5:Cc:302:A1A0P:C39	2.80	0.60
2:Bi:70:GLY:C	5:Bi:301:A1A0P:O16	2.45	0.60
3:Ce:161:LEU:HD22	5:Ce:305:A1A0P:C38	2.31	0.60
2:Bc:246:TYR:HH	5:Ca:304:A1A0P:C34	2.14	0.60
5:Bf:307:A1A0P:C46	3:Ce:229:PHE:CZ	2.83	0.60
5:Ch:302:A1A0P:O5	5:Ch:308:A1A0P:C17	2.49	0.60
1:Ag:237:MET:CG	5:Ag:503:A1A0P:C21	2.80	0.60
1:Ah:173:LEU:HD12	3:Cg:177:PRO:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cb:302:A1A0P:C43	5:Cb:302:A1A0P:C39	2.80	0.60
2:Ba:246:TYR:CZ	5:Cc:304:A1A0P:C41	2.84	0.60
5:Ci:302:A1A0P:O5	5:Ci:308:A1A0P:C17	2.50	0.60
1:Ab:231:THR:CG2	5:Ab:502:A1A0P:C34	2.79	0.60
1:Ad:91:VAL:HG21	1:Ad:128:LEU:HD21	1.83	0.60
5:Ae:503:A1A0P:C27	5:Bd:306:A1A0P:C31	2.79	0.60
5:Ba:309:A1A0P:C27	5:Ca:304:A1A0P:C27	2.79	0.60
2:Be:211:LEU:HD11	5:Be:302:A1A0P:C48	2.30	0.60
2:Bg:229:TRP:CZ3	5:Bg:309:A1A0P:C34	2.85	0.60
1:Aa:306:ASN:HB2	1:Aa:354:LEU:HD23	1.84	0.60
1:Ac:306:ASN:HB2	1:Ac:354:LEU:HD23	1.84	0.60
1:Af:237:MET:CG	5:Af:503:A1A0P:C21	2.80	0.60
3:Cc:161:LEU:HD22	5:Cc:305:A1A0P:C38	2.31	0.60
5:Ci:302:A1A0P:C43	5:Ci:302:A1A0P:C39	2.80	0.60
1:Ab:173:LEU:HD12	3:Ca:177:PRO:HB2	1.84	0.60
5:Af:502:A1A0P:N13	5:Af:502:A1A0P:P14	2.75	0.60
5:Bh:307:A1A0P:C27	5:Ci:304:A1A0P:C27	2.79	0.60
5:Cd:302:A1A0P:C43	5:Cd:302:A1A0P:C39	2.80	0.60
1:Aa:91:VAL:HG21	1:Aa:128:LEU:HD21	1.83	0.59
1:Ab:231:THR:CG2	5:Ab:502:A1A0P:C7	2.79	0.59
1:Ah:306:ASN:HB2	1:Ah:354:LEU:HD23	1.84	0.59
5:Ca:302:A1A0P:C43	5:Ca:302:A1A0P:C39	2.80	0.59
5:Ab:503:A1A0P:C27	5:Ba:306:A1A0P:C31	2.79	0.59
5:Ai:503:A1A0P:C19	3:Ch:144:LEU:HD13	2.32	0.59
2:Ba:246:TYR:HH	5:Cc:304:A1A0P:C7	2.14	0.59
5:Bc:308:A1A0P:C24	5:Cb:304:A1A0P:C27	2.79	0.59
2:Bh:103:THR:HB	5:Bh:304:A1A0P:C33	2.25	0.59
5:Bi:308:A1A0P:C24	5:Ch:304:A1A0P:C25	2.80	0.59
3:Ci:161:LEU:HD22	5:Ci:305:A1A0P:C38	2.32	0.59
5:Aa:502:A1A0P:N13	5:Aa:502:A1A0P:P14	2.75	0.59
1:Ai:300:MET:HE2	1:Ai:302:LEU:HD21	1.85	0.59
5:Ai:502:A1A0P:N13	5:Ai:502:A1A0P:P14	2.75	0.59
2:Bf:215:VAL:HG23	5:Bf:302:A1A0P:C47	2.32	0.59
5:Bh:307:A1A0P:C24	5:Ci:304:A1A0P:C27	2.80	0.59
3:Cc:241:ILE:CG1	5:Cc:302:A1A0P:C43	2.80	0.59
5:Ch:302:A1A0P:C43	5:Ch:302:A1A0P:C39	2.80	0.59
1:Ae:300:MET:HE2	1:Ae:302:LEU:HD21	1.85	0.59
5:Ah:503:A1A0P:C27	5:Bg:306:A1A0P:C31	2.79	0.59
1:Ai:91:VAL:HG21	1:Ai:128:LEU:HD21	1.83	0.59
5:Bb:307:A1A0P:C24	5:Cc:304:A1A0P:C27	2.80	0.59
5:Bc:308:A1A0P:C24	5:Cb:304:A1A0P:C25	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:229:TRP:CH2	5:Be:308:A1A0P:C34	2.85	0.59
5:Cd:302:A1A0P:O5	5:Cd:308:A1A0P:C17	2.49	0.59
5:Cf:302:A1A0P:C43	5:Cf:302:A1A0P:C39	2.80	0.59
5:Ac:502:A1A0P:N13	5:Ac:502:A1A0P:P14	2.75	0.59
1:Ae:173:LEU:HD12	3:Cd:177:PRO:HB2	1.84	0.59
1:Af:91:VAL:HG21	1:Af:128:LEU:HD21	1.83	0.59
5:Ba:309:A1A0P:C24	5:Ca:304:A1A0P:C27	2.79	0.59
5:Bd:309:A1A0P:C24	5:Cd:304:A1A0P:C27	2.79	0.59
5:Ab:502:A1A0P:N13	5:Ab:502:A1A0P:P14	2.75	0.59
2:Bg:241:VAL:O	5:Ci:304:A1A0P:O5	2.19	0.59
3:Ca:107:GLU:O	3:Ca:111:ARG:HG2	2.03	0.59
3:Cc:237:MET:HG3	5:Cc:302:A1A0P:C42	2.15	0.59
3:Cd:237:MET:HA	5:Cd:302:A1A0P:C42	2.32	0.59
3:Ce:237:MET:HA	5:Ce:302:A1A0P:C42	2.32	0.59
5:Cg:302:A1A0P:C43	5:Cg:302:A1A0P:C39	2.80	0.59
3:Ch:34:PHE:HA	5:Ch:307:A1A0P:C48	2.31	0.59
1:Ai:306:ASN:HB2	1:Ai:354:LEU:HD23	1.84	0.59
5:Bd:309:A1A0P:C19	5:Cd:304:A1A0P:C19	2.75	0.59
5:Bf:307:A1A0P:C24	5:Ce:304:A1A0P:C27	2.80	0.59
2:Bh:229:TRP:HZ3	5:Bh:307:A1A0P:C34	2.14	0.59
3:Cb:107:GLU:O	3:Cb:111:ARG:HG2	2.03	0.59
5:Cb:302:A1A0P:O5	5:Cb:308:A1A0P:C17	2.49	0.59
5:Ce:302:A1A0P:C43	5:Ce:302:A1A0P:C39	2.80	0.59
1:Aa:173:LEU:HD12	3:Cc:177:PRO:HB2	1.85	0.59
2:Bd:100:GLU:HG3	5:Bd:307:A1A0P:C33	2.33	0.59
3:Cc:107:GLU:O	3:Cc:111:ARG:HG2	2.03	0.59
3:Ce:61:TRP:HH2	3:Ce:204:ILE:HG22	1.68	0.59
5:Cf:302:A1A0P:O5	5:Cf:308:A1A0P:C17	2.49	0.59
1:Ad:173:LEU:HD12	3:Cf:177:PRO:HB2	1.85	0.59
5:Bf:307:A1A0P:C24	5:Ce:304:A1A0P:C25	2.80	0.59
3:Cd:237:MET:HB2	5:Cd:308:A1A0P:C44	2.33	0.59
5:Ce:302:A1A0P:O5	5:Ce:308:A1A0P:C17	2.49	0.59
3:Ci:107:GLU:O	3:Ci:111:ARG:HG2	2.03	0.59
1:Ac:300:MET:HE2	1:Ac:302:LEU:HD21	1.85	0.59
1:Ae:237:MET:CG	5:Ae:503:A1A0P:C21	2.80	0.59
1:Ac:90:ASN:OD1	1:Ac:100:ARG:NH2	2.36	0.58
1:Af:90:ASN:OD1	1:Af:100:ARG:NH2	2.36	0.58
1:Af:300:MET:HE2	1:Af:302:LEU:HD21	1.85	0.58
5:Bd:309:A1A0P:C46	3:Cd:229:PHE:CZ	2.85	0.58
5:Bg:309:A1A0P:C24	5:Cg:304:A1A0P:C27	2.80	0.58
3:Cc:61:TRP:HH2	3:Cc:204:ILE:HG22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cf:107:GLU:O	3:Cf:111:ARG:HG2	2.03	0.58
3:Cg:61:TRP:HH2	3:Cg:204:ILE:HG22	1.68	0.58
1:Aa:94:PRO:HB2	2:Ba:74:TRP:HZ3	1.68	0.58
1:Ad:306:ASN:HB2	1:Ad:354:LEU:HD23	1.84	0.58
5:Ae:502:A1A0P:N13	5:Ae:502:A1A0P:P14	2.75	0.58
1:Ag:296:ARG:HB3	1:Ag:296:ARG:HH11	1.69	0.58
1:Ag:306:ASN:HB2	1:Ag:354:LEU:HD23	1.84	0.58
5:Cc:302:A1A0P:O5	5:Cc:308:A1A0P:C17	2.50	0.58
5:Ad:502:A1A0P:N13	5:Ad:502:A1A0P:P14	2.75	0.58
1:Ae:306:ASN:HB2	1:Ae:354:LEU:HD23	1.84	0.58
1:Ag:234:LYS:HE3	5:Ag:502:A1A0P:O18	2.01	0.58
3:Cd:107:GLU:O	3:Cd:111:ARG:HG2	2.03	0.58
3:Ch:61:TRP:HH2	3:Ch:204:ILE:HG22	1.68	0.58
3:Ch:61:TRP:HH2	3:Ch:204:ILE:HG22	1.68	0.58
1:Ad:100:ARG:HA	1:Ad:128:LEU:HD23	1.86	0.58
1:Ag:90:ASN:OD1	1:Ag:100:ARG:NH2	2.36	0.58
1:Ag:300:MET:HE2	1:Ag:302:LEU:HD21	1.85	0.58
5:Ah:502:A1A0P:N13	5:Ah:502:A1A0P:P14	2.75	0.58
5:Bc:308:A1A0P:C45	3:Cb:229:PHE:HE2	2.16	0.58
5:Be:308:A1A0P:C45	3:Cf:229:PHE:CZ	2.86	0.58
3:Ca:61:TRP:HH2	3:Ca:204:ILE:HG22	1.68	0.58
3:Cd:61:TRP:HH2	3:Cd:204:ILE:HG22	1.68	0.58
3:Ce:107:GLU:O	3:Ce:111:ARG:HG2	2.03	0.58
3:Cg:107:GLU:O	3:Cg:111:ARG:HG2	2.03	0.58
1:Aa:90:ASN:OD1	1:Aa:100:ARG:NH2	2.37	0.58
1:Aa:100:ARG:HA	1:Aa:128:LEU:HD23	1.86	0.58
1:Aa:300:MET:HE2	1:Aa:302:LEU:HD21	1.85	0.58
1:Ac:173:LEU:HD12	3:Cb:177:PRO:HB2	1.86	0.58
1:Af:306:ASN:HB2	1:Af:354:LEU:HD23	1.84	0.58
1:Ah:90:ASN:OD1	1:Ah:100:ARG:NH2	2.37	0.58
1:Ai:240:LEU:HD21	5:Bi:305:A1A0P:C29	2.34	0.58
5:Ca:302:A1A0P:O5	5:Ca:308:A1A0P:C17	2.49	0.58
3:Cb:61:TRP:HH2	3:Cb:204:ILE:HG22	1.68	0.58
3:Ch:237:MET:HA	5:Ch:302:A1A0P:C42	2.32	0.58
1:Ab:306:ASN:HB2	1:Ab:354:LEU:HD23	1.84	0.58
1:Ae:58:LYS:HD3	1:Ae:158:THR:CB	2.24	0.58
2:Bb:229:TRP:HZ3	5:Bb:307:A1A0P:C34	2.15	0.58
2:Bc:215:VAL:HG23	5:Bc:302:A1A0P:C47	2.33	0.58
5:Be:308:A1A0P:C45	3:Cf:229:PHE:HE2	2.16	0.58
2:Bi:50:TRP:CE2	5:Bi:304:A1A0P:C39	2.86	0.58
3:Ch:107:GLU:O	3:Ch:111:ARG:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:300:MET:HE2	1:Ab:302:LEU:HD21	1.85	0.58
1:Ai:90:ASN:OD1	1:Ai:100:ARG:NH2	2.36	0.58
2:Bc:208:LEU:HD13	5:Ca:303:A1A0P:C34	2.33	0.58
5:Bi:308:A1A0P:C48	3:Ch:233:LEU:HD11	2.32	0.58
1:Ad:58:LYS:HD3	1:Ad:158:THR:CB	2.24	0.58
1:Ag:173:LEU:HD12	3:Ci:177:PRO:HB2	1.85	0.58
1:Ah:300:MET:HE2	1:Ah:302:LEU:HD21	1.85	0.58
1:Ad:300:MET:HE2	1:Ad:302:LEU:HD21	1.85	0.58
1:Ae:90:ASN:OD1	1:Ae:100:ARG:NH2	2.37	0.58
1:Ai:100:ARG:HA	1:Ai:128:LEU:HD23	1.86	0.58
2:Bg:208:LEU:HD22	5:Ci:303:A1A0P:C34	2.33	0.58
5:Cg:302:A1A0P:O5	5:Cg:308:A1A0P:C17	2.50	0.58
3:Ci:240:PHE:CB	5:Ci:302:A1A0P:C41	2.70	0.58
1:Ab:90:ASN:OD1	1:Ab:100:ARG:NH2	2.36	0.58
1:Ab:100:ARG:HA	1:Ab:128:LEU:HD23	1.86	0.58
1:Ae:50:TYR:O	1:Ae:52:LEU:HG	2.04	0.58
1:Af:296:ARG:HB3	1:Af:296:ARG:HH11	1.68	0.58
5:Bb:307:A1A0P:C24	5:Cc:304:A1A0P:C25	2.80	0.58
3:Cb:237:MET:CA	5:Cb:302:A1A0P:C42	2.81	0.58
1:Aa:237:MET:CG	5:Aa:503:A1A0P:C21	2.82	0.57
1:Ab:81:VAL:HG13	1:Ab:147:GLY:HA3	1.86	0.57
1:Ac:50:TYR:O	1:Ac:52:LEU:HG	2.04	0.57
5:Ag:502:A1A0P:N13	5:Ag:502:A1A0P:P14	2.75	0.57
1:Ah:50:TYR:O	1:Ah:52:LEU:HG	2.04	0.57
1:Ah:100:ARG:HA	1:Ah:128:LEU:HD23	1.86	0.57
3:Cf:61:TRP:HH2	3:Cf:204:ILE:HG22	1.68	0.57
1:Aa:296:ARG:HB3	1:Aa:296:ARG:HH11	1.69	0.57
1:Ad:296:ARG:HB3	1:Ad:296:ARG:HH11	1.69	0.57
1:Ai:94:PRO:HB2	2:Bh:74:TRP:HZ3	1.69	0.57
2:Ba:215:VAL:HG23	5:Ba:303:A1A0P:C47	2.34	0.57
2:Be:208:LEU:HD22	5:Ce:303:A1A0P:C34	2.34	0.57
2:Bf:241:VAL:O	5:Cd:304:A1A0P:O5	2.22	0.57
2:Bi:71:VAL:HA	5:Bi:301:A1A0P:O15	2.04	0.57
1:Aa:81:VAL:HG13	1:Aa:147:GLY:HA3	1.86	0.57
1:Ag:100:ARG:HA	1:Ag:128:LEU:HD23	1.86	0.57
1:Ai:50:TYR:O	1:Ai:52:LEU:HG	2.04	0.57
5:Ba:309:A1A0P:C39	5:Ca:304:A1A0P:C27	2.82	0.57
1:Ab:50:TYR:O	1:Ab:52:LEU:HG	2.04	0.57
1:Ab:296:ARG:HB3	1:Ab:296:ARG:HH11	1.69	0.57
1:Ac:100:ARG:HA	1:Ac:128:LEU:HD23	1.86	0.57
5:Ba:309:A1A0P:C45	3:Ca:229:PHE:HE2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bg:309:A1A0P:C39	5:Cg:304:A1A0P:C27	2.82	0.57
3:Ca:237:MET:CA	5:Ca:302:A1A0P:C42	2.82	0.57
1:Aa:50:TYR:O	1:Aa:52:LEU:HG	2.04	0.57
1:Ad:90:ASN:OD1	1:Ad:100:ARG:NH2	2.37	0.57
1:Af:50:TYR:O	1:Af:52:LEU:HG	2.04	0.57
1:Af:100:ARG:HA	1:Af:128:LEU:HD23	1.86	0.57
2:Be:241:VAL:O	5:Ce:304:A1A0P:O5	2.20	0.57
5:Bh:307:A1A0P:C24	5:Ci:304:A1A0P:C25	2.80	0.57
1:Ac:94:PRO:HB2	2:Bb:74:TRP:HZ3	1.70	0.57
1:Ac:296:ARG:HB3	1:Ac:296:ARG:HH11	1.68	0.57
1:Ad:94:PRO:HB2	2:Bd:74:TRP:HZ3	1.68	0.57
1:Ae:100:ARG:HA	1:Ae:128:LEU:HD23	1.86	0.57
1:Ae:296:ARG:HB3	1:Ae:296:ARG:HH11	1.68	0.57
1:Ae:306:ASN:HB3	1:Ae:356:PRO:HA	1.87	0.57
1:Ah:81:VAL:HG13	1:Ah:147:GLY:HA3	1.86	0.57
5:Be:308:A1A0P:C24	5:Cf:304:A1A0P:C25	2.80	0.57
2:Bg:213:LEU:HD22	2:Bg:258:VAL:HA	1.87	0.57
3:Cc:240:PHE:CG	5:Cc:308:A1A0P:C38	2.88	0.57
1:Ae:81:VAL:HG13	1:Ae:147:GLY:HA3	1.86	0.57
1:Ag:94:PRO:HB2	2:Bg:74:TRP:HZ3	1.68	0.57
5:Be:308:A1A0P:C24	5:Cf:304:A1A0P:C27	2.80	0.57
5:Bh:307:A1A0P:C39	5:Ci:304:A1A0P:C27	2.82	0.57
5:Bi:308:A1A0P:C24	5:Ch:304:A1A0P:C27	2.79	0.57
3:Ch:46:ILE:HA	3:Ch:49:MET:HE3	1.87	0.57
5:Bc:308:A1A0P:C39	5:Cb:304:A1A0P:C27	2.82	0.57
2:Be:213:LEU:HD22	2:Be:258:VAL:HA	1.87	0.57
3:Cd:240:PHE:CG	5:Cd:308:A1A0P:C38	2.87	0.57
5:Ac:503:A1A0P:C19	3:Cb:144:LEU:HD13	2.34	0.57
5:Bd:309:A1A0P:C39	5:Cd:304:A1A0P:C27	2.82	0.57
5:Bi:308:A1A0P:C39	5:Ch:304:A1A0P:C27	2.82	0.57
1:Ad:81:VAL:HG13	1:Ad:147:GLY:HA3	1.86	0.57
1:Af:173:LEU:HD12	3:Ce:177:PRO:HB2	1.86	0.57
1:Ai:58:LYS:HD3	1:Ai:158:THR:CB	2.24	0.57
1:Ai:173:LEU:HD12	3:Ch:177:PRO:HB2	1.86	0.57
2:Bf:229:TRP:HZ3	5:Bf:307:A1A0P:C34	2.17	0.57
5:Bf:307:A1A0P:C39	5:Ce:304:A1A0P:C27	2.82	0.57
2:Bh:215:VAL:HG23	5:Bh:302:A1A0P:C47	2.35	0.57
2:Bh:241:VAL:O	5:Ch:304:A1A0P:O5	2.22	0.57
3:Ca:221:PRO:CG	5:Ca:305:A1A0P:O3	2.44	0.57
1:Af:94:PRO:HB2	2:Be:74:TRP:HZ3	1.70	0.56
1:Ah:58:LYS:HD3	1:Ah:158:THR:CB	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:306:ASN:HB3	1:Ah:356:PRO:HA	1.87	0.56
1:Ai:81:VAL:HG13	1:Ai:147:GLY:HA3	1.86	0.56
1:Ai:296:ARG:HB3	1:Ai:296:ARG:HH11	1.68	0.56
2:Bc:213:LEU:HD22	2:Bc:258:VAL:HA	1.87	0.56
2:Bd:213:LEU:HD22	2:Bd:258:VAL:HA	1.87	0.56
2:Be:96:GLU:HA	5:Be:306:A1A0P:C29	2.35	0.56
2:Bi:243:PRO:HD3	5:Cg:304:A1A0P:C4	2.35	0.56
3:Cb:46:ILE:HA	3:Cb:49:MET:HE3	1.87	0.56
1:Ab:173:LEU:HD21	3:Ca:179:GLU:HB2	1.87	0.56
1:Ac:306:ASN:HB3	1:Ac:356:PRO:HA	1.87	0.56
1:Ae:94:PRO:HB2	2:Bf:74:TRP:HZ3	1.71	0.56
5:Bd:309:A1A0P:C48	3:Cd:229:PHE:CE1	2.88	0.56
5:Be:308:A1A0P:C39	5:Cf:304:A1A0P:C27	2.82	0.56
2:Bg:211:LEU:HD13	5:Bg:303:A1A0P:C48	2.34	0.56
1:Ad:50:TYR:O	1:Ad:52:LEU:HG	2.04	0.56
1:Ah:296:ARG:HB3	1:Ah:296:ARG:HH11	1.69	0.56
2:Ba:213:LEU:HD22	2:Ba:258:VAL:HA	1.87	0.56
2:Ba:229:TRP:HZ3	5:Ba:309:A1A0P:C34	2.17	0.56
5:Bb:307:A1A0P:C39	5:Cc:304:A1A0P:C27	2.82	0.56
2:Bd:219:MET:CG	5:Cf:303:A1A0P:C32	2.69	0.56
3:Ce:46:ILE:HA	3:Ce:49:MET:HE3	1.87	0.56
3:Cf:46:ILE:HA	3:Cf:49:MET:HE3	1.87	0.56
3:Cf:241:ILE:HD11	5:Cf:302:A1A0P:C32	2.35	0.56
3:Ch:105:LEU:HD13	5:Ch:306:A1A0P:C32	2.35	0.56
1:Ab:306:ASN:HB3	1:Ab:356:PRO:HA	1.87	0.56
1:Ag:50:TYR:O	1:Ag:52:LEU:HG	2.04	0.56
5:Bg:308:A1A0P:O18	5:Bi:307:A1A0P:C4	2.54	0.56
3:Ch:237:MET:O	5:Ch:302:A1A0P:C41	2.52	0.56
2:Bf:213:LEU:HD22	2:Bf:258:VAL:HA	1.87	0.56
2:Bg:229:TRP:CH2	5:Bg:309:A1A0P:C34	2.89	0.56
3:Cd:46:ILE:HA	3:Cd:49:MET:HE3	1.87	0.56
1:Ag:81:VAL:HG13	1:Ag:147:GLY:HA3	1.86	0.56
5:Ba:308:A1A0P:O18	5:Bc:307:A1A0P:C4	2.54	0.56
2:Bb:213:LEU:HD22	2:Bb:258:VAL:HA	1.87	0.56
3:Cd:54:ASP:HB3	3:Cd:61:TRP:CZ3	2.41	0.56
3:Ce:54:ASP:HB3	3:Ce:61:TRP:CZ3	2.41	0.56
3:Ci:54:ASP:HB3	3:Ci:61:TRP:CZ3	2.41	0.56
1:Ac:81:VAL:HG13	1:Ac:147:GLY:HA3	1.87	0.56
2:Bc:246:TYR:OH	5:Ca:304:A1A0P:C34	2.54	0.56
2:Bg:96:GLU:HA	5:Bg:307:A1A0P:C29	2.34	0.56
3:Ca:241:ILE:CG1	5:Ca:302:A1A0P:C43	2.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cc:54:ASP:HB3	3:Cc:61:TRP:CZ3	2.41	0.56
1:Aa:234:LYS:HE3	5:Aa:502:A1A0P:O18	2.06	0.56
1:Aa:306:ASN:HB3	1:Aa:356:PRO:HA	1.87	0.56
1:Af:386:ARG:HA	1:Af:408:PRO:HA	1.88	0.56
5:Ba:309:A1A0P:C46	3:Ca:229:PHE:CZ	2.89	0.56
5:Bb:307:A1A0P:C19	5:Cc:304:A1A0P:C19	2.75	0.56
2:Bh:241:VAL:C	5:Ch:304:A1A0P:O5	2.48	0.56
3:Cf:54:ASP:HB3	3:Cf:61:TRP:CZ3	2.41	0.56
3:Ci:46:ILE:HA	3:Ci:49:MET:HE3	1.87	0.56
1:Ac:214:PRO:HG3	2:Bb:278:LEU:HD21	1.88	0.56
1:Ad:387:PHE:CE1	1:Ad:407:ALA:HB3	2.41	0.56
5:Bg:309:A1A0P:C24	5:Cg:304:A1A0P:C25	2.80	0.56
3:Ca:46:ILE:HA	3:Ca:49:MET:HE3	1.87	0.56
3:Ch:54:ASP:HB3	3:Ch:61:TRP:CZ3	2.41	0.56
1:Aa:387:PHE:CE1	1:Aa:407:ALA:HB3	2.41	0.56
5:Ae:503:A1A0P:C19	3:Cd:144:LEU:HD13	2.36	0.56
1:Af:231:THR:HG21	5:Af:502:A1A0P:C7	2.36	0.56
1:Ai:306:ASN:HB3	1:Ai:356:PRO:HA	1.87	0.56
1:Ai:386:ARG:HA	1:Ai:408:PRO:HA	1.88	0.56
5:Bd:308:A1A0P:C4	5:Be:307:A1A0P:O18	2.54	0.56
3:Cg:54:ASP:HB3	3:Cg:61:TRP:CZ3	2.41	0.56
3:Ch:237:MET:CG	5:Ch:302:A1A0P:C42	2.80	0.56
1:Ab:94:PRO:HB2	2:Bc:74:TRP:HZ3	1.71	0.55
1:Ac:280:PRO:C	1:Ac:282:VAL:H	2.14	0.55
1:Ac:387:PHE:CE1	1:Ac:407:ALA:HB3	2.41	0.55
1:Ag:386:ARG:HA	1:Ag:408:PRO:HA	1.88	0.55
1:Ah:173:LEU:HD21	3:Cg:179:GLU:HB2	1.87	0.55
1:Ai:280:PRO:C	1:Ai:282:VAL:H	2.15	0.55
2:Bc:50:TRP:CE2	5:Bc:304:A1A0P:C39	2.88	0.55
5:Bd:309:A1A0P:C24	5:Cd:304:A1A0P:C25	2.80	0.55
5:Bh:308:A1A0P:C4	5:Bi:307:A1A0P:O18	2.55	0.55
3:Ca:54:ASP:HB3	3:Ca:61:TRP:CZ3	2.41	0.55
1:Ag:280:PRO:C	1:Ag:282:VAL:H	2.15	0.55
1:Ah:94:PRO:HB2	2:Bi:74:TRP:HZ3	1.71	0.55
1:Ah:214:PRO:HG3	2:Bi:278:LEU:HD21	1.89	0.55
5:Bg:309:A1A0P:C19	5:Cg:304:A1A0P:C19	2.75	0.55
3:Cb:56:ASP:OD2	3:Cb:111:ARG:NH2	2.36	0.55
3:Cg:46:ILE:HA	3:Cg:49:MET:HE3	1.87	0.55
1:Ad:306:ASN:HB3	1:Ad:356:PRO:HA	1.87	0.55
1:Ae:280:PRO:C	1:Ae:282:VAL:H	2.14	0.55
1:Ag:387:PHE:CE1	1:Ag:407:ALA:HB3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bd:308:A1A0P:O18	5:Bf:308:A1A0P:C4	2.55	0.55
1:Ag:58:LYS:HD3	1:Ag:158:THR:CB	2.24	0.55
1:Ag:306:ASN:HB3	1:Ag:356:PRO:HA	1.87	0.55
1:Ah:386:ARG:HA	1:Ah:408:PRO:HA	1.88	0.55
1:Ai:214:PRO:HG3	2:Bh:278:LEU:HD21	1.88	0.55
2:Ba:241:VAL:C	5:Cc:304:A1A0P:O5	2.49	0.55
5:Bb:309:A1A0P:C4	5:Bc:307:A1A0P:O18	2.55	0.55
2:Bh:213:LEU:HD22	2:Bh:258:VAL:HA	1.87	0.55
2:Bi:213:LEU:HD22	2:Bi:258:VAL:HA	1.87	0.55
3:Cb:221:PRO:CG	5:Cb:305:A1A0P:O3	2.49	0.55
3:Cf:237:MET:CA	5:Cf:302:A1A0P:C42	2.83	0.55
1:Ab:214:PRO:HG3	2:Bc:278:LEU:HD21	1.89	0.55
1:Ae:173:LEU:HD21	3:Cd:179:GLU:HB2	1.87	0.55
1:Ag:231:THR:HG21	5:Ag:502:A1A0P:C7	2.36	0.55
5:Ba:309:A1A0P:C19	5:Ca:304:A1A0P:C19	2.75	0.55
2:Bb:241:VAL:C	5:Cb:304:A1A0P:O5	2.49	0.55
2:Bd:215:VAL:HG23	5:Bd:303:A1A0P:C47	2.36	0.55
5:Bf:307:A1A0P:C19	5:Ce:304:A1A0P:C19	2.75	0.55
1:Aa:214:PRO:HG3	2:Ba:278:LEU:HD21	1.89	0.55
1:Af:214:PRO:HG3	2:Be:278:LEU:HD21	1.88	0.55
1:Af:387:PHE:CE1	1:Af:407:ALA:HB3	2.41	0.55
2:Bf:241:VAL:C	5:Cd:304:A1A0P:O5	2.50	0.55
3:Cg:221:PRO:HA	5:Cg:305:A1A0P:C7	2.35	0.55
1:Ad:280:PRO:C	1:Ad:282:VAL:H	2.15	0.55
1:Af:173:LEU:HD21	3:Ce:179:GLU:HB2	1.89	0.55
1:Af:280:PRO:C	1:Af:282:VAL:H	2.14	0.55
1:Ah:280:PRO:C	1:Ah:282:VAL:H	2.14	0.55
2:Bc:256:LEU:O	2:Bc:259:MET:HG3	2.07	0.55
2:Be:234:TRP:CD1	5:Be:308:A1A0P:C7	2.90	0.55
5:Bh:307:A1A0P:C19	5:Ci:304:A1A0P:C19	2.75	0.55
2:Bi:246:TYR:OH	5:Cg:304:A1A0P:C34	2.55	0.55
3:Cd:105:LEU:HD13	5:Cd:306:A1A0P:C32	2.37	0.55
1:Ab:280:PRO:C	1:Ab:282:VAL:H	2.14	0.55
1:Ac:386:ARG:HA	1:Ac:408:PRO:HA	1.88	0.55
1:Af:81:VAL:HG13	1:Af:147:GLY:HA3	1.86	0.55
1:Ai:173:LEU:HD21	3:Ch:179:GLU:HB2	1.89	0.55
1:Ai:387:PHE:CE1	1:Ai:407:ALA:HB3	2.41	0.55
5:Ba:309:A1A0P:C24	5:Ca:304:A1A0P:C25	2.80	0.55
2:Be:208:LEU:HD13	5:Ce:303:A1A0P:C34	2.36	0.55
2:Bg:234:TRP:CD1	5:Bg:309:A1A0P:C7	2.89	0.55
1:Aa:386:ARG:HA	1:Aa:408:PRO:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:231:THR:HG21	5:Ac:502:A1A0P:C7	2.36	0.55
1:Ad:214:PRO:HG3	2:Bd:278:LEU:HD21	1.89	0.55
1:Ah:387:PHE:CE1	1:Ah:407:ALA:HB3	2.41	0.55
1:Ai:234:LYS:CE	5:Ai:502:A1A0P:O18	2.54	0.55
1:Aa:173:LEU:HD21	3:Cc:179:GLU:HB2	1.89	0.55
1:Ab:386:ARG:HA	1:Ab:408:PRO:HA	1.88	0.55
1:Ac:173:LEU:HD21	3:Cb:179:GLU:HB2	1.89	0.55
1:Ad:173:LEU:HD21	3:Cf:179:GLU:HB2	1.89	0.55
1:Ae:214:PRO:HG3	2:Bf:278:LEU:HD21	1.89	0.55
2:Bg:256:LEU:O	2:Bg:259:MET:HG3	2.07	0.55
3:Cd:237:MET:CG	5:Cd:302:A1A0P:C42	2.82	0.55
3:Ci:34:PHE:HE2	5:Ci:307:A1A0P:C31	2.19	0.55
1:Aa:280:PRO:C	1:Aa:282:VAL:H	2.14	0.54
1:Ab:387:PHE:CE1	1:Ab:407:ALA:HB3	2.41	0.54
1:Ae:387:PHE:CE1	1:Ae:407:ALA:HB3	2.41	0.54
1:Af:245:LEU:HG	1:Af:249:MET:HE2	1.89	0.54
2:Ba:234:TRP:CD1	5:Ba:309:A1A0P:C7	2.89	0.54
2:Bf:234:TRP:CD1	5:Bf:307:A1A0P:C7	2.90	0.54
2:Bh:96:GLU:HA	5:Bh:306:A1A0P:C29	2.37	0.54
3:Cb:54:ASP:HB3	3:Cb:61:TRP:CZ3	2.41	0.54
3:Cc:46:ILE:HA	3:Cc:49:MET:HE3	1.87	0.54
1:Ag:173:LEU:HD21	3:Ci:179:GLU:HB2	1.89	0.54
5:Bg:309:A1A0P:C45	3:Cg:229:PHE:CZ	2.90	0.54
1:Af:306:ASN:HB3	1:Af:356:PRO:HA	1.87	0.54
2:Ba:256:LEU:O	2:Ba:259:MET:HG3	2.07	0.54
2:Bd:101:ILE:HG23	5:Bd:306:A1A0P:C45	2.38	0.54
3:Cf:221:PRO:CG	5:Cf:305:A1A0P:O3	2.49	0.54
1:Ah:60:LYS:CG	1:Ah:61:ILE:N	2.69	0.54
5:Bc:308:A1A0P:C46	3:Cb:229:PHE:CZ	2.91	0.54
2:Be:256:LEU:O	2:Be:259:MET:HG3	2.07	0.54
5:Be:307:A1A0P:C4	5:Bf:308:A1A0P:O18	2.56	0.54
2:Bf:96:GLU:HA	5:Bf:306:A1A0P:C29	2.37	0.54
2:Bi:246:TYR:HH	5:Cg:304:A1A0P:C34	2.21	0.54
1:Ac:162:SER:HG	1:Ac:164:SER:HG	1.55	0.54
1:Ai:245:LEU:HG	1:Ai:249:MET:HE2	1.90	0.54
2:Bf:256:LEU:O	2:Bf:259:MET:HG3	2.07	0.54
2:Bi:256:LEU:O	2:Bi:259:MET:HG3	2.07	0.54
2:Bb:246:TYR:OH	5:Cb:304:A1A0P:C34	2.55	0.54
2:Bh:219:MET:CG	5:Ch:303:A1A0P:C32	2.74	0.54
3:Ci:241:ILE:HD11	5:Ci:302:A1A0P:C30	2.36	0.54
1:Ag:214:PRO:HG3	2:Bg:278:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ba:308:A1A0P:C4	5:Bb:309:A1A0P:O18	2.56	0.54
2:Bb:256:LEU:O	2:Bb:259:MET:HG3	2.07	0.54
3:Ce:241:ILE:CG1	5:Ce:302:A1A0P:C43	2.86	0.54
1:Ae:386:ARG:HA	1:Ae:408:PRO:HA	1.88	0.54
3:Ca:237:MET:HA	5:Ca:302:A1A0P:C42	2.37	0.54
3:Cc:56:ASP:OD2	3:Cc:111:ARG:NH2	2.36	0.54
3:Cd:56:ASP:OD2	3:Cd:111:ARG:NH2	2.36	0.54
1:Ad:102:GLU:HG2	1:Ad:127:VAL:HB	1.90	0.54
1:Ag:102:GLU:HG2	1:Ag:127:VAL:HB	1.90	0.54
2:Bd:256:LEU:O	2:Bd:259:MET:HG3	2.07	0.54
2:Bi:219:MET:HB2	5:Cg:303:A1A0P:C33	2.38	0.54
1:Ad:386:ARG:HA	1:Ad:408:PRO:HA	1.88	0.54
5:Af:503:A1A0P:C19	3:Ce:144:LEU:HD13	2.37	0.54
2:Bi:229:TRP:HH2	5:Bi:308:A1A0P:C34	2.21	0.54
1:Aa:245:LEU:HG	1:Aa:249:MET:HE2	1.90	0.53
1:Ae:245:LEU:HG	1:Ae:249:MET:HE2	1.90	0.53
1:Ai:231:THR:HG23	5:Ai:502:A1A0P:C4	2.28	0.53
2:Bb:236:MET:HE2	2:Bb:236:MET:HA	1.90	0.53
2:Bi:103:THR:OG1	5:Bi:304:A1A0P:C31	2.55	0.53
1:Ac:245:LEU:HG	1:Ac:249:MET:HE2	1.89	0.53
2:Bd:208:LEU:HD22	5:Cf:303:A1A0P:C34	2.38	0.53
3:Cc:241:ILE:HD11	5:Cc:302:A1A0P:C30	2.38	0.53
2:Bh:101:ILE:HG23	5:Bh:305:A1A0P:C45	2.39	0.53
2:Bh:234:TRP:CD1	5:Bh:307:A1A0P:C7	2.91	0.53
2:Bh:256:LEU:O	2:Bh:259:MET:HG3	2.07	0.53
3:Cf:240:PHE:CB	5:Cf:302:A1A0P:C41	2.72	0.53
1:Ai:125:ARG:NH1	6:Ai:607:HOH:O	2.42	0.53
2:Ba:246:TYR:OH	5:Cc:304:A1A0P:C34	2.57	0.53
5:Bg:308:A1A0P:C4	5:Bh:308:A1A0P:O18	2.56	0.53
1:Ab:245:LEU:HG	1:Ab:249:MET:HE2	1.90	0.53
1:Ae:102:GLU:HG2	1:Ae:127:VAL:HB	1.90	0.53
2:Bb:215:VAL:HG23	5:Bb:302:A1A0P:C47	2.38	0.53
2:Bc:211:LEU:HD11	5:Bc:302:A1A0P:C48	2.34	0.53
2:Bd:243:PRO:HD3	5:Cf:304:A1A0P:C4	2.39	0.53
2:Bh:219:MET:HB2	5:Ch:303:A1A0P:C33	2.39	0.53
2:Bi:215:VAL:HG23	5:Bi:302:A1A0P:C47	2.38	0.53
1:Ab:237:MET:CG	5:Ab:503:A1A0P:C21	2.87	0.53
2:Bc:229:TRP:HZ3	5:Bc:308:A1A0P:C34	2.21	0.53
2:Bd:246:TYR:OH	5:Cf:304:A1A0P:C34	2.56	0.53
5:Bi:308:A1A0P:C19	5:Ch:304:A1A0P:C19	2.75	0.53
3:Ch:56:ASP:OD2	3:Ch:111:ARG:NH2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:125:ARG:NH1	6:Af:606:HOH:O	2.42	0.53
2:Ba:103:THR:HB	5:Ba:305:A1A0P:C33	2.33	0.53
2:Ba:246:TYR:HH	5:Cc:304:A1A0P:C34	2.22	0.53
2:Bh:236:MET:HE2	2:Bh:236:MET:HA	1.90	0.53
2:Bi:48:LYS:HE2	5:Cg:307:A1A0P:O16	2.07	0.53
3:Cg:241:ILE:HD11	5:Cg:302:A1A0P:C32	2.39	0.53
5:Ag:503:A1A0P:C19	3:Ci:144:LEU:HD13	2.39	0.53
2:Bc:236:MET:HE2	2:Bc:236:MET:HA	1.91	0.53
2:Bd:241:VAL:O	5:Cf:304:A1A0P:O5	2.27	0.53
2:Bh:242:ALA:N	5:Ch:304:A1A0P:O5	2.42	0.53
2:Bi:106:ILE:HG22	5:Bi:304:A1A0P:C25	2.38	0.53
2:Bi:236:MET:HA	2:Bi:236:MET:HE2	1.91	0.53
3:Cc:221:PRO:CG	5:Cc:305:A1A0P:O3	2.50	0.53
1:Ag:231:THR:OG1	5:Ag:502:A1A0P:O5	2.25	0.53
1:Ah:245:LEU:HG	1:Ah:249:MET:HE2	1.90	0.53
2:Bc:241:VAL:C	5:Ca:304:A1A0P:O5	2.52	0.53
5:Bg:309:A1A0P:C45	3:Cg:229:PHE:HE2	2.20	0.53
3:Cb:237:MET:HA	5:Cb:302:A1A0P:C42	2.39	0.53
1:Af:102:GLU:HG2	1:Af:127:VAL:HB	1.90	0.52
2:Bb:101:ILE:HG23	5:Bb:305:A1A0P:C45	2.39	0.52
3:Cd:161:LEU:HD22	5:Cd:305:A1A0P:C38	2.39	0.52
3:Ce:34:PHE:HE2	5:Ce:307:A1A0P:C31	2.22	0.52
1:Aa:102:GLU:HG2	1:Aa:127:VAL:HB	1.90	0.52
1:Ab:102:GLU:HG2	1:Ab:127:VAL:HB	1.90	0.52
1:Ae:125:ARG:NH1	6:Ae:607:HOH:O	2.42	0.52
1:Ag:245:LEU:HG	1:Ag:249:MET:HE2	1.90	0.52
3:Ce:240:PHE:CB	5:Ce:302:A1A0P:C41	2.71	0.52
1:Ad:125:ARG:NH1	6:Ad:607:HOH:O	2.42	0.52
1:Ad:245:LEU:HG	1:Ad:249:MET:HE2	1.90	0.52
2:Bf:236:MET:HA	2:Bf:236:MET:HE2	1.91	0.52
3:Cb:240:PHE:CG	5:Cb:308:A1A0P:C38	2.92	0.52
1:Aa:125:ARG:NH1	6:Aa:607:HOH:O	2.42	0.52
1:Ac:125:ARG:NH1	6:Ac:607:HOH:O	2.42	0.52
1:Ai:162:SER:HG	1:Ai:164:SER:HG	1.57	0.52
2:Ba:236:MET:HE2	2:Ba:236:MET:HA	1.91	0.52
2:Bd:70:GLY:C	5:Bd:302:A1A0P:O16	2.53	0.52
2:Bd:219:MET:HB2	5:Cf:303:A1A0P:C33	2.39	0.52
2:Bd:236:MET:HE2	2:Bd:236:MET:HA	1.91	0.52
2:Bg:246:TYR:OH	5:Ci:304:A1A0P:C34	2.57	0.52
1:Ad:231:THR:HG21	5:Ad:502:A1A0P:C7	2.39	0.52
1:Ae:231:THR:CB	5:Ae:502:A1A0P:O5	2.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:208:ARG:NH1	6:Ai:608:HOH:O	2.42	0.52
5:Bg:309:A1A0P:C48	3:Cg:233:LEU:HD11	2.39	0.52
1:Ah:102:GLU:HG2	1:Ah:127:VAL:HB	1.90	0.52
2:Bi:246:TYR:HH	5:Cg:304:A1A0P:C7	2.21	0.52
3:Cc:157:MET:HA	3:Cc:228:ALA:HB1	1.92	0.52
3:Cf:157:MET:HA	3:Cf:228:ALA:HB1	1.92	0.52
1:Ab:125:ARG:NH1	6:Ab:607:HOH:O	2.42	0.52
5:Be:308:A1A0P:C46	3:Cf:229:PHE:CZ	2.93	0.52
5:Bh:307:A1A0P:C48	3:Ci:229:PHE:CE1	2.92	0.52
3:Ca:157:MET:HA	3:Ca:228:ALA:HB1	1.92	0.52
1:Ac:102:GLU:HG2	1:Ac:127:VAL:HB	1.90	0.52
1:Af:166:PHE:O	1:Af:167:ARG:HD2	2.10	0.52
1:Ai:166:PHE:O	1:Ai:167:ARG:HD2	2.10	0.52
2:Bi:211:LEU:HD11	5:Bi:302:A1A0P:C48	2.40	0.52
3:Cb:157:MET:HA	3:Cb:228:ALA:HB1	1.92	0.52
5:Aa:503:A1A0P:C19	3:Cc:144:LEU:HD13	2.40	0.52
1:Ai:102:GLU:HG2	1:Ai:127:VAL:HB	1.90	0.52
2:Bc:96:GLU:HA	5:Bc:306:A1A0P:C29	2.40	0.52
2:Be:236:MET:HE2	2:Be:236:MET:HA	1.91	0.52
2:Bg:208:LEU:HD13	5:Ci:303:A1A0P:C34	2.40	0.52
3:Cg:237:MET:HB2	5:Cg:308:A1A0P:C44	2.40	0.52
3:Ci:157:MET:HA	3:Ci:228:ALA:HB1	1.92	0.52
1:Ah:60:LYS:HG2	1:Ah:61:ILE:H	1.75	0.52
2:Bb:234:TRP:CD1	5:Bb:307:A1A0P:C7	2.93	0.52
5:Bb:307:A1A0P:C48	3:Cc:229:PHE:CE1	2.93	0.52
2:Bc:234:TRP:CD1	5:Bc:308:A1A0P:C7	2.93	0.52
2:Bh:70:GLY:C	5:Bh:301:A1A0P:O16	2.53	0.52
3:Cf:221:PRO:HA	5:Cf:305:A1A0P:C7	2.38	0.52
3:Cf:237:MET:HB2	5:Cf:308:A1A0P:C44	2.39	0.52
3:Cg:237:MET:CA	5:Cg:302:A1A0P:C42	2.88	0.52
1:Ag:166:PHE:O	1:Ag:167:ARG:HD2	2.10	0.51
3:Cb:237:MET:HB2	5:Cb:308:A1A0P:C44	2.41	0.51
2:Bi:71:VAL:CA	5:Bi:301:A1A0P:O15	2.58	0.51
2:Bi:92:PHE:HA	5:Bi:306:A1A0P:C23	2.40	0.51
1:Ag:125:ARG:NH1	6:Ag:607:HOH:O	2.42	0.51
2:Be:246:TYR:OH	5:Ce:304:A1A0P:C34	2.58	0.51
2:Bg:211:LEU:HD12	5:Bg:303:A1A0P:C47	2.40	0.51
2:Bg:236:MET:HE2	2:Bg:236:MET:HA	1.91	0.51
5:Bg:308:A1A0P:C17	5:Bi:307:A1A0P:C4	2.89	0.51
3:Ca:56:ASP:OD2	3:Ca:111:ARG:NH2	2.36	0.51
5:Ah:503:A1A0P:C20	3:Cg:144:LEU:CD1	2.81	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bd:50:TRP:CE2	5:Bd:305:A1A0P:C39	2.93	0.51
5:Bf:307:A1A0P:C48	3:Ce:229:PHE:CE1	2.94	0.51
2:Bg:100:GLU:HG3	5:Bg:307:A1A0P:C33	2.41	0.51
3:Ce:157:MET:HA	3:Ce:228:ALA:HB1	1.92	0.51
3:Cg:56:ASP:OD2	3:Cg:111:ARG:NH2	2.36	0.51
3:Cg:111:ARG:HA	3:Cg:115:PHE:HB2	1.93	0.51
3:Cg:157:MET:HA	3:Cg:228:ALA:HB1	1.92	0.51
1:Ab:132:ARG:HG2	1:Ab:163:MET:HG3	1.93	0.51
1:Ac:231:THR:OG1	5:Ac:502:A1A0P:O5	2.25	0.51
1:Ac:132:ARG:HG2	1:Ac:163:MET:HG3	1.93	0.51
1:Ah:166:PHE:O	1:Ah:167:ARG:HD2	2.11	0.51
5:Ba:308:A1A0P:C17	5:Bc:307:A1A0P:C4	2.89	0.51
3:Ce:105:LEU:HD13	5:Ce:306:A1A0P:C32	2.41	0.51
1:Aa:166:PHE:O	1:Aa:167:ARG:HD2	2.10	0.51
1:Ab:166:PHE:O	1:Ab:167:ARG:HD2	2.10	0.51
5:Ab:503:A1A0P:C19	3:Ca:144:LEU:HD13	2.41	0.51
1:Ae:132:ARG:HG2	1:Ae:163:MET:HG3	1.93	0.51
3:Ca:111:ARG:HA	3:Ca:115:PHE:HB2	1.93	0.51
3:Cd:157:MET:HA	3:Cd:228:ALA:HB1	1.92	0.51
3:Cf:111:ARG:HA	3:Cf:115:PHE:HB2	1.93	0.51
3:Ch:216:GLY:O	5:Ch:301:A1A0P:O16	2.27	0.51
1:Ac:166:PHE:O	1:Ac:167:ARG:HD2	2.10	0.51
1:Ad:166:PHE:O	1:Ad:167:ARG:HD2	2.10	0.51
2:Be:241:VAL:C	5:Ce:304:A1A0P:O5	2.53	0.51
3:Cb:111:ARG:HA	3:Cb:115:PHE:HB2	1.93	0.51
5:Bc:308:A1A0P:C19	5:Cb:304:A1A0P:C19	2.75	0.51
3:Cb:105:LEU:HD13	5:Cb:306:A1A0P:C32	2.41	0.51
1:Aa:132:ARG:HG2	1:Aa:163:MET:HG3	1.93	0.50
1:Ae:208:ARG:NH1	6:Ae:608:HOH:O	2.42	0.50
1:Ai:132:ARG:HG2	1:Ai:163:MET:HG3	1.93	0.50
2:Bg:246:TYR:HH	5:Ci:304:A1A0P:C34	2.24	0.50
1:Ad:132:ARG:HG2	1:Ad:163:MET:HG3	1.93	0.50
1:Ae:166:PHE:O	1:Ae:167:ARG:HD2	2.10	0.50
1:Ag:132:ARG:HG2	1:Ag:163:MET:HG3	1.93	0.50
2:Ba:101:ILE:HG23	5:Ba:306:A1A0P:C45	2.40	0.50
2:Bg:241:VAL:C	5:Ci:304:A1A0P:O5	2.54	0.50
3:Cb:221:PRO:HA	5:Cb:305:A1A0P:C7	2.40	0.50
3:Cd:111:ARG:HA	3:Cd:115:PHE:HB2	1.93	0.50
3:Ci:56:ASP:OD2	3:Ci:111:ARG:NH2	2.36	0.50
1:Aa:115:ARG:NH1	6:Aa:610:HOH:O	2.45	0.50
1:Ac:115:ARG:NH1	6:Ac:610:HOH:O	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:208:ARG:NH1	6:Ah:608:HOH:O	2.42	0.50
2:Bf:226:LEU:O	2:Bf:230:GLY:N	2.43	0.50
1:Ae:115:ARG:NH1	6:Ae:610:HOH:O	2.45	0.50
5:Bd:308:A1A0P:C4	5:Be:307:A1A0P:C17	2.89	0.50
2:Bh:71:VAL:CG2	5:Bh:301:A1A0P:O15	2.60	0.50
3:Cc:111:ARG:HA	3:Cc:115:PHE:HB2	1.93	0.50
3:Ch:157:MET:HA	3:Ch:228:ALA:HB1	1.92	0.50
1:Ab:115:ARG:NH1	6:Ab:610:HOH:O	2.45	0.50
1:Ai:115:ARG:NH1	6:Ai:610:HOH:O	2.45	0.50
2:Bi:101:ILE:HG23	5:Bi:305:A1A0P:C45	2.42	0.50
3:Cc:249:ARG:HH21	5:Cc:303:A1A0P:C35	2.24	0.50
3:Cg:30:TRP:HE1	5:Cg:306:A1A0P:C12	2.24	0.50
3:Ch:240:PHE:CB	5:Ch:308:A1A0P:C38	2.89	0.50
3:Ci:221:PRO:CG	5:Ci:305:A1A0P:O3	2.53	0.50
1:Aa:162:SER:HG	1:Aa:164:SER:HG	1.58	0.50
1:Af:132:ARG:HG2	1:Af:163:MET:HG3	1.93	0.50
1:Ah:132:ARG:HG2	1:Ah:163:MET:HG3	1.93	0.50
2:Ba:208:LEU:HD22	5:Cc:303:A1A0P:C7	2.42	0.50
5:Bh:308:A1A0P:C4	5:Bi:307:A1A0P:C17	2.90	0.50
3:Ch:111:ARG:HA	3:Ch:115:PHE:HB2	1.93	0.50
3:Ci:30:TRP:HE1	5:Ci:306:A1A0P:C12	2.24	0.50
3:Ci:105:LEU:HD13	5:Ci:306:A1A0P:C32	2.42	0.50
3:Ci:241:ILE:CG1	5:Ci:302:A1A0P:C43	2.89	0.50
1:Af:115:ARG:NH1	6:Af:609:HOH:O	2.45	0.50
5:Bb:309:A1A0P:C4	5:Bc:307:A1A0P:C17	2.90	0.50
2:Bd:246:TYR:HH	5:Cf:304:A1A0P:C34	2.25	0.50
1:Ac:208:ARG:NH1	6:Ac:608:HOH:O	2.42	0.50
5:Bd:308:A1A0P:C17	5:Bf:308:A1A0P:C4	2.90	0.50
2:Bf:101:ILE:HG23	5:Bf:305:A1A0P:C45	2.42	0.50
2:Bh:208:LEU:HD22	5:Ch:303:A1A0P:C7	2.42	0.50
3:Ca:221:PRO:HA	5:Ca:305:A1A0P:C7	2.41	0.50
3:Ch:240:PHE:HB2	5:Ch:302:A1A0P:C40	2.34	0.50
1:Af:208:ARG:NH1	6:Af:607:HOH:O	2.42	0.49
1:Af:231:THR:OG1	5:Af:502:A1A0P:O5	2.25	0.49
1:Ah:125:ARG:NH1	6:Ah:607:HOH:O	2.42	0.49
2:Bb:96:GLU:HA	5:Bb:306:A1A0P:C29	2.41	0.49
2:Bf:242:ALA:N	5:Cd:304:A1A0P:O5	2.45	0.49
2:Bh:154:GLU:HB3	3:Ch:110:ASN:CG	2.37	0.49
3:Cd:240:PHE:CB	5:Cd:302:A1A0P:C41	2.70	0.49
3:Cg:221:PRO:CG	5:Cg:305:A1A0P:O3	2.49	0.49
3:Ci:16:ARG:HG2	3:Ci:16:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bb:154:GLU:HB3	3:Cb:110:ASN:CG	2.37	0.49
2:Bb:226:LEU:O	2:Bb:230:GLY:N	2.43	0.49
2:Bc:154:GLU:HB3	3:Ca:110:ASN:CG	2.37	0.49
2:Bd:189:PHE:CD2	5:Bd:303:A1A0P:C44	2.95	0.49
2:Be:226:LEU:O	2:Be:230:GLY:N	2.43	0.49
2:Bf:219:MET:HB2	5:Cd:303:A1A0P:C33	2.43	0.49
2:Bi:154:GLU:HB3	3:Cg:110:ASN:CG	2.37	0.49
5:Ch:302:A1A0P:C2	5:Ch:308:A1A0P:C20	2.90	0.49
5:Ci:302:A1A0P:C2	5:Ci:308:A1A0P:C20	2.90	0.49
1:Aa:208:ARG:NH1	6:Aa:608:HOH:O	2.42	0.49
1:Ah:56:LYS:HD2	1:Ah:59:VAL:HG12	1.95	0.49
2:Bd:154:GLU:HB3	3:Cf:110:ASN:CG	2.37	0.49
2:Bg:246:TYR:HH	5:Ci:304:A1A0P:C7	2.18	0.49
5:Cb:302:A1A0P:C2	5:Cb:308:A1A0P:C20	2.90	0.49
5:Cd:302:A1A0P:C2	5:Cd:308:A1A0P:C20	2.90	0.49
5:Cg:302:A1A0P:C2	5:Cg:308:A1A0P:C20	2.90	0.49
3:Ci:111:ARG:HA	3:Ci:115:PHE:HB2	1.93	0.49
1:Ag:115:ARG:NH1	6:Ag:610:HOH:O	2.45	0.49
2:Ba:226:LEU:O	2:Ba:230:GLY:N	2.43	0.49
2:Bd:211:LEU:HD11	5:Bd:303:A1A0P:C48	2.41	0.49
2:Be:154:GLU:HB3	3:Ce:110:ASN:CG	2.37	0.49
5:Be:308:A1A0P:C19	5:Cf:304:A1A0P:C19	2.75	0.49
5:Ah:503:A1A0P:C19	5:Bg:306:A1A0P:C26	2.91	0.49
1:Ai:56:LYS:HD2	1:Ai:59:VAL:HG12	1.95	0.49
5:Bd:309:A1A0P:C48	3:Cd:233:LEU:HD11	2.37	0.49
2:Be:100:GLU:HG3	5:Be:306:A1A0P:C33	2.42	0.49
5:Ba:308:A1A0P:C4	5:Bb:309:A1A0P:C17	2.90	0.49
2:Be:229:TRP:HZ3	5:Be:308:A1A0P:C34	2.24	0.49
2:Bi:70:GLY:C	5:Bi:301:A1A0P:P14	2.96	0.49
3:Ca:34:PHE:HE2	5:Ca:307:A1A0P:C31	2.25	0.49
3:Ce:111:ARG:HA	3:Ce:115:PHE:HB2	1.93	0.49
3:Ce:221:PRO:CG	5:Ce:305:A1A0P:O3	2.53	0.49
1:Ah:231:THR:CG2	5:Ah:502:A1A0P:C34	2.91	0.49
2:Bd:229:TRP:HH2	5:Bd:309:A1A0P:C34	2.24	0.49
2:Bf:154:GLU:HB3	3:Cd:110:ASN:CG	2.37	0.49
3:Cc:237:MET:HB2	5:Cc:308:A1A0P:C44	2.43	0.49
5:Ce:302:A1A0P:C2	5:Ce:308:A1A0P:C20	2.90	0.49
3:Cf:237:MET:HA	5:Cf:302:A1A0P:C42	2.43	0.49
3:Cg:37:PHE:CZ	5:Cg:306:A1A0P:C43	2.96	0.49
1:Aa:231:THR:CB	5:Aa:502:A1A0P:O5	2.57	0.49
2:Bb:219:MET:CG	5:Cb:303:A1A0P:C32	2.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bb:243:PRO:HD3	5:Cb:304:A1A0P:C4	2.43	0.49
1:Ab:208:ARG:NH1	6:Ab:608:HOH:O	2.42	0.49
5:Ad:503:A1A0P:C19	5:Be:305:A1A0P:C26	2.91	0.49
2:Bb:219:MET:HB2	5:Cb:303:A1A0P:C33	2.43	0.49
5:Be:307:A1A0P:C4	5:Bf:308:A1A0P:C17	2.90	0.49
2:Bg:154:GLU:HB3	3:Ci:110:ASN:CG	2.37	0.49
5:Bg:308:A1A0P:C4	5:Bh:308:A1A0P:C17	2.90	0.49
2:Bh:208:LEU:HB2	5:Ch:303:A1A0P:C7	2.43	0.49
5:Ca:302:A1A0P:C2	5:Ca:308:A1A0P:C20	2.90	0.49
5:Cc:302:A1A0P:C2	5:Cc:308:A1A0P:C20	2.91	0.49
3:Cg:16:ARG:HG2	3:Cg:16:ARG:NH1	2.27	0.49
5:Aa:503:A1A0P:C19	5:Bb:305:A1A0P:C26	2.91	0.48
1:Af:56:LYS:HD2	1:Af:59:VAL:HG12	1.95	0.48
1:Ah:234:LYS:HE3	5:Ah:502:A1A0P:O18	2.11	0.48
3:Cd:16:ARG:HG2	3:Cd:16:ARG:NH1	2.27	0.48
5:Cf:302:A1A0P:C2	5:Cf:308:A1A0P:C20	2.90	0.48
3:Ci:26:ARG:HH21	5:Ci:306:A1A0P:C8	2.25	0.48
5:Af:503:A1A0P:C19	5:Bf:305:A1A0P:C26	2.91	0.48
2:Bc:226:LEU:O	2:Bc:230:GLY:N	2.43	0.48
2:Bd:92:PHE:HA	5:Bd:307:A1A0P:C23	2.43	0.48
2:Bd:234:TRP:CD1	5:Bd:309:A1A0P:C7	2.97	0.48
3:Ce:65:ARG:HB3	3:Ce:208:GLU:HB3	1.95	0.48
1:Ad:56:LYS:HD2	1:Ad:59:VAL:HG12	1.95	0.48
2:Bf:208:LEU:HD22	5:Cd:303:A1A0P:C7	2.42	0.48
2:Bi:154:GLU:HB3	3:Cg:110:ASN:ND2	2.28	0.48
3:Cf:56:ASP:OD2	3:Cf:111:ARG:NH2	2.36	0.48
1:Af:124:PHE:CE1	1:Af:140:THR:HG21	2.49	0.48
5:Ag:503:A1A0P:C19	5:Bh:305:A1A0P:C26	2.91	0.48
1:Ah:60:LYS:CG	1:Ah:61:ILE:H	2.27	0.48
5:Ai:503:A1A0P:C19	5:Bi:305:A1A0P:C26	2.91	0.48
5:Ai:503:A1A0P:C26	5:Bi:305:A1A0P:C32	2.90	0.48
2:Ba:154:GLU:HB3	3:Cc:110:ASN:ND2	2.29	0.48
2:Be:154:GLU:HB3	3:Cc:110:ASN:ND2	2.28	0.48
5:Be:308:A1A0P:C48	3:Cf:233:LEU:HD11	2.41	0.48
2:Bf:211:LEU:HD11	5:Bf:302:A1A0P:C48	2.40	0.48
2:Bi:241:VAL:O	5:Cg:304:A1A0P:O5	2.30	0.48
3:Ca:240:PHE:CG	5:Ca:308:A1A0P:C38	2.97	0.48
3:Ci:240:PHE:CG	5:Ci:308:A1A0P:C38	2.96	0.48
1:Aa:124:PHE:CE1	1:Aa:140:THR:HG21	2.49	0.48
5:Ab:503:A1A0P:C19	5:Ba:306:A1A0P:C26	2.91	0.48
2:Ba:154:GLU:HB3	3:Cc:110:ASN:CG	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bb:242:ALA:N	5:Cb:304:A1A0P:O5	2.47	0.48
2:Bd:71:VAL:HA	5:Bd:302:A1A0P:O15	2.12	0.48
2:Bg:156:ASP:OD1	2:Bg:160:HIS:NE2	2.47	0.48
2:Bh:208:LEU:CD1	5:Ch:303:A1A0P:C34	2.89	0.48
3:Cd:249:ARG:HH21	5:Cd:303:A1A0P:C35	2.27	0.48
1:Ab:56:LYS:HD2	1:Ab:59:VAL:HG12	1.95	0.48
1:Ab:124:PHE:CE1	1:Ab:140:THR:HG21	2.49	0.48
1:Ac:56:LYS:HD2	1:Ac:59:VAL:HG12	1.94	0.48
1:Ac:231:THR:CG2	5:Ac:502:A1A0P:C7	2.92	0.48
1:Ae:56:LYS:HD2	1:Ae:59:VAL:HG12	1.95	0.48
5:Ae:503:A1A0P:C19	5:Bd:306:A1A0P:C26	2.91	0.48
1:Af:231:THR:CG2	5:Af:502:A1A0P:C7	2.92	0.48
1:Ah:115:ARG:NH1	6:Ah:610:HOH:O	2.45	0.48
2:Bf:50:TRP:CE2	5:Bf:304:A1A0P:C39	2.97	0.48
2:Bg:154:GLU:HB3	3:Ci:110:ASN:ND2	2.29	0.48
2:Bi:189:PHE:CD2	5:Bi:302:A1A0P:C44	2.96	0.48
3:Cc:240:PHE:HB2	5:Cc:302:A1A0P:C40	2.36	0.48
1:Ac:124:PHE:CE1	1:Ac:140:THR:HG21	2.49	0.48
1:Ae:234:LYS:HE3	5:Ae:502:A1A0P:O18	2.14	0.48
5:Af:503:A1A0P:C26	5:Bf:305:A1A0P:C32	2.90	0.48
2:Bc:243:PRO:HD3	5:Ca:304:A1A0P:C4	2.44	0.48
2:Bf:154:GLU:HB3	3:Cd:110:ASN:ND2	2.28	0.48
3:Cd:237:MET:O	5:Cd:302:A1A0P:C41	2.58	0.48
3:Ci:249:ARG:HH21	5:Ci:303:A1A0P:C35	2.27	0.48
1:Ag:56:LYS:HD2	1:Ag:59:VAL:HG12	1.95	0.48
1:Ah:124:PHE:CE1	1:Ah:140:THR:HG21	2.49	0.48
2:Ba:166:ASP:OD1	2:Ba:166:ASP:N	2.47	0.48
2:Be:166:ASP:OD1	2:Be:166:ASP:N	2.47	0.48
2:Bf:156:ASP:OD1	2:Bf:160:HIS:NE2	2.47	0.48
2:Bf:159:TRP:O	2:Bf:163:ILE:HG13	2.14	0.48
2:Bh:154:GLU:HB3	3:Ch:110:ASN:ND2	2.28	0.48
3:Cc:241:ILE:HD11	5:Cc:302:A1A0P:C30	2.40	0.48
3:Ch:249:ARG:HH21	5:Ch:303:A1A0P:C35	2.25	0.48
1:Ad:115:ARG:NH1	6:Ad:610:HOH:O	2.45	0.48
2:Be:156:ASP:OD1	2:Be:160:HIS:NE2	2.47	0.48
2:Bi:219:MET:HG3	5:Cg:303:A1A0P:C33	2.39	0.48
3:Cc:240:PHE:CG	5:Cc:308:A1A0P:C38	2.97	0.48
3:Cf:240:PHE:CG	5:Cf:308:A1A0P:C38	2.96	0.48
1:Aa:56:LYS:HD2	1:Aa:59:VAL:HG12	1.94	0.48
1:Aa:336:TYR:O	1:Aa:337:PRO:C	2.57	0.48
5:Aa:503:A1A0P:C26	5:Bb:305:A1A0P:C32	2.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ab:503:A1A0P:C48	5:Ca:301:A1A0P:C47	2.92	0.48
5:Ac:503:A1A0P:C19	5:Bc:305:A1A0P:C26	2.91	0.48
1:Af:336:TYR:O	1:Af:337:PRO:C	2.57	0.48
5:Ah:504:A1A0P:C44	2:Bg:221:LEU:HD21	2.44	0.48
1:Ai:336:TYR:O	1:Ai:337:PRO:C	2.57	0.48
2:Ba:159:TRP:O	2:Ba:163:ILE:HG13	2.14	0.48
2:Bb:154:GLU:HB3	3:Cb:110:ASN:ND2	2.28	0.48
2:Bc:166:ASP:OD1	2:Bc:166:ASP:N	2.47	0.48
3:Cd:216:GLY:O	5:Cd:301:A1A0P:O16	2.31	0.48
3:Cg:34:PHE:HE2	5:Cg:307:A1A0P:C31	2.26	0.48
3:Ch:65:ARG:HB3	3:Ch:208:GLU:HB3	1.96	0.48
3:Ch:161:LEU:HD22	5:Ch:305:A1A0P:C38	2.44	0.48
3:Ci:243:ARG:NH2	6:Ci:409:HOH:O	2.46	0.48
1:Ad:124:PHE:CE1	1:Ad:140:THR:HG21	2.49	0.47
1:Ag:124:PHE:CE1	1:Ag:140:THR:HG21	2.49	0.47
3:Cf:87:TRP:O	3:Cf:91:ARG:NH1	2.46	0.47
1:Ac:336:TYR:O	1:Ac:337:PRO:C	2.57	0.47
5:Ae:503:A1A0P:C26	5:Bd:306:A1A0P:C32	2.90	0.47
5:Ah:503:A1A0P:C26	5:Bg:306:A1A0P:C32	2.90	0.47
2:Bb:50:TRP:CE2	5:Bb:304:A1A0P:C39	2.97	0.47
2:Bh:246:TYR:HE2	5:Bh:308:A1A0P:C29	2.27	0.47
2:Bi:156:ASP:OD1	2:Bi:160:HIS:NE2	2.47	0.47
2:Bi:159:TRP:O	2:Bi:163:ILE:HG13	2.14	0.47
2:Bi:241:VAL:HG12	3:Cg:51:THR:C	2.39	0.47
3:Cg:65:ARG:HB3	3:Cg:208:GLU:HB3	1.96	0.47
3:Cg:243:ARG:NH2	6:Cg:410:HOH:O	2.46	0.47
3:Ch:16:ARG:HG2	3:Ch:16:ARG:NH1	2.27	0.47
5:Ad:503:A1A0P:C48	5:Cf:301:A1A0P:C47	2.92	0.47
1:Ag:231:THR:CG2	5:Ag:502:A1A0P:C7	2.92	0.47
1:Ag:331:LYS:HE2	1:Ag:331:LYS:HB2	1.39	0.47
1:Ai:124:PHE:CE1	1:Ai:140:THR:HG21	2.49	0.47
2:Ba:156:ASP:OD1	2:Ba:160:HIS:NE2	2.47	0.47
2:Bb:211:LEU:HD11	5:Bb:302:A1A0P:C48	2.43	0.47
2:Bc:154:GLU:HB3	3:Ca:110:ASN:ND2	2.28	0.47
2:Bd:156:ASP:OD1	2:Bd:160:HIS:NE2	2.47	0.47
2:Bh:159:TRP:O	2:Bh:163:ILE:HG13	2.14	0.47
2:Bh:208:LEU:CD2	5:Ch:303:A1A0P:C34	2.92	0.47
2:Bh:226:LEU:O	2:Bh:230:GLY:N	2.43	0.47
3:Cc:65:ARG:HB3	3:Cc:208:GLU:HB3	1.96	0.47
3:Cd:243:ARG:NH2	6:Cd:409:HOH:O	2.46	0.47
3:Cf:243:ARG:NH2	6:Cf:408:HOH:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:336:TYR:O	1:Ab:337:PRO:C	2.57	0.47
1:Ad:231:THR:OG1	5:Ad:502:A1A0P:O5	2.32	0.47
2:Bd:154:GLU:HB3	3:Cf:110:ASN:ND2	2.29	0.47
2:Bf:71:VAL:CG2	5:Bf:301:A1A0P:O15	2.62	0.47
2:Bg:159:TRP:O	2:Bg:163:ILE:HG13	2.14	0.47
2:Bg:229:TRP:HZ3	5:Bg:309:A1A0P:C34	2.27	0.47
2:Bi:246:TYR:OH	5:Cg:304:A1A0P:C39	2.58	0.47
3:Ca:87:TRP:O	3:Ca:91:ARG:NH1	2.46	0.47
3:Ca:105:LEU:HD13	5:Ca:306:A1A0P:C32	2.44	0.47
3:Ce:30:TRP:HE1	5:Ce:306:A1A0P:C12	2.26	0.47
1:Aa:286:VAL:HA	1:Aa:302:LEU:HD23	1.97	0.47
5:Ad:503:A1A0P:C26	5:Be:305:A1A0P:C32	2.90	0.47
1:Ag:36:LYS:HG2	1:Ag:374:TYR:HA	1.97	0.47
5:Ba:308:A1A0P:C17	5:Bc:307:A1A0P:O5	2.63	0.47
2:Bc:156:ASP:OD1	2:Bc:160:HIS:NE2	2.47	0.47
2:Bc:159:TRP:O	2:Bc:163:ILE:HG13	2.14	0.47
2:Bf:70:GLY:C	5:Bf:301:A1A0P:O16	2.56	0.47
2:Bf:241:VAL:HG12	3:Cd:51:THR:C	2.39	0.47
2:Bg:166:ASP:OD1	2:Bg:166:ASP:N	2.47	0.47
5:Bg:308:A1A0P:C17	5:Bi:307:A1A0P:O5	2.63	0.47
5:Bg:309:A1A0P:C46	3:Cg:229:PHE:CZ	2.97	0.47
2:Bh:156:ASP:OD1	2:Bh:160:HIS:NE2	2.47	0.47
2:Bh:241:VAL:HG12	3:Ch:51:THR:C	2.40	0.47
3:Cc:16:ARG:HG2	3:Cc:16:ARG:NH1	2.27	0.47
3:Cg:240:PHE:CB	5:Cg:302:A1A0P:C41	2.75	0.47
3:Ch:243:ARG:NH2	6:Ch:408:HOH:O	2.47	0.47
1:Ae:240:LEU:HD21	5:Bd:306:A1A0P:C29	2.44	0.47
2:Bb:159:TRP:O	2:Bb:163:ILE:HG13	2.14	0.47
2:Bc:211:LEU:HD12	5:Bc:302:A1A0P:C47	2.45	0.47
2:Be:159:TRP:O	2:Be:163:ILE:HG13	2.14	0.47
2:Bh:71:VAL:HA	5:Bh:301:A1A0P:O15	2.14	0.47
3:Ca:16:ARG:HG2	3:Ca:16:ARG:NH1	2.27	0.47
3:Cb:243:ARG:NH2	6:Cb:408:HOH:O	2.47	0.47
1:Ad:36:LYS:HG2	1:Ad:374:TYR:HA	1.97	0.47
1:Af:36:LYS:HG2	1:Af:374:TYR:HA	1.97	0.47
1:Ag:231:THR:CG2	5:Ag:502:A1A0P:C34	2.93	0.47
1:Ah:164:SER:HG	2:Be:84:GLU:CD	2.23	0.47
1:Ai:36:LYS:HG2	1:Ai:374:TYR:HA	1.97	0.47
2:Bb:156:ASP:OD1	2:Bb:160:HIS:NE2	2.47	0.47
2:Bd:241:VAL:C	5:Cf:304:A1A0P:O5	2.58	0.47
5:Bd:308:A1A0P:O5	5:Be:307:A1A0P:C17	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:211:LEU:HD12	5:Be:302:A1A0P:C47	2.44	0.47
2:Bh:189:PHE:CD2	5:Bh:302:A1A0P:C44	2.98	0.47
2:Bi:208:LEU:HD22	5:Cg:303:A1A0P:C34	2.45	0.47
2:Bi:226:LEU:O	2:Bi:230:GLY:N	2.43	0.47
3:Ca:26:ARG:HH21	5:Ca:306:A1A0P:C8	2.28	0.47
3:Cb:65:ARG:HB3	3:Cb:208:GLU:HB3	1.96	0.47
3:Ce:87:TRP:O	3:Ce:91:ARG:NH1	2.46	0.47
3:Ce:237:MET:CG	5:Ce:302:A1A0P:C42	2.89	0.47
3:Ce:243:ARG:NH2	6:Ce:408:HOH:O	2.47	0.47
3:Cf:16:ARG:HG2	3:Cf:16:ARG:NH1	2.27	0.47
3:Ci:65:ARG:HB3	3:Ci:208:GLU:HB3	1.95	0.47
1:Aa:36:LYS:HG2	1:Aa:374:TYR:HA	1.97	0.47
1:Ac:286:VAL:HA	1:Ac:302:LEU:HD23	1.97	0.47
1:Ae:231:THR:HG21	5:Ae:502:A1A0P:C7	2.44	0.47
1:Ah:336:TYR:O	1:Ah:337:PRO:C	2.57	0.47
2:Bd:166:ASP:OD1	2:Bd:166:ASP:N	2.47	0.47
3:Ca:243:ARG:NH2	6:Ca:409:HOH:O	2.46	0.47
3:Cc:105:LEU:HD13	5:Cc:306:A1A0P:C32	2.45	0.47
1:Ab:36:LYS:HG2	1:Ab:374:TYR:HA	1.97	0.47
1:Ab:231:THR:HG23	5:Ab:502:A1A0P:C34	2.44	0.47
1:Ac:231:THR:CG2	5:Ac:502:A1A0P:C34	2.93	0.47
1:Af:231:THR:CG2	5:Af:502:A1A0P:C34	2.93	0.47
1:Af:286:VAL:HA	1:Af:302:LEU:HD23	1.97	0.47
2:Bd:159:TRP:O	2:Bd:163:ILE:HG13	2.14	0.47
2:Bh:246:TYR:OH	5:Ch:304:A1A0P:C39	2.58	0.47
3:Ca:65:ARG:HB3	3:Ca:208:GLU:HB3	1.96	0.47
3:Cc:243:ARG:NH2	6:Cc:409:HOH:O	2.47	0.47
5:Ac:503:A1A0P:C48	5:Cb:301:A1A0P:C47	2.94	0.47
1:Ag:286:VAL:HA	1:Ag:302:LEU:HD23	1.97	0.47
1:Ag:336:TYR:O	1:Ag:337:PRO:C	2.57	0.47
1:Ac:36:LYS:HG2	1:Ac:374:TYR:HA	1.97	0.46
2:Bd:88:TYR:HE1	5:Bd:307:A1A0P:C8	2.27	0.46
2:Bg:241:VAL:HG12	3:Ci:51:THR:C	2.40	0.46
1:Ac:233:ARG:HA	3:Cb:143:MET:HE1	1.97	0.46
1:Ae:124:PHE:CE1	1:Ae:140:THR:HG21	2.49	0.46
2:Bd:213:LEU:HD13	2:Bd:258:VAL:HB	1.98	0.46
2:Bf:243:PRO:HD3	5:Cd:304:A1A0P:C4	2.46	0.46
2:Bh:213:LEU:HD13	2:Bh:258:VAL:HB	1.98	0.46
3:Cf:237:MET:CG	5:Cf:302:A1A0P:C42	2.88	0.46
1:Ad:208:ARG:NH1	6:Ad:608:HOH:O	2.42	0.46
1:Ad:286:VAL:HA	1:Ad:302:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ad:503:A1A0P:C20	3:Cf:144:LEU:CD1	2.88	0.46
5:Ai:503:A1A0P:C48	5:Ch:301:A1A0P:C47	2.94	0.46
2:Ba:211:LEU:HD11	5:Ba:303:A1A0P:C48	2.41	0.46
2:Bd:103:THR:OG1	5:Bd:305:A1A0P:C31	2.63	0.46
2:Bg:226:LEU:O	2:Bg:230:GLY:N	2.43	0.46
3:Cd:65:ARG:HB3	3:Cd:208:GLU:HB3	1.95	0.46
3:Ce:26:ARG:HH21	5:Ce:306:A1A0P:C8	2.28	0.46
3:Ce:221:PRO:HA	5:Ce:305:A1A0P:C7	2.46	0.46
5:Aa:503:A1A0P:C48	5:Cc:301:A1A0P:C47	2.94	0.46
2:Bb:213:LEU:HD13	2:Bb:258:VAL:HB	1.98	0.46
5:Bg:308:A1A0P:O18	5:Bi:307:A1A0P:O5	2.33	0.46
2:Bh:243:PRO:HD3	5:Ch:304:A1A0P:C4	2.45	0.46
1:Ad:336:TYR:O	1:Ad:337:PRO:C	2.57	0.46
1:Ae:286:VAL:HA	1:Ae:302:LEU:HD23	1.97	0.46
5:Ae:503:A1A0P:C48	5:Cd:301:A1A0P:C47	2.93	0.46
1:Af:233:ARG:HA	3:Ce:143:MET:HE1	1.97	0.46
2:Ba:213:LEU:HD13	2:Ba:258:VAL:HB	1.98	0.46
2:Ba:234:TRP:CG	5:Ba:309:A1A0P:C7	2.98	0.46
5:Bd:308:A1A0P:O18	5:Bf:308:A1A0P:O5	2.34	0.46
5:Bd:308:A1A0P:O5	5:Be:307:A1A0P:O18	2.33	0.46
2:Be:241:VAL:HG12	3:Ce:51:THR:C	2.40	0.46
2:Bg:213:LEU:HD13	2:Bg:258:VAL:HB	1.98	0.46
3:Ce:56:ASP:OD2	3:Ce:111:ARG:NH2	2.36	0.46
1:Aa:410:ILE:HG21	3:Ca:179:GLU:HG3	1.97	0.46
1:Ac:111:PRO:HA	3:Cb:193:TYR:CE1	2.51	0.46
1:Af:111:PRO:HA	3:Ce:193:TYR:CE1	2.51	0.46
2:Bc:241:VAL:HG12	3:Ca:51:THR:C	2.39	0.46
2:Be:213:LEU:HD13	2:Be:258:VAL:HB	1.98	0.46
2:Bf:100:GLU:HG3	5:Bf:306:A1A0P:C33	2.46	0.46
2:Bg:208:LEU:HD22	5:Ci:303:A1A0P:C7	2.45	0.46
3:Cf:65:ARG:HB3	3:Cf:208:GLU:HB3	1.96	0.46
3:Cg:237:MET:CG	5:Cg:302:A1A0P:C42	2.88	0.46
1:Aa:33:HIS:HE1	1:Aa:137:HIS:ND1	2.14	0.46
1:Ae:233:ARG:HA	3:Cd:143:MET:HE1	1.98	0.46
1:Ah:233:ARG:HA	3:Cg:143:MET:HE1	1.98	0.46
1:Ai:233:ARG:HA	3:Ch:143:MET:HE1	1.97	0.46
5:Ba:308:A1A0P:O5	5:Bb:309:A1A0P:C17	2.64	0.46
2:Bb:229:TRP:HH2	5:Bb:307:A1A0P:C34	2.25	0.46
2:Bb:241:VAL:HG12	3:Cb:51:THR:C	2.40	0.46
5:Bc:308:A1A0P:C48	3:Cb:233:LEU:HD11	2.43	0.46
5:Bd:308:A1A0P:C17	5:Bf:308:A1A0P:O5	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bh:308:A1A0P:O5	5:Bi:307:A1A0P:O18	2.34	0.46
3:Ce:61:TRP:CH2	3:Ce:204:ILE:HG22	2.50	0.46
1:Ab:33:HIS:HE1	1:Ab:137:HIS:ND1	2.14	0.46
5:Ag:503:A1A0P:C26	5:Bh:305:A1A0P:C32	2.90	0.46
1:Ah:286:VAL:HA	1:Ah:302:LEU:HD23	1.97	0.46
2:Bc:162:THR:HG22	3:Ca:121:PHE:HE2	1.81	0.46
2:Bh:234:TRP:CG	5:Bh:307:A1A0P:C7	2.99	0.46
1:Ab:286:VAL:HA	1:Ab:302:LEU:HD23	1.97	0.46
1:Ac:33:HIS:HE1	1:Ac:137:HIS:ND1	2.14	0.46
1:Ac:50:TYR:OH	1:Ac:121:THR:HG21	2.16	0.46
1:Ae:33:HIS:HE1	1:Ae:137:HIS:ND1	2.14	0.46
5:Ah:503:A1A0P:C48	5:Cg:301:A1A0P:C47	2.92	0.46
1:Ai:286:VAL:HA	1:Ai:302:LEU:HD23	1.97	0.46
2:Bc:221:LEU:HB3	2:Bc:222:PRO:HD3	1.98	0.46
2:Bi:221:LEU:HB3	2:Bi:222:PRO:HD3	1.98	0.46
2:Bi:241:VAL:C	5:Cg:304:A1A0P:O5	2.59	0.46
3:Ce:237:MET:HB2	5:Ce:308:A1A0P:C44	2.46	0.46
3:Cf:37:PHE:O	3:Cf:41:VAL:HG23	2.16	0.46
3:Ci:61:TRP:CH2	3:Ci:204:ILE:HG22	2.50	0.46
1:Ad:50:TYR:OH	1:Ad:121:THR:HG21	2.16	0.46
5:Af:503:A1A0P:C48	5:Ce:301:A1A0P:C47	2.94	0.46
1:Ag:208:ARG:NH1	6:Ag:608:HOH:O	2.42	0.46
1:Ai:111:PRO:HA	3:Ch:193:TYR:CE1	2.51	0.46
2:Ba:241:VAL:HG12	3:Cc:51:THR:C	2.40	0.46
5:Ba:308:A1A0P:O18	5:Bc:307:A1A0P:O5	2.33	0.46
2:Bd:221:LEU:HB3	2:Bd:222:PRO:HD3	1.98	0.46
2:Bd:229:TRP:HZ3	5:Bd:309:A1A0P:C34	2.25	0.46
2:Bd:241:VAL:HG12	3:Cf:51:THR:C	2.40	0.46
2:Bf:181:TYR:HA	2:Bf:184:TYR:CE2	2.51	0.46
3:Cb:16:ARG:HG2	3:Cb:16:ARG:NH1	2.27	0.46
3:Ci:87:TRP:O	3:Ci:91:ARG:NH1	2.46	0.46
5:Ab:503:A1A0P:C26	5:Ba:306:A1A0P:C32	2.90	0.45
1:Ae:36:LYS:HG2	1:Ae:374:TYR:HA	1.97	0.45
5:Bb:309:A1A0P:O5	5:Bc:307:A1A0P:O18	2.34	0.45
2:Bd:226:LEU:O	2:Bd:230:GLY:N	2.43	0.45
2:Bg:181:TYR:HA	2:Bg:184:TYR:CE2	2.51	0.45
2:Bh:162:THR:HG22	3:Ch:121:PHE:HE2	1.81	0.45
1:Ac:280:PRO:C	1:Ac:282:VAL:N	2.74	0.45
1:Ai:50:TYR:OH	1:Ai:121:THR:HG21	2.16	0.45
2:Ba:254:LEU:CD1	5:Cc:303:A1A0P:C31	2.95	0.45
2:Bb:221:LEU:HB3	2:Bb:222:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:162:THR:HG22	3:Ce:121:PHE:HE2	1.81	0.45
2:Be:243:PRO:HD3	5:Ce:304:A1A0P:C4	2.45	0.45
2:Bh:246:TYR:OH	5:Ch:304:A1A0P:C34	2.64	0.45
2:Bi:88:TYR:HE1	5:Bi:306:A1A0P:C8	2.29	0.45
2:Bi:181:TYR:HA	2:Bi:184:TYR:CE2	2.51	0.45
3:Ca:37:PHE:O	3:Ca:41:VAL:HG23	2.16	0.45
3:Ch:61:TRP:CH2	3:Ch:204:ILE:HG22	2.50	0.45
1:Aa:101:LYS:HA	1:Aa:101:LYS:HD2	1.58	0.45
1:Af:33:HIS:HE1	1:Af:137:HIS:ND1	2.14	0.45
1:Af:50:TYR:OH	1:Af:121:THR:HG21	2.16	0.45
1:Ag:410:ILE:HG21	3:Cg:179:GLU:HG3	1.97	0.45
5:Be:307:A1A0P:O5	5:Bf:308:A1A0P:C17	2.64	0.45
2:Bf:221:LEU:HB3	2:Bf:222:PRO:HD3	1.98	0.45
2:Bg:221:LEU:HB3	2:Bg:222:PRO:HD3	1.98	0.45
5:Bg:308:A1A0P:O5	5:Bh:308:A1A0P:C17	2.64	0.45
3:Cc:221:PRO:HA	5:Cc:305:A1A0P:C7	2.46	0.45
3:Cc:237:MET:CG	5:Cc:302:A1A0P:C42	2.92	0.45
3:Cg:37:PHE:O	3:Cg:41:VAL:HG23	2.16	0.45
1:Ab:233:ARG:HA	3:Ca:143:MET:HE1	1.98	0.45
1:Ae:336:TYR:O	1:Ae:337:PRO:C	2.57	0.45
1:Af:101:LYS:HA	1:Af:101:LYS:HD2	1.58	0.45
1:Ag:50:TYR:OH	1:Ag:121:THR:HG21	2.16	0.45
1:Ah:101:LYS:HA	1:Ah:101:LYS:HD2	1.58	0.45
1:Ai:33:HIS:HE1	1:Ai:137:HIS:ND1	2.14	0.45
1:Ai:280:PRO:C	1:Ai:282:VAL:N	2.74	0.45
5:Bb:309:A1A0P:O5	5:Bc:307:A1A0P:C17	2.64	0.45
2:Be:211:LEU:HD13	5:Be:302:A1A0P:C48	2.38	0.45
5:Bh:308:A1A0P:O5	5:Bi:307:A1A0P:C17	2.64	0.45
3:Cc:87:TRP:O	3:Cc:91:ARG:NH1	2.46	0.45
3:Cd:87:TRP:O	3:Cd:91:ARG:NH1	2.46	0.45
3:Cd:240:PHE:CB	5:Cd:308:A1A0P:C38	2.95	0.45
3:Ce:249:ARG:HH21	5:Ce:303:A1A0P:C35	2.30	0.45
3:Cf:30:TRP:HE1	5:Cf:306:A1A0P:C12	2.30	0.45
3:Ci:37:PHE:O	3:Ci:41:VAL:HG23	2.16	0.45
1:Aa:94:PRO:HB2	2:Ba:74:TRP:CZ3	2.51	0.45
1:Ah:36:LYS:HG2	1:Ah:374:TYR:HA	1.97	0.45
2:Ba:181:TYR:HA	2:Ba:184:TYR:CE2	2.51	0.45
2:Bc:181:TYR:HA	2:Bc:184:TYR:CE2	2.51	0.45
3:Ca:30:TRP:HE1	5:Ca:306:A1A0P:C12	2.30	0.45
3:Cc:37:PHE:O	3:Cc:41:VAL:HG23	2.16	0.45
1:Ad:240:LEU:HD21	5:Be:305:A1A0P:C29	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ag:54:TRP:CD2	1:Ag:155:LYS:HD3	2.52	0.45
5:Ag:503:A1A0P:C48	5:Ci:301:A1A0P:C47	2.94	0.45
1:Ai:54:TRP:CD2	1:Ai:155:LYS:HD3	2.52	0.45
2:Ba:221:LEU:HB3	2:Ba:222:PRO:HD3	1.98	0.45
2:Bd:83:PRO:O	2:Bd:87:THR:HG22	2.17	0.45
2:Bd:181:TYR:HA	2:Bd:184:TYR:CE2	2.51	0.45
2:Be:181:TYR:HA	2:Be:184:TYR:CE2	2.51	0.45
5:Be:308:A1A0P:C48	3:Cf:229:PHE:CE1	2.99	0.45
2:Bg:50:TRP:CD2	5:Bg:305:A1A0P:C39	2.99	0.45
2:Bi:71:VAL:CG2	5:Bi:301:A1A0P:O15	2.65	0.45
3:Cc:61:TRP:CH2	3:Cc:204:ILE:HG22	2.50	0.45
1:Aa:50:TYR:OH	1:Aa:121:THR:HG21	2.16	0.45
1:Ab:50:TYR:OH	1:Ab:121:THR:HG21	2.16	0.45
1:Ad:111:PRO:HA	3:Cf:193:TYR:CE1	2.52	0.45
1:Ah:280:PRO:C	1:Ah:282:VAL:N	2.74	0.45
2:Ba:254:LEU:HD12	5:Cc:303:A1A0P:C33	2.46	0.45
2:Bb:83:PRO:O	2:Bb:87:THR:HG22	2.17	0.45
2:Bf:83:PRO:O	2:Bf:87:THR:HG22	2.17	0.45
2:Bf:213:LEU:HD13	2:Bf:258:VAL:HB	1.98	0.45
2:Bf:234:TRP:CG	5:Bf:307:A1A0P:C7	3.00	0.45
2:Bg:194:TYR:HE1	5:Bg:304:A1A0P:C8	2.30	0.45
5:Bg:308:A1A0P:O5	5:Bh:308:A1A0P:O18	2.35	0.45
2:Bh:181:TYR:HA	2:Bh:184:TYR:CE2	2.51	0.45
3:Cb:37:PHE:O	3:Cb:41:VAL:HG23	2.16	0.45
3:Cc:138:LEU:HD21	3:Cc:235:TYR:HE2	1.82	0.45
3:Cd:138:LEU:HD21	3:Cd:235:TYR:HE2	1.82	0.45
3:Cf:59:SER:HA	3:Cf:62:LYS:HD2	1.99	0.45
3:Ch:138:LEU:HD21	3:Ch:235:TYR:HE2	1.82	0.45
1:Aa:105:ILE:HG13	1:Aa:110:VAL:HG21	1.99	0.45
1:Ad:94:PRO:HB2	2:Bd:74:TRP:CZ3	2.51	0.45
1:Ad:233:ARG:HA	3:Cf:143:MET:HE1	1.98	0.45
1:Ae:50:TYR:OH	1:Ae:121:THR:HG21	2.16	0.45
1:Ag:101:LYS:HA	1:Ag:101:LYS:HD2	1.58	0.45
1:Ag:105:ILE:HG13	1:Ag:110:VAL:HG21	1.99	0.45
1:Ai:105:ILE:HG13	1:Ai:110:VAL:HG21	1.99	0.45
2:Bc:213:LEU:HD13	2:Bc:258:VAL:HB	1.98	0.45
2:Bd:219:MET:HG3	5:Cf:303:A1A0P:C33	2.44	0.45
2:Bf:162:THR:HG22	3:Cd:121:PHE:HE2	1.81	0.45
2:Bf:229:TRP:HH2	5:Bf:307:A1A0P:C34	2.26	0.45
2:Bi:162:THR:HG22	3:Cg:121:PHE:HE2	1.81	0.45
3:Ce:37:PHE:O	3:Ce:41:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:410:ILE:HG21	3:Cd:179:GLU:HG3	1.97	0.45
1:Af:216:LEU:HB2	3:Ce:90:TYR:CE1	2.52	0.45
1:Ah:331:LYS:HB2	1:Ah:331:LYS:HE2	1.39	0.45
1:Ai:101:LYS:HA	1:Ai:101:LYS:HD2	1.58	0.45
2:Ba:242:ALA:N	5:Cc:304:A1A0P:O5	2.50	0.45
2:Bb:162:THR:HG22	3:Cb:121:PHE:HE2	1.81	0.45
2:Bg:243:PRO:HD3	5:Ci:304:A1A0P:C4	2.47	0.45
2:Bh:166:ASP:OD1	2:Bh:166:ASP:N	2.47	0.45
2:Bh:229:TRP:HH2	5:Bh:307:A1A0P:C34	2.25	0.45
2:Bi:83:PRO:O	2:Bi:87:THR:HG22	2.17	0.45
2:Bi:229:TRP:HZ3	5:Bi:308:A1A0P:C34	2.27	0.45
3:Cd:241:ILE:HD11	5:Cd:302:A1A0P:C30	2.45	0.45
3:Cf:37:PHE:CZ	5:Cf:306:A1A0P:C43	3.00	0.45
1:Aa:111:PRO:HA	3:Cc:193:TYR:CE1	2.52	0.45
1:Aa:233:ARG:HA	3:Cc:143:MET:HE1	1.98	0.45
1:Af:105:ILE:HG13	1:Af:110:VAL:HG21	1.99	0.45
1:Ag:233:ARG:HA	3:Ci:143:MET:HE1	1.98	0.45
1:Ah:50:TYR:OH	1:Ah:121:THR:HG21	2.16	0.45
2:Bc:100:GLU:HG3	5:Bc:306:A1A0P:C33	2.47	0.45
2:Bd:48:LYS:HE2	5:Cf:307:A1A0P:O16	2.17	0.45
2:Bf:219:MET:CG	5:Cd:303:A1A0P:C32	2.76	0.45
2:Bg:162:THR:HG22	3:Ci:121:PHE:HE2	1.82	0.45
2:Bh:83:PRO:O	2:Bh:87:THR:HG22	2.17	0.45
2:Bh:211:LEU:HD11	5:Bh:302:A1A0P:C48	2.45	0.45
3:Cd:221:PRO:HA	5:Cd:305:A1A0P:C7	2.46	0.45
1:Ad:167:ARG:HH22	2:Bc:83:PRO:HG2	1.81	0.44
1:Ag:111:PRO:HA	3:Ci:193:TYR:CE1	2.52	0.44
1:Ai:216:LEU:HB2	3:Ch:90:TYR:CE1	2.52	0.44
2:Bc:83:PRO:O	2:Bc:87:THR:HG22	2.17	0.44
2:Bc:101:ILE:HG23	5:Bc:305:A1A0P:C45	2.47	0.44
2:Bh:100:GLU:HG3	5:Bh:306:A1A0P:C33	2.46	0.44
3:Ce:138:LEU:HD21	3:Ce:235:TYR:HE2	1.82	0.44
3:Cf:138:LEU:HD21	3:Cf:235:TYR:HE2	1.82	0.44
3:Cg:59:SER:HA	3:Cg:62:LYS:HD2	1.99	0.44
3:Ch:37:PHE:O	3:Ch:41:VAL:HG23	2.16	0.44
3:Ci:59:SER:HA	3:Ci:62:LYS:HD2	1.99	0.44
1:Ad:54:TRP:CD2	1:Ad:155:LYS:HD3	2.52	0.44
1:Ae:54:TRP:CD2	1:Ae:155:LYS:HD3	2.52	0.44
1:Af:54:TRP:CD2	1:Af:155:LYS:HD3	2.52	0.44
2:Ba:50:TRP:CE2	5:Ba:305:A1A0P:C39	3.00	0.44
2:Ba:83:PRO:O	2:Ba:87:THR:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ba:208:LEU:HB2	5:Cc:303:A1A0P:C7	2.48	0.44
5:Ba:308:A1A0P:C19	5:Bc:307:A1A0P:C35	2.96	0.44
5:Bc:308:A1A0P:C48	3:Cb:229:PHE:CE1	2.98	0.44
5:Bc:308:A1A0P:C25	5:Cb:304:A1A0P:C27	2.96	0.44
2:Bg:83:PRO:O	2:Bg:87:THR:HG22	2.17	0.44
2:Bi:71:VAL:N	5:Bi:301:A1A0P:O15	2.50	0.44
3:Ci:138:LEU:HD21	3:Ci:235:TYR:HE2	1.82	0.44
1:Ab:280:PRO:C	1:Ab:282:VAL:N	2.74	0.44
1:Ac:165:GLU:O	1:Ac:167:ARG:NH1	2.37	0.44
1:Ac:216:LEU:HB2	3:Cb:90:TYR:CE1	2.52	0.44
1:Ac:291:TYR:CD1	1:Ac:409:LEU:HG	2.53	0.44
1:Ad:105:ILE:HG13	1:Ad:110:VAL:HG21	1.99	0.44
1:Ae:280:PRO:C	1:Ae:282:VAL:N	2.74	0.44
1:Ah:94:PRO:HB2	2:Bi:74:TRP:CZ3	2.52	0.44
2:Ba:208:LEU:CD2	5:Cc:303:A1A0P:C34	2.95	0.44
2:Ba:211:LEU:HD12	5:Ba:303:A1A0P:C47	2.47	0.44
3:Cc:59:SER:HA	3:Cc:62:LYS:HD2	1.99	0.44
3:Cg:138:LEU:HD21	3:Cg:235:TYR:HE2	1.82	0.44
1:Aa:54:TRP:CD2	1:Aa:155:LYS:HD3	2.52	0.44
1:Ab:216:LEU:HB2	3:Ca:90:TYR:CE1	2.53	0.44
1:Ac:54:TRP:CD2	1:Ac:155:LYS:HD3	2.52	0.44
5:Ac:503:A1A0P:C26	5:Bc:305:A1A0P:C32	2.90	0.44
1:Ad:234:LYS:HE3	5:Ad:502:A1A0P:O18	2.15	0.44
1:Ah:54:TRP:CD2	1:Ah:155:LYS:HD3	2.52	0.44
1:Ai:291:TYR:CD1	1:Ai:409:LEU:HG	2.53	0.44
2:Bf:166:ASP:OD1	2:Bf:166:ASP:N	2.47	0.44
2:Bh:221:LEU:HB3	2:Bh:222:PRO:HD3	1.98	0.44
2:Bi:234:TRP:CD1	5:Bi:308:A1A0P:C7	3.00	0.44
3:Cd:37:PHE:O	3:Cd:41:VAL:HG23	2.16	0.44
3:Cf:34:PHE:HE2	5:Cf:307:A1A0P:C31	2.30	0.44
3:Ch:87:TRP:O	3:Ch:91:ARG:NH1	2.46	0.44
1:Ac:167:ARG:HH22	2:Bg:83:PRO:HG2	1.82	0.44
1:Ae:382:ASP:HA	1:Ae:383:PRO:HD3	1.85	0.44
2:Ba:96:GLU:HA	5:Ba:307:A1A0P:C29	2.47	0.44
2:Be:221:LEU:HB3	2:Be:222:PRO:HD3	1.98	0.44
3:Cg:240:PHE:CG	5:Cg:308:A1A0P:C38	3.01	0.44
1:Ab:54:TRP:CD2	1:Ab:155:LYS:HD3	2.52	0.44
1:Ad:101:LYS:HD2	1:Ad:101:LYS:HA	1.58	0.44
1:Af:208:ARG:HE	1:Af:208:ARG:HB2	1.64	0.44
1:Ah:291:TYR:CD1	1:Ah:409:LEU:HG	2.53	0.44
2:Ba:243:PRO:HD3	5:Cc:304:A1A0P:C4	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ba:308:A1A0P:O5	5:Bb:309:A1A0P:O18	2.35	0.44
2:Bb:181:TYR:HA	2:Bb:184:TYR:CE2	2.51	0.44
5:Bh:308:A1A0P:C35	5:Bi:307:A1A0P:C19	2.96	0.44
2:Bi:213:LEU:HD13	2:Bi:258:VAL:HB	1.98	0.44
3:Ca:59:SER:HA	3:Ca:62:LYS:HD2	1.99	0.44
3:Ca:237:MET:HB2	5:Ca:308:A1A0P:C44	2.48	0.44
3:Cb:59:SER:HA	3:Cb:62:LYS:HD2	1.99	0.44
3:Cb:61:TRP:CH2	3:Cb:204:ILE:HG22	2.50	0.44
3:Ci:237:MET:CG	5:Ci:302:A1A0P:C42	2.90	0.44
1:Ab:105:ILE:HG13	1:Ab:110:VAL:HG21	1.99	0.44
1:Ac:105:ILE:HG13	1:Ac:110:VAL:HG21	1.99	0.44
1:Af:387:PHE:HE1	1:Af:407:ALA:HB3	1.83	0.44
1:Af:410:ILE:HG21	3:Cf:179:GLU:HG3	2.00	0.44
1:Ag:94:PRO:HB2	2:Bg:74:TRP:CZ3	2.51	0.44
2:Bb:166:ASP:OD1	2:Bb:166:ASP:N	2.47	0.44
5:Bb:307:A1A0P:C25	5:Cc:304:A1A0P:C27	2.96	0.44
2:Bd:106:ILE:HG22	5:Bd:305:A1A0P:C25	2.48	0.44
5:Be:308:A1A0P:C25	5:Cf:304:A1A0P:C27	2.96	0.44
2:Bi:254:LEU:CD1	5:Cg:303:A1A0P:C48	2.96	0.44
3:Cb:138:LEU:HD21	3:Cb:235:TYR:HE2	1.82	0.44
3:Ce:59:SER:HA	3:Ce:62:LYS:HD2	1.99	0.44
3:Ch:240:PHE:CB	5:Ch:302:A1A0P:C41	2.69	0.44
1:Ae:216:LEU:HB2	3:Cd:90:TYR:CE1	2.53	0.44
1:Af:291:TYR:CD1	1:Af:409:LEU:HG	2.53	0.44
1:Ah:105:ILE:HG13	1:Ah:110:VAL:HG21	1.99	0.44
1:Ai:387:PHE:HE1	1:Ai:407:ALA:HB3	1.83	0.44
5:Ba:309:A1A0P:C25	5:Ca:304:A1A0P:C27	2.96	0.44
2:Bb:175:ILE:O	2:Bb:179:LEU:HB3	2.18	0.44
5:Be:307:A1A0P:O5	5:Bf:308:A1A0P:O18	2.35	0.44
2:Bh:254:LEU:CD1	5:Ch:303:A1A0P:C31	2.96	0.44
2:Bh:255:ALA:HB3	3:Ch:43:SER:HB3	2.00	0.44
3:Cb:34:PHE:HE2	5:Cb:307:A1A0P:C31	2.30	0.44
3:Cg:87:TRP:O	3:Cg:91:ARG:NH1	2.46	0.44
1:Aa:291:TYR:CD1	1:Aa:409:LEU:HG	2.53	0.44
1:Ag:280:PRO:C	1:Ag:282:VAL:N	2.74	0.44
1:Ah:381:TYR:CE2	3:Ch:217:LYS:HA	2.53	0.44
2:Ba:162:THR:HG22	3:Cc:121:PHE:HE2	1.82	0.44
2:Bd:71:VAL:CA	5:Bd:302:A1A0P:O15	2.66	0.44
2:Bf:246:TYR:HE2	5:Bf:308:A1A0P:C29	2.30	0.44
3:Ca:61:TRP:CH2	3:Ca:204:ILE:HG22	2.50	0.44
3:Ca:138:LEU:HD21	3:Ca:235:TYR:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cf:206:MET:HE3	3:Cf:206:MET:HB2	1.87	0.44
1:Ac:101:LYS:HD2	1:Ac:101:LYS:HA	1.58	0.43
1:Ae:291:TYR:CD1	1:Ae:409:LEU:HG	2.53	0.43
1:Ai:410:ILE:HG21	3:Ci:179:GLU:HG3	2.00	0.43
2:Be:208:LEU:HD22	5:Ce:303:A1A0P:C7	2.47	0.43
5:Bh:307:A1A0P:C25	5:Ci:304:A1A0P:C27	2.96	0.43
5:Bi:308:A1A0P:C25	5:Ch:304:A1A0P:C27	2.96	0.43
3:Cf:61:TRP:CH2	3:Cf:204:ILE:HG22	2.50	0.43
3:Ci:221:PRO:HA	5:Ci:305:A1A0P:C7	2.48	0.43
3:Ci:237:MET:HB2	5:Ci:308:A1A0P:C44	2.48	0.43
1:Aa:231:THR:HG21	5:Aa:502:A1A0P:C7	2.47	0.43
1:Ab:291:TYR:CD1	1:Ab:409:LEU:HG	2.53	0.43
1:Ac:387:PHE:HE1	1:Ac:407:ALA:HB3	1.83	0.43
1:Ae:410:ILE:HG21	3:Ce:179:GLU:HG3	2.00	0.43
1:Ah:240:LEU:HD21	5:Bg:306:A1A0P:C29	2.48	0.43
2:Ba:255:ALA:HB3	3:Cc:43:SER:HB3	2.00	0.43
2:Bb:100:GLU:HG3	5:Bb:306:A1A0P:C33	2.49	0.43
5:Bd:309:A1A0P:C25	5:Cd:304:A1A0P:C27	2.96	0.43
2:Be:175:ILE:O	2:Be:179:LEU:HB3	2.18	0.43
2:Bf:246:TYR:OH	5:Cd:304:A1A0P:C34	2.63	0.43
2:Bg:175:ILE:O	2:Bg:179:LEU:HB3	2.18	0.43
5:Bg:308:A1A0P:C19	5:Bi:307:A1A0P:C35	2.96	0.43
2:Bh:189:PHE:CG	5:Bh:302:A1A0P:C44	3.01	0.43
3:Cd:221:PRO:CG	5:Cd:305:A1A0P:O3	2.59	0.43
3:Cg:73:ILE:HD11	3:Cg:227:SER:HA	2.00	0.43
3:Cg:237:MET:HA	5:Cg:302:A1A0P:C42	2.48	0.43
3:Ci:73:ILE:HD11	3:Ci:227:SER:HA	2.00	0.43
1:Aa:165:GLU:O	1:Aa:167:ARG:NH1	2.37	0.43
1:Ag:291:TYR:CD1	1:Ag:409:LEU:HG	2.53	0.43
5:Bb:307:A1A0P:C45	3:Cc:229:PHE:HZ	2.30	0.43
2:Be:83:PRO:O	2:Be:87:THR:HG22	2.17	0.43
2:Bh:50:TRP:CE2	5:Bh:304:A1A0P:C39	3.01	0.43
2:Bi:175:ILE:O	2:Bi:179:LEU:HB3	2.18	0.43
3:Cb:47:HIS:O	3:Cb:51:THR:OG1	2.26	0.43
3:Ce:16:ARG:HG2	3:Ce:16:ARG:NH1	2.27	0.43
3:Cg:216:GLY:O	5:Cg:301:A1A0P:O16	2.33	0.43
3:Ci:61:TRP:CH2	3:Ci:205:ARG:HA	2.54	0.43
1:Aa:208:ARG:HE	1:Aa:208:ARG:HB2	1.64	0.43
1:Ab:331:LYS:HB2	1:Ab:331:LYS:HE2	1.39	0.43
1:Ac:410:ILE:HG21	3:Cc:179:GLU:HG3	2.00	0.43
2:Bb:255:ALA:HB3	3:Cb:43:SER:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:229:TRP:HH2	5:Be:308:A1A0P:C34	2.31	0.43
2:Be:255:ALA:HB3	3:Ce:43:SER:HB3	2.00	0.43
2:Bg:255:ALA:HB3	3:Ci:43:SER:HB3	2.01	0.43
1:Ad:291:TYR:CD1	1:Ad:409:LEU:HG	2.53	0.43
2:Ba:175:ILE:O	2:Ba:179:LEU:HB3	2.18	0.43
2:Ba:229:TRP:HH2	5:Ba:309:A1A0P:C34	2.31	0.43
5:Bd:308:A1A0P:C35	5:Be:307:A1A0P:C19	2.96	0.43
5:Bf:307:A1A0P:C25	5:Ce:304:A1A0P:C27	2.96	0.43
1:Ab:94:PRO:HB2	2:Bc:74:TRP:CZ3	2.52	0.43
5:Ac:504:A1A0P:C44	2:Bc:221:LEU:HD21	2.49	0.43
1:Ae:111:PRO:HA	3:Cd:193:TYR:CE1	2.54	0.43
1:Ah:216:LEU:HB2	3:Cg:90:TYR:CE1	2.53	0.43
5:Bb:309:A1A0P:C35	5:Bc:307:A1A0P:C19	2.96	0.43
2:Bc:255:ALA:HB3	3:Ca:43:SER:HB3	2.01	0.43
2:Bd:175:ILE:O	2:Bd:179:LEU:HB3	2.18	0.43
5:Bd:308:A1A0P:C19	5:Bf:308:A1A0P:C35	2.96	0.43
2:Bh:175:ILE:O	2:Bh:179:LEU:HB3	2.18	0.43
2:Bi:220:ILE:HG23	2:Bi:248:PHE:CD1	2.54	0.43
3:Ce:73:ILE:HD11	3:Ce:227:SER:HA	2.00	0.43
3:Ch:59:SER:HA	3:Ch:62:LYS:HD2	1.99	0.43
3:Ch:221:PRO:HA	5:Ch:305:A1A0P:C7	2.48	0.43
1:Aa:331:LYS:HB2	1:Aa:331:LYS:HE2	1.40	0.43
1:Ab:111:PRO:HA	3:Ca:193:TYR:CE1	2.54	0.43
1:Ad:33:HIS:HE1	1:Ad:137:HIS:ND1	2.14	0.43
1:Ad:231:THR:CG2	5:Ad:502:A1A0P:C7	2.96	0.43
1:Ae:101:LYS:HA	1:Ae:101:LYS:HD2	1.58	0.43
1:Ai:94:PRO:HB2	2:Bh:74:TRP:CZ3	2.52	0.43
2:Bd:162:THR:HG22	3:Cf:121:PHE:HE2	1.82	0.43
5:Bg:309:A1A0P:C25	5:Cg:304:A1A0P:C27	2.96	0.43
2:Bh:220:ILE:HG23	2:Bh:248:PHE:CD1	2.54	0.43
5:Bh:307:A1A0P:C45	3:Ci:229:PHE:HZ	2.30	0.43
3:Cb:87:TRP:O	3:Cb:91:ARG:NH1	2.46	0.43
3:Cd:73:ILE:HD11	3:Cd:227:SER:HA	2.00	0.43
3:Cf:61:TRP:CH2	3:Cf:205:ARG:HA	2.54	0.43
1:Ab:165:GLU:O	1:Ab:167:ARG:NH1	2.37	0.43
1:Ad:167:ARG:HH22	2:Bc:83:PRO:CG	2.32	0.43
1:Ae:165:GLU:O	1:Ae:167:ARG:NH1	2.37	0.43
1:Ah:111:PRO:HA	3:Cg:193:TYR:CE1	2.54	0.43
2:Bb:234:TRP:CG	5:Bb:307:A1A0P:C7	3.01	0.43
2:Bc:175:ILE:O	2:Bc:179:LEU:HB3	2.19	0.43
2:Bc:242:ALA:N	5:Ca:304:A1A0P:O5	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bd:154:GLU:HG3	3:Cf:49:MET:SD	2.59	0.43
2:Be:101:ILE:HG23	5:Be:305:A1A0P:C45	2.49	0.43
2:Be:154:GLU:HG3	3:Ce:49:MET:SD	2.59	0.43
2:Bf:154:GLU:HG3	3:Cd:49:MET:SD	2.59	0.43
2:Bf:189:PHE:CD2	5:Bf:302:A1A0P:C44	3.01	0.43
2:Bi:154:GLU:HG3	3:Cg:49:MET:SD	2.59	0.43
3:Cb:237:MET:CG	5:Cb:302:A1A0P:C42	2.92	0.43
3:Cd:59:SER:HA	3:Cd:62:LYS:HD2	1.99	0.43
3:Cd:61:TRP:CH2	3:Cd:205:ARG:HA	2.54	0.43
3:Ce:61:TRP:CH2	3:Ce:205:ARG:HA	2.54	0.43
3:Cg:244:TRP:HD1	5:Cg:302:A1A0P:C4	2.31	0.43
1:Ab:208:ARG:HE	1:Ab:208:ARG:HB2	1.64	0.43
1:Ae:105:ILE:HG13	1:Ae:110:VAL:HG21	1.99	0.43
1:Ah:410:ILE:HG21	3:Ch:179:GLU:HG3	2.00	0.43
2:Bc:229:TRP:HH2	5:Bc:308:A1A0P:C34	2.29	0.43
2:Bd:255:ALA:HB3	3:Cf:43:SER:HB3	2.01	0.43
2:Be:234:TRP:CG	5:Be:308:A1A0P:C7	3.02	0.43
2:Bf:220:ILE:HG23	2:Bf:248:PHE:CD1	2.54	0.43
3:Cf:73:ILE:HD11	3:Cf:227:SER:HA	2.00	0.43
1:Ae:94:PRO:HB2	2:Bf:74:TRP:CZ3	2.52	0.43
2:Ba:220:ILE:HG23	2:Ba:248:PHE:CD1	2.54	0.43
2:Bc:154:GLU:HG3	3:Ca:49:MET:SD	2.59	0.43
2:Bc:208:LEU:HD22	5:Ca:303:A1A0P:C7	2.49	0.43
2:Be:220:ILE:HG23	2:Be:248:PHE:CD1	2.54	0.43
2:Bf:255:ALA:HB3	3:Cd:43:SER:HB3	2.01	0.43
2:Bh:154:GLU:HG3	3:Ch:49:MET:SD	2.59	0.43
5:Bi:308:A1A0P:C46	3:Ch:229:PHE:CE2	3.01	0.43
1:Ab:381:TYR:CE2	3:Cb:217:LYS:HA	2.53	0.42
1:Ab:410:ILE:HG21	3:Cb:179:GLU:HG3	2.00	0.42
1:Ac:336:TYR:HA	1:Ac:337:PRO:HD2	1.88	0.42
2:Be:221:LEU:HD21	5:Be:309:A1A0P:C44	2.48	0.42
2:Bf:71:VAL:HA	5:Bf:301:A1A0P:O15	2.19	0.42
2:Bf:175:ILE:O	2:Bf:179:LEU:HB3	2.18	0.42
2:Bh:208:LEU:CD1	5:Ch:303:A1A0P:C7	2.83	0.42
2:Bi:245:HIS:HB3	3:Cg:50:LEU:HD22	2.01	0.42
3:Ca:241:ILE:HD11	5:Ca:302:A1A0P:C30	2.42	0.42
3:Cc:61:TRP:CH2	3:Cc:205:ARG:HA	2.54	0.42
3:Cd:95:GLY:O	3:Cd:98:VAL:HG12	2.19	0.42
1:Aa:216:LEU:HB2	3:Cc:90:TYR:CE1	2.54	0.42
1:Ae:141:MET:HE2	1:Ae:141:MET:HB2	1.79	0.42
1:Ah:33:HIS:HE1	1:Ah:137:HIS:ND1	2.14	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:50:TRP:CD2	5:Be:304:A1A0P:C39	3.03	0.42
2:Bf:208:LEU:HB2	5:Cd:303:A1A0P:C7	2.48	0.42
3:Ch:95:GLY:O	3:Ch:98:VAL:HG12	2.19	0.42
3:Ci:95:GLY:O	3:Ci:98:VAL:HG12	2.19	0.42
1:Aa:387:PHE:HE1	1:Aa:407:ALA:HB3	1.83	0.42
1:Ae:381:TYR:CE2	3:Ce:217:LYS:HA	2.53	0.42
1:Af:291:TYR:CZ	1:Af:379:ILE:HG23	2.54	0.42
2:Bc:220:ILE:HG23	2:Bc:248:PHE:CD1	2.54	0.42
2:Bg:70:GLY:C	5:Bg:302:A1A0P:O16	2.63	0.42
2:Bg:220:ILE:HG23	2:Bg:248:PHE:CD1	2.54	0.42
3:Cf:95:GLY:O	3:Cf:98:VAL:HG12	2.19	0.42
3:Ch:61:TRP:CH2	3:Ch:205:ARG:HA	2.54	0.42
3:Ch:244:TRP:HD1	5:Ch:302:A1A0P:C4	2.31	0.42
1:Ad:291:TYR:CZ	1:Ad:379:ILE:HG23	2.54	0.42
1:Ag:33:HIS:HE1	1:Ag:137:HIS:ND1	2.14	0.42
1:Ah:208:ARG:HE	1:Ah:208:ARG:HB2	1.64	0.42
2:Ba:181:TYR:HB2	2:Ba:182:PRO:HD3	2.02	0.42
5:Ba:308:A1A0P:C35	5:Bb:309:A1A0P:C19	2.98	0.42
2:Bd:70:GLY:C	5:Bd:302:A1A0P:P14	3.02	0.42
2:Be:242:ALA:N	5:Ce:304:A1A0P:O5	2.53	0.42
2:Bi:219:MET:CB	5:Cg:303:A1A0P:C33	2.97	0.42
3:Ca:89:ARG:HA	3:Ca:89:ARG:HD2	1.81	0.42
3:Cb:73:ILE:HD11	3:Cb:227:SER:HA	2.00	0.42
3:Cb:241:ILE:HD11	5:Cb:302:A1A0P:C30	2.47	0.42
3:Cc:73:ILE:HD11	3:Cc:227:SER:HA	2.00	0.42
3:Ce:95:GLY:O	3:Ce:98:VAL:HG12	2.20	0.42
3:Cf:244:TRP:HD1	5:Cf:302:A1A0P:C4	2.33	0.42
3:Ch:73:ILE:HD11	3:Ch:227:SER:HA	2.00	0.42
1:Ac:291:TYR:CZ	1:Ac:379:ILE:HG23	2.55	0.42
1:Ae:331:LYS:HB2	1:Ae:331:LYS:HE2	1.39	0.42
1:Af:99:ILE:O	1:Af:99:ILE:HG13	2.20	0.42
2:Bb:154:GLU:HG3	3:Cb:49:MET:SD	2.59	0.42
2:Bb:220:ILE:HG23	2:Bb:248:PHE:CD1	2.54	0.42
2:Bc:211:LEU:HD13	5:Bc:302:A1A0P:C48	2.39	0.42
2:Bf:246:TYR:OH	5:Cd:304:A1A0P:C39	2.61	0.42
3:Ca:61:TRP:CH2	3:Ca:205:ARG:HA	2.54	0.42
3:Ca:73:ILE:HD11	3:Ca:227:SER:HA	2.00	0.42
3:Ca:206:MET:HE3	3:Ca:206:MET:HB2	1.87	0.42
3:Cb:95:GLY:O	3:Cb:98:VAL:HG12	2.19	0.42
3:Cg:61:TRP:CH2	3:Cg:205:ARG:HA	2.54	0.42
3:Ch:92:LEU:HD22	3:Ch:94:TRP:CZ3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:291:TYR:CZ	1:Aa:379:ILE:HG23	2.55	0.42
1:Ab:101:LYS:HA	1:Ab:101:LYS:HD2	1.58	0.42
1:Ac:208:ARG:HE	1:Ac:208:ARG:HB2	1.64	0.42
1:Ag:216:LEU:HB2	3:Ci:90:TYR:CE1	2.54	0.42
2:Bb:246:TYR:HE2	5:Bb:309:A1A0P:C29	2.32	0.42
2:Bc:181:TYR:HB2	2:Bc:182:PRO:HD3	2.02	0.42
2:Bd:181:TYR:HB2	2:Bd:182:PRO:HD3	2.02	0.42
2:Bd:245:HIS:HB3	3:Cf:50:LEU:HD22	2.02	0.42
2:Bf:254:LEU:CD1	5:Cd:303:A1A0P:C31	2.97	0.42
3:Cd:61:TRP:CH2	3:Cd:204:ILE:HG22	2.50	0.42
3:Cd:89:ARG:HA	3:Cd:89:ARG:HD2	1.81	0.42
3:Cg:95:GLY:O	3:Cg:98:VAL:HG12	2.19	0.42
3:Ci:92:LEU:HD22	3:Ci:94:TRP:CZ3	2.55	0.42
1:Aa:280:PRO:C	1:Aa:282:VAL:N	2.74	0.42
1:Ae:66:GLU:HG3	1:Ae:127:VAL:HG22	2.02	0.42
1:Af:101:LYS:NZ	6:Af:619:HOH:O	2.53	0.42
1:Ag:165:GLU:O	1:Ag:167:ARG:NH1	2.37	0.42
1:Ai:291:TYR:CZ	1:Ai:379:ILE:HG23	2.55	0.42
2:Bb:181:TYR:HB2	2:Bb:182:PRO:HD3	2.02	0.42
2:Bc:245:HIS:HB3	3:Ca:50:LEU:HD22	2.01	0.42
2:Be:245:HIS:HB3	3:Ce:50:LEU:HD22	2.01	0.42
2:Bh:245:HIS:HB3	3:Ch:50:LEU:HD22	2.01	0.42
3:Ca:92:LEU:HD22	3:Ca:94:TRP:CZ3	2.55	0.42
3:Cf:216:GLY:O	5:Cf:301:A1A0P:O16	2.37	0.42
1:Ag:291:TYR:CZ	1:Ag:379:ILE:HG23	2.55	0.42
5:Ag:503:A1A0P:C35	5:Bh:305:A1A0P:C2	2.98	0.42
1:Ah:291:TYR:CZ	1:Ah:379:ILE:HG23	2.55	0.42
2:Bb:245:HIS:HB3	3:Cb:50:LEU:HD22	2.01	0.42
2:Be:181:TYR:HB2	2:Be:182:PRO:HD3	2.02	0.42
3:Cb:216:GLY:O	5:Cb:301:A1A0P:O16	2.37	0.42
3:Ce:58:TRP:HB2	3:Ce:61:TRP:CD1	2.55	0.42
3:Cg:191:GLN:NE2	6:Cg:408:HOH:O	2.40	0.42
1:Ah:99:ILE:O	1:Ah:99:ILE:HG13	2.20	0.42
1:Ai:99:ILE:O	1:Ai:99:ILE:HG13	2.20	0.42
2:Ba:108:TRP:HZ2	2:Ba:186:ILE:HA	1.85	0.42
2:Ba:154:GLU:HG3	3:Cc:49:MET:SD	2.59	0.42
2:Bb:189:PHE:CD2	5:Bb:302:A1A0P:C44	3.02	0.42
2:Bc:108:TRP:HZ2	2:Bc:186:ILE:HA	1.85	0.42
2:Be:70:GLY:C	5:Be:301:A1A0P:O16	2.63	0.42
2:Bf:208:LEU:CD1	5:Cd:303:A1A0P:C34	2.94	0.42
2:Bg:108:TRP:HZ2	2:Bg:186:ILE:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bg:154:GLU:HG3	3:Ci:49:MET:SD	2.59	0.42
2:Bh:71:VAL:CA	5:Bh:301:A1A0P:O15	2.68	0.42
2:Bi:181:TYR:HB2	2:Bi:182:PRO:HD3	2.02	0.42
3:Ca:95:GLY:O	3:Ca:98:VAL:HG12	2.19	0.42
3:Cb:92:LEU:HD22	3:Cb:94:TRP:CZ3	2.55	0.42
3:Cd:58:TRP:HB2	3:Cd:61:TRP:CD1	2.55	0.42
3:Cg:92:LEU:HD22	3:Cg:94:TRP:CZ3	2.55	0.42
1:Ah:66:GLU:HG3	1:Ah:127:VAL:HG22	2.02	0.42
1:Ah:101:LYS:NZ	6:Ah:620:HOH:O	2.53	0.42
1:Ai:66:GLU:HG3	1:Ai:127:VAL:HG22	2.02	0.42
2:Bf:211:LEU:HD13	5:Bf:302:A1A0P:C48	2.46	0.42
2:Bg:92:PHE:HA	5:Bg:307:A1A0P:C23	2.50	0.42
2:Bg:106:ILE:HG22	5:Bg:305:A1A0P:C25	2.49	0.42
2:Bg:181:TYR:HB2	2:Bg:182:PRO:HD3	2.02	0.42
3:Cb:58:TRP:HB2	3:Cb:61:TRP:CD1	2.55	0.42
3:Cd:92:LEU:HD22	3:Cd:94:TRP:CZ3	2.55	0.42
3:Ci:191:GLN:NE2	6:Ci:408:HOH:O	2.40	0.42
5:Aa:503:A1A0P:C35	5:Bb:305:A1A0P:C2	2.98	0.41
1:Ad:99:ILE:O	1:Ad:99:ILE:HG13	2.20	0.41
1:Ad:280:PRO:C	1:Ad:282:VAL:N	2.75	0.41
1:Ae:184:ASN:OD1	3:Cd:173:PRO:HG2	2.20	0.41
5:Ba:309:A1A0P:C24	5:Ca:304:A1A0P:C24	2.98	0.41
2:Bd:108:TRP:HZ2	2:Bd:186:ILE:HA	1.85	0.41
2:Bd:220:ILE:HG23	2:Bd:248:PHE:CD1	2.54	0.41
2:Bf:108:TRP:HZ2	2:Bf:186:ILE:HA	1.85	0.41
2:Bf:208:LEU:CD2	5:Cd:303:A1A0P:C34	2.95	0.41
2:Bf:245:HIS:HB3	3:Cd:50:LEU:HD22	2.01	0.41
3:Ca:58:TRP:HB2	3:Ca:61:TRP:CD1	2.55	0.41
3:Cb:61:TRP:CH2	3:Cb:205:ARG:HA	2.54	0.41
3:Cg:58:TRP:HB2	3:Cg:61:TRP:CD1	2.55	0.41
3:Ch:58:TRP:HB2	3:Ch:61:TRP:CD1	2.55	0.41
1:Ab:66:GLU:HG3	1:Ab:127:VAL:HG22	2.02	0.41
1:Ac:66:GLU:HG3	1:Ac:127:VAL:HG22	2.02	0.41
1:Ad:216:LEU:HB2	3:Cf:90:TYR:CE1	2.54	0.41
1:Ag:99:ILE:O	1:Ag:99:ILE:HG13	2.20	0.41
1:Ag:101:LYS:NZ	6:Ag:620:HOH:O	2.53	0.41
1:Aa:66:GLU:HG3	1:Aa:127:VAL:HG22	2.02	0.41
1:Aa:101:LYS:NZ	6:Aa:620:HOH:O	2.53	0.41
1:Aa:231:THR:OG1	5:Aa:502:A1A0P:O5	2.35	0.41
1:Af:94:PRO:HB2	2:Be:74:TRP:CZ3	2.52	0.41
1:Ai:316:GLU:HG3	1:Ai:325:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ba:219:MET:HB2	5:Cc:303:A1A0P:C33	2.50	0.41
5:Bb:307:A1A0P:C24	5:Cc:304:A1A0P:C24	2.98	0.41
2:Bg:234:TRP:CG	5:Bg:309:A1A0P:C7	3.03	0.41
2:Bh:181:TYR:HB2	2:Bh:182:PRO:HD3	2.02	0.41
3:Cf:92:LEU:HD22	3:Cf:94:TRP:CZ3	2.55	0.41
1:Ae:208:ARG:HE	1:Ae:208:ARG:HB2	1.64	0.41
1:Ae:291:TYR:CZ	1:Ae:379:ILE:HG23	2.55	0.41
1:Ae:316:GLU:HG3	1:Ae:325:LEU:HG	2.02	0.41
1:Af:280:PRO:C	1:Af:282:VAL:N	2.74	0.41
5:Af:503:A1A0P:C35	5:Bf:305:A1A0P:C2	2.98	0.41
1:Ag:293:VAL:HG21	1:Ag:413:PHE:HE1	1.86	0.41
5:Be:308:A1A0P:C24	5:Cf:304:A1A0P:C24	2.98	0.41
2:Bi:255:ALA:HB3	3:Cg:43:SER:HB3	2.01	0.41
3:Ce:92:LEU:HD22	3:Ce:94:TRP:CZ3	2.55	0.41
1:Aa:293:VAL:HG21	1:Aa:413:PHE:HE1	1.85	0.41
1:Ab:291:TYR:CZ	1:Ab:379:ILE:HG23	2.55	0.41
1:Ad:66:GLU:HG3	1:Ad:127:VAL:HG22	2.02	0.41
1:Ag:352:SER:O	1:Ag:353:PRO:C	2.64	0.41
1:Ah:184:ASN:OD1	3:Cg:173:PRO:HG2	2.20	0.41
1:Ai:208:ARG:HE	1:Ai:208:ARG:HB2	1.64	0.41
2:Ba:108:TRP:HB3	5:Ba:306:A1A0P:C38	2.51	0.41
5:Ba:309:A1A0P:C48	3:Ca:229:PHE:CE1	3.01	0.41
5:Be:307:A1A0P:C35	5:Bf:308:A1A0P:C19	2.98	0.41
2:Bf:181:TYR:HB2	2:Bf:182:PRO:HD3	2.02	0.41
3:Ci:58:TRP:HB2	3:Ci:61:TRP:CD1	2.55	0.41
1:Aa:99:ILE:O	1:Aa:99:ILE:HG13	2.20	0.41
1:Ab:68:LYS:HG2	1:Ab:125:ARG:HG3	2.03	0.41
1:Ac:94:PRO:HB2	2:Bb:74:TRP:CZ3	2.52	0.41
1:Af:293:VAL:HG21	1:Af:413:PHE:HE1	1.85	0.41
2:Bb:208:LEU:HB2	5:Cb:303:A1A0P:C7	2.51	0.41
5:Bd:309:A1A0P:C24	5:Cd:304:A1A0P:C24	2.98	0.41
2:Bf:189:PHE:CG	5:Bf:302:A1A0P:C44	3.04	0.41
2:Bg:245:HIS:HB3	3:Ci:50:LEU:HD22	2.01	0.41
5:Bg:308:A1A0P:C35	5:Bh:308:A1A0P:C19	2.98	0.41
2:Bh:246:TYR:HE2	5:Bh:308:A1A0P:C30	2.34	0.41
2:Bi:166:ASP:OD1	2:Bi:166:ASP:N	2.47	0.41
3:Ca:249:ARG:HH21	5:Ca:303:A1A0P:C35	2.33	0.41
3:Cc:92:LEU:HD22	3:Cc:94:TRP:CZ3	2.55	0.41
3:Cc:95:GLY:O	3:Cc:98:VAL:HG12	2.19	0.41
3:Ch:241:ILE:HD11	5:Ch:302:A1A0P:C30	2.46	0.41
1:Ac:68:LYS:HG2	1:Ac:125:ARG:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:167:ARG:HH22	2:Bg:83:PRO:CG	2.33	0.41
1:Ac:316:GLU:HG3	1:Ac:325:LEU:HG	2.02	0.41
1:Ad:352:SER:O	1:Ad:353:PRO:C	2.64	0.41
1:Ad:382:ASP:HA	1:Ad:383:PRO:HD3	1.85	0.41
1:Ae:336:TYR:HA	1:Ae:337:PRO:HD2	1.88	0.41
1:Ag:66:GLU:HG3	1:Ag:127:VAL:HG22	2.02	0.41
2:Ba:245:HIS:HB3	3:Cc:50:LEU:HD22	2.01	0.41
2:Bb:208:LEU:HD22	5:Cb:303:A1A0P:C7	2.51	0.41
2:Bd:254:LEU:CD1	5:Cf:303:A1A0P:C48	2.98	0.41
3:Cd:240:PHE:HB2	5:Cd:302:A1A0P:C40	2.37	0.41
1:Ad:68:LYS:HG2	1:Ad:125:ARG:HG3	2.03	0.41
1:Ad:387:PHE:HE1	1:Ad:407:ALA:HB3	1.83	0.41
1:Af:316:GLU:HG3	1:Af:325:LEU:HG	2.02	0.41
5:Ah:503:A1A0P:C35	5:Bg:306:A1A0P:C2	2.98	0.41
1:Ai:68:LYS:HG2	1:Ai:125:ARG:HG3	2.03	0.41
5:Ai:503:A1A0P:C35	5:Bi:305:A1A0P:C2	2.98	0.41
2:Ba:221:LEU:HD21	5:Ba:310:A1A0P:C44	2.50	0.41
2:Bc:65:VAL:HG13	2:Bc:175:ILE:HD12	2.03	0.41
5:Bg:309:A1A0P:C24	5:Cg:304:A1A0P:C24	2.98	0.41
5:Bi:308:A1A0P:C24	5:Ch:304:A1A0P:C24	2.98	0.41
3:Cc:58:TRP:HB2	3:Cc:61:TRP:CD1	2.55	0.41
3:Cc:240:PHE:CB	5:Cc:308:A1A0P:C38	2.99	0.41
1:Aa:68:LYS:HG2	1:Aa:125:ARG:HG3	2.03	0.41
1:Aa:316:GLU:HG3	1:Aa:325:LEU:HG	2.02	0.41
1:Aa:336:TYR:HA	1:Aa:337:PRO:HD2	1.88	0.41
1:Ab:184:ASN:OD1	3:Ca:173:PRO:HG2	2.19	0.41
5:Ab:503:A1A0P:C26	5:Ba:306:A1A0P:C30	2.99	0.41
1:Ac:101:LYS:NZ	6:Ac:620:HOH:O	2.53	0.41
1:Ac:382:ASP:HA	1:Ac:383:PRO:HD3	1.85	0.41
1:Ae:99:ILE:O	1:Ae:99:ILE:HG13	2.20	0.41
5:Ae:503:A1A0P:C26	5:Bd:306:A1A0P:C30	2.99	0.41
1:Af:68:LYS:HG2	1:Af:125:ARG:HG3	2.03	0.41
1:Ah:68:LYS:HG2	1:Ah:125:ARG:HG3	2.03	0.41
1:Ai:141:MET:HE2	1:Ai:141:MET:HB2	1.79	0.41
1:Ai:184:ASN:OD1	3:Ch:173:PRO:HG2	2.21	0.41
1:Ai:293:VAL:HG21	1:Ai:413:PHE:HE1	1.85	0.41
1:Ai:352:SER:O	1:Ai:353:PRO:C	2.64	0.41
2:Ba:246:TYR:HE2	5:Ba:308:A1A0P:C29	2.34	0.41
2:Bb:70:GLY:C	5:Bb:301:A1A0P:O16	2.64	0.41
2:Bb:108:TRP:HZ2	2:Bb:186:ILE:HA	1.85	0.41
2:Bc:234:TRP:CG	5:Bc:308:A1A0P:C7	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bc:308:A1A0P:C24	5:Cb:304:A1A0P:C24	2.98	0.41
2:Bf:65:VAL:HG13	2:Bf:175:ILE:HD12	2.03	0.41
2:Bf:211:LEU:HD12	5:Bf:302:A1A0P:C47	2.51	0.41
2:Bi:108:TRP:HZ2	2:Bi:186:ILE:HA	1.85	0.41
2:Bi:215:VAL:HG22	5:Bi:302:A1A0P:C47	2.47	0.41
3:Ca:164:TYR:HB3	3:Ca:165:PRO:HD3	2.03	0.41
3:Cb:240:PHE:CB	5:Cb:308:A1A0P:C38	2.99	0.41
3:Cc:34:PHE:HE2	5:Cc:307:A1A0P:C31	2.33	0.41
3:Cc:206:MET:HE3	3:Cc:206:MET:HB2	1.87	0.41
3:Cg:61:TRP:CH2	3:Cg:204:ILE:HG22	2.50	0.41
1:Ab:336:TYR:HA	1:Ab:337:PRO:HD2	1.88	0.41
1:Ab:352:SER:O	1:Ab:353:PRO:C	2.64	0.41
1:Ac:99:ILE:O	1:Ac:99:ILE:HG13	2.20	0.41
1:Ag:387:PHE:HE1	1:Ag:407:ALA:HB3	1.83	0.41
5:Ag:503:A1A0P:C26	5:Bh:305:A1A0P:C30	2.99	0.41
5:Bd:308:A1A0P:C7	5:Be:307:A1A0P:C7	2.99	0.41
5:Bh:307:A1A0P:C24	5:Bi:304:A1A0P:C24	2.99	0.41
3:Ce:206:MET:HE3	3:Ce:206:MET:HB2	1.86	0.41
1:Aa:352:SER:O	1:Aa:353:PRO:C	2.64	0.40
1:Ab:99:ILE:O	1:Ab:99:ILE:HG13	2.20	0.40
1:Ab:387:PHE:HE1	1:Ab:407:ALA:HB3	1.83	0.40
1:Ad:165:GLU:O	1:Ad:167:ARG:NH1	2.37	0.40
1:Ae:68:LYS:HG2	1:Ae:125:ARG:HG3	2.03	0.40
1:Ae:387:PHE:HE1	1:Ae:407:ALA:HB3	1.83	0.40
1:Ah:293:VAL:HG21	1:Ah:413:PHE:HE1	1.86	0.40
2:Bd:215:VAL:HG22	5:Bd:303:A1A0P:C47	2.49	0.40
2:Be:65:VAL:HG13	2:Be:175:ILE:HD12	2.03	0.40
2:Be:71:VAL:CG2	5:Be:301:A1A0P:O15	2.69	0.40
2:Bh:108:TRP:HZ2	2:Bh:186:ILE:HA	1.85	0.40
2:Bi:63:LEU:HD11	5:Bi:301:A1A0P:C39	2.50	0.40
3:Cb:206:MET:HE3	3:Cb:206:MET:HB2	1.86	0.40
3:Bi:237:MET:CE	5:Bi:302:A1A0P:C33	2.99	0.40
1:Aa:237:MET:SD	5:Aa:503:A1A0P:C20	3.08	0.40
1:Aa:346:LEU:HD12	1:Aa:346:LEU:HA	1.93	0.40
5:Aa:503:A1A0P:C26	5:Bb:305:A1A0P:C30	2.99	0.40
1:Ad:101:LYS:NZ	6:Ad:620:HOH:O	2.53	0.40
1:Ae:231:THR:OG1	5:Ae:502:A1A0P:O5	2.37	0.40
1:Ah:316:GLU:HG3	1:Ah:325:LEU:HG	2.02	0.40
2:Be:194:TYR:HE1	5:Be:303:A1A0P:C8	2.33	0.40
2:Bg:71:VAL:CG2	5:Bg:302:A1A0P:O15	2.70	0.40
5:Bg:308:A1A0P:C7	5:Bh:308:A1A0P:C7	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cc:164:TYR:HB3	3:Cc:165:PRO:HD3	2.03	0.40
5:Ch:302:A1A0P:C19	5:Ci:308:A1A0P:C35	2.99	0.40
1:Aa:380:ILE:HD12	1:Aa:380:ILE:HA	1.94	0.40
1:Ab:316:GLU:HG3	1:Ab:325:LEU:HG	2.02	0.40
5:Ab:503:A1A0P:C35	5:Ba:306:A1A0P:C2	2.98	0.40
1:Ac:184:ASN:OD1	3:Cb:173:PRO:HG2	2.21	0.40
1:Ae:231:THR:CG2	5:Ae:502:A1A0P:C7	2.99	0.40
1:Af:66:GLU:HG3	1:Af:127:VAL:HG22	2.02	0.40
1:Ag:316:GLU:HG3	1:Ag:325:LEU:HG	2.02	0.40
1:Ah:292:ARG:O	1:Ah:295:GLY:HA3	2.22	0.40
1:Ah:336:TYR:HA	1:Ah:337:PRO:HD2	1.88	0.40
1:Ai:292:ARG:O	1:Ai:295:GLY:HA3	2.22	0.40
2:Bb:65:VAL:HG13	2:Bb:175:ILE:HD12	2.03	0.40
2:Bb:71:VAL:CG2	5:Bb:301:A1A0P:O15	2.70	0.40
2:Be:93:LEU:O	2:Be:96:GLU:HG2	2.22	0.40
2:Be:108:TRP:HZ2	2:Be:186:ILE:HA	1.85	0.40
5:Bg:306:A1A0P:C24	3:Cg:145:SER:HB3	2.51	0.40
3:Cd:191:GLN:NE2	6:Cd:408:HOH:O	2.40	0.40
3:Cf:58:TRP:HB2	3:Cf:61:TRP:CD1	2.55	0.40
1:Ad:331:LYS:HB2	1:Ad:331:LYS:HE2	1.39	0.40
5:Ad:503:A1A0P:C26	5:Be:305:A1A0P:C30	2.99	0.40
1:Af:184:ASN:OD1	3:Ce:173:PRO:HG2	2.21	0.40
1:Ai:101:LYS:NZ	6:Ai:620:HOH:O	2.53	0.40
2:Ba:65:VAL:HG13	2:Ba:175:ILE:HD12	2.03	0.40
5:Cg:302:A1A0P:C19	5:Ch:308:A1A0P:C35	2.99	0.40
1:Ac:293:VAL:HG21	1:Ac:413:PHE:HE1	1.86	0.40
1:Ac:352:SER:O	1:Ac:353:PRO:C	2.64	0.40
1:Ad:231:THR:CG2	5:Ad:502:A1A0P:C34	3.00	0.40
1:Ad:292:ARG:O	1:Ad:295:GLY:HA3	2.22	0.40
1:Af:331:LYS:HB2	1:Af:331:LYS:HE2	1.39	0.40
1:Ah:308:GLY:O	1:Ah:309:ASN:ND2	2.55	0.40
2:Ba:211:LEU:HD13	5:Ba:303:A1A0P:C48	2.42	0.40
2:Be:106:ILE:HG22	5:Be:304:A1A0P:C25	2.52	0.40
5:Bf:307:A1A0P:C24	5:Ce:304:A1A0P:C24	2.98	0.40
3:Cd:164:TYR:HB3	3:Cd:165:PRO:HD3	2.03	0.40
3:Ci:206:MET:HE3	3:Ci:206:MET:HB2	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Aa	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ab	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ac	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ad	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ae	380/382 (100%)	358 (94%)	19 (5%)	3 (1%)	16	54
1	Af	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ag	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ah	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
1	Ai	380/382 (100%)	359 (94%)	18 (5%)	3 (1%)	16	54
2	Ba	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
2	Bb	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
2	Bc	237/239 (99%)	229 (97%)	8 (3%)	0	100	100
2	Bd	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
2	Be	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
2	Bf	237/239 (99%)	229 (97%)	8 (3%)	0	100	100
2	Bg	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
2	Bh	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
2	Bi	237/239 (99%)	228 (96%)	9 (4%)	0	100	100
3	Ca	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Cb	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Cc	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Cd	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Ce	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Cf	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Cg	239/241 (99%)	229 (96%)	10 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Ch	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
3	Ci	239/241 (99%)	229 (96%)	10 (4%)	0	100	100
All	All	7704/7758 (99%)	7345 (95%)	332 (4%)	27 (0%)	31	67

All (27) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	Aa	281	THR
1	Aa	294	PRO
1	Ab	281	THR
1	Ab	294	PRO
1	Ac	281	THR
1	Ac	294	PRO
1	Ad	281	THR
1	Ad	294	PRO
1	Ae	281	THR
1	Ae	294	PRO
1	Af	281	THR
1	Af	294	PRO
1	Ag	281	THR
1	Ag	294	PRO
1	Ah	281	THR
1	Ah	294	PRO
1	Ai	281	THR
1	Ai	294	PRO
1	Aa	147	GLY
1	Ab	147	GLY
1	Ac	147	GLY
1	Ad	147	GLY
1	Ae	147	GLY
1	Af	147	GLY
1	Ag	147	GLY
1	Ah	147	GLY
1	Ai	147	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Aa	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ab	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ac	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ad	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ae	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Af	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ag	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ah	323/323 (100%)	298 (92%)	25 (8%)	12	32
1	Ai	323/323 (100%)	298 (92%)	25 (8%)	12	32
2	Ba	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bb	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bc	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bd	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Be	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bf	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bg	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bh	202/202 (100%)	200 (99%)	2 (1%)	68	78
2	Bi	202/202 (100%)	200 (99%)	2 (1%)	68	78
3	Ca	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Cb	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Cc	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Cd	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Ce	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Cf	206/206 (100%)	203 (98%)	3 (2%)	57	72
3	Cg	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Ch	206/206 (100%)	204 (99%)	2 (1%)	68	78
3	Ci	206/206 (100%)	203 (98%)	3 (2%)	57	72
All	All	6579/6579 (100%)	6316 (96%)	263 (4%)	29	49

All (263) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Aa	33	HIS
1	Aa	37	SER
1	Aa	46	THR
1	Aa	50	TYR
1	Aa	123	ASP
1	Aa	141	MET
1	Aa	277	LEU
1	Aa	285	LYS
1	Aa	293	VAL
1	Aa	298	MET
1	Aa	299	ARG
1	Aa	301	LYS
1	Aa	305	THR
1	Aa	309	ASN
1	Aa	310	SER
1	Aa	312	ILE
1	Aa	316	GLU
1	Aa	319	THR
1	Aa	328	ASP
1	Aa	331	LYS
1	Aa	344	ASP
1	Aa	347	SER
1	Aa	367	SER
1	Aa	379	ILE
1	Aa	404	GLN
1	Ab	33	HIS
1	Ab	37	SER
1	Ab	46	THR
1	Ab	50	TYR
1	Ab	123	ASP
1	Ab	141	MET
1	Ab	277	LEU
1	Ab	285	LYS
1	Ab	293	VAL
1	Ab	298	MET
1	Ab	299	ARG
1	Ab	301	LYS
1	Ab	305	THR
1	Ab	309	ASN
1	Ab	310	SER
1	Ab	312	ILE
1	Ab	316	GLU
1	Ab	319	THR

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Mol	Chain	Res	Type
1	Ab	328	ASP
1	Ab	331	LYS
1	Ab	344	ASP
1	Ab	347	SER
1	Ab	367	SER
1	Ab	379	ILE
1	Ab	404	GLN
1	Ac	33	HIS
1	Ac	37	SER
1	Ac	46	THR
1	Ac	50	TYR
1	Ac	123	ASP
1	Ac	141	MET
1	Ac	277	LEU
1	Ac	285	LYS
1	Ac	293	VAL
1	Ac	298	MET
1	Ac	299	ARG
1	Ac	301	LYS
1	Ac	305	THR
1	Ac	309	ASN
1	Ac	310	SER
1	Ac	312	ILE
1	Ac	316	GLU
1	Ac	319	THR
1	Ac	328	ASP
1	Ac	331	LYS
1	Ac	344	ASP
1	Ac	347	SER
1	Ac	367	SER
1	Ac	379	ILE
1	Ac	404	GLN
1	Ad	33	HIS
1	Ad	37	SER
1	Ad	46	THR
1	Ad	50	TYR
1	Ad	123	ASP
1	Ad	141	MET
1	Ad	277	LEU
1	Ad	285	LYS
1	Ad	293	VAL
1	Ad	298	MET

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Mol	Chain	Res	Type
1	Ad	299	ARG
1	Ad	301	LYS
1	Ad	305	THR
1	Ad	309	ASN
1	Ad	310	SER
1	Ad	312	ILE
1	Ad	316	GLU
1	Ad	319	THR
1	Ad	328	ASP
1	Ad	331	LYS
1	Ad	344	ASP
1	Ad	347	SER
1	Ad	367	SER
1	Ad	379	ILE
1	Ad	404	GLN
1	Ae	33	HIS
1	Ae	37	SER
1	Ae	46	THR
1	Ae	50	TYR
1	Ae	123	ASP
1	Ae	141	MET
1	Ae	277	LEU
1	Ae	285	LYS
1	Ae	293	VAL
1	Ae	298	MET
1	Ae	299	ARG
1	Ae	301	LYS
1	Ae	305	THR
1	Ae	309	ASN
1	Ae	310	SER
1	Ae	312	ILE
1	Ae	316	GLU
1	Ae	319	THR
1	Ae	328	ASP
1	Ae	331	LYS
1	Ae	344	ASP
1	Ae	347	SER
1	Ae	367	SER
1	Ae	379	ILE
1	Ae	404	GLN
1	Af	33	HIS
1	Af	37	SER

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Mol	Chain	Res	Type
1	Af	46	THR
1	Af	50	TYR
1	Af	123	ASP
1	Af	141	MET
1	Af	277	LEU
1	Af	285	LYS
1	Af	293	VAL
1	Af	298	MET
1	Af	299	ARG
1	Af	301	LYS
1	Af	305	THR
1	Af	309	ASN
1	Af	310	SER
1	Af	312	ILE
1	Af	316	GLU
1	Af	319	THR
1	Af	328	ASP
1	Af	331	LYS
1	Af	344	ASP
1	Af	347	SER
1	Af	367	SER
1	Af	379	ILE
1	Af	404	GLN
1	Ag	33	HIS
1	Ag	37	SER
1	Ag	46	THR
1	Ag	50	TYR
1	Ag	123	ASP
1	Ag	141	MET
1	Ag	277	LEU
1	Ag	285	LYS
1	Ag	293	VAL
1	Ag	298	MET
1	Ag	299	ARG
1	Ag	301	LYS
1	Ag	305	THR
1	Ag	309	ASN
1	Ag	310	SER
1	Ag	312	ILE
1	Ag	316	GLU
1	Ag	319	THR
1	Ag	328	ASP

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Mol	Chain	Res	Type
1	Ag	331	LYS
1	Ag	344	ASP
1	Ag	347	SER
1	Ag	367	SER
1	Ag	379	ILE
1	Ag	404	GLN
1	Ah	33	HIS
1	Ah	37	SER
1	Ah	46	THR
1	Ah	50	TYR
1	Ah	123	ASP
1	Ah	141	MET
1	Ah	277	LEU
1	Ah	285	LYS
1	Ah	293	VAL
1	Ah	298	MET
1	Ah	299	ARG
1	Ah	301	LYS
1	Ah	305	THR
1	Ah	309	ASN
1	Ah	310	SER
1	Ah	312	ILE
1	Ah	316	GLU
1	Ah	319	THR
1	Ah	328	ASP
1	Ah	331	LYS
1	Ah	344	ASP
1	Ah	347	SER
1	Ah	367	SER
1	Ah	379	ILE
1	Ah	404	GLN
1	Ai	33	HIS
1	Ai	37	SER
1	Ai	46	THR
1	Ai	50	TYR
1	Ai	123	ASP
1	Ai	141	MET
1	Ai	277	LEU
1	Ai	285	LYS
1	Ai	293	VAL
1	Ai	298	MET
1	Ai	299	ARG

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Mol	Chain	Res	Type
1	Ai	301	LYS
1	Ai	305	THR
1	Ai	309	ASN
1	Ai	310	SER
1	Ai	312	ILE
1	Ai	316	GLU
1	Ai	319	THR
1	Ai	328	ASP
1	Ai	331	LYS
1	Ai	344	ASP
1	Ai	347	SER
1	Ai	367	SER
1	Ai	379	ILE
1	Ai	404	GLN
2	Ba	154	GLU
2	Ba	262	LEU
2	Bb	154	GLU
2	Bb	262	LEU
2	Bc	154	GLU
2	Bc	262	LEU
2	Bd	154	GLU
2	Bd	262	LEU
2	Be	154	GLU
2	Be	262	LEU
2	Bf	154	GLU
2	Bf	262	LEU
2	Bg	154	GLU
2	Bg	262	LEU
2	Bh	154	GLU
2	Bh	262	LEU
2	Bi	154	GLU
2	Bi	262	LEU
3	Ca	43	SER
3	Ca	66	LEU
3	Cb	43	SER
3	Cb	66	LEU
3	Cc	43	SER
3	Cc	66	LEU
3	Cd	43	SER
3	Cd	66	LEU
3	Ce	43	SER
3	Ce	66	LEU

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Mol	Chain	Res	Type
3	Cf	43	SER
3	Cf	66	LEU
3	Cf	209	LYS
3	Cg	43	SER
3	Cg	66	LEU
3	Ch	43	SER
3	Ch	66	LEU
3	Ci	43	SER
3	Ci	66	LEU
3	Ci	209	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (59) such sidechains are listed below:

Mol	Chain	Res	Type
1	Aa	38	GLN
1	Aa	72	HIS
1	Aa	145	GLN
1	Aa	309	ASN
1	Ab	38	GLN
1	Ab	145	GLN
1	Ab	309	ASN
1	Ac	38	GLN
1	Ac	72	HIS
1	Ac	145	GLN
1	Ac	309	ASN
1	Ad	38	GLN
1	Ad	72	HIS
1	Ad	145	GLN
1	Ad	309	ASN
1	Ae	38	GLN
1	Ae	72	HIS
1	Ae	145	GLN
1	Ae	309	ASN
1	Af	38	GLN
1	Af	72	HIS
1	Af	145	GLN
1	Af	309	ASN
1	Ag	38	GLN
1	Ag	72	HIS
1	Ag	145	GLN
1	Ag	309	ASN
1	Ah	38	GLN

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Mol	Chain	Res	Type
1	Ah	72	HIS
1	Ah	145	GLN
1	Ah	309	ASN
1	Ai	38	GLN
1	Ai	72	HIS
1	Ai	145	GLN
1	Ai	309	ASN
2	Bb	173	HIS
2	Bb	227	ASN
2	Bc	173	HIS
2	Bc	227	ASN
2	Be	173	HIS
2	Be	227	ASN
2	Bf	173	HIS
2	Bf	227	ASN
2	Bh	173	HIS
2	Bh	227	ASN
2	Bh	245	HIS
2	Bi	173	HIS
2	Bi	227	ASN
3	Ca	181	ASN
3	Ca	194	ASN
3	Cb	181	ASN
3	Cc	181	ASN
3	Cd	181	ASN
3	Ce	181	ASN
3	Cf	181	ASN
3	Cg	181	ASN
3	Cg	194	ASN
3	Ch	181	ASN
3	Ci	181	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 183 ligands modelled in this entry, 12 are monoatomic - leaving 171 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	A1A0P	Ba	307	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Bg	309	-	47,47,47	0.77	0	50,52,52	1.22	2 (4%)
5	A1A0P	Bf	307	-	47,47,47	0.77	0	50,52,52	1.21	2 (4%)
5	A1A0P	Ch	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Ah	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Ae	503	-	47,47,47	0.29	0	50,52,52	0.35	0
5	A1A0P	Bd	302	-	47,47,47	0.30	0	50,52,52	0.33	0
5	A1A0P	Af	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Bh	305	-	47,47,47	0.31	0	50,52,52	0.42	0
5	A1A0P	Ca	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Cg	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Bc	306	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Bf	304	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Bh	308	-	47,47,47	0.82	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Ag	504	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Cc	304	-	47,47,47	0.31	0	50,52,52	0.50	0
5	A1A0P	Ai	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Ai	504	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Cb	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Ce	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Ce	307	-	47,47,47	0.41	0	50,52,52	0.82	2 (4%)
5	A1A0P	Bc	305	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Ch	301	-	47,47,47	0.36	0	50,52,52	0.77	3 (6%)
5	A1A0P	Cc	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	A1A0P	Ch	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Cb	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Ce	301	-	47,47,47	0.35	0	50,52,52	0.77	3 (6%)
5	A1A0P	Cf	308	-	47,47,47	0.67	1 (2%)	50,52,52	0.44	0
5	A1A0P	Bf	301	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Ah	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Be	307	-	47,47,47	0.81	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Ci	303	-	47,47,47	0.31	0	50,52,52	0.34	0
5	A1A0P	Cf	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Ce	304	-	47,47,47	0.31	0	50,52,52	0.50	0
5	A1A0P	Bb	306	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Cc	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Cb	301	-	47,47,47	0.36	0	50,52,52	0.77	3 (6%)
5	A1A0P	Ad	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Bg	303	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Bc	303	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Bh	307	-	47,47,47	0.77	0	50,52,52	1.22	2 (4%)
5	A1A0P	Cd	307	-	47,47,47	0.41	0	50,52,52	0.82	2 (4%)
5	A1A0P	Cc	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Cc	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Bd	306	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Ah	504	-	47,47,47	0.38	0	50,52,52	0.51	1 (2%)
5	A1A0P	Bb	307	-	47,47,47	0.77	0	50,52,52	1.22	2 (4%)
5	A1A0P	Bc	304	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Ci	304	-	47,47,47	0.31	0	50,52,52	0.50	0
5	A1A0P	Cb	307	-	47,47,47	0.41	0	50,52,52	0.82	2 (4%)
5	A1A0P	Cf	303	-	47,47,47	0.31	0	50,52,52	0.34	0
5	A1A0P	Bb	308	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Be	305	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Aa	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Cg	303	-	47,47,47	0.30	0	50,52,52	0.34	0
5	A1A0P	Bb	305	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Cg	302	-	47,47,47	0.46	0	50,52,52	0.73	1 (2%)
5	A1A0P	Ci	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Bg	308	-	47,47,47	0.81	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Ad	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Ab	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Ch	304	-	47,47,47	0.31	0	50,52,52	0.49	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	A1A0P	Ac	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Ag	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Bd	305	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Bf	305	-	47,47,47	0.31	0	50,52,52	0.42	0
5	A1A0P	Bi	307	-	47,47,47	0.82	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Ce	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Ch	303	-	47,47,47	0.31	0	50,52,52	0.34	0
5	A1A0P	Bc	307	-	47,47,47	0.81	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Cc	307	-	47,47,47	0.41	0	50,52,52	0.82	2 (4%)
5	A1A0P	Ca	307	-	47,47,47	0.41	0	50,52,52	0.82	2 (4%)
5	A1A0P	Ce	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Bf	302	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Be	301	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Bd	307	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Be	304	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Cg	301	-	47,47,47	0.36	0	50,52,52	0.77	3 (6%)
5	A1A0P	Ba	302	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Cb	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Cf	301	-	47,47,47	0.35	0	50,52,52	0.77	3 (6%)
5	A1A0P	Be	306	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Ca	304	-	47,47,47	0.31	0	50,52,52	0.49	0
5	A1A0P	Cd	304	-	47,47,47	0.31	0	50,52,52	0.49	0
5	A1A0P	Bd	303	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Ci	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Ch	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Af	504	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Bc	301	-	47,47,47	0.30	0	50,52,52	0.33	0
5	A1A0P	Bb	309	-	47,47,47	0.82	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Bg	305	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Bg	307	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Bi	306	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Ae	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Bf	308	-	47,47,47	0.82	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Bh	304	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Ba	306	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Bb	302	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Ba	304	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Ac	504	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	A1A0P	Ca	301	-	47,47,47	0.36	0	50,52,52	0.78	3 (6%)
5	A1A0P	Cd	301	-	47,47,47	0.36	0	50,52,52	0.78	3 (6%)
5	A1A0P	Ci	307	-	47,47,47	0.41	0	50,52,52	0.83	2 (4%)
5	A1A0P	Cb	304	-	47,47,47	0.31	0	50,52,52	0.49	0
5	A1A0P	Bh	306	-	47,47,47	0.33	0	50,52,52	0.45	0
5	A1A0P	Cd	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Ac	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Cf	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Bh	303	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Bb	304	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Ch	307	-	47,47,47	0.40	0	50,52,52	0.83	2 (4%)
5	A1A0P	Bg	302	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Bh	302	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Ce	303	-	47,47,47	0.30	0	50,52,52	0.34	0
5	A1A0P	Bf	303	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Ab	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Aa	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Ba	310	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Cf	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Be	309	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Bg	306	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Cb	303	-	47,47,47	0.31	0	50,52,52	0.34	0
5	A1A0P	Cg	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Ba	309	-	47,47,47	0.76	0	50,52,52	1.22	2 (4%)
5	A1A0P	Ca	308	-	47,47,47	0.67	1 (2%)	50,52,52	0.44	0
5	A1A0P	Cd	303	-	47,47,47	0.30	0	50,52,52	0.34	0
5	A1A0P	Cf	307	-	47,47,47	0.41	0	50,52,52	0.83	2 (4%)
5	A1A0P	Ca	303	-	47,47,47	0.31	0	50,52,52	0.34	0
5	A1A0P	Cb	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Ag	503	-	47,47,47	0.30	0	50,52,52	0.35	0
5	A1A0P	Ca	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Cd	308	-	47,47,47	0.68	1 (2%)	50,52,52	0.44	0
5	A1A0P	Ci	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Cd	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Be	303	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Bd	308	-	47,47,47	0.82	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Bi	305	-	47,47,47	0.31	0	50,52,52	0.43	0
5	A1A0P	Be	302	-	47,47,47	0.34	0	50,52,52	0.52	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	A1A0P	Bd	304	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Ba	305	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Cf	304	-	47,47,47	0.31	0	50,52,52	0.49	0
5	A1A0P	Cg	307	-	47,47,47	0.41	0	50,52,52	0.82	2 (4%)
5	A1A0P	Ca	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Bi	303	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Bh	301	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Bg	304	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Cd	305	-	47,47,47	0.33	0	50,52,52	0.37	0
5	A1A0P	Cc	303	-	47,47,47	0.30	0	50,52,52	0.34	0
5	A1A0P	Bi	302	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Ce	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Ba	303	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Ba	308	-	47,47,47	0.81	3 (6%)	50,52,52	1.24	6 (12%)
5	A1A0P	Cg	306	-	47,47,47	0.39	0	50,52,52	0.63	1 (2%)
5	A1A0P	Cc	301	-	47,47,47	0.36	0	50,52,52	0.77	3 (6%)
5	A1A0P	Bc	302	-	47,47,47	0.34	0	50,52,52	0.52	0
5	A1A0P	Ci	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Ch	302	-	47,47,47	0.45	0	50,52,52	0.73	1 (2%)
5	A1A0P	Cg	304	-	47,47,47	0.31	0	50,52,52	0.49	0
5	A1A0P	Ai	502	-	47,47,47	0.33	0	50,52,52	0.51	1 (2%)
5	A1A0P	Ae	504	-	47,47,47	0.39	0	50,52,52	0.51	1 (2%)
5	A1A0P	Be	308	-	47,47,47	0.77	0	50,52,52	1.22	2 (4%)
5	A1A0P	Bb	301	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Bf	306	-	47,47,47	0.34	0	50,52,52	0.45	0
5	A1A0P	Bi	304	-	47,47,47	0.32	0	50,52,52	0.50	1 (2%)
5	A1A0P	Ci	301	-	47,47,47	0.35	0	50,52,52	0.77	3 (6%)
5	A1A0P	Bi	308	-	47,47,47	0.77	0	50,52,52	1.21	2 (4%)
5	A1A0P	Af	502	-	47,47,47	0.32	0	50,52,52	0.51	1 (2%)
5	A1A0P	Bb	303	-	47,47,47	0.37	0	50,52,52	0.46	0
5	A1A0P	Bi	301	-	47,47,47	0.31	0	50,52,52	0.33	0
5	A1A0P	Bc	308	-	47,47,47	0.77	0	50,52,52	1.22	2 (4%)
5	A1A0P	Bd	309	-	47,47,47	0.77	0	50,52,52	1.22	2 (4%)

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	A1A0P	Ba	307	-	-	24/51/51/51	-
5	A1A0P	Bg	309	-	-	26/51/51/51	-
5	A1A0P	Bf	307	-	-	26/51/51/51	-
5	A1A0P	Ch	306	-	-	25/51/51/51	-
5	A1A0P	Ah	503	-	-	23/51/51/51	-
5	A1A0P	Ae	503	-	-	23/51/51/51	-
5	A1A0P	Bd	302	-	-	17/51/51/51	-
5	A1A0P	Af	503	-	-	23/51/51/51	-
5	A1A0P	Bh	305	-	-	22/51/51/51	-
5	A1A0P	Ca	302	-	-	25/51/51/51	-
5	A1A0P	Cg	305	-	-	16/51/51/51	-
5	A1A0P	Bc	306	-	-	24/51/51/51	-
5	A1A0P	Bf	304	-	-	21/51/51/51	-
5	A1A0P	Bh	308	-	-	28/51/51/51	-
5	A1A0P	Ag	504	-	-	25/51/51/51	-
5	A1A0P	Cc	304	-	-	27/51/51/51	-
5	A1A0P	Ai	503	-	-	23/51/51/51	-
5	A1A0P	Ai	504	-	-	25/51/51/51	-
5	A1A0P	Cb	305	-	-	16/51/51/51	-
5	A1A0P	Ce	308	-	-	22/51/51/51	-
5	A1A0P	Ce	307	-	-	26/51/51/51	-
5	A1A0P	Bc	305	-	-	22/51/51/51	-
5	A1A0P	Ch	301	-	-	28/51/51/51	-
5	A1A0P	Cc	306	-	-	25/51/51/51	-
5	A1A0P	Ch	305	-	-	16/51/51/51	-
5	A1A0P	Cb	308	-	-	22/51/51/51	-
5	A1A0P	Ce	301	-	-	28/51/51/51	-
5	A1A0P	Cf	308	-	-	22/51/51/51	-
5	A1A0P	Bf	301	-	-	17/51/51/51	-
5	A1A0P	Ah	502	-	-	21/51/51/51	-
5	A1A0P	Be	307	-	-	28/51/51/51	-
5	A1A0P	Ci	303	-	-	24/51/51/51	-
5	A1A0P	Cf	302	-	-	25/51/51/51	-
5	A1A0P	Ce	304	-	-	27/51/51/51	-
5	A1A0P	Bb	306	-	-	24/51/51/51	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	A1A0P	Cc	305	-	-	16/51/51/51	-
5	A1A0P	Cb	301	-	-	28/51/51/51	-
5	A1A0P	Ad	503	-	-	23/51/51/51	-
5	A1A0P	Bg	303	-	-	26/51/51/51	-
5	A1A0P	Bc	303	-	-	25/51/51/51	-
5	A1A0P	Bh	307	-	-	26/51/51/51	-
5	A1A0P	Cd	307	-	-	26/51/51/51	-
5	A1A0P	Cc	308	-	-	22/51/51/51	-
5	A1A0P	Cc	302	-	-	25/51/51/51	-
5	A1A0P	Bd	306	-	-	22/51/51/51	-
5	A1A0P	Ah	504	-	-	25/51/51/51	-
5	A1A0P	Bb	307	-	-	26/51/51/51	-
5	A1A0P	Bc	304	-	-	21/51/51/51	-
5	A1A0P	Ci	304	-	-	27/51/51/51	-
5	A1A0P	Cb	307	-	-	26/51/51/51	-
5	A1A0P	Cf	303	-	-	23/51/51/51	-
5	A1A0P	Bb	308	-	-	25/51/51/51	-
5	A1A0P	Be	305	-	-	22/51/51/51	-
5	A1A0P	Aa	502	-	-	21/51/51/51	-
5	A1A0P	Cg	303	-	-	24/51/51/51	-
5	A1A0P	Bb	305	-	-	22/51/51/51	-
5	A1A0P	Cg	302	-	-	25/51/51/51	-
5	A1A0P	Ci	308	-	-	22/51/51/51	-
5	A1A0P	Bg	308	-	-	28/51/51/51	-
5	A1A0P	Ad	502	-	-	21/51/51/51	-
5	A1A0P	Ab	503	-	-	23/51/51/51	-
5	A1A0P	Ch	304	-	-	27/51/51/51	-
5	A1A0P	Ac	503	-	-	23/51/51/51	-
5	A1A0P	Ag	502	-	-	21/51/51/51	-
5	A1A0P	Bd	305	-	-	21/51/51/51	-
5	A1A0P	Bf	305	-	-	22/51/51/51	-
5	A1A0P	Bi	307	-	-	28/51/51/51	-
5	A1A0P	Ce	305	-	-	16/51/51/51	-
5	A1A0P	Ch	303	-	-	24/51/51/51	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	A1A0P	Bc	307	-	-	28/51/51/51	-
5	A1A0P	Cc	307	-	-	26/51/51/51	-
5	A1A0P	Ca	307	-	-	26/51/51/51	-
5	A1A0P	Ce	302	-	-	25/51/51/51	-
5	A1A0P	Bf	302	-	-	26/51/51/51	-
5	A1A0P	Be	301	-	-	17/51/51/51	-
5	A1A0P	Bd	307	-	-	24/51/51/51	-
5	A1A0P	Be	304	-	-	21/51/51/51	-
5	A1A0P	Cg	301	-	-	28/51/51/51	-
5	A1A0P	Ba	302	-	-	17/51/51/51	-
5	A1A0P	Cb	306	-	-	25/51/51/51	-
5	A1A0P	Cf	301	-	-	28/51/51/51	-
5	A1A0P	Be	306	-	-	24/51/51/51	-
5	A1A0P	Ca	304	-	-	27/51/51/51	-
5	A1A0P	Cd	304	-	-	27/51/51/51	-
5	A1A0P	Bd	303	-	-	26/51/51/51	-
5	A1A0P	Ci	306	-	-	25/51/51/51	-
5	A1A0P	Ch	308	-	-	22/51/51/51	-
5	A1A0P	Af	504	-	-	25/51/51/51	-
5	A1A0P	Bc	301	-	-	17/51/51/51	-
5	A1A0P	Bb	309	-	-	28/51/51/51	-
5	A1A0P	Bg	305	-	-	21/51/51/51	-
5	A1A0P	Bg	307	-	-	24/51/51/51	-
5	A1A0P	Bi	306	-	-	24/51/51/51	-
5	A1A0P	Ae	502	-	-	21/51/51/51	-
5	A1A0P	Bf	308	-	-	28/51/51/51	-
5	A1A0P	Bh	304	-	-	21/51/51/51	-
5	A1A0P	Ba	306	-	-	22/51/51/51	-
5	A1A0P	Bb	302	-	-	26/51/51/51	-
5	A1A0P	Ba	304	-	-	25/51/51/51	-
5	A1A0P	Ac	504	-	-	25/51/51/51	-
5	A1A0P	Ca	301	-	-	28/51/51/51	-
5	A1A0P	Cd	301	-	-	28/51/51/51	-
5	A1A0P	Ci	307	-	-	26/51/51/51	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	A1A0P	Cb	304	-	-	27/51/51/51	-
5	A1A0P	Bh	306	-	-	24/51/51/51	-
5	A1A0P	Cd	302	-	-	25/51/51/51	-
5	A1A0P	Ac	502	-	-	21/51/51/51	-
5	A1A0P	Cf	306	-	-	25/51/51/51	-
5	A1A0P	Bh	303	-	-	25/51/51/51	-
5	A1A0P	Bb	304	-	-	21/51/51/51	-
5	A1A0P	Ch	307	-	-	26/51/51/51	-
5	A1A0P	Bg	302	-	-	17/51/51/51	-
5	A1A0P	Bh	302	-	-	26/51/51/51	-
5	A1A0P	Ce	303	-	-	24/51/51/51	-
5	A1A0P	Bf	303	-	-	25/51/51/51	-
5	A1A0P	Ab	502	-	-	21/51/51/51	-
5	A1A0P	Aa	503	-	-	23/51/51/51	-
5	A1A0P	Ba	310	-	-	25/51/51/51	-
5	A1A0P	Cf	305	-	-	16/51/51/51	-
5	A1A0P	Be	309	-	-	25/51/51/51	-
5	A1A0P	Bg	306	-	-	22/51/51/51	-
5	A1A0P	Cb	303	-	-	24/51/51/51	-
5	A1A0P	Cg	308	-	-	22/51/51/51	-
5	A1A0P	Ba	309	-	-	26/51/51/51	-
5	A1A0P	Ca	308	-	-	22/51/51/51	-
5	A1A0P	Cd	303	-	-	24/51/51/51	-
5	A1A0P	Cf	307	-	-	26/51/51/51	-
5	A1A0P	Ca	303	-	-	24/51/51/51	-
5	A1A0P	Cb	302	-	-	25/51/51/51	-
5	A1A0P	Ag	503	-	-	23/51/51/51	-
5	A1A0P	Ca	306	-	-	25/51/51/51	-
5	A1A0P	Cd	308	-	-	22/51/51/51	-
5	A1A0P	Ci	305	-	-	16/51/51/51	-
5	A1A0P	Cd	306	-	-	25/51/51/51	-
5	A1A0P	Be	303	-	-	25/51/51/51	-
5	A1A0P	Bd	308	-	-	28/51/51/51	-
5	A1A0P	Bi	305	-	-	22/51/51/51	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	A1A0P	Be	302	-	-	26/51/51/51	-
5	A1A0P	Bd	304	-	-	25/51/51/51	-
5	A1A0P	Ba	305	-	-	21/51/51/51	-
5	A1A0P	Cf	304	-	-	27/51/51/51	-
5	A1A0P	Cg	307	-	-	26/51/51/51	-
5	A1A0P	Ca	305	-	-	16/51/51/51	-
5	A1A0P	Bi	303	-	-	25/51/51/51	-
5	A1A0P	Bh	301	-	-	17/51/51/51	-
5	A1A0P	Bg	304	-	-	25/51/51/51	-
5	A1A0P	Cd	305	-	-	16/51/51/51	-
5	A1A0P	Cc	303	-	-	24/51/51/51	-
5	A1A0P	Bi	302	-	-	26/51/51/51	-
5	A1A0P	Ce	306	-	-	25/51/51/51	-
5	A1A0P	Ba	303	-	-	26/51/51/51	-
5	A1A0P	Ba	308	-	-	28/51/51/51	-
5	A1A0P	Cg	306	-	-	25/51/51/51	-
5	A1A0P	Cc	301	-	-	28/51/51/51	-
5	A1A0P	Bc	302	-	-	26/51/51/51	-
5	A1A0P	Ci	302	-	-	25/51/51/51	-
5	A1A0P	Ch	302	-	-	25/51/51/51	-
5	A1A0P	Cg	304	-	-	27/51/51/51	-
5	A1A0P	Ai	502	-	-	21/51/51/51	-
5	A1A0P	Ae	504	-	-	26/51/51/51	-
5	A1A0P	Be	308	-	-	26/51/51/51	-
5	A1A0P	Bb	301	-	-	17/51/51/51	-
5	A1A0P	Bf	306	-	-	24/51/51/51	-
5	A1A0P	Bi	304	-	-	21/51/51/51	-
5	A1A0P	Ci	301	-	-	28/51/51/51	-
5	A1A0P	Bi	308	-	-	26/51/51/51	-
5	A1A0P	Af	502	-	-	21/51/51/51	-
5	A1A0P	Bb	303	-	-	25/51/51/51	-
5	A1A0P	Bi	301	-	-	17/51/51/51	-
5	A1A0P	Bc	308	-	-	26/51/51/51	-
5	A1A0P	Bd	309	-	-	26/51/51/51	-

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Bf	308	A1A0P	P14-O10	3.42	1.72	1.59
5	Bb	309	A1A0P	P14-O10	3.40	1.72	1.59
5	Bi	307	A1A0P	P14-O10	3.39	1.72	1.59
5	Bh	308	A1A0P	P14-O10	3.39	1.72	1.59
5	Bc	307	A1A0P	P14-O10	3.39	1.72	1.59
5	Be	307	A1A0P	P14-O10	3.39	1.72	1.59
5	Bg	308	A1A0P	P14-O10	3.38	1.72	1.59
5	Ba	308	A1A0P	P14-O10	3.38	1.72	1.59
5	Bd	308	A1A0P	P14-O10	3.38	1.72	1.59
5	Bd	308	A1A0P	O10-C11	2.76	1.55	1.44
5	Ba	308	A1A0P	O10-C11	2.74	1.55	1.44
5	Bi	307	A1A0P	O10-C11	2.74	1.55	1.44
5	Bc	307	A1A0P	O10-C11	2.74	1.55	1.44
5	Bh	308	A1A0P	O10-C11	2.74	1.55	1.44
5	Bf	308	A1A0P	O10-C11	2.74	1.55	1.44
5	Bg	308	A1A0P	O10-C11	2.73	1.55	1.44
5	Bb	309	A1A0P	O10-C11	2.73	1.55	1.44
5	Be	307	A1A0P	O10-C11	2.73	1.55	1.44
5	Cb	308	A1A0P	C33-C32	2.73	1.69	1.50
5	Cd	308	A1A0P	C33-C32	2.72	1.69	1.50
5	Cg	308	A1A0P	C33-C32	2.72	1.69	1.50
5	Ci	308	A1A0P	C33-C32	2.72	1.69	1.50
5	Ch	308	A1A0P	C33-C32	2.72	1.69	1.50
5	Cf	308	A1A0P	C33-C32	2.71	1.69	1.50
5	Ce	308	A1A0P	C33-C32	2.71	1.69	1.50
5	Cc	308	A1A0P	C33-C32	2.71	1.69	1.50
5	Ca	308	A1A0P	C33-C32	2.71	1.69	1.50
5	Bd	308	A1A0P	C12-N13	2.31	1.63	1.46
5	Bc	307	A1A0P	C12-N13	2.31	1.63	1.46
5	Bh	308	A1A0P	C12-N13	2.31	1.63	1.46
5	Bi	307	A1A0P	C12-N13	2.31	1.63	1.46
5	Bf	308	A1A0P	C12-N13	2.30	1.63	1.46
5	Bb	309	A1A0P	C12-N13	2.30	1.63	1.46
5	Bg	308	A1A0P	C12-N13	2.30	1.63	1.46
5	Ba	308	A1A0P	C12-N13	2.29	1.63	1.46
5	Be	307	A1A0P	C12-N13	2.29	1.63	1.46

All (162) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Ba	309	A1A0P	O3-C2-C1	-5.13	93.60	108.40
5	Be	308	A1A0P	O3-C2-C1	-5.13	93.60	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Bg	309	A1A0P	O3-C2-C1	-5.13	93.61	108.40
5	Bd	309	A1A0P	O3-C2-C1	-5.12	93.62	108.40
5	Bc	308	A1A0P	O3-C2-C1	-5.11	93.66	108.40
5	Bb	307	A1A0P	O3-C2-C1	-5.11	93.66	108.40
5	Bh	307	A1A0P	O3-C2-C1	-5.11	93.66	108.40
5	Bi	308	A1A0P	O3-C2-C1	-5.10	93.70	108.40
5	Bf	307	A1A0P	O3-C2-C1	-5.09	93.71	108.40
5	Ba	309	A1A0P	C8-C1-C2	-4.23	101.93	111.78
5	Bd	309	A1A0P	C8-C1-C2	-4.22	101.94	111.78
5	Bc	308	A1A0P	C8-C1-C2	-4.22	101.94	111.78
5	Bg	309	A1A0P	C8-C1-C2	-4.22	101.94	111.78
5	Be	308	A1A0P	C8-C1-C2	-4.22	101.95	111.78
5	Bb	307	A1A0P	C8-C1-C2	-4.22	101.96	111.78
5	Bi	308	A1A0P	C8-C1-C2	-4.21	101.97	111.78
5	Bh	307	A1A0P	C8-C1-C2	-4.21	101.97	111.78
5	Bf	307	A1A0P	C8-C1-C2	-4.20	101.98	111.78
5	Bf	308	A1A0P	O3-C2-C1	-4.11	96.55	108.40
5	Bi	307	A1A0P	O3-C2-C1	-4.11	96.55	108.40
5	Bh	308	A1A0P	O3-C2-C1	-4.10	96.57	108.40
5	Ba	308	A1A0P	O3-C2-C1	-4.10	96.57	108.40
5	Bb	309	A1A0P	O3-C2-C1	-4.10	96.58	108.40
5	Be	307	A1A0P	O3-C2-C1	-4.09	96.59	108.40
5	Bg	308	A1A0P	O3-C2-C1	-4.09	96.59	108.40
5	Bc	307	A1A0P	O3-C2-C1	-4.09	96.60	108.40
5	Bd	308	A1A0P	O3-C2-C1	-4.08	96.63	108.40
5	Cd	301	A1A0P	O10-P14-O16	-3.81	93.83	108.94
5	Ca	301	A1A0P	O10-P14-O16	-3.81	93.84	108.94
5	Cf	301	A1A0P	O10-P14-O16	-3.80	93.86	108.94
5	Cg	301	A1A0P	O10-P14-O16	-3.80	93.87	108.94
5	Ce	301	A1A0P	O10-P14-O16	-3.80	93.88	108.94
5	Ci	301	A1A0P	O10-P14-O16	-3.80	93.89	108.94
5	Ch	301	A1A0P	O10-P14-O16	-3.79	93.90	108.94
5	Cc	301	A1A0P	O10-P14-O16	-3.79	93.90	108.94
5	Cb	301	A1A0P	O10-P14-O16	-3.79	93.91	108.94
5	Bb	309	A1A0P	P14-O10-C11	3.68	138.76	121.26
5	Bg	308	A1A0P	P14-O10-C11	3.67	138.75	121.26
5	Bh	308	A1A0P	P14-O10-C11	3.67	138.75	121.26
5	Bc	307	A1A0P	P14-O10-C11	3.67	138.74	121.26
5	Bi	307	A1A0P	P14-O10-C11	3.67	138.74	121.26
5	Bf	308	A1A0P	P14-O10-C11	3.67	138.73	121.26
5	Ba	308	A1A0P	P14-O10-C11	3.67	138.72	121.26
5	Bd	308	A1A0P	P14-O10-C11	3.67	138.72	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Be	307	A1A0P	P14-O10-C11	3.66	138.69	121.26
5	Be	307	A1A0P	O15-P14-O9	-3.41	92.11	107.57
5	Bf	308	A1A0P	O15-P14-O9	-3.40	92.14	107.57
5	Ba	308	A1A0P	O15-P14-O9	-3.40	92.14	107.57
5	Bb	309	A1A0P	O15-P14-O9	-3.40	92.15	107.57
5	Bg	308	A1A0P	O15-P14-O9	-3.40	92.15	107.57
5	Bh	308	A1A0P	O15-P14-O9	-3.40	92.16	107.57
5	Bd	308	A1A0P	O15-P14-O9	-3.40	92.16	107.57
5	Bc	307	A1A0P	O15-P14-O9	-3.39	92.19	107.57
5	Bi	307	A1A0P	O15-P14-O9	-3.39	92.21	107.57
5	Ci	307	A1A0P	C8-C1-C2	3.22	119.28	111.78
5	Ch	307	A1A0P	C8-C1-C2	3.21	119.28	111.78
5	Cb	307	A1A0P	C8-C1-C2	3.21	119.27	111.78
5	Ca	307	A1A0P	C8-C1-C2	3.21	119.26	111.78
5	Cd	307	A1A0P	C8-C1-C2	3.20	119.26	111.78
5	Cf	307	A1A0P	C8-C1-C2	3.20	119.25	111.78
5	Ce	307	A1A0P	C8-C1-C2	3.20	119.25	111.78
5	Cg	307	A1A0P	C8-C1-C2	3.19	119.22	111.78
5	Cc	307	A1A0P	C8-C1-C2	3.19	119.22	111.78
5	Cg	307	A1A0P	O3-C2-C1	3.17	117.52	108.40
5	Cf	307	A1A0P	O3-C2-C1	3.16	117.50	108.40
5	Ci	307	A1A0P	O3-C2-C1	3.15	117.48	108.40
5	Cc	307	A1A0P	O3-C2-C1	3.15	117.47	108.40
5	Ce	307	A1A0P	O3-C2-C1	3.15	117.47	108.40
5	Ca	307	A1A0P	O3-C2-C1	3.14	117.45	108.40
5	Ch	307	A1A0P	O3-C2-C1	3.14	117.44	108.40
5	Cd	307	A1A0P	O3-C2-C1	3.14	117.44	108.40
5	Cb	307	A1A0P	O3-C2-C1	3.12	117.39	108.40
5	Ba	308	A1A0P	C8-C1-C2	3.00	118.79	111.78
5	Bg	308	A1A0P	C8-C1-C2	3.00	118.77	111.78
5	Bi	307	A1A0P	C8-C1-C2	2.99	118.77	111.78
5	Bb	309	A1A0P	C8-C1-C2	2.99	118.76	111.78
5	Be	307	A1A0P	C8-C1-C2	2.99	118.75	111.78
5	Bc	307	A1A0P	C8-C1-C2	2.98	118.74	111.78
5	Bd	308	A1A0P	C8-C1-C2	2.98	118.74	111.78
5	Bh	308	A1A0P	C8-C1-C2	2.98	118.73	111.78
5	Bf	308	A1A0P	C8-C1-C2	2.98	118.72	111.78
5	Ba	308	A1A0P	O15-P14-O10	2.45	118.68	107.57
5	Be	307	A1A0P	O15-P14-O10	2.45	118.68	107.57
5	Bh	308	A1A0P	O15-P14-O10	2.45	118.66	107.57
5	Bd	308	A1A0P	O15-P14-O10	2.45	118.66	107.57
5	Bg	308	A1A0P	O15-P14-O10	2.45	118.65	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Bf	308	A1A0P	O15-P14-O10	2.44	118.64	107.57
5	Bc	307	A1A0P	O15-P14-O10	2.44	118.63	107.57
5	Bi	307	A1A0P	O15-P14-O10	2.44	118.62	107.57
5	Bb	309	A1A0P	O15-P14-O10	2.44	118.61	107.57
5	Ac	504	A1A0P	O3-C2-C1	2.23	114.83	108.40
5	Ah	504	A1A0P	O3-C2-C1	2.23	114.83	108.40
5	Ae	502	A1A0P	C1-O6-C17	2.23	123.13	117.80
5	Ba	310	A1A0P	O3-C2-C1	2.23	114.81	108.40
5	Be	309	A1A0P	O3-C2-C1	2.22	114.80	108.40
5	Ae	504	A1A0P	O3-C2-C1	2.22	114.80	108.40
5	Ad	502	A1A0P	C1-O6-C17	2.22	123.11	117.80
5	Ah	502	A1A0P	C1-O6-C17	2.22	123.11	117.80
5	Ai	504	A1A0P	O3-C2-C1	2.22	114.79	108.40
5	Af	504	A1A0P	O3-C2-C1	2.21	114.78	108.40
5	Bb	308	A1A0P	O3-C2-C1	2.21	114.77	108.40
5	Ai	502	A1A0P	C1-O6-C17	2.21	123.09	117.80
5	Ac	502	A1A0P	C1-O6-C17	2.21	123.08	117.80
5	Ag	504	A1A0P	O3-C2-C1	2.21	114.76	108.40
5	Ab	502	A1A0P	C1-O6-C17	2.20	123.07	117.80
5	Aa	502	A1A0P	C1-O6-C17	2.20	123.06	117.80
5	Cf	302	A1A0P	C8-C1-C2	2.20	116.91	111.78
5	Cg	302	A1A0P	C8-C1-C2	2.19	116.90	111.78
5	Ca	302	A1A0P	C8-C1-C2	2.19	116.89	111.78
5	Ce	302	A1A0P	C8-C1-C2	2.19	116.89	111.78
5	Af	502	A1A0P	C1-O6-C17	2.18	123.03	117.80
5	Ag	502	A1A0P	C1-O6-C17	2.18	123.02	117.80
5	Cc	302	A1A0P	C8-C1-C2	2.18	116.88	111.78
5	Ch	306	A1A0P	C1-O6-C17	2.18	123.02	117.80
5	Ch	302	A1A0P	C8-C1-C2	2.18	116.87	111.78
5	Cb	306	A1A0P	C1-O6-C17	2.18	123.01	117.80
5	Ci	302	A1A0P	C8-C1-C2	2.17	116.85	111.78
5	Cd	302	A1A0P	C8-C1-C2	2.17	116.85	111.78
5	Cb	302	A1A0P	C8-C1-C2	2.17	116.84	111.78
5	Ca	306	A1A0P	C1-O6-C17	2.17	122.99	117.80
5	Cf	306	A1A0P	C1-O6-C17	2.16	122.96	117.80
5	Cd	306	A1A0P	C1-O6-C17	2.16	122.96	117.80
5	Ce	306	A1A0P	C1-O6-C17	2.16	122.96	117.80
5	Cc	306	A1A0P	C1-O6-C17	2.16	122.96	117.80
5	Cg	306	A1A0P	C1-O6-C17	2.15	122.95	117.80
5	Ci	306	A1A0P	C1-O6-C17	2.14	122.93	117.80
5	Ce	301	A1A0P	O9-P14-O16	2.14	117.43	108.94
5	Ci	301	A1A0P	O9-P14-O16	2.14	117.41	108.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Ch	301	A1A0P	O9-P14-O16	2.13	117.37	108.94
5	Cc	301	A1A0P	O9-P14-O16	2.13	117.36	108.94
5	Cf	301	A1A0P	O9-P14-O16	2.12	117.34	108.94
5	Cg	301	A1A0P	O9-P14-O16	2.12	117.34	108.94
5	Ca	301	A1A0P	O9-P14-O16	2.12	117.34	108.94
5	Cd	301	A1A0P	O9-P14-O16	2.12	117.33	108.94
5	Cb	301	A1A0P	O9-P14-O16	2.12	117.33	108.94
5	Be	304	A1A0P	C1-O6-C17	2.11	122.85	117.80
5	Bb	304	A1A0P	C1-O6-C17	2.11	122.85	117.80
5	Bg	305	A1A0P	C1-O6-C17	2.11	122.84	117.80
5	Bc	304	A1A0P	C1-O6-C17	2.11	122.84	117.80
5	Bh	304	A1A0P	C1-O6-C17	2.10	122.83	117.80
5	Bi	304	A1A0P	C1-O6-C17	2.10	122.83	117.80
5	Ba	305	A1A0P	C1-O6-C17	2.10	122.82	117.80
5	Bd	305	A1A0P	C1-O6-C17	2.10	122.81	117.80
5	Bf	304	A1A0P	C1-O6-C17	2.09	122.80	117.80
5	Bf	308	A1A0P	O15-P14-O16	2.04	121.95	112.44
5	Bb	309	A1A0P	O15-P14-O16	2.04	121.93	112.44
5	Bi	307	A1A0P	O15-P14-O16	2.04	121.92	112.44
5	Bd	308	A1A0P	O15-P14-O16	2.04	121.92	112.44
5	Bh	308	A1A0P	O15-P14-O16	2.04	121.92	112.44
5	Bc	307	A1A0P	O15-P14-O16	2.03	121.91	112.44
5	Cb	301	A1A0P	O15-P14-O16	2.03	121.90	112.44
5	Cd	301	A1A0P	O15-P14-O16	2.03	121.88	112.44
5	Be	307	A1A0P	O15-P14-O16	2.03	121.88	112.44
5	Bg	308	A1A0P	O15-P14-O16	2.03	121.88	112.44
5	Ch	301	A1A0P	O15-P14-O16	2.02	121.84	112.44
5	Ca	301	A1A0P	O15-P14-O16	2.02	121.84	112.44
5	Ba	308	A1A0P	O15-P14-O16	2.02	121.84	112.44
5	Ci	301	A1A0P	O15-P14-O16	2.02	121.84	112.44
5	Cg	301	A1A0P	O15-P14-O16	2.01	121.82	112.44
5	Cc	301	A1A0P	O15-P14-O16	2.01	121.81	112.44
5	Ce	301	A1A0P	O15-P14-O16	2.01	121.80	112.44
5	Cf	301	A1A0P	O15-P14-O16	2.01	121.78	112.44

There are no chirality outliers.

All (4059) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	Aa	502	A1A0P	O18-C17-O6-C1
5	Aa	502	A1A0P	C19-C17-O6-C1
5	Aa	502	A1A0P	C8-O9-P14-O10

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Mol	Chain	Res	Type	Atoms
5	Aa	502	A1A0P	C8-O9-P14-O15
5	Aa	503	A1A0P	C8-O9-P14-O10
5	Aa	503	A1A0P	C8-O9-P14-O15
5	Aa	503	A1A0P	C8-O9-P14-O16
5	Ab	502	A1A0P	O18-C17-O6-C1
5	Ab	502	A1A0P	C19-C17-O6-C1
5	Ab	502	A1A0P	C8-O9-P14-O10
5	Ab	502	A1A0P	C8-O9-P14-O15
5	Ab	503	A1A0P	C8-O9-P14-O10
5	Ab	503	A1A0P	C8-O9-P14-O15
5	Ab	503	A1A0P	C8-O9-P14-O16
5	Ac	502	A1A0P	O18-C17-O6-C1
5	Ac	502	A1A0P	C19-C17-O6-C1
5	Ac	502	A1A0P	C8-O9-P14-O10
5	Ac	502	A1A0P	C8-O9-P14-O15
5	Ac	503	A1A0P	C8-O9-P14-O10
5	Ac	503	A1A0P	C8-O9-P14-O15
5	Ac	503	A1A0P	C8-O9-P14-O16
5	Ac	504	A1A0P	C8-O9-P14-O10
5	Ac	504	A1A0P	C8-O9-P14-O16
5	Ac	504	A1A0P	O10-C11-C12-N13
5	Ad	502	A1A0P	O18-C17-O6-C1
5	Ad	502	A1A0P	C19-C17-O6-C1
5	Ad	502	A1A0P	C8-O9-P14-O10
5	Ad	502	A1A0P	C8-O9-P14-O15
5	Ad	503	A1A0P	C8-O9-P14-O10
5	Ad	503	A1A0P	C8-O9-P14-O15
5	Ad	503	A1A0P	C8-O9-P14-O16
5	Ae	502	A1A0P	O18-C17-O6-C1
5	Ae	502	A1A0P	C19-C17-O6-C1
5	Ae	502	A1A0P	C8-O9-P14-O10
5	Ae	502	A1A0P	C8-O9-P14-O15
5	Ae	503	A1A0P	C8-O9-P14-O10
5	Ae	503	A1A0P	C8-O9-P14-O15
5	Ae	503	A1A0P	C8-O9-P14-O16
5	Ae	504	A1A0P	C8-O9-P14-O10
5	Ae	504	A1A0P	C8-O9-P14-O16
5	Ae	504	A1A0P	O10-C11-C12-N13
5	Af	502	A1A0P	O18-C17-O6-C1
5	Af	502	A1A0P	C19-C17-O6-C1
5	Af	502	A1A0P	C8-O9-P14-O10
5	Af	502	A1A0P	C8-O9-P14-O15

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Mol	Chain	Res	Type	Atoms
5	Af	503	A1A0P	C8-O9-P14-O10
5	Af	503	A1A0P	C8-O9-P14-O15
5	Af	503	A1A0P	C8-O9-P14-O16
5	Af	504	A1A0P	C8-O9-P14-O10
5	Af	504	A1A0P	C8-O9-P14-O16
5	Af	504	A1A0P	O10-C11-C12-N13
5	Ag	502	A1A0P	O18-C17-O6-C1
5	Ag	502	A1A0P	C19-C17-O6-C1
5	Ag	502	A1A0P	C8-O9-P14-O10
5	Ag	502	A1A0P	C8-O9-P14-O15
5	Ag	503	A1A0P	C8-O9-P14-O10
5	Ag	503	A1A0P	C8-O9-P14-O15
5	Ag	503	A1A0P	C8-O9-P14-O16
5	Ag	504	A1A0P	C8-O9-P14-O10
5	Ag	504	A1A0P	C8-O9-P14-O16
5	Ag	504	A1A0P	O10-C11-C12-N13
5	Ah	502	A1A0P	O18-C17-O6-C1
5	Ah	502	A1A0P	C19-C17-O6-C1
5	Ah	502	A1A0P	C8-O9-P14-O10
5	Ah	502	A1A0P	C8-O9-P14-O15
5	Ah	503	A1A0P	C8-O9-P14-O10
5	Ah	503	A1A0P	C8-O9-P14-O15
5	Ah	503	A1A0P	C8-O9-P14-O16
5	Ah	504	A1A0P	C8-O9-P14-O10
5	Ah	504	A1A0P	C8-O9-P14-O16
5	Ah	504	A1A0P	O10-C11-C12-N13
5	Ai	502	A1A0P	O18-C17-O6-C1
5	Ai	502	A1A0P	C19-C17-O6-C1
5	Ai	502	A1A0P	C8-O9-P14-O10
5	Ai	502	A1A0P	C8-O9-P14-O15
5	Ai	503	A1A0P	C8-O9-P14-O10
5	Ai	503	A1A0P	C8-O9-P14-O15
5	Ai	503	A1A0P	C8-O9-P14-O16
5	Ai	504	A1A0P	C8-O9-P14-O10
5	Ai	504	A1A0P	C8-O9-P14-O16
5	Ai	504	A1A0P	O10-C11-C12-N13
5	Ba	302	A1A0P	C11-O10-P14-O9
5	Ba	302	A1A0P	C11-O10-P14-O15
5	Ba	302	A1A0P	O10-C11-C12-N13
5	Ba	303	A1A0P	O5-C4-O3-C2
5	Ba	303	A1A0P	C7-C4-O3-C2
5	Ba	303	A1A0P	O6-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Ba	303	A1A0P	C8-O9-P14-O16
5	Ba	303	A1A0P	C11-O10-P14-O16
5	Ba	303	A1A0P	O10-C11-C12-N13
5	Ba	304	A1A0P	C11-O10-P14-O9
5	Ba	304	A1A0P	C11-O10-P14-O16
5	Ba	305	A1A0P	O18-C17-O6-C1
5	Ba	305	A1A0P	C19-C17-O6-C1
5	Ba	305	A1A0P	O10-C11-C12-N13
5	Ba	306	A1A0P	C11-O10-P14-O9
5	Ba	306	A1A0P	C11-O10-P14-O16
5	Ba	306	A1A0P	O10-C11-C12-N13
5	Ba	307	A1A0P	O5-C4-O3-C2
5	Ba	307	A1A0P	C7-C4-O3-C2
5	Ba	307	A1A0P	C8-O9-P14-O10
5	Ba	307	A1A0P	C8-O9-P14-O15
5	Ba	307	A1A0P	O10-C11-C12-N13
5	Ba	308	A1A0P	C7-C4-O3-C2
5	Ba	308	A1A0P	C1-C8-O9-P14
5	Ba	308	A1A0P	C11-O10-P14-O16
5	Ba	309	A1A0P	C8-O9-P14-O10
5	Ba	309	A1A0P	C12-C11-O10-P14
5	Ba	309	A1A0P	C11-O10-P14-O9
5	Ba	309	A1A0P	C11-O10-P14-O15
5	Ba	309	A1A0P	O10-C11-C12-N13
5	Ba	310	A1A0P	C8-O9-P14-O10
5	Ba	310	A1A0P	C8-O9-P14-O16
5	Ba	310	A1A0P	O10-C11-C12-N13
5	Bb	301	A1A0P	C11-O10-P14-O9
5	Bb	301	A1A0P	C11-O10-P14-O15
5	Bb	301	A1A0P	O10-C11-C12-N13
5	Bb	302	A1A0P	O5-C4-O3-C2
5	Bb	302	A1A0P	C7-C4-O3-C2
5	Bb	302	A1A0P	O6-C1-C8-O9
5	Bb	302	A1A0P	C8-O9-P14-O16
5	Bb	302	A1A0P	C11-O10-P14-O16
5	Bb	302	A1A0P	O10-C11-C12-N13
5	Bb	303	A1A0P	C11-O10-P14-O9
5	Bb	303	A1A0P	C11-O10-P14-O16
5	Bb	304	A1A0P	O18-C17-O6-C1
5	Bb	304	A1A0P	C19-C17-O6-C1
5	Bb	304	A1A0P	O10-C11-C12-N13
5	Bb	305	A1A0P	C11-O10-P14-O9

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Mol	Chain	Res	Type	Atoms
5	Bb	305	A1A0P	C11-O10-P14-O16
5	Bb	305	A1A0P	O10-C11-C12-N13
5	Bb	306	A1A0P	O5-C4-O3-C2
5	Bb	306	A1A0P	C7-C4-O3-C2
5	Bb	306	A1A0P	C8-O9-P14-O10
5	Bb	306	A1A0P	C8-O9-P14-O15
5	Bb	306	A1A0P	O10-C11-C12-N13
5	Bb	307	A1A0P	C8-O9-P14-O10
5	Bb	307	A1A0P	C12-C11-O10-P14
5	Bb	307	A1A0P	C11-O10-P14-O9
5	Bb	307	A1A0P	C11-O10-P14-O15
5	Bb	307	A1A0P	O10-C11-C12-N13
5	Bb	308	A1A0P	C8-O9-P14-O10
5	Bb	308	A1A0P	C8-O9-P14-O16
5	Bb	308	A1A0P	O10-C11-C12-N13
5	Bb	309	A1A0P	C7-C4-O3-C2
5	Bb	309	A1A0P	C1-C8-O9-P14
5	Bb	309	A1A0P	C11-O10-P14-O16
5	Bc	301	A1A0P	C11-O10-P14-O9
5	Bc	301	A1A0P	C11-O10-P14-O15
5	Bc	301	A1A0P	O10-C11-C12-N13
5	Bc	302	A1A0P	O5-C4-O3-C2
5	Bc	302	A1A0P	C7-C4-O3-C2
5	Bc	302	A1A0P	O6-C1-C8-O9
5	Bc	302	A1A0P	C8-O9-P14-O16
5	Bc	302	A1A0P	C11-O10-P14-O16
5	Bc	302	A1A0P	O10-C11-C12-N13
5	Bc	303	A1A0P	C11-O10-P14-O9
5	Bc	303	A1A0P	C11-O10-P14-O16
5	Bc	304	A1A0P	O18-C17-O6-C1
5	Bc	304	A1A0P	C19-C17-O6-C1
5	Bc	304	A1A0P	O10-C11-C12-N13
5	Bc	305	A1A0P	C11-O10-P14-O9
5	Bc	305	A1A0P	C11-O10-P14-O16
5	Bc	305	A1A0P	O10-C11-C12-N13
5	Bc	306	A1A0P	O5-C4-O3-C2
5	Bc	306	A1A0P	C7-C4-O3-C2
5	Bc	306	A1A0P	C8-O9-P14-O10
5	Bc	306	A1A0P	C8-O9-P14-O15
5	Bc	306	A1A0P	O10-C11-C12-N13
5	Bc	307	A1A0P	C7-C4-O3-C2
5	Bc	307	A1A0P	C1-C8-O9-P14

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Mol	Chain	Res	Type	Atoms
5	Bc	307	A1A0P	C11-O10-P14-O16
5	Bc	308	A1A0P	C8-O9-P14-O10
5	Bc	308	A1A0P	C12-C11-O10-P14
5	Bc	308	A1A0P	C11-O10-P14-O9
5	Bc	308	A1A0P	C11-O10-P14-O15
5	Bc	308	A1A0P	O10-C11-C12-N13
5	Bd	302	A1A0P	C11-O10-P14-O9
5	Bd	302	A1A0P	C11-O10-P14-O15
5	Bd	302	A1A0P	O10-C11-C12-N13
5	Bd	303	A1A0P	O5-C4-O3-C2
5	Bd	303	A1A0P	C7-C4-O3-C2
5	Bd	303	A1A0P	O6-C1-C8-O9
5	Bd	303	A1A0P	C8-O9-P14-O16
5	Bd	303	A1A0P	C11-O10-P14-O16
5	Bd	303	A1A0P	O10-C11-C12-N13
5	Bd	304	A1A0P	C11-O10-P14-O9
5	Bd	304	A1A0P	C11-O10-P14-O16
5	Bd	305	A1A0P	O18-C17-O6-C1
5	Bd	305	A1A0P	C19-C17-O6-C1
5	Bd	305	A1A0P	O10-C11-C12-N13
5	Bd	306	A1A0P	C11-O10-P14-O9
5	Bd	306	A1A0P	C11-O10-P14-O16
5	Bd	306	A1A0P	O10-C11-C12-N13
5	Bd	307	A1A0P	O5-C4-O3-C2
5	Bd	307	A1A0P	C7-C4-O3-C2
5	Bd	307	A1A0P	C8-O9-P14-O10
5	Bd	307	A1A0P	C8-O9-P14-O15
5	Bd	307	A1A0P	O10-C11-C12-N13
5	Bd	308	A1A0P	C7-C4-O3-C2
5	Bd	308	A1A0P	C1-C8-O9-P14
5	Bd	308	A1A0P	C11-O10-P14-O16
5	Bd	309	A1A0P	C8-O9-P14-O10
5	Bd	309	A1A0P	C12-C11-O10-P14
5	Bd	309	A1A0P	C11-O10-P14-O9
5	Bd	309	A1A0P	C11-O10-P14-O15
5	Bd	309	A1A0P	O10-C11-C12-N13
5	Be	301	A1A0P	C11-O10-P14-O9
5	Be	301	A1A0P	C11-O10-P14-O15
5	Be	301	A1A0P	O10-C11-C12-N13
5	Be	302	A1A0P	O5-C4-O3-C2
5	Be	302	A1A0P	C7-C4-O3-C2
5	Be	302	A1A0P	O6-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Be	302	A1A0P	C8-O9-P14-O16
5	Be	302	A1A0P	C11-O10-P14-O16
5	Be	302	A1A0P	O10-C11-C12-N13
5	Be	303	A1A0P	C11-O10-P14-O9
5	Be	303	A1A0P	C11-O10-P14-O16
5	Be	304	A1A0P	O18-C17-O6-C1
5	Be	304	A1A0P	C19-C17-O6-C1
5	Be	304	A1A0P	O10-C11-C12-N13
5	Be	305	A1A0P	C11-O10-P14-O9
5	Be	305	A1A0P	C11-O10-P14-O16
5	Be	305	A1A0P	O10-C11-C12-N13
5	Be	306	A1A0P	O5-C4-O3-C2
5	Be	306	A1A0P	C7-C4-O3-C2
5	Be	306	A1A0P	C8-O9-P14-O10
5	Be	306	A1A0P	C8-O9-P14-O15
5	Be	306	A1A0P	O10-C11-C12-N13
5	Be	307	A1A0P	C7-C4-O3-C2
5	Be	307	A1A0P	C1-C8-O9-P14
5	Be	307	A1A0P	C11-O10-P14-O16
5	Be	308	A1A0P	C8-O9-P14-O10
5	Be	308	A1A0P	C12-C11-O10-P14
5	Be	308	A1A0P	C11-O10-P14-O9
5	Be	308	A1A0P	C11-O10-P14-O15
5	Be	308	A1A0P	O10-C11-C12-N13
5	Be	309	A1A0P	C8-O9-P14-O10
5	Be	309	A1A0P	C8-O9-P14-O16
5	Be	309	A1A0P	O10-C11-C12-N13
5	Bf	301	A1A0P	C11-O10-P14-O9
5	Bf	301	A1A0P	C11-O10-P14-O15
5	Bf	301	A1A0P	O10-C11-C12-N13
5	Bf	302	A1A0P	O5-C4-O3-C2
5	Bf	302	A1A0P	C7-C4-O3-C2
5	Bf	302	A1A0P	O6-C1-C8-O9
5	Bf	302	A1A0P	C8-O9-P14-O16
5	Bf	302	A1A0P	C11-O10-P14-O16
5	Bf	302	A1A0P	O10-C11-C12-N13
5	Bf	303	A1A0P	C11-O10-P14-O9
5	Bf	303	A1A0P	C11-O10-P14-O16
5	Bf	304	A1A0P	O18-C17-O6-C1
5	Bf	304	A1A0P	C19-C17-O6-C1
5	Bf	304	A1A0P	O10-C11-C12-N13
5	Bf	305	A1A0P	C11-O10-P14-O9

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Mol	Chain	Res	Type	Atoms
5	Bf	305	A1A0P	C11-O10-P14-O16
5	Bf	305	A1A0P	O10-C11-C12-N13
5	Bf	306	A1A0P	O5-C4-O3-C2
5	Bf	306	A1A0P	C7-C4-O3-C2
5	Bf	306	A1A0P	C8-O9-P14-O10
5	Bf	306	A1A0P	C8-O9-P14-O15
5	Bf	306	A1A0P	O10-C11-C12-N13
5	Bf	307	A1A0P	C8-O9-P14-O10
5	Bf	307	A1A0P	C12-C11-O10-P14
5	Bf	307	A1A0P	C11-O10-P14-O9
5	Bf	307	A1A0P	C11-O10-P14-O15
5	Bf	307	A1A0P	O10-C11-C12-N13
5	Bf	308	A1A0P	C7-C4-O3-C2
5	Bf	308	A1A0P	C1-C8-O9-P14
5	Bf	308	A1A0P	C11-O10-P14-O16
5	Bg	302	A1A0P	C11-O10-P14-O9
5	Bg	302	A1A0P	C11-O10-P14-O15
5	Bg	302	A1A0P	O10-C11-C12-N13
5	Bg	303	A1A0P	O5-C4-O3-C2
5	Bg	303	A1A0P	C7-C4-O3-C2
5	Bg	303	A1A0P	O6-C1-C8-O9
5	Bg	303	A1A0P	C8-O9-P14-O16
5	Bg	303	A1A0P	C11-O10-P14-O16
5	Bg	303	A1A0P	O10-C11-C12-N13
5	Bg	304	A1A0P	C11-O10-P14-O9
5	Bg	304	A1A0P	C11-O10-P14-O16
5	Bg	305	A1A0P	O18-C17-O6-C1
5	Bg	305	A1A0P	C19-C17-O6-C1
5	Bg	305	A1A0P	O10-C11-C12-N13
5	Bg	306	A1A0P	C11-O10-P14-O9
5	Bg	306	A1A0P	C11-O10-P14-O16
5	Bg	306	A1A0P	O10-C11-C12-N13
5	Bg	307	A1A0P	O5-C4-O3-C2
5	Bg	307	A1A0P	C7-C4-O3-C2
5	Bg	307	A1A0P	C8-O9-P14-O10
5	Bg	307	A1A0P	C8-O9-P14-O15
5	Bg	307	A1A0P	O10-C11-C12-N13
5	Bg	308	A1A0P	C7-C4-O3-C2
5	Bg	308	A1A0P	C1-C8-O9-P14
5	Bg	308	A1A0P	C11-O10-P14-O16
5	Bg	309	A1A0P	C8-O9-P14-O10
5	Bg	309	A1A0P	C12-C11-O10-P14

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Mol	Chain	Res	Type	Atoms
5	Bg	309	A1A0P	C11-O10-P14-O9
5	Bg	309	A1A0P	C11-O10-P14-O15
5	Bg	309	A1A0P	O10-C11-C12-N13
5	Bh	301	A1A0P	C11-O10-P14-O9
5	Bh	301	A1A0P	C11-O10-P14-O15
5	Bh	301	A1A0P	O10-C11-C12-N13
5	Bh	302	A1A0P	O5-C4-O3-C2
5	Bh	302	A1A0P	C7-C4-O3-C2
5	Bh	302	A1A0P	O6-C1-C8-O9
5	Bh	302	A1A0P	C8-O9-P14-O16
5	Bh	302	A1A0P	C11-O10-P14-O16
5	Bh	302	A1A0P	O10-C11-C12-N13
5	Bh	303	A1A0P	C11-O10-P14-O9
5	Bh	303	A1A0P	C11-O10-P14-O16
5	Bh	304	A1A0P	O18-C17-O6-C1
5	Bh	304	A1A0P	C19-C17-O6-C1
5	Bh	304	A1A0P	O10-C11-C12-N13
5	Bh	305	A1A0P	C11-O10-P14-O9
5	Bh	305	A1A0P	C11-O10-P14-O16
5	Bh	305	A1A0P	O10-C11-C12-N13
5	Bh	306	A1A0P	O5-C4-O3-C2
5	Bh	306	A1A0P	C7-C4-O3-C2
5	Bh	306	A1A0P	C8-O9-P14-O10
5	Bh	306	A1A0P	C8-O9-P14-O15
5	Bh	306	A1A0P	O10-C11-C12-N13
5	Bh	307	A1A0P	C8-O9-P14-O10
5	Bh	307	A1A0P	C12-C11-O10-P14
5	Bh	307	A1A0P	C11-O10-P14-O9
5	Bh	307	A1A0P	C11-O10-P14-O15
5	Bh	307	A1A0P	O10-C11-C12-N13
5	Bh	308	A1A0P	C7-C4-O3-C2
5	Bh	308	A1A0P	C1-C8-O9-P14
5	Bh	308	A1A0P	C11-O10-P14-O16
5	Bi	301	A1A0P	C11-O10-P14-O9
5	Bi	301	A1A0P	C11-O10-P14-O15
5	Bi	301	A1A0P	O10-C11-C12-N13
5	Bi	302	A1A0P	O5-C4-O3-C2
5	Bi	302	A1A0P	C7-C4-O3-C2
5	Bi	302	A1A0P	O6-C1-C8-O9
5	Bi	302	A1A0P	C8-O9-P14-O16
5	Bi	302	A1A0P	C11-O10-P14-O16
5	Bi	302	A1A0P	O10-C11-C12-N13

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Mol	Chain	Res	Type	Atoms
5	Bi	303	A1A0P	C11-O10-P14-O9
5	Bi	303	A1A0P	C11-O10-P14-O16
5	Bi	304	A1A0P	O18-C17-O6-C1
5	Bi	304	A1A0P	C19-C17-O6-C1
5	Bi	304	A1A0P	O10-C11-C12-N13
5	Bi	305	A1A0P	C11-O10-P14-O9
5	Bi	305	A1A0P	C11-O10-P14-O16
5	Bi	305	A1A0P	O10-C11-C12-N13
5	Bi	306	A1A0P	O5-C4-O3-C2
5	Bi	306	A1A0P	C7-C4-O3-C2
5	Bi	306	A1A0P	C8-O9-P14-O10
5	Bi	306	A1A0P	C8-O9-P14-O15
5	Bi	306	A1A0P	O10-C11-C12-N13
5	Bi	307	A1A0P	C7-C4-O3-C2
5	Bi	307	A1A0P	C1-C8-O9-P14
5	Bi	307	A1A0P	C11-O10-P14-O16
5	Bi	308	A1A0P	C8-O9-P14-O10
5	Bi	308	A1A0P	C12-C11-O10-P14
5	Bi	308	A1A0P	C11-O10-P14-O9
5	Bi	308	A1A0P	C11-O10-P14-O15
5	Bi	308	A1A0P	O10-C11-C12-N13
5	Ca	301	A1A0P	C11-O10-P14-O9
5	Ca	301	A1A0P	C11-O10-P14-O15
5	Ca	301	A1A0P	C11-O10-P14-O16
5	Ca	302	A1A0P	O5-C4-O3-C2
5	Ca	302	A1A0P	C7-C4-O3-C2
5	Ca	302	A1A0P	C11-O10-P14-O9
5	Ca	302	A1A0P	C11-O10-P14-O15
5	Ca	302	A1A0P	C11-O10-P14-O16
5	Ca	302	A1A0P	C37-C38-C39-C40
5	Ca	303	A1A0P	C11-O10-P14-O15
5	Ca	303	A1A0P	C11-O10-P14-O16
5	Ca	303	A1A0P	O10-C11-C12-N13
5	Ca	304	A1A0P	O18-C17-O6-C1
5	Ca	304	A1A0P	C19-C17-O6-C1
5	Ca	304	A1A0P	C1-C8-O9-P14
5	Ca	304	A1A0P	C8-O9-P14-O15
5	Ca	304	A1A0P	C11-O10-P14-O9
5	Ca	304	A1A0P	C11-O10-P14-O15
5	Ca	304	A1A0P	C11-O10-P14-O16
5	Ca	304	A1A0P	O10-C11-C12-N13
5	Ca	305	A1A0P	C8-O9-P14-O15

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Mol	Chain	Res	Type	Atoms
5	Ca	305	A1A0P	O10-C11-C12-N13
5	Ca	306	A1A0P	O18-C17-O6-C1
5	Ca	306	A1A0P	C19-C17-O6-C1
5	Ca	306	A1A0P	C11-O10-P14-O9
5	Ca	306	A1A0P	C11-O10-P14-O16
5	Ca	307	A1A0P	O5-C4-O3-C2
5	Ca	307	A1A0P	C7-C4-O3-C2
5	Ca	307	A1A0P	C1-C8-O9-P14
5	Ca	307	A1A0P	C12-C11-O10-P14
5	Ca	307	A1A0P	C11-O10-P14-O9
5	Ca	307	A1A0P	C11-O10-P14-O15
5	Ca	307	A1A0P	O10-C11-C12-N13
5	Ca	308	A1A0P	C8-O9-P14-O10
5	Ca	308	A1A0P	C8-O9-P14-O15
5	Ca	308	A1A0P	C8-O9-P14-O16
5	Ca	308	A1A0P	C12-C11-O10-P14
5	Ca	308	A1A0P	C11-O10-P14-O9
5	Ca	308	A1A0P	C11-O10-P14-O16
5	Ca	308	A1A0P	O10-C11-C12-N13
5	Cb	301	A1A0P	C11-O10-P14-O9
5	Cb	301	A1A0P	C11-O10-P14-O15
5	Cb	301	A1A0P	C11-O10-P14-O16
5	Cb	302	A1A0P	O5-C4-O3-C2
5	Cb	302	A1A0P	C7-C4-O3-C2
5	Cb	302	A1A0P	C11-O10-P14-O9
5	Cb	302	A1A0P	C11-O10-P14-O15
5	Cb	302	A1A0P	C11-O10-P14-O16
5	Cb	302	A1A0P	C37-C38-C39-C40
5	Cb	303	A1A0P	C11-O10-P14-O15
5	Cb	303	A1A0P	C11-O10-P14-O16
5	Cb	303	A1A0P	O10-C11-C12-N13
5	Cb	304	A1A0P	O18-C17-O6-C1
5	Cb	304	A1A0P	C19-C17-O6-C1
5	Cb	304	A1A0P	C1-C8-O9-P14
5	Cb	304	A1A0P	C8-O9-P14-O15
5	Cb	304	A1A0P	C11-O10-P14-O9
5	Cb	304	A1A0P	C11-O10-P14-O15
5	Cb	304	A1A0P	C11-O10-P14-O16
5	Cb	304	A1A0P	O10-C11-C12-N13
5	Cb	305	A1A0P	C8-O9-P14-O15
5	Cb	305	A1A0P	O10-C11-C12-N13
5	Cb	306	A1A0P	O18-C17-O6-C1

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Mol	Chain	Res	Type	Atoms
5	Cb	306	A1A0P	C19-C17-O6-C1
5	Cb	306	A1A0P	C11-O10-P14-O9
5	Cb	306	A1A0P	C11-O10-P14-O16
5	Cb	307	A1A0P	O5-C4-O3-C2
5	Cb	307	A1A0P	C7-C4-O3-C2
5	Cb	307	A1A0P	C1-C8-O9-P14
5	Cb	307	A1A0P	C12-C11-O10-P14
5	Cb	307	A1A0P	C11-O10-P14-O9
5	Cb	307	A1A0P	C11-O10-P14-O15
5	Cb	307	A1A0P	O10-C11-C12-N13
5	Cb	308	A1A0P	C8-O9-P14-O10
5	Cb	308	A1A0P	C8-O9-P14-O15
5	Cb	308	A1A0P	C8-O9-P14-O16
5	Cb	308	A1A0P	C12-C11-O10-P14
5	Cb	308	A1A0P	C11-O10-P14-O9
5	Cb	308	A1A0P	C11-O10-P14-O16
5	Cb	308	A1A0P	O10-C11-C12-N13
5	Cc	301	A1A0P	C11-O10-P14-O9
5	Cc	301	A1A0P	C11-O10-P14-O15
5	Cc	301	A1A0P	C11-O10-P14-O16
5	Cc	302	A1A0P	O5-C4-O3-C2
5	Cc	302	A1A0P	C7-C4-O3-C2
5	Cc	302	A1A0P	C11-O10-P14-O9
5	Cc	302	A1A0P	C11-O10-P14-O15
5	Cc	302	A1A0P	C11-O10-P14-O16
5	Cc	302	A1A0P	C37-C38-C39-C40
5	Cc	303	A1A0P	C11-O10-P14-O15
5	Cc	303	A1A0P	C11-O10-P14-O16
5	Cc	303	A1A0P	O10-C11-C12-N13
5	Cc	304	A1A0P	O18-C17-O6-C1
5	Cc	304	A1A0P	C19-C17-O6-C1
5	Cc	304	A1A0P	C1-C8-O9-P14
5	Cc	304	A1A0P	C8-O9-P14-O15
5	Cc	304	A1A0P	C11-O10-P14-O9
5	Cc	304	A1A0P	C11-O10-P14-O15
5	Cc	304	A1A0P	C11-O10-P14-O16
5	Cc	304	A1A0P	O10-C11-C12-N13
5	Cc	305	A1A0P	C8-O9-P14-O15
5	Cc	305	A1A0P	O10-C11-C12-N13
5	Cc	306	A1A0P	O18-C17-O6-C1
5	Cc	306	A1A0P	C19-C17-O6-C1
5	Cc	306	A1A0P	C11-O10-P14-O9

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Mol	Chain	Res	Type	Atoms
5	Cc	306	A1A0P	C11-O10-P14-O16
5	Cc	307	A1A0P	O5-C4-O3-C2
5	Cc	307	A1A0P	C7-C4-O3-C2
5	Cc	307	A1A0P	C1-C8-O9-P14
5	Cc	307	A1A0P	C12-C11-O10-P14
5	Cc	307	A1A0P	C11-O10-P14-O9
5	Cc	307	A1A0P	C11-O10-P14-O15
5	Cc	307	A1A0P	O10-C11-C12-N13
5	Cc	308	A1A0P	C8-O9-P14-O10
5	Cc	308	A1A0P	C8-O9-P14-O15
5	Cc	308	A1A0P	C8-O9-P14-O16
5	Cc	308	A1A0P	C12-C11-O10-P14
5	Cc	308	A1A0P	C11-O10-P14-O9
5	Cc	308	A1A0P	C11-O10-P14-O16
5	Cc	308	A1A0P	O10-C11-C12-N13
5	Cd	301	A1A0P	C11-O10-P14-O9
5	Cd	301	A1A0P	C11-O10-P14-O15
5	Cd	301	A1A0P	C11-O10-P14-O16
5	Cd	302	A1A0P	O5-C4-O3-C2
5	Cd	302	A1A0P	C7-C4-O3-C2
5	Cd	302	A1A0P	C11-O10-P14-O9
5	Cd	302	A1A0P	C11-O10-P14-O15
5	Cd	302	A1A0P	C11-O10-P14-O16
5	Cd	302	A1A0P	C37-C38-C39-C40
5	Cd	303	A1A0P	C11-O10-P14-O15
5	Cd	303	A1A0P	C11-O10-P14-O16
5	Cd	303	A1A0P	O10-C11-C12-N13
5	Cd	304	A1A0P	O18-C17-O6-C1
5	Cd	304	A1A0P	C19-C17-O6-C1
5	Cd	304	A1A0P	C1-C8-O9-P14
5	Cd	304	A1A0P	C8-O9-P14-O15
5	Cd	304	A1A0P	C11-O10-P14-O9
5	Cd	304	A1A0P	C11-O10-P14-O15
5	Cd	304	A1A0P	C11-O10-P14-O16
5	Cd	304	A1A0P	O10-C11-C12-N13
5	Cd	305	A1A0P	C8-O9-P14-O15
5	Cd	305	A1A0P	O10-C11-C12-N13
5	Cd	306	A1A0P	O18-C17-O6-C1
5	Cd	306	A1A0P	C19-C17-O6-C1
5	Cd	306	A1A0P	C11-O10-P14-O9
5	Cd	306	A1A0P	C11-O10-P14-O16
5	Cd	307	A1A0P	O5-C4-O3-C2

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Mol	Chain	Res	Type	Atoms
5	Cd	307	A1A0P	C7-C4-O3-C2
5	Cd	307	A1A0P	C1-C8-O9-P14
5	Cd	307	A1A0P	C12-C11-O10-P14
5	Cd	307	A1A0P	C11-O10-P14-O9
5	Cd	307	A1A0P	C11-O10-P14-O15
5	Cd	307	A1A0P	O10-C11-C12-N13
5	Cd	308	A1A0P	C8-O9-P14-O10
5	Cd	308	A1A0P	C8-O9-P14-O15
5	Cd	308	A1A0P	C8-O9-P14-O16
5	Cd	308	A1A0P	C12-C11-O10-P14
5	Cd	308	A1A0P	C11-O10-P14-O9
5	Cd	308	A1A0P	C11-O10-P14-O16
5	Cd	308	A1A0P	O10-C11-C12-N13
5	Ce	301	A1A0P	C11-O10-P14-O9
5	Ce	301	A1A0P	C11-O10-P14-O15
5	Ce	301	A1A0P	C11-O10-P14-O16
5	Ce	302	A1A0P	O5-C4-O3-C2
5	Ce	302	A1A0P	C7-C4-O3-C2
5	Ce	302	A1A0P	C11-O10-P14-O9
5	Ce	302	A1A0P	C11-O10-P14-O15
5	Ce	302	A1A0P	C11-O10-P14-O16
5	Ce	302	A1A0P	C37-C38-C39-C40
5	Ce	303	A1A0P	C11-O10-P14-O15
5	Ce	303	A1A0P	C11-O10-P14-O16
5	Ce	303	A1A0P	O10-C11-C12-N13
5	Ce	304	A1A0P	O18-C17-O6-C1
5	Ce	304	A1A0P	C19-C17-O6-C1
5	Ce	304	A1A0P	C1-C8-O9-P14
5	Ce	304	A1A0P	C8-O9-P14-O15
5	Ce	304	A1A0P	C11-O10-P14-O9
5	Ce	304	A1A0P	C11-O10-P14-O15
5	Ce	304	A1A0P	C11-O10-P14-O16
5	Ce	304	A1A0P	O10-C11-C12-N13
5	Ce	305	A1A0P	C8-O9-P14-O15
5	Ce	305	A1A0P	O10-C11-C12-N13
5	Ce	306	A1A0P	O18-C17-O6-C1
5	Ce	306	A1A0P	C19-C17-O6-C1
5	Ce	306	A1A0P	C11-O10-P14-O9
5	Ce	306	A1A0P	C11-O10-P14-O16
5	Ce	307	A1A0P	O5-C4-O3-C2
5	Ce	307	A1A0P	C7-C4-O3-C2
5	Ce	307	A1A0P	C1-C8-O9-P14

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Mol	Chain	Res	Type	Atoms
5	Ce	307	A1A0P	C12-C11-O10-P14
5	Ce	307	A1A0P	C11-O10-P14-O9
5	Ce	307	A1A0P	C11-O10-P14-O15
5	Ce	307	A1A0P	O10-C11-C12-N13
5	Ce	308	A1A0P	C8-O9-P14-O10
5	Ce	308	A1A0P	C8-O9-P14-O15
5	Ce	308	A1A0P	C8-O9-P14-O16
5	Ce	308	A1A0P	C12-C11-O10-P14
5	Ce	308	A1A0P	C11-O10-P14-O9
5	Ce	308	A1A0P	C11-O10-P14-O16
5	Ce	308	A1A0P	O10-C11-C12-N13
5	Cf	301	A1A0P	C11-O10-P14-O9
5	Cf	301	A1A0P	C11-O10-P14-O15
5	Cf	301	A1A0P	C11-O10-P14-O16
5	Cf	302	A1A0P	O5-C4-O3-C2
5	Cf	302	A1A0P	C7-C4-O3-C2
5	Cf	302	A1A0P	C11-O10-P14-O9
5	Cf	302	A1A0P	C11-O10-P14-O15
5	Cf	302	A1A0P	C11-O10-P14-O16
5	Cf	302	A1A0P	C37-C38-C39-C40
5	Cf	303	A1A0P	C11-O10-P14-O15
5	Cf	303	A1A0P	C11-O10-P14-O16
5	Cf	303	A1A0P	O10-C11-C12-N13
5	Cf	304	A1A0P	O18-C17-O6-C1
5	Cf	304	A1A0P	C19-C17-O6-C1
5	Cf	304	A1A0P	C1-C8-O9-P14
5	Cf	304	A1A0P	C8-O9-P14-O15
5	Cf	304	A1A0P	C11-O10-P14-O9
5	Cf	304	A1A0P	C11-O10-P14-O15
5	Cf	304	A1A0P	C11-O10-P14-O16
5	Cf	304	A1A0P	O10-C11-C12-N13
5	Cf	305	A1A0P	C8-O9-P14-O15
5	Cf	305	A1A0P	O10-C11-C12-N13
5	Cf	306	A1A0P	O18-C17-O6-C1
5	Cf	306	A1A0P	C19-C17-O6-C1
5	Cf	306	A1A0P	C11-O10-P14-O9
5	Cf	306	A1A0P	C11-O10-P14-O16
5	Cf	307	A1A0P	O5-C4-O3-C2
5	Cf	307	A1A0P	C7-C4-O3-C2
5	Cf	307	A1A0P	C1-C8-O9-P14
5	Cf	307	A1A0P	C12-C11-O10-P14
5	Cf	307	A1A0P	C11-O10-P14-O9

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Mol	Chain	Res	Type	Atoms
5	Cf	307	A1A0P	C11-O10-P14-O15
5	Cf	307	A1A0P	O10-C11-C12-N13
5	Cf	308	A1A0P	C8-O9-P14-O10
5	Cf	308	A1A0P	C8-O9-P14-O15
5	Cf	308	A1A0P	C8-O9-P14-O16
5	Cf	308	A1A0P	C12-C11-O10-P14
5	Cf	308	A1A0P	C11-O10-P14-O9
5	Cf	308	A1A0P	O10-C11-C12-N13
5	Cg	301	A1A0P	C11-O10-P14-O9
5	Cg	301	A1A0P	C11-O10-P14-O15
5	Cg	301	A1A0P	C11-O10-P14-O16
5	Cg	302	A1A0P	O5-C4-O3-C2
5	Cg	302	A1A0P	C7-C4-O3-C2
5	Cg	302	A1A0P	C11-O10-P14-O9
5	Cg	302	A1A0P	C11-O10-P14-O15
5	Cg	302	A1A0P	C11-O10-P14-O16
5	Cg	302	A1A0P	C37-C38-C39-C40
5	Cg	303	A1A0P	C11-O10-P14-O15
5	Cg	303	A1A0P	C11-O10-P14-O16
5	Cg	303	A1A0P	O10-C11-C12-N13
5	Cg	304	A1A0P	O18-C17-O6-C1
5	Cg	304	A1A0P	C19-C17-O6-C1
5	Cg	304	A1A0P	C1-C8-O9-P14
5	Cg	304	A1A0P	C8-O9-P14-O15
5	Cg	304	A1A0P	C11-O10-P14-O9
5	Cg	304	A1A0P	C11-O10-P14-O15
5	Cg	304	A1A0P	C11-O10-P14-O16
5	Cg	304	A1A0P	O10-C11-C12-N13
5	Cg	305	A1A0P	C8-O9-P14-O15
5	Cg	305	A1A0P	O10-C11-C12-N13
5	Cg	306	A1A0P	O18-C17-O6-C1
5	Cg	306	A1A0P	C19-C17-O6-C1
5	Cg	306	A1A0P	C11-O10-P14-O9
5	Cg	306	A1A0P	C11-O10-P14-O16
5	Cg	307	A1A0P	O5-C4-O3-C2
5	Cg	307	A1A0P	C7-C4-O3-C2
5	Cg	307	A1A0P	C1-C8-O9-P14
5	Cg	307	A1A0P	C12-C11-O10-P14
5	Cg	307	A1A0P	C11-O10-P14-O9
5	Cg	307	A1A0P	C11-O10-P14-O15
5	Cg	307	A1A0P	O10-C11-C12-N13
5	Cg	308	A1A0P	C8-O9-P14-O10

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Mol	Chain	Res	Type	Atoms
5	Cg	308	A1A0P	C8-O9-P14-O15
5	Cg	308	A1A0P	C8-O9-P14-O16
5	Cg	308	A1A0P	C12-C11-O10-P14
5	Cg	308	A1A0P	C11-O10-P14-O9
5	Cg	308	A1A0P	C11-O10-P14-O16
5	Cg	308	A1A0P	O10-C11-C12-N13
5	Ch	301	A1A0P	C11-O10-P14-O9
5	Ch	301	A1A0P	C11-O10-P14-O15
5	Ch	301	A1A0P	C11-O10-P14-O16
5	Ch	302	A1A0P	O5-C4-O3-C2
5	Ch	302	A1A0P	C7-C4-O3-C2
5	Ch	302	A1A0P	C11-O10-P14-O9
5	Ch	302	A1A0P	C11-O10-P14-O15
5	Ch	302	A1A0P	C11-O10-P14-O16
5	Ch	302	A1A0P	C37-C38-C39-C40
5	Ch	303	A1A0P	C11-O10-P14-O15
5	Ch	303	A1A0P	C11-O10-P14-O16
5	Ch	303	A1A0P	O10-C11-C12-N13
5	Ch	304	A1A0P	O18-C17-O6-C1
5	Ch	304	A1A0P	C19-C17-O6-C1
5	Ch	304	A1A0P	C1-C8-O9-P14
5	Ch	304	A1A0P	C8-O9-P14-O15
5	Ch	304	A1A0P	C11-O10-P14-O9
5	Ch	304	A1A0P	C11-O10-P14-O15
5	Ch	304	A1A0P	C11-O10-P14-O16
5	Ch	304	A1A0P	O10-C11-C12-N13
5	Ch	305	A1A0P	C8-O9-P14-O15
5	Ch	305	A1A0P	O10-C11-C12-N13
5	Ch	306	A1A0P	O18-C17-O6-C1
5	Ch	306	A1A0P	C19-C17-O6-C1
5	Ch	306	A1A0P	C11-O10-P14-O9
5	Ch	306	A1A0P	C11-O10-P14-O16
5	Ch	307	A1A0P	O5-C4-O3-C2
5	Ch	307	A1A0P	C7-C4-O3-C2
5	Ch	307	A1A0P	C1-C8-O9-P14
5	Ch	307	A1A0P	C12-C11-O10-P14
5	Ch	307	A1A0P	C11-O10-P14-O9
5	Ch	307	A1A0P	C11-O10-P14-O15
5	Ch	307	A1A0P	O10-C11-C12-N13
5	Ch	308	A1A0P	C8-O9-P14-O10
5	Ch	308	A1A0P	C8-O9-P14-O15
5	Ch	308	A1A0P	C8-O9-P14-O16

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Mol	Chain	Res	Type	Atoms
5	Ch	308	A1A0P	C12-C11-O10-P14
5	Ch	308	A1A0P	C11-O10-P14-O9
5	Ch	308	A1A0P	O10-C11-C12-N13
5	Ci	301	A1A0P	C11-O10-P14-O9
5	Ci	301	A1A0P	C11-O10-P14-O15
5	Ci	301	A1A0P	C11-O10-P14-O16
5	Ci	302	A1A0P	O5-C4-O3-C2
5	Ci	302	A1A0P	C7-C4-O3-C2
5	Ci	302	A1A0P	C11-O10-P14-O9
5	Ci	302	A1A0P	C11-O10-P14-O15
5	Ci	302	A1A0P	C11-O10-P14-O16
5	Ci	302	A1A0P	C37-C38-C39-C40
5	Ci	303	A1A0P	C11-O10-P14-O15
5	Ci	303	A1A0P	C11-O10-P14-O16
5	Ci	303	A1A0P	O10-C11-C12-N13
5	Ci	304	A1A0P	O18-C17-O6-C1
5	Ci	304	A1A0P	C19-C17-O6-C1
5	Ci	304	A1A0P	C1-C8-O9-P14
5	Ci	304	A1A0P	C8-O9-P14-O15
5	Ci	304	A1A0P	C11-O10-P14-O9
5	Ci	304	A1A0P	C11-O10-P14-O15
5	Ci	304	A1A0P	C11-O10-P14-O16
5	Ci	304	A1A0P	O10-C11-C12-N13
5	Ci	305	A1A0P	C8-O9-P14-O15
5	Ci	305	A1A0P	O10-C11-C12-N13
5	Ci	306	A1A0P	O18-C17-O6-C1
5	Ci	306	A1A0P	C19-C17-O6-C1
5	Ci	306	A1A0P	C11-O10-P14-O9
5	Ci	306	A1A0P	C11-O10-P14-O16
5	Ci	307	A1A0P	O5-C4-O3-C2
5	Ci	307	A1A0P	C7-C4-O3-C2
5	Ci	307	A1A0P	C1-C8-O9-P14
5	Ci	307	A1A0P	C12-C11-O10-P14
5	Ci	307	A1A0P	C11-O10-P14-O9
5	Ci	307	A1A0P	C11-O10-P14-O15
5	Ci	307	A1A0P	O10-C11-C12-N13
5	Ci	308	A1A0P	C8-O9-P14-O10
5	Ci	308	A1A0P	C8-O9-P14-O15
5	Ci	308	A1A0P	C8-O9-P14-O16
5	Ci	308	A1A0P	C12-C11-O10-P14
5	Ci	308	A1A0P	C11-O10-P14-O9
5	Ci	308	A1A0P	C11-O10-P14-O16

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Mol	Chain	Res	Type	Atoms
5	Ci	308	A1A0P	O10-C11-C12-N13
5	Ba	308	A1A0P	O5-C4-O3-C2
5	Bb	309	A1A0P	O5-C4-O3-C2
5	Bc	307	A1A0P	O5-C4-O3-C2
5	Bd	308	A1A0P	O5-C4-O3-C2
5	Be	307	A1A0P	O5-C4-O3-C2
5	Bf	308	A1A0P	O5-C4-O3-C2
5	Bg	308	A1A0P	O5-C4-O3-C2
5	Bh	308	A1A0P	O5-C4-O3-C2
5	Bi	307	A1A0P	O5-C4-O3-C2
5	Ca	305	A1A0P	C19-C20-C21-C22
5	Cb	305	A1A0P	C19-C20-C21-C22
5	Cc	305	A1A0P	C19-C20-C21-C22
5	Cd	305	A1A0P	C19-C20-C21-C22
5	Ce	305	A1A0P	C19-C20-C21-C22
5	Cf	305	A1A0P	C19-C20-C21-C22
5	Cg	305	A1A0P	C19-C20-C21-C22
5	Ch	305	A1A0P	C19-C20-C21-C22
5	Ci	305	A1A0P	C19-C20-C21-C22
5	Ba	309	A1A0P	C1-C8-O9-P14
5	Bb	307	A1A0P	C1-C8-O9-P14
5	Bc	308	A1A0P	C1-C8-O9-P14
5	Bd	309	A1A0P	C1-C8-O9-P14
5	Be	308	A1A0P	C1-C8-O9-P14
5	Bf	307	A1A0P	C1-C8-O9-P14
5	Bg	309	A1A0P	C1-C8-O9-P14
5	Bh	307	A1A0P	C1-C8-O9-P14
5	Bi	308	A1A0P	C1-C8-O9-P14
5	Aa	503	A1A0P	C35-C34-C7-C4
5	Ab	503	A1A0P	C35-C34-C7-C4
5	Ac	503	A1A0P	C35-C34-C7-C4
5	Ad	503	A1A0P	C35-C34-C7-C4
5	Ae	503	A1A0P	C35-C34-C7-C4
5	Af	503	A1A0P	C35-C34-C7-C4
5	Ag	503	A1A0P	C35-C34-C7-C4
5	Ah	503	A1A0P	C35-C34-C7-C4
5	Ai	503	A1A0P	C35-C34-C7-C4
5	Bb	302	A1A0P	C35-C34-C7-C4
5	Bc	302	A1A0P	C35-C34-C7-C4
5	Bd	303	A1A0P	C35-C34-C7-C4
5	Be	302	A1A0P	C35-C34-C7-C4
5	Bf	302	A1A0P	C35-C34-C7-C4

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Mol	Chain	Res	Type	Atoms
5	Bh	302	A1A0P	C35-C34-C7-C4
5	Bi	302	A1A0P	C35-C34-C7-C4
5	Ba	303	A1A0P	C35-C34-C7-C4
5	Bg	303	A1A0P	C35-C34-C7-C4
5	Ca	307	A1A0P	C19-C20-C21-C22
5	Cb	307	A1A0P	C19-C20-C21-C22
5	Cc	307	A1A0P	C19-C20-C21-C22
5	Cd	307	A1A0P	C19-C20-C21-C22
5	Ce	307	A1A0P	C19-C20-C21-C22
5	Cf	307	A1A0P	C19-C20-C21-C22
5	Cg	307	A1A0P	C19-C20-C21-C22
5	Ch	307	A1A0P	C19-C20-C21-C22
5	Ci	307	A1A0P	C19-C20-C21-C22
5	Ca	306	A1A0P	C41-C42-C43-C44
5	Cb	306	A1A0P	C41-C42-C43-C44
5	Cc	306	A1A0P	C41-C42-C43-C44
5	Cd	306	A1A0P	C41-C42-C43-C44
5	Ce	306	A1A0P	C41-C42-C43-C44
5	Cf	306	A1A0P	C41-C42-C43-C44
5	Cg	306	A1A0P	C41-C42-C43-C44
5	Ch	306	A1A0P	C41-C42-C43-C44
5	Ci	306	A1A0P	C41-C42-C43-C44
5	Ca	306	A1A0P	C44-C45-C46-C47
5	Cb	306	A1A0P	C44-C45-C46-C47
5	Cc	306	A1A0P	C44-C45-C46-C47
5	Cd	306	A1A0P	C44-C45-C46-C47
5	Ce	306	A1A0P	C44-C45-C46-C47
5	Cg	306	A1A0P	C44-C45-C46-C47
5	Ch	306	A1A0P	C44-C45-C46-C47
5	Ci	306	A1A0P	C44-C45-C46-C47
5	Cf	306	A1A0P	C44-C45-C46-C47
5	Ba	305	A1A0P	C35-C34-C7-C4
5	Bb	304	A1A0P	C35-C34-C7-C4
5	Bc	304	A1A0P	C35-C34-C7-C4
5	Bd	305	A1A0P	C35-C34-C7-C4
5	Be	304	A1A0P	C35-C34-C7-C4
5	Bf	304	A1A0P	C35-C34-C7-C4
5	Bg	305	A1A0P	C35-C34-C7-C4
5	Bh	304	A1A0P	C35-C34-C7-C4
5	Bi	304	A1A0P	C35-C34-C7-C4
5	Ba	305	A1A0P	C17-C19-C20-C21
5	Bb	304	A1A0P	C17-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
5	Bc	304	A1A0P	C17-C19-C20-C21
5	Bd	305	A1A0P	C17-C19-C20-C21
5	Be	304	A1A0P	C17-C19-C20-C21
5	Bf	304	A1A0P	C17-C19-C20-C21
5	Bg	305	A1A0P	C17-C19-C20-C21
5	Bh	304	A1A0P	C17-C19-C20-C21
5	Bi	304	A1A0P	C17-C19-C20-C21
5	Ba	302	A1A0P	O6-C1-C2-O3
5	Bb	301	A1A0P	O6-C1-C2-O3
5	Bc	301	A1A0P	O6-C1-C2-O3
5	Bd	302	A1A0P	O6-C1-C2-O3
5	Be	301	A1A0P	O6-C1-C2-O3
5	Bf	301	A1A0P	O6-C1-C2-O3
5	Bg	302	A1A0P	O6-C1-C2-O3
5	Bh	301	A1A0P	O6-C1-C2-O3
5	Bi	301	A1A0P	O6-C1-C2-O3
5	Cb	301	A1A0P	C35-C34-C7-C4
5	Cc	301	A1A0P	C35-C34-C7-C4
5	Cd	301	A1A0P	C35-C34-C7-C4
5	Ce	301	A1A0P	C35-C34-C7-C4
5	Cf	301	A1A0P	C35-C34-C7-C4
5	Cg	301	A1A0P	C35-C34-C7-C4
5	Ch	301	A1A0P	C35-C34-C7-C4
5	Ci	301	A1A0P	C35-C34-C7-C4
5	Ca	301	A1A0P	C35-C34-C7-C4
5	Ca	308	A1A0P	C1-C8-O9-P14
5	Cb	308	A1A0P	C1-C8-O9-P14
5	Cc	308	A1A0P	C1-C8-O9-P14
5	Cd	308	A1A0P	C1-C8-O9-P14
5	Ce	308	A1A0P	C1-C8-O9-P14
5	Cf	308	A1A0P	C1-C8-O9-P14
5	Cg	308	A1A0P	C1-C8-O9-P14
5	Ch	308	A1A0P	C1-C8-O9-P14
5	Ci	308	A1A0P	C1-C8-O9-P14
5	Ba	303	A1A0P	C17-C19-C20-C21
5	Bb	302	A1A0P	C17-C19-C20-C21
5	Bc	302	A1A0P	C17-C19-C20-C21
5	Bd	303	A1A0P	C17-C19-C20-C21
5	Be	302	A1A0P	C17-C19-C20-C21
5	Bf	302	A1A0P	C17-C19-C20-C21
5	Bg	303	A1A0P	C17-C19-C20-C21
5	Bh	302	A1A0P	C17-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
5	Bi	302	A1A0P	C17-C19-C20-C21
5	Ca	306	A1A0P	C35-C34-C7-C4
5	Cb	306	A1A0P	C35-C34-C7-C4
5	Cc	306	A1A0P	C35-C34-C7-C4
5	Cd	306	A1A0P	C35-C34-C7-C4
5	Ce	306	A1A0P	C35-C34-C7-C4
5	Cf	306	A1A0P	C35-C34-C7-C4
5	Cg	306	A1A0P	C35-C34-C7-C4
5	Ch	306	A1A0P	C35-C34-C7-C4
5	Ci	306	A1A0P	C35-C34-C7-C4
5	Be	304	A1A0P	C35-C36-C37-C38
5	Bg	305	A1A0P	C35-C36-C37-C38
5	Ba	305	A1A0P	C35-C36-C37-C38
5	Bb	304	A1A0P	C35-C36-C37-C38
5	Bc	304	A1A0P	C35-C36-C37-C38
5	Bd	305	A1A0P	C35-C36-C37-C38
5	Bf	304	A1A0P	C35-C36-C37-C38
5	Bh	304	A1A0P	C35-C36-C37-C38
5	Bi	304	A1A0P	C35-C36-C37-C38
5	Cg	308	A1A0P	C29-C30-C31-C32
5	Ch	308	A1A0P	C29-C30-C31-C32
5	Ci	308	A1A0P	C29-C30-C31-C32
5	Ca	308	A1A0P	C29-C30-C31-C32
5	Cb	308	A1A0P	C29-C30-C31-C32
5	Cc	308	A1A0P	C29-C30-C31-C32
5	Cd	308	A1A0P	C29-C30-C31-C32
5	Ce	308	A1A0P	C29-C30-C31-C32
5	Cf	308	A1A0P	C29-C30-C31-C32
5	Ba	308	A1A0P	C34-C35-C36-C37
5	Bc	307	A1A0P	C34-C35-C36-C37
5	Bd	308	A1A0P	C34-C35-C36-C37
5	Be	307	A1A0P	C34-C35-C36-C37
5	Bg	308	A1A0P	C34-C35-C36-C37
5	Bh	308	A1A0P	C34-C35-C36-C37
5	Bb	309	A1A0P	C34-C35-C36-C37
5	Bf	308	A1A0P	C34-C35-C36-C37
5	Bi	307	A1A0P	C34-C35-C36-C37
5	Ca	307	A1A0P	C37-C38-C39-C40
5	Cb	307	A1A0P	C37-C38-C39-C40
5	Cc	307	A1A0P	C37-C38-C39-C40
5	Cd	307	A1A0P	C37-C38-C39-C40
5	Ce	307	A1A0P	C37-C38-C39-C40

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Mol	Chain	Res	Type	Atoms
5	Cf	307	A1A0P	C37-C38-C39-C40
5	Cg	307	A1A0P	C37-C38-C39-C40
5	Ch	307	A1A0P	C37-C38-C39-C40
5	Ci	307	A1A0P	C37-C38-C39-C40
5	Ca	307	A1A0P	C35-C34-C7-C4
5	Cb	307	A1A0P	C35-C34-C7-C4
5	Cc	307	A1A0P	C35-C34-C7-C4
5	Cd	307	A1A0P	C35-C34-C7-C4
5	Ce	307	A1A0P	C35-C34-C7-C4
5	Cf	307	A1A0P	C35-C34-C7-C4
5	Cg	307	A1A0P	C35-C34-C7-C4
5	Ch	307	A1A0P	C35-C34-C7-C4
5	Ci	307	A1A0P	C35-C34-C7-C4
5	Ca	304	A1A0P	C17-C19-C20-C21
5	Cb	304	A1A0P	C17-C19-C20-C21
5	Cc	304	A1A0P	C17-C19-C20-C21
5	Cd	304	A1A0P	C17-C19-C20-C21
5	Ce	304	A1A0P	C17-C19-C20-C21
5	Cf	304	A1A0P	C17-C19-C20-C21
5	Cg	304	A1A0P	C17-C19-C20-C21
5	Ch	304	A1A0P	C17-C19-C20-C21
5	Ci	304	A1A0P	C17-C19-C20-C21
5	Aa	502	A1A0P	C28-C29-C30-C31
5	Aa	503	A1A0P	C43-C44-C45-C46
5	Af	503	A1A0P	C43-C44-C45-C46
5	Ag	502	A1A0P	C28-C29-C30-C31
5	Ag	503	A1A0P	C43-C44-C45-C46
5	Ai	502	A1A0P	C28-C29-C30-C31
5	Ab	503	A1A0P	C43-C44-C45-C46
5	Ac	502	A1A0P	C28-C29-C30-C31
5	Ac	503	A1A0P	C43-C44-C45-C46
5	Ad	503	A1A0P	C43-C44-C45-C46
5	Ae	503	A1A0P	C43-C44-C45-C46
5	Af	502	A1A0P	C28-C29-C30-C31
5	Ah	503	A1A0P	C43-C44-C45-C46
5	Ai	503	A1A0P	C43-C44-C45-C46
5	Ba	302	A1A0P	C24-C25-C26-C27
5	Ba	304	A1A0P	C20-C21-C22-C23
5	Ba	306	A1A0P	C27-C28-C29-C30
5	Bb	301	A1A0P	C24-C25-C26-C27
5	Bb	303	A1A0P	C20-C21-C22-C23
5	Bc	301	A1A0P	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
5	Bd	302	A1A0P	C24-C25-C26-C27
5	Bd	304	A1A0P	C20-C21-C22-C23
5	Be	301	A1A0P	C24-C25-C26-C27
5	Be	303	A1A0P	C20-C21-C22-C23
5	Bf	303	A1A0P	C20-C21-C22-C23
5	Bg	304	A1A0P	C20-C21-C22-C23
5	Bg	306	A1A0P	C27-C28-C29-C30
5	Bh	303	A1A0P	C20-C21-C22-C23
5	Bi	301	A1A0P	C24-C25-C26-C27
5	Bi	303	A1A0P	C20-C21-C22-C23
5	Bi	305	A1A0P	C27-C28-C29-C30
5	Ab	502	A1A0P	C28-C29-C30-C31
5	Ab	503	A1A0P	C23-C24-C25-C26
5	Ad	502	A1A0P	C28-C29-C30-C31
5	Ad	503	A1A0P	C23-C24-C25-C26
5	Ae	502	A1A0P	C28-C29-C30-C31
5	Ah	502	A1A0P	C28-C29-C30-C31
5	Ah	503	A1A0P	C23-C24-C25-C26
5	Ai	503	A1A0P	C23-C24-C25-C26
5	Bb	301	A1A0P	C21-C22-C23-C24
5	Bb	305	A1A0P	C27-C28-C29-C30
5	Bb	305	A1A0P	C36-C37-C38-C39
5	Bc	303	A1A0P	C20-C21-C22-C23
5	Bc	305	A1A0P	C27-C28-C29-C30
5	Bd	306	A1A0P	C27-C28-C29-C30
5	Be	301	A1A0P	C21-C22-C23-C24
5	Be	305	A1A0P	C27-C28-C29-C30
5	Be	305	A1A0P	C36-C37-C38-C39
5	Bf	301	A1A0P	C24-C25-C26-C27
5	Bf	305	A1A0P	C27-C28-C29-C30
5	Bf	305	A1A0P	C36-C37-C38-C39
5	Bg	302	A1A0P	C21-C22-C23-C24
5	Bg	302	A1A0P	C24-C25-C26-C27
5	Bg	306	A1A0P	C36-C37-C38-C39
5	Bh	301	A1A0P	C21-C22-C23-C24
5	Bh	301	A1A0P	C24-C25-C26-C27
5	Bh	305	A1A0P	C27-C28-C29-C30
5	Bh	305	A1A0P	C36-C37-C38-C39
5	Bi	301	A1A0P	C21-C22-C23-C24
5	Bi	305	A1A0P	C36-C37-C38-C39
5	Ca	302	A1A0P	C26-C27-C28-C29
5	Ca	303	A1A0P	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
5	Cc	302	A1A0P	C26-C27-C28-C29
5	Cf	302	A1A0P	C26-C27-C28-C29
5	Ba	302	A1A0P	C21-C22-C23-C24
5	Ba	303	A1A0P	C36-C37-C38-C39
5	Ba	306	A1A0P	C36-C37-C38-C39
5	Ba	308	A1A0P	C21-C22-C23-C24
5	Bb	301	A1A0P	C22-C23-C24-C25
5	Bb	309	A1A0P	C21-C22-C23-C24
5	Bc	301	A1A0P	C21-C22-C23-C24
5	Bc	307	A1A0P	C21-C22-C23-C24
5	Bd	302	A1A0P	C21-C22-C23-C24
5	Bd	308	A1A0P	C21-C22-C23-C24
5	Bd	309	A1A0P	C42-C43-C44-C45
5	Be	307	A1A0P	C21-C22-C23-C24
5	Bf	301	A1A0P	C21-C22-C23-C24
5	Bf	308	A1A0P	C21-C22-C23-C24
5	Bg	308	A1A0P	C21-C22-C23-C24
5	Bh	302	A1A0P	C36-C37-C38-C39
5	Bh	308	A1A0P	C21-C22-C23-C24
5	Bi	305	A1A0P	C19-C20-C21-C22
5	Bi	307	A1A0P	C21-C22-C23-C24
5	Ca	302	A1A0P	C43-C44-C45-C46
5	Cb	302	A1A0P	C26-C27-C28-C29
5	Cb	302	A1A0P	C43-C44-C45-C46
5	Cb	303	A1A0P	C19-C20-C21-C22
5	Cb	307	A1A0P	C23-C24-C25-C26
5	Cc	302	A1A0P	C43-C44-C45-C46
5	Cc	303	A1A0P	C19-C20-C21-C22
5	Cc	307	A1A0P	C23-C24-C25-C26
5	Cd	302	A1A0P	C26-C27-C28-C29
5	Cd	302	A1A0P	C43-C44-C45-C46
5	Cd	303	A1A0P	C19-C20-C21-C22
5	Cd	307	A1A0P	C23-C24-C25-C26
5	Ce	302	A1A0P	C43-C44-C45-C46
5	Ce	303	A1A0P	C19-C20-C21-C22
5	Ce	307	A1A0P	C23-C24-C25-C26
5	Cf	302	A1A0P	C43-C44-C45-C46
5	Cf	303	A1A0P	C19-C20-C21-C22
5	Cg	302	A1A0P	C26-C27-C28-C29
5	Cg	302	A1A0P	C43-C44-C45-C46
5	Cg	303	A1A0P	C19-C20-C21-C22
5	Cg	307	A1A0P	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
5	Ch	302	A1A0P	C26-C27-C28-C29
5	Ch	302	A1A0P	C43-C44-C45-C46
5	Ch	303	A1A0P	C19-C20-C21-C22
5	Ch	307	A1A0P	C23-C24-C25-C26
5	Ci	302	A1A0P	C26-C27-C28-C29
5	Ci	302	A1A0P	C43-C44-C45-C46
5	Ci	303	A1A0P	C19-C20-C21-C22
5	Ci	307	A1A0P	C23-C24-C25-C26
5	Aa	503	A1A0P	C23-C24-C25-C26
5	Ac	503	A1A0P	C23-C24-C25-C26
5	Ae	503	A1A0P	C23-C24-C25-C26
5	Af	503	A1A0P	C23-C24-C25-C26
5	Ag	503	A1A0P	C23-C24-C25-C26
5	Ba	303	A1A0P	C35-C36-C37-C38
5	Ba	306	A1A0P	C19-C20-C21-C22
5	Ba	309	A1A0P	C42-C43-C44-C45
5	Bb	302	A1A0P	C35-C36-C37-C38
5	Bb	302	A1A0P	C36-C37-C38-C39
5	Bb	305	A1A0P	C19-C20-C21-C22
5	Bb	307	A1A0P	C42-C43-C44-C45
5	Bc	302	A1A0P	C35-C36-C37-C38
5	Bc	302	A1A0P	C36-C37-C38-C39
5	Bc	305	A1A0P	C19-C20-C21-C22
5	Bc	305	A1A0P	C36-C37-C38-C39
5	Bc	308	A1A0P	C42-C43-C44-C45
5	Bd	302	A1A0P	C22-C23-C24-C25
5	Bd	303	A1A0P	C35-C36-C37-C38
5	Bd	303	A1A0P	C36-C37-C38-C39
5	Bd	306	A1A0P	C19-C20-C21-C22
5	Bd	306	A1A0P	C36-C37-C38-C39
5	Be	302	A1A0P	C35-C36-C37-C38
5	Be	302	A1A0P	C36-C37-C38-C39
5	Be	305	A1A0P	C19-C20-C21-C22
5	Be	308	A1A0P	C42-C43-C44-C45
5	Bf	301	A1A0P	C22-C23-C24-C25
5	Bf	302	A1A0P	C35-C36-C37-C38
5	Bf	302	A1A0P	C36-C37-C38-C39
5	Bf	305	A1A0P	C19-C20-C21-C22
5	Bf	307	A1A0P	C42-C43-C44-C45
5	Bg	303	A1A0P	C35-C36-C37-C38
5	Bg	303	A1A0P	C36-C37-C38-C39
5	Bg	306	A1A0P	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
5	Bg	309	A1A0P	C42-C43-C44-C45
5	Bh	302	A1A0P	C35-C36-C37-C38
5	Bh	305	A1A0P	C19-C20-C21-C22
5	Bh	307	A1A0P	C42-C43-C44-C45
5	Bi	302	A1A0P	C35-C36-C37-C38
5	Bi	302	A1A0P	C36-C37-C38-C39
5	Bi	308	A1A0P	C42-C43-C44-C45
5	Ca	307	A1A0P	C22-C23-C24-C25
5	Ca	307	A1A0P	C23-C24-C25-C26
5	Cc	302	A1A0P	C7-C34-C35-C36
5	Ce	302	A1A0P	C26-C27-C28-C29
5	Cf	307	A1A0P	C23-C24-C25-C26
5	Cg	307	A1A0P	C22-C23-C24-C25
5	Ch	302	A1A0P	C7-C34-C35-C36
5	Ci	302	A1A0P	C7-C34-C35-C36
5	Ba	302	A1A0P	C22-C23-C24-C25
5	Bc	301	A1A0P	C22-C23-C24-C25
5	Be	301	A1A0P	C22-C23-C24-C25
5	Bg	302	A1A0P	C22-C23-C24-C25
5	Bh	301	A1A0P	C22-C23-C24-C25
5	Bi	301	A1A0P	C22-C23-C24-C25
5	Ca	301	A1A0P	C44-C45-C46-C47
5	Cb	307	A1A0P	C22-C23-C24-C25
5	Cc	307	A1A0P	C22-C23-C24-C25
5	Cd	307	A1A0P	C22-C23-C24-C25
5	Ce	307	A1A0P	C22-C23-C24-C25
5	Cf	302	A1A0P	C7-C34-C35-C36
5	Cf	307	A1A0P	C22-C23-C24-C25
5	Cg	301	A1A0P	C44-C45-C46-C47
5	Ch	301	A1A0P	C44-C45-C46-C47
5	Ch	307	A1A0P	C22-C23-C24-C25
5	Ci	307	A1A0P	C22-C23-C24-C25
5	Ba	304	A1A0P	C1-C2-O3-C4
5	Bb	303	A1A0P	C1-C2-O3-C4
5	Bc	303	A1A0P	C1-C2-O3-C4
5	Bd	304	A1A0P	C1-C2-O3-C4
5	Be	303	A1A0P	C1-C2-O3-C4
5	Bf	303	A1A0P	C1-C2-O3-C4
5	Bg	304	A1A0P	C1-C2-O3-C4
5	Bh	303	A1A0P	C1-C2-O3-C4
5	Bi	303	A1A0P	C1-C2-O3-C4
5	Ca	302	A1A0P	C7-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
5	Cb	301	A1A0P	C44-C45-C46-C47
5	Cb	302	A1A0P	C7-C34-C35-C36
5	Cc	301	A1A0P	C44-C45-C46-C47
5	Cd	301	A1A0P	C44-C45-C46-C47
5	Ce	301	A1A0P	C44-C45-C46-C47
5	Cf	301	A1A0P	C44-C45-C46-C47
5	Ci	301	A1A0P	C44-C45-C46-C47
5	Cd	302	A1A0P	C7-C34-C35-C36
5	Ce	302	A1A0P	C7-C34-C35-C36
5	Cg	302	A1A0P	C7-C34-C35-C36
5	Ba	307	A1A0P	C43-C44-C45-C46
5	Bb	302	A1A0P	C24-C25-C26-C27
5	Bb	306	A1A0P	C43-C44-C45-C46
5	Bc	302	A1A0P	C24-C25-C26-C27
5	Bc	306	A1A0P	C43-C44-C45-C46
5	Bd	303	A1A0P	C24-C25-C26-C27
5	Bd	307	A1A0P	C43-C44-C45-C46
5	Be	306	A1A0P	C43-C44-C45-C46
5	Bf	302	A1A0P	C24-C25-C26-C27
5	Bf	306	A1A0P	C43-C44-C45-C46
5	Bg	307	A1A0P	C43-C44-C45-C46
5	Bh	302	A1A0P	C24-C25-C26-C27
5	Bh	306	A1A0P	C43-C44-C45-C46
5	Bi	302	A1A0P	C24-C25-C26-C27
5	Bi	306	A1A0P	C43-C44-C45-C46
5	Ba	303	A1A0P	C24-C25-C26-C27
5	Be	302	A1A0P	C24-C25-C26-C27
5	Bg	303	A1A0P	C24-C25-C26-C27
5	Ca	308	A1A0P	C42-C43-C44-C45
5	Cc	308	A1A0P	C42-C43-C44-C45
5	Ce	308	A1A0P	C42-C43-C44-C45
5	Cf	308	A1A0P	C42-C43-C44-C45
5	Cb	308	A1A0P	C42-C43-C44-C45
5	Cd	308	A1A0P	C42-C43-C44-C45
5	Cg	308	A1A0P	C42-C43-C44-C45
5	Ch	308	A1A0P	C42-C43-C44-C45
5	Ci	308	A1A0P	C42-C43-C44-C45
5	Bd	309	A1A0P	C26-C27-C28-C29
5	Ca	301	A1A0P	C21-C22-C23-C24
5	Ca	301	A1A0P	C36-C37-C38-C39
5	Ca	303	A1A0P	C24-C25-C26-C27
5	Ca	306	A1A0P	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
5	Cb	301	A1A0P	C21-C22-C23-C24
5	Cb	301	A1A0P	C36-C37-C38-C39
5	Cb	303	A1A0P	C24-C25-C26-C27
5	Cb	306	A1A0P	C23-C24-C25-C26
5	Cc	301	A1A0P	C36-C37-C38-C39
5	Cc	303	A1A0P	C24-C25-C26-C27
5	Cc	306	A1A0P	C23-C24-C25-C26
5	Cd	301	A1A0P	C36-C37-C38-C39
5	Cd	303	A1A0P	C24-C25-C26-C27
5	Cd	306	A1A0P	C23-C24-C25-C26
5	Ce	301	A1A0P	C21-C22-C23-C24
5	Ce	301	A1A0P	C36-C37-C38-C39
5	Ce	303	A1A0P	C24-C25-C26-C27
5	Ce	306	A1A0P	C23-C24-C25-C26
5	Cf	301	A1A0P	C36-C37-C38-C39
5	Cf	303	A1A0P	C24-C25-C26-C27
5	Cf	306	A1A0P	C23-C24-C25-C26
5	Cg	301	A1A0P	C36-C37-C38-C39
5	Cg	303	A1A0P	C24-C25-C26-C27
5	Cg	306	A1A0P	C23-C24-C25-C26
5	Cg	308	A1A0P	C20-C21-C22-C23
5	Ch	301	A1A0P	C36-C37-C38-C39
5	Ch	303	A1A0P	C24-C25-C26-C27
5	Ch	306	A1A0P	C23-C24-C25-C26
5	Ci	301	A1A0P	C21-C22-C23-C24
5	Ci	301	A1A0P	C36-C37-C38-C39
5	Ci	303	A1A0P	C24-C25-C26-C27
5	Ci	306	A1A0P	C23-C24-C25-C26
5	Ci	308	A1A0P	C20-C21-C22-C23
5	Ba	302	A1A0P	C35-C34-C7-C4
5	Bb	301	A1A0P	C35-C34-C7-C4
5	Bc	301	A1A0P	C35-C34-C7-C4
5	Bd	302	A1A0P	C35-C34-C7-C4
5	Be	301	A1A0P	C35-C34-C7-C4
5	Bf	301	A1A0P	C35-C34-C7-C4
5	Bg	302	A1A0P	C35-C34-C7-C4
5	Bh	301	A1A0P	C35-C34-C7-C4
5	Bi	301	A1A0P	C35-C34-C7-C4
5	Ba	309	A1A0P	C26-C27-C28-C29
5	Ba	309	A1A0P	C36-C37-C38-C39
5	Bb	304	A1A0P	C25-C26-C27-C28
5	Bb	307	A1A0P	C26-C27-C28-C29

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Mol	Chain	Res	Type	Atoms
5	Bb	307	A1A0P	C36-C37-C38-C39
5	Bc	308	A1A0P	C26-C27-C28-C29
5	Bd	309	A1A0P	C36-C37-C38-C39
5	Be	304	A1A0P	C25-C26-C27-C28
5	Be	308	A1A0P	C26-C27-C28-C29
5	Be	308	A1A0P	C36-C37-C38-C39
5	Bf	307	A1A0P	C26-C27-C28-C29
5	Bf	307	A1A0P	C36-C37-C38-C39
5	Bg	309	A1A0P	C26-C27-C28-C29
5	Bg	309	A1A0P	C36-C37-C38-C39
5	Bh	304	A1A0P	C25-C26-C27-C28
5	Bh	307	A1A0P	C26-C27-C28-C29
5	Bh	307	A1A0P	C36-C37-C38-C39
5	Bi	308	A1A0P	C26-C27-C28-C29
5	Ca	305	A1A0P	C23-C24-C25-C26
5	Ca	305	A1A0P	C42-C43-C44-C45
5	Ca	308	A1A0P	C20-C21-C22-C23
5	Cb	304	A1A0P	C20-C21-C22-C23
5	Cb	305	A1A0P	C23-C24-C25-C26
5	Cb	305	A1A0P	C42-C43-C44-C45
5	Cb	308	A1A0P	C20-C21-C22-C23
5	Cc	301	A1A0P	C21-C22-C23-C24
5	Cc	301	A1A0P	C25-C26-C27-C28
5	Cc	304	A1A0P	C20-C21-C22-C23
5	Cc	305	A1A0P	C23-C24-C25-C26
5	Cc	305	A1A0P	C42-C43-C44-C45
5	Cc	308	A1A0P	C20-C21-C22-C23
5	Cd	301	A1A0P	C21-C22-C23-C24
5	Cd	304	A1A0P	C20-C21-C22-C23
5	Cd	305	A1A0P	C23-C24-C25-C26
5	Cd	305	A1A0P	C42-C43-C44-C45
5	Cd	308	A1A0P	C20-C21-C22-C23
5	Ce	301	A1A0P	C25-C26-C27-C28
5	Ce	304	A1A0P	C20-C21-C22-C23
5	Ce	305	A1A0P	C23-C24-C25-C26
5	Ce	305	A1A0P	C42-C43-C44-C45
5	Ce	308	A1A0P	C20-C21-C22-C23
5	Cf	301	A1A0P	C25-C26-C27-C28
5	Cf	304	A1A0P	C20-C21-C22-C23
5	Cf	305	A1A0P	C23-C24-C25-C26
5	Cf	305	A1A0P	C42-C43-C44-C45
5	Cf	308	A1A0P	C20-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
5	Cg	301	A1A0P	C21-C22-C23-C24
5	Cg	305	A1A0P	C23-C24-C25-C26
5	Cg	305	A1A0P	C42-C43-C44-C45
5	Ch	305	A1A0P	C23-C24-C25-C26
5	Ch	305	A1A0P	C42-C43-C44-C45
5	Ch	308	A1A0P	C20-C21-C22-C23
5	Ci	305	A1A0P	C23-C24-C25-C26
5	Ci	305	A1A0P	C42-C43-C44-C45
5	Ba	305	A1A0P	C25-C26-C27-C28
5	Bc	304	A1A0P	C25-C26-C27-C28
5	Bc	308	A1A0P	C36-C37-C38-C39
5	Bd	305	A1A0P	C25-C26-C27-C28
5	Bf	304	A1A0P	C25-C26-C27-C28
5	Bg	305	A1A0P	C25-C26-C27-C28
5	Bi	304	A1A0P	C25-C26-C27-C28
5	Bi	308	A1A0P	C36-C37-C38-C39
5	Ca	304	A1A0P	C20-C21-C22-C23
5	Cb	301	A1A0P	C25-C26-C27-C28
5	Cd	301	A1A0P	C25-C26-C27-C28
5	Cg	301	A1A0P	C25-C26-C27-C28
5	Cg	304	A1A0P	C20-C21-C22-C23
5	Ch	301	A1A0P	C25-C26-C27-C28
5	Ch	304	A1A0P	C20-C21-C22-C23
5	Ci	304	A1A0P	C20-C21-C22-C23
5	Ca	301	A1A0P	C25-C26-C27-C28
5	Cf	301	A1A0P	C21-C22-C23-C24
5	Ci	301	A1A0P	C25-C26-C27-C28
5	Ac	504	A1A0P	C21-C22-C23-C24
5	Ae	504	A1A0P	C21-C22-C23-C24
5	Af	504	A1A0P	C21-C22-C23-C24
5	Ag	504	A1A0P	C21-C22-C23-C24
5	Ah	504	A1A0P	C21-C22-C23-C24
5	Ai	504	A1A0P	C21-C22-C23-C24
5	Ba	302	A1A0P	C27-C28-C29-C30
5	Ba	310	A1A0P	C21-C22-C23-C24
5	Bc	301	A1A0P	C27-C28-C29-C30
5	Be	301	A1A0P	C27-C28-C29-C30
5	Be	309	A1A0P	C21-C22-C23-C24
5	Bf	301	A1A0P	C27-C28-C29-C30
5	Bg	302	A1A0P	C27-C28-C29-C30
5	Bh	301	A1A0P	C27-C28-C29-C30
5	Bh	301	A1A0P	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
5	Bi	301	A1A0P	C27-C28-C29-C30
5	Ch	301	A1A0P	C21-C22-C23-C24
5	Ba	302	A1A0P	C34-C35-C36-C37
5	Bb	301	A1A0P	C27-C28-C29-C30
5	Bb	301	A1A0P	C34-C35-C36-C37
5	Bb	308	A1A0P	C21-C22-C23-C24
5	Bc	301	A1A0P	C42-C43-C44-C45
5	Bd	302	A1A0P	C27-C28-C29-C30
5	Bd	302	A1A0P	C34-C35-C36-C37
5	Be	301	A1A0P	C42-C43-C44-C45
5	Bf	301	A1A0P	C34-C35-C36-C37
5	Bf	301	A1A0P	C42-C43-C44-C45
5	Bg	302	A1A0P	C34-C35-C36-C37
5	Bg	302	A1A0P	C42-C43-C44-C45
5	Bi	301	A1A0P	C42-C43-C44-C45
5	Cc	301	A1A0P	C28-C29-C30-C31
5	Ce	301	A1A0P	C28-C29-C30-C31
5	Cf	301	A1A0P	C28-C29-C30-C31
5	Cg	301	A1A0P	C28-C29-C30-C31
5	Ch	301	A1A0P	C28-C29-C30-C31
5	Ci	301	A1A0P	C28-C29-C30-C31
5	Ac	504	A1A0P	C7-C34-C35-C36
5	Ae	504	A1A0P	C7-C34-C35-C36
5	Af	504	A1A0P	C7-C34-C35-C36
5	Ag	504	A1A0P	C7-C34-C35-C36
5	Ah	504	A1A0P	C7-C34-C35-C36
5	Ai	504	A1A0P	C7-C34-C35-C36
5	Ba	310	A1A0P	C7-C34-C35-C36
5	Bb	308	A1A0P	C7-C34-C35-C36
5	Bc	301	A1A0P	C34-C35-C36-C37
5	Be	309	A1A0P	C7-C34-C35-C36
5	Bh	301	A1A0P	C42-C43-C44-C45
5	Bi	301	A1A0P	C34-C35-C36-C37
5	Ba	302	A1A0P	C42-C43-C44-C45
5	Ba	308	A1A0P	C23-C24-C25-C26
5	Bb	301	A1A0P	C42-C43-C44-C45
5	Bb	309	A1A0P	C23-C24-C25-C26
5	Bc	307	A1A0P	C23-C24-C25-C26
5	Bd	302	A1A0P	C42-C43-C44-C45
5	Bd	308	A1A0P	C23-C24-C25-C26
5	Be	301	A1A0P	C34-C35-C36-C37
5	Be	307	A1A0P	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
5	Bf	308	A1A0P	C23-C24-C25-C26
5	Bg	308	A1A0P	C23-C24-C25-C26
5	Bh	308	A1A0P	C23-C24-C25-C26
5	Bi	307	A1A0P	C23-C24-C25-C26
5	Ca	301	A1A0P	C28-C29-C30-C31
5	Cb	301	A1A0P	C28-C29-C30-C31
5	Cd	301	A1A0P	C28-C29-C30-C31
5	Ba	307	A1A0P	C35-C34-C7-C4
5	Bb	306	A1A0P	C35-C34-C7-C4
5	Bc	306	A1A0P	C35-C34-C7-C4
5	Bd	307	A1A0P	C35-C34-C7-C4
5	Be	306	A1A0P	C35-C34-C7-C4
5	Bf	306	A1A0P	C35-C34-C7-C4
5	Bg	307	A1A0P	C35-C34-C7-C4
5	Bh	306	A1A0P	C35-C34-C7-C4
5	Bi	306	A1A0P	C35-C34-C7-C4
5	Ce	307	A1A0P	C35-C36-C37-C38
5	Ac	504	A1A0P	C20-C21-C22-C23
5	Ae	504	A1A0P	C20-C21-C22-C23
5	Af	504	A1A0P	C20-C21-C22-C23
5	Ag	504	A1A0P	C20-C21-C22-C23
5	Ai	504	A1A0P	C20-C21-C22-C23
5	Ba	310	A1A0P	C20-C21-C22-C23
5	Bb	308	A1A0P	C20-C21-C22-C23
5	Ca	307	A1A0P	C35-C36-C37-C38
5	Ca	308	A1A0P	C43-C44-C45-C46
5	Cc	307	A1A0P	C35-C36-C37-C38
5	Cd	307	A1A0P	C35-C36-C37-C38
5	Ce	308	A1A0P	C43-C44-C45-C46
5	Cf	307	A1A0P	C35-C36-C37-C38
5	Cg	307	A1A0P	C35-C36-C37-C38
5	Cg	308	A1A0P	C43-C44-C45-C46
5	Ch	307	A1A0P	C35-C36-C37-C38
5	Ci	307	A1A0P	C35-C36-C37-C38
5	Ci	308	A1A0P	C43-C44-C45-C46
5	Ah	504	A1A0P	C20-C21-C22-C23
5	Be	309	A1A0P	C20-C21-C22-C23
5	Bi	305	A1A0P	C35-C36-C37-C38
5	Cb	307	A1A0P	C35-C36-C37-C38
5	Cb	308	A1A0P	C43-C44-C45-C46
5	Cd	308	A1A0P	C43-C44-C45-C46
5	Cf	308	A1A0P	C43-C44-C45-C46

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Mol	Chain	Res	Type	Atoms
5	Aa	503	A1A0P	C26-C27-C28-C29
5	Ab	503	A1A0P	C26-C27-C28-C29
5	Ac	503	A1A0P	C26-C27-C28-C29
5	Ad	503	A1A0P	C26-C27-C28-C29
5	Ae	503	A1A0P	C26-C27-C28-C29
5	Af	503	A1A0P	C26-C27-C28-C29
5	Ag	503	A1A0P	C26-C27-C28-C29
5	Ah	503	A1A0P	C26-C27-C28-C29
5	Ai	503	A1A0P	C26-C27-C28-C29
5	Ba	306	A1A0P	C35-C36-C37-C38
5	Bb	305	A1A0P	C35-C36-C37-C38
5	Bc	305	A1A0P	C35-C36-C37-C38
5	Bd	306	A1A0P	C35-C36-C37-C38
5	Be	305	A1A0P	C35-C36-C37-C38
5	Bf	305	A1A0P	C35-C36-C37-C38
5	Bg	306	A1A0P	C35-C36-C37-C38
5	Bh	305	A1A0P	C35-C36-C37-C38
5	Ca	301	A1A0P	C29-C30-C31-C32
5	Cb	301	A1A0P	C29-C30-C31-C32
5	Cb	304	A1A0P	C26-C27-C28-C29
5	Cc	308	A1A0P	C43-C44-C45-C46
5	Cd	301	A1A0P	C29-C30-C31-C32
5	Cd	304	A1A0P	C26-C27-C28-C29
5	Ce	301	A1A0P	C29-C30-C31-C32
5	Cf	301	A1A0P	C29-C30-C31-C32
5	Cf	304	A1A0P	C26-C27-C28-C29
5	Cg	301	A1A0P	C29-C30-C31-C32
5	Ch	301	A1A0P	C29-C30-C31-C32
5	Ch	308	A1A0P	C43-C44-C45-C46
5	Ci	301	A1A0P	C29-C30-C31-C32
5	Cc	301	A1A0P	C29-C30-C31-C32
5	Cc	304	A1A0P	C26-C27-C28-C29
5	Bb	304	A1A0P	C43-C44-C45-C46
5	Bd	305	A1A0P	C43-C44-C45-C46
5	Be	304	A1A0P	C43-C44-C45-C46
5	Bf	304	A1A0P	C43-C44-C45-C46
5	Bh	304	A1A0P	C43-C44-C45-C46
5	Bi	304	A1A0P	C43-C44-C45-C46
5	Cb	307	A1A0P	C27-C28-C29-C30
5	Cc	307	A1A0P	C27-C28-C29-C30
5	Cd	303	A1A0P	C28-C29-C30-C31
5	Cd	307	A1A0P	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
5	Ce	303	A1A0P	C28-C29-C30-C31
5	Ce	307	A1A0P	C27-C28-C29-C30
5	Cf	307	A1A0P	C27-C28-C29-C30
5	Cg	307	A1A0P	C27-C28-C29-C30
5	Ch	307	A1A0P	C27-C28-C29-C30
5	Ci	307	A1A0P	C27-C28-C29-C30
5	Ba	305	A1A0P	C43-C44-C45-C46
5	Ba	306	A1A0P	C42-C43-C44-C45
5	Bb	305	A1A0P	C42-C43-C44-C45
5	Bc	304	A1A0P	C43-C44-C45-C46
5	Bc	305	A1A0P	C42-C43-C44-C45
5	Bd	306	A1A0P	C42-C43-C44-C45
5	Be	305	A1A0P	C42-C43-C44-C45
5	Bf	305	A1A0P	C42-C43-C44-C45
5	Bg	305	A1A0P	C43-C44-C45-C46
5	Bg	306	A1A0P	C42-C43-C44-C45
5	Bh	305	A1A0P	C42-C43-C44-C45
5	Bi	305	A1A0P	C42-C43-C44-C45
5	Ca	303	A1A0P	C28-C29-C30-C31
5	Ca	304	A1A0P	C26-C27-C28-C29
5	Ca	307	A1A0P	C27-C28-C29-C30
5	Cb	303	A1A0P	C28-C29-C30-C31
5	Cc	303	A1A0P	C28-C29-C30-C31
5	Ce	304	A1A0P	C26-C27-C28-C29
5	Cf	303	A1A0P	C28-C29-C30-C31
5	Cg	303	A1A0P	C28-C29-C30-C31
5	Cg	304	A1A0P	C26-C27-C28-C29
5	Ch	303	A1A0P	C28-C29-C30-C31
5	Ch	304	A1A0P	C26-C27-C28-C29
5	Ci	303	A1A0P	C28-C29-C30-C31
5	Ci	304	A1A0P	C26-C27-C28-C29
5	Ba	306	A1A0P	C21-C22-C23-C24
5	Bb	305	A1A0P	C21-C22-C23-C24
5	Bc	305	A1A0P	C21-C22-C23-C24
5	Bd	306	A1A0P	C21-C22-C23-C24
5	Be	305	A1A0P	C21-C22-C23-C24
5	Bf	305	A1A0P	C21-C22-C23-C24
5	Bg	306	A1A0P	C21-C22-C23-C24
5	Bh	305	A1A0P	C21-C22-C23-C24
5	Bi	305	A1A0P	C21-C22-C23-C24
5	Ba	304	A1A0P	C43-C44-C45-C46
5	Bb	303	A1A0P	C43-C44-C45-C46

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Mol	Chain	Res	Type	Atoms
5	Bc	303	A1A0P	C43-C44-C45-C46
5	Bd	304	A1A0P	C43-C44-C45-C46
5	Be	303	A1A0P	C43-C44-C45-C46
5	Bg	304	A1A0P	C43-C44-C45-C46
5	Bh	303	A1A0P	C43-C44-C45-C46
5	Bi	303	A1A0P	C43-C44-C45-C46
5	Cd	304	A1A0P	C34-C35-C36-C37
5	Cg	304	A1A0P	C34-C35-C36-C37
5	Ch	304	A1A0P	C34-C35-C36-C37
5	Bf	303	A1A0P	C43-C44-C45-C46
5	Cf	304	A1A0P	C34-C35-C36-C37
5	Ca	302	A1A0P	C34-C35-C36-C37
5	Ca	304	A1A0P	C34-C35-C36-C37
5	Cb	302	A1A0P	C34-C35-C36-C37
5	Cb	304	A1A0P	C34-C35-C36-C37
5	Cc	304	A1A0P	C34-C35-C36-C37
5	Cd	302	A1A0P	C34-C35-C36-C37
5	Ce	302	A1A0P	C34-C35-C36-C37
5	Ce	304	A1A0P	C34-C35-C36-C37
5	Cf	302	A1A0P	C34-C35-C36-C37
5	Cg	302	A1A0P	C34-C35-C36-C37
5	Ci	304	A1A0P	C34-C35-C36-C37
5	Cc	302	A1A0P	C34-C35-C36-C37
5	Ch	302	A1A0P	C34-C35-C36-C37
5	Ci	302	A1A0P	C34-C35-C36-C37
5	Ad	502	A1A0P	C22-C23-C24-C25
5	Ag	502	A1A0P	C22-C23-C24-C25
5	Aa	502	A1A0P	C22-C23-C24-C25
5	Ab	502	A1A0P	C22-C23-C24-C25
5	Ac	502	A1A0P	C22-C23-C24-C25
5	Ae	502	A1A0P	C22-C23-C24-C25
5	Af	502	A1A0P	C22-C23-C24-C25
5	Ah	502	A1A0P	C22-C23-C24-C25
5	Ai	502	A1A0P	C22-C23-C24-C25
5	Bb	301	A1A0P	C44-C45-C46-C47
5	Bb	303	A1A0P	C29-C30-C31-C32
5	Bi	303	A1A0P	C29-C30-C31-C32
5	Ce	302	A1A0P	C23-C24-C25-C26
5	Ba	302	A1A0P	C44-C45-C46-C47
5	Ba	304	A1A0P	C29-C30-C31-C32
5	Bc	301	A1A0P	C44-C45-C46-C47
5	Bc	303	A1A0P	C29-C30-C31-C32

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Mol	Chain	Res	Type	Atoms
5	Bd	302	A1A0P	C44-C45-C46-C47
5	Bd	304	A1A0P	C29-C30-C31-C32
5	Be	301	A1A0P	C44-C45-C46-C47
5	Be	303	A1A0P	C29-C30-C31-C32
5	Bf	301	A1A0P	C44-C45-C46-C47
5	Bf	303	A1A0P	C29-C30-C31-C32
5	Bg	304	A1A0P	C29-C30-C31-C32
5	Bh	303	A1A0P	C29-C30-C31-C32
5	Bi	301	A1A0P	C44-C45-C46-C47
5	Ca	302	A1A0P	C23-C24-C25-C26
5	Cb	302	A1A0P	C23-C24-C25-C26
5	Cc	302	A1A0P	C23-C24-C25-C26
5	Cd	302	A1A0P	C23-C24-C25-C26
5	Cf	302	A1A0P	C23-C24-C25-C26
5	Cg	302	A1A0P	C23-C24-C25-C26
5	Ch	302	A1A0P	C23-C24-C25-C26
5	Ci	302	A1A0P	C23-C24-C25-C26
5	Ba	305	A1A0P	C20-C21-C22-C23
5	Bg	302	A1A0P	C44-C45-C46-C47
5	Bg	305	A1A0P	C20-C21-C22-C23
5	Bh	301	A1A0P	C44-C45-C46-C47
5	Cc	308	A1A0P	C26-C27-C28-C29
5	Ch	308	A1A0P	C26-C27-C28-C29
5	Ci	308	A1A0P	C26-C27-C28-C29
5	Bb	304	A1A0P	C20-C21-C22-C23
5	Bc	304	A1A0P	C20-C21-C22-C23
5	Bd	305	A1A0P	C20-C21-C22-C23
5	Be	304	A1A0P	C20-C21-C22-C23
5	Bf	304	A1A0P	C20-C21-C22-C23
5	Bh	304	A1A0P	C20-C21-C22-C23
5	Bi	304	A1A0P	C20-C21-C22-C23
5	Ca	308	A1A0P	C26-C27-C28-C29
5	Cb	308	A1A0P	C26-C27-C28-C29
5	Cd	308	A1A0P	C26-C27-C28-C29
5	Cf	308	A1A0P	C26-C27-C28-C29
5	Cg	308	A1A0P	C26-C27-C28-C29
5	Ce	308	A1A0P	C26-C27-C28-C29
5	Aa	502	A1A0P	C35-C34-C7-C4
5	Ab	502	A1A0P	C35-C34-C7-C4
5	Ac	502	A1A0P	C35-C34-C7-C4
5	Ad	502	A1A0P	C35-C34-C7-C4
5	Ae	502	A1A0P	C35-C34-C7-C4

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Mol	Chain	Res	Type	Atoms
5	Af	502	A1A0P	C35-C34-C7-C4
5	Ag	502	A1A0P	C35-C34-C7-C4
5	Ah	502	A1A0P	C35-C34-C7-C4
5	Ai	502	A1A0P	C35-C34-C7-C4
5	Ca	301	A1A0P	C19-C20-C21-C22
5	Cc	301	A1A0P	C19-C20-C21-C22
5	Ce	301	A1A0P	C19-C20-C21-C22
5	Cg	301	A1A0P	C19-C20-C21-C22
5	Ci	301	A1A0P	C19-C20-C21-C22
5	Ca	305	A1A0P	C37-C38-C39-C40
5	Cb	305	A1A0P	C37-C38-C39-C40
5	Cc	305	A1A0P	C37-C38-C39-C40
5	Cd	305	A1A0P	C37-C38-C39-C40
5	Ce	305	A1A0P	C37-C38-C39-C40
5	Cf	305	A1A0P	C37-C38-C39-C40
5	Cg	305	A1A0P	C37-C38-C39-C40
5	Ch	305	A1A0P	C37-C38-C39-C40
5	Ci	305	A1A0P	C37-C38-C39-C40
5	Cd	301	A1A0P	C19-C20-C21-C22
5	Cf	301	A1A0P	C19-C20-C21-C22
5	Ch	301	A1A0P	C19-C20-C21-C22
5	Ba	304	A1A0P	C7-C34-C35-C36
5	Ca	304	A1A0P	C27-C28-C29-C30
5	Cb	301	A1A0P	C19-C20-C21-C22
5	Ce	304	A1A0P	C27-C28-C29-C30
5	Cf	304	A1A0P	C27-C28-C29-C30
5	Cg	304	A1A0P	C27-C28-C29-C30
5	Ch	304	A1A0P	C27-C28-C29-C30
5	Ci	304	A1A0P	C27-C28-C29-C30
5	Bf	303	A1A0P	C7-C34-C35-C36
5	Ca	306	A1A0P	C35-C36-C37-C38
5	Cb	304	A1A0P	C27-C28-C29-C30
5	Cb	306	A1A0P	C35-C36-C37-C38
5	Cc	304	A1A0P	C27-C28-C29-C30
5	Cd	304	A1A0P	C27-C28-C29-C30
5	Ce	306	A1A0P	C35-C36-C37-C38
5	Cf	306	A1A0P	C35-C36-C37-C38
5	Cg	306	A1A0P	C35-C36-C37-C38
5	Ch	306	A1A0P	C35-C36-C37-C38
5	Ci	306	A1A0P	C35-C36-C37-C38
5	Ca	302	A1A0P	C40-C41-C42-C43
5	Cb	302	A1A0P	C40-C41-C42-C43

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Mol	Chain	Res	Type	Atoms
5	Cc	302	A1A0P	C40-C41-C42-C43
5	Cd	302	A1A0P	C40-C41-C42-C43
5	Ce	302	A1A0P	C40-C41-C42-C43
5	Cf	302	A1A0P	C40-C41-C42-C43
5	Cg	302	A1A0P	C40-C41-C42-C43
5	Ch	302	A1A0P	C40-C41-C42-C43
5	Ci	302	A1A0P	C40-C41-C42-C43
5	Ba	304	A1A0P	C28-C29-C30-C31
5	Ba	307	A1A0P	C21-C22-C23-C24
5	Bb	303	A1A0P	C28-C29-C30-C31
5	Bb	303	A1A0P	C7-C34-C35-C36
5	Bb	306	A1A0P	C21-C22-C23-C24
5	Bc	303	A1A0P	C28-C29-C30-C31
5	Bc	303	A1A0P	C7-C34-C35-C36
5	Bc	306	A1A0P	C21-C22-C23-C24
5	Bd	304	A1A0P	C28-C29-C30-C31
5	Bd	307	A1A0P	C21-C22-C23-C24
5	Be	303	A1A0P	C28-C29-C30-C31
5	Be	303	A1A0P	C7-C34-C35-C36
5	Be	306	A1A0P	C21-C22-C23-C24
5	Bf	303	A1A0P	C28-C29-C30-C31
5	Bf	306	A1A0P	C21-C22-C23-C24
5	Bg	304	A1A0P	C28-C29-C30-C31
5	Bg	307	A1A0P	C20-C21-C22-C23
5	Bg	307	A1A0P	C21-C22-C23-C24
5	Bh	303	A1A0P	C28-C29-C30-C31
5	Bh	306	A1A0P	C21-C22-C23-C24
5	Bi	303	A1A0P	C28-C29-C30-C31
5	Bi	306	A1A0P	C21-C22-C23-C24
5	Ca	301	A1A0P	C34-C35-C36-C37
5	Cb	301	A1A0P	C34-C35-C36-C37
5	Cc	301	A1A0P	C34-C35-C36-C37
5	Cc	306	A1A0P	C35-C36-C37-C38
5	Cd	301	A1A0P	C34-C35-C36-C37
5	Cd	306	A1A0P	C35-C36-C37-C38
5	Ce	301	A1A0P	C34-C35-C36-C37
5	Cf	301	A1A0P	C34-C35-C36-C37
5	Cg	301	A1A0P	C34-C35-C36-C37
5	Ch	301	A1A0P	C34-C35-C36-C37
5	Ci	301	A1A0P	C34-C35-C36-C37
5	Ba	307	A1A0P	C20-C21-C22-C23
5	Bb	306	A1A0P	C20-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
5	Bc	306	A1A0P	C20-C21-C22-C23
5	Bd	304	A1A0P	C7-C34-C35-C36
5	Bd	307	A1A0P	C20-C21-C22-C23
5	Be	306	A1A0P	C20-C21-C22-C23
5	Bf	306	A1A0P	C20-C21-C22-C23
5	Bg	304	A1A0P	C7-C34-C35-C36
5	Bh	303	A1A0P	C7-C34-C35-C36
5	Bh	306	A1A0P	C20-C21-C22-C23
5	Bi	303	A1A0P	C7-C34-C35-C36
5	Bi	306	A1A0P	C20-C21-C22-C23
5	Ca	305	A1A0P	C21-C22-C23-C24
5	Cb	305	A1A0P	C21-C22-C23-C24
5	Cc	305	A1A0P	C21-C22-C23-C24
5	Cd	305	A1A0P	C21-C22-C23-C24
5	Ce	305	A1A0P	C21-C22-C23-C24
5	Cf	305	A1A0P	C21-C22-C23-C24
5	Cg	305	A1A0P	C21-C22-C23-C24
5	Ch	305	A1A0P	C21-C22-C23-C24
5	Ci	305	A1A0P	C21-C22-C23-C24
5	Cd	301	A1A0P	C23-C24-C25-C26
5	Ch	301	A1A0P	C23-C24-C25-C26
5	Ca	301	A1A0P	C23-C24-C25-C26
5	Cb	301	A1A0P	C23-C24-C25-C26
5	Cf	301	A1A0P	C23-C24-C25-C26
5	Cg	301	A1A0P	C23-C24-C25-C26
5	Ci	301	A1A0P	C23-C24-C25-C26
5	Bb	309	A1A0P	C27-C28-C29-C30
5	Bc	307	A1A0P	C27-C28-C29-C30
5	Bd	308	A1A0P	C27-C28-C29-C30
5	Bf	308	A1A0P	C27-C28-C29-C30
5	Bh	308	A1A0P	C27-C28-C29-C30
5	Bi	307	A1A0P	C27-C28-C29-C30
5	Ce	301	A1A0P	C23-C24-C25-C26
5	Ba	308	A1A0P	C27-C28-C29-C30
5	Be	307	A1A0P	C27-C28-C29-C30
5	Cc	301	A1A0P	C23-C24-C25-C26
5	Bg	308	A1A0P	C27-C28-C29-C30
5	Ca	302	A1A0P	C35-C36-C37-C38
5	Cb	302	A1A0P	C35-C36-C37-C38
5	Cc	302	A1A0P	C35-C36-C37-C38
5	Cd	302	A1A0P	C35-C36-C37-C38
5	Ce	302	A1A0P	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
5	Cf	302	A1A0P	C35-C36-C37-C38
5	Cg	302	A1A0P	C35-C36-C37-C38
5	Ch	302	A1A0P	C35-C36-C37-C38
5	Ci	302	A1A0P	C35-C36-C37-C38
5	Ch	304	A1A0P	C36-C37-C38-C39
5	Ac	504	A1A0P	C37-C38-C39-C40
5	Ae	504	A1A0P	C37-C38-C39-C40
5	Af	504	A1A0P	C37-C38-C39-C40
5	Ag	504	A1A0P	C37-C38-C39-C40
5	Ah	504	A1A0P	C37-C38-C39-C40
5	Ai	504	A1A0P	C37-C38-C39-C40
5	Ba	306	A1A0P	C37-C38-C39-C40
5	Ba	310	A1A0P	C37-C38-C39-C40
5	Bb	305	A1A0P	C37-C38-C39-C40
5	Bb	308	A1A0P	C37-C38-C39-C40
5	Bc	305	A1A0P	C37-C38-C39-C40
5	Bd	306	A1A0P	C37-C38-C39-C40
5	Be	305	A1A0P	C37-C38-C39-C40
5	Be	309	A1A0P	C37-C38-C39-C40
5	Bf	305	A1A0P	C37-C38-C39-C40
5	Bg	306	A1A0P	C37-C38-C39-C40
5	Bh	305	A1A0P	C37-C38-C39-C40
5	Bi	305	A1A0P	C37-C38-C39-C40
5	Ca	307	A1A0P	C41-C42-C43-C44
5	Cb	307	A1A0P	C41-C42-C43-C44
5	Cc	307	A1A0P	C41-C42-C43-C44
5	Cd	307	A1A0P	C41-C42-C43-C44
5	Ce	307	A1A0P	C41-C42-C43-C44
5	Cf	307	A1A0P	C41-C42-C43-C44
5	Cg	307	A1A0P	C41-C42-C43-C44
5	Ch	307	A1A0P	C41-C42-C43-C44
5	Ci	307	A1A0P	C41-C42-C43-C44
5	Bb	303	A1A0P	C44-C45-C46-C47
5	Bh	303	A1A0P	C44-C45-C46-C47
5	Cb	304	A1A0P	C36-C37-C38-C39
5	Cc	304	A1A0P	C36-C37-C38-C39
5	Cd	304	A1A0P	C36-C37-C38-C39
5	Ce	304	A1A0P	C36-C37-C38-C39
5	Cg	304	A1A0P	C36-C37-C38-C39
5	Ba	303	A1A0P	C2-C1-C8-O9
5	Bb	302	A1A0P	C2-C1-C8-O9
5	Bc	302	A1A0P	C2-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Bd	303	A1A0P	C2-C1-C8-O9
5	Be	302	A1A0P	C2-C1-C8-O9
5	Bf	302	A1A0P	C2-C1-C8-O9
5	Bg	303	A1A0P	C2-C1-C8-O9
5	Bh	302	A1A0P	C2-C1-C8-O9
5	Bi	302	A1A0P	C2-C1-C8-O9
5	Ba	304	A1A0P	C44-C45-C46-C47
5	Bc	303	A1A0P	C44-C45-C46-C47
5	Bd	304	A1A0P	C44-C45-C46-C47
5	Be	303	A1A0P	C44-C45-C46-C47
5	Bf	303	A1A0P	C44-C45-C46-C47
5	Bg	304	A1A0P	C44-C45-C46-C47
5	Bi	303	A1A0P	C44-C45-C46-C47
5	Ca	301	A1A0P	C20-C21-C22-C23
5	Ca	304	A1A0P	C36-C37-C38-C39
5	Cb	301	A1A0P	C20-C21-C22-C23
5	Cd	301	A1A0P	C20-C21-C22-C23
5	Cf	301	A1A0P	C20-C21-C22-C23
5	Cf	304	A1A0P	C36-C37-C38-C39
5	Cg	301	A1A0P	C20-C21-C22-C23
5	Ch	301	A1A0P	C20-C21-C22-C23
5	Ci	301	A1A0P	C20-C21-C22-C23
5	Ci	304	A1A0P	C36-C37-C38-C39
5	Ad	503	A1A0P	C20-C21-C22-C23
5	Ae	503	A1A0P	C20-C21-C22-C23
5	Ba	304	A1A0P	C26-C27-C28-C29
5	Bb	303	A1A0P	C26-C27-C28-C29
5	Bc	303	A1A0P	C26-C27-C28-C29
5	Bd	304	A1A0P	C26-C27-C28-C29
5	Bf	303	A1A0P	C26-C27-C28-C29
5	Bi	303	A1A0P	C26-C27-C28-C29
5	Cc	301	A1A0P	C20-C21-C22-C23
5	Ce	301	A1A0P	C20-C21-C22-C23
5	Aa	503	A1A0P	C20-C21-C22-C23
5	Ab	503	A1A0P	C20-C21-C22-C23
5	Ac	503	A1A0P	C20-C21-C22-C23
5	Ag	503	A1A0P	C20-C21-C22-C23
5	Ai	503	A1A0P	C20-C21-C22-C23
5	Ah	503	A1A0P	C20-C21-C22-C23
5	Be	303	A1A0P	C26-C27-C28-C29
5	Bg	304	A1A0P	C26-C27-C28-C29
5	Bh	303	A1A0P	C26-C27-C28-C29

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Mol	Chain	Res	Type	Atoms
5	Af	503	A1A0P	C20-C21-C22-C23
5	Bg	305	A1A0P	C42-C43-C44-C45
5	Ba	305	A1A0P	C42-C43-C44-C45
5	Bb	304	A1A0P	C42-C43-C44-C45
5	Bb	309	A1A0P	C44-C45-C46-C47
5	Bc	304	A1A0P	C42-C43-C44-C45
5	Bc	307	A1A0P	C44-C45-C46-C47
5	Bd	305	A1A0P	C42-C43-C44-C45
5	Bd	308	A1A0P	C44-C45-C46-C47
5	Be	304	A1A0P	C42-C43-C44-C45
5	Be	307	A1A0P	C44-C45-C46-C47
5	Bf	304	A1A0P	C42-C43-C44-C45
5	Bg	308	A1A0P	C44-C45-C46-C47
5	Bh	304	A1A0P	C42-C43-C44-C45
5	Bh	308	A1A0P	C44-C45-C46-C47
5	Bi	304	A1A0P	C42-C43-C44-C45
5	Ba	308	A1A0P	C44-C45-C46-C47
5	Bf	308	A1A0P	C44-C45-C46-C47
5	Bi	307	A1A0P	C44-C45-C46-C47
5	Bc	306	A1A0P	C24-C25-C26-C27
5	Bd	307	A1A0P	C24-C25-C26-C27
5	Bh	306	A1A0P	C24-C25-C26-C27
5	Bi	306	A1A0P	C24-C25-C26-C27
5	Ba	307	A1A0P	C24-C25-C26-C27
5	Bb	306	A1A0P	C24-C25-C26-C27
5	Be	306	A1A0P	C24-C25-C26-C27
5	Bf	306	A1A0P	C24-C25-C26-C27
5	Bg	307	A1A0P	C24-C25-C26-C27
5	Ca	306	A1A0P	C17-C19-C20-C21
5	Cb	306	A1A0P	C17-C19-C20-C21
5	Cc	306	A1A0P	C17-C19-C20-C21
5	Cd	306	A1A0P	C17-C19-C20-C21
5	Ce	306	A1A0P	C17-C19-C20-C21
5	Cf	306	A1A0P	C17-C19-C20-C21
5	Aa	502	A1A0P	C8-C1-C2-O3
5	Ab	502	A1A0P	C8-C1-C2-O3
5	Ac	502	A1A0P	C8-C1-C2-O3
5	Ad	502	A1A0P	C8-C1-C2-O3
5	Ae	502	A1A0P	C8-C1-C2-O3
5	Af	502	A1A0P	C8-C1-C2-O3
5	Ag	502	A1A0P	C8-C1-C2-O3
5	Ah	502	A1A0P	C8-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Ai	502	A1A0P	C8-C1-C2-O3
5	Ca	306	A1A0P	C8-C1-C2-O3
5	Ca	308	A1A0P	C8-C1-C2-O3
5	Cb	306	A1A0P	C8-C1-C2-O3
5	Cb	308	A1A0P	C8-C1-C2-O3
5	Cc	306	A1A0P	C8-C1-C2-O3
5	Cc	308	A1A0P	C8-C1-C2-O3
5	Cd	306	A1A0P	C8-C1-C2-O3
5	Cd	308	A1A0P	C8-C1-C2-O3
5	Ce	306	A1A0P	C8-C1-C2-O3
5	Ce	308	A1A0P	C8-C1-C2-O3
5	Cf	306	A1A0P	C8-C1-C2-O3
5	Cf	308	A1A0P	C8-C1-C2-O3
5	Cg	306	A1A0P	C8-C1-C2-O3
5	Cg	308	A1A0P	C8-C1-C2-O3
5	Ch	306	A1A0P	C8-C1-C2-O3
5	Ch	308	A1A0P	C8-C1-C2-O3
5	Ci	306	A1A0P	C8-C1-C2-O3
5	Ci	308	A1A0P	C8-C1-C2-O3
5	Aa	502	A1A0P	C41-C42-C43-C44
5	Ab	502	A1A0P	C41-C42-C43-C44
5	Ac	502	A1A0P	C41-C42-C43-C44
5	Ad	502	A1A0P	C41-C42-C43-C44
5	Ae	502	A1A0P	C41-C42-C43-C44
5	Af	502	A1A0P	C41-C42-C43-C44
5	Ag	502	A1A0P	C41-C42-C43-C44
5	Ah	502	A1A0P	C41-C42-C43-C44
5	Ai	502	A1A0P	C41-C42-C43-C44
5	Ba	303	A1A0P	C41-C42-C43-C44
5	Ba	307	A1A0P	C37-C38-C39-C40
5	Bb	302	A1A0P	C41-C42-C43-C44
5	Bb	306	A1A0P	C37-C38-C39-C40
5	Bc	302	A1A0P	C41-C42-C43-C44
5	Bc	306	A1A0P	C37-C38-C39-C40
5	Bd	303	A1A0P	C41-C42-C43-C44
5	Bd	307	A1A0P	C37-C38-C39-C40
5	Be	302	A1A0P	C41-C42-C43-C44
5	Be	306	A1A0P	C37-C38-C39-C40
5	Bf	302	A1A0P	C41-C42-C43-C44
5	Bf	306	A1A0P	C37-C38-C39-C40
5	Bg	303	A1A0P	C41-C42-C43-C44
5	Bg	307	A1A0P	C37-C38-C39-C40

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Mol	Chain	Res	Type	Atoms
5	Bh	302	A1A0P	C41-C42-C43-C44
5	Bh	306	A1A0P	C37-C38-C39-C40
5	Bi	302	A1A0P	C41-C42-C43-C44
5	Bi	306	A1A0P	C37-C38-C39-C40
5	Ca	301	A1A0P	C37-C38-C39-C40
5	Cb	301	A1A0P	C37-C38-C39-C40
5	Cc	301	A1A0P	C37-C38-C39-C40
5	Cd	301	A1A0P	C37-C38-C39-C40
5	Ce	301	A1A0P	C37-C38-C39-C40
5	Cf	301	A1A0P	C37-C38-C39-C40
5	Cg	301	A1A0P	C37-C38-C39-C40
5	Ch	301	A1A0P	C37-C38-C39-C40
5	Ci	301	A1A0P	C37-C38-C39-C40
5	Cg	306	A1A0P	C17-C19-C20-C21
5	Ch	306	A1A0P	C17-C19-C20-C21
5	Ci	306	A1A0P	C17-C19-C20-C21
5	Ad	502	A1A0P	C7-C34-C35-C36
5	Ae	502	A1A0P	C7-C34-C35-C36
5	Ah	502	A1A0P	C7-C34-C35-C36
5	Ba	307	A1A0P	C42-C43-C44-C45
5	Bb	306	A1A0P	C42-C43-C44-C45
5	Bc	306	A1A0P	C42-C43-C44-C45
5	Bd	307	A1A0P	C42-C43-C44-C45
5	Be	306	A1A0P	C42-C43-C44-C45
5	Bf	306	A1A0P	C42-C43-C44-C45
5	Bg	307	A1A0P	C42-C43-C44-C45
5	Bh	306	A1A0P	C42-C43-C44-C45
5	Bi	306	A1A0P	C42-C43-C44-C45
5	Ab	502	A1A0P	C7-C34-C35-C36
5	Ac	502	A1A0P	C7-C34-C35-C36
5	Af	502	A1A0P	C7-C34-C35-C36
5	Ai	502	A1A0P	C7-C34-C35-C36
5	Ca	302	A1A0P	C44-C45-C46-C47
5	Cb	302	A1A0P	C44-C45-C46-C47
5	Cc	302	A1A0P	C44-C45-C46-C47
5	Cd	302	A1A0P	C44-C45-C46-C47
5	Ce	302	A1A0P	C44-C45-C46-C47
5	Cf	302	A1A0P	C44-C45-C46-C47
5	Cg	302	A1A0P	C44-C45-C46-C47
5	Ch	302	A1A0P	C44-C45-C46-C47
5	Ci	302	A1A0P	C44-C45-C46-C47
5	Aa	502	A1A0P	C7-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
5	Ae	504	A1A0P	C19-C20-C21-C22
5	Ag	502	A1A0P	C7-C34-C35-C36
5	Be	309	A1A0P	C19-C20-C21-C22
5	Ac	504	A1A0P	C19-C20-C21-C22
5	Af	504	A1A0P	C19-C20-C21-C22
5	Ag	504	A1A0P	C19-C20-C21-C22
5	Ah	504	A1A0P	C19-C20-C21-C22
5	Ai	504	A1A0P	C19-C20-C21-C22
5	Ba	310	A1A0P	C19-C20-C21-C22
5	Bb	308	A1A0P	C19-C20-C21-C22
5	Ac	504	A1A0P	C35-C34-C7-C4
5	Ae	504	A1A0P	C35-C34-C7-C4
5	Af	504	A1A0P	C35-C34-C7-C4
5	Ag	504	A1A0P	C35-C34-C7-C4
5	Ah	504	A1A0P	C35-C34-C7-C4
5	Ai	504	A1A0P	C35-C34-C7-C4
5	Ba	310	A1A0P	C35-C34-C7-C4
5	Bb	308	A1A0P	C35-C34-C7-C4
5	Be	309	A1A0P	C35-C34-C7-C4
5	Ba	308	A1A0P	C38-C39-C40-C41
5	Bb	309	A1A0P	C38-C39-C40-C41
5	Bc	307	A1A0P	C38-C39-C40-C41
5	Bd	308	A1A0P	C38-C39-C40-C41
5	Be	307	A1A0P	C38-C39-C40-C41
5	Bf	308	A1A0P	C38-C39-C40-C41
5	Bg	308	A1A0P	C38-C39-C40-C41
5	Bh	308	A1A0P	C38-C39-C40-C41
5	Bi	307	A1A0P	C38-C39-C40-C41
5	Ba	308	A1A0P	C26-C27-C28-C29
5	Bd	308	A1A0P	C26-C27-C28-C29
5	Be	307	A1A0P	C26-C27-C28-C29
5	Bb	309	A1A0P	C26-C27-C28-C29
5	Bg	308	A1A0P	C26-C27-C28-C29
5	Bh	308	A1A0P	C26-C27-C28-C29
5	Ba	307	A1A0P	C28-C29-C30-C31
5	Bb	306	A1A0P	C28-C29-C30-C31
5	Bc	306	A1A0P	C28-C29-C30-C31
5	Bc	307	A1A0P	C26-C27-C28-C29
5	Bd	307	A1A0P	C28-C29-C30-C31
5	Bf	306	A1A0P	C28-C29-C30-C31
5	Bf	308	A1A0P	C26-C27-C28-C29
5	Bh	306	A1A0P	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
5	Bi	306	A1A0P	C28-C29-C30-C31
5	Bi	307	A1A0P	C26-C27-C28-C29
5	Be	306	A1A0P	C28-C29-C30-C31
5	Bg	307	A1A0P	C28-C29-C30-C31
5	Ca	302	A1A0P	C21-C22-C23-C24
5	Cc	302	A1A0P	C21-C22-C23-C24
5	Cf	302	A1A0P	C21-C22-C23-C24
5	Cg	302	A1A0P	C21-C22-C23-C24
5	Ch	302	A1A0P	C21-C22-C23-C24
5	Ci	302	A1A0P	C21-C22-C23-C24
5	Bc	308	A1A0P	C28-C29-C30-C31
5	Bd	309	A1A0P	C28-C29-C30-C31
5	Ca	306	A1A0P	C21-C22-C23-C24
5	Cb	302	A1A0P	C21-C22-C23-C24
5	Cd	302	A1A0P	C21-C22-C23-C24
5	Cd	306	A1A0P	C21-C22-C23-C24
5	Ce	302	A1A0P	C21-C22-C23-C24
5	Cf	306	A1A0P	C21-C22-C23-C24
5	Cg	306	A1A0P	C21-C22-C23-C24
5	Ca	301	A1A0P	C41-C42-C43-C44
5	Ca	302	A1A0P	C41-C42-C43-C44
5	Ca	305	A1A0P	C41-C42-C43-C44
5	Cb	301	A1A0P	C41-C42-C43-C44
5	Cb	302	A1A0P	C41-C42-C43-C44
5	Cb	305	A1A0P	C41-C42-C43-C44
5	Cc	301	A1A0P	C41-C42-C43-C44
5	Cc	302	A1A0P	C41-C42-C43-C44
5	Cc	305	A1A0P	C41-C42-C43-C44
5	Cd	301	A1A0P	C41-C42-C43-C44
5	Cd	302	A1A0P	C41-C42-C43-C44
5	Cd	305	A1A0P	C41-C42-C43-C44
5	Ce	301	A1A0P	C41-C42-C43-C44
5	Ce	302	A1A0P	C41-C42-C43-C44
5	Ce	305	A1A0P	C41-C42-C43-C44
5	Cf	301	A1A0P	C41-C42-C43-C44
5	Cf	302	A1A0P	C41-C42-C43-C44
5	Cf	305	A1A0P	C41-C42-C43-C44
5	Cg	301	A1A0P	C41-C42-C43-C44
5	Cg	302	A1A0P	C41-C42-C43-C44
5	Cg	305	A1A0P	C41-C42-C43-C44
5	Ch	301	A1A0P	C41-C42-C43-C44
5	Ch	302	A1A0P	C41-C42-C43-C44

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Mol	Chain	Res	Type	Atoms
5	Ch	305	A1A0P	C41-C42-C43-C44
5	Ci	301	A1A0P	C41-C42-C43-C44
5	Ci	302	A1A0P	C41-C42-C43-C44
5	Ci	305	A1A0P	C41-C42-C43-C44
5	Ba	309	A1A0P	C28-C29-C30-C31
5	Bb	307	A1A0P	C28-C29-C30-C31
5	Be	308	A1A0P	C28-C29-C30-C31
5	Bf	307	A1A0P	C28-C29-C30-C31
5	Bg	308	A1A0P	C43-C44-C45-C46
5	Bg	309	A1A0P	C28-C29-C30-C31
5	Bh	307	A1A0P	C28-C29-C30-C31
5	Bi	308	A1A0P	C28-C29-C30-C31
5	Cb	306	A1A0P	C21-C22-C23-C24
5	Cc	306	A1A0P	C21-C22-C23-C24
5	Ce	306	A1A0P	C21-C22-C23-C24
5	Ch	306	A1A0P	C21-C22-C23-C24
5	Ci	306	A1A0P	C21-C22-C23-C24
5	Ba	308	A1A0P	C43-C44-C45-C46
5	Be	307	A1A0P	C43-C44-C45-C46
5	Bb	304	A1A0P	C22-C23-C24-C25
5	Bf	304	A1A0P	C22-C23-C24-C25
5	Bi	307	A1A0P	C43-C44-C45-C46
5	Bc	304	A1A0P	C22-C23-C24-C25
5	Bc	307	A1A0P	C43-C44-C45-C46
5	Bd	305	A1A0P	C22-C23-C24-C25
5	Bd	308	A1A0P	C43-C44-C45-C46
5	Be	304	A1A0P	C22-C23-C24-C25
5	Bh	304	A1A0P	C22-C23-C24-C25
5	Bh	308	A1A0P	C43-C44-C45-C46
5	Ba	305	A1A0P	O6-C1-C8-O9
5	Bb	304	A1A0P	O6-C1-C8-O9
5	Bc	304	A1A0P	O6-C1-C8-O9
5	Bd	305	A1A0P	O6-C1-C8-O9
5	Be	304	A1A0P	O6-C1-C8-O9
5	Bf	304	A1A0P	O6-C1-C8-O9
5	Bg	305	A1A0P	O6-C1-C8-O9
5	Bh	304	A1A0P	O6-C1-C8-O9
5	Bi	304	A1A0P	O6-C1-C8-O9
5	Ca	301	A1A0P	O6-C1-C8-O9
5	Cb	301	A1A0P	O6-C1-C8-O9
5	Cc	301	A1A0P	O6-C1-C8-O9
5	Cd	301	A1A0P	O6-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Ce	301	A1A0P	O6-C1-C8-O9
5	Cf	301	A1A0P	O6-C1-C8-O9
5	Cg	301	A1A0P	O6-C1-C8-O9
5	Ch	301	A1A0P	O6-C1-C8-O9
5	Ci	301	A1A0P	O6-C1-C8-O9
5	Ba	305	A1A0P	C22-C23-C24-C25
5	Bb	309	A1A0P	C43-C44-C45-C46
5	Bf	308	A1A0P	C43-C44-C45-C46
5	Bg	305	A1A0P	C22-C23-C24-C25
5	Bi	304	A1A0P	C22-C23-C24-C25
5	Cb	306	A1A0P	C25-C26-C27-C28
5	Cc	306	A1A0P	C25-C26-C27-C28
5	Cd	306	A1A0P	C25-C26-C27-C28
5	Ce	306	A1A0P	C25-C26-C27-C28
5	Cg	306	A1A0P	C25-C26-C27-C28
5	Ch	306	A1A0P	C25-C26-C27-C28
5	Ci	306	A1A0P	C25-C26-C27-C28
5	Ac	503	A1A0P	C45-C46-C47-C48
5	Ae	503	A1A0P	C45-C46-C47-C48
5	Ah	503	A1A0P	C45-C46-C47-C48
5	Ai	503	A1A0P	C45-C46-C47-C48
5	Ca	306	A1A0P	C25-C26-C27-C28
5	Cf	306	A1A0P	C25-C26-C27-C28
5	Aa	503	A1A0P	C45-C46-C47-C48
5	Ab	503	A1A0P	C45-C46-C47-C48
5	Ad	503	A1A0P	C45-C46-C47-C48
5	Af	503	A1A0P	C45-C46-C47-C48
5	Ag	503	A1A0P	C45-C46-C47-C48
5	Ba	307	A1A0P	C22-C23-C24-C25
5	Bb	306	A1A0P	C22-C23-C24-C25
5	Bc	306	A1A0P	C22-C23-C24-C25
5	Bd	307	A1A0P	C22-C23-C24-C25
5	Be	306	A1A0P	C22-C23-C24-C25
5	Bf	306	A1A0P	C22-C23-C24-C25
5	Bg	306	A1A0P	C43-C44-C45-C46
5	Bg	307	A1A0P	C22-C23-C24-C25
5	Bh	306	A1A0P	C22-C23-C24-C25
5	Bi	305	A1A0P	C43-C44-C45-C46
5	Bi	306	A1A0P	C22-C23-C24-C25
5	Ba	303	A1A0P	C29-C30-C31-C32
5	Ba	306	A1A0P	C43-C44-C45-C46
5	Bb	302	A1A0P	C29-C30-C31-C32

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Mol	Chain	Res	Type	Atoms
5	Bb	305	A1A0P	C43-C44-C45-C46
5	Bc	305	A1A0P	C43-C44-C45-C46
5	Bd	306	A1A0P	C43-C44-C45-C46
5	Be	305	A1A0P	C43-C44-C45-C46
5	Bf	305	A1A0P	C43-C44-C45-C46
5	Bg	303	A1A0P	C29-C30-C31-C32
5	Bh	302	A1A0P	C29-C30-C31-C32
5	Bh	305	A1A0P	C43-C44-C45-C46
5	Cb	305	A1A0P	C34-C35-C36-C37
5	Cd	305	A1A0P	C34-C35-C36-C37
5	Ce	305	A1A0P	C34-C35-C36-C37
5	Ch	305	A1A0P	C34-C35-C36-C37
5	Ci	305	A1A0P	C34-C35-C36-C37
5	Ca	301	A1A0P	C17-C19-C20-C21
5	Cb	301	A1A0P	C17-C19-C20-C21
5	Cc	301	A1A0P	C17-C19-C20-C21
5	Cd	301	A1A0P	C17-C19-C20-C21
5	Ce	301	A1A0P	C17-C19-C20-C21
5	Ch	301	A1A0P	C17-C19-C20-C21
5	Be	302	A1A0P	C29-C30-C31-C32
5	Bf	302	A1A0P	C29-C30-C31-C32
5	Ca	305	A1A0P	C34-C35-C36-C37
5	Cc	305	A1A0P	C34-C35-C36-C37
5	Cf	305	A1A0P	C34-C35-C36-C37
5	Cg	305	A1A0P	C34-C35-C36-C37
5	Aa	503	A1A0P	O6-C1-C2-O3
5	Ab	503	A1A0P	O6-C1-C2-O3
5	Ac	503	A1A0P	O6-C1-C2-O3
5	Ad	503	A1A0P	O6-C1-C2-O3
5	Ae	503	A1A0P	O6-C1-C2-O3
5	Af	503	A1A0P	O6-C1-C2-O3
5	Ag	503	A1A0P	O6-C1-C2-O3
5	Ah	503	A1A0P	O6-C1-C2-O3
5	Ai	503	A1A0P	O6-C1-C2-O3
5	Ba	309	A1A0P	C35-C36-C37-C38
5	Bd	303	A1A0P	C29-C30-C31-C32
5	Bd	309	A1A0P	C35-C36-C37-C38
5	Be	308	A1A0P	C35-C36-C37-C38
5	Bf	307	A1A0P	C35-C36-C37-C38
5	Bi	302	A1A0P	C29-C30-C31-C32
5	Ba	308	A1A0P	C28-C29-C30-C31
5	Bb	307	A1A0P	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
5	Bc	302	A1A0P	C29-C30-C31-C32
5	Bc	308	A1A0P	C35-C36-C37-C38
5	Bg	309	A1A0P	C35-C36-C37-C38
5	Bh	307	A1A0P	C35-C36-C37-C38
5	Bi	308	A1A0P	C35-C36-C37-C38
5	Ca	305	A1A0P	C45-C46-C47-C48
5	Cb	305	A1A0P	C45-C46-C47-C48
5	Cc	305	A1A0P	C45-C46-C47-C48
5	Cd	305	A1A0P	C45-C46-C47-C48
5	Ce	305	A1A0P	C45-C46-C47-C48
5	Cf	305	A1A0P	C45-C46-C47-C48
5	Cg	305	A1A0P	C45-C46-C47-C48
5	Ch	305	A1A0P	C45-C46-C47-C48
5	Ci	305	A1A0P	C45-C46-C47-C48
5	Cg	301	A1A0P	C17-C19-C20-C21
5	Ba	308	A1A0P	C35-C36-C37-C38
5	Bb	307	A1A0P	C22-C23-C24-C25
5	Bb	309	A1A0P	C28-C29-C30-C31
5	Bc	307	A1A0P	C28-C29-C30-C31
5	Bc	308	A1A0P	C22-C23-C24-C25
5	Bd	308	A1A0P	C28-C29-C30-C31
5	Be	307	A1A0P	C28-C29-C30-C31
5	Bf	308	A1A0P	C28-C29-C30-C31
5	Bg	308	A1A0P	C28-C29-C30-C31
5	Bh	308	A1A0P	C28-C29-C30-C31
5	Bi	307	A1A0P	C28-C29-C30-C31
5	Bi	308	A1A0P	C22-C23-C24-C25
5	Ba	309	A1A0P	C22-C23-C24-C25
5	Bc	307	A1A0P	C35-C36-C37-C38
5	Bd	309	A1A0P	C22-C23-C24-C25
5	Bf	307	A1A0P	C22-C23-C24-C25
5	Bf	308	A1A0P	C35-C36-C37-C38
5	Bh	307	A1A0P	C22-C23-C24-C25
5	Bi	307	A1A0P	C35-C36-C37-C38
5	Bd	308	A1A0P	C35-C36-C37-C38
5	Be	308	A1A0P	C22-C23-C24-C25
5	Bg	309	A1A0P	C22-C23-C24-C25
5	Ca	304	A1A0P	C37-C38-C39-C40
5	Cb	304	A1A0P	C37-C38-C39-C40
5	Cc	304	A1A0P	C37-C38-C39-C40
5	Cd	304	A1A0P	C37-C38-C39-C40
5	Ce	304	A1A0P	C37-C38-C39-C40

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Mol	Chain	Res	Type	Atoms
5	Cf	304	A1A0P	C37-C38-C39-C40
5	Cg	304	A1A0P	C37-C38-C39-C40
5	Ch	304	A1A0P	C37-C38-C39-C40
5	Ci	304	A1A0P	C37-C38-C39-C40
5	Bc	302	A1A0P	C45-C46-C47-C48
5	Bd	303	A1A0P	C45-C46-C47-C48
5	Be	302	A1A0P	C45-C46-C47-C48
5	Bf	302	A1A0P	C45-C46-C47-C48
5	Bg	303	A1A0P	C45-C46-C47-C48
5	Bh	302	A1A0P	C45-C46-C47-C48
5	Bi	302	A1A0P	C45-C46-C47-C48
5	Ab	503	A1A0P	C36-C37-C38-C39
5	Ad	503	A1A0P	C36-C37-C38-C39
5	Bb	309	A1A0P	C35-C36-C37-C38
5	Be	307	A1A0P	C35-C36-C37-C38
5	Bg	308	A1A0P	C35-C36-C37-C38
5	Cf	301	A1A0P	C17-C19-C20-C21
5	Aa	503	A1A0P	C36-C37-C38-C39
5	Ac	503	A1A0P	C36-C37-C38-C39
5	Ae	503	A1A0P	C34-C35-C36-C37
5	Af	503	A1A0P	C36-C37-C38-C39
5	Ag	503	A1A0P	C36-C37-C38-C39
5	Ah	503	A1A0P	C36-C37-C38-C39
5	Ai	503	A1A0P	C36-C37-C38-C39
5	Bh	308	A1A0P	C35-C36-C37-C38
5	Ae	503	A1A0P	C36-C37-C38-C39
5	Ba	303	A1A0P	C45-C46-C47-C48
5	Bb	302	A1A0P	C45-C46-C47-C48
5	Aa	503	A1A0P	C34-C35-C36-C37
5	Ac	503	A1A0P	C34-C35-C36-C37
5	Af	503	A1A0P	C34-C35-C36-C37
5	Ag	503	A1A0P	C34-C35-C36-C37
5	Ai	503	A1A0P	C34-C35-C36-C37
5	Ab	503	A1A0P	C34-C35-C36-C37
5	Ad	503	A1A0P	C34-C35-C36-C37
5	Ah	503	A1A0P	C34-C35-C36-C37
5	Cg	306	A1A0P	C24-C25-C26-C27
5	Ci	301	A1A0P	C17-C19-C20-C21
5	Ca	306	A1A0P	C24-C25-C26-C27
5	Cb	306	A1A0P	C24-C25-C26-C27
5	Cf	306	A1A0P	C24-C25-C26-C27
5	Ch	306	A1A0P	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
5	Ci	306	A1A0P	C24-C25-C26-C27
5	Cc	306	A1A0P	C24-C25-C26-C27
5	Cd	303	A1A0P	C42-C43-C44-C45
5	Cd	306	A1A0P	C24-C25-C26-C27
5	Ce	306	A1A0P	C24-C25-C26-C27
5	Cg	303	A1A0P	C42-C43-C44-C45
5	Cg	304	A1A0P	C22-C23-C24-C25
5	Ci	303	A1A0P	C42-C43-C44-C45
5	Ci	304	A1A0P	C22-C23-C24-C25
5	Ca	303	A1A0P	C42-C43-C44-C45
5	Ca	304	A1A0P	C22-C23-C24-C25
5	Cb	303	A1A0P	C42-C43-C44-C45
5	Cb	304	A1A0P	C22-C23-C24-C25
5	Cc	303	A1A0P	C42-C43-C44-C45
5	Cc	304	A1A0P	C22-C23-C24-C25
5	Cd	304	A1A0P	C22-C23-C24-C25
5	Ce	303	A1A0P	C42-C43-C44-C45
5	Ce	304	A1A0P	C22-C23-C24-C25
5	Cf	303	A1A0P	C42-C43-C44-C45
5	Cf	304	A1A0P	C22-C23-C24-C25
5	Ch	303	A1A0P	C42-C43-C44-C45
5	Ch	304	A1A0P	C22-C23-C24-C25
5	Ca	303	A1A0P	C38-C39-C40-C41
5	Cb	303	A1A0P	C38-C39-C40-C41
5	Cc	303	A1A0P	C38-C39-C40-C41
5	Cd	303	A1A0P	C38-C39-C40-C41
5	Ce	303	A1A0P	C38-C39-C40-C41
5	Cf	303	A1A0P	C38-C39-C40-C41
5	Cg	303	A1A0P	C38-C39-C40-C41
5	Ch	303	A1A0P	C38-C39-C40-C41
5	Ci	303	A1A0P	C38-C39-C40-C41
5	Aa	502	A1A0P	C23-C24-C25-C26
5	Ac	502	A1A0P	C23-C24-C25-C26
5	Ad	502	A1A0P	C23-C24-C25-C26
5	Ae	502	A1A0P	C23-C24-C25-C26
5	Ag	502	A1A0P	C23-C24-C25-C26
5	Ah	502	A1A0P	C23-C24-C25-C26
5	Ai	502	A1A0P	C23-C24-C25-C26
5	Ab	502	A1A0P	C23-C24-C25-C26
5	Af	502	A1A0P	C23-C24-C25-C26
5	Cb	308	A1A0P	C35-C34-C7-C4
5	Ac	504	A1A0P	C2-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Ae	504	A1A0P	C2-C1-C8-O9
5	Af	504	A1A0P	C2-C1-C8-O9
5	Ag	504	A1A0P	C2-C1-C8-O9
5	Ah	504	A1A0P	C2-C1-C8-O9
5	Ai	504	A1A0P	C2-C1-C8-O9
5	Ba	305	A1A0P	C2-C1-C8-O9
5	Ba	309	A1A0P	C2-C1-C8-O9
5	Ba	310	A1A0P	C2-C1-C8-O9
5	Bb	304	A1A0P	C2-C1-C8-O9
5	Bb	307	A1A0P	C2-C1-C8-O9
5	Bb	308	A1A0P	C2-C1-C8-O9
5	Bc	304	A1A0P	C2-C1-C8-O9
5	Bc	308	A1A0P	C2-C1-C8-O9
5	Bd	305	A1A0P	C2-C1-C8-O9
5	Bd	309	A1A0P	C2-C1-C8-O9
5	Be	304	A1A0P	C2-C1-C8-O9
5	Be	308	A1A0P	C2-C1-C8-O9
5	Be	309	A1A0P	C2-C1-C8-O9
5	Bf	304	A1A0P	C2-C1-C8-O9
5	Bf	307	A1A0P	C2-C1-C8-O9
5	Bg	305	A1A0P	C2-C1-C8-O9
5	Bg	309	A1A0P	C2-C1-C8-O9
5	Bh	304	A1A0P	C2-C1-C8-O9
5	Bh	307	A1A0P	C2-C1-C8-O9
5	Bi	304	A1A0P	C2-C1-C8-O9
5	Bi	308	A1A0P	C2-C1-C8-O9
5	Bb	306	A1A0P	C26-C27-C28-C29
5	Bf	306	A1A0P	C26-C27-C28-C29
5	Cd	305	A1A0P	C25-C26-C27-C28
5	Cg	305	A1A0P	C25-C26-C27-C28
5	Ca	308	A1A0P	C35-C34-C7-C4
5	Cc	308	A1A0P	C35-C34-C7-C4
5	Cd	308	A1A0P	C35-C34-C7-C4
5	Ce	308	A1A0P	C35-C34-C7-C4
5	Cf	308	A1A0P	C35-C34-C7-C4
5	Cg	308	A1A0P	C35-C34-C7-C4
5	Ch	308	A1A0P	C35-C34-C7-C4
5	Ci	308	A1A0P	C35-C34-C7-C4
5	Cd	302	A1A0P	C30-C31-C32-C33
5	Ba	307	A1A0P	C26-C27-C28-C29
5	Bd	307	A1A0P	C26-C27-C28-C29
5	Be	306	A1A0P	C26-C27-C28-C29

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Mol	Chain	Res	Type	Atoms
5	Bg	307	A1A0P	C26-C27-C28-C29
5	Bh	306	A1A0P	C26-C27-C28-C29
5	Bi	306	A1A0P	C26-C27-C28-C29
5	Ca	305	A1A0P	C25-C26-C27-C28
5	Cb	305	A1A0P	C25-C26-C27-C28
5	Cf	305	A1A0P	C25-C26-C27-C28
5	Ch	305	A1A0P	C25-C26-C27-C28
5	Ci	305	A1A0P	C25-C26-C27-C28
5	Ca	302	A1A0P	C30-C31-C32-C33
5	Cb	302	A1A0P	C30-C31-C32-C33
5	Cb	306	A1A0P	C45-C46-C47-C48
5	Cc	302	A1A0P	C30-C31-C32-C33
5	Cd	306	A1A0P	C45-C46-C47-C48
5	Ce	302	A1A0P	C30-C31-C32-C33
5	Ce	306	A1A0P	C45-C46-C47-C48
5	Cf	302	A1A0P	C30-C31-C32-C33
5	Cg	302	A1A0P	C30-C31-C32-C33
5	Cg	306	A1A0P	C45-C46-C47-C48
5	Ch	302	A1A0P	C30-C31-C32-C33
5	Ch	306	A1A0P	C45-C46-C47-C48
5	Ci	302	A1A0P	C30-C31-C32-C33
5	Ci	306	A1A0P	C45-C46-C47-C48
5	Bc	306	A1A0P	C26-C27-C28-C29
5	Cc	305	A1A0P	C25-C26-C27-C28
5	Ce	305	A1A0P	C25-C26-C27-C28
5	Ba	309	A1A0P	C38-C39-C40-C41
5	Bb	307	A1A0P	C38-C39-C40-C41
5	Bc	308	A1A0P	C38-C39-C40-C41
5	Bd	309	A1A0P	C38-C39-C40-C41
5	Be	308	A1A0P	C38-C39-C40-C41
5	Bf	307	A1A0P	C38-C39-C40-C41
5	Bg	309	A1A0P	C38-C39-C40-C41
5	Bh	307	A1A0P	C38-C39-C40-C41
5	Bi	308	A1A0P	C38-C39-C40-C41
5	Ca	306	A1A0P	C45-C46-C47-C48
5	Cc	306	A1A0P	C45-C46-C47-C48
5	Cf	306	A1A0P	C45-C46-C47-C48
5	Ce	303	A1A0P	C35-C36-C37-C38
5	Ch	303	A1A0P	C35-C36-C37-C38
5	Bc	301	A1A0P	C36-C37-C38-C39
5	Bf	301	A1A0P	C36-C37-C38-C39
5	Bi	301	A1A0P	C36-C37-C38-C39

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Mol	Chain	Res	Type	Atoms
5	Cb	303	A1A0P	C35-C36-C37-C38
5	Cc	303	A1A0P	C35-C36-C37-C38
5	Cf	303	A1A0P	C35-C36-C37-C38
5	Cg	303	A1A0P	C35-C36-C37-C38
5	Ah	504	A1A0P	C28-C29-C30-C31
5	Ba	302	A1A0P	C36-C37-C38-C39
5	Bb	301	A1A0P	C36-C37-C38-C39
5	Bd	302	A1A0P	C36-C37-C38-C39
5	Be	301	A1A0P	C36-C37-C38-C39
5	Bg	302	A1A0P	C36-C37-C38-C39
5	Bh	301	A1A0P	C36-C37-C38-C39
5	Ca	303	A1A0P	C35-C36-C37-C38
5	Cd	303	A1A0P	C35-C36-C37-C38
5	Cf	306	A1A0P	C28-C29-C30-C31
5	Cg	306	A1A0P	C28-C29-C30-C31
5	Ci	303	A1A0P	C35-C36-C37-C38
5	Ba	308	A1A0P	C37-C38-C39-C40
5	Bb	309	A1A0P	C37-C38-C39-C40
5	Bc	307	A1A0P	C37-C38-C39-C40
5	Bd	308	A1A0P	C37-C38-C39-C40
5	Be	307	A1A0P	C37-C38-C39-C40
5	Bf	308	A1A0P	C37-C38-C39-C40
5	Bg	308	A1A0P	C37-C38-C39-C40
5	Bh	308	A1A0P	C37-C38-C39-C40
5	Bi	307	A1A0P	C37-C38-C39-C40
5	Ac	504	A1A0P	C28-C29-C30-C31
5	Ae	504	A1A0P	C28-C29-C30-C31
5	Af	504	A1A0P	C28-C29-C30-C31
5	Ag	504	A1A0P	C28-C29-C30-C31
5	Ai	504	A1A0P	C28-C29-C30-C31
5	Ba	310	A1A0P	C28-C29-C30-C31
5	Bb	308	A1A0P	C28-C29-C30-C31
5	Be	309	A1A0P	C28-C29-C30-C31
5	Ca	306	A1A0P	C28-C29-C30-C31
5	Cc	306	A1A0P	C28-C29-C30-C31
5	Ce	306	A1A0P	C28-C29-C30-C31
5	Ci	306	A1A0P	C28-C29-C30-C31
5	Bh	302	A1A0P	C30-C31-C32-C33
5	Ch	306	A1A0P	C28-C29-C30-C31
5	Ba	303	A1A0P	C30-C31-C32-C33
5	Bb	302	A1A0P	C30-C31-C32-C33
5	Bd	303	A1A0P	C30-C31-C32-C33

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Mol	Chain	Res	Type	Atoms
5	Bd	308	A1A0P	C30-C31-C32-C33
5	Be	307	A1A0P	C30-C31-C32-C33
5	Bi	302	A1A0P	C30-C31-C32-C33
5	Cb	301	A1A0P	C42-C43-C44-C45
5	Cb	306	A1A0P	C28-C29-C30-C31
5	Cc	301	A1A0P	C42-C43-C44-C45
5	Cd	301	A1A0P	C42-C43-C44-C45
5	Cd	306	A1A0P	C28-C29-C30-C31
5	Ce	301	A1A0P	C42-C43-C44-C45
5	Aa	503	A1A0P	C8-C1-C2-O3
5	Ab	503	A1A0P	C8-C1-C2-O3
5	Ac	503	A1A0P	C8-C1-C2-O3
5	Ad	503	A1A0P	C8-C1-C2-O3
5	Ae	503	A1A0P	C8-C1-C2-O3
5	Af	503	A1A0P	C8-C1-C2-O3
5	Ag	503	A1A0P	C8-C1-C2-O3
5	Ah	503	A1A0P	C8-C1-C2-O3
5	Ai	503	A1A0P	C8-C1-C2-O3
5	Ba	302	A1A0P	C8-C1-C2-O3
5	Ba	308	A1A0P	C8-C1-C2-O3
5	Ba	309	A1A0P	C8-C1-C2-O3
5	Bb	301	A1A0P	C8-C1-C2-O3
5	Bb	307	A1A0P	C8-C1-C2-O3
5	Bb	309	A1A0P	C8-C1-C2-O3
5	Bc	301	A1A0P	C8-C1-C2-O3
5	Bc	307	A1A0P	C8-C1-C2-O3
5	Bc	308	A1A0P	C8-C1-C2-O3
5	Bd	302	A1A0P	C8-C1-C2-O3
5	Bd	308	A1A0P	C8-C1-C2-O3
5	Bd	309	A1A0P	C8-C1-C2-O3
5	Be	301	A1A0P	C8-C1-C2-O3
5	Be	307	A1A0P	C8-C1-C2-O3
5	Be	308	A1A0P	C8-C1-C2-O3
5	Bf	301	A1A0P	C8-C1-C2-O3
5	Bf	307	A1A0P	C8-C1-C2-O3
5	Bf	308	A1A0P	C8-C1-C2-O3
5	Bg	302	A1A0P	C8-C1-C2-O3
5	Bg	308	A1A0P	C8-C1-C2-O3
5	Bg	309	A1A0P	C8-C1-C2-O3
5	Bh	301	A1A0P	C8-C1-C2-O3
5	Bh	307	A1A0P	C8-C1-C2-O3
5	Bh	308	A1A0P	C8-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Bi	301	A1A0P	C8-C1-C2-O3
5	Bi	307	A1A0P	C8-C1-C2-O3
5	Bi	308	A1A0P	C8-C1-C2-O3
5	Ca	303	A1A0P	C8-C1-C2-O3
5	Cb	303	A1A0P	C8-C1-C2-O3
5	Cc	303	A1A0P	C8-C1-C2-O3
5	Cd	303	A1A0P	C8-C1-C2-O3
5	Ce	303	A1A0P	C8-C1-C2-O3
5	Cf	303	A1A0P	C8-C1-C2-O3
5	Cg	303	A1A0P	C8-C1-C2-O3
5	Ch	303	A1A0P	C8-C1-C2-O3
5	Ci	303	A1A0P	C8-C1-C2-O3
5	Ca	301	A1A0P	C42-C43-C44-C45
5	Cf	301	A1A0P	C42-C43-C44-C45
5	Cg	301	A1A0P	C42-C43-C44-C45
5	Ch	301	A1A0P	C42-C43-C44-C45
5	Ci	301	A1A0P	C42-C43-C44-C45
5	Ba	308	A1A0P	C30-C31-C32-C33
5	Bb	309	A1A0P	C30-C31-C32-C33
5	Bc	302	A1A0P	C30-C31-C32-C33
5	Bc	307	A1A0P	C30-C31-C32-C33
5	Be	302	A1A0P	C30-C31-C32-C33
5	Bf	302	A1A0P	C30-C31-C32-C33
5	Bf	308	A1A0P	C30-C31-C32-C33
5	Bg	303	A1A0P	C30-C31-C32-C33
5	Bg	308	A1A0P	C30-C31-C32-C33
5	Bh	308	A1A0P	C30-C31-C32-C33
5	Bi	307	A1A0P	C30-C31-C32-C33
5	Ae	504	A1A0P	C22-C23-C24-C25
5	Af	504	A1A0P	C22-C23-C24-C25
5	Ag	504	A1A0P	C22-C23-C24-C25
5	Ai	504	A1A0P	C22-C23-C24-C25
5	Ac	504	A1A0P	C22-C23-C24-C25
5	Ah	504	A1A0P	C22-C23-C24-C25
5	Ba	310	A1A0P	C22-C23-C24-C25
5	Bb	308	A1A0P	C22-C23-C24-C25
5	Be	309	A1A0P	C22-C23-C24-C25
5	Ac	504	A1A0P	O6-C1-C8-O9
5	Ae	504	A1A0P	O6-C1-C8-O9
5	Af	504	A1A0P	O6-C1-C8-O9
5	Ag	504	A1A0P	O6-C1-C8-O9
5	Ah	504	A1A0P	O6-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Ai	504	A1A0P	O6-C1-C8-O9
5	Ba	309	A1A0P	O6-C1-C8-O9
5	Ba	310	A1A0P	O6-C1-C8-O9
5	Bb	307	A1A0P	O6-C1-C8-O9
5	Bb	308	A1A0P	O6-C1-C8-O9
5	Bc	308	A1A0P	O6-C1-C8-O9
5	Bd	309	A1A0P	O6-C1-C8-O9
5	Be	308	A1A0P	O6-C1-C8-O9
5	Be	309	A1A0P	O6-C1-C8-O9
5	Bf	307	A1A0P	O6-C1-C8-O9
5	Bg	309	A1A0P	O6-C1-C8-O9
5	Bh	307	A1A0P	O6-C1-C8-O9
5	Bi	308	A1A0P	O6-C1-C8-O9
5	Bb	302	A1A0P	C19-C20-C21-C22
5	Bc	302	A1A0P	C19-C20-C21-C22
5	Bf	302	A1A0P	C19-C20-C21-C22
5	Bg	303	A1A0P	C19-C20-C21-C22
5	Bh	302	A1A0P	C19-C20-C21-C22
5	Ca	305	A1A0P	C28-C29-C30-C31
5	Cb	305	A1A0P	C28-C29-C30-C31
5	Cc	305	A1A0P	C28-C29-C30-C31
5	Cd	305	A1A0P	C28-C29-C30-C31
5	Ce	305	A1A0P	C28-C29-C30-C31
5	Cg	305	A1A0P	C28-C29-C30-C31
5	Ch	305	A1A0P	C28-C29-C30-C31
5	Ci	305	A1A0P	C28-C29-C30-C31
5	Ba	303	A1A0P	C19-C20-C21-C22
5	Bd	303	A1A0P	C19-C20-C21-C22
5	Be	302	A1A0P	C19-C20-C21-C22
5	Cf	305	A1A0P	C28-C29-C30-C31
5	Ba	306	A1A0P	C1-C8-O9-P14
5	Bb	305	A1A0P	C1-C8-O9-P14
5	Bc	305	A1A0P	C1-C8-O9-P14
5	Bd	306	A1A0P	C1-C8-O9-P14
5	Be	305	A1A0P	C1-C8-O9-P14
5	Bf	305	A1A0P	C1-C8-O9-P14
5	Bg	306	A1A0P	C1-C8-O9-P14
5	Bh	305	A1A0P	C1-C8-O9-P14
5	Bi	305	A1A0P	C1-C8-O9-P14
5	Bi	302	A1A0P	C19-C20-C21-C22
5	Aa	502	A1A0P	C19-C20-C21-C22
5	Ab	502	A1A0P	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
5	Ac	502	A1A0P	C19-C20-C21-C22
5	Ad	502	A1A0P	C19-C20-C21-C22
5	Ae	502	A1A0P	C19-C20-C21-C22
5	Af	502	A1A0P	C19-C20-C21-C22
5	Ag	502	A1A0P	C19-C20-C21-C22
5	Ah	502	A1A0P	C19-C20-C21-C22
5	Ai	502	A1A0P	C19-C20-C21-C22
5	Ac	504	A1A0P	O6-C1-C2-O3
5	Ae	504	A1A0P	O6-C1-C2-O3
5	Af	504	A1A0P	O6-C1-C2-O3
5	Ag	504	A1A0P	O6-C1-C2-O3
5	Ah	504	A1A0P	O6-C1-C2-O3
5	Ai	504	A1A0P	O6-C1-C2-O3
5	Ba	308	A1A0P	O6-C1-C2-O3
5	Ba	309	A1A0P	O6-C1-C2-O3
5	Ba	310	A1A0P	O6-C1-C2-O3
5	Bb	307	A1A0P	O6-C1-C2-O3
5	Bb	308	A1A0P	O6-C1-C2-O3
5	Bb	309	A1A0P	O6-C1-C2-O3
5	Bc	307	A1A0P	O6-C1-C2-O3
5	Bc	308	A1A0P	O6-C1-C2-O3
5	Bd	308	A1A0P	O6-C1-C2-O3
5	Bd	309	A1A0P	O6-C1-C2-O3
5	Be	307	A1A0P	O6-C1-C2-O3
5	Be	308	A1A0P	O6-C1-C2-O3
5	Be	309	A1A0P	O6-C1-C2-O3
5	Bf	307	A1A0P	O6-C1-C2-O3
5	Bf	308	A1A0P	O6-C1-C2-O3
5	Bg	308	A1A0P	O6-C1-C2-O3
5	Bg	309	A1A0P	O6-C1-C2-O3
5	Bh	307	A1A0P	O6-C1-C2-O3
5	Bh	308	A1A0P	O6-C1-C2-O3
5	Bi	307	A1A0P	O6-C1-C2-O3
5	Bi	308	A1A0P	O6-C1-C2-O3
5	Ca	303	A1A0P	O6-C1-C2-O3
5	Ca	308	A1A0P	O6-C1-C2-O3
5	Cb	303	A1A0P	O6-C1-C2-O3
5	Cb	308	A1A0P	O6-C1-C2-O3
5	Cc	303	A1A0P	O6-C1-C2-O3
5	Cc	308	A1A0P	O6-C1-C2-O3
5	Cd	303	A1A0P	O6-C1-C2-O3
5	Cd	308	A1A0P	O6-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Ce	303	A1A0P	O6-C1-C2-O3
5	Ce	308	A1A0P	O6-C1-C2-O3
5	Cf	303	A1A0P	O6-C1-C2-O3
5	Cf	308	A1A0P	O6-C1-C2-O3
5	Cg	303	A1A0P	O6-C1-C2-O3
5	Cg	308	A1A0P	O6-C1-C2-O3
5	Ch	303	A1A0P	O6-C1-C2-O3
5	Ch	308	A1A0P	O6-C1-C2-O3
5	Ci	303	A1A0P	O6-C1-C2-O3
5	Ci	308	A1A0P	O6-C1-C2-O3
5	Ce	301	A1A0P	C45-C46-C47-C48
5	Cg	301	A1A0P	C45-C46-C47-C48
5	Cf	301	A1A0P	C45-C46-C47-C48
5	Ci	301	A1A0P	C45-C46-C47-C48
5	Ca	301	A1A0P	C45-C46-C47-C48
5	Cb	301	A1A0P	C45-C46-C47-C48
5	Cc	301	A1A0P	C45-C46-C47-C48
5	Cd	301	A1A0P	C45-C46-C47-C48
5	Ch	301	A1A0P	C45-C46-C47-C48
5	Ba	304	A1A0P	C42-C43-C44-C45
5	Ca	306	A1A0P	C38-C39-C40-C41
5	Cb	306	A1A0P	C38-C39-C40-C41
5	Cc	306	A1A0P	C38-C39-C40-C41
5	Cd	306	A1A0P	C38-C39-C40-C41
5	Ce	306	A1A0P	C38-C39-C40-C41
5	Cf	306	A1A0P	C38-C39-C40-C41
5	Cg	306	A1A0P	C38-C39-C40-C41
5	Ch	306	A1A0P	C38-C39-C40-C41
5	Ci	306	A1A0P	C38-C39-C40-C41
5	Be	303	A1A0P	C42-C43-C44-C45
5	Bg	304	A1A0P	C42-C43-C44-C45
5	Bb	303	A1A0P	C42-C43-C44-C45
5	Bc	303	A1A0P	C42-C43-C44-C45
5	Ba	304	A1A0P	C41-C42-C43-C44
5	Bb	303	A1A0P	C41-C42-C43-C44
5	Bc	303	A1A0P	C41-C42-C43-C44
5	Bd	304	A1A0P	C41-C42-C43-C44
5	Be	303	A1A0P	C41-C42-C43-C44
5	Bf	303	A1A0P	C41-C42-C43-C44
5	Bg	304	A1A0P	C41-C42-C43-C44
5	Bh	303	A1A0P	C41-C42-C43-C44
5	Bi	303	A1A0P	C41-C42-C43-C44

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Mol	Chain	Res	Type	Atoms
5	Bd	304	A1A0P	C42-C43-C44-C45
5	Bf	303	A1A0P	C42-C43-C44-C45
5	Bh	303	A1A0P	C42-C43-C44-C45
5	Bi	303	A1A0P	C42-C43-C44-C45
5	Cb	308	A1A0P	C38-C39-C40-C41
5	Cc	308	A1A0P	C38-C39-C40-C41
5	Cd	308	A1A0P	C38-C39-C40-C41
5	Ce	308	A1A0P	C38-C39-C40-C41
5	Cf	308	A1A0P	C38-C39-C40-C41
5	Ch	308	A1A0P	C38-C39-C40-C41
5	Ca	306	A1A0P	C20-C21-C22-C23
5	Cb	306	A1A0P	C20-C21-C22-C23
5	Cc	306	A1A0P	C20-C21-C22-C23
5	Cd	306	A1A0P	C20-C21-C22-C23
5	Ce	306	A1A0P	C20-C21-C22-C23
5	Cf	306	A1A0P	C20-C21-C22-C23
5	Cg	306	A1A0P	C20-C21-C22-C23
5	Ch	306	A1A0P	C20-C21-C22-C23
5	Ci	306	A1A0P	C20-C21-C22-C23
5	Cg	303	A1A0P	C34-C35-C36-C37
5	Ci	303	A1A0P	C34-C35-C36-C37
5	Ca	308	A1A0P	C38-C39-C40-C41
5	Cg	308	A1A0P	C38-C39-C40-C41
5	Ci	308	A1A0P	C38-C39-C40-C41
5	Bb	302	A1A0P	C44-C45-C46-C47
5	Bc	302	A1A0P	C44-C45-C46-C47
5	Bd	303	A1A0P	C44-C45-C46-C47
5	Be	302	A1A0P	C44-C45-C46-C47
5	Bf	302	A1A0P	C44-C45-C46-C47
5	Bg	303	A1A0P	C44-C45-C46-C47
5	Ca	302	A1A0P	C19-C20-C21-C22
5	Cb	302	A1A0P	C19-C20-C21-C22
5	Cc	302	A1A0P	C19-C20-C21-C22
5	Cd	302	A1A0P	C19-C20-C21-C22
5	Ce	302	A1A0P	C19-C20-C21-C22
5	Cf	302	A1A0P	C19-C20-C21-C22
5	Cg	302	A1A0P	C19-C20-C21-C22
5	Ch	302	A1A0P	C19-C20-C21-C22
5	Ba	303	A1A0P	C44-C45-C46-C47
5	Bh	302	A1A0P	C44-C45-C46-C47
5	Ci	302	A1A0P	C19-C20-C21-C22
5	Bi	302	A1A0P	C44-C45-C46-C47

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Mol	Chain	Res	Type	Atoms
5	Ca	303	A1A0P	C34-C35-C36-C37
5	Cc	301	A1A0P	C7-C34-C35-C36
5	Ce	303	A1A0P	C34-C35-C36-C37
5	Ca	301	A1A0P	C7-C34-C35-C36
5	Cb	301	A1A0P	C7-C34-C35-C36
5	Cc	303	A1A0P	C34-C35-C36-C37
5	Cd	301	A1A0P	C7-C34-C35-C36
5	Ce	301	A1A0P	C7-C34-C35-C36
5	Cf	301	A1A0P	C7-C34-C35-C36
5	Cf	303	A1A0P	C34-C35-C36-C37
5	Cf	304	A1A0P	C43-C44-C45-C46
5	Cg	301	A1A0P	C7-C34-C35-C36
5	Cg	304	A1A0P	C43-C44-C45-C46
5	Ch	301	A1A0P	C7-C34-C35-C36
5	Ch	303	A1A0P	C34-C35-C36-C37
5	Ci	301	A1A0P	C7-C34-C35-C36
5	Ca	304	A1A0P	C43-C44-C45-C46
5	Ca	308	A1A0P	C25-C26-C27-C28
5	Cb	303	A1A0P	C34-C35-C36-C37
5	Cb	308	A1A0P	C25-C26-C27-C28
5	Cc	304	A1A0P	C43-C44-C45-C46
5	Cc	308	A1A0P	C25-C26-C27-C28
5	Cf	308	A1A0P	C25-C26-C27-C28
5	Ci	308	A1A0P	C25-C26-C27-C28
5	Cd	303	A1A0P	C34-C35-C36-C37
5	Cd	308	A1A0P	C25-C26-C27-C28
5	Ce	304	A1A0P	C43-C44-C45-C46
5	Ce	308	A1A0P	C25-C26-C27-C28
5	Cg	308	A1A0P	C25-C26-C27-C28
5	Ch	304	A1A0P	C43-C44-C45-C46
5	Ch	308	A1A0P	C25-C26-C27-C28
5	Ci	304	A1A0P	C43-C44-C45-C46
5	Cb	304	A1A0P	C43-C44-C45-C46
5	Cd	304	A1A0P	C43-C44-C45-C46
5	Ba	309	A1A0P	C41-C42-C43-C44
5	Bb	307	A1A0P	C41-C42-C43-C44
5	Bc	308	A1A0P	C41-C42-C43-C44
5	Bd	309	A1A0P	C41-C42-C43-C44
5	Be	308	A1A0P	C41-C42-C43-C44
5	Bf	307	A1A0P	C41-C42-C43-C44
5	Bg	309	A1A0P	C41-C42-C43-C44
5	Bh	307	A1A0P	C41-C42-C43-C44

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Mol	Chain	Res	Type	Atoms
5	Bi	308	A1A0P	C41-C42-C43-C44
5	Bf	308	A1A0P	C29-C30-C31-C32
5	Bh	308	A1A0P	C29-C30-C31-C32
5	Bi	307	A1A0P	C29-C30-C31-C32
5	Ba	303	A1A0P	C25-C26-C27-C28
5	Bb	302	A1A0P	C25-C26-C27-C28
5	Bc	302	A1A0P	C25-C26-C27-C28
5	Bf	302	A1A0P	C25-C26-C27-C28
5	Bg	303	A1A0P	C25-C26-C27-C28
5	Bh	302	A1A0P	C25-C26-C27-C28
5	Bi	302	A1A0P	C25-C26-C27-C28
5	Bb	309	A1A0P	C29-C30-C31-C32
5	Bc	307	A1A0P	C29-C30-C31-C32
5	Bd	303	A1A0P	C25-C26-C27-C28
5	Bd	308	A1A0P	C29-C30-C31-C32
5	Be	302	A1A0P	C25-C26-C27-C28
5	Be	307	A1A0P	C29-C30-C31-C32
5	Ab	503	A1A0P	C30-C31-C32-C33
5	Ac	503	A1A0P	C30-C31-C32-C33
5	Ad	503	A1A0P	C30-C31-C32-C33
5	Ae	503	A1A0P	C30-C31-C32-C33
5	Af	503	A1A0P	C30-C31-C32-C33
5	Ah	503	A1A0P	C30-C31-C32-C33
5	Ba	308	A1A0P	C29-C30-C31-C32
5	Bg	308	A1A0P	C29-C30-C31-C32
5	Aa	503	A1A0P	C30-C31-C32-C33
5	Ai	503	A1A0P	C30-C31-C32-C33
5	Ag	503	A1A0P	C30-C31-C32-C33
5	Ae	504	A1A0P	C23-C24-C25-C26
5	Ai	504	A1A0P	C23-C24-C25-C26
5	Be	305	A1A0P	C20-C21-C22-C23
5	Ac	504	A1A0P	C23-C24-C25-C26
5	Ah	504	A1A0P	C23-C24-C25-C26
5	Bd	306	A1A0P	C20-C21-C22-C23
5	Be	309	A1A0P	C23-C24-C25-C26
5	Bi	305	A1A0P	C20-C21-C22-C23
5	Af	504	A1A0P	C23-C24-C25-C26
5	Ag	504	A1A0P	C23-C24-C25-C26
5	Ba	310	A1A0P	C23-C24-C25-C26
5	Bb	308	A1A0P	C23-C24-C25-C26
5	Bc	305	A1A0P	C20-C21-C22-C23
5	Bf	305	A1A0P	C20-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
5	Bg	306	A1A0P	C20-C21-C22-C23
5	Aa	502	A1A0P	C12-C11-O10-P14
5	Ab	502	A1A0P	C12-C11-O10-P14
5	Ac	502	A1A0P	C12-C11-O10-P14
5	Ad	502	A1A0P	C12-C11-O10-P14
5	Ae	502	A1A0P	C12-C11-O10-P14
5	Af	502	A1A0P	C12-C11-O10-P14
5	Ag	502	A1A0P	C12-C11-O10-P14
5	Ah	502	A1A0P	C12-C11-O10-P14
5	Ai	502	A1A0P	C12-C11-O10-P14
5	Ca	303	A1A0P	C12-C11-O10-P14
5	Cb	303	A1A0P	C12-C11-O10-P14
5	Cc	303	A1A0P	C12-C11-O10-P14
5	Cd	303	A1A0P	C12-C11-O10-P14
5	Ce	303	A1A0P	C12-C11-O10-P14
5	Cf	303	A1A0P	C12-C11-O10-P14
5	Cg	303	A1A0P	C12-C11-O10-P14
5	Ch	303	A1A0P	C12-C11-O10-P14
5	Ci	303	A1A0P	C12-C11-O10-P14
5	Ba	306	A1A0P	C20-C21-C22-C23
5	Bb	305	A1A0P	C20-C21-C22-C23
5	Bh	305	A1A0P	C20-C21-C22-C23
5	Cc	302	A1A0P	C24-C25-C26-C27
5	Ca	307	A1A0P	O6-C1-C2-O3
5	Cb	307	A1A0P	O6-C1-C2-O3
5	Cc	307	A1A0P	O6-C1-C2-O3
5	Cd	307	A1A0P	O6-C1-C2-O3
5	Ce	307	A1A0P	O6-C1-C2-O3
5	Cf	307	A1A0P	O6-C1-C2-O3
5	Cg	307	A1A0P	O6-C1-C2-O3
5	Ch	307	A1A0P	O6-C1-C2-O3
5	Ci	307	A1A0P	O6-C1-C2-O3
5	Ca	302	A1A0P	C24-C25-C26-C27
5	Ch	302	A1A0P	C24-C25-C26-C27
5	Cb	302	A1A0P	C24-C25-C26-C27
5	Cd	302	A1A0P	C24-C25-C26-C27
5	Ce	302	A1A0P	C24-C25-C26-C27
5	Cf	302	A1A0P	C24-C25-C26-C27
5	Cg	302	A1A0P	C24-C25-C26-C27
5	Ci	302	A1A0P	C24-C25-C26-C27
5	Ba	308	A1A0P	C42-C43-C44-C45
5	Bc	307	A1A0P	C42-C43-C44-C45

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Mol	Chain	Res	Type	Atoms
5	Be	307	A1A0P	C42-C43-C44-C45
5	Bf	308	A1A0P	C42-C43-C44-C45
5	Bi	307	A1A0P	C42-C43-C44-C45
5	Cg	303	A1A0P	C45-C46-C47-C48
5	Bb	309	A1A0P	C42-C43-C44-C45
5	Bg	308	A1A0P	C42-C43-C44-C45
5	Bh	308	A1A0P	C42-C43-C44-C45
5	Ca	303	A1A0P	C45-C46-C47-C48
5	Cb	303	A1A0P	C45-C46-C47-C48
5	Cc	303	A1A0P	C45-C46-C47-C48
5	Cd	303	A1A0P	C45-C46-C47-C48
5	Ce	303	A1A0P	C45-C46-C47-C48
5	Cf	303	A1A0P	C45-C46-C47-C48
5	Ch	303	A1A0P	C45-C46-C47-C48
5	Ci	303	A1A0P	C45-C46-C47-C48
5	Bd	308	A1A0P	C42-C43-C44-C45
5	Ba	309	A1A0P	C21-C22-C23-C24
5	Bd	309	A1A0P	C21-C22-C23-C24
5	Be	308	A1A0P	C21-C22-C23-C24
5	Bg	309	A1A0P	C21-C22-C23-C24
5	Bh	307	A1A0P	C21-C22-C23-C24
5	Bi	308	A1A0P	C21-C22-C23-C24
5	Bb	307	A1A0P	C21-C22-C23-C24
5	Bf	307	A1A0P	C21-C22-C23-C24
5	Bb	308	A1A0P	C29-C30-C31-C32
5	Af	504	A1A0P	C29-C30-C31-C32
5	Ag	504	A1A0P	C29-C30-C31-C32
5	Ah	504	A1A0P	C29-C30-C31-C32
5	Ai	504	A1A0P	C29-C30-C31-C32
5	Bc	308	A1A0P	C21-C22-C23-C24
5	Be	309	A1A0P	C29-C30-C31-C32
5	Ac	504	A1A0P	C29-C30-C31-C32
5	Ba	310	A1A0P	C29-C30-C31-C32
5	Ae	504	A1A0P	C29-C30-C31-C32
5	Cb	307	A1A0P	C36-C37-C38-C39
5	Cd	307	A1A0P	C36-C37-C38-C39
5	Cg	307	A1A0P	C36-C37-C38-C39
5	Ch	307	A1A0P	C36-C37-C38-C39
5	Ca	307	A1A0P	C36-C37-C38-C39
5	Cf	307	A1A0P	C36-C37-C38-C39
5	Ci	307	A1A0P	C36-C37-C38-C39
5	Ca	304	A1A0P	C38-C39-C40-C41

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Mol	Chain	Res	Type	Atoms
5	Cd	304	A1A0P	C38-C39-C40-C41
5	Ce	304	A1A0P	C38-C39-C40-C41
5	Cf	304	A1A0P	C38-C39-C40-C41
5	Ci	304	A1A0P	C38-C39-C40-C41
5	Cc	307	A1A0P	C36-C37-C38-C39
5	Ce	307	A1A0P	C36-C37-C38-C39
5	Ba	304	A1A0P	C2-C1-C8-O9
5	Bb	303	A1A0P	C2-C1-C8-O9
5	Bc	303	A1A0P	C2-C1-C8-O9
5	Bd	304	A1A0P	C2-C1-C8-O9
5	Be	303	A1A0P	C2-C1-C8-O9
5	Bf	303	A1A0P	C2-C1-C8-O9
5	Bg	304	A1A0P	C2-C1-C8-O9
5	Bh	303	A1A0P	C2-C1-C8-O9
5	Bi	303	A1A0P	C2-C1-C8-O9
5	Ca	301	A1A0P	C2-C1-C8-O9
5	Cb	301	A1A0P	C2-C1-C8-O9
5	Cc	301	A1A0P	C2-C1-C8-O9
5	Cd	301	A1A0P	C2-C1-C8-O9
5	Ce	301	A1A0P	C2-C1-C8-O9
5	Cf	301	A1A0P	C2-C1-C8-O9
5	Cg	301	A1A0P	C2-C1-C8-O9
5	Ch	301	A1A0P	C2-C1-C8-O9
5	Ci	301	A1A0P	C2-C1-C8-O9
5	Ac	504	A1A0P	C26-C27-C28-C29
5	Ae	504	A1A0P	C26-C27-C28-C29
5	Ag	504	A1A0P	C26-C27-C28-C29
5	Ah	504	A1A0P	C26-C27-C28-C29
5	Ai	504	A1A0P	C26-C27-C28-C29
5	Ba	310	A1A0P	C26-C27-C28-C29
5	Be	309	A1A0P	C26-C27-C28-C29
5	Af	504	A1A0P	C26-C27-C28-C29
5	Bb	308	A1A0P	C26-C27-C28-C29
5	Bb	302	A1A0P	C20-C21-C22-C23
5	Bc	302	A1A0P	C20-C21-C22-C23
5	Bd	303	A1A0P	C20-C21-C22-C23
5	Be	302	A1A0P	C20-C21-C22-C23
5	Bf	302	A1A0P	C20-C21-C22-C23
5	Bg	303	A1A0P	C20-C21-C22-C23
5	Bi	302	A1A0P	C20-C21-C22-C23
5	Cb	303	A1A0P	C26-C27-C28-C29
5	Cc	303	A1A0P	C26-C27-C28-C29

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Mol	Chain	Res	Type	Atoms
5	Cd	303	A1A0P	C26-C27-C28-C29
5	Cf	303	A1A0P	C26-C27-C28-C29
5	Ch	303	A1A0P	C26-C27-C28-C29
5	Ci	303	A1A0P	C26-C27-C28-C29
5	Ba	303	A1A0P	C20-C21-C22-C23
5	Bh	302	A1A0P	C20-C21-C22-C23
5	Ca	303	A1A0P	C26-C27-C28-C29
5	Ce	303	A1A0P	C26-C27-C28-C29
5	Cb	304	A1A0P	C38-C39-C40-C41
5	Cc	304	A1A0P	C38-C39-C40-C41
5	Cg	304	A1A0P	C38-C39-C40-C41
5	Ch	304	A1A0P	C38-C39-C40-C41
5	Ca	302	A1A0P	C1-C8-O9-P14
5	Cb	302	A1A0P	C1-C8-O9-P14
5	Cc	302	A1A0P	C1-C8-O9-P14
5	Cd	302	A1A0P	C1-C8-O9-P14
5	Ce	302	A1A0P	C1-C8-O9-P14
5	Cf	302	A1A0P	C1-C8-O9-P14
5	Cg	302	A1A0P	C1-C8-O9-P14
5	Ch	302	A1A0P	C1-C8-O9-P14
5	Ci	302	A1A0P	C1-C8-O9-P14
5	Cg	303	A1A0P	C23-C24-C25-C26
5	Cg	303	A1A0P	C26-C27-C28-C29
5	Ba	304	A1A0P	O6-C1-C8-O9
5	Bb	303	A1A0P	O6-C1-C8-O9
5	Bc	303	A1A0P	O6-C1-C8-O9
5	Bd	304	A1A0P	O6-C1-C8-O9
5	Be	303	A1A0P	O6-C1-C8-O9
5	Bf	303	A1A0P	O6-C1-C8-O9
5	Bg	304	A1A0P	O6-C1-C8-O9
5	Bh	303	A1A0P	O6-C1-C8-O9
5	Bi	303	A1A0P	O6-C1-C8-O9
5	Ca	303	A1A0P	C23-C24-C25-C26
5	Cb	303	A1A0P	C23-C24-C25-C26
5	Cc	303	A1A0P	C23-C24-C25-C26
5	Ce	303	A1A0P	C23-C24-C25-C26
5	Cf	303	A1A0P	C23-C24-C25-C26
5	Cd	303	A1A0P	C23-C24-C25-C26
5	Ci	303	A1A0P	C23-C24-C25-C26
5	Ba	308	A1A0P	C19-C20-C21-C22
5	Bd	308	A1A0P	C19-C20-C21-C22
5	Be	307	A1A0P	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
5	Bg	308	A1A0P	C19-C20-C21-C22
5	Bh	308	A1A0P	C19-C20-C21-C22
5	Bb	309	A1A0P	C19-C20-C21-C22
5	Bc	307	A1A0P	C19-C20-C21-C22
5	Bf	308	A1A0P	C19-C20-C21-C22
5	Bi	307	A1A0P	C19-C20-C21-C22
5	Ch	303	A1A0P	C23-C24-C25-C26
5	Be	305	A1A0P	C28-C29-C30-C31
5	Bh	305	A1A0P	C28-C29-C30-C31
5	Cf	304	A1A0P	C7-C34-C35-C36
5	Aa	502	A1A0P	O6-C1-C2-O3
5	Ab	502	A1A0P	O6-C1-C2-O3
5	Ac	502	A1A0P	O6-C1-C2-O3
5	Ad	502	A1A0P	O6-C1-C2-O3
5	Ae	502	A1A0P	O6-C1-C2-O3
5	Af	502	A1A0P	O6-C1-C2-O3
5	Ag	502	A1A0P	O6-C1-C2-O3
5	Ah	502	A1A0P	O6-C1-C2-O3
5	Ai	502	A1A0P	O6-C1-C2-O3
5	Ba	303	A1A0P	O6-C1-C2-O3
5	Bb	302	A1A0P	O6-C1-C2-O3
5	Bc	302	A1A0P	O6-C1-C2-O3
5	Bd	303	A1A0P	O6-C1-C2-O3
5	Be	302	A1A0P	O6-C1-C2-O3
5	Bf	302	A1A0P	O6-C1-C2-O3
5	Bg	303	A1A0P	O6-C1-C2-O3
5	Bh	302	A1A0P	O6-C1-C2-O3
5	Bi	302	A1A0P	O6-C1-C2-O3
5	Ca	302	A1A0P	O6-C1-C2-O3
5	Ca	304	A1A0P	O6-C1-C2-O3
5	Cb	302	A1A0P	O6-C1-C2-O3
5	Cb	304	A1A0P	O6-C1-C2-O3
5	Cc	302	A1A0P	O6-C1-C2-O3
5	Cc	304	A1A0P	O6-C1-C2-O3
5	Cd	302	A1A0P	O6-C1-C2-O3
5	Cd	304	A1A0P	O6-C1-C2-O3
5	Ce	302	A1A0P	O6-C1-C2-O3
5	Ce	304	A1A0P	O6-C1-C2-O3
5	Cf	302	A1A0P	O6-C1-C2-O3
5	Cf	304	A1A0P	O6-C1-C2-O3
5	Cg	302	A1A0P	O6-C1-C2-O3
5	Cg	304	A1A0P	O6-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Ch	302	A1A0P	O6-C1-C2-O3
5	Ch	304	A1A0P	O6-C1-C2-O3
5	Ci	302	A1A0P	O6-C1-C2-O3
5	Ci	304	A1A0P	O6-C1-C2-O3
5	Bg	306	A1A0P	C28-C29-C30-C31
5	Bb	305	A1A0P	C28-C29-C30-C31
5	Bf	305	A1A0P	C28-C29-C30-C31
5	Ca	304	A1A0P	C7-C34-C35-C36
5	Bc	303	A1A0P	C17-C19-C20-C21
5	Ba	307	A1A0P	C45-C46-C47-C48
5	Bc	306	A1A0P	C45-C46-C47-C48
5	Bc	305	A1A0P	C28-C29-C30-C31
5	Bd	306	A1A0P	C28-C29-C30-C31
5	Bi	305	A1A0P	C28-C29-C30-C31
5	Cg	304	A1A0P	C7-C34-C35-C36
5	Ac	504	A1A0P	C8-C1-C2-O3
5	Ae	504	A1A0P	C8-C1-C2-O3
5	Af	504	A1A0P	C8-C1-C2-O3
5	Ag	504	A1A0P	C8-C1-C2-O3
5	Ah	504	A1A0P	C8-C1-C2-O3
5	Ai	504	A1A0P	C8-C1-C2-O3
5	Ba	310	A1A0P	C8-C1-C2-O3
5	Bb	308	A1A0P	C8-C1-C2-O3
5	Be	309	A1A0P	C8-C1-C2-O3
5	Ca	302	A1A0P	C8-C1-C2-O3
5	Cb	302	A1A0P	C8-C1-C2-O3
5	Cc	302	A1A0P	C8-C1-C2-O3
5	Cd	302	A1A0P	C8-C1-C2-O3
5	Ce	302	A1A0P	C8-C1-C2-O3
5	Cf	302	A1A0P	C8-C1-C2-O3
5	Cg	302	A1A0P	C8-C1-C2-O3
5	Ch	302	A1A0P	C8-C1-C2-O3
5	Ci	302	A1A0P	C8-C1-C2-O3
5	Bb	306	A1A0P	C45-C46-C47-C48
5	Bd	307	A1A0P	C45-C46-C47-C48
5	Be	306	A1A0P	C45-C46-C47-C48
5	Bf	306	A1A0P	C45-C46-C47-C48
5	Bg	307	A1A0P	C45-C46-C47-C48
5	Bi	306	A1A0P	C45-C46-C47-C48
5	Cb	304	A1A0P	C7-C34-C35-C36
5	Cc	304	A1A0P	C7-C34-C35-C36
5	Ce	304	A1A0P	C7-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
5	Ci	304	A1A0P	C7-C34-C35-C36
5	Bh	306	A1A0P	C45-C46-C47-C48
5	Ba	306	A1A0P	C28-C29-C30-C31
5	Cd	304	A1A0P	C7-C34-C35-C36
5	Bd	304	A1A0P	C17-C19-C20-C21
5	Bi	303	A1A0P	C17-C19-C20-C21
5	Ch	304	A1A0P	C7-C34-C35-C36
5	Ba	304	A1A0P	C17-C19-C20-C21
5	Bb	303	A1A0P	C17-C19-C20-C21
5	Be	303	A1A0P	C17-C19-C20-C21
5	Bf	303	A1A0P	C17-C19-C20-C21
5	Bg	304	A1A0P	C17-C19-C20-C21
5	Bh	303	A1A0P	C17-C19-C20-C21
5	Cc	305	A1A0P	C30-C31-C32-C33
5	Ce	305	A1A0P	C30-C31-C32-C33
5	Cg	305	A1A0P	C30-C31-C32-C33
5	Ch	305	A1A0P	C30-C31-C32-C33
5	Ci	305	A1A0P	C30-C31-C32-C33
5	Ca	305	A1A0P	C30-C31-C32-C33
5	Cb	305	A1A0P	C30-C31-C32-C33
5	Cd	305	A1A0P	C30-C31-C32-C33
5	Cf	305	A1A0P	C30-C31-C32-C33
5	Ae	502	A1A0P	C27-C28-C29-C30
5	Af	502	A1A0P	C27-C28-C29-C30
5	Ah	502	A1A0P	C27-C28-C29-C30
5	Ac	502	A1A0P	C27-C28-C29-C30
5	Ai	502	A1A0P	C27-C28-C29-C30
5	Bd	308	A1A0P	C36-C37-C38-C39
5	Aa	502	A1A0P	C27-C28-C29-C30
5	Ag	502	A1A0P	C27-C28-C29-C30
5	Ba	308	A1A0P	C36-C37-C38-C39
5	Bc	307	A1A0P	C36-C37-C38-C39
5	Be	307	A1A0P	C36-C37-C38-C39
5	Ad	502	A1A0P	C27-C28-C29-C30
5	Bb	309	A1A0P	C20-C21-C22-C23
5	Bg	308	A1A0P	C36-C37-C38-C39
5	Bh	308	A1A0P	C20-C21-C22-C23
5	Bi	307	A1A0P	C36-C37-C38-C39
5	Ab	502	A1A0P	C27-C28-C29-C30
5	Bc	307	A1A0P	C20-C21-C22-C23
5	Bf	308	A1A0P	C20-C21-C22-C23
5	Aa	502	A1A0P	C8-O9-P14-O16

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Mol	Chain	Res	Type	Atoms
5	Aa	503	A1A0P	C11-O10-P14-O16
5	Ab	502	A1A0P	C8-O9-P14-O16
5	Ab	503	A1A0P	C11-O10-P14-O16
5	Ac	502	A1A0P	C8-O9-P14-O16
5	Ac	503	A1A0P	C11-O10-P14-O16
5	Ac	504	A1A0P	C8-O9-P14-O15
5	Ad	502	A1A0P	C8-O9-P14-O16
5	Ad	503	A1A0P	C11-O10-P14-O16
5	Ae	502	A1A0P	C8-O9-P14-O16
5	Ae	503	A1A0P	C11-O10-P14-O16
5	Ae	504	A1A0P	C8-O9-P14-O15
5	Af	502	A1A0P	C8-O9-P14-O16
5	Af	503	A1A0P	C11-O10-P14-O16
5	Af	504	A1A0P	C8-O9-P14-O15
5	Ag	502	A1A0P	C8-O9-P14-O16
5	Ag	503	A1A0P	C11-O10-P14-O16
5	Ag	504	A1A0P	C8-O9-P14-O15
5	Ah	502	A1A0P	C8-O9-P14-O16
5	Ah	503	A1A0P	C11-O10-P14-O16
5	Ah	504	A1A0P	C8-O9-P14-O15
5	Ai	502	A1A0P	C8-O9-P14-O16
5	Ai	503	A1A0P	C11-O10-P14-O16
5	Ai	504	A1A0P	C8-O9-P14-O15
5	Ba	304	A1A0P	C11-O10-P14-O15
5	Ba	305	A1A0P	C11-O10-P14-O16
5	Ba	306	A1A0P	C11-O10-P14-O15
5	Ba	307	A1A0P	C8-O9-P14-O16
5	Ba	309	A1A0P	C8-O9-P14-O16
5	Ba	310	A1A0P	C8-O9-P14-O15
5	Bb	303	A1A0P	C11-O10-P14-O15
5	Bb	304	A1A0P	C11-O10-P14-O16
5	Bb	305	A1A0P	C11-O10-P14-O15
5	Bb	306	A1A0P	C8-O9-P14-O16
5	Bb	307	A1A0P	C8-O9-P14-O16
5	Bb	308	A1A0P	C8-O9-P14-O15
5	Bc	303	A1A0P	C11-O10-P14-O15
5	Bc	304	A1A0P	C11-O10-P14-O16
5	Bc	305	A1A0P	C11-O10-P14-O15
5	Bc	306	A1A0P	C8-O9-P14-O16
5	Bc	308	A1A0P	C8-O9-P14-O16
5	Bd	304	A1A0P	C11-O10-P14-O15
5	Bd	305	A1A0P	C11-O10-P14-O16

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Mol	Chain	Res	Type	Atoms
5	Bd	306	A1A0P	C11-O10-P14-O15
5	Bd	307	A1A0P	C8-O9-P14-O16
5	Bd	309	A1A0P	C8-O9-P14-O16
5	Be	303	A1A0P	C11-O10-P14-O15
5	Be	304	A1A0P	C11-O10-P14-O16
5	Be	305	A1A0P	C11-O10-P14-O15
5	Be	306	A1A0P	C8-O9-P14-O16
5	Be	308	A1A0P	C8-O9-P14-O16
5	Be	309	A1A0P	C8-O9-P14-O15
5	Bf	303	A1A0P	C11-O10-P14-O15
5	Bf	304	A1A0P	C11-O10-P14-O16
5	Bf	305	A1A0P	C11-O10-P14-O15
5	Bf	306	A1A0P	C8-O9-P14-O16
5	Bf	307	A1A0P	C8-O9-P14-O16
5	Bg	304	A1A0P	C11-O10-P14-O15
5	Bg	305	A1A0P	C11-O10-P14-O16
5	Bg	306	A1A0P	C11-O10-P14-O15
5	Bg	307	A1A0P	C8-O9-P14-O16
5	Bg	309	A1A0P	C8-O9-P14-O16
5	Bh	303	A1A0P	C11-O10-P14-O15
5	Bh	304	A1A0P	C11-O10-P14-O16
5	Bh	305	A1A0P	C11-O10-P14-O15
5	Bh	306	A1A0P	C8-O9-P14-O16
5	Bh	307	A1A0P	C8-O9-P14-O16
5	Bi	303	A1A0P	C11-O10-P14-O15
5	Bi	304	A1A0P	C11-O10-P14-O16
5	Bi	305	A1A0P	C11-O10-P14-O15
5	Bi	306	A1A0P	C8-O9-P14-O16
5	Bi	308	A1A0P	C8-O9-P14-O16
5	Ca	303	A1A0P	C11-O10-P14-O9
5	Ca	304	A1A0P	C8-O9-P14-O10
5	Ca	305	A1A0P	C8-O9-P14-O10
5	Ca	306	A1A0P	C11-O10-P14-O15
5	Ca	307	A1A0P	C8-O9-P14-O16
5	Cb	303	A1A0P	C11-O10-P14-O9
5	Cb	304	A1A0P	C8-O9-P14-O10
5	Cb	305	A1A0P	C8-O9-P14-O10
5	Cb	306	A1A0P	C11-O10-P14-O15
5	Cb	307	A1A0P	C8-O9-P14-O16
5	Cc	303	A1A0P	C11-O10-P14-O9
5	Cc	304	A1A0P	C8-O9-P14-O10
5	Cc	305	A1A0P	C8-O9-P14-O10

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Mol	Chain	Res	Type	Atoms
5	Cc	306	A1A0P	C11-O10-P14-O15
5	Cc	307	A1A0P	C8-O9-P14-O16
5	Cd	303	A1A0P	C11-O10-P14-O9
5	Cd	304	A1A0P	C8-O9-P14-O10
5	Cd	305	A1A0P	C8-O9-P14-O10
5	Cd	306	A1A0P	C11-O10-P14-O15
5	Cd	307	A1A0P	C8-O9-P14-O16
5	Ce	303	A1A0P	C11-O10-P14-O9
5	Ce	304	A1A0P	C8-O9-P14-O10
5	Ce	305	A1A0P	C8-O9-P14-O10
5	Ce	306	A1A0P	C11-O10-P14-O15
5	Ce	307	A1A0P	C8-O9-P14-O16
5	Cf	303	A1A0P	C11-O10-P14-O9
5	Cf	304	A1A0P	C8-O9-P14-O10
5	Cf	305	A1A0P	C8-O9-P14-O10
5	Cf	306	A1A0P	C11-O10-P14-O15
5	Cf	307	A1A0P	C8-O9-P14-O16
5	Cf	308	A1A0P	C11-O10-P14-O16
5	Cg	303	A1A0P	C11-O10-P14-O9
5	Cg	304	A1A0P	C8-O9-P14-O10
5	Cg	305	A1A0P	C8-O9-P14-O10
5	Cg	306	A1A0P	C11-O10-P14-O15
5	Cg	307	A1A0P	C8-O9-P14-O16
5	Ch	303	A1A0P	C11-O10-P14-O9
5	Ch	304	A1A0P	C8-O9-P14-O10
5	Ch	305	A1A0P	C8-O9-P14-O10
5	Ch	306	A1A0P	C11-O10-P14-O15
5	Ch	307	A1A0P	C8-O9-P14-O16
5	Ch	308	A1A0P	C11-O10-P14-O16
5	Ci	303	A1A0P	C11-O10-P14-O9
5	Ci	304	A1A0P	C8-O9-P14-O10
5	Ci	305	A1A0P	C8-O9-P14-O10
5	Ci	306	A1A0P	C11-O10-P14-O15
5	Ci	307	A1A0P	C8-O9-P14-O16
5	Bb	309	A1A0P	C36-C37-C38-C39
5	Bd	308	A1A0P	C20-C21-C22-C23
5	Bf	308	A1A0P	C36-C37-C38-C39
5	Bh	308	A1A0P	C36-C37-C38-C39
5	Bi	307	A1A0P	C20-C21-C22-C23
5	Ba	308	A1A0P	C20-C21-C22-C23
5	Be	307	A1A0P	C20-C21-C22-C23
5	Bg	308	A1A0P	C20-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
5	Ca	301	A1A0P	C40-C41-C42-C43
5	Cc	301	A1A0P	C40-C41-C42-C43
5	Cd	301	A1A0P	C40-C41-C42-C43
5	Ce	301	A1A0P	C40-C41-C42-C43
5	Cf	301	A1A0P	C40-C41-C42-C43
5	Cg	301	A1A0P	C40-C41-C42-C43
5	Ch	301	A1A0P	C40-C41-C42-C43
5	Ci	301	A1A0P	C40-C41-C42-C43
5	Ad	503	A1A0P	C17-C19-C20-C21
5	Cb	301	A1A0P	C40-C41-C42-C43
5	Ab	503	A1A0P	C17-C19-C20-C21
5	Ah	503	A1A0P	C17-C19-C20-C21
5	Ba	303	A1A0P	C2-C1-O6-C17
5	Bb	302	A1A0P	C2-C1-O6-C17
5	Bc	302	A1A0P	C2-C1-O6-C17
5	Bd	303	A1A0P	C2-C1-O6-C17
5	Be	302	A1A0P	C2-C1-O6-C17
5	Bf	302	A1A0P	C2-C1-O6-C17
5	Bg	303	A1A0P	C2-C1-O6-C17
5	Bh	302	A1A0P	C2-C1-O6-C17
5	Bi	302	A1A0P	C2-C1-O6-C17
5	Bd	309	A1A0P	C24-C25-C26-C27
5	Ba	306	A1A0P	C23-C24-C25-C26
5	Ba	309	A1A0P	C24-C25-C26-C27
5	Bb	307	A1A0P	C24-C25-C26-C27
5	Bc	305	A1A0P	C23-C24-C25-C26
5	Bc	308	A1A0P	C24-C25-C26-C27
5	Be	308	A1A0P	C24-C25-C26-C27
5	Bf	307	A1A0P	C24-C25-C26-C27
5	Bg	309	A1A0P	C24-C25-C26-C27
5	Bh	307	A1A0P	C24-C25-C26-C27
5	Bi	308	A1A0P	C24-C25-C26-C27
5	Bb	305	A1A0P	C23-C24-C25-C26
5	Bg	306	A1A0P	C23-C24-C25-C26
5	Bf	308	A1A0P	O6-C17-C19-C20
5	Bi	307	A1A0P	O6-C17-C19-C20
5	Ac	503	A1A0P	C17-C19-C20-C21
5	Ae	503	A1A0P	C17-C19-C20-C21
5	Ag	503	A1A0P	C17-C19-C20-C21
5	Ai	503	A1A0P	C17-C19-C20-C21
5	Bh	305	A1A0P	C23-C24-C25-C26
5	Bi	305	A1A0P	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
5	Bb	305	A1A0P	C29-C30-C31-C32
5	Be	305	A1A0P	C23-C24-C25-C26
5	Bf	305	A1A0P	C23-C24-C25-C26
5	Ba	308	A1A0P	O6-C17-C19-C20
5	Bb	309	A1A0P	O6-C17-C19-C20
5	Bc	307	A1A0P	O6-C17-C19-C20
5	Bd	308	A1A0P	O6-C17-C19-C20
5	Be	307	A1A0P	O6-C17-C19-C20
5	Bg	308	A1A0P	O6-C17-C19-C20
5	Bh	308	A1A0P	O6-C17-C19-C20
5	Bc	305	A1A0P	C29-C30-C31-C32
5	Be	305	A1A0P	C29-C30-C31-C32
5	Bh	305	A1A0P	C29-C30-C31-C32
5	Bi	305	A1A0P	C29-C30-C31-C32
5	Aa	503	A1A0P	C17-C19-C20-C21
5	Af	503	A1A0P	C17-C19-C20-C21
5	Bd	306	A1A0P	C23-C24-C25-C26
5	Bd	306	A1A0P	C29-C30-C31-C32
5	Bf	305	A1A0P	C29-C30-C31-C32
5	Ba	306	A1A0P	C29-C30-C31-C32
5	Bg	306	A1A0P	C29-C30-C31-C32
5	Bi	306	A1A0P	C34-C35-C36-C37
5	Cf	306	A1A0P	C19-C20-C21-C22
5	Ca	306	A1A0P	C19-C20-C21-C22
5	Cg	306	A1A0P	C19-C20-C21-C22
5	Ba	307	A1A0P	C34-C35-C36-C37
5	Bf	306	A1A0P	C34-C35-C36-C37
5	Bh	306	A1A0P	C34-C35-C36-C37
5	Ce	306	A1A0P	C19-C20-C21-C22
5	Ci	306	A1A0P	C19-C20-C21-C22
5	Bc	306	A1A0P	C34-C35-C36-C37
5	Be	306	A1A0P	C34-C35-C36-C37
5	Cc	306	A1A0P	C19-C20-C21-C22
5	Cd	306	A1A0P	C19-C20-C21-C22
5	Ch	306	A1A0P	C19-C20-C21-C22
5	Bb	306	A1A0P	C17-C19-C20-C21
5	Bf	306	A1A0P	C17-C19-C20-C21
5	Bb	306	A1A0P	C34-C35-C36-C37
5	Bd	307	A1A0P	C34-C35-C36-C37
5	Cb	306	A1A0P	C19-C20-C21-C22
5	Ca	306	A1A0P	O6-C1-C2-O3
5	Cb	306	A1A0P	O6-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Cc	306	A1A0P	O6-C1-C2-O3
5	Cd	306	A1A0P	O6-C1-C2-O3
5	Ce	306	A1A0P	O6-C1-C2-O3
5	Cf	306	A1A0P	O6-C1-C2-O3
5	Cg	306	A1A0P	O6-C1-C2-O3
5	Ch	306	A1A0P	O6-C1-C2-O3
5	Ci	306	A1A0P	O6-C1-C2-O3
5	Bg	307	A1A0P	C34-C35-C36-C37
5	Bh	306	A1A0P	C17-C19-C20-C21
5	Ba	307	A1A0P	C17-C19-C20-C21
5	Be	306	A1A0P	C17-C19-C20-C21
5	Bg	307	A1A0P	C17-C19-C20-C21
5	Ac	502	A1A0P	C36-C37-C38-C39
5	Ch	303	A1A0P	C21-C22-C23-C24
5	Ab	502	A1A0P	C36-C37-C38-C39
5	Cc	303	A1A0P	C21-C22-C23-C24
5	Ae	502	A1A0P	C36-C37-C38-C39
5	Af	502	A1A0P	C36-C37-C38-C39
5	Ag	502	A1A0P	C36-C37-C38-C39
5	Ai	502	A1A0P	C36-C37-C38-C39
5	Cb	303	A1A0P	C21-C22-C23-C24
5	Cd	303	A1A0P	C21-C22-C23-C24
5	Ci	303	A1A0P	C21-C22-C23-C24
5	Bc	306	A1A0P	C17-C19-C20-C21
5	Ad	502	A1A0P	C36-C37-C38-C39
5	Ce	303	A1A0P	C21-C22-C23-C24
5	Aa	502	A1A0P	C36-C37-C38-C39
5	Ah	502	A1A0P	C36-C37-C38-C39
5	Ca	307	A1A0P	C8-C1-C2-O3
5	Cb	307	A1A0P	C8-C1-C2-O3
5	Cc	307	A1A0P	C8-C1-C2-O3
5	Cd	307	A1A0P	C8-C1-C2-O3
5	Ce	307	A1A0P	C8-C1-C2-O3
5	Cf	307	A1A0P	C8-C1-C2-O3
5	Cg	307	A1A0P	C8-C1-C2-O3
5	Ch	307	A1A0P	C8-C1-C2-O3
5	Ci	307	A1A0P	C8-C1-C2-O3
5	Cg	303	A1A0P	C21-C22-C23-C24
5	Bd	307	A1A0P	C17-C19-C20-C21
5	Bi	306	A1A0P	C17-C19-C20-C21
5	Ad	503	A1A0P	C44-C45-C46-C47
5	Ah	503	A1A0P	C44-C45-C46-C47

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Mol	Chain	Res	Type	Atoms
5	Ca	303	A1A0P	C21-C22-C23-C24
5	Cf	303	A1A0P	C21-C22-C23-C24
5	Ab	503	A1A0P	C44-C45-C46-C47
5	Ae	503	A1A0P	C44-C45-C46-C47
5	Ai	503	A1A0P	C44-C45-C46-C47
5	Ac	503	A1A0P	C44-C45-C46-C47
5	Af	503	A1A0P	C44-C45-C46-C47
5	Ag	503	A1A0P	C44-C45-C46-C47
5	Aa	503	A1A0P	C44-C45-C46-C47
5	Bf	303	A1A0P	C30-C31-C32-C33
5	Bh	303	A1A0P	C30-C31-C32-C33
5	Aa	503	A1A0P	C1-C8-O9-P14
5	Ad	502	A1A0P	C45-C46-C47-C48
5	Ae	502	A1A0P	C45-C46-C47-C48
5	Ai	502	A1A0P	C45-C46-C47-C48
5	Bb	303	A1A0P	C30-C31-C32-C33
5	Aa	502	A1A0P	C45-C46-C47-C48
5	Ab	502	A1A0P	C45-C46-C47-C48
5	Ac	502	A1A0P	C45-C46-C47-C48
5	Af	502	A1A0P	C45-C46-C47-C48
5	Ag	502	A1A0P	C45-C46-C47-C48
5	Ah	502	A1A0P	C45-C46-C47-C48
5	Ab	503	A1A0P	C35-C36-C37-C38
5	Ad	503	A1A0P	C35-C36-C37-C38
5	Bc	303	A1A0P	C30-C31-C32-C33
5	Bd	304	A1A0P	C30-C31-C32-C33
5	Be	303	A1A0P	C30-C31-C32-C33
5	Bg	304	A1A0P	C30-C31-C32-C33
5	Bi	303	A1A0P	C30-C31-C32-C33
5	Aa	503	A1A0P	C35-C36-C37-C38
5	Ba	304	A1A0P	C30-C31-C32-C33
5	Cg	304	A1A0P	C30-C31-C32-C33
5	Ag	503	A1A0P	C35-C36-C37-C38
5	Ah	503	A1A0P	C35-C36-C37-C38
5	Af	503	A1A0P	C35-C36-C37-C38
5	Ac	503	A1A0P	C35-C36-C37-C38
5	Ae	503	A1A0P	C35-C36-C37-C38
5	Ai	503	A1A0P	C35-C36-C37-C38
5	Cb	304	A1A0P	C44-C45-C46-C47
5	Cc	304	A1A0P	C44-C45-C46-C47
5	Cd	304	A1A0P	C44-C45-C46-C47
5	Ce	304	A1A0P	C44-C45-C46-C47

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Mol	Chain	Res	Type	Atoms
5	Cf	304	A1A0P	C44-C45-C46-C47
5	Ch	304	A1A0P	C44-C45-C46-C47
5	Ci	304	A1A0P	C44-C45-C46-C47
5	Ca	304	A1A0P	C30-C31-C32-C33
5	Ca	304	A1A0P	C44-C45-C46-C47
5	Cg	304	A1A0P	C44-C45-C46-C47
5	Cb	304	A1A0P	C30-C31-C32-C33
5	Cf	304	A1A0P	C30-C31-C32-C33
5	Cc	304	A1A0P	C30-C31-C32-C33
5	Cd	304	A1A0P	C30-C31-C32-C33
5	Ce	304	A1A0P	C30-C31-C32-C33
5	Ci	304	A1A0P	C30-C31-C32-C33
5	Cb	308	A1A0P	C24-C25-C26-C27
5	Cc	308	A1A0P	C24-C25-C26-C27
5	Cd	308	A1A0P	C24-C25-C26-C27
5	Ce	308	A1A0P	C24-C25-C26-C27
5	Cf	308	A1A0P	C24-C25-C26-C27
5	Ci	308	A1A0P	C24-C25-C26-C27
5	Ch	308	A1A0P	C24-C25-C26-C27
5	Ch	304	A1A0P	C30-C31-C32-C33
5	Cg	308	A1A0P	C24-C25-C26-C27
5	Ca	308	A1A0P	C24-C25-C26-C27
5	Ba	305	A1A0P	C38-C39-C40-C41
5	Ba	308	A1A0P	C40-C41-C42-C43
5	Bb	304	A1A0P	C38-C39-C40-C41
5	Bb	309	A1A0P	C40-C41-C42-C43
5	Bc	304	A1A0P	C38-C39-C40-C41
5	Bc	307	A1A0P	C40-C41-C42-C43
5	Bd	305	A1A0P	C38-C39-C40-C41
5	Bd	308	A1A0P	C40-C41-C42-C43
5	Be	304	A1A0P	C38-C39-C40-C41
5	Be	307	A1A0P	C40-C41-C42-C43
5	Be	308	A1A0P	C40-C41-C42-C43
5	Bf	304	A1A0P	C38-C39-C40-C41
5	Bf	308	A1A0P	C40-C41-C42-C43
5	Bg	305	A1A0P	C38-C39-C40-C41
5	Bg	308	A1A0P	C40-C41-C42-C43
5	Bg	309	A1A0P	C40-C41-C42-C43
5	Bh	304	A1A0P	C38-C39-C40-C41
5	Bh	308	A1A0P	C40-C41-C42-C43
5	Bi	304	A1A0P	C38-C39-C40-C41
5	Bi	307	A1A0P	C40-C41-C42-C43

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Mol	Chain	Res	Type	Atoms
5	Bg	305	A1A0P	C45-C46-C47-C48
5	Bb	304	A1A0P	C45-C46-C47-C48
5	Bc	304	A1A0P	C45-C46-C47-C48
5	Bf	304	A1A0P	C45-C46-C47-C48
5	Bi	304	A1A0P	C45-C46-C47-C48
5	Bd	305	A1A0P	C45-C46-C47-C48
5	Be	304	A1A0P	C45-C46-C47-C48
5	Bh	304	A1A0P	C45-C46-C47-C48
5	Ba	305	A1A0P	C45-C46-C47-C48
5	Bb	302	A1A0P	C34-C35-C36-C37
5	Bd	303	A1A0P	C34-C35-C36-C37
5	Ba	309	A1A0P	C40-C41-C42-C43
5	Bb	307	A1A0P	C40-C41-C42-C43
5	Bc	308	A1A0P	C40-C41-C42-C43
5	Bd	309	A1A0P	C40-C41-C42-C43
5	Bf	307	A1A0P	C40-C41-C42-C43
5	Bh	307	A1A0P	C40-C41-C42-C43
5	Bi	308	A1A0P	C40-C41-C42-C43
5	Bf	302	A1A0P	C34-C35-C36-C37
5	Bh	302	A1A0P	C34-C35-C36-C37
5	Ab	503	A1A0P	C1-C8-O9-P14
5	Ac	503	A1A0P	C1-C8-O9-P14
5	Ad	503	A1A0P	C1-C8-O9-P14
5	Ae	503	A1A0P	C1-C8-O9-P14
5	Af	503	A1A0P	C1-C8-O9-P14
5	Ag	503	A1A0P	C1-C8-O9-P14
5	Ah	503	A1A0P	C1-C8-O9-P14
5	Ai	503	A1A0P	C1-C8-O9-P14
5	Bc	302	A1A0P	C34-C35-C36-C37
5	Bg	303	A1A0P	C34-C35-C36-C37
5	Bi	302	A1A0P	C34-C35-C36-C37
5	Ba	303	A1A0P	C34-C35-C36-C37
5	Be	302	A1A0P	C34-C35-C36-C37
5	Ca	304	A1A0P	C8-C1-C2-O3
5	Ca	305	A1A0P	C40-C41-C42-C43
5	Cb	304	A1A0P	C8-C1-C2-O3
5	Cb	305	A1A0P	C40-C41-C42-C43
5	Cc	304	A1A0P	C8-C1-C2-O3
5	Cc	305	A1A0P	C40-C41-C42-C43
5	Cd	304	A1A0P	C8-C1-C2-O3
5	Cd	305	A1A0P	C40-C41-C42-C43
5	Ce	305	A1A0P	C40-C41-C42-C43

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Mol	Chain	Res	Type	Atoms
5	Cf	304	A1A0P	C8-C1-C2-O3
5	Cf	305	A1A0P	C40-C41-C42-C43
5	Cg	304	A1A0P	C8-C1-C2-O3
5	Cg	305	A1A0P	C40-C41-C42-C43
5	Ch	304	A1A0P	C8-C1-C2-O3
5	Ch	305	A1A0P	C40-C41-C42-C43
5	Ci	304	A1A0P	C8-C1-C2-O3
5	Ci	305	A1A0P	C40-C41-C42-C43
5	Bd	302	A1A0P	C29-C30-C31-C32
5	Ba	306	A1A0P	C2-C1-O6-C17
5	Ba	308	A1A0P	C2-C1-O6-C17
5	Bb	305	A1A0P	C2-C1-O6-C17
5	Bb	309	A1A0P	C2-C1-O6-C17
5	Bc	305	A1A0P	C2-C1-O6-C17
5	Bc	307	A1A0P	C2-C1-O6-C17
5	Bd	306	A1A0P	C2-C1-O6-C17
5	Bd	308	A1A0P	C2-C1-O6-C17
5	Be	305	A1A0P	C2-C1-O6-C17
5	Be	307	A1A0P	C2-C1-O6-C17
5	Bf	305	A1A0P	C2-C1-O6-C17
5	Bf	308	A1A0P	C2-C1-O6-C17
5	Bg	306	A1A0P	C2-C1-O6-C17
5	Bg	308	A1A0P	C2-C1-O6-C17
5	Bh	305	A1A0P	C2-C1-O6-C17
5	Bh	308	A1A0P	C2-C1-O6-C17
5	Bi	305	A1A0P	C2-C1-O6-C17
5	Bi	307	A1A0P	C2-C1-O6-C17
5	Bc	301	A1A0P	C29-C30-C31-C32
5	Ca	303	A1A0P	C40-C41-C42-C43
5	Cb	303	A1A0P	C40-C41-C42-C43
5	Cc	303	A1A0P	C40-C41-C42-C43
5	Cd	303	A1A0P	C40-C41-C42-C43
5	Ce	303	A1A0P	C40-C41-C42-C43
5	Cf	303	A1A0P	C40-C41-C42-C43
5	Cg	303	A1A0P	C40-C41-C42-C43
5	Ch	303	A1A0P	C40-C41-C42-C43
5	Ci	303	A1A0P	C40-C41-C42-C43
5	Be	301	A1A0P	C29-C30-C31-C32
5	Ba	302	A1A0P	C29-C30-C31-C32
5	Bb	301	A1A0P	C29-C30-C31-C32
5	Bf	301	A1A0P	C29-C30-C31-C32
5	Bg	302	A1A0P	C29-C30-C31-C32

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Mol	Chain	Res	Type	Atoms
5	Bh	301	A1A0P	C29-C30-C31-C32
5	Bi	301	A1A0P	C29-C30-C31-C32
5	Ca	305	A1A0P	C26-C27-C28-C29
5	Cb	305	A1A0P	C26-C27-C28-C29
5	Cg	305	A1A0P	C26-C27-C28-C29
5	Ac	503	A1A0P	C21-C22-C23-C24
5	Ai	503	A1A0P	C21-C22-C23-C24
5	Cd	305	A1A0P	C26-C27-C28-C29
5	Ca	307	A1A0P	C40-C41-C42-C43
5	Cb	307	A1A0P	C40-C41-C42-C43
5	Cc	307	A1A0P	C40-C41-C42-C43
5	Cd	307	A1A0P	C40-C41-C42-C43
5	Ce	307	A1A0P	C40-C41-C42-C43
5	Cf	307	A1A0P	C40-C41-C42-C43
5	Cg	307	A1A0P	C40-C41-C42-C43
5	Ch	307	A1A0P	C40-C41-C42-C43
5	Ci	307	A1A0P	C40-C41-C42-C43
5	Aa	503	A1A0P	C21-C22-C23-C24
5	Ag	503	A1A0P	C21-C22-C23-C24
5	Cc	305	A1A0P	C26-C27-C28-C29
5	Ce	305	A1A0P	C26-C27-C28-C29
5	Ab	503	A1A0P	C21-C22-C23-C24
5	Ad	503	A1A0P	C21-C22-C23-C24
5	Ae	503	A1A0P	C21-C22-C23-C24
5	Af	503	A1A0P	C21-C22-C23-C24
5	Ah	503	A1A0P	C21-C22-C23-C24
5	Ci	305	A1A0P	C26-C27-C28-C29
5	Cf	305	A1A0P	C26-C27-C28-C29
5	Ch	305	A1A0P	C26-C27-C28-C29
5	Be	306	A1A0P	C29-C30-C31-C32
5	Bg	307	A1A0P	C29-C30-C31-C32
5	Aa	503	A1A0P	C38-C39-C40-C41
5	Ac	503	A1A0P	C38-C39-C40-C41
5	Af	503	A1A0P	C38-C39-C40-C41
5	Ca	301	A1A0P	O6-C1-C2-O3
5	Cb	301	A1A0P	O6-C1-C2-O3
5	Cc	301	A1A0P	O6-C1-C2-O3
5	Cd	301	A1A0P	O6-C1-C2-O3
5	Ce	301	A1A0P	O6-C1-C2-O3
5	Cf	301	A1A0P	O6-C1-C2-O3
5	Cg	301	A1A0P	O6-C1-C2-O3
5	Ch	301	A1A0P	O6-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Ci	301	A1A0P	O6-C1-C2-O3
5	Bi	306	A1A0P	C29-C30-C31-C32
5	Ba	307	A1A0P	C29-C30-C31-C32
5	Cf	303	A1A0P	C30-C31-C32-C33
5	Bh	308	A1A0P	C24-C25-C26-C27
5	Ca	303	A1A0P	C30-C31-C32-C33
5	Cg	303	A1A0P	C30-C31-C32-C33
5	Bd	307	A1A0P	C29-C30-C31-C32
5	Cd	303	A1A0P	C30-C31-C32-C33
5	Ce	303	A1A0P	C30-C31-C32-C33
5	Bb	306	A1A0P	C36-C37-C38-C39
5	Bc	306	A1A0P	C29-C30-C31-C32
5	Bf	306	A1A0P	C29-C30-C31-C32
5	Bf	308	A1A0P	C24-C25-C26-C27
5	Bi	307	A1A0P	C24-C25-C26-C27
5	Cb	303	A1A0P	C30-C31-C32-C33
5	Cc	303	A1A0P	C30-C31-C32-C33
5	Ch	303	A1A0P	C30-C31-C32-C33
5	Ci	303	A1A0P	C30-C31-C32-C33
5	Bb	306	A1A0P	C29-C30-C31-C32
5	Bb	309	A1A0P	C24-C25-C26-C27
5	Be	307	A1A0P	C24-C25-C26-C27
5	Bf	306	A1A0P	C36-C37-C38-C39
5	Bh	306	A1A0P	C29-C30-C31-C32
5	Ba	308	A1A0P	C24-C25-C26-C27
5	Bc	307	A1A0P	C24-C25-C26-C27
5	Bd	307	A1A0P	C36-C37-C38-C39
5	Be	306	A1A0P	C36-C37-C38-C39
5	Bg	307	A1A0P	C36-C37-C38-C39
5	Bh	306	A1A0P	C36-C37-C38-C39
5	Bc	306	A1A0P	C36-C37-C38-C39
5	Bd	308	A1A0P	C24-C25-C26-C27
5	Bg	308	A1A0P	C24-C25-C26-C27
5	Bi	306	A1A0P	C36-C37-C38-C39
5	Ab	503	A1A0P	C38-C39-C40-C41
5	Ad	503	A1A0P	C38-C39-C40-C41
5	Ae	503	A1A0P	C38-C39-C40-C41
5	Ag	503	A1A0P	C38-C39-C40-C41
5	Ah	503	A1A0P	C38-C39-C40-C41
5	Ai	503	A1A0P	C38-C39-C40-C41
5	Ba	307	A1A0P	C36-C37-C38-C39
5	Ae	504	A1A0P	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
5	Ag	504	A1A0P	C27-C28-C29-C30
5	Ac	504	A1A0P	C27-C28-C29-C30
5	Af	504	A1A0P	C27-C28-C29-C30
5	Bb	308	A1A0P	C27-C28-C29-C30
5	Ai	504	A1A0P	C27-C28-C29-C30
5	Ba	310	A1A0P	C27-C28-C29-C30
5	Bc	308	A1A0P	C23-C24-C25-C26
5	Be	309	A1A0P	C27-C28-C29-C30
5	Bd	309	A1A0P	C23-C24-C25-C26
5	Be	308	A1A0P	C23-C24-C25-C26
5	Bh	307	A1A0P	C23-C24-C25-C26
5	Ah	504	A1A0P	C27-C28-C29-C30
5	Bf	307	A1A0P	C23-C24-C25-C26
5	Bi	308	A1A0P	C23-C24-C25-C26
5	Ce	304	A1A0P	C8-C1-C2-O3
5	Ba	309	A1A0P	C23-C24-C25-C26
5	Bb	307	A1A0P	C23-C24-C25-C26
5	Bg	309	A1A0P	C23-C24-C25-C26
5	Ch	308	A1A0P	C34-C35-C36-C37
5	Cd	308	A1A0P	C34-C35-C36-C37
5	Ci	308	A1A0P	C34-C35-C36-C37
5	Ca	308	A1A0P	C34-C35-C36-C37
5	Cc	308	A1A0P	C34-C35-C36-C37
5	Ce	308	A1A0P	C34-C35-C36-C37
5	Cf	308	A1A0P	C34-C35-C36-C37
5	Cb	308	A1A0P	C34-C35-C36-C37
5	Ce	308	A1A0P	C36-C37-C38-C39
5	Cg	308	A1A0P	C34-C35-C36-C37
5	Ca	306	A1A0P	O6-C1-C8-O9
5	Cb	306	A1A0P	O6-C1-C8-O9
5	Cc	306	A1A0P	O6-C1-C8-O9
5	Cd	306	A1A0P	O6-C1-C8-O9
5	Ce	306	A1A0P	O6-C1-C8-O9
5	Cf	306	A1A0P	O6-C1-C8-O9
5	Cg	306	A1A0P	O6-C1-C8-O9
5	Ch	306	A1A0P	O6-C1-C8-O9
5	Ci	306	A1A0P	O6-C1-C8-O9
5	Cb	308	A1A0P	C36-C37-C38-C39
5	Ci	308	A1A0P	C36-C37-C38-C39
5	Cd	308	A1A0P	C36-C37-C38-C39
5	Ch	308	A1A0P	C36-C37-C38-C39
5	Cb	302	A1A0P	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
5	Cd	302	A1A0P	C27-C28-C29-C30
5	Cc	308	A1A0P	C36-C37-C38-C39
5	Cf	308	A1A0P	C36-C37-C38-C39
5	Ch	302	A1A0P	C27-C28-C29-C30
5	Ca	308	A1A0P	C36-C37-C38-C39
5	Cf	302	A1A0P	C27-C28-C29-C30
5	Cg	308	A1A0P	C36-C37-C38-C39
5	Af	502	A1A0P	C40-C41-C42-C43
5	Ab	502	A1A0P	C30-C31-C32-C33
5	Ad	502	A1A0P	C30-C31-C32-C33
5	Ah	502	A1A0P	C30-C31-C32-C33
5	Cc	302	A1A0P	C27-C28-C29-C30
5	Cg	302	A1A0P	C27-C28-C29-C30
5	Ca	302	A1A0P	C27-C28-C29-C30
5	Aa	502	A1A0P	C30-C31-C32-C33
5	Ac	502	A1A0P	C30-C31-C32-C33
5	Af	502	A1A0P	C30-C31-C32-C33
5	Ag	502	A1A0P	C30-C31-C32-C33
5	Ai	502	A1A0P	C30-C31-C32-C33
5	Ae	502	A1A0P	C30-C31-C32-C33
5	Ce	302	A1A0P	C27-C28-C29-C30
5	Ci	302	A1A0P	C27-C28-C29-C30
5	Bc	303	A1A0P	C35-C36-C37-C38
5	Bd	304	A1A0P	C35-C36-C37-C38
5	Bg	304	A1A0P	C35-C36-C37-C38
5	Bb	303	A1A0P	C35-C36-C37-C38
5	Ba	304	A1A0P	C35-C36-C37-C38
5	Bf	303	A1A0P	C35-C36-C37-C38
5	Bh	303	A1A0P	C35-C36-C37-C38
5	Bi	303	A1A0P	C35-C36-C37-C38
5	Aa	502	A1A0P	C40-C41-C42-C43
5	Ab	502	A1A0P	C40-C41-C42-C43
5	Ac	502	A1A0P	C40-C41-C42-C43
5	Ad	502	A1A0P	C40-C41-C42-C43
5	Ae	502	A1A0P	C40-C41-C42-C43
5	Ag	502	A1A0P	C40-C41-C42-C43
5	Ah	502	A1A0P	C40-C41-C42-C43
5	Ai	502	A1A0P	C40-C41-C42-C43
5	Ba	304	A1A0P	C40-C41-C42-C43
5	Bb	303	A1A0P	C40-C41-C42-C43
5	Bc	303	A1A0P	C40-C41-C42-C43
5	Bd	304	A1A0P	C40-C41-C42-C43

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Mol	Chain	Res	Type	Atoms
5	Be	303	A1A0P	C40-C41-C42-C43
5	Bf	303	A1A0P	C40-C41-C42-C43
5	Bg	304	A1A0P	C40-C41-C42-C43
5	Bh	303	A1A0P	C40-C41-C42-C43
5	Bi	303	A1A0P	C40-C41-C42-C43
5	Be	303	A1A0P	C35-C36-C37-C38
5	Ci	307	A1A0P	C42-C43-C44-C45
5	Cc	307	A1A0P	C42-C43-C44-C45
5	Cd	307	A1A0P	C42-C43-C44-C45
5	Ca	307	A1A0P	C42-C43-C44-C45
5	Cb	307	A1A0P	C42-C43-C44-C45
5	Ce	307	A1A0P	C42-C43-C44-C45
5	Ch	307	A1A0P	C42-C43-C44-C45
5	Cf	307	A1A0P	C42-C43-C44-C45
5	Cg	307	A1A0P	C42-C43-C44-C45
5	Cb	301	A1A0P	C30-C31-C32-C33
5	Bd	305	A1A0P	C28-C29-C30-C31
5	Bf	304	A1A0P	C28-C29-C30-C31
5	Cc	301	A1A0P	C30-C31-C32-C33
5	Cd	301	A1A0P	C30-C31-C32-C33
5	Ce	301	A1A0P	C30-C31-C32-C33
5	Cf	301	A1A0P	C30-C31-C32-C33
5	Ch	301	A1A0P	C30-C31-C32-C33
5	Ci	301	A1A0P	C30-C31-C32-C33
5	Bd	303	A1A0P	C40-C41-C42-C43
5	Cg	301	A1A0P	C30-C31-C32-C33
5	Ca	301	A1A0P	C30-C31-C32-C33
5	Bh	304	A1A0P	C28-C29-C30-C31
5	Bi	304	A1A0P	C28-C29-C30-C31
5	Ba	306	A1A0P	O6-C17-C19-C20
5	Bb	305	A1A0P	O6-C17-C19-C20
5	Bc	305	A1A0P	O6-C17-C19-C20
5	Bd	306	A1A0P	O6-C17-C19-C20
5	Bf	305	A1A0P	O6-C17-C19-C20
5	Bg	306	A1A0P	O6-C17-C19-C20
5	Bh	305	A1A0P	O6-C17-C19-C20
5	Bi	305	A1A0P	O6-C17-C19-C20
5	Be	304	A1A0P	C28-C29-C30-C31
5	Bb	304	A1A0P	C28-C29-C30-C31
5	Bc	304	A1A0P	C28-C29-C30-C31
5	Be	305	A1A0P	O6-C17-C19-C20
5	Ba	309	A1A0P	C8-C1-O6-C17

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Mol	Chain	Res	Type	Atoms
5	Bb	307	A1A0P	C8-C1-O6-C17
5	Bc	308	A1A0P	C8-C1-O6-C17
5	Bd	309	A1A0P	C8-C1-O6-C17
5	Be	308	A1A0P	C8-C1-O6-C17
5	Bf	307	A1A0P	C8-C1-O6-C17
5	Bg	309	A1A0P	C8-C1-O6-C17
5	Bh	307	A1A0P	C8-C1-O6-C17
5	Bi	308	A1A0P	C8-C1-O6-C17
5	Ab	502	A1A0P	C38-C39-C40-C41
5	Ac	502	A1A0P	C38-C39-C40-C41
5	Ac	504	A1A0P	C38-C39-C40-C41
5	Ae	502	A1A0P	C38-C39-C40-C41
5	Ae	504	A1A0P	C38-C39-C40-C41
5	Ah	502	A1A0P	C38-C39-C40-C41
5	Ai	502	A1A0P	C38-C39-C40-C41
5	Ba	303	A1A0P	C40-C41-C42-C43
5	Bb	302	A1A0P	C40-C41-C42-C43
5	Bc	302	A1A0P	C40-C41-C42-C43
5	Be	302	A1A0P	C40-C41-C42-C43
5	Bf	302	A1A0P	C40-C41-C42-C43
5	Bg	303	A1A0P	C40-C41-C42-C43
5	Bh	302	A1A0P	C40-C41-C42-C43
5	Bi	302	A1A0P	C40-C41-C42-C43
5	Bg	305	A1A0P	C28-C29-C30-C31
5	Ac	504	A1A0P	C41-C42-C43-C44
5	Ae	504	A1A0P	C41-C42-C43-C44
5	Af	504	A1A0P	C41-C42-C43-C44
5	Ag	504	A1A0P	C41-C42-C43-C44
5	Ah	504	A1A0P	C41-C42-C43-C44
5	Ai	504	A1A0P	C41-C42-C43-C44
5	Ba	310	A1A0P	C41-C42-C43-C44
5	Bb	308	A1A0P	C41-C42-C43-C44
5	Be	309	A1A0P	C41-C42-C43-C44
5	Ba	305	A1A0P	C28-C29-C30-C31
5	Aa	502	A1A0P	C38-C39-C40-C41
5	Ad	502	A1A0P	C38-C39-C40-C41
5	Af	502	A1A0P	C38-C39-C40-C41
5	Af	504	A1A0P	C38-C39-C40-C41
5	Ag	502	A1A0P	C38-C39-C40-C41
5	Ag	504	A1A0P	C38-C39-C40-C41
5	Ah	504	A1A0P	C38-C39-C40-C41
5	Ba	310	A1A0P	C38-C39-C40-C41

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Mol	Chain	Res	Type	Atoms
5	Bb	308	A1A0P	C38-C39-C40-C41
5	Be	309	A1A0P	C38-C39-C40-C41
5	Ba	307	A1A0P	O6-C1-C8-O9
5	Bb	306	A1A0P	O6-C1-C8-O9
5	Bc	306	A1A0P	O6-C1-C8-O9
5	Bd	307	A1A0P	O6-C1-C8-O9
5	Be	306	A1A0P	O6-C1-C8-O9
5	Bf	306	A1A0P	O6-C1-C8-O9
5	Bg	307	A1A0P	O6-C1-C8-O9
5	Bh	306	A1A0P	O6-C1-C8-O9
5	Bi	306	A1A0P	O6-C1-C8-O9
5	Cf	307	A1A0P	O6-C1-C8-O9
5	Ai	504	A1A0P	C38-C39-C40-C41
5	Ba	304	A1A0P	C25-C26-C27-C28
5	Bb	303	A1A0P	C25-C26-C27-C28
5	Bf	303	A1A0P	C25-C26-C27-C28
5	Bg	304	A1A0P	C25-C26-C27-C28
5	Bc	303	A1A0P	C25-C26-C27-C28
5	Bd	304	A1A0P	C25-C26-C27-C28
5	Be	303	A1A0P	C25-C26-C27-C28
5	Bi	303	A1A0P	C25-C26-C27-C28
5	Ba	302	A1A0P	C23-C24-C25-C26
5	Bb	303	A1A0P	C19-C20-C21-C22
5	Bc	303	A1A0P	C19-C20-C21-C22
5	Bh	303	A1A0P	C25-C26-C27-C28
5	Ba	304	A1A0P	O6-C1-C2-O3
5	Bb	303	A1A0P	O6-C1-C2-O3
5	Bc	303	A1A0P	O6-C1-C2-O3
5	Bd	304	A1A0P	O6-C1-C2-O3
5	Be	303	A1A0P	O6-C1-C2-O3
5	Bf	303	A1A0P	O6-C1-C2-O3
5	Bg	304	A1A0P	O6-C1-C2-O3
5	Bh	303	A1A0P	O6-C1-C2-O3
5	Bi	303	A1A0P	O6-C1-C2-O3
5	Bb	303	A1A0P	C38-C39-C40-C41
5	Bc	303	A1A0P	C38-C39-C40-C41
5	Bd	304	A1A0P	C38-C39-C40-C41
5	Be	301	A1A0P	C23-C24-C25-C26
5	Bg	302	A1A0P	C23-C24-C25-C26
5	Bb	304	A1A0P	O6-C17-C19-C20
5	Ca	304	A1A0P	O6-C17-C19-C20
5	Cb	304	A1A0P	O6-C17-C19-C20

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Mol	Chain	Res	Type	Atoms
5	Cc	304	A1A0P	O6-C17-C19-C20
5	Cd	304	A1A0P	O6-C17-C19-C20
5	Ce	304	A1A0P	O6-C17-C19-C20
5	Cf	304	A1A0P	O6-C17-C19-C20
5	Cg	304	A1A0P	O6-C17-C19-C20
5	Ch	304	A1A0P	O6-C17-C19-C20
5	Ci	304	A1A0P	O6-C17-C19-C20
5	Bb	307	A1A0P	C43-C44-C45-C46
5	Bf	301	A1A0P	C23-C24-C25-C26
5	Bg	304	A1A0P	C19-C20-C21-C22
5	Bd	309	A1A0P	C43-C44-C45-C46
5	Be	303	A1A0P	C19-C20-C21-C22
5	Bf	303	A1A0P	C19-C20-C21-C22
5	Bh	303	A1A0P	C19-C20-C21-C22
5	Bi	303	A1A0P	C19-C20-C21-C22
5	Ba	304	A1A0P	C19-C20-C21-C22
5	Bb	301	A1A0P	C23-C24-C25-C26
5	Bc	308	A1A0P	C43-C44-C45-C46
5	Bd	304	A1A0P	C19-C20-C21-C22
5	Be	305	A1A0P	C34-C35-C36-C37
5	Bh	301	A1A0P	C23-C24-C25-C26
5	Ba	305	A1A0P	O6-C17-C19-C20
5	Bc	304	A1A0P	O6-C17-C19-C20
5	Bd	305	A1A0P	O6-C17-C19-C20
5	Be	304	A1A0P	O6-C17-C19-C20
5	Bf	304	A1A0P	O6-C17-C19-C20
5	Bg	305	A1A0P	O6-C17-C19-C20
5	Bh	304	A1A0P	O6-C17-C19-C20
5	Bc	301	A1A0P	C23-C24-C25-C26
5	Bc	305	A1A0P	C34-C35-C36-C37
5	Bd	302	A1A0P	C23-C24-C25-C26
5	Bd	306	A1A0P	C34-C35-C36-C37
5	Bf	307	A1A0P	C43-C44-C45-C46
5	Bg	306	A1A0P	C34-C35-C36-C37
5	Bi	301	A1A0P	C23-C24-C25-C26
5	Bi	305	A1A0P	C34-C35-C36-C37
5	Bi	308	A1A0P	C43-C44-C45-C46
5	Cb	301	A1A0P	C35-C36-C37-C38
5	Bh	307	A1A0P	C43-C44-C45-C46
5	Ba	309	A1A0P	C43-C44-C45-C46
5	Ci	301	A1A0P	C35-C36-C37-C38
5	Cc	301	A1A0P	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
5	Ce	301	A1A0P	C35-C36-C37-C38
5	Cg	301	A1A0P	C35-C36-C37-C38
5	Ch	301	A1A0P	C35-C36-C37-C38
5	Bi	304	A1A0P	O6-C17-C19-C20
5	Ca	307	A1A0P	O6-C17-C19-C20
5	Cb	307	A1A0P	O6-C17-C19-C20
5	Cd	307	A1A0P	O6-C17-C19-C20
5	Ce	307	A1A0P	O6-C17-C19-C20
5	Cf	307	A1A0P	O6-C17-C19-C20
5	Cg	307	A1A0P	O6-C17-C19-C20
5	Ch	307	A1A0P	O6-C17-C19-C20
5	Ci	307	A1A0P	O6-C17-C19-C20
5	Ba	304	A1A0P	C38-C39-C40-C41
5	Be	303	A1A0P	C38-C39-C40-C41
5	Bf	303	A1A0P	C38-C39-C40-C41
5	Bg	304	A1A0P	C38-C39-C40-C41
5	Bh	303	A1A0P	C38-C39-C40-C41
5	Bi	303	A1A0P	C38-C39-C40-C41
5	Ca	301	A1A0P	C38-C39-C40-C41
5	Cb	301	A1A0P	C38-C39-C40-C41
5	Cc	301	A1A0P	C38-C39-C40-C41
5	Cd	301	A1A0P	C38-C39-C40-C41
5	Ce	301	A1A0P	C38-C39-C40-C41
5	Cf	301	A1A0P	C38-C39-C40-C41
5	Cg	301	A1A0P	C38-C39-C40-C41
5	Ch	301	A1A0P	C38-C39-C40-C41
5	Ci	301	A1A0P	C38-C39-C40-C41
5	Ba	306	A1A0P	C34-C35-C36-C37
5	Bb	305	A1A0P	C34-C35-C36-C37
5	Be	308	A1A0P	C43-C44-C45-C46
5	Bi	301	A1A0P	C19-C20-C21-C22
5	Cd	301	A1A0P	C35-C36-C37-C38
5	Cg	303	A1A0P	C44-C45-C46-C47
5	Ch	303	A1A0P	C44-C45-C46-C47
5	Bc	301	A1A0P	C19-C20-C21-C22
5	Bg	309	A1A0P	C43-C44-C45-C46
5	Bh	305	A1A0P	C34-C35-C36-C37
5	Bf	305	A1A0P	C34-C35-C36-C37
5	Ca	301	A1A0P	C35-C36-C37-C38
5	Cb	303	A1A0P	C44-C45-C46-C47
5	Cc	303	A1A0P	C44-C45-C46-C47
5	Cf	301	A1A0P	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
5	Cf	303	A1A0P	C44-C45-C46-C47
5	Ca	303	A1A0P	C44-C45-C46-C47
5	Ci	303	A1A0P	C44-C45-C46-C47
5	Cc	307	A1A0P	O6-C17-C19-C20
5	Bd	302	A1A0P	C19-C20-C21-C22
5	Cd	303	A1A0P	C44-C45-C46-C47
5	Ce	303	A1A0P	C44-C45-C46-C47
5	Bf	301	A1A0P	C19-C20-C21-C22
5	Be	301	A1A0P	C19-C20-C21-C22
5	Bh	301	A1A0P	C19-C20-C21-C22
5	Ba	310	A1A0P	C17-C19-C20-C21
5	Bg	302	A1A0P	C19-C20-C21-C22
5	Ba	302	A1A0P	C19-C20-C21-C22
5	Bb	301	A1A0P	C19-C20-C21-C22
5	Bd	309	A1A0P	C34-C35-C36-C37
5	Ba	309	A1A0P	C34-C35-C36-C37
5	Bf	307	A1A0P	C34-C35-C36-C37
5	Ae	504	A1A0P	O6-C17-C19-C20
5	Af	504	A1A0P	O6-C17-C19-C20
5	Ah	504	A1A0P	C17-C19-C20-C21
5	Af	503	A1A0P	C28-C29-C30-C31
5	Bb	307	A1A0P	C34-C35-C36-C37
5	Bh	307	A1A0P	C34-C35-C36-C37
5	Bi	308	A1A0P	C34-C35-C36-C37
5	Ca	307	A1A0P	O6-C1-C8-O9
5	Bc	308	A1A0P	C34-C35-C36-C37
5	Be	308	A1A0P	C34-C35-C36-C37
5	Bg	309	A1A0P	C34-C35-C36-C37
5	Aa	503	A1A0P	C28-C29-C30-C31
5	Ad	503	A1A0P	C28-C29-C30-C31
5	Ag	504	A1A0P	C17-C19-C20-C21
5	Ai	504	A1A0P	C17-C19-C20-C21
5	Be	309	A1A0P	C17-C19-C20-C21
5	Ah	503	A1A0P	C28-C29-C30-C31
5	Ac	504	A1A0P	O6-C17-C19-C20
5	Ag	504	A1A0P	O6-C17-C19-C20
5	Ah	504	A1A0P	O6-C17-C19-C20
5	Ai	504	A1A0P	O6-C17-C19-C20
5	Ba	310	A1A0P	O6-C17-C19-C20
5	Bb	308	A1A0P	O6-C17-C19-C20
5	Be	309	A1A0P	O6-C17-C19-C20
5	Bf	303	A1A0P	O6-C17-C19-C20

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Mol	Chain	Res	Type	Atoms
5	Ab	503	A1A0P	C28-C29-C30-C31
5	Ae	503	A1A0P	C28-C29-C30-C31
5	Ag	503	A1A0P	C28-C29-C30-C31
5	Ai	503	A1A0P	C28-C29-C30-C31
5	Ac	504	A1A0P	C17-C19-C20-C21
5	Bb	308	A1A0P	C17-C19-C20-C21
5	Ac	503	A1A0P	C28-C29-C30-C31
5	Ba	304	A1A0P	O6-C17-C19-C20
5	Bb	303	A1A0P	O6-C17-C19-C20
5	Bc	303	A1A0P	O6-C17-C19-C20
5	Bd	304	A1A0P	O6-C17-C19-C20
5	Be	303	A1A0P	O6-C17-C19-C20
5	Bg	304	A1A0P	O6-C17-C19-C20
5	Bh	303	A1A0P	O6-C17-C19-C20
5	Ae	504	A1A0P	C17-C19-C20-C21
5	Af	504	A1A0P	C17-C19-C20-C21
5	Ba	305	A1A0P	O3-C4-C7-C34
5	Bc	304	A1A0P	O3-C4-C7-C34
5	Be	304	A1A0P	O3-C4-C7-C34
5	Bf	304	A1A0P	O3-C4-C7-C34
5	Bg	305	A1A0P	O3-C4-C7-C34
5	Bi	303	A1A0P	O6-C17-C19-C20
5	Ba	303	A1A0P	C8-C1-C2-O3
5	Bb	302	A1A0P	C8-C1-C2-O3
5	Bc	302	A1A0P	C8-C1-C2-O3
5	Bd	303	A1A0P	C8-C1-C2-O3
5	Be	302	A1A0P	C8-C1-C2-O3
5	Bf	302	A1A0P	C8-C1-C2-O3
5	Bg	303	A1A0P	C8-C1-C2-O3
5	Bh	302	A1A0P	C8-C1-C2-O3
5	Bi	302	A1A0P	C8-C1-C2-O3
5	Ci	301	A1A0P	C27-C28-C29-C30
5	Bb	304	A1A0P	O3-C4-C7-C34
5	Bh	304	A1A0P	O3-C4-C7-C34
5	Bi	304	A1A0P	O3-C4-C7-C34
5	Ca	301	A1A0P	C27-C28-C29-C30
5	Ce	301	A1A0P	C27-C28-C29-C30
5	Cg	301	A1A0P	C27-C28-C29-C30
5	Ba	307	A1A0P	O6-C17-C19-C20
5	Bb	306	A1A0P	O6-C17-C19-C20
5	Bc	306	A1A0P	O6-C17-C19-C20
5	Bd	305	A1A0P	O3-C4-C7-C34

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Mol	Chain	Res	Type	Atoms
5	Bd	307	A1A0P	O6-C17-C19-C20
5	Be	306	A1A0P	O6-C17-C19-C20
5	Bf	306	A1A0P	O6-C17-C19-C20
5	Bg	307	A1A0P	O6-C17-C19-C20
5	Bh	306	A1A0P	O6-C17-C19-C20
5	Bi	306	A1A0P	O6-C17-C19-C20
5	Ca	302	A1A0P	O3-C4-C7-C34
5	Cb	302	A1A0P	O3-C4-C7-C34
5	Cc	302	A1A0P	O3-C4-C7-C34
5	Cd	302	A1A0P	O3-C4-C7-C34
5	Ce	302	A1A0P	O3-C4-C7-C34
5	Cf	302	A1A0P	O3-C4-C7-C34
5	Cg	302	A1A0P	O3-C4-C7-C34
5	Ch	302	A1A0P	O3-C4-C7-C34
5	Ci	302	A1A0P	O3-C4-C7-C34
5	Ca	308	A1A0P	C37-C38-C39-C40
5	Cb	308	A1A0P	C37-C38-C39-C40
5	Cc	308	A1A0P	C37-C38-C39-C40
5	Cd	308	A1A0P	C37-C38-C39-C40
5	Ce	308	A1A0P	C37-C38-C39-C40
5	Cf	308	A1A0P	C37-C38-C39-C40
5	Cg	308	A1A0P	C37-C38-C39-C40
5	Ch	308	A1A0P	C37-C38-C39-C40
5	Ci	308	A1A0P	C37-C38-C39-C40
5	Cc	301	A1A0P	C27-C28-C29-C30
5	Cd	307	A1A0P	C28-C29-C30-C31
5	Cf	301	A1A0P	C27-C28-C29-C30
5	Ch	301	A1A0P	C27-C28-C29-C30
5	Ch	307	A1A0P	C28-C29-C30-C31
5	Cg	303	A1A0P	C7-C34-C35-C36
5	Ca	303	A1A0P	C7-C34-C35-C36
5	Cc	303	A1A0P	C7-C34-C35-C36
5	Cd	301	A1A0P	C27-C28-C29-C30
5	Ce	307	A1A0P	C28-C29-C30-C31
5	Aa	503	A1A0P	C2-C1-C8-O9
5	Ab	503	A1A0P	C2-C1-C8-O9
5	Ac	503	A1A0P	C2-C1-C8-O9
5	Ad	503	A1A0P	C2-C1-C8-O9
5	Ae	503	A1A0P	C2-C1-C8-O9
5	Af	503	A1A0P	C2-C1-C8-O9
5	Ag	503	A1A0P	C2-C1-C8-O9
5	Ah	503	A1A0P	C2-C1-C8-O9

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Mol	Chain	Res	Type	Atoms
5	Ai	503	A1A0P	C2-C1-C8-O9
5	Cf	303	A1A0P	C7-C34-C35-C36
5	Ci	303	A1A0P	C7-C34-C35-C36
5	Cb	307	A1A0P	C28-C29-C30-C31
5	Cc	307	A1A0P	C28-C29-C30-C31
5	Cb	301	A1A0P	C27-C28-C29-C30
5	Ce	303	A1A0P	C7-C34-C35-C36
5	Cg	307	A1A0P	C28-C29-C30-C31
5	Ch	303	A1A0P	C7-C34-C35-C36
5	Ci	307	A1A0P	C28-C29-C30-C31
5	Ca	307	A1A0P	C28-C29-C30-C31
5	Cb	306	A1A0P	C22-C23-C24-C25
5	Cd	303	A1A0P	C7-C34-C35-C36
5	Cb	303	A1A0P	C7-C34-C35-C36
5	Cd	306	A1A0P	C22-C23-C24-C25
5	Cg	306	A1A0P	C22-C23-C24-C25
5	Ca	306	A1A0P	C22-C23-C24-C25
5	Ch	306	A1A0P	C22-C23-C24-C25
5	Ci	306	A1A0P	C22-C23-C24-C25
5	Cc	306	A1A0P	C22-C23-C24-C25
5	Cf	306	A1A0P	C22-C23-C24-C25
5	Cf	306	A1A0P	C26-C27-C28-C29
5	Cb	306	A1A0P	C26-C27-C28-C29
5	Cc	306	A1A0P	C26-C27-C28-C29
5	Ce	306	A1A0P	C22-C23-C24-C25
5	Ce	306	A1A0P	C26-C27-C28-C29
5	Cf	307	A1A0P	C28-C29-C30-C31
5	Cg	306	A1A0P	C26-C27-C28-C29
5	Ch	306	A1A0P	C26-C27-C28-C29
5	Cd	306	A1A0P	C26-C27-C28-C29
5	Ci	306	A1A0P	C26-C27-C28-C29
5	Ca	306	A1A0P	C26-C27-C28-C29
5	Cc	307	A1A0P	O18-C17-C19-C20
5	Cf	307	A1A0P	O18-C17-C19-C20
5	Cg	307	A1A0P	O18-C17-C19-C20
5	Ci	307	A1A0P	O18-C17-C19-C20
5	Bh	305	A1A0P	C35-C34-C7-C4
5	Ca	307	A1A0P	O18-C17-C19-C20
5	Cd	307	A1A0P	O18-C17-C19-C20
5	Ce	307	A1A0P	O18-C17-C19-C20
5	Bf	305	A1A0P	C35-C34-C7-C4
5	Cb	307	A1A0P	O18-C17-C19-C20

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Mol	Chain	Res	Type	Atoms
5	Ch	307	A1A0P	O18-C17-C19-C20
5	Ci	304	A1A0P	O18-C17-C19-C20
5	Cb	307	A1A0P	O6-C1-C8-O9
5	Cc	307	A1A0P	O6-C1-C8-O9
5	Cd	307	A1A0P	O6-C1-C8-O9
5	Ce	307	A1A0P	O6-C1-C8-O9
5	Cg	307	A1A0P	O6-C1-C8-O9
5	Ch	307	A1A0P	O6-C1-C8-O9
5	Ci	307	A1A0P	O6-C1-C8-O9
5	Ba	306	A1A0P	C35-C34-C7-C4
5	Bb	305	A1A0P	C35-C34-C7-C4
5	Bc	305	A1A0P	C35-C34-C7-C4
5	Bd	306	A1A0P	C35-C34-C7-C4
5	Be	305	A1A0P	C35-C34-C7-C4
5	Bg	306	A1A0P	C35-C34-C7-C4
5	Bi	305	A1A0P	C35-C34-C7-C4
5	Ca	304	A1A0P	O18-C17-C19-C20
5	Cb	304	A1A0P	O18-C17-C19-C20
5	Cc	304	A1A0P	O18-C17-C19-C20
5	Cd	304	A1A0P	O18-C17-C19-C20
5	Ce	304	A1A0P	O18-C17-C19-C20
5	Cf	304	A1A0P	O18-C17-C19-C20
5	Cg	304	A1A0P	O18-C17-C19-C20
5	Ch	304	A1A0P	O18-C17-C19-C20
5	Ac	504	A1A0P	O18-C17-C19-C20
5	Af	504	A1A0P	O18-C17-C19-C20
5	Ba	305	A1A0P	O5-C4-C7-C34
5	Bb	304	A1A0P	O5-C4-C7-C34
5	Bb	308	A1A0P	O18-C17-C19-C20
5	Ca	303	A1A0P	C20-C21-C22-C23
5	Cc	303	A1A0P	C20-C21-C22-C23
5	Ce	303	A1A0P	C20-C21-C22-C23
5	Cf	303	A1A0P	C20-C21-C22-C23
5	Ci	303	A1A0P	C20-C21-C22-C23
5	Bc	307	A1A0P	C1-C2-O3-C4
5	Bd	308	A1A0P	C1-C2-O3-C4
5	Bc	304	A1A0P	O18-C17-C19-C20
5	Be	304	A1A0P	O5-C4-C7-C34
5	Bf	304	A1A0P	O5-C4-C7-C34
5	Bg	305	A1A0P	O5-C4-C7-C34
5	Cd	303	A1A0P	C20-C21-C22-C23
5	Cg	303	A1A0P	C20-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
5	Cd	304	A1A0P	O3-C4-C7-C34
5	Cf	304	A1A0P	O3-C4-C7-C34
5	Ch	303	A1A0P	C20-C21-C22-C23
5	Ba	303	A1A0P	C38-C39-C40-C41
5	Bb	302	A1A0P	C38-C39-C40-C41
5	Bd	303	A1A0P	C38-C39-C40-C41
5	Ae	504	A1A0P	O18-C17-C19-C20
5	Ag	504	A1A0P	O18-C17-C19-C20
5	Ah	504	A1A0P	O18-C17-C19-C20
5	Ai	504	A1A0P	O18-C17-C19-C20
5	Ba	305	A1A0P	O18-C17-C19-C20
5	Ba	310	A1A0P	O18-C17-C19-C20
5	Bb	304	A1A0P	O18-C17-C19-C20
5	Bc	304	A1A0P	O5-C4-C7-C34
5	Bd	305	A1A0P	O5-C4-C7-C34
5	Bd	305	A1A0P	O18-C17-C19-C20
5	Be	304	A1A0P	O18-C17-C19-C20
5	Be	309	A1A0P	O18-C17-C19-C20
5	Bg	305	A1A0P	O18-C17-C19-C20
5	Bh	304	A1A0P	O5-C4-C7-C34
5	Bh	304	A1A0P	O18-C17-C19-C20
5	Bi	304	A1A0P	O5-C4-C7-C34
5	Bi	304	A1A0P	O18-C17-C19-C20
5	Cb	303	A1A0P	C20-C21-C22-C23
5	Ch	307	A1A0P	C30-C31-C32-C33
5	Ca	307	A1A0P	C30-C31-C32-C33
5	Cb	307	A1A0P	C30-C31-C32-C33
5	Cd	307	A1A0P	C30-C31-C32-C33
5	Ce	307	A1A0P	C30-C31-C32-C33
5	Cg	307	A1A0P	C30-C31-C32-C33
5	Ci	307	A1A0P	C30-C31-C32-C33
5	Ca	304	A1A0P	O3-C4-C7-C34
5	Cc	304	A1A0P	O3-C4-C7-C34
5	Cg	304	A1A0P	O3-C4-C7-C34
5	Ch	304	A1A0P	O3-C4-C7-C34
5	Ci	304	A1A0P	O3-C4-C7-C34
5	Bf	304	A1A0P	O18-C17-C19-C20
5	Cd	302	A1A0P	O5-C4-C7-C34
5	Ch	302	A1A0P	O5-C4-C7-C34
5	Cc	307	A1A0P	C30-C31-C32-C33
5	Cf	307	A1A0P	C30-C31-C32-C33
5	Ba	306	A1A0P	O6-C1-C2-O3

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Mol	Chain	Res	Type	Atoms
5	Bb	305	A1A0P	O6-C1-C2-O3
5	Bc	305	A1A0P	O6-C1-C2-O3
5	Bd	306	A1A0P	O6-C1-C2-O3
5	Be	305	A1A0P	O6-C1-C2-O3
5	Bf	305	A1A0P	O6-C1-C2-O3
5	Bg	306	A1A0P	O6-C1-C2-O3
5	Bh	305	A1A0P	O6-C1-C2-O3
5	Bi	305	A1A0P	O6-C1-C2-O3
5	Be	307	A1A0P	C1-C2-O3-C4
5	Bf	308	A1A0P	C1-C2-O3-C4
5	Bh	308	A1A0P	C1-C2-O3-C4
5	Cb	302	A1A0P	O5-C4-C7-C34
5	Cc	302	A1A0P	O5-C4-C7-C34
5	Ce	302	A1A0P	O5-C4-C7-C34
5	Cf	302	A1A0P	O5-C4-C7-C34
5	Ci	302	A1A0P	O5-C4-C7-C34
5	Cb	304	A1A0P	O3-C4-C7-C34
5	Ce	304	A1A0P	O3-C4-C7-C34
5	Cf	306	A1A0P	O6-C17-C19-C20
5	Bi	302	A1A0P	C38-C39-C40-C41
5	Ba	304	A1A0P	O18-C17-C19-C20
5	Ba	307	A1A0P	O18-C17-C19-C20
5	Bb	303	A1A0P	O18-C17-C19-C20
5	Bb	306	A1A0P	O18-C17-C19-C20
5	Bc	303	A1A0P	O18-C17-C19-C20
5	Bc	306	A1A0P	O18-C17-C19-C20
5	Bd	304	A1A0P	O18-C17-C19-C20
5	Be	303	A1A0P	O18-C17-C19-C20
5	Be	306	A1A0P	O18-C17-C19-C20
5	Bf	303	A1A0P	O18-C17-C19-C20
5	Bf	306	A1A0P	O18-C17-C19-C20
5	Bg	304	A1A0P	O18-C17-C19-C20
5	Bg	307	A1A0P	O18-C17-C19-C20
5	Bh	303	A1A0P	O18-C17-C19-C20
5	Bh	306	A1A0P	O18-C17-C19-C20
5	Bi	303	A1A0P	O18-C17-C19-C20
5	Ca	302	A1A0P	O5-C4-C7-C34
5	Cg	302	A1A0P	O5-C4-C7-C34
5	Cb	306	A1A0P	O6-C17-C19-C20
5	Cc	306	A1A0P	O6-C17-C19-C20
5	Cd	306	A1A0P	O6-C17-C19-C20
5	Ce	306	A1A0P	O6-C17-C19-C20

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Mol	Chain	Res	Type	Atoms
5	Cg	306	A1A0P	O6-C17-C19-C20
5	Ch	306	A1A0P	O6-C17-C19-C20
5	Ba	308	A1A0P	C1-C2-O3-C4
5	Bb	309	A1A0P	C1-C2-O3-C4
5	Bi	307	A1A0P	C1-C2-O3-C4
5	Bd	307	A1A0P	O18-C17-C19-C20
5	Bi	306	A1A0P	O18-C17-C19-C20
5	Ca	306	A1A0P	O6-C17-C19-C20
5	Ci	306	A1A0P	O6-C17-C19-C20
5	Bg	308	A1A0P	C1-C2-O3-C4
5	Bc	302	A1A0P	C38-C39-C40-C41
5	Be	302	A1A0P	C38-C39-C40-C41
5	Bf	302	A1A0P	C38-C39-C40-C41
5	Bg	303	A1A0P	C38-C39-C40-C41
5	Bh	302	A1A0P	C38-C39-C40-C41
5	Ca	303	A1A0P	O6-C17-C19-C20
5	Cb	303	A1A0P	O6-C17-C19-C20
5	Cc	303	A1A0P	O6-C17-C19-C20
5	Cd	303	A1A0P	O6-C17-C19-C20
5	Ce	303	A1A0P	O6-C17-C19-C20
5	Cg	303	A1A0P	O6-C17-C19-C20
5	Ch	303	A1A0P	O6-C17-C19-C20
5	Ci	303	A1A0P	O6-C17-C19-C20
5	Ae	504	A1A0P	C24-C25-C26-C27

There are no ring outliers.

159 monomers are involved in 1750 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Ba	307	A1A0P	1	0
5	Bg	309	A1A0P	40	0
5	Bf	307	A1A0P	41	0
5	Ch	306	A1A0P	1	0
5	Ah	503	A1A0P	17	0
5	Ae	503	A1A0P	16	0
5	Bd	302	A1A0P	6	0
5	Af	503	A1A0P	16	0
5	Bh	305	A1A0P	9	0
5	Ca	302	A1A0P	30	0
5	Cg	305	A1A0P	11	0
5	Bc	306	A1A0P	2	0
5	Bf	304	A1A0P	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Bh	308	A1A0P	22	0
5	Cc	304	A1A0P	41	0
5	Ai	503	A1A0P	16	0
5	Cb	305	A1A0P	11	0
5	Ce	308	A1A0P	17	0
5	Ce	307	A1A0P	2	0
5	Bc	305	A1A0P	7	0
5	Ch	301	A1A0P	4	0
5	Cc	306	A1A0P	1	0
5	Ch	305	A1A0P	10	0
5	Cb	308	A1A0P	18	0
5	Ce	301	A1A0P	3	0
5	Cf	308	A1A0P	17	0
5	Bf	301	A1A0P	5	0
5	Ah	502	A1A0P	7	0
5	Be	307	A1A0P	20	0
5	Ci	303	A1A0P	14	0
5	Cf	302	A1A0P	31	0
5	Ce	304	A1A0P	40	0
5	Bb	306	A1A0P	2	0
5	Cc	305	A1A0P	11	0
5	Cb	301	A1A0P	4	0
5	Ad	503	A1A0P	17	0
5	Bg	303	A1A0P	7	0
5	Bh	307	A1A0P	42	0
5	Cd	307	A1A0P	1	0
5	Cc	308	A1A0P	18	0
5	Cc	302	A1A0P	32	0
5	Bd	306	A1A0P	9	0
5	Ah	504	A1A0P	1	0
5	Bb	307	A1A0P	42	0
5	Bc	304	A1A0P	6	0
5	Ci	304	A1A0P	40	0
5	Cb	307	A1A0P	2	0
5	Cf	303	A1A0P	16	0
5	Be	305	A1A0P	9	0
5	Aa	502	A1A0P	15	0
5	Cg	303	A1A0P	18	0
5	Bb	305	A1A0P	9	0
5	Cg	302	A1A0P	32	0
5	Ci	308	A1A0P	18	0
5	Bg	308	A1A0P	20	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Ad	502	A1A0P	17	0
5	Ab	503	A1A0P	17	0
5	Ch	304	A1A0P	41	0
5	Ac	503	A1A0P	15	0
5	Ag	502	A1A0P	17	0
5	Bd	305	A1A0P	8	0
5	Bf	305	A1A0P	8	0
5	Bi	307	A1A0P	19	0
5	Ce	305	A1A0P	11	0
5	Ch	303	A1A0P	14	0
5	Bc	307	A1A0P	19	0
5	Cc	307	A1A0P	2	0
5	Ca	307	A1A0P	2	0
5	Ce	302	A1A0P	31	0
5	Bf	302	A1A0P	9	0
5	Be	301	A1A0P	4	0
5	Bd	307	A1A0P	4	0
5	Be	304	A1A0P	8	0
5	Cg	301	A1A0P	4	0
5	Ba	302	A1A0P	2	0
5	Cb	306	A1A0P	1	0
5	Cf	301	A1A0P	4	0
5	Be	306	A1A0P	2	0
5	Ca	304	A1A0P	41	0
5	Cd	304	A1A0P	41	0
5	Bd	303	A1A0P	7	0
5	Ci	306	A1A0P	3	0
5	Ch	308	A1A0P	19	0
5	Bc	301	A1A0P	2	0
5	Bb	309	A1A0P	20	0
5	Bg	305	A1A0P	8	0
5	Bg	307	A1A0P	3	0
5	Bi	306	A1A0P	4	0
5	Ae	502	A1A0P	16	0
5	Bf	308	A1A0P	20	0
5	Bh	304	A1A0P	6	0
5	Ba	306	A1A0P	10	0
5	Bb	302	A1A0P	6	0
5	Ac	504	A1A0P	1	0
5	Ca	301	A1A0P	3	0
5	Cd	301	A1A0P	4	0
5	Ci	307	A1A0P	2	0

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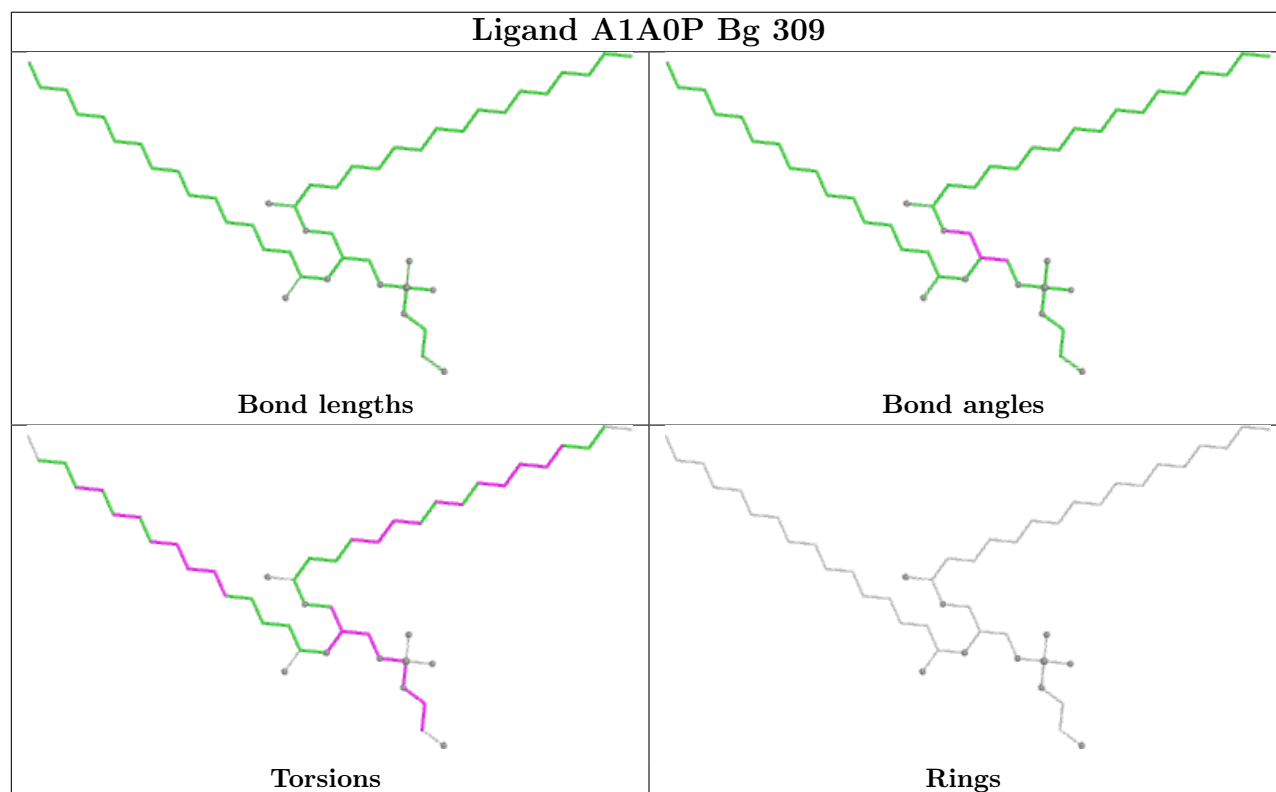
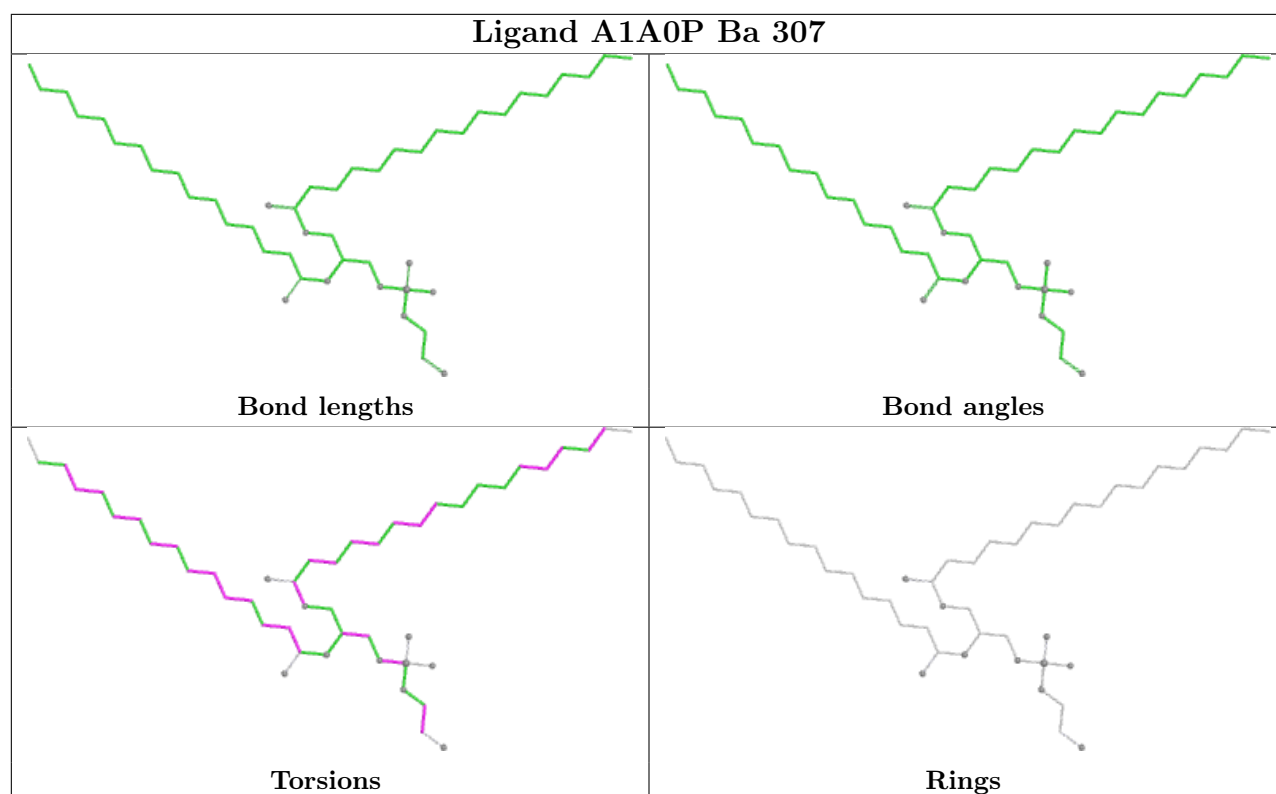
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Cb	304	A1A0P	40	0
5	Bh	306	A1A0P	2	0
5	Cd	302	A1A0P	33	0
5	Ac	502	A1A0P	17	0
5	Cf	306	A1A0P	3	0
5	Bb	304	A1A0P	6	0
5	Ch	307	A1A0P	1	0
5	Bg	302	A1A0P	4	0
5	Bh	302	A1A0P	7	0
5	Ce	303	A1A0P	14	0
5	Ab	502	A1A0P	18	0
5	Aa	503	A1A0P	18	0
5	Ba	310	A1A0P	1	0
5	Cf	305	A1A0P	11	0
5	Be	309	A1A0P	1	0
5	Bg	306	A1A0P	9	0
5	Cb	303	A1A0P	16	0
5	Cg	308	A1A0P	17	0
5	Ba	309	A1A0P	41	0
5	Ca	308	A1A0P	17	0
5	Cd	303	A1A0P	13	0
5	Cf	307	A1A0P	3	0
5	Ca	303	A1A0P	14	0
5	Cb	302	A1A0P	31	0
5	Ag	503	A1A0P	17	0
5	Ca	306	A1A0P	3	0
5	Cd	308	A1A0P	18	0
5	Ci	305	A1A0P	11	0
5	Cd	306	A1A0P	1	0
5	Be	303	A1A0P	1	0
5	Bd	308	A1A0P	20	0
5	Bi	305	A1A0P	9	0
5	Be	302	A1A0P	7	0
5	Ba	305	A1A0P	6	0
5	Cf	304	A1A0P	39	0
5	Cg	307	A1A0P	3	0
5	Ca	305	A1A0P	11	0
5	Bh	301	A1A0P	6	0
5	Bg	304	A1A0P	1	0
5	Cd	305	A1A0P	11	0
5	Cc	303	A1A0P	16	0
5	Bi	302	A1A0P	7	0

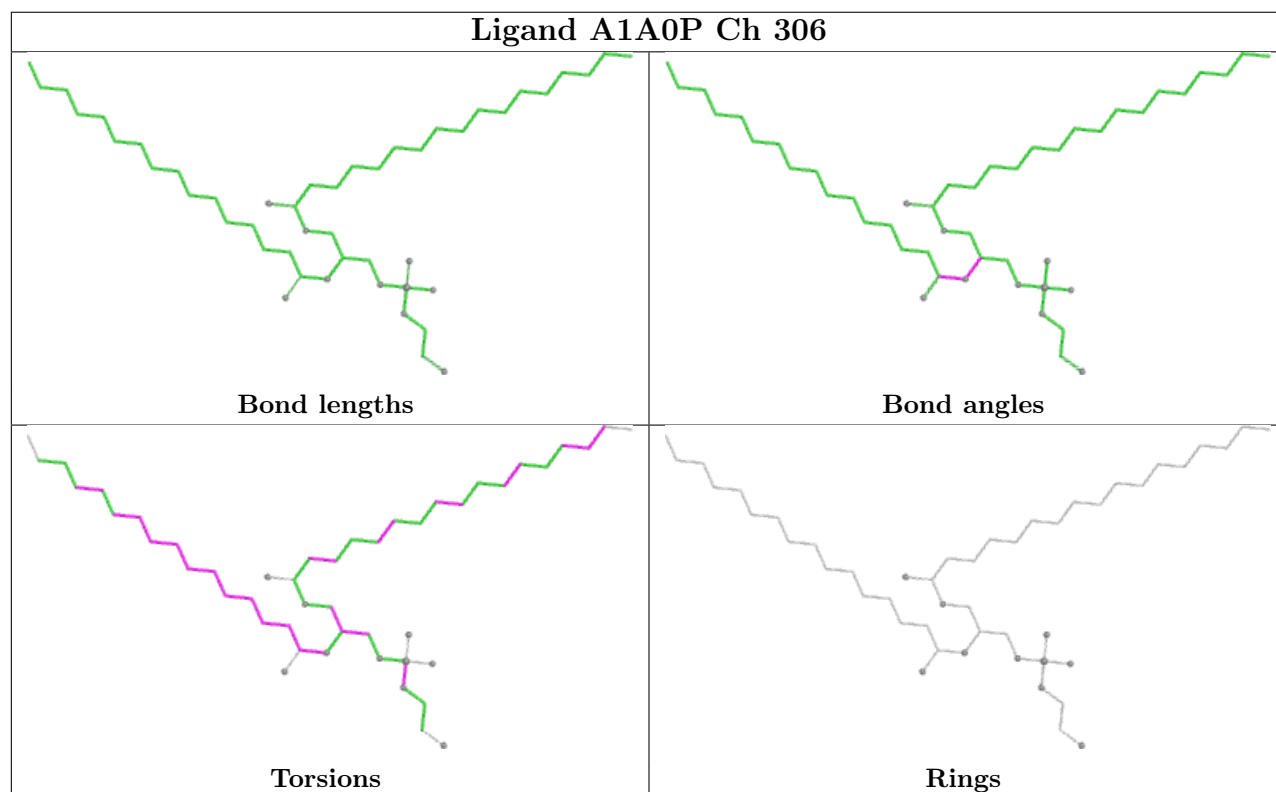
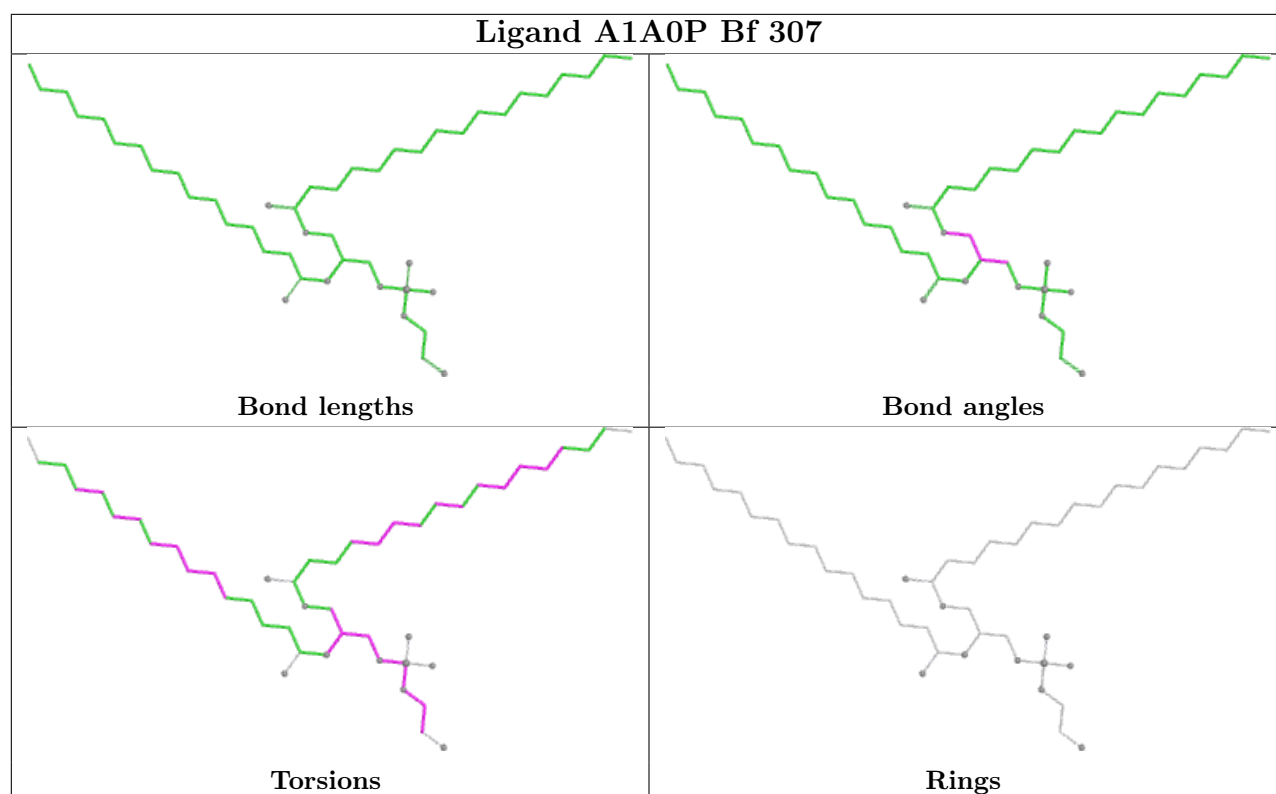
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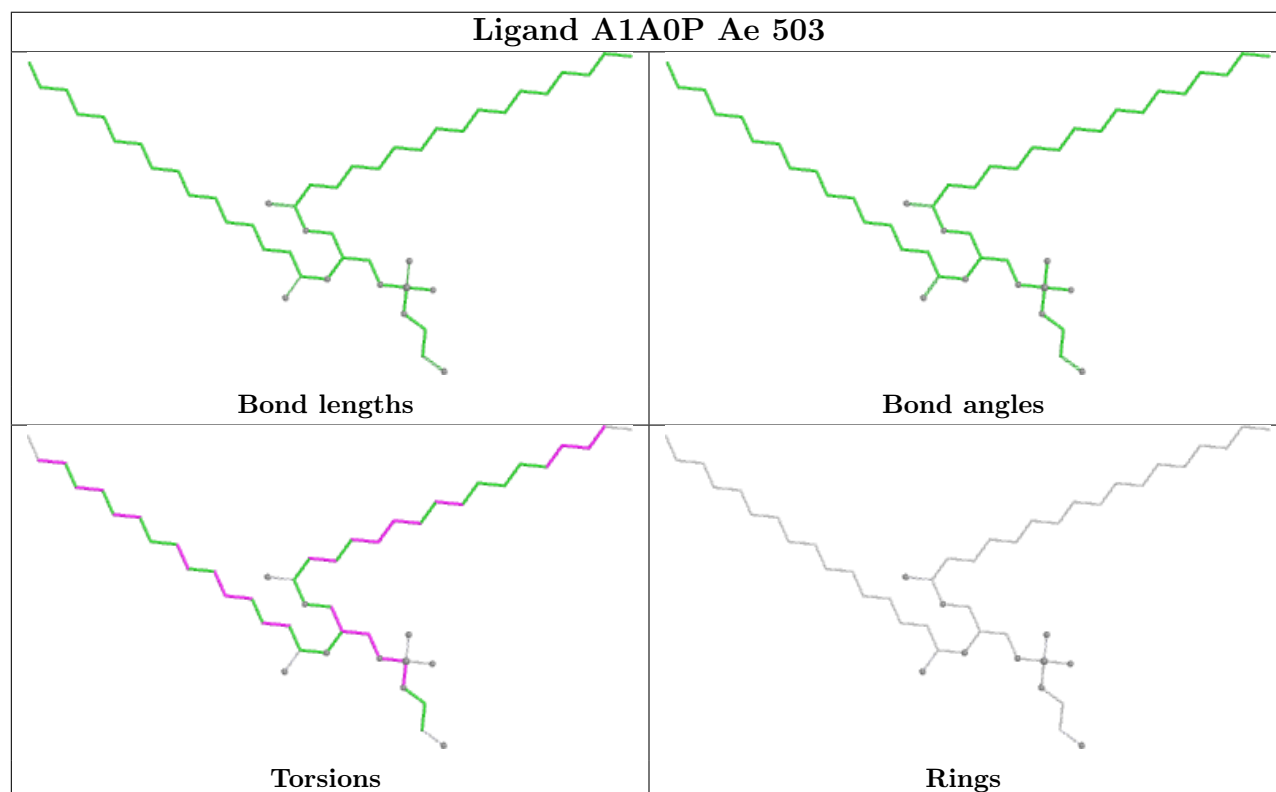
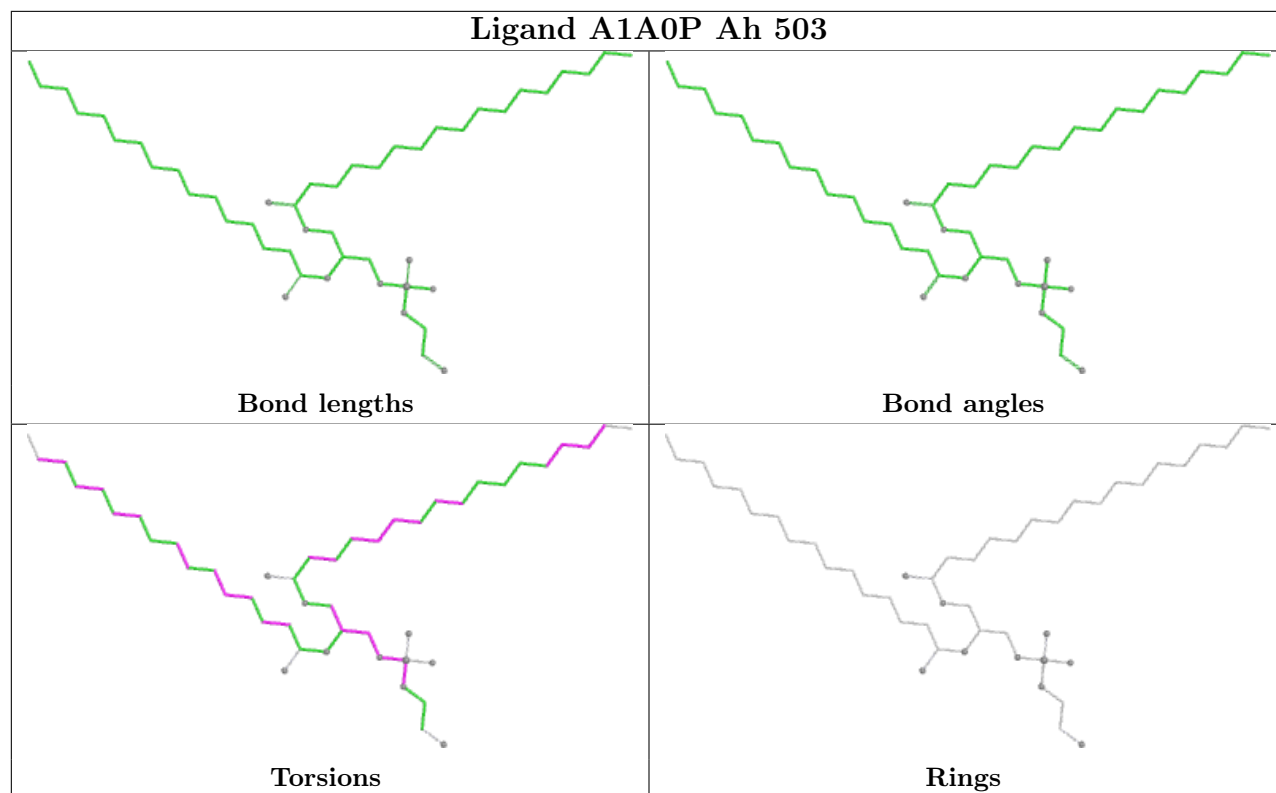
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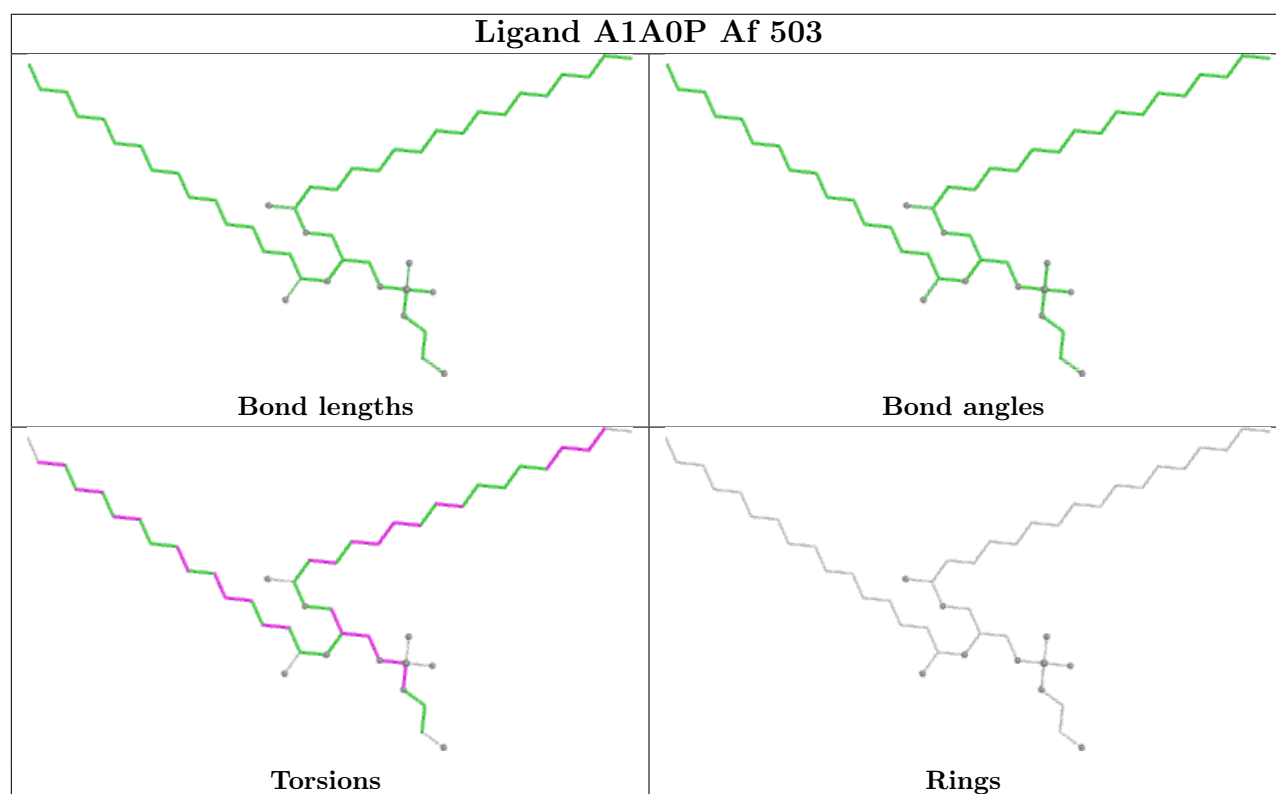
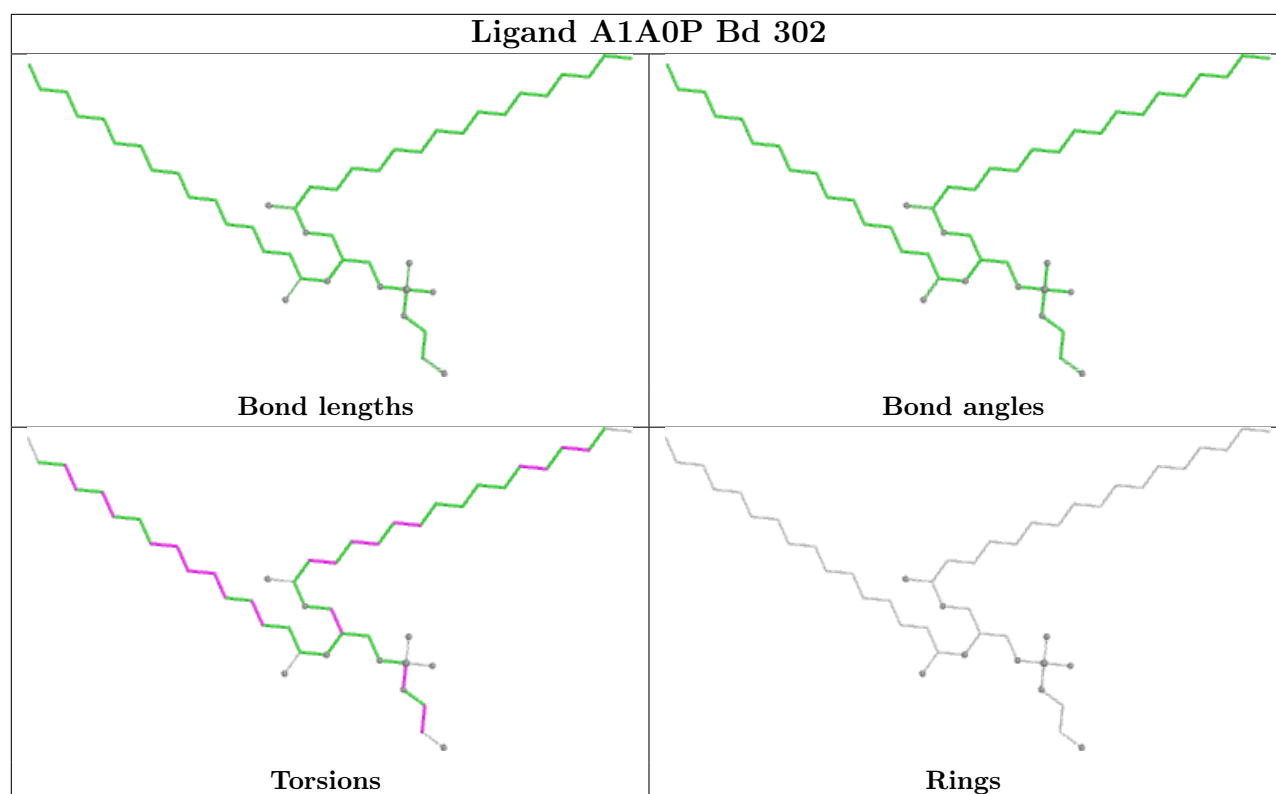
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Ce	306	A1A0P	3	0
5	Ba	303	A1A0P	7	0
5	Ba	308	A1A0P	20	0
5	Cg	306	A1A0P	3	0
5	Cc	301	A1A0P	3	0
5	Bc	302	A1A0P	7	0
5	Ci	302	A1A0P	32	0
5	Ch	302	A1A0P	35	0
5	Cg	304	A1A0P	41	0
5	Ai	502	A1A0P	11	0
5	Be	308	A1A0P	42	0
5	Bb	301	A1A0P	4	0
5	Bf	306	A1A0P	2	0
5	Bi	304	A1A0P	8	0
5	Ci	301	A1A0P	3	0
5	Bi	308	A1A0P	42	0
5	Af	502	A1A0P	17	0
5	Bi	301	A1A0P	9	0
5	Bc	308	A1A0P	42	0
5	Bd	309	A1A0P	41	0

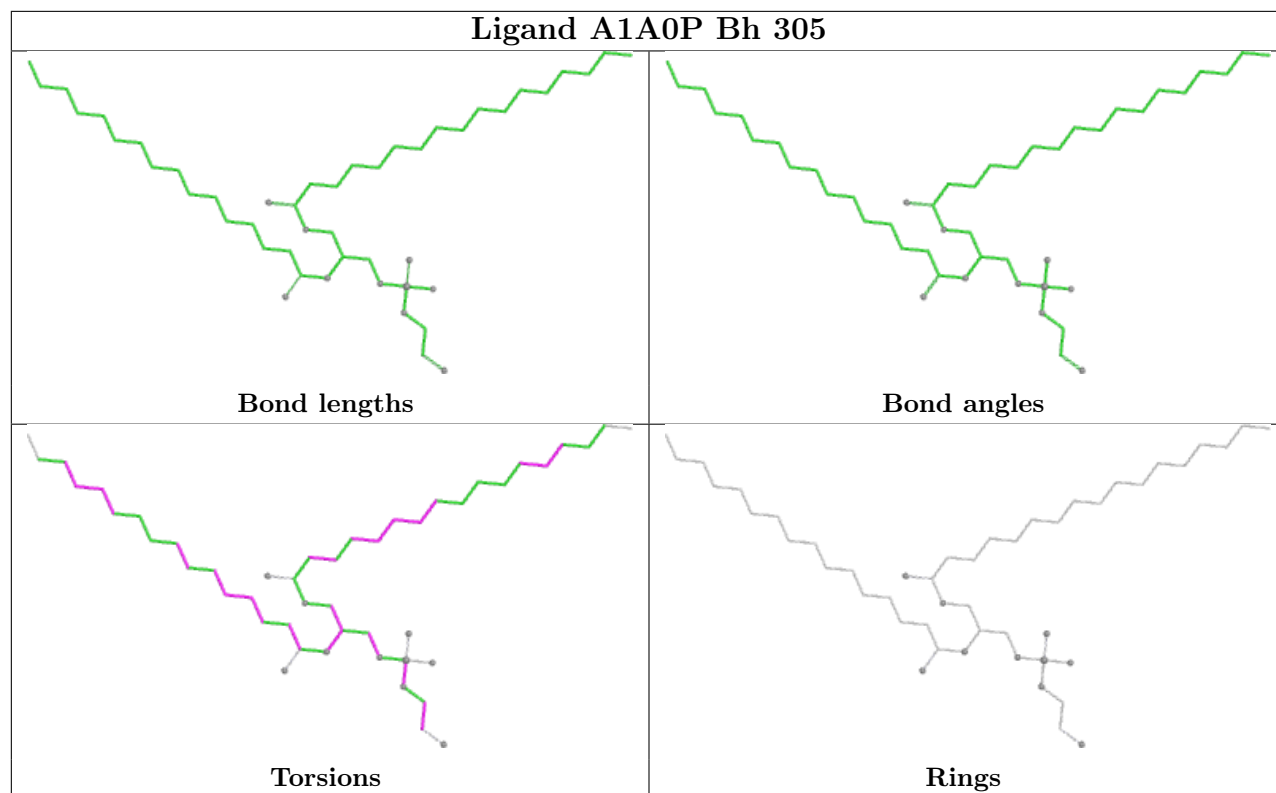
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

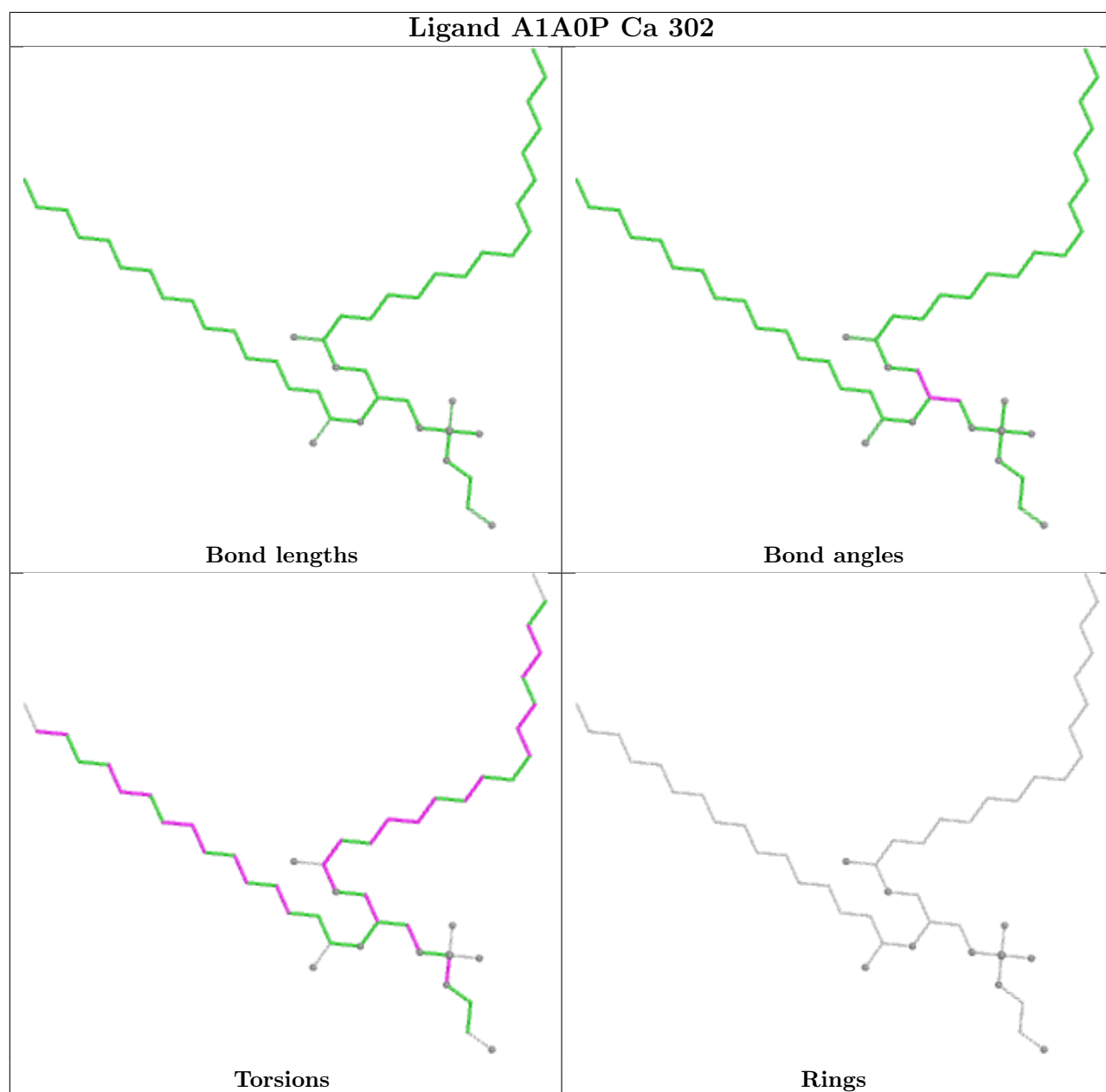


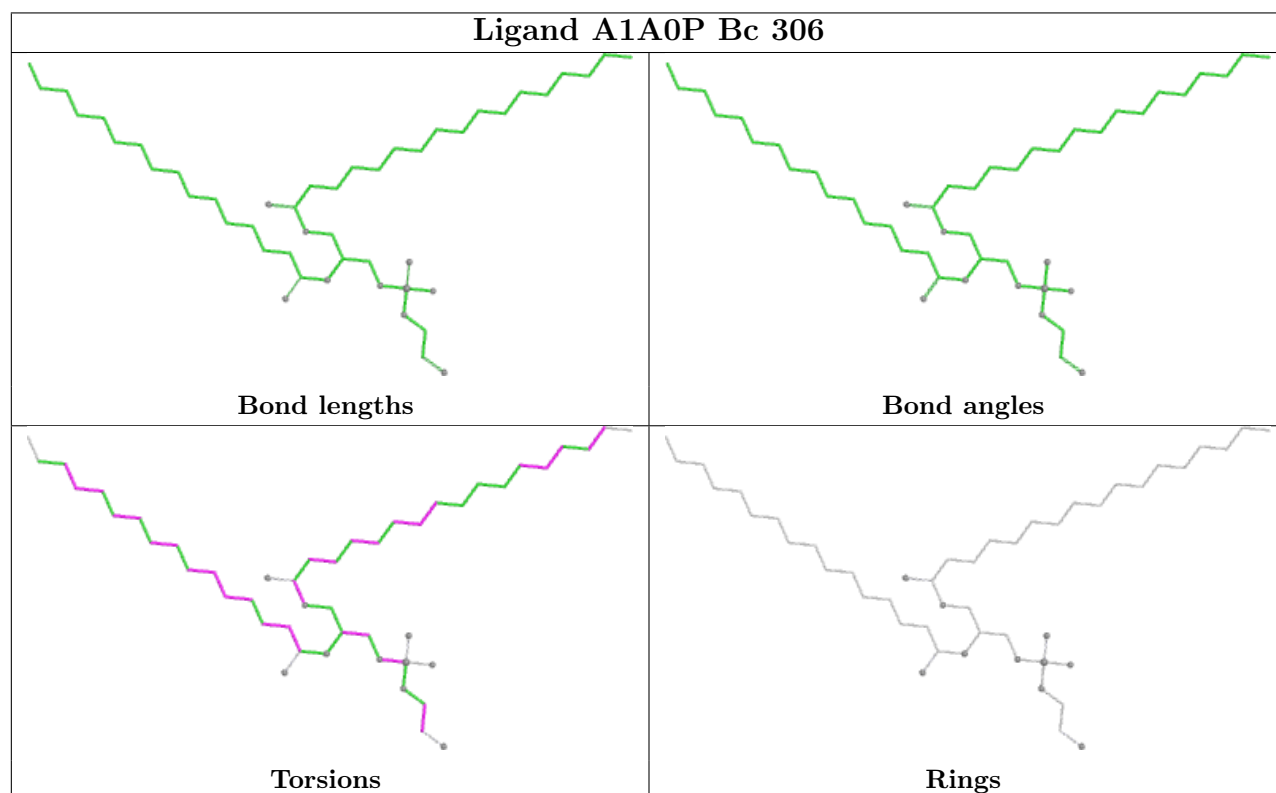
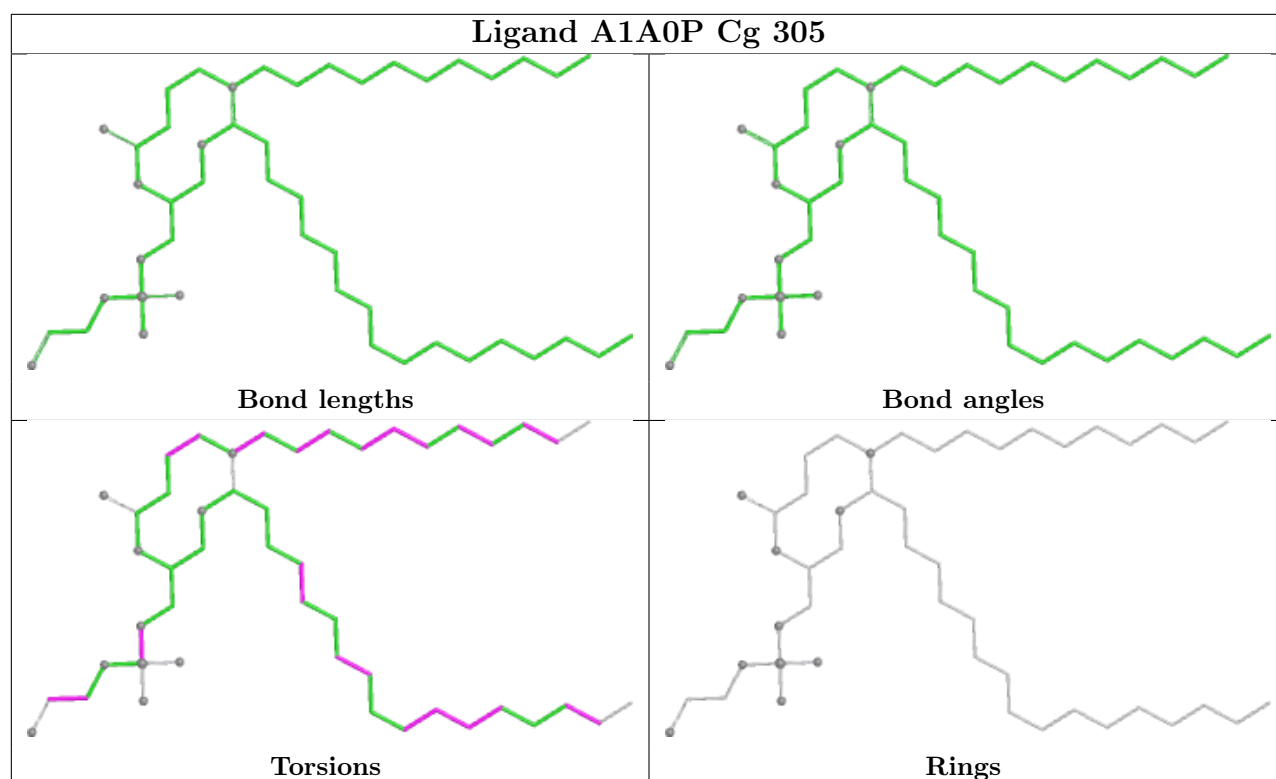


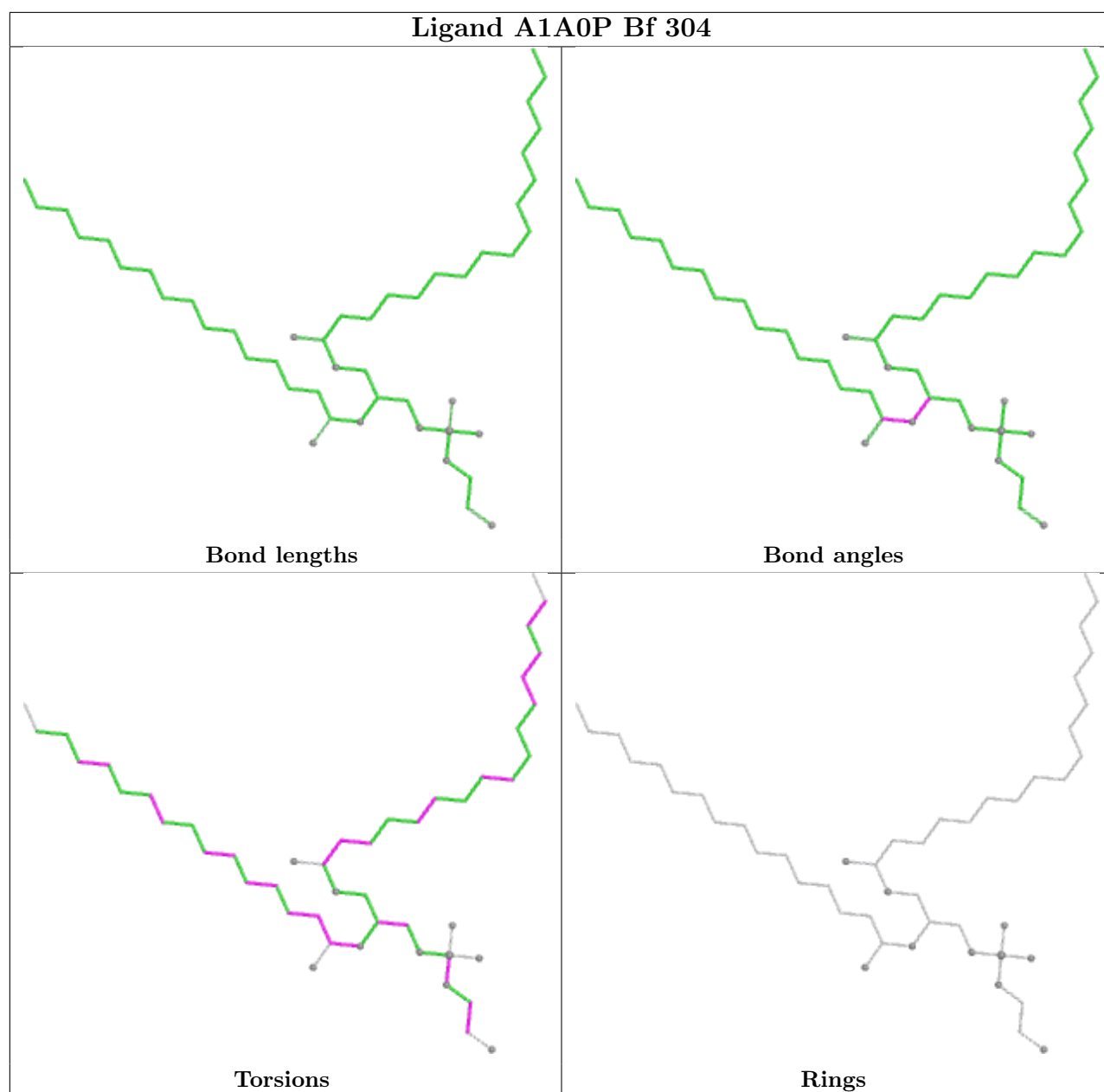


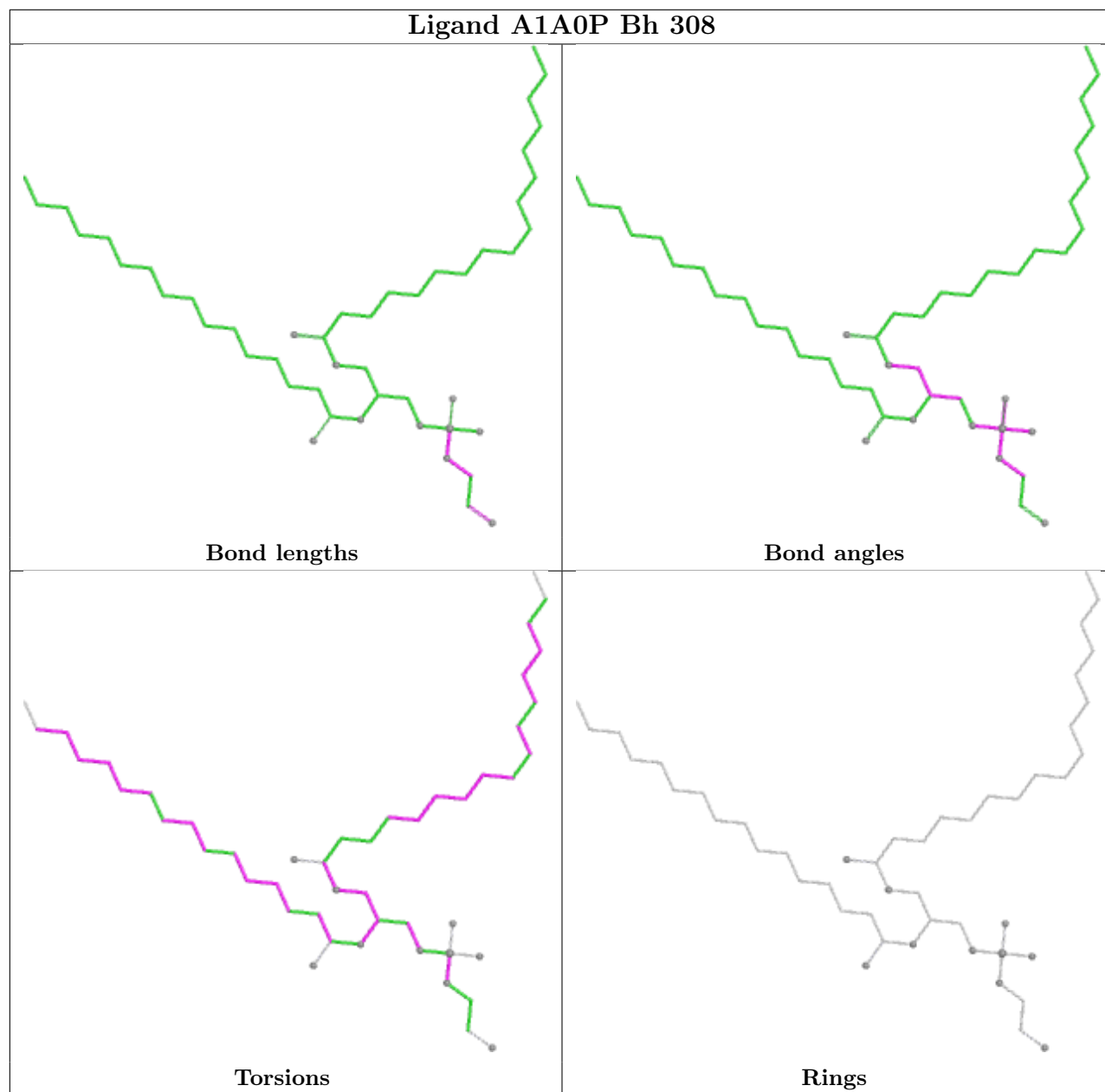


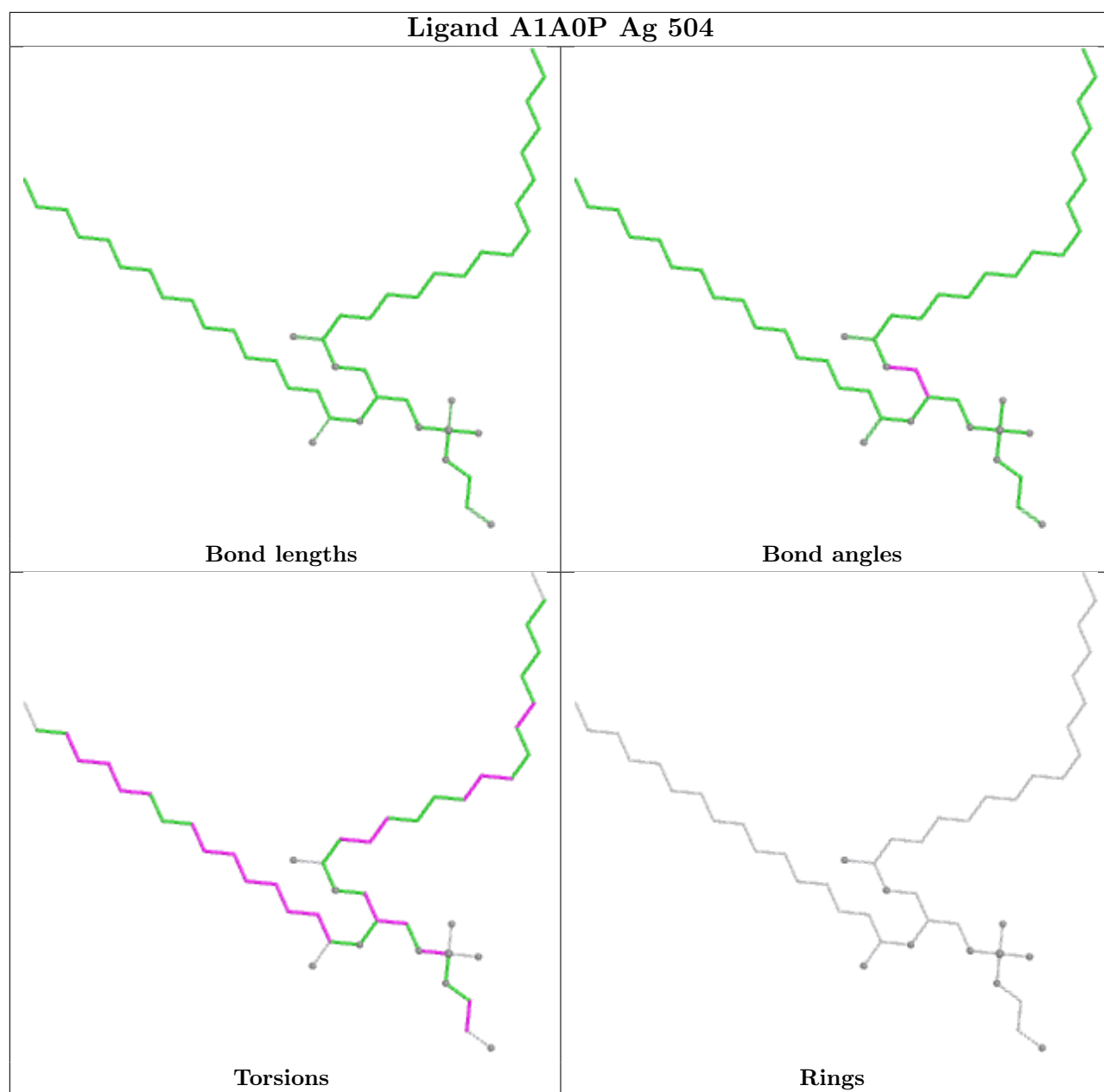


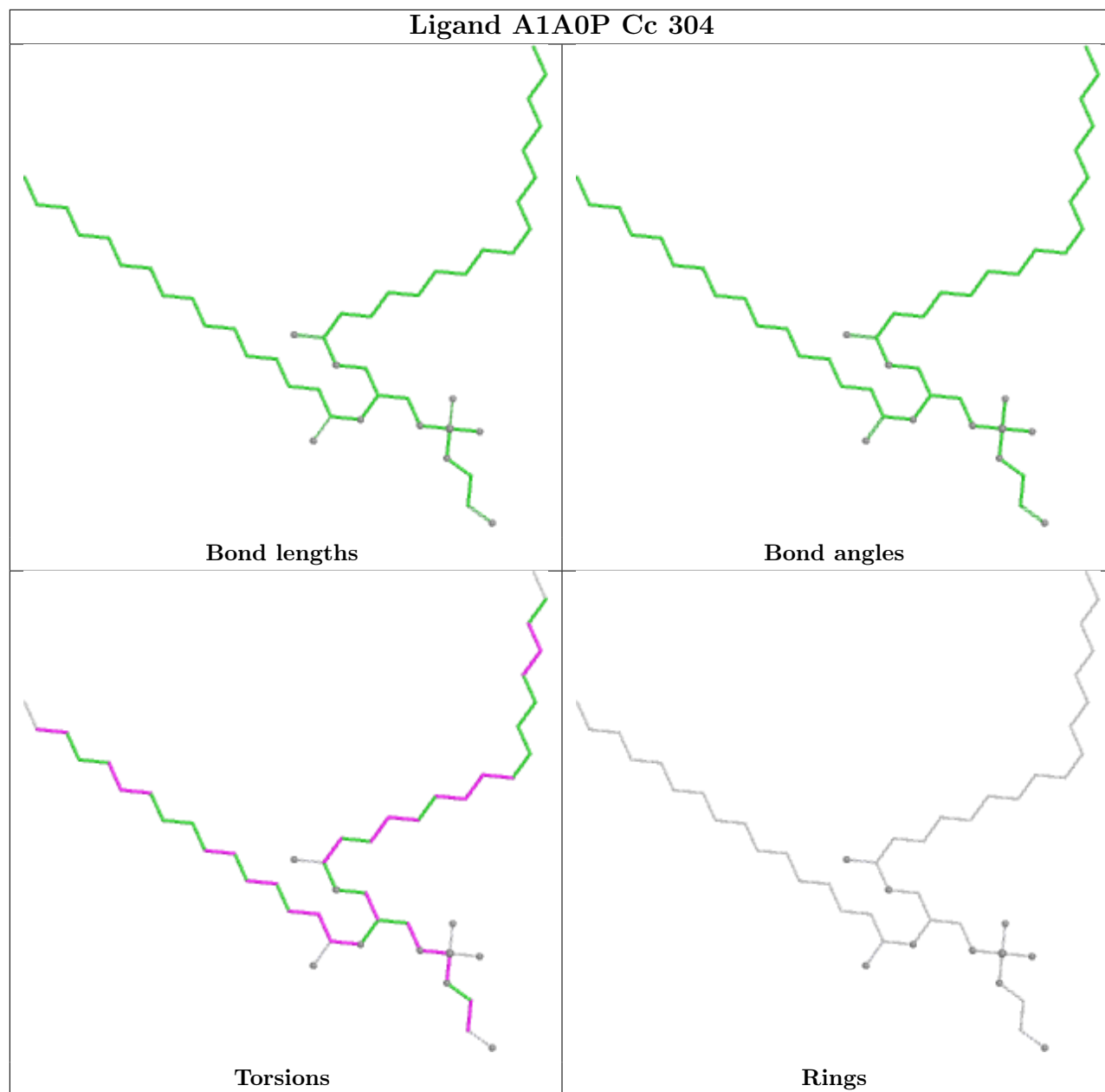


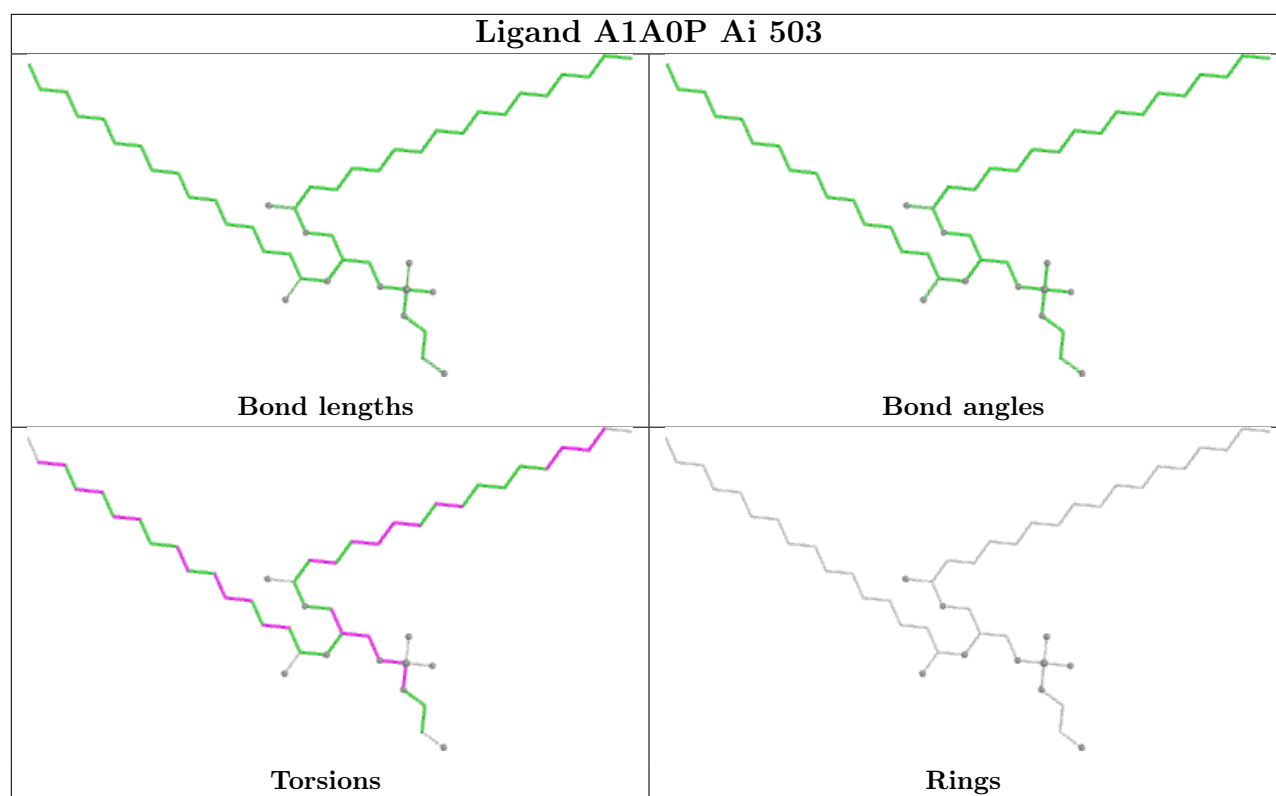


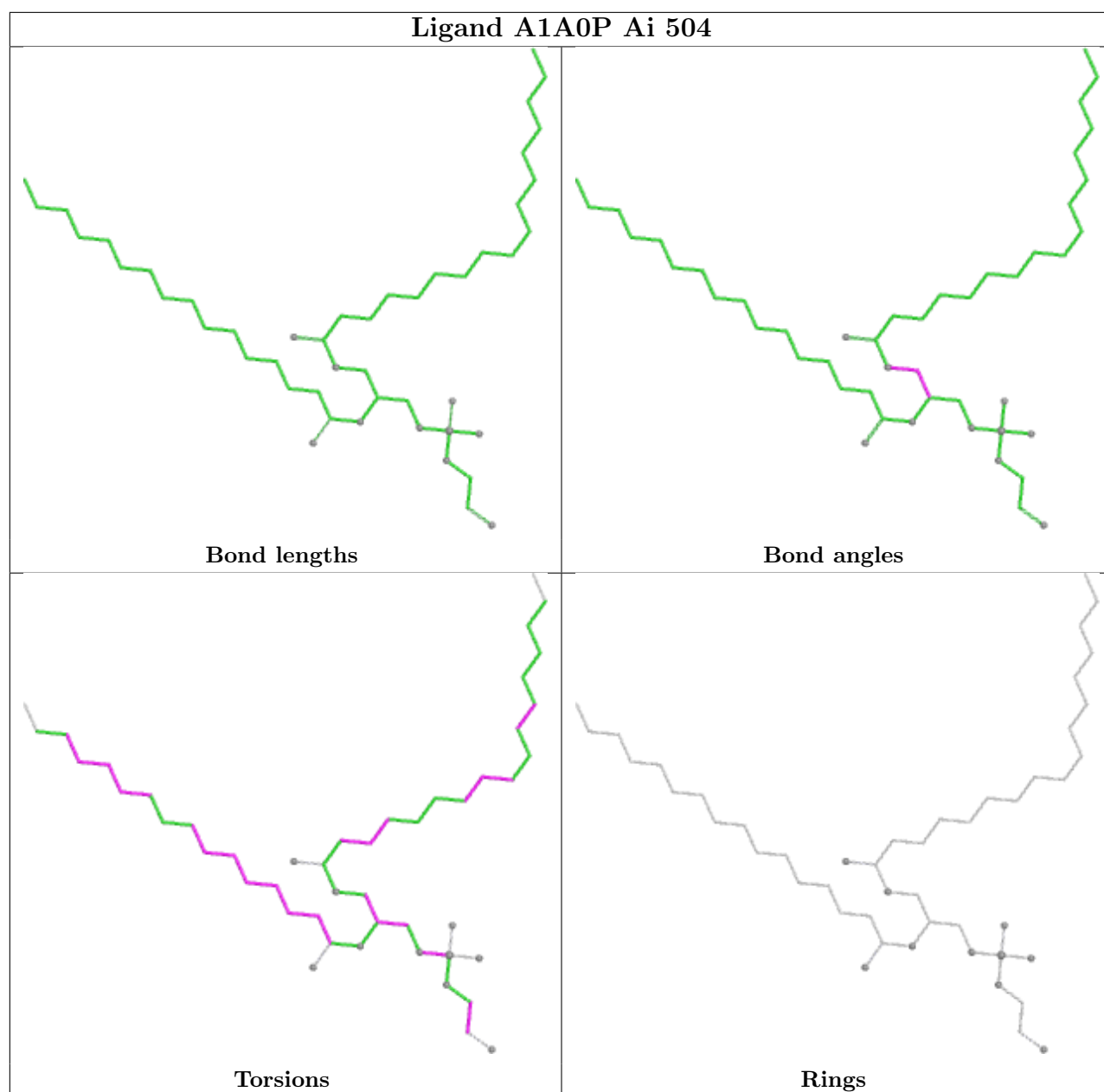


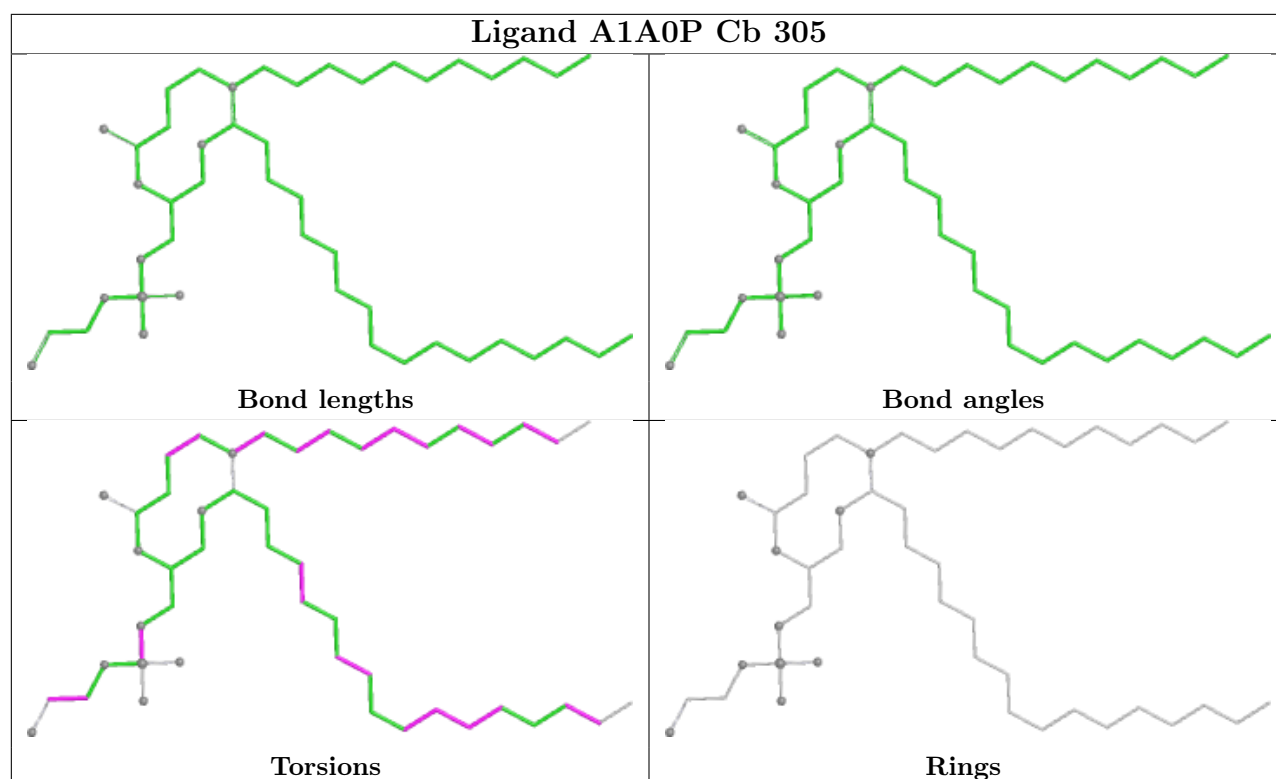


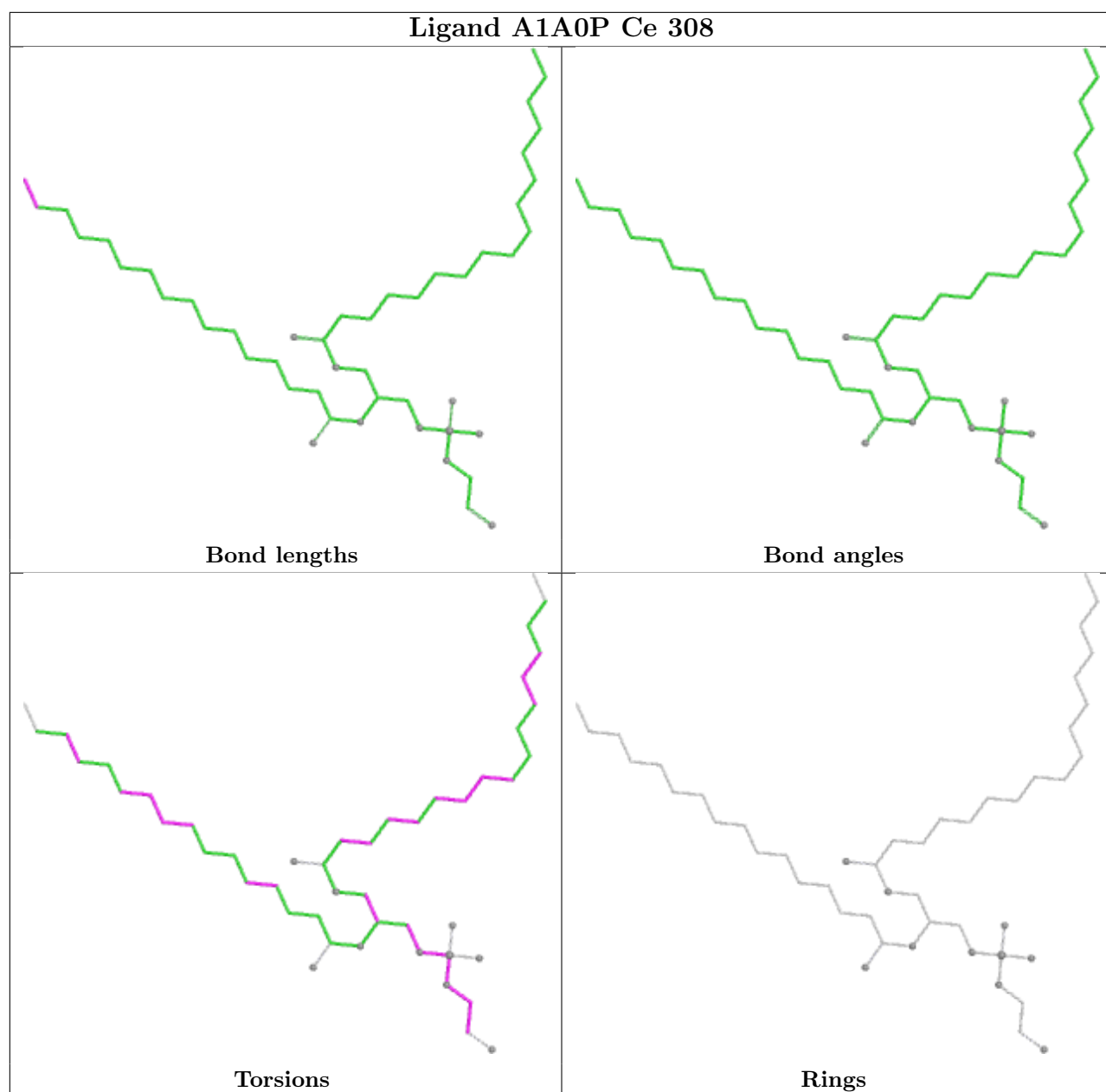


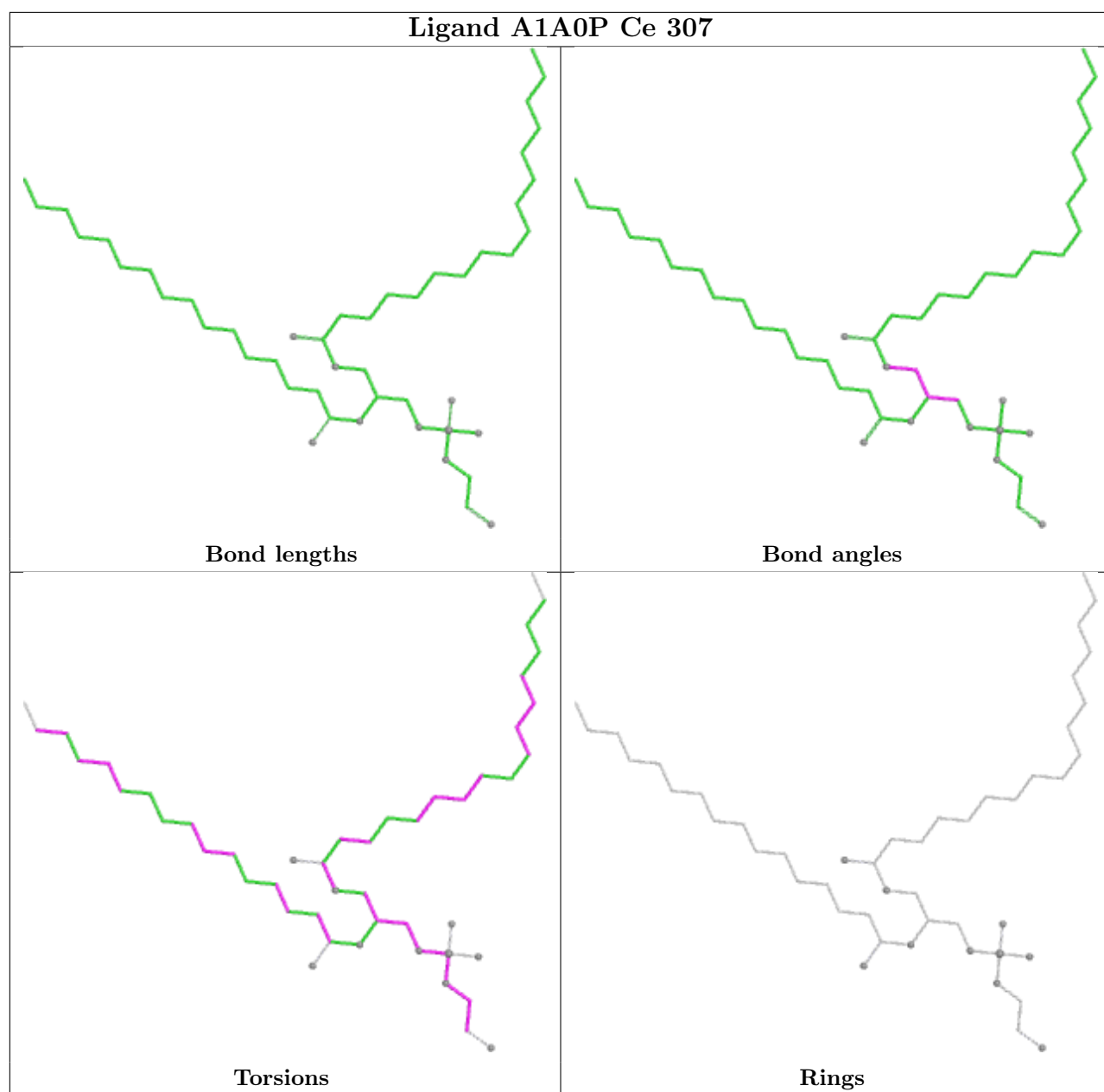


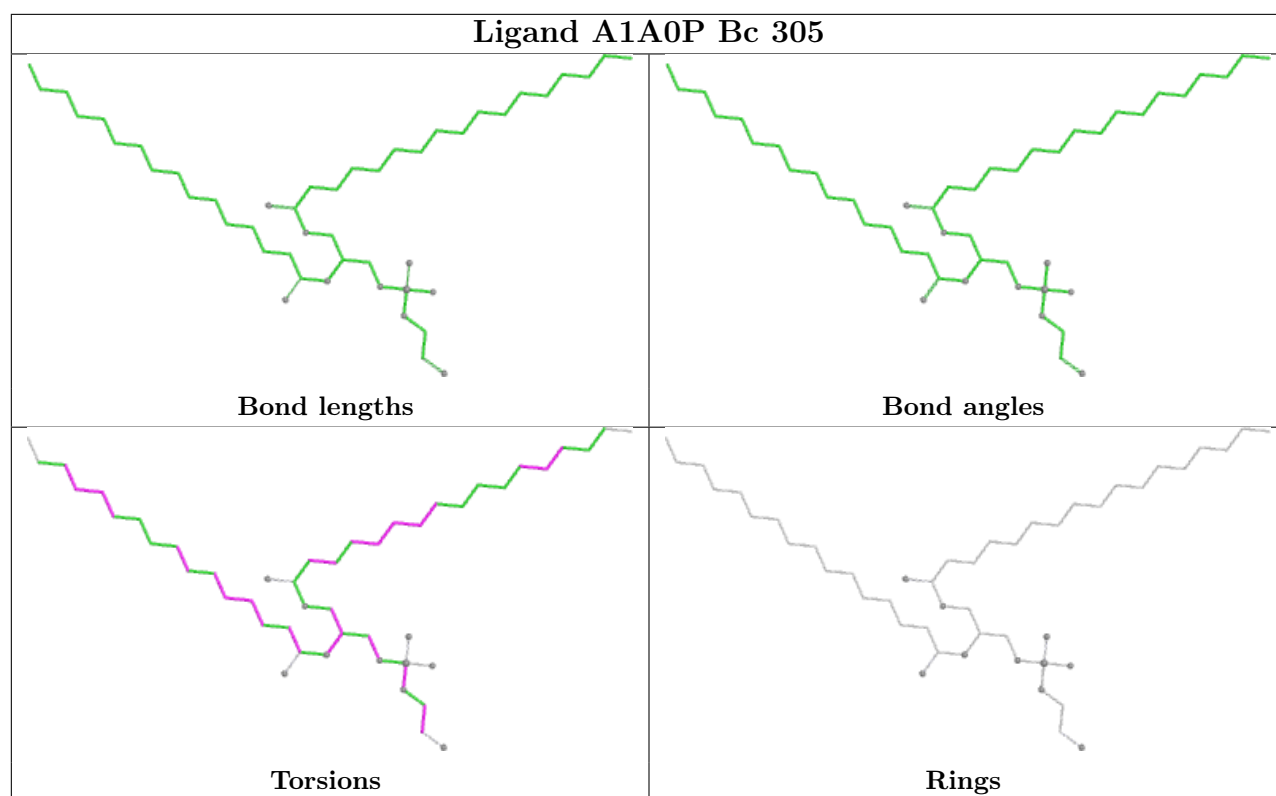


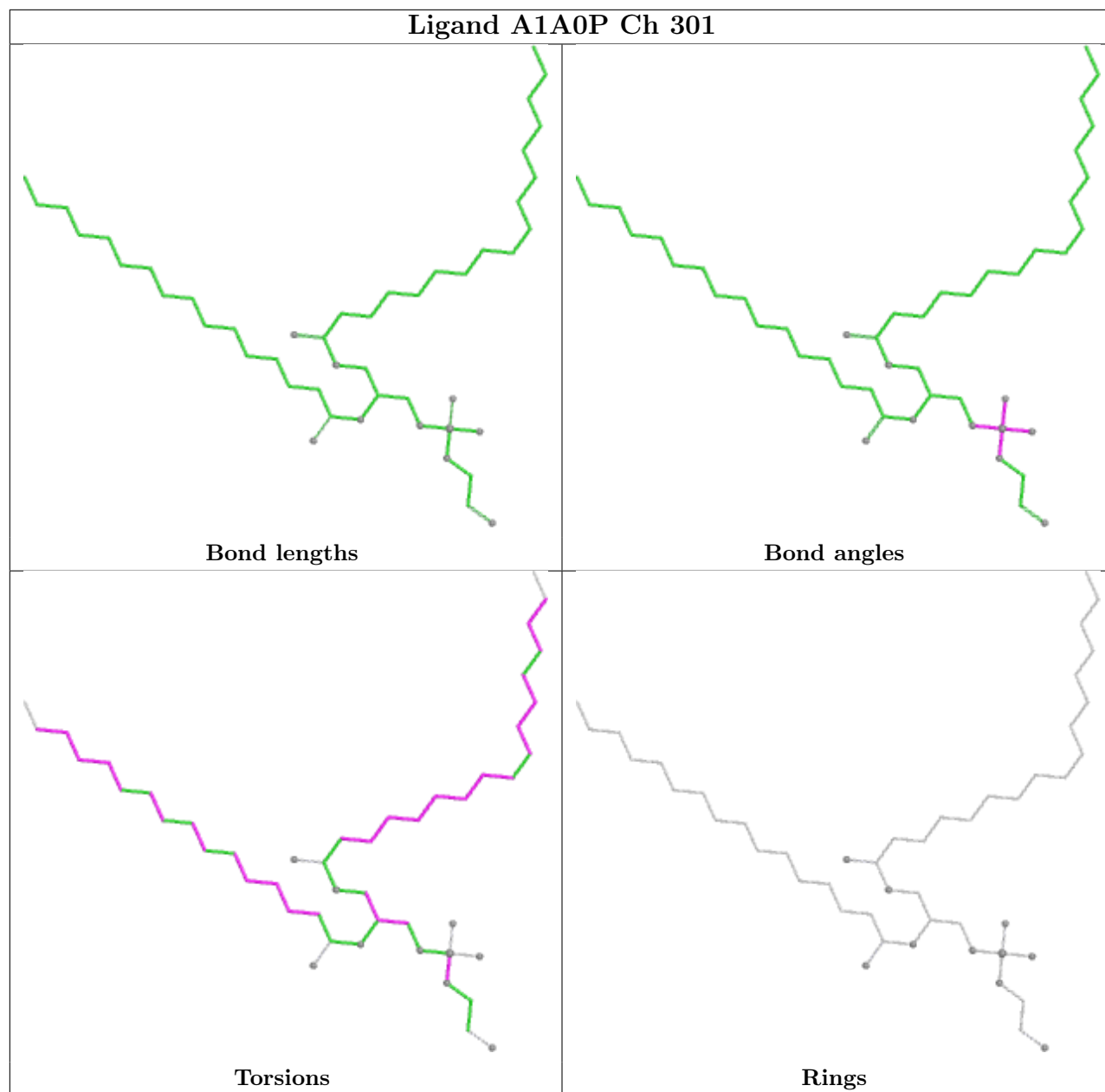


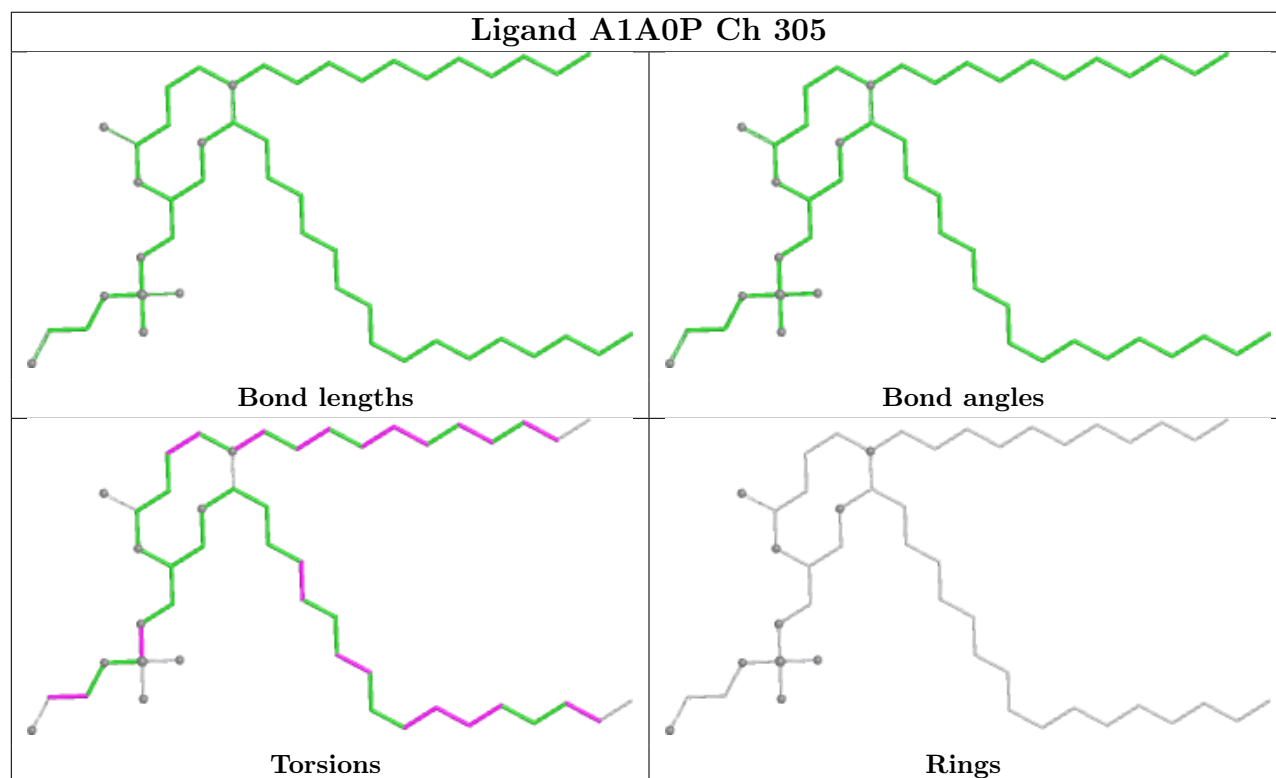
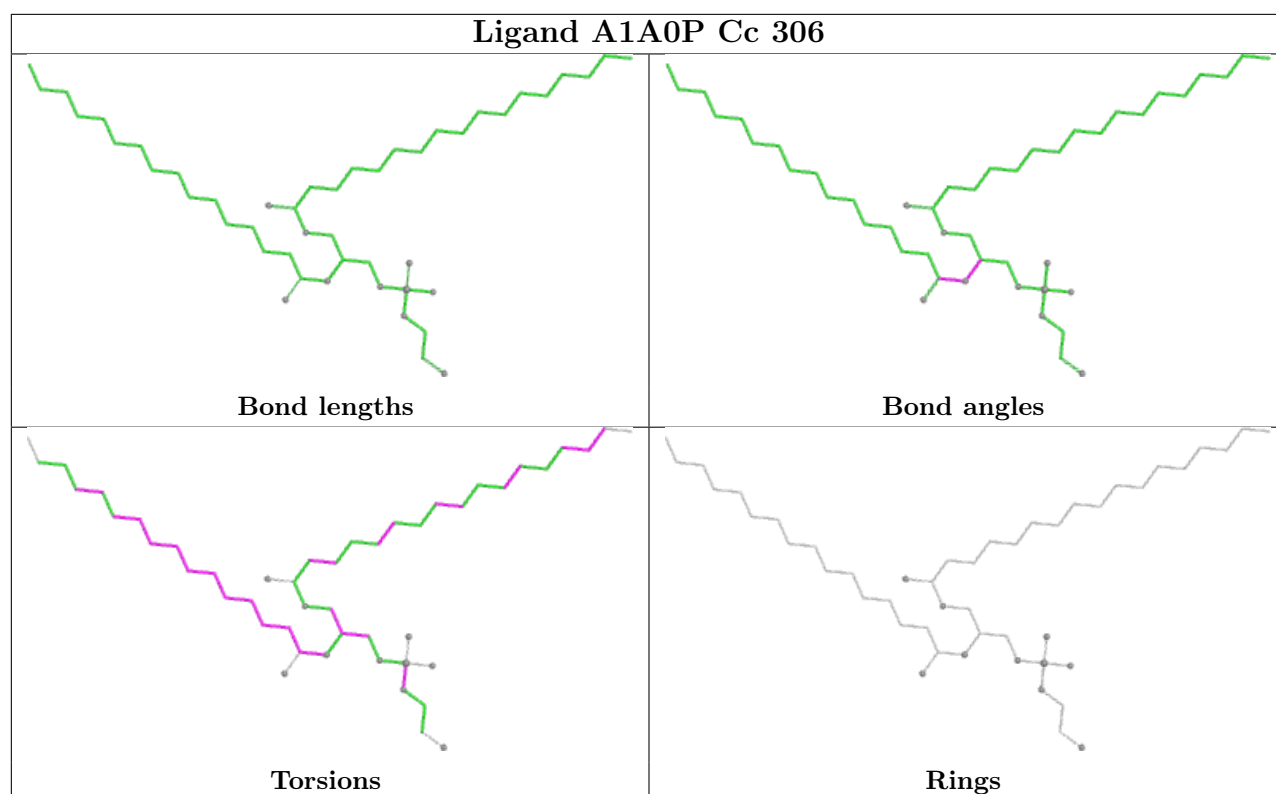


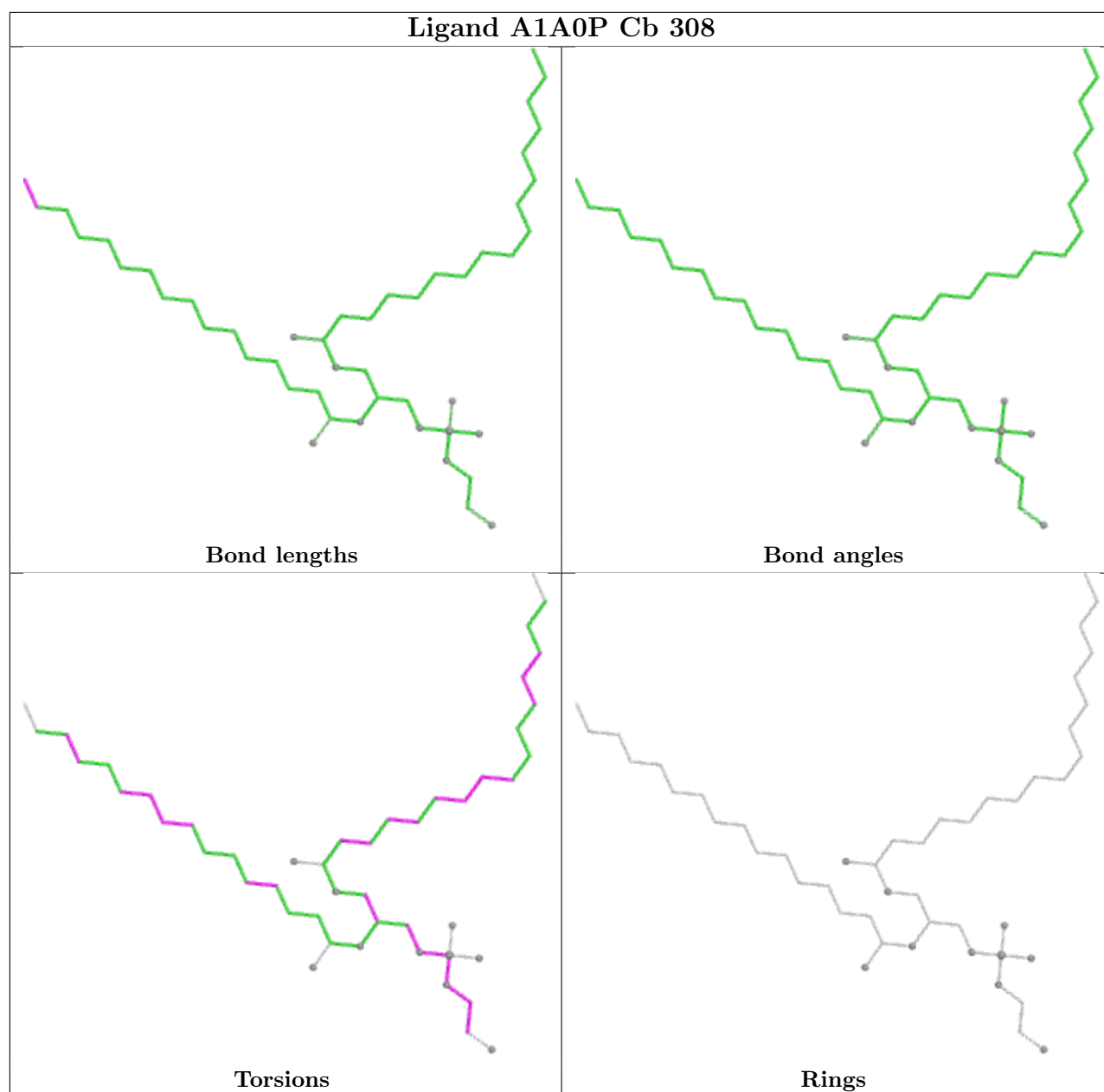


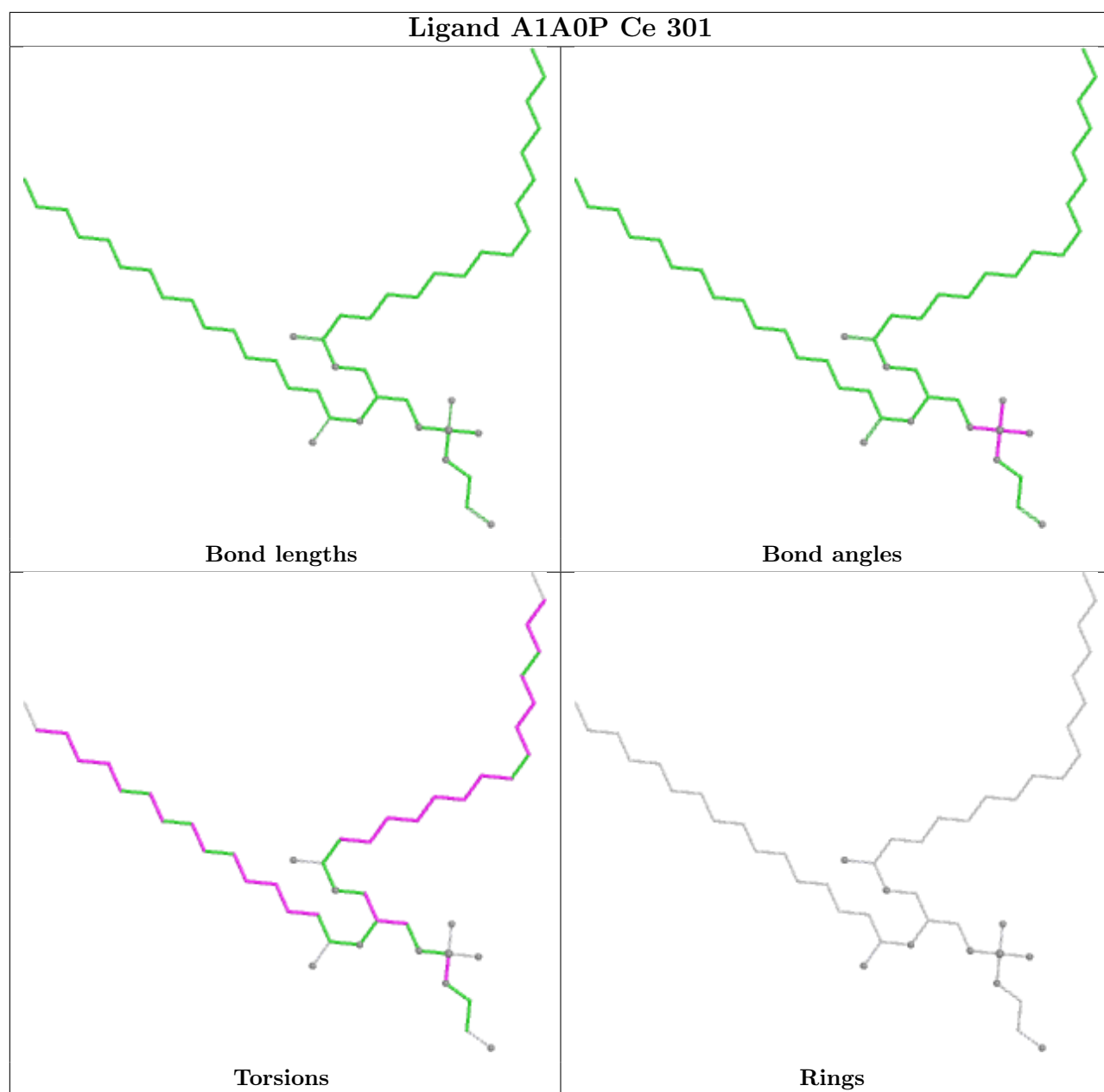


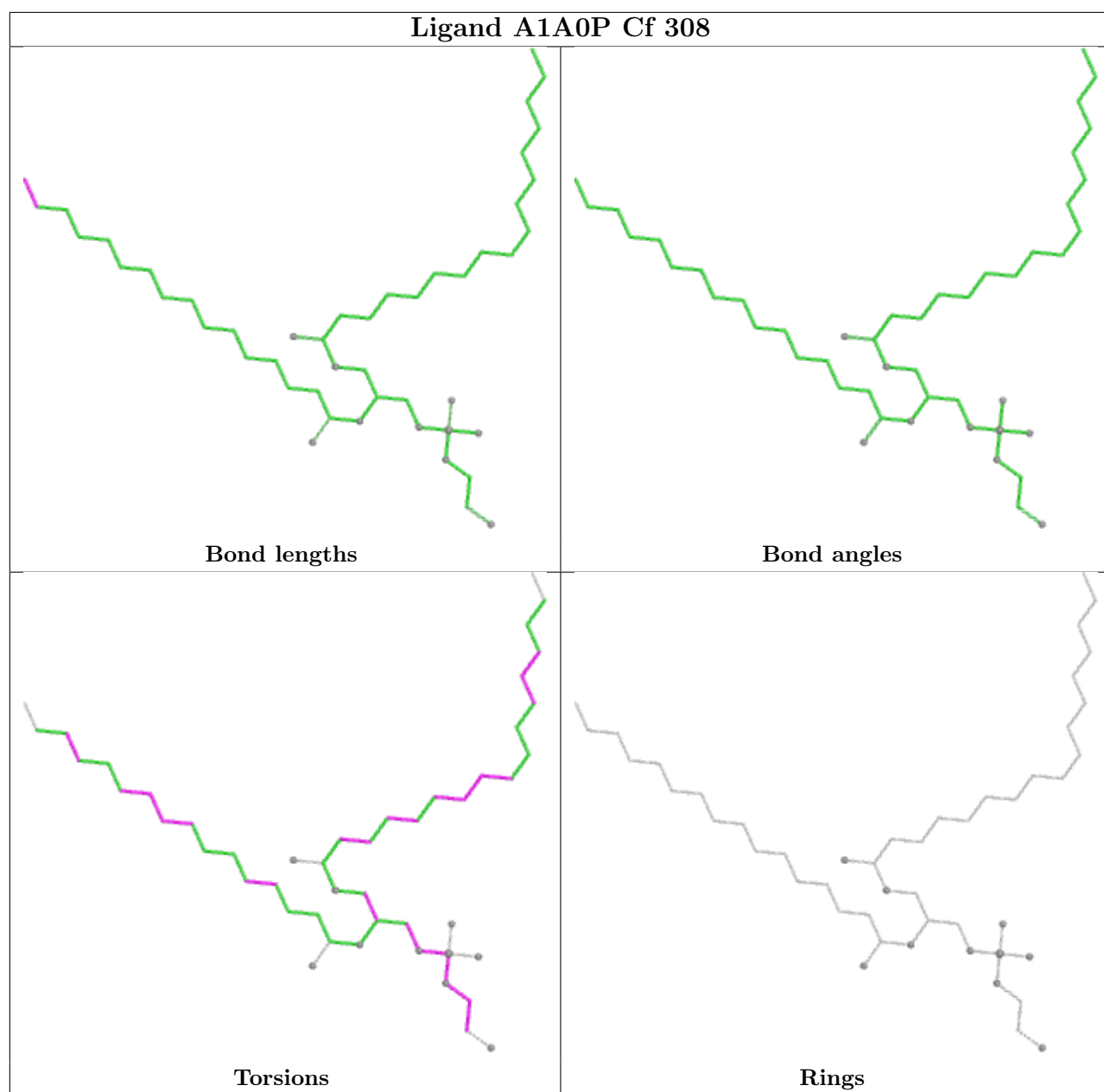


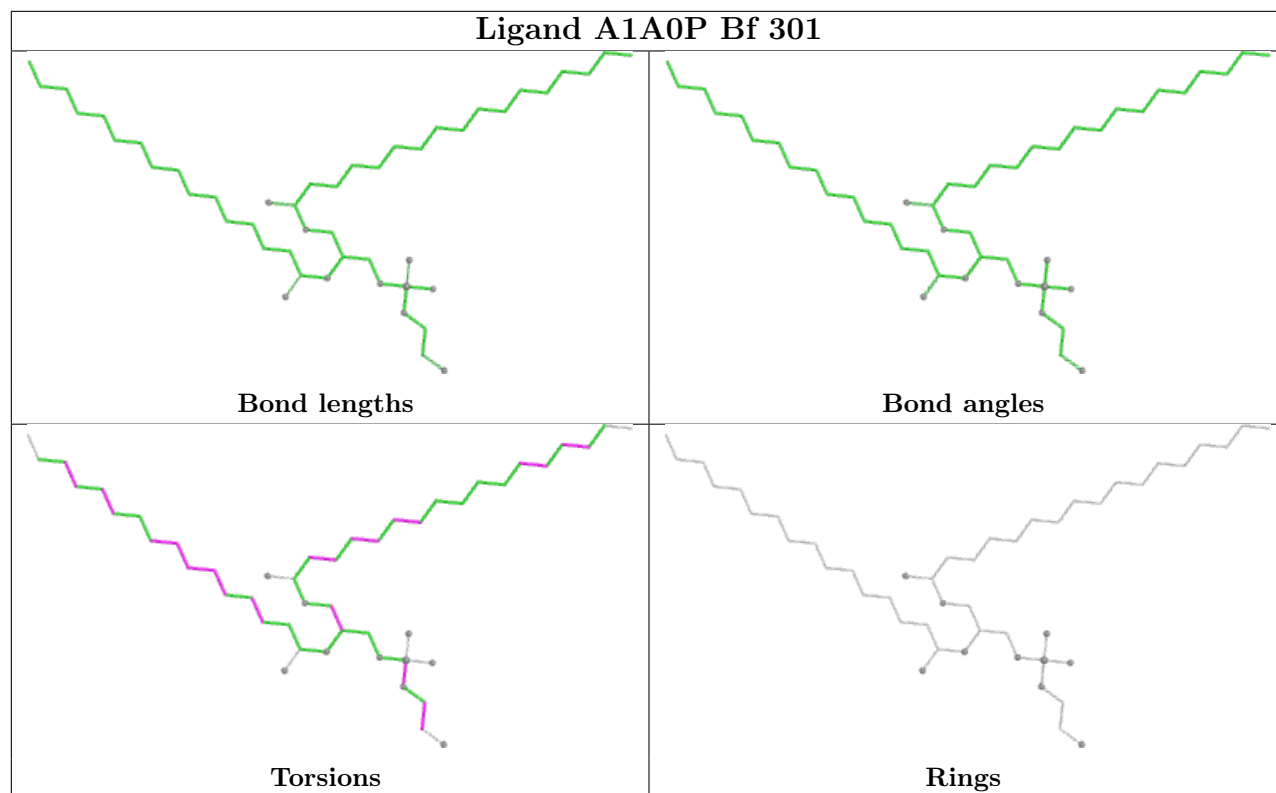


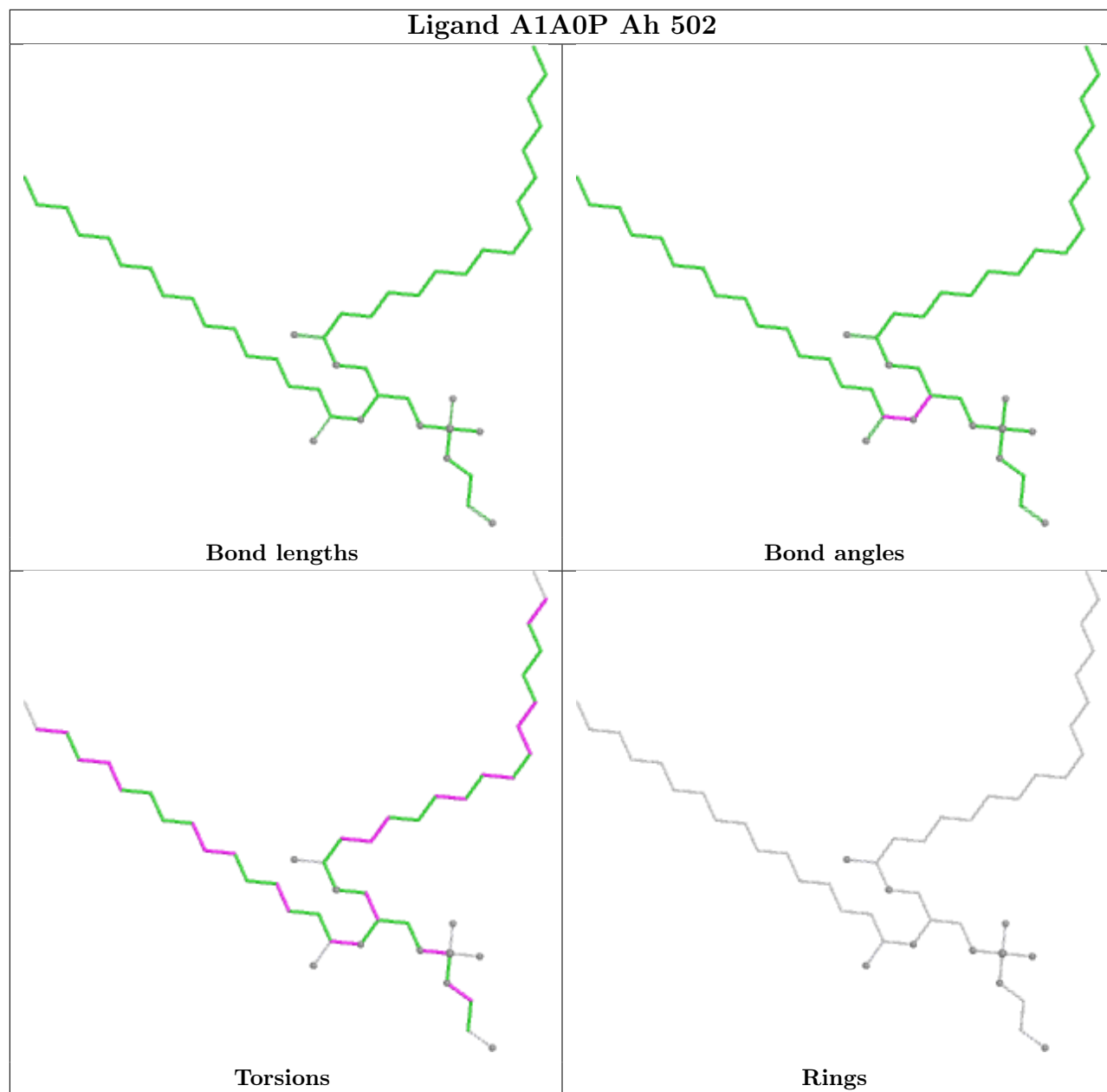


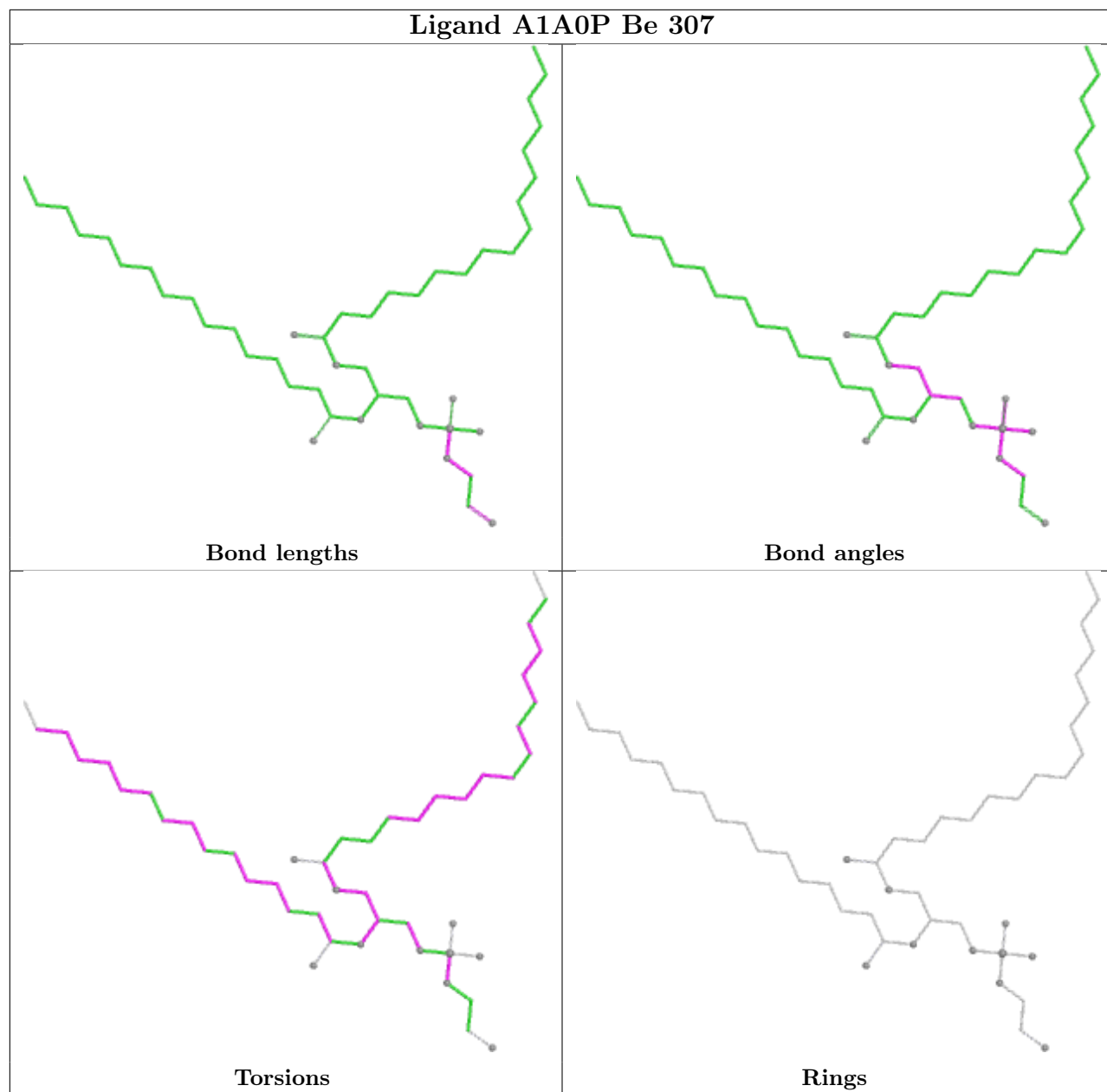


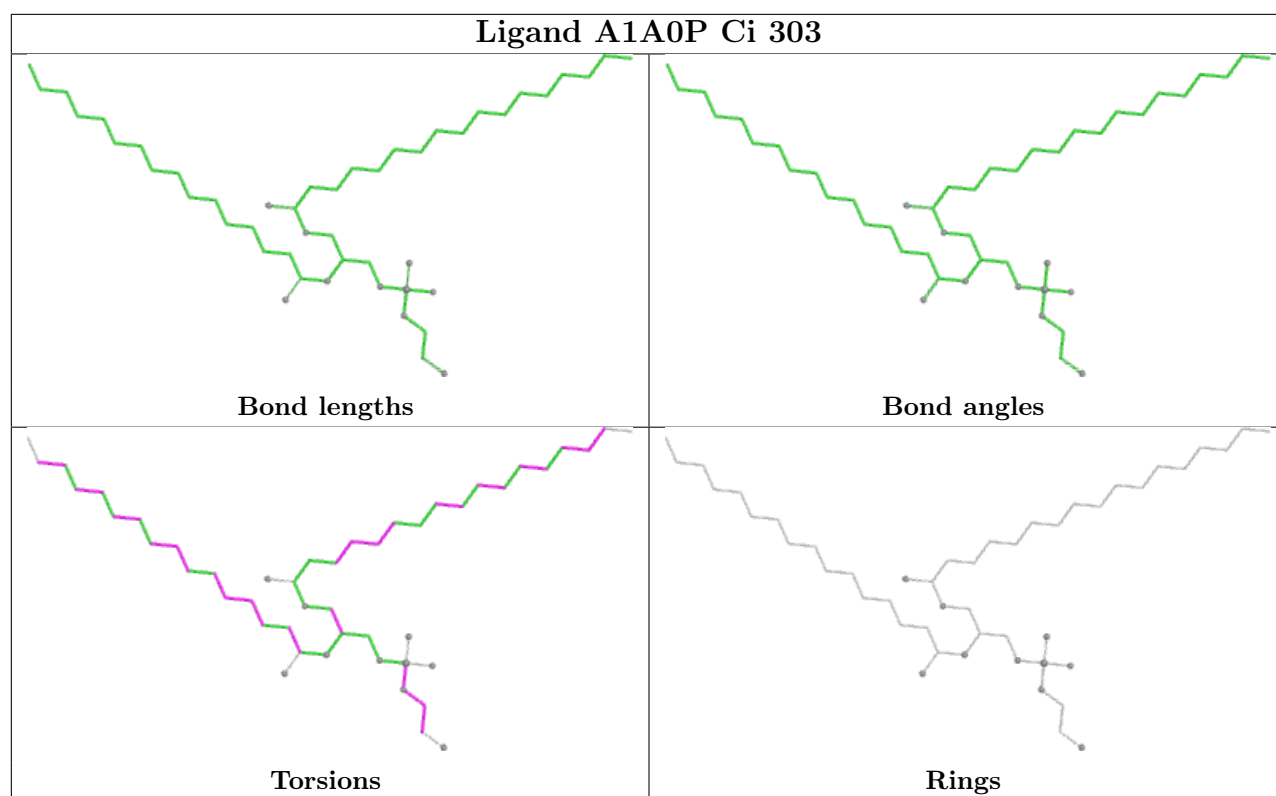






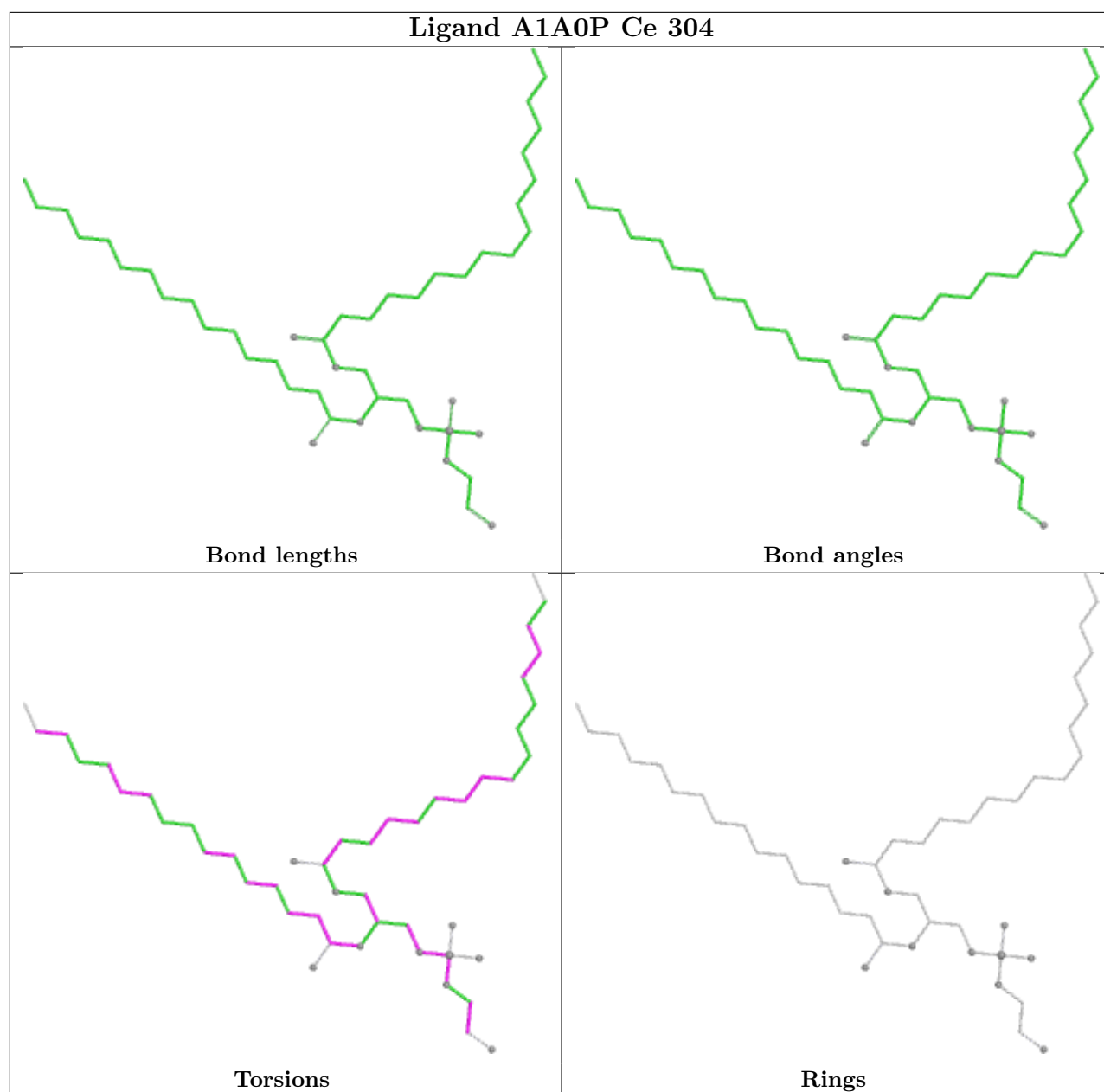


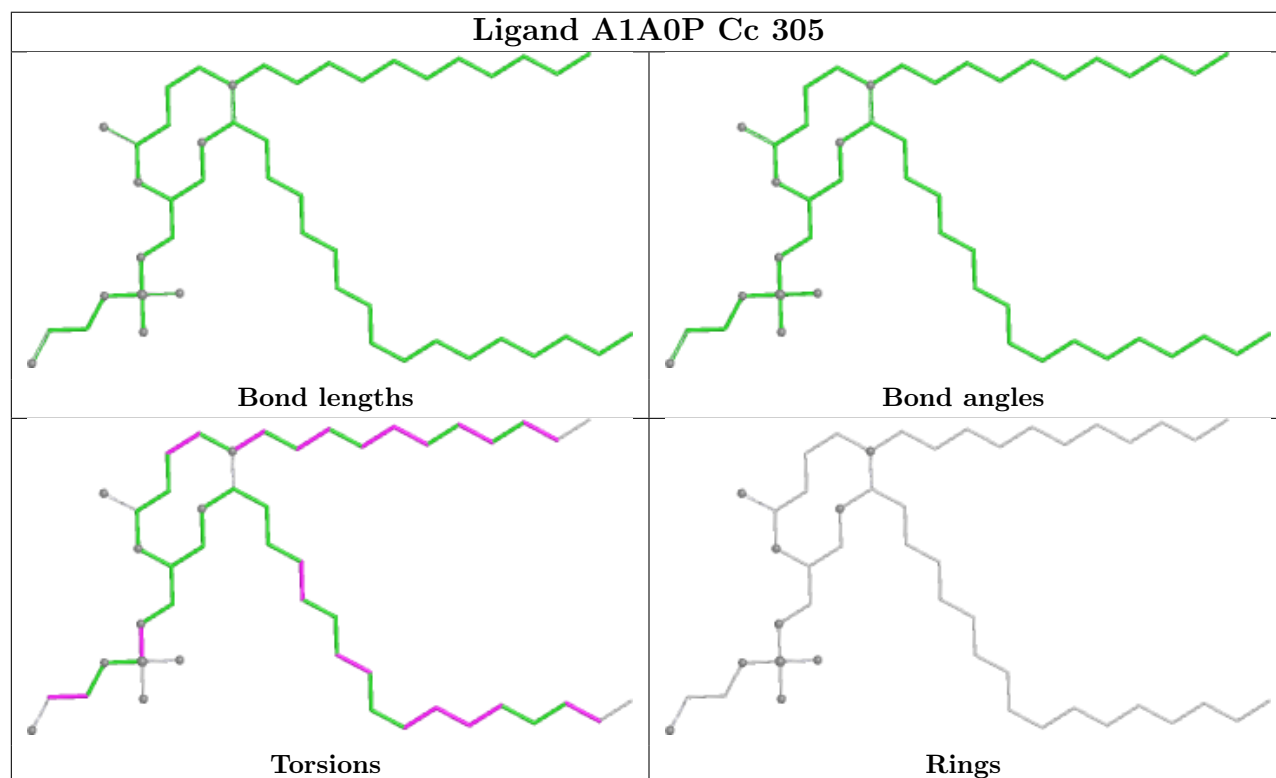
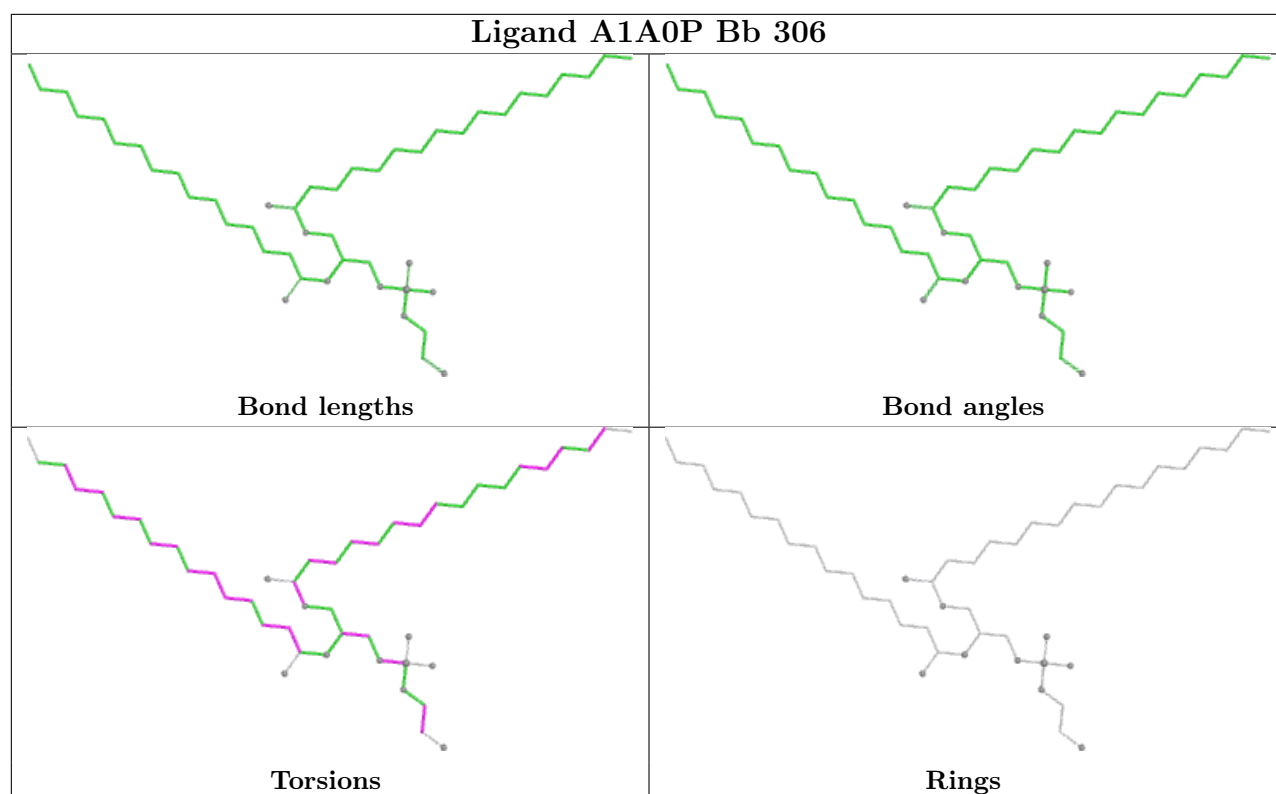


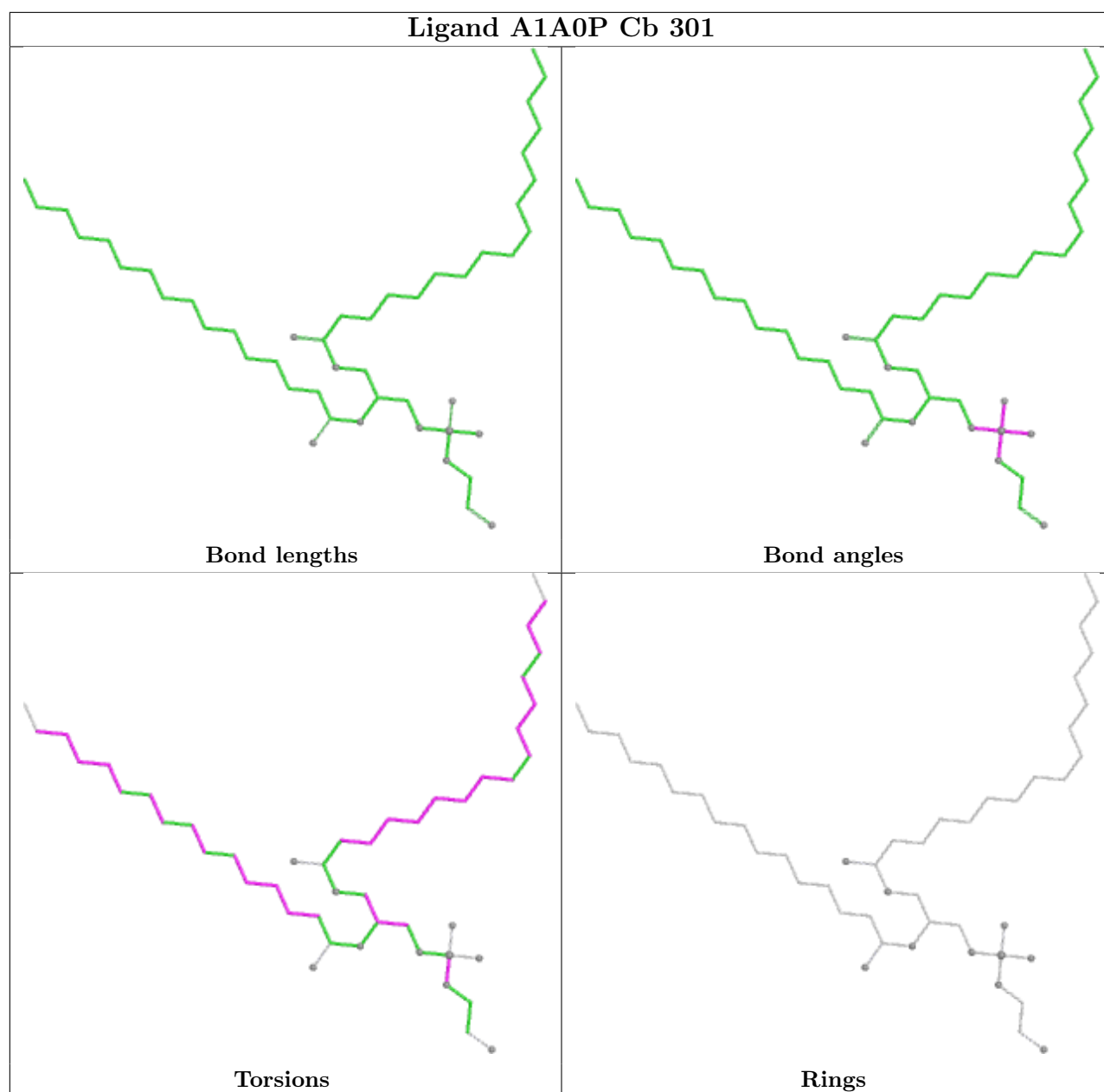


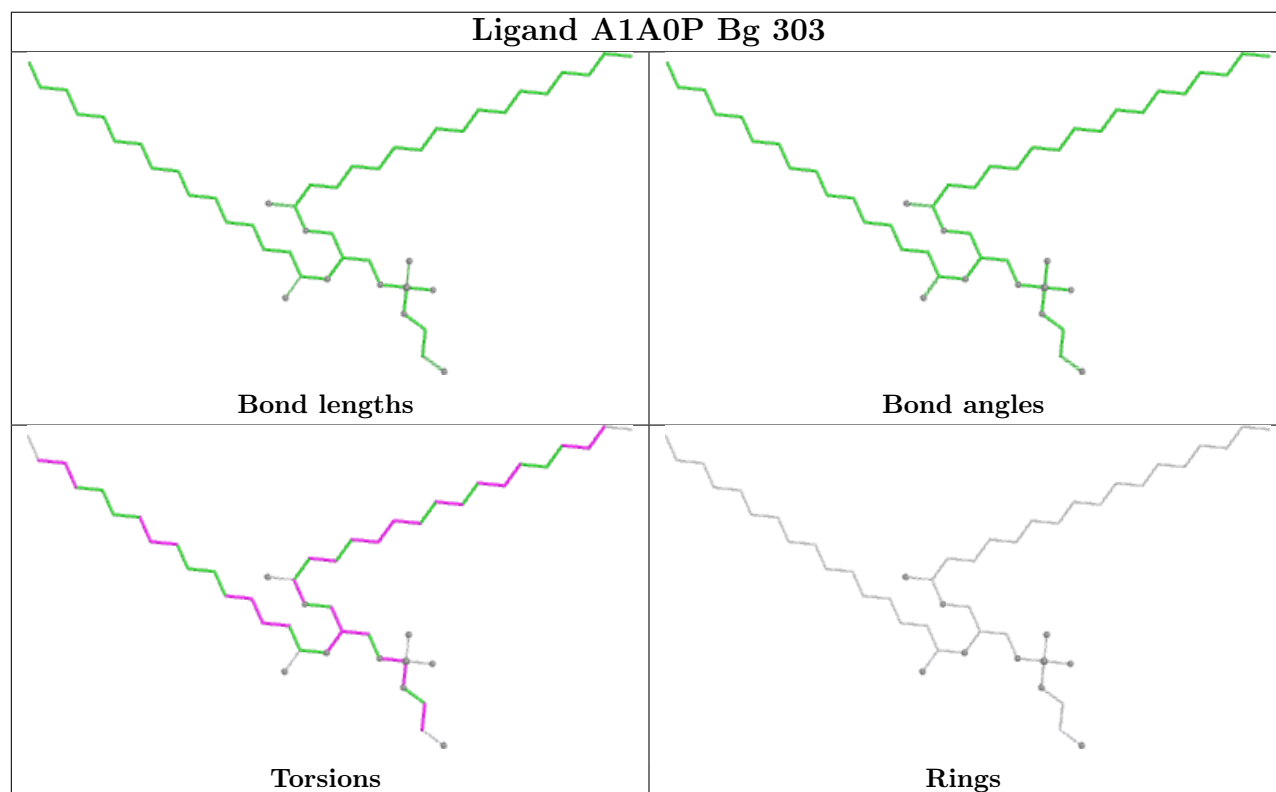
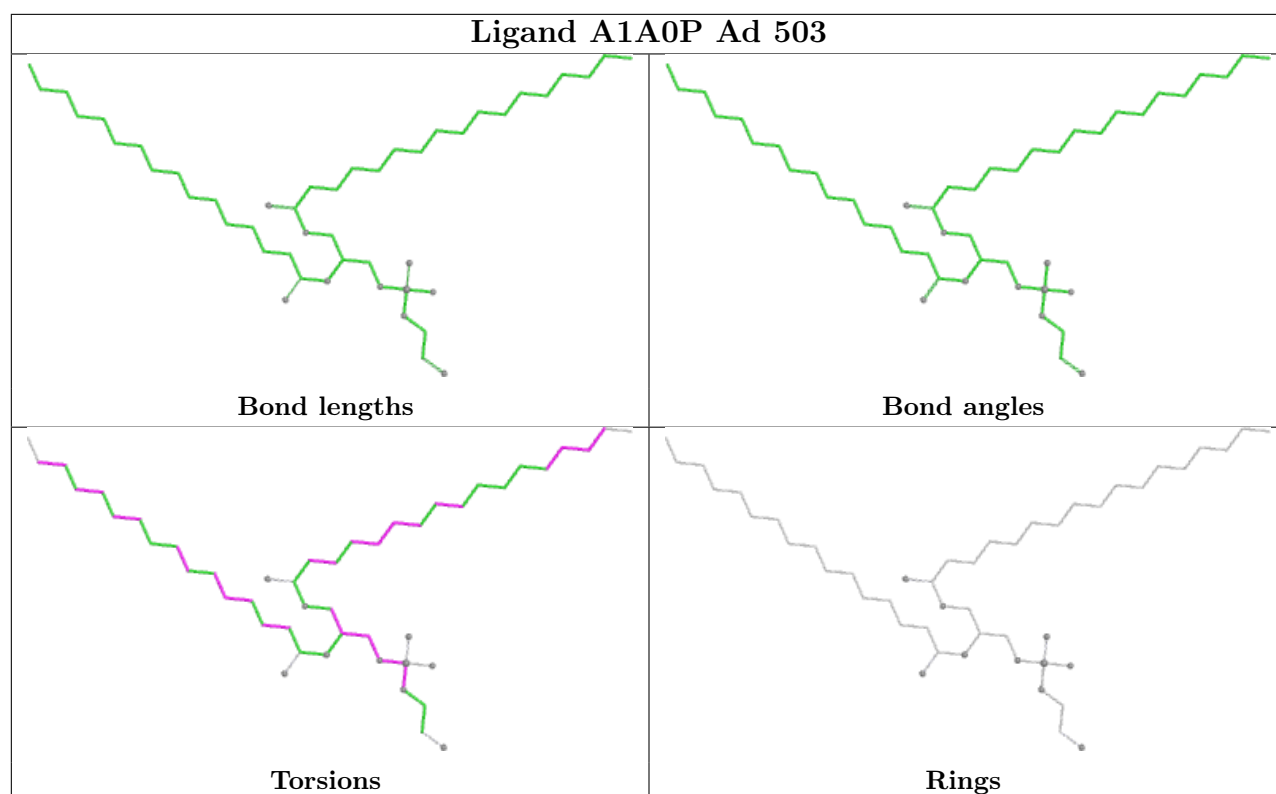
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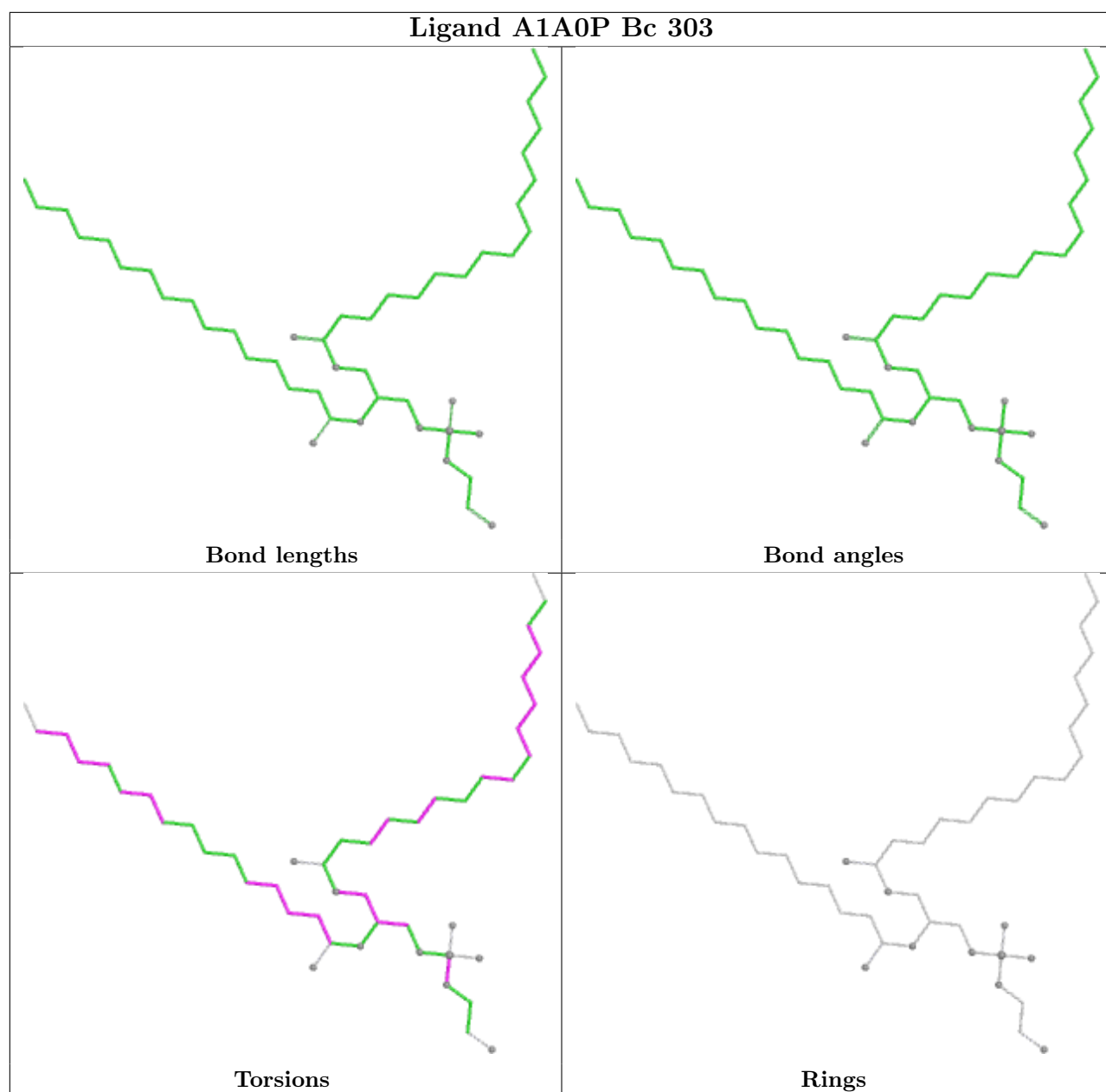
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Torsions	Rings

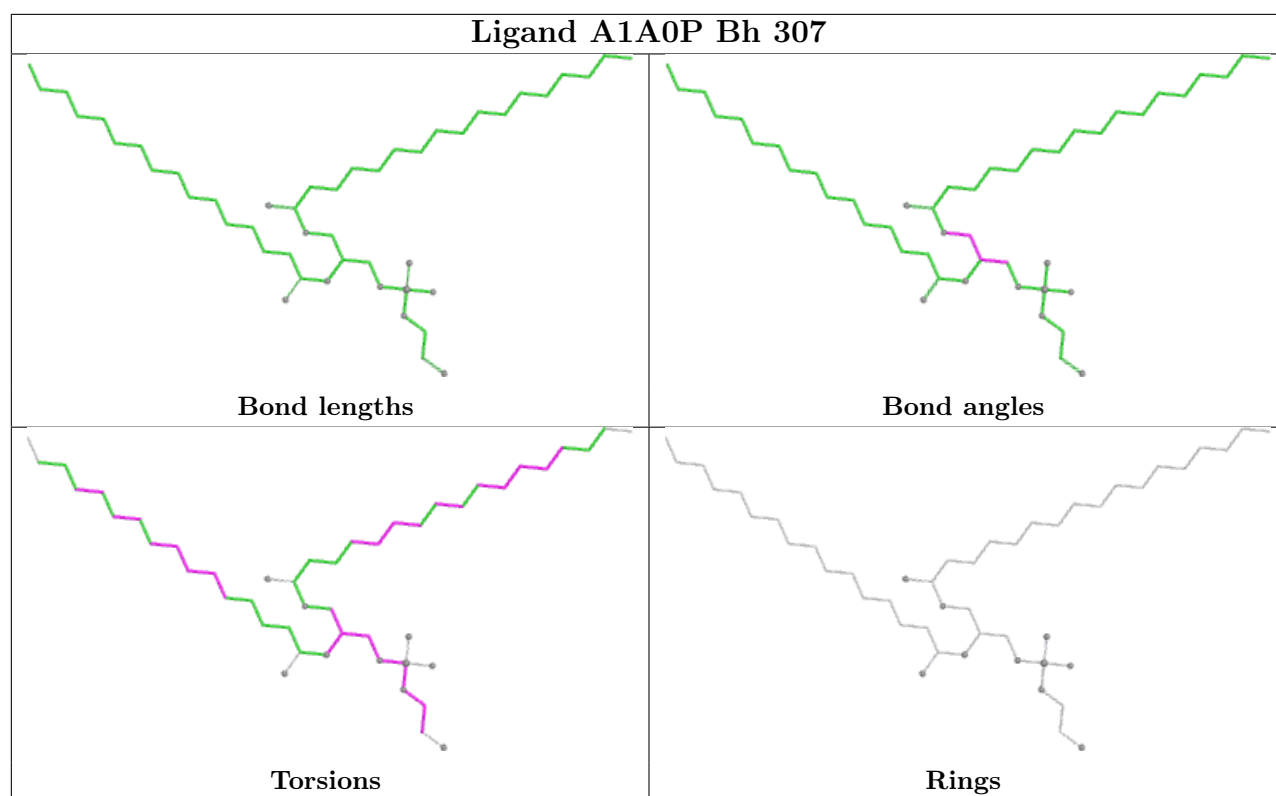


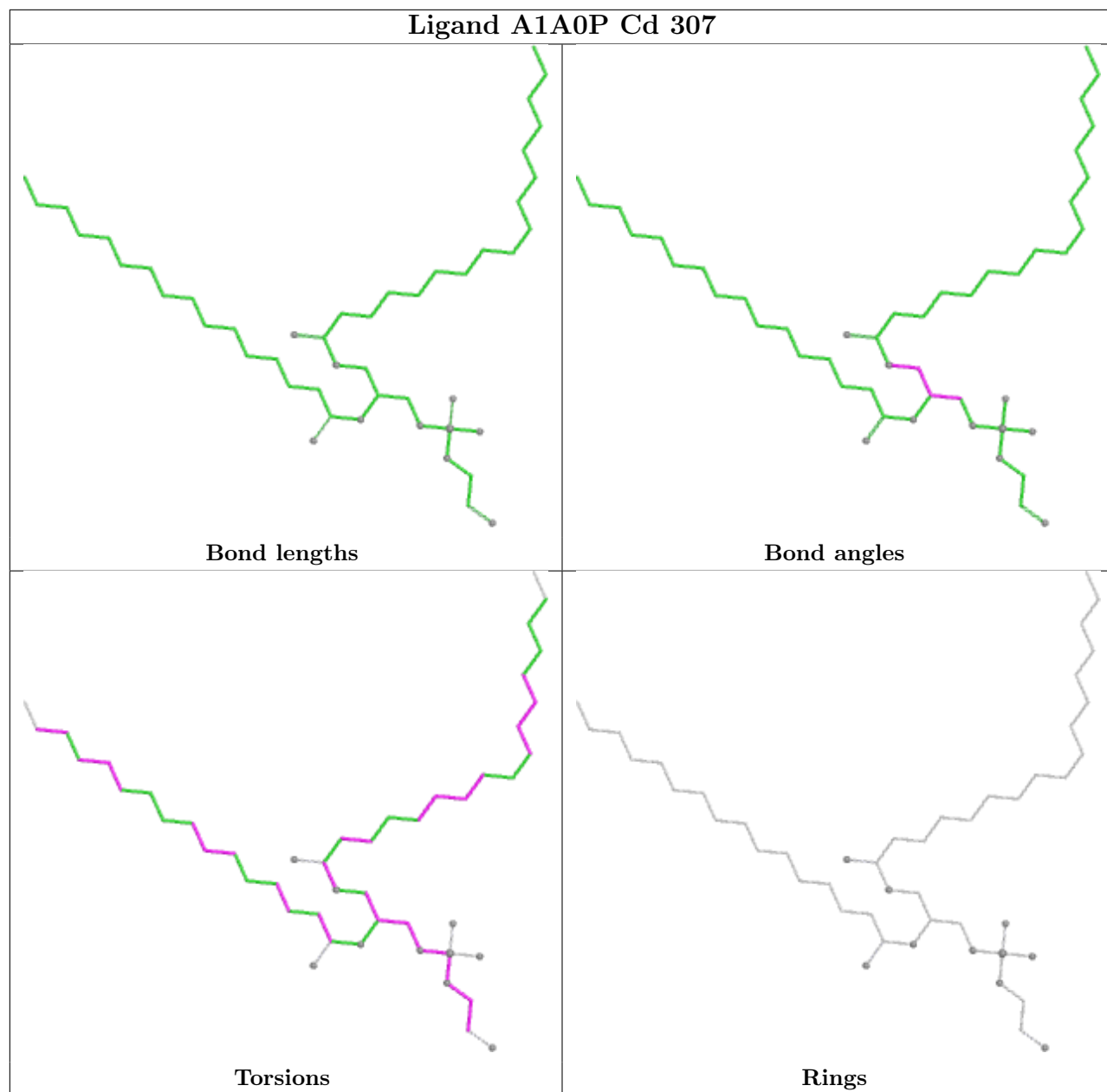


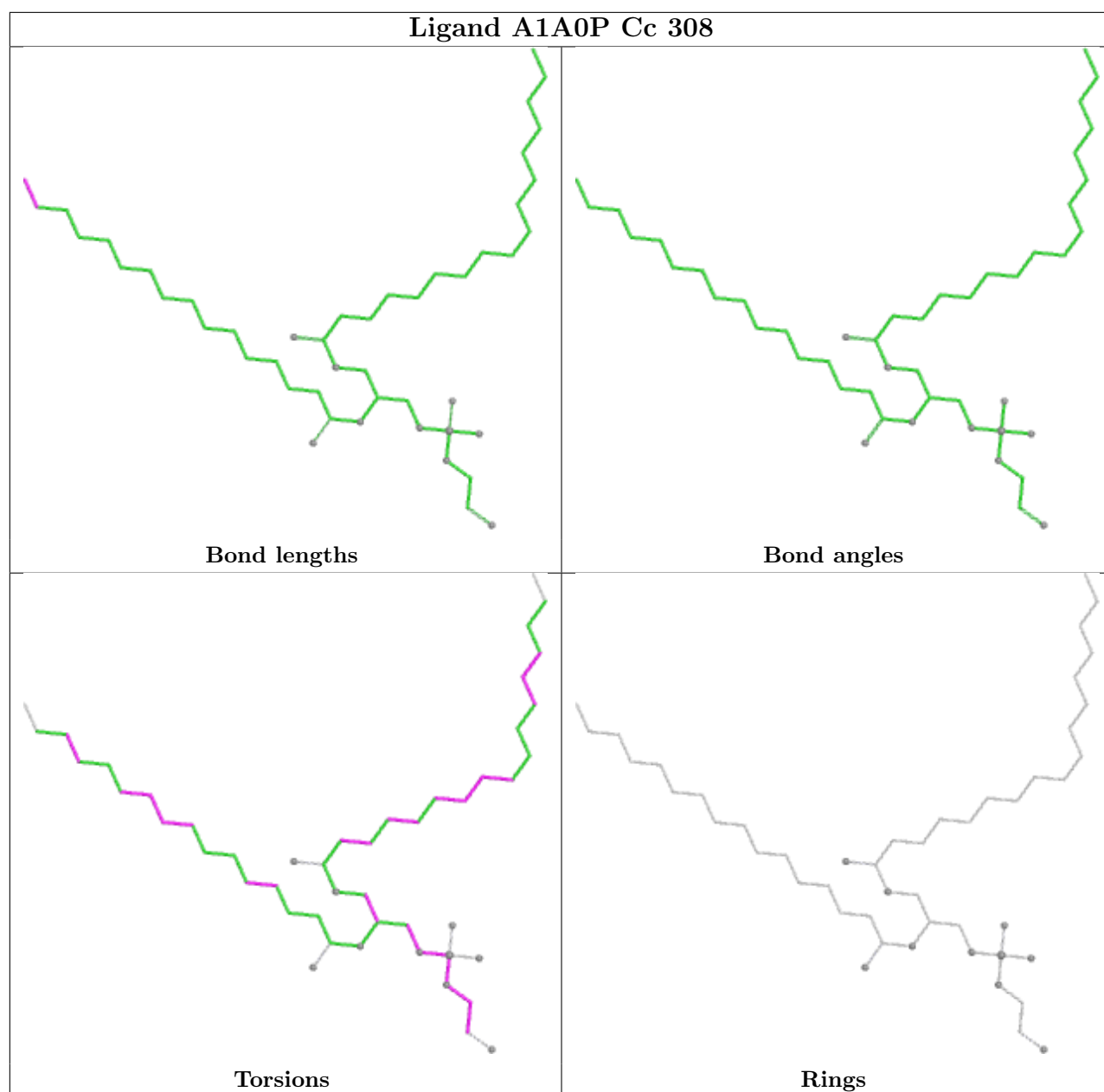


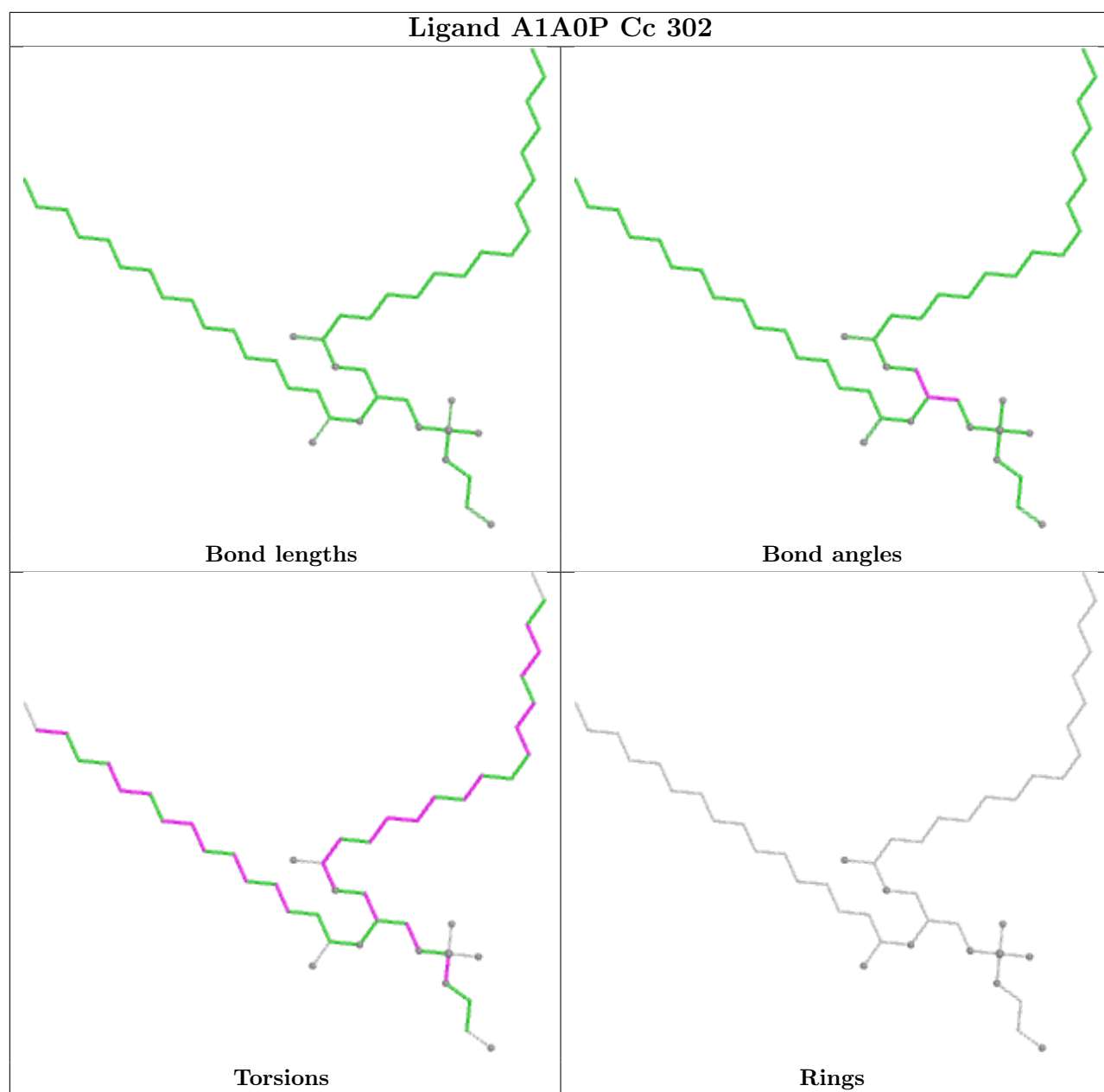


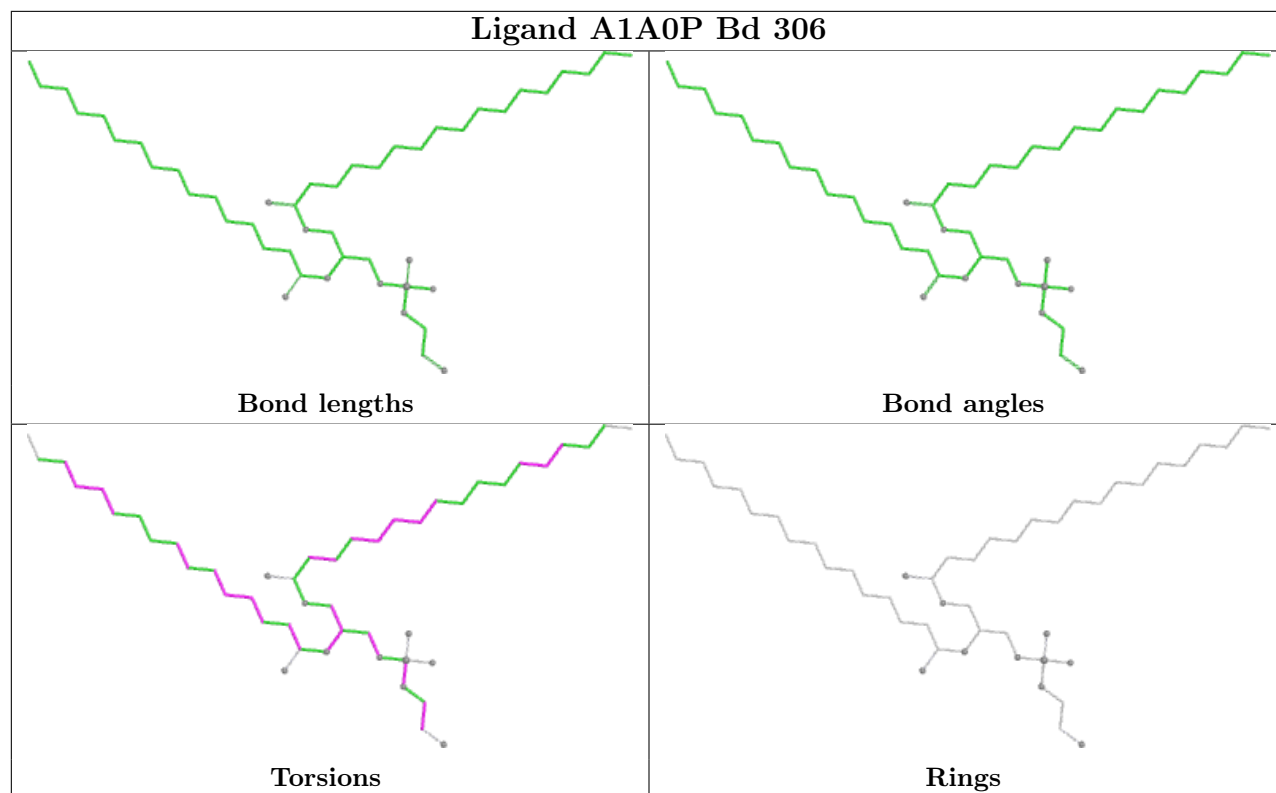


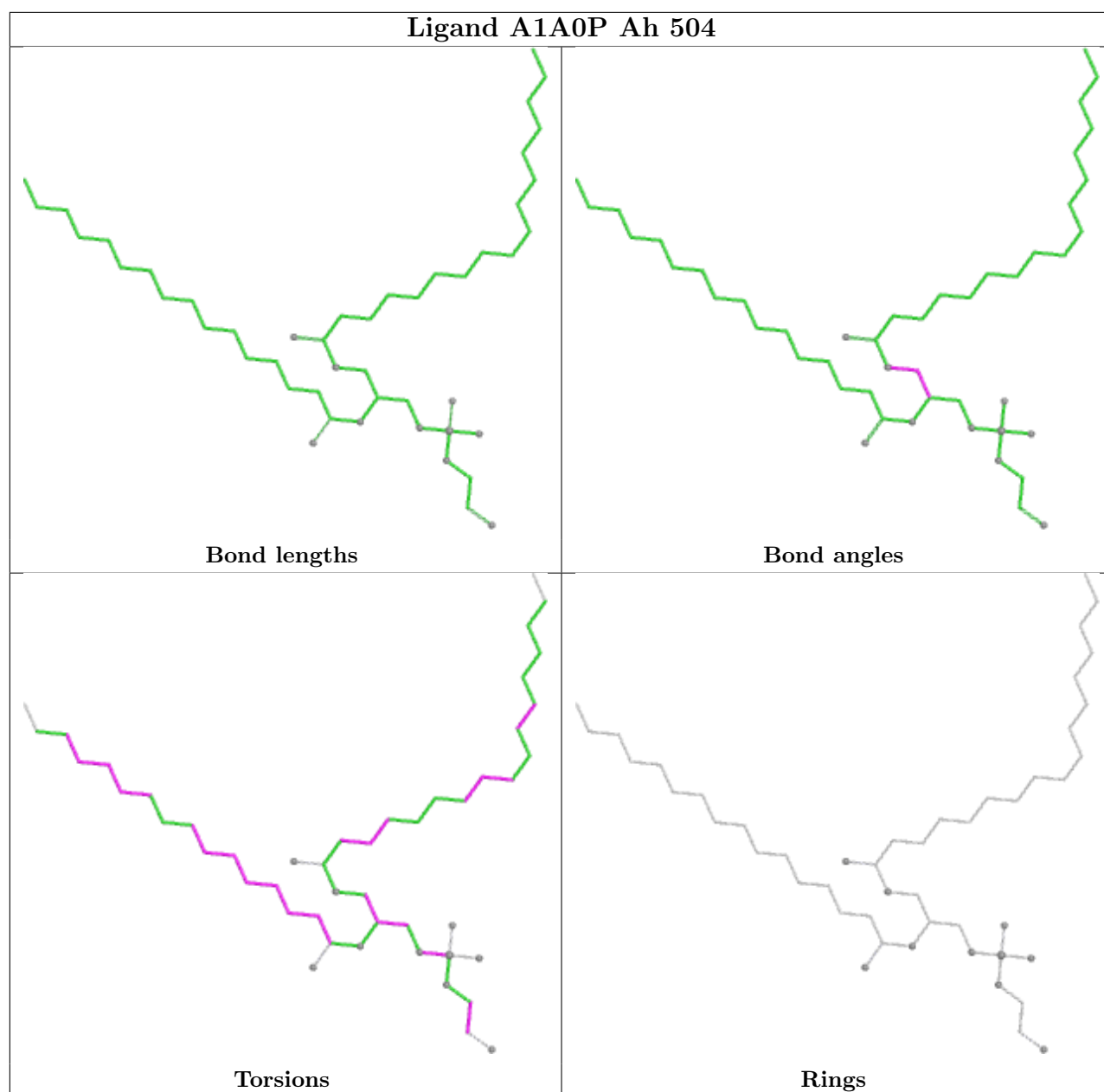


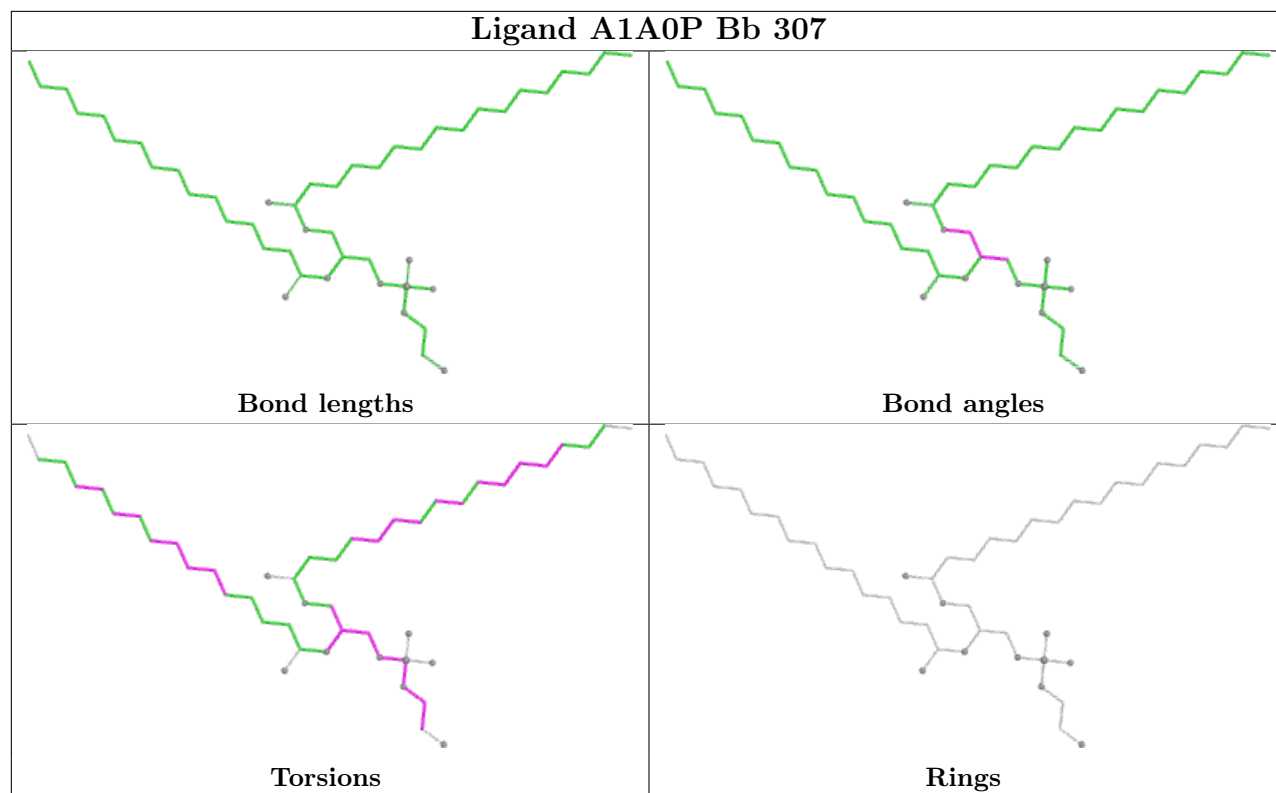


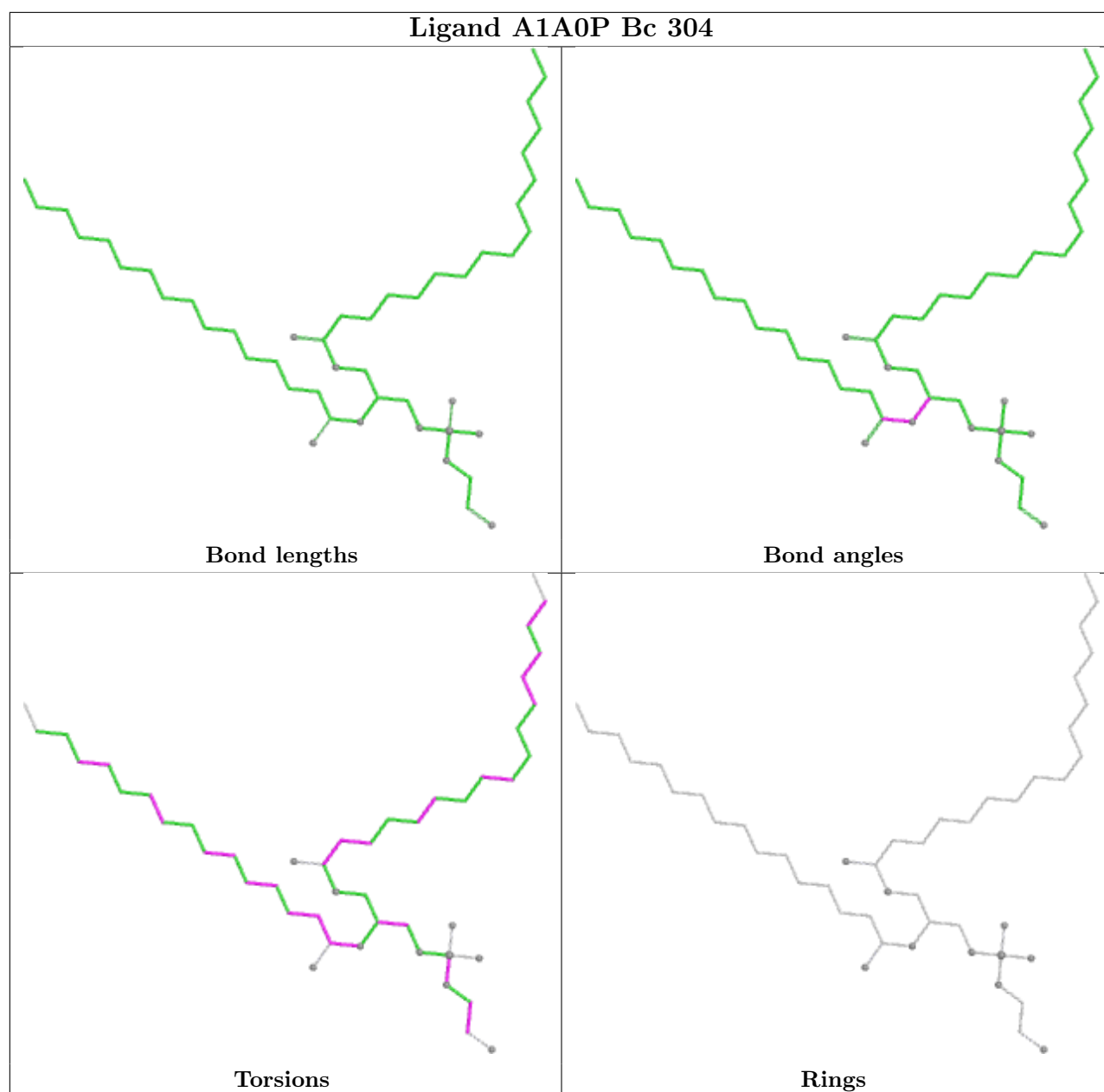


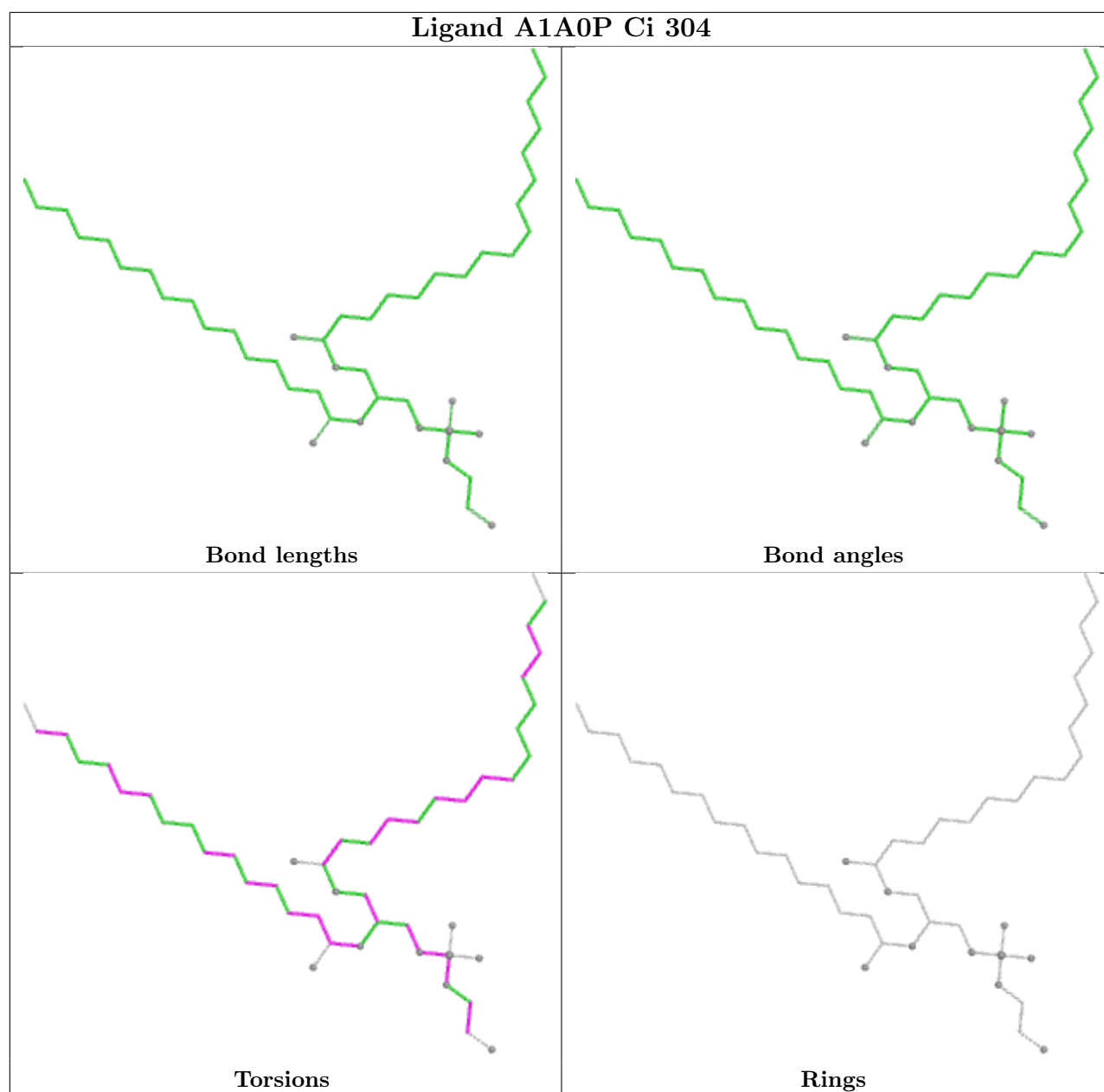


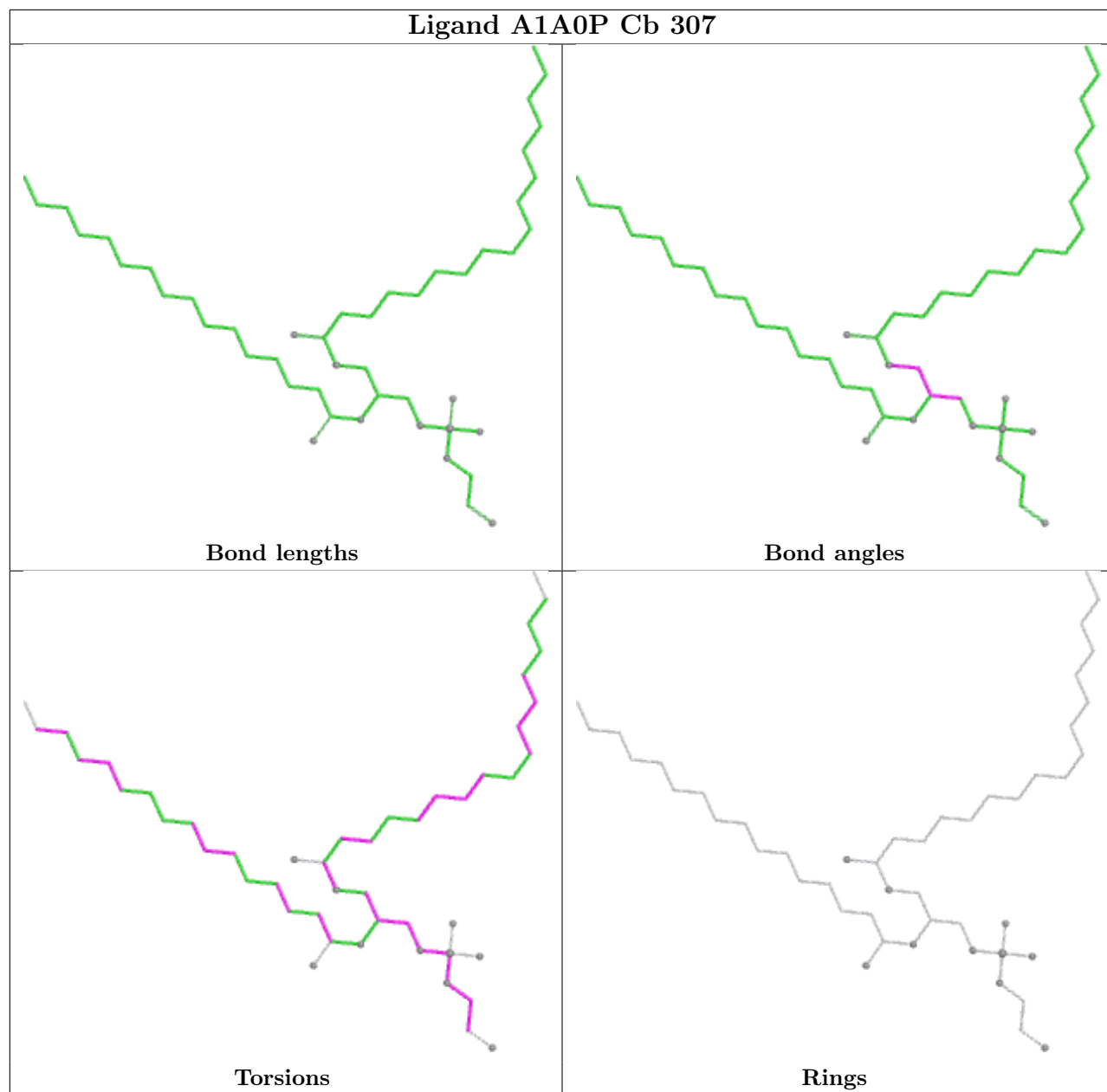


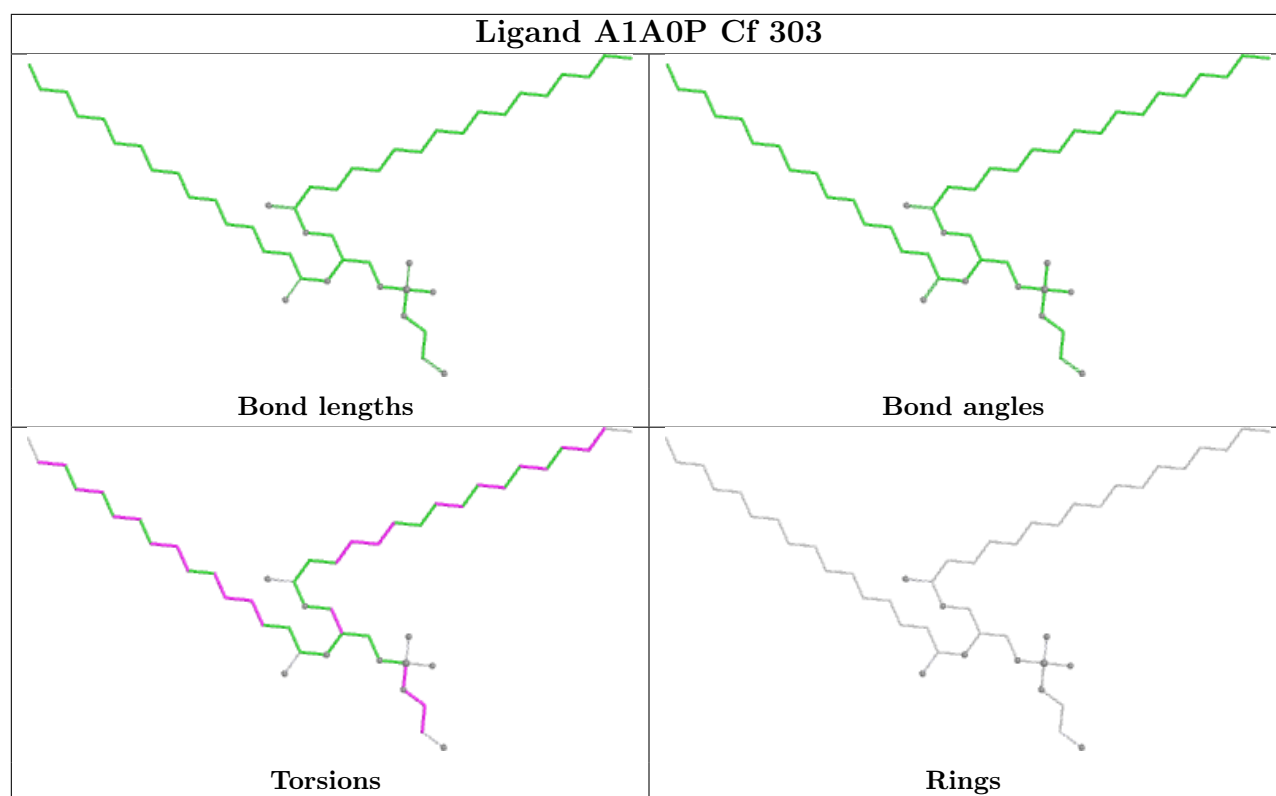


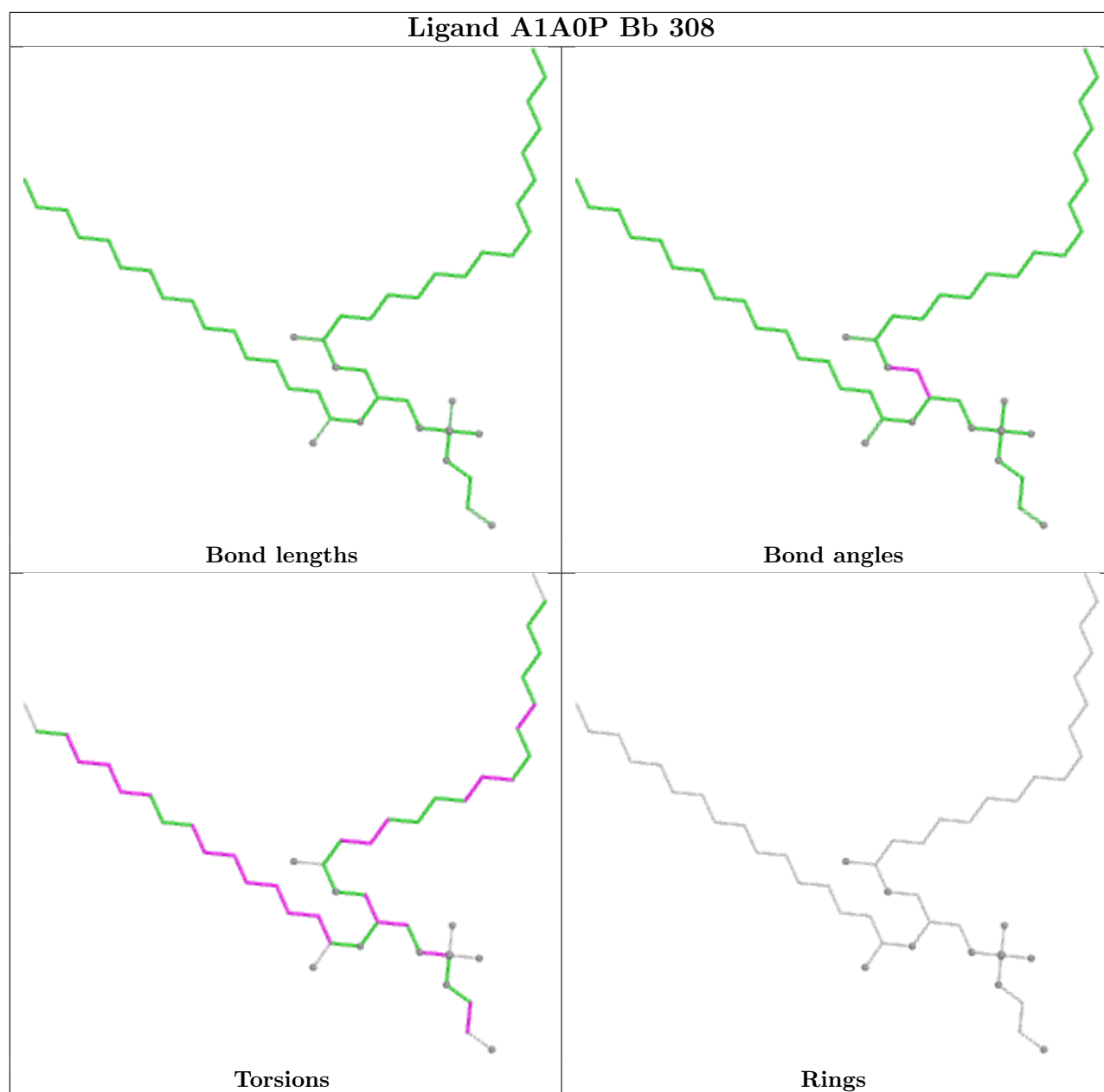


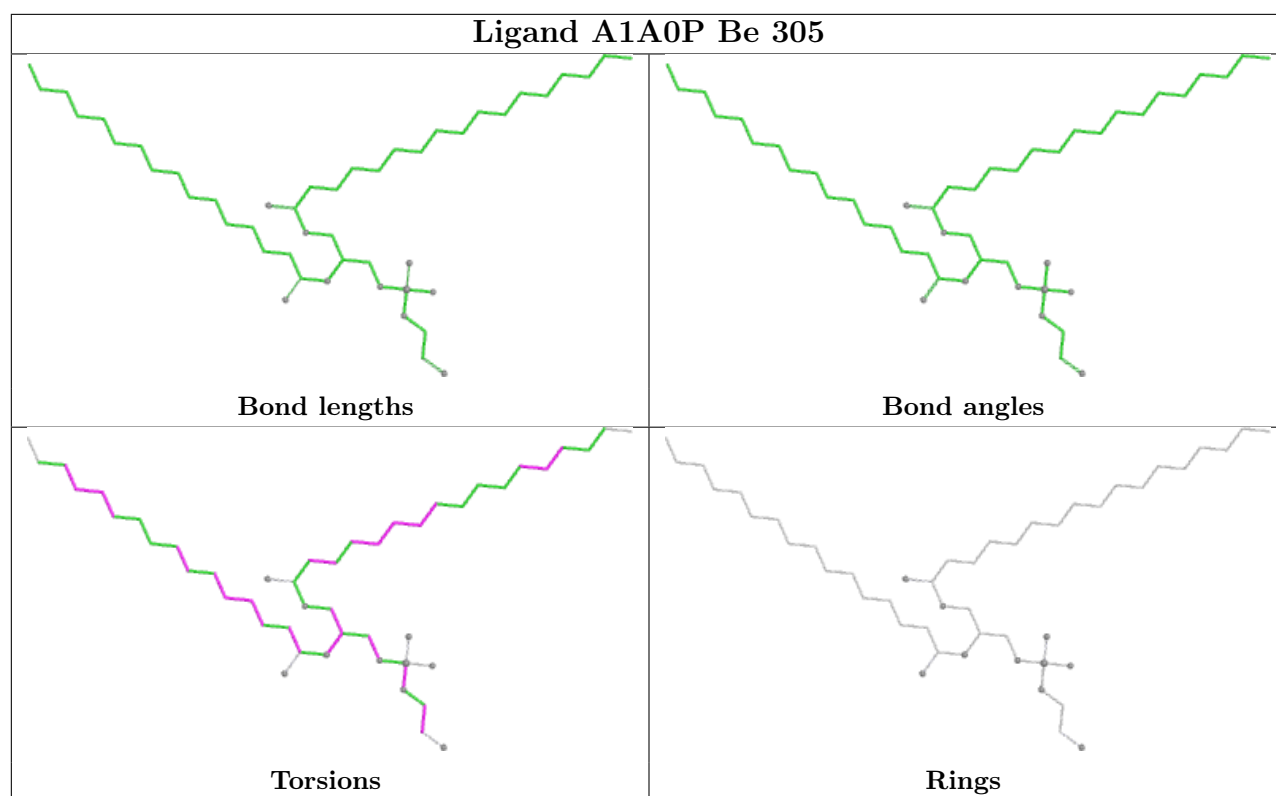


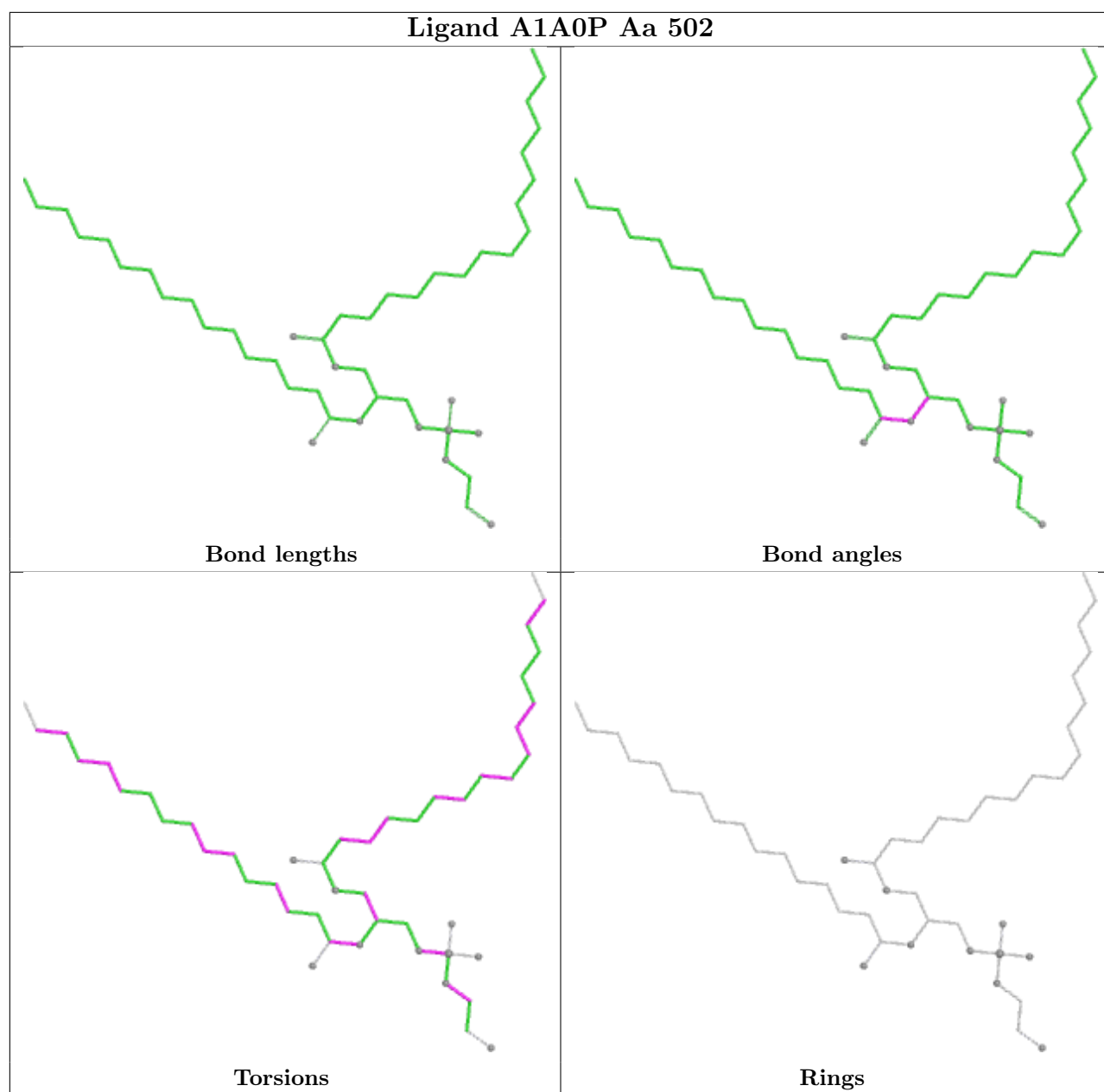


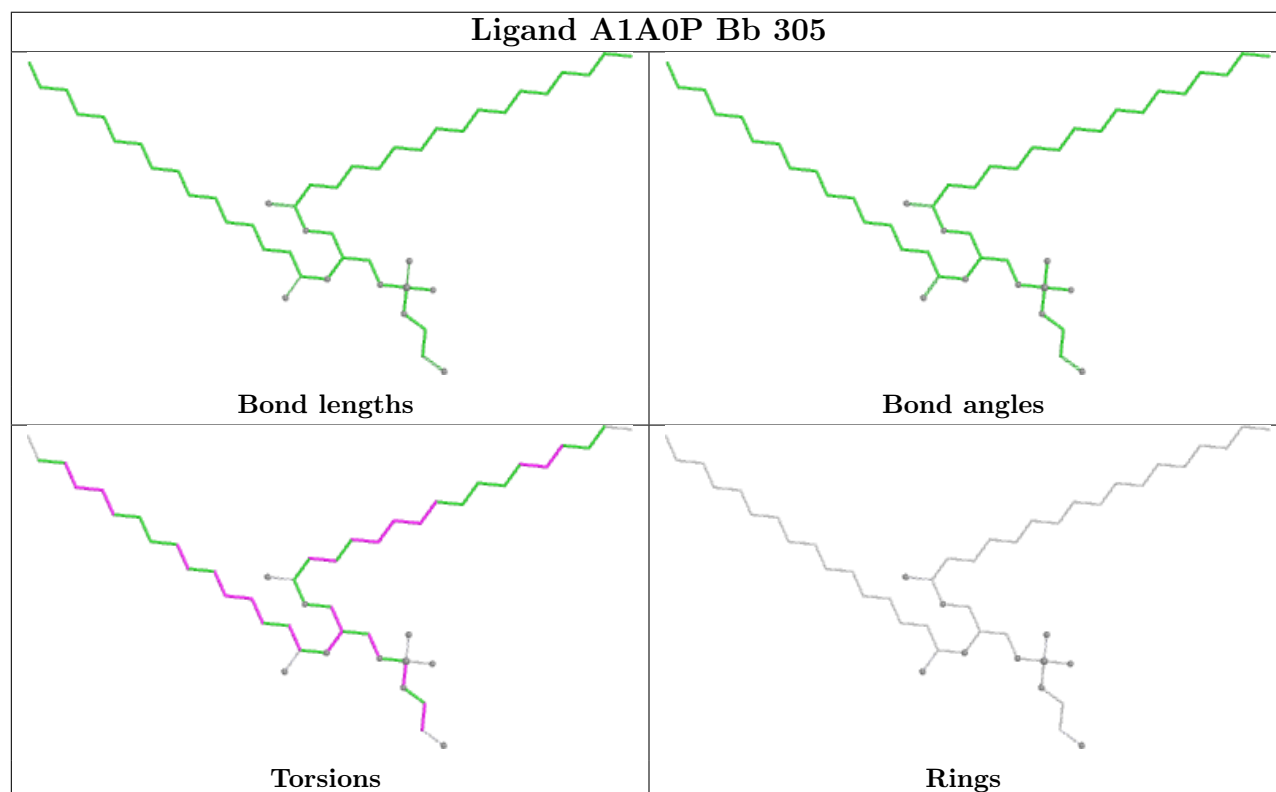
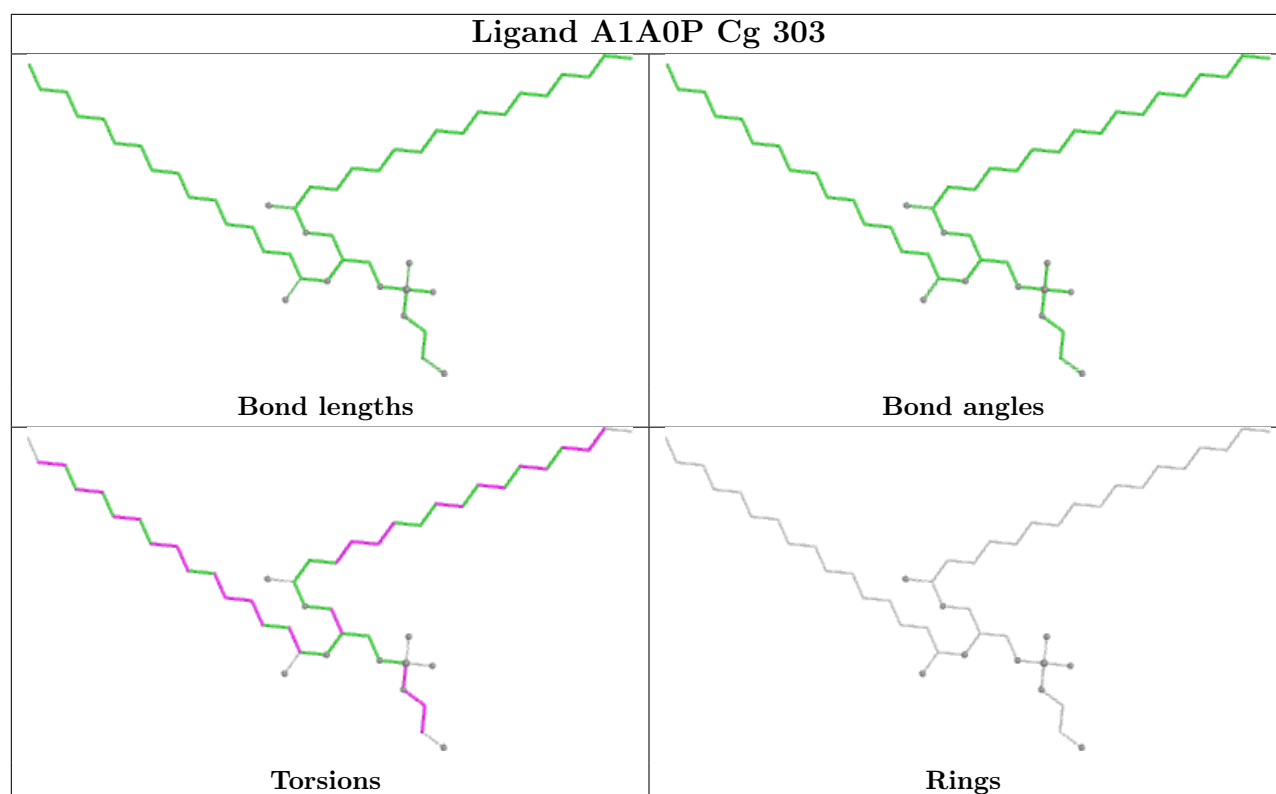


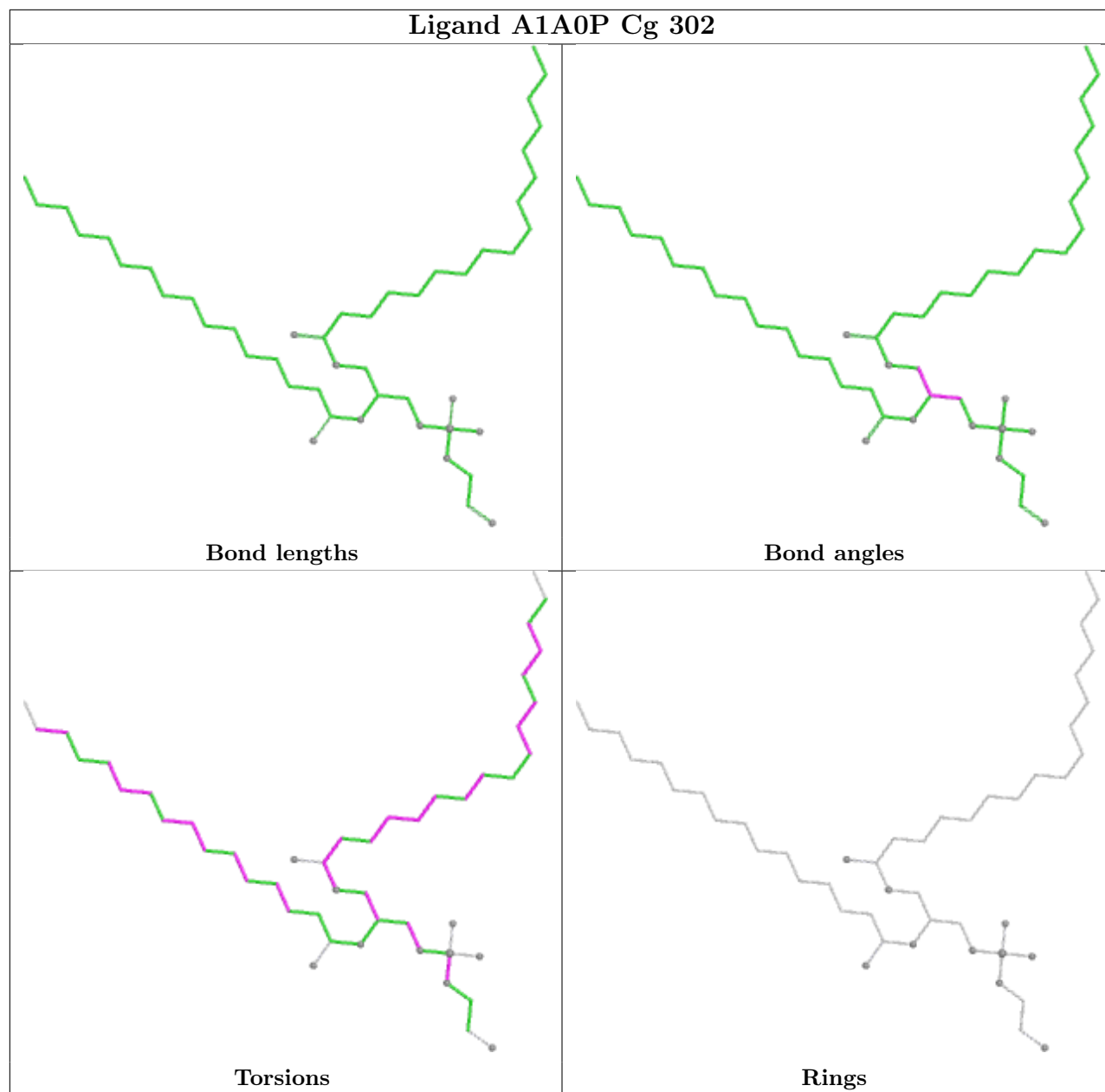


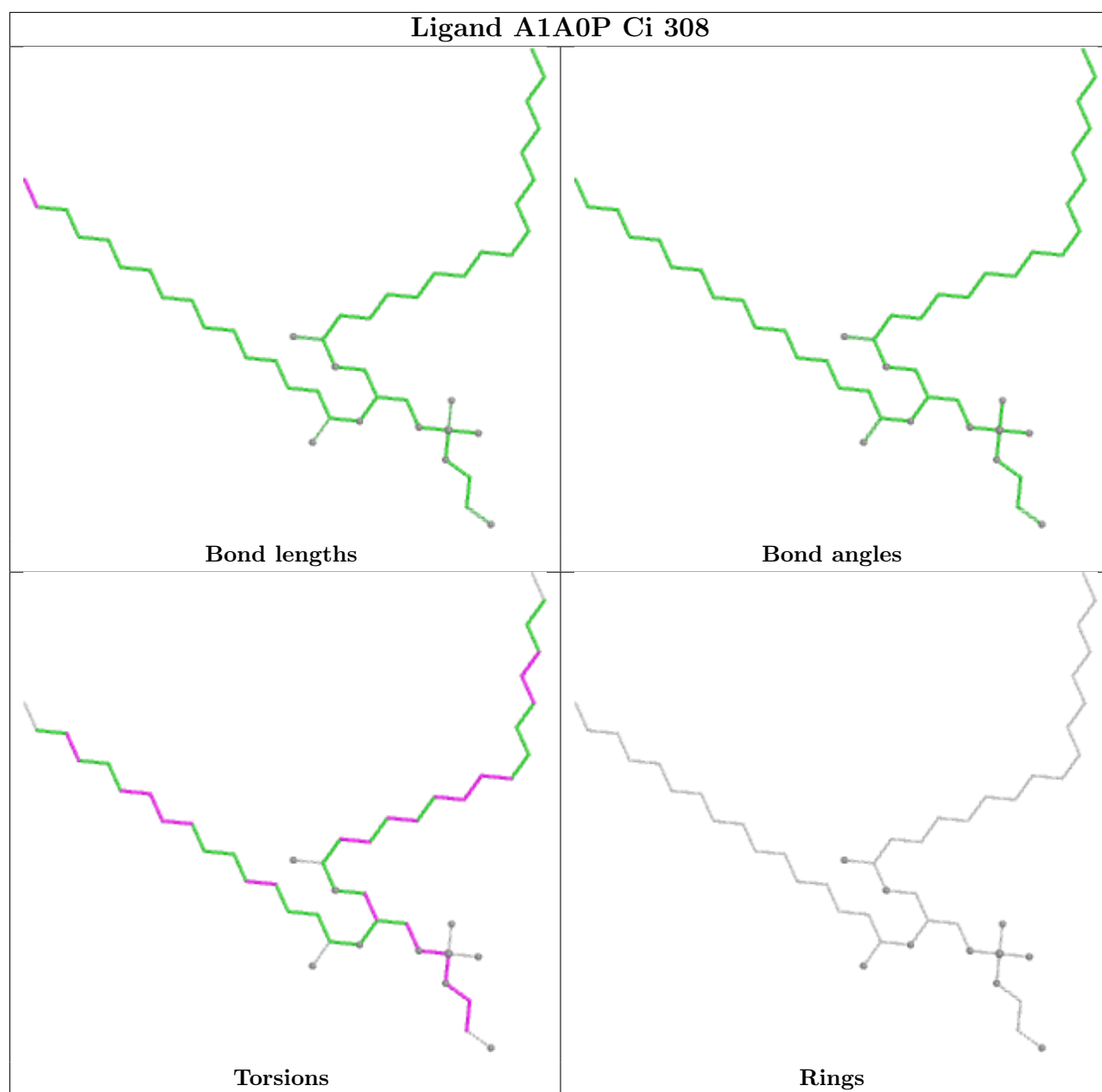


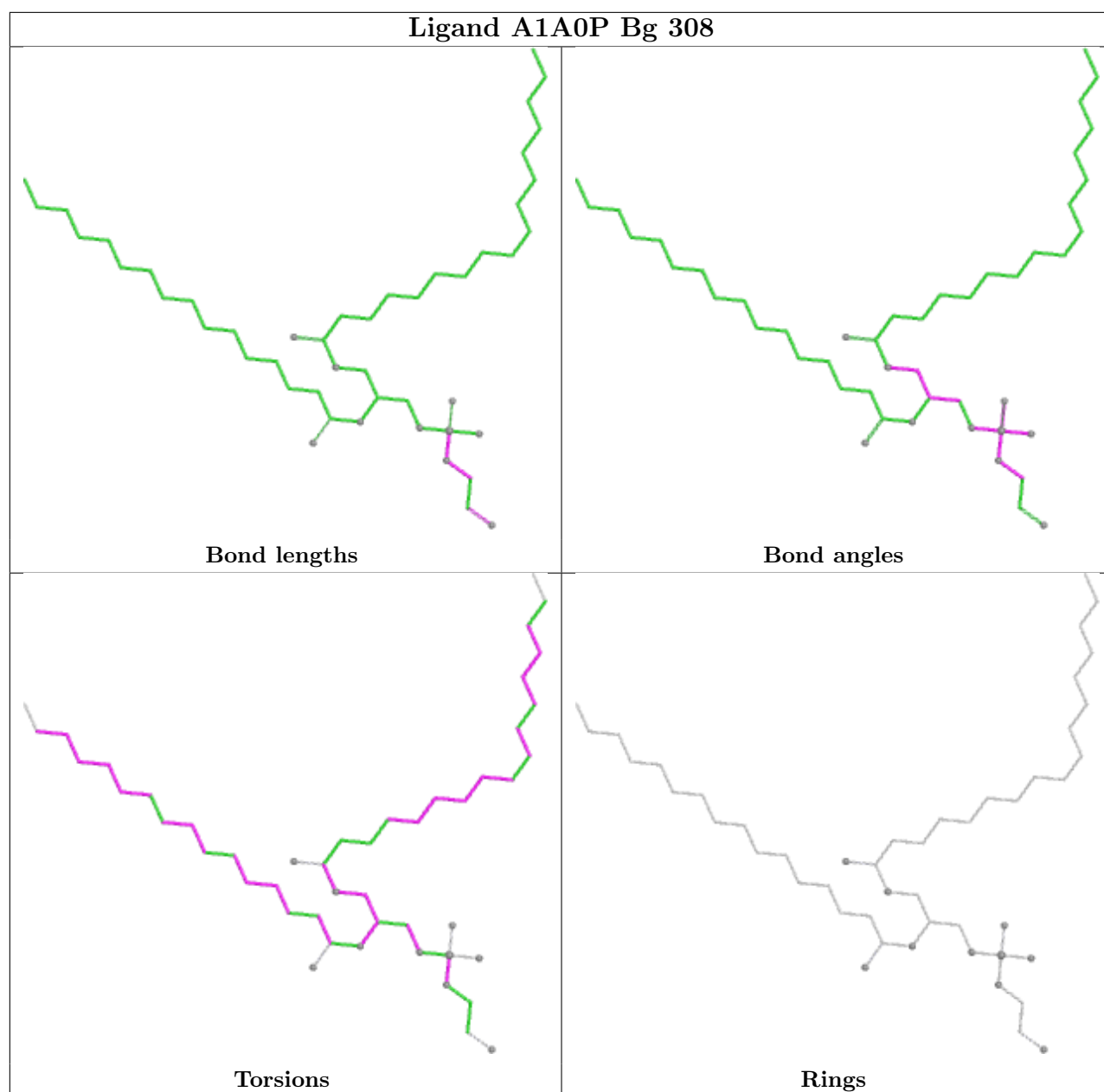


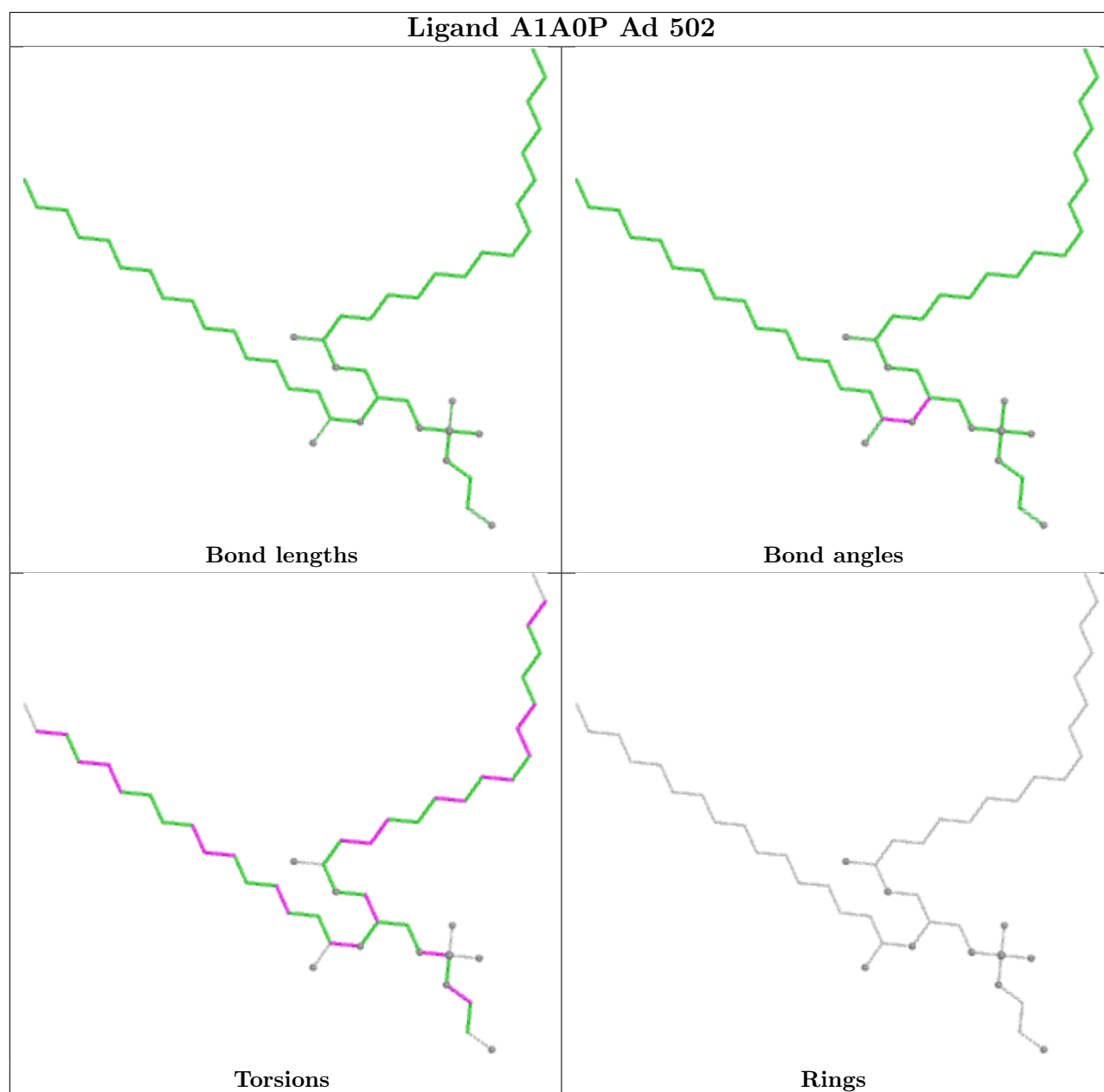


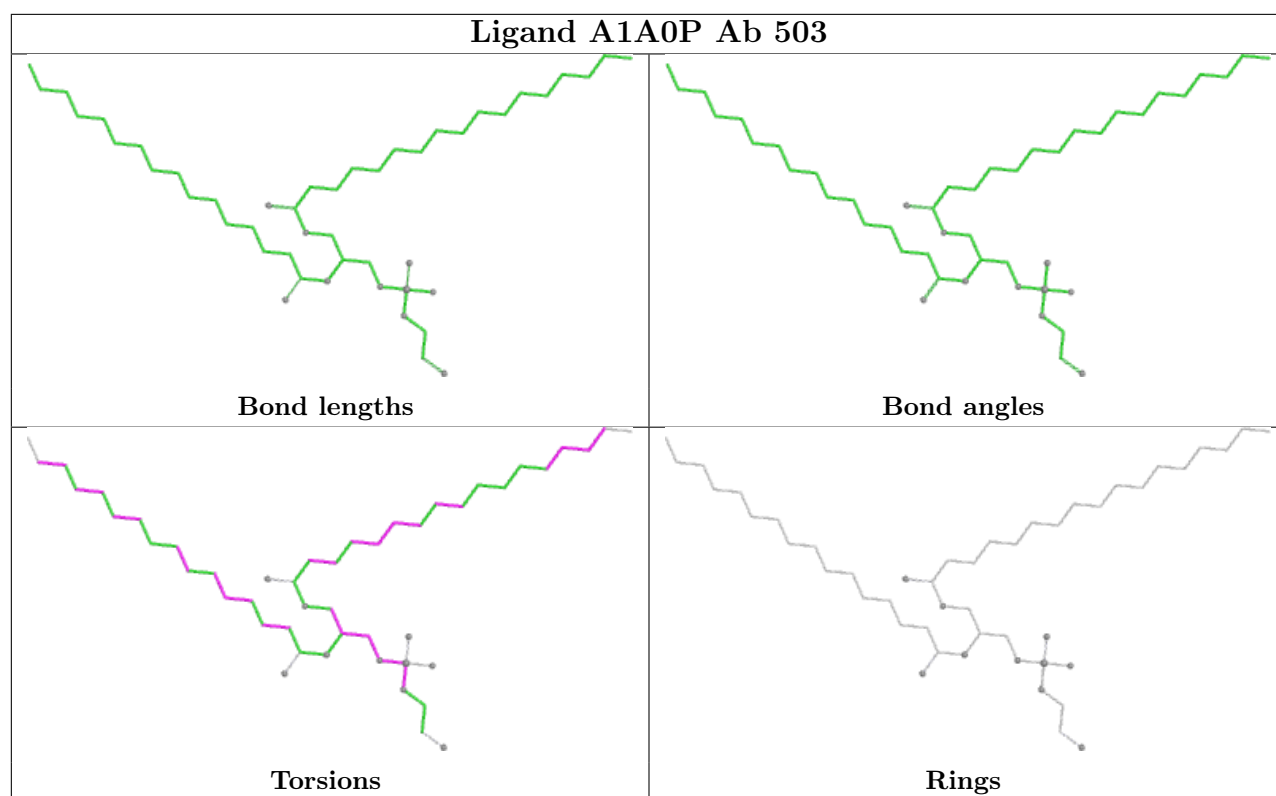


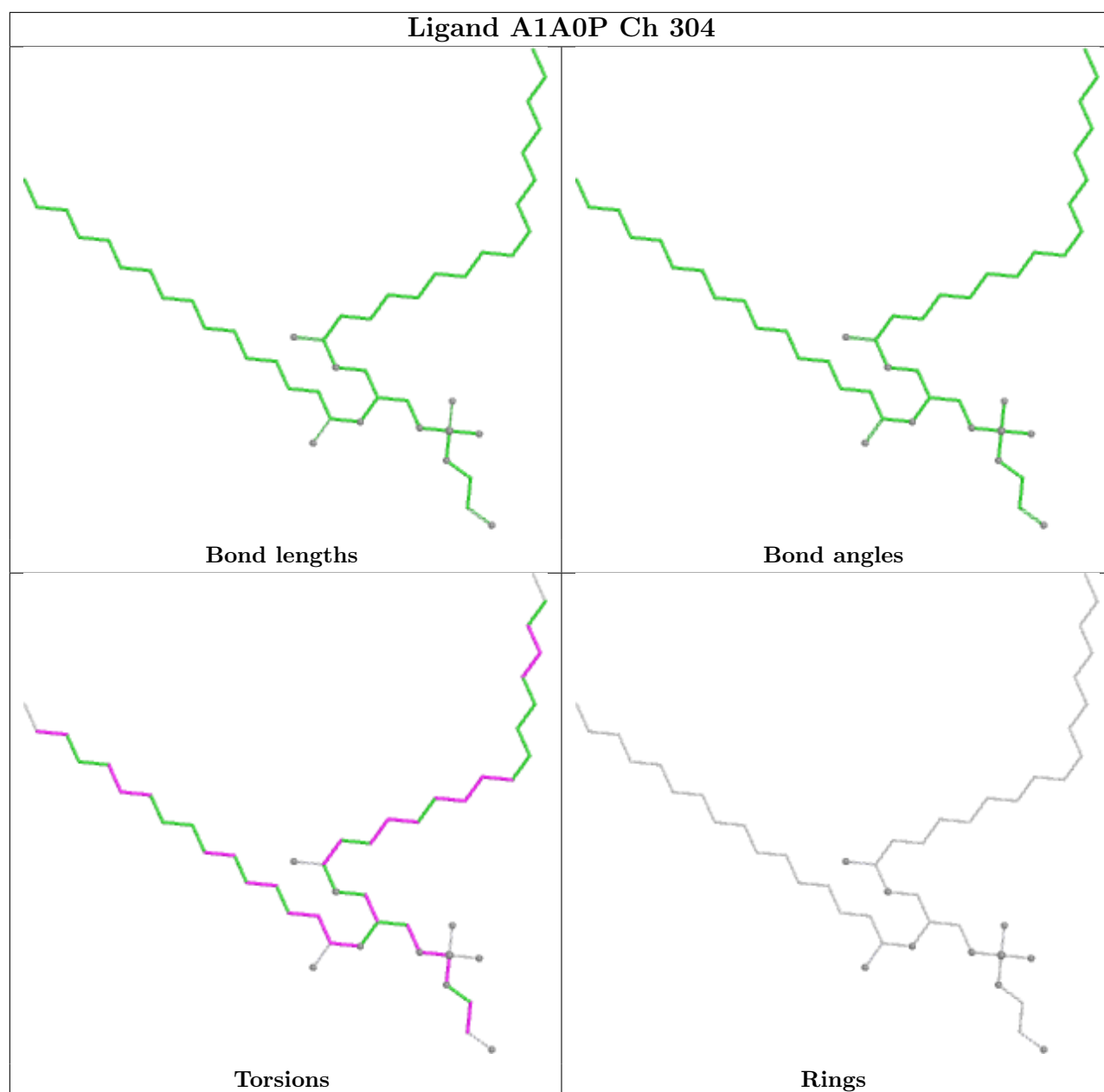


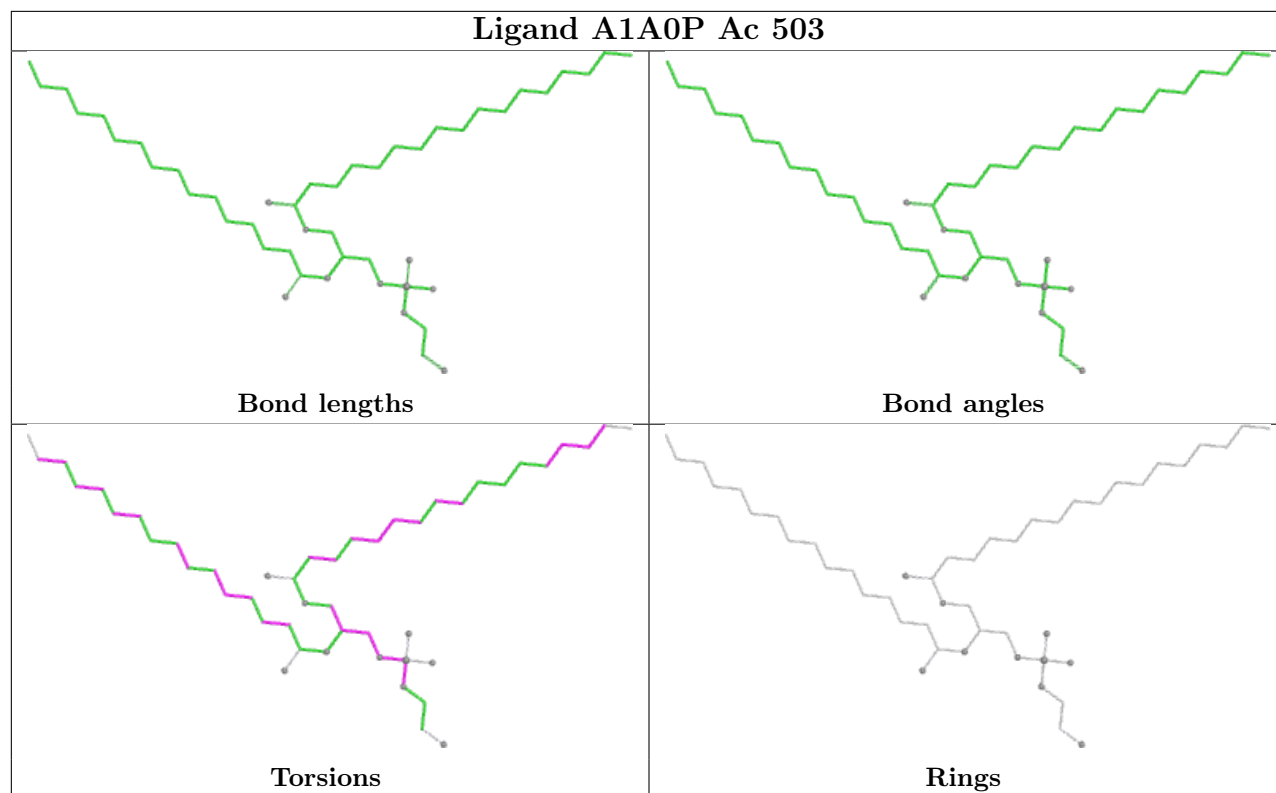


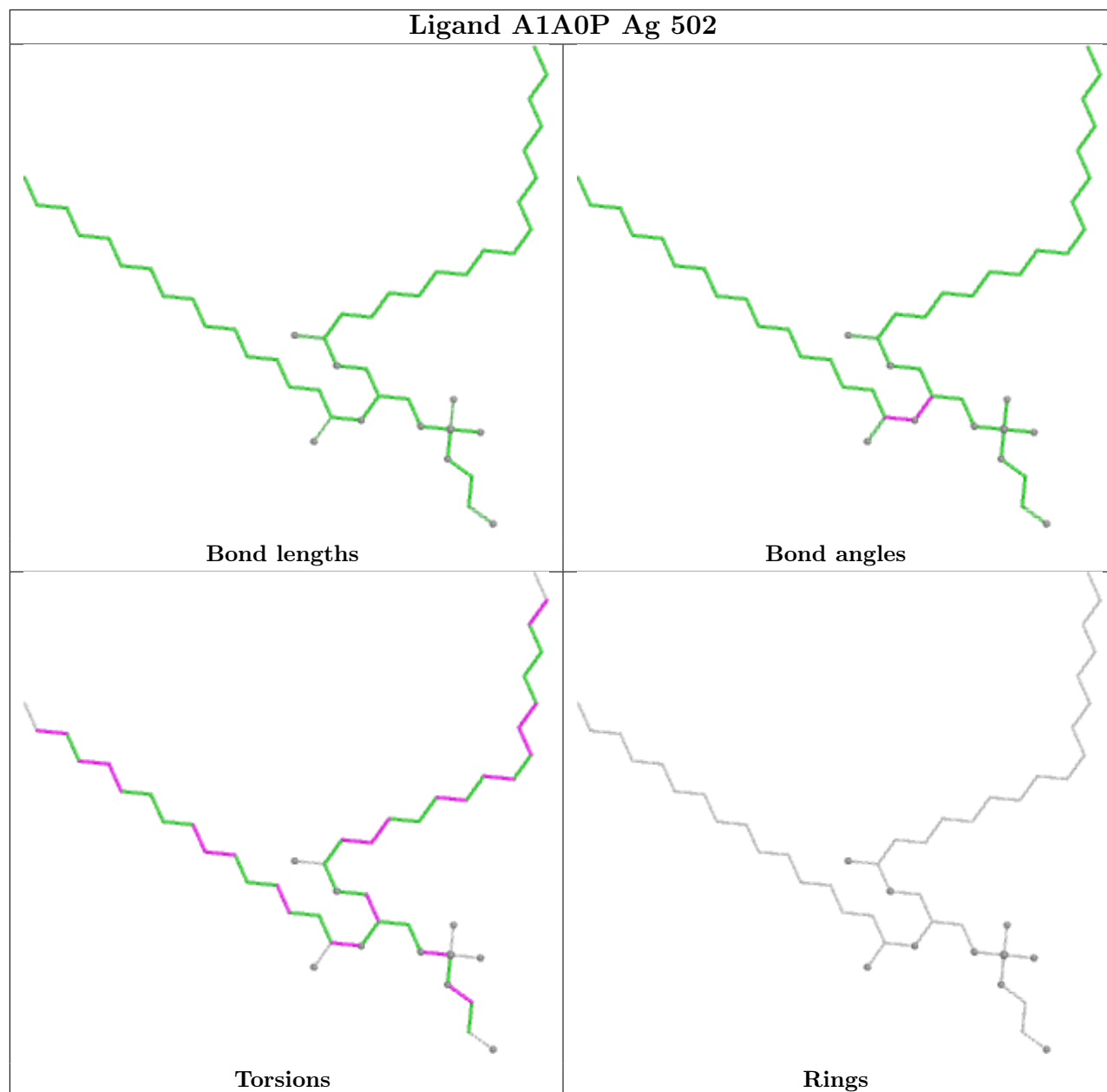


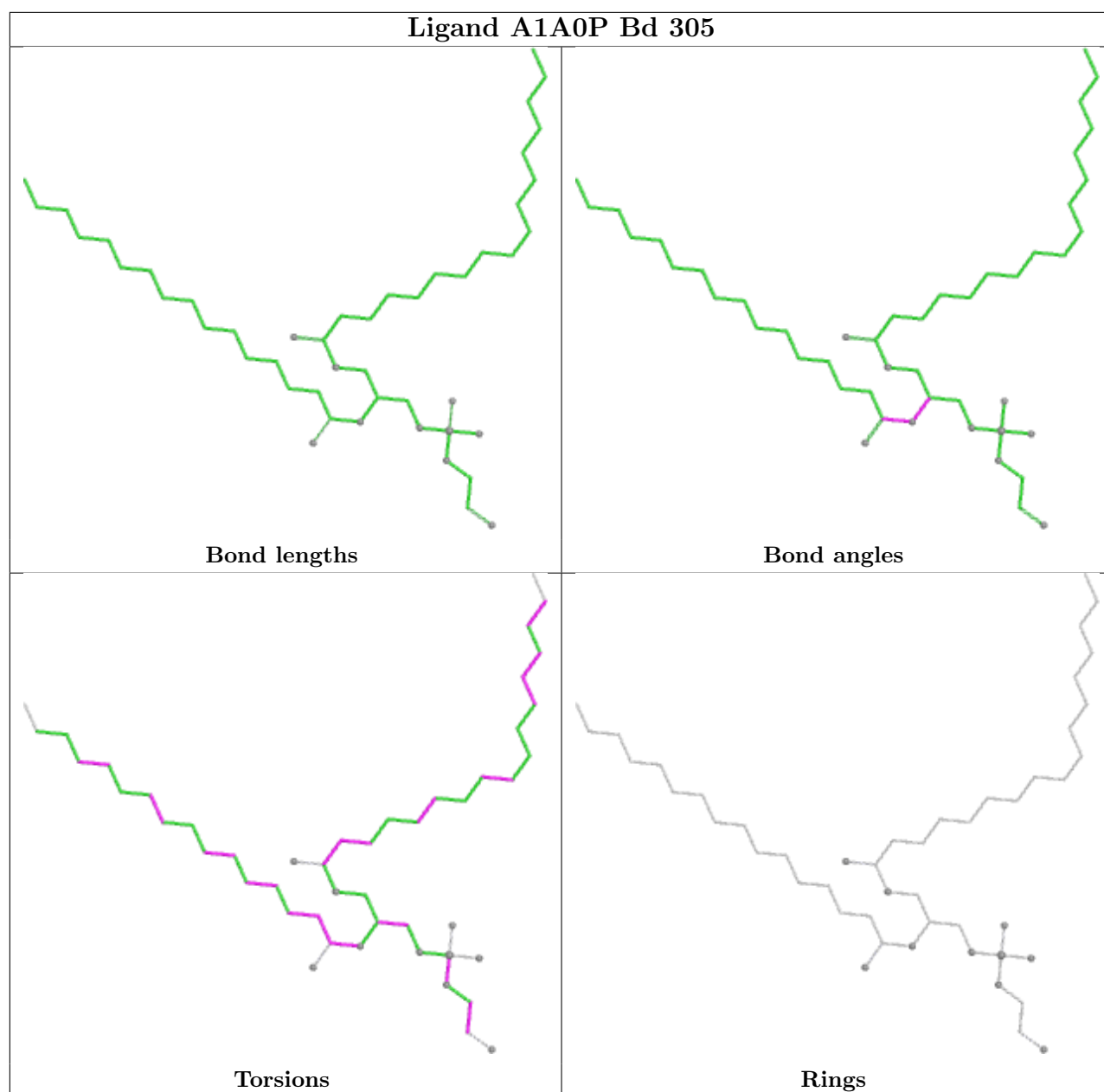


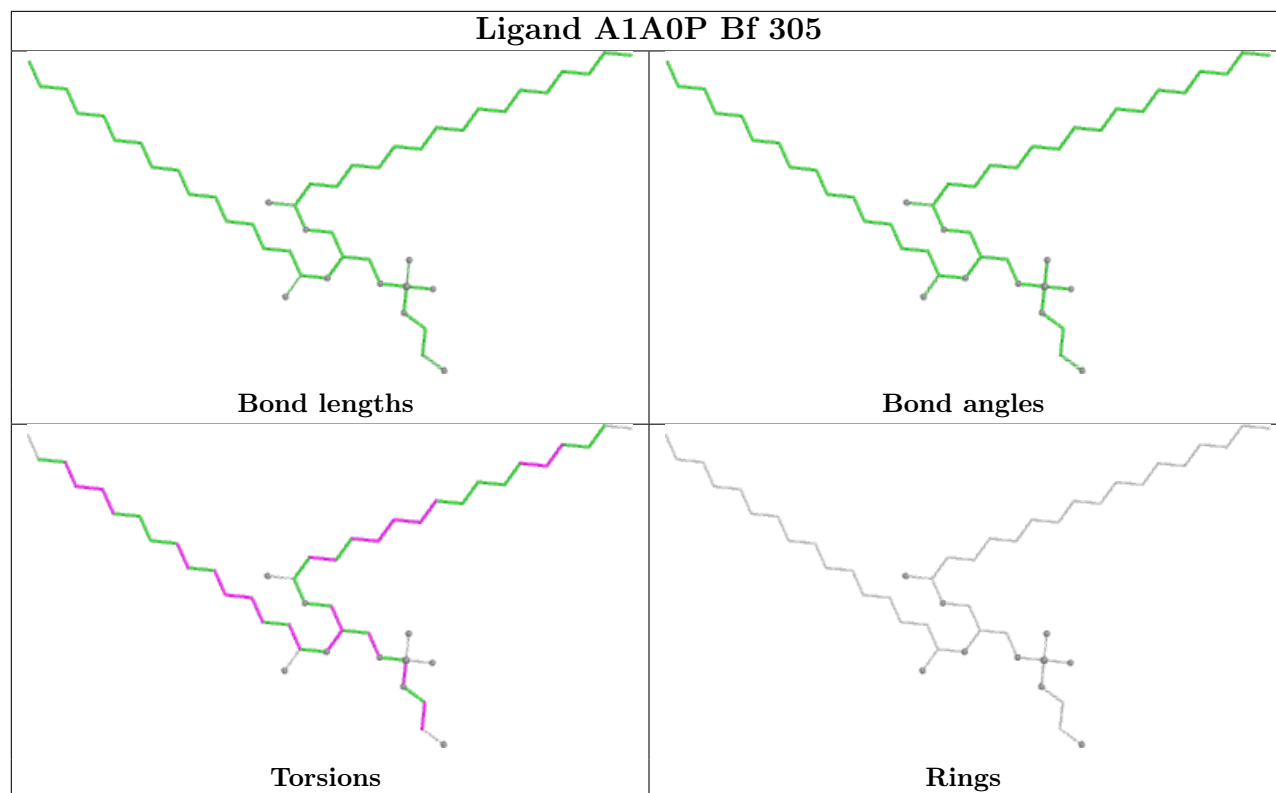


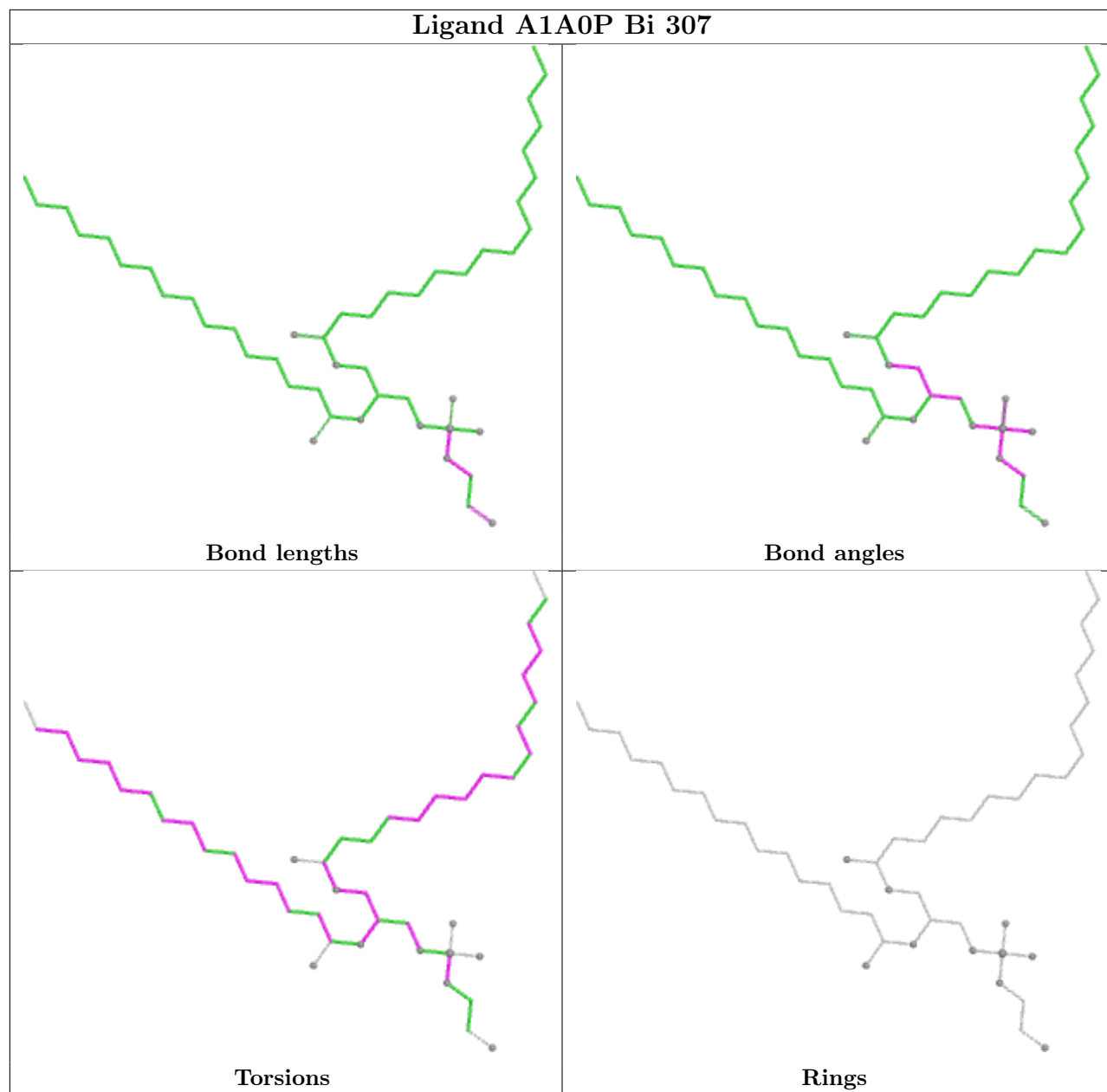


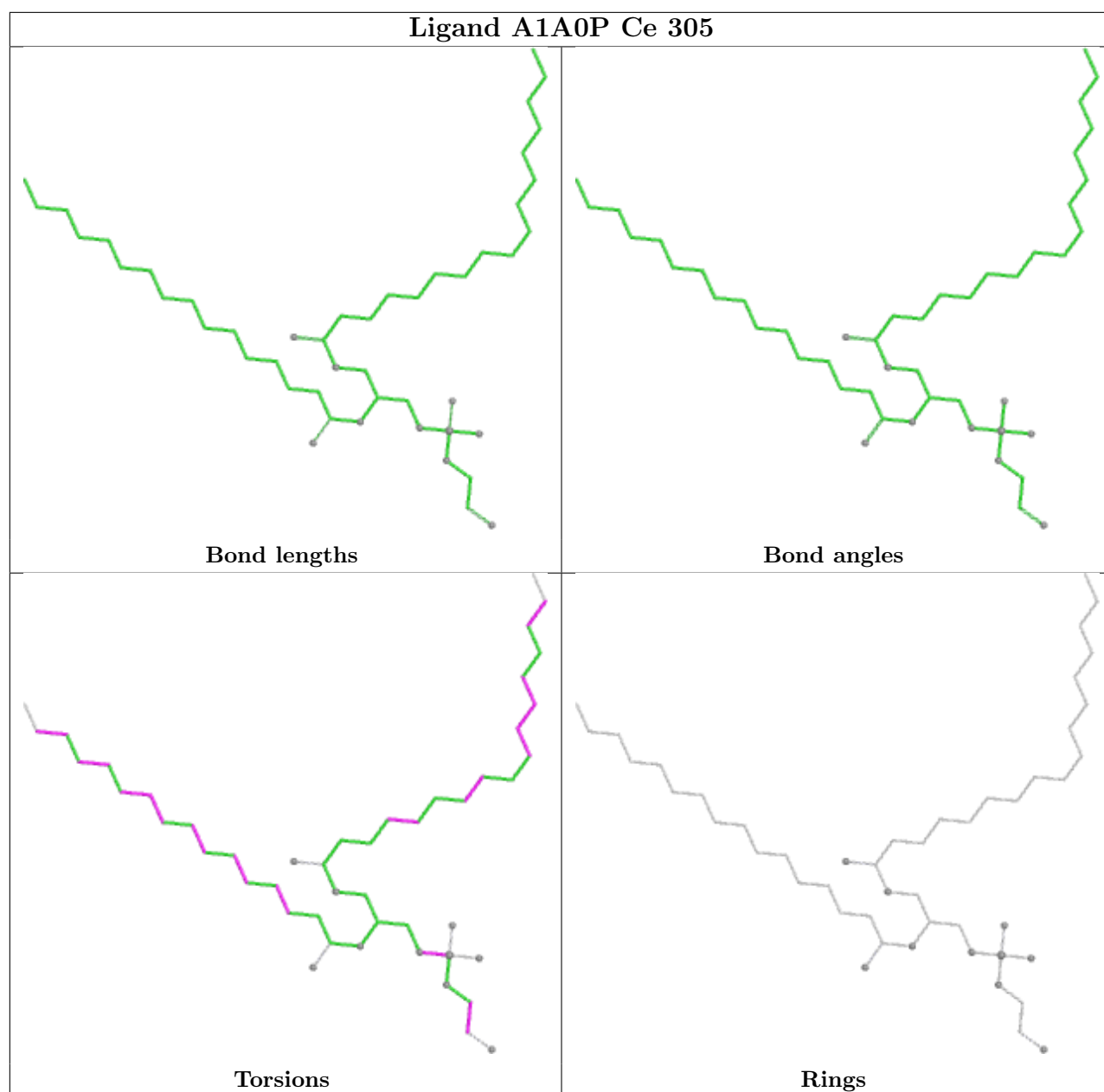


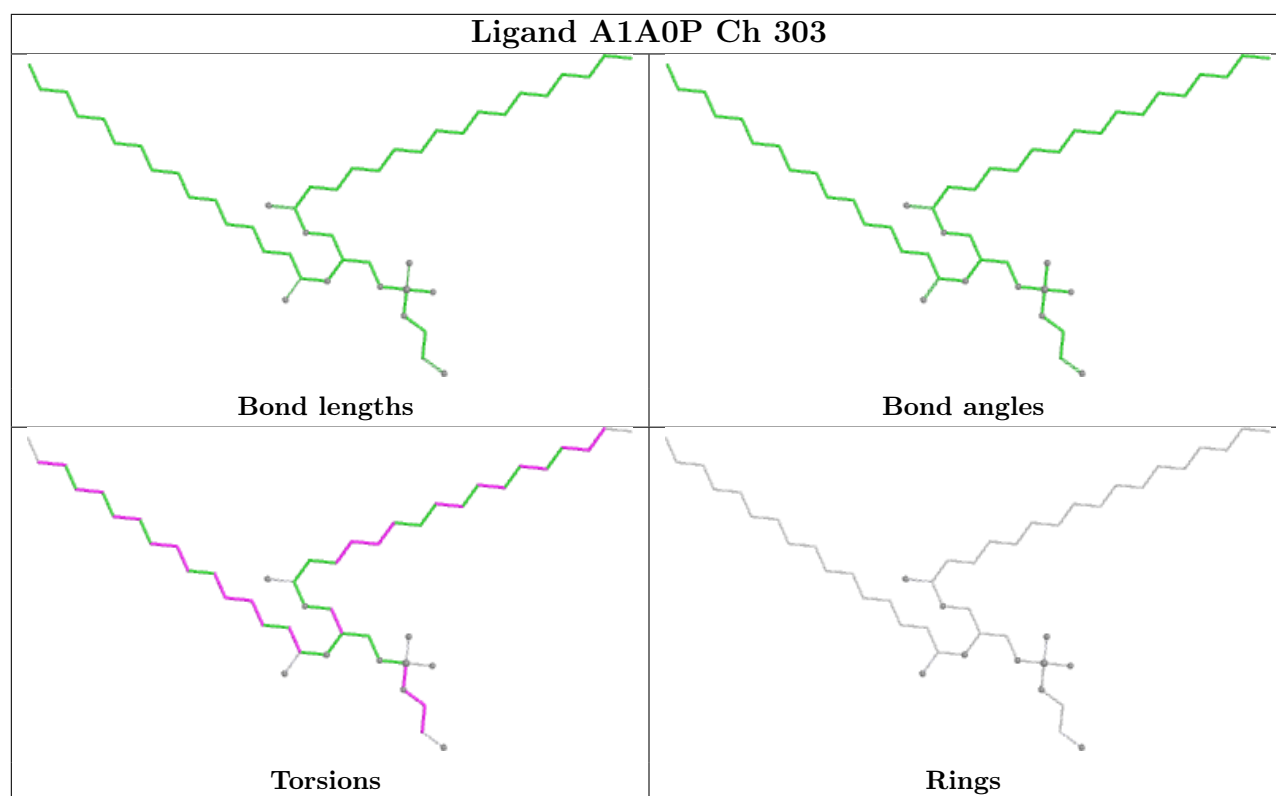


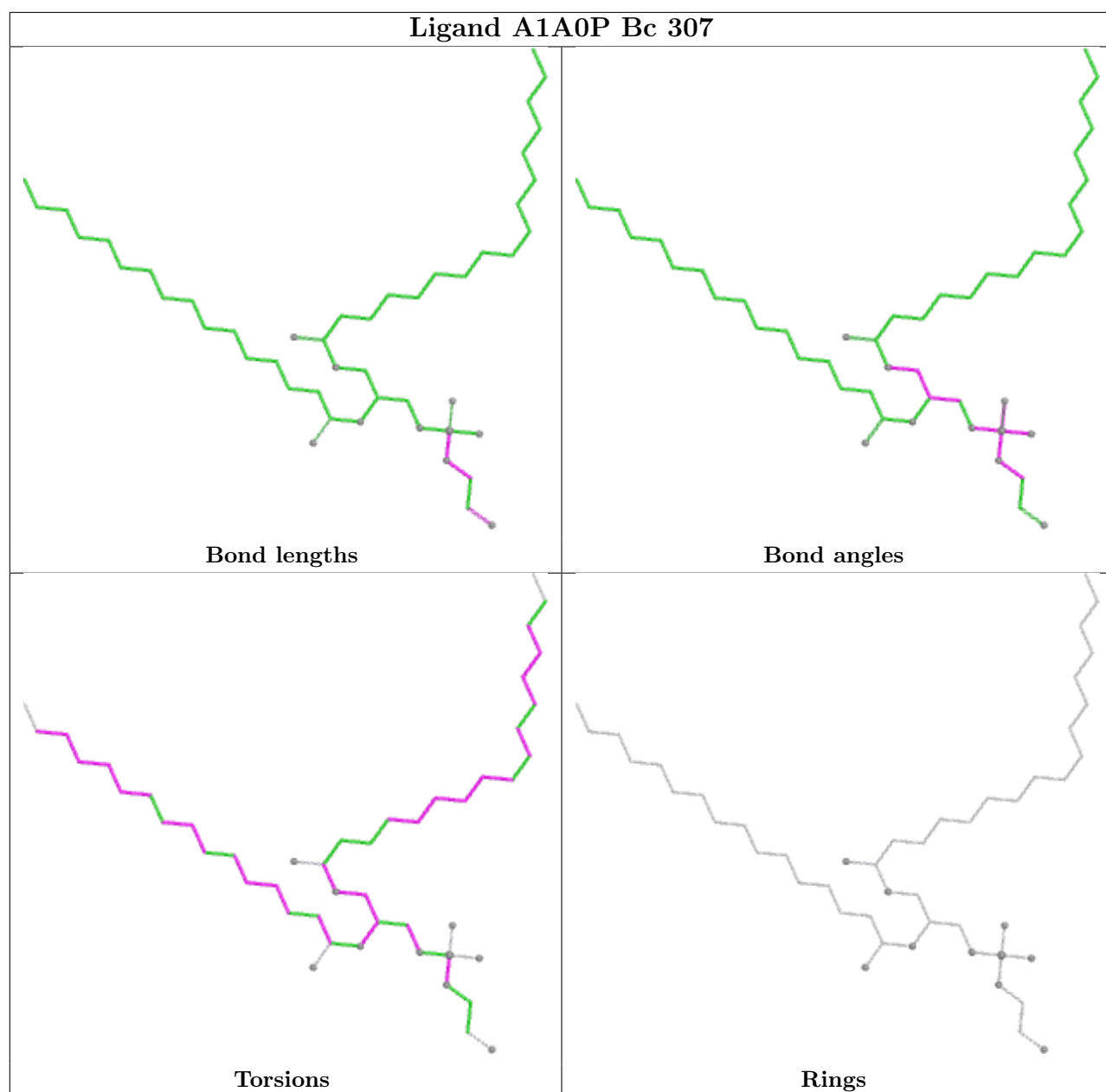


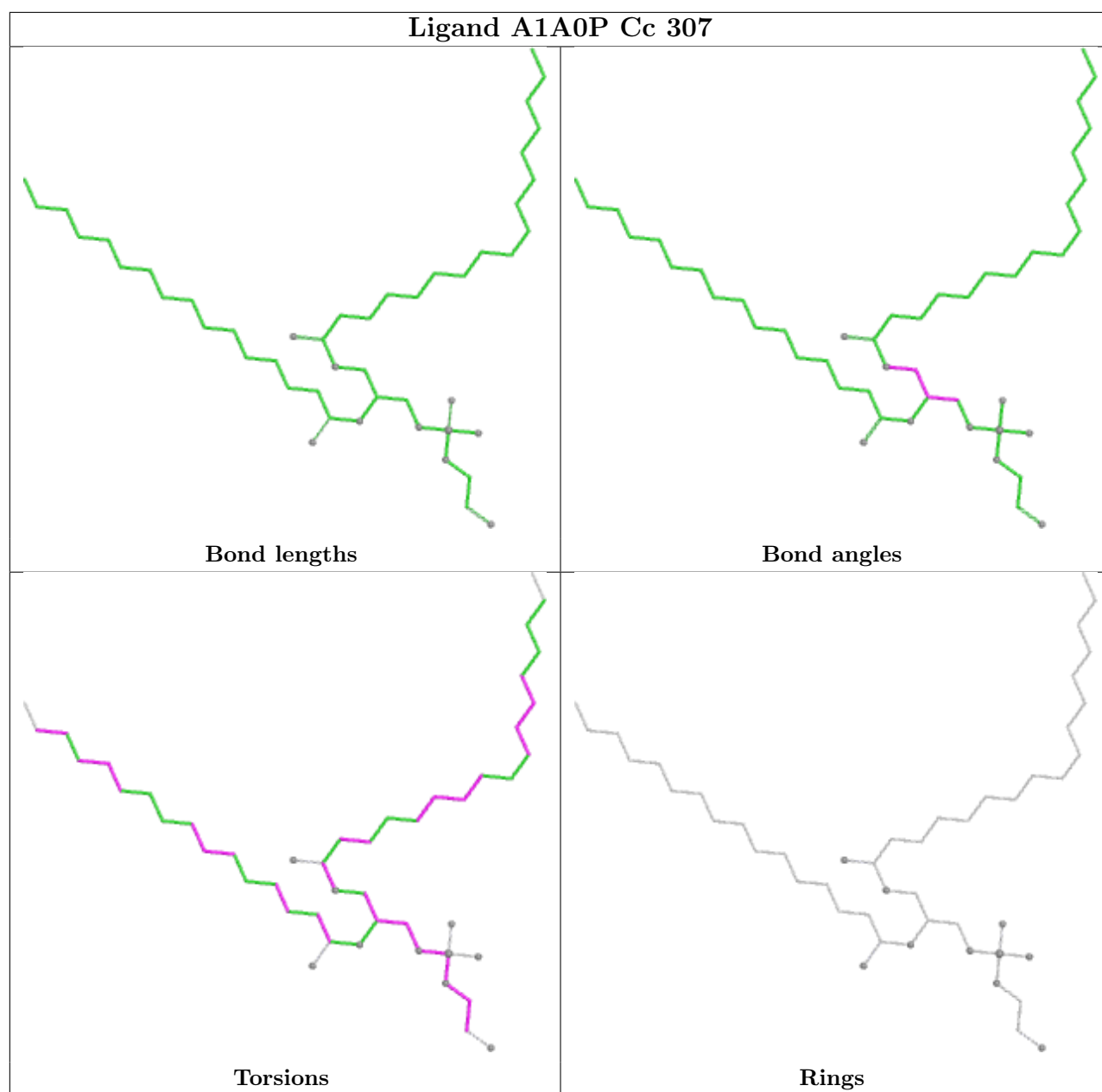


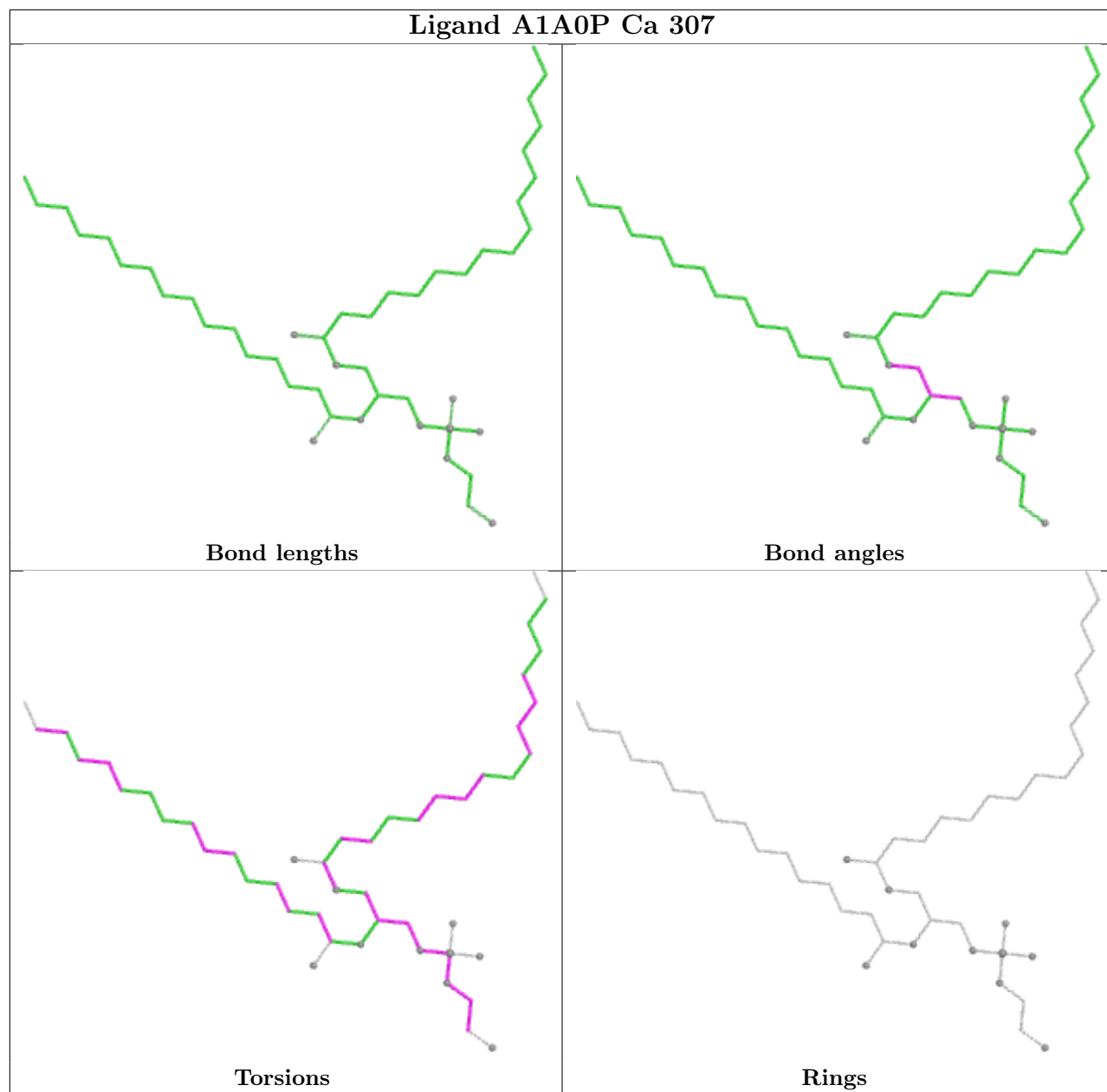


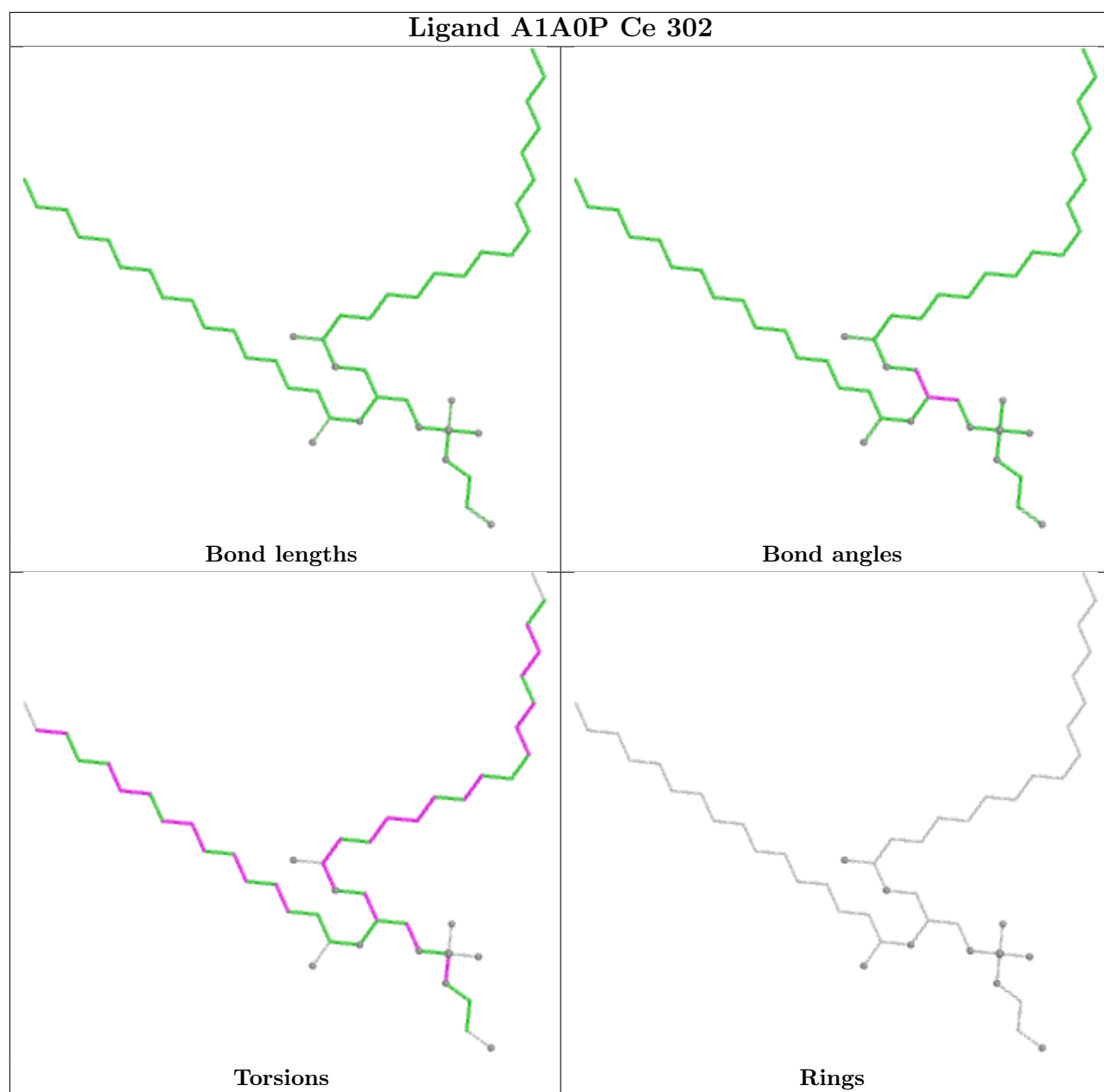


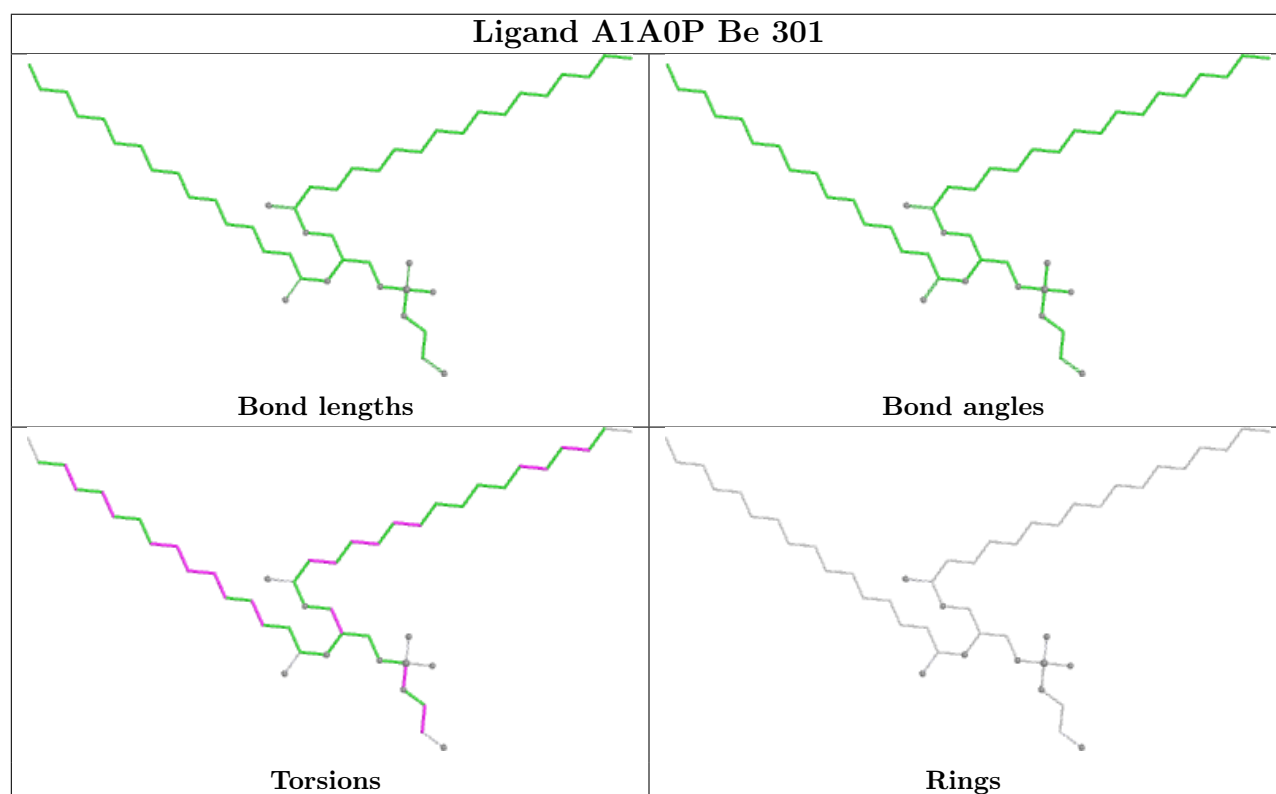
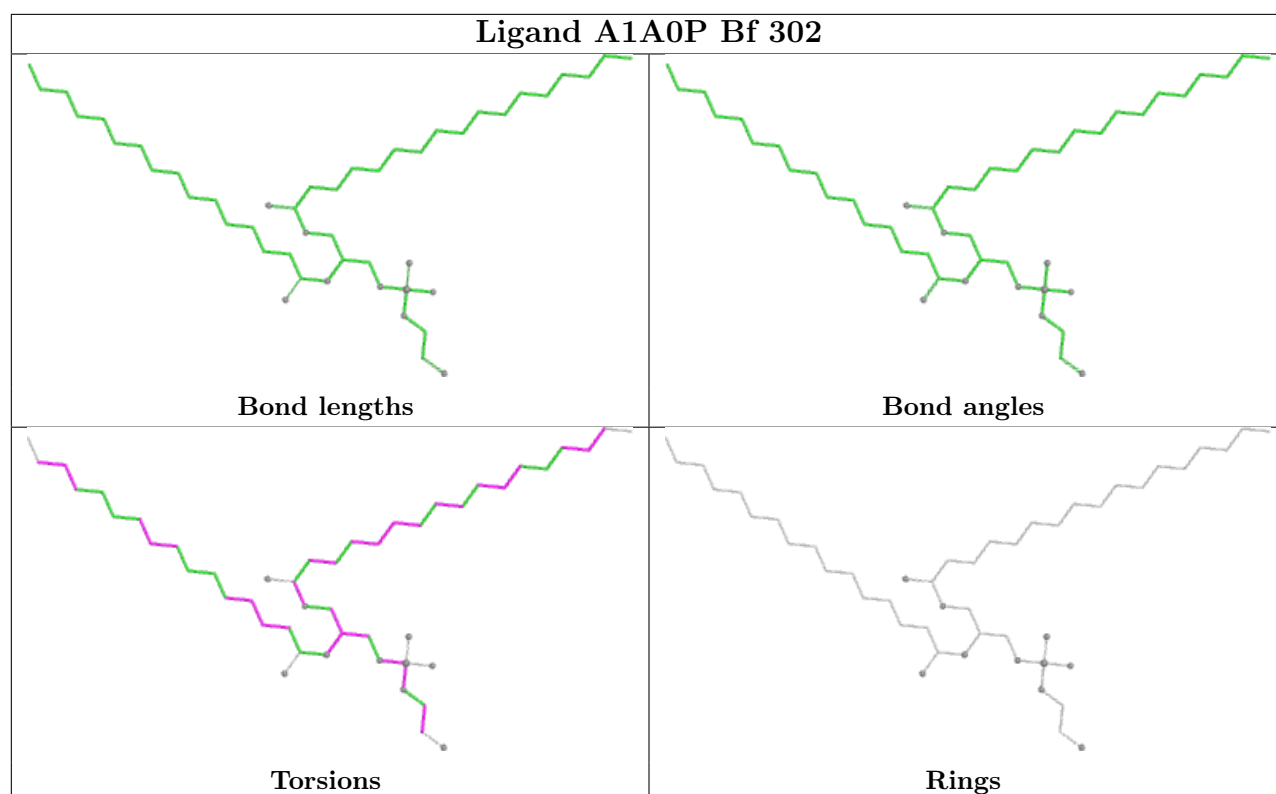


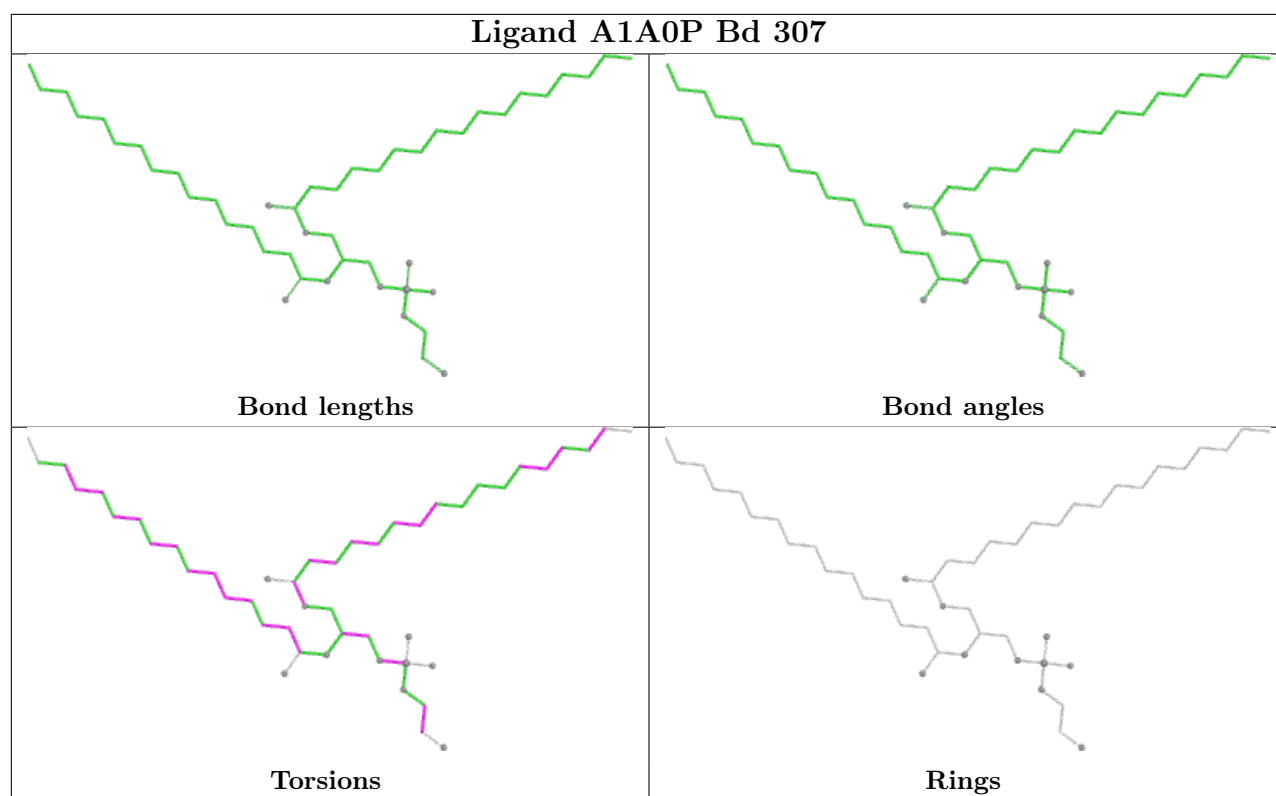


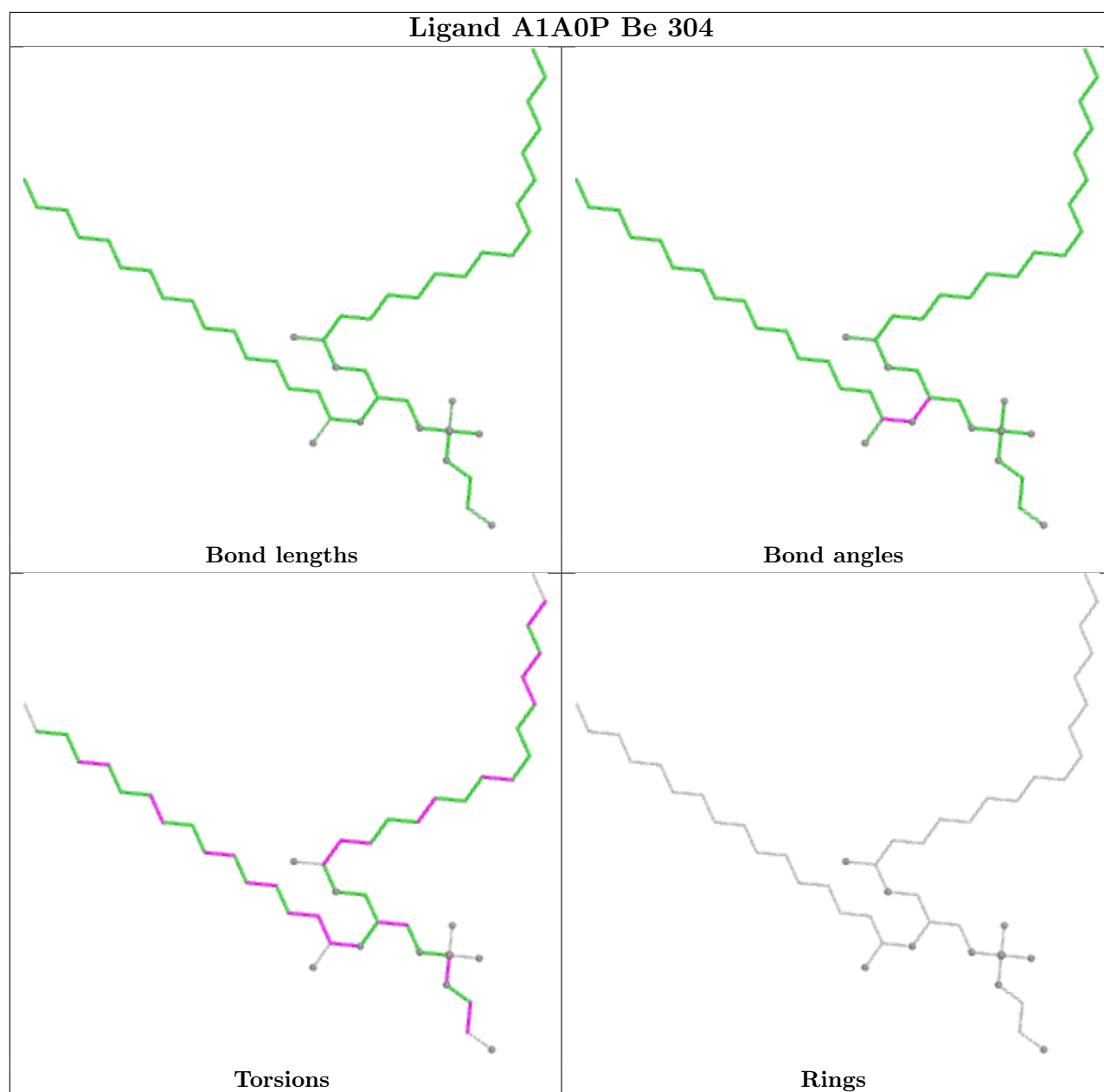


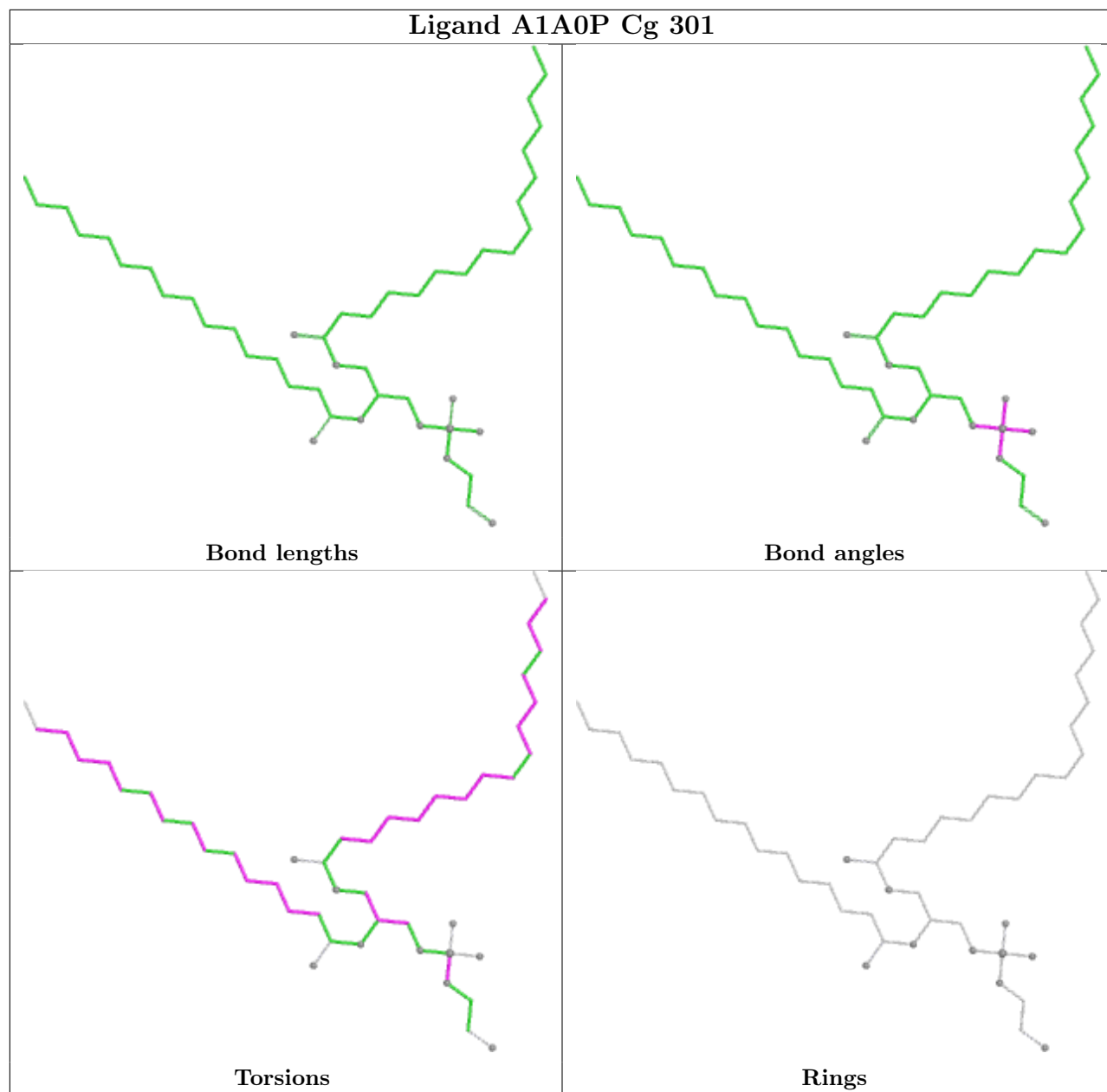


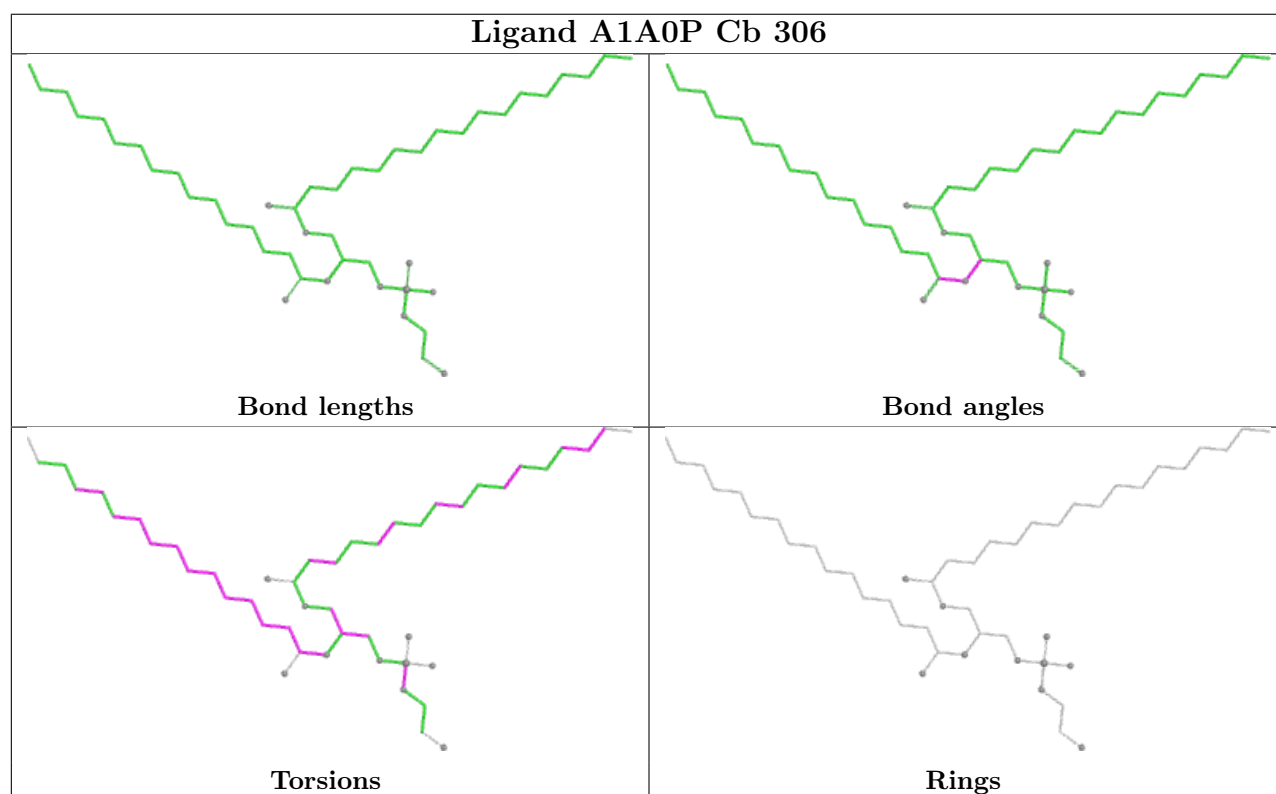
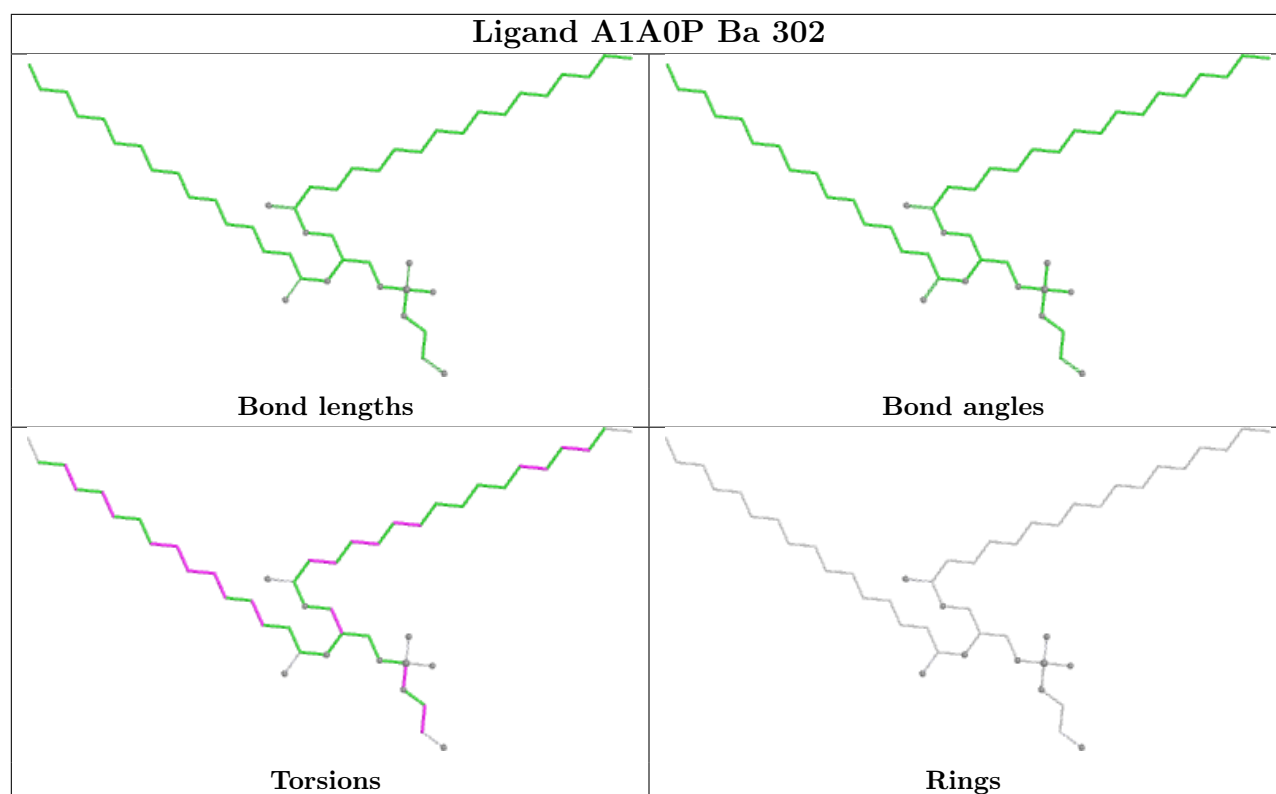


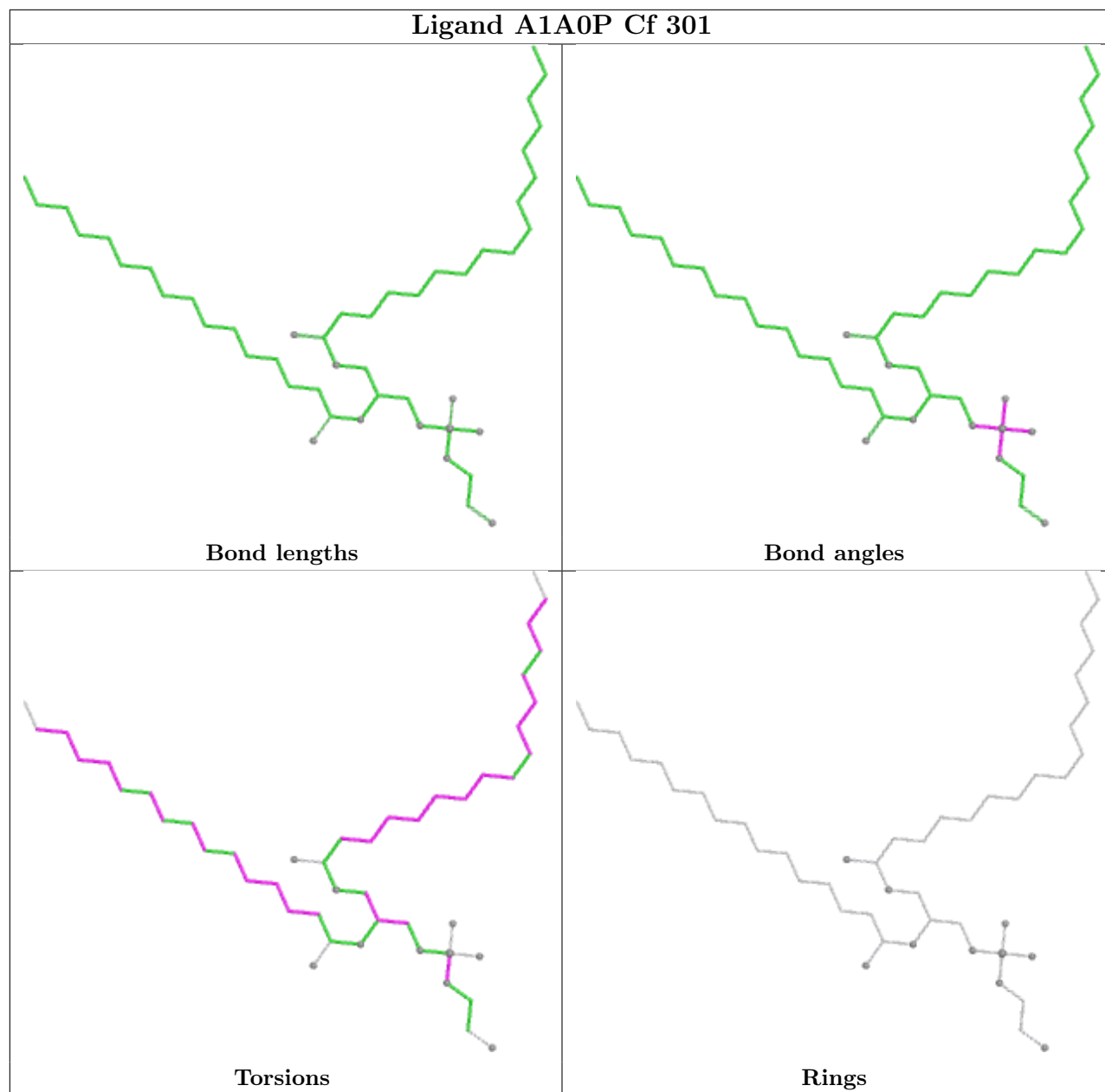


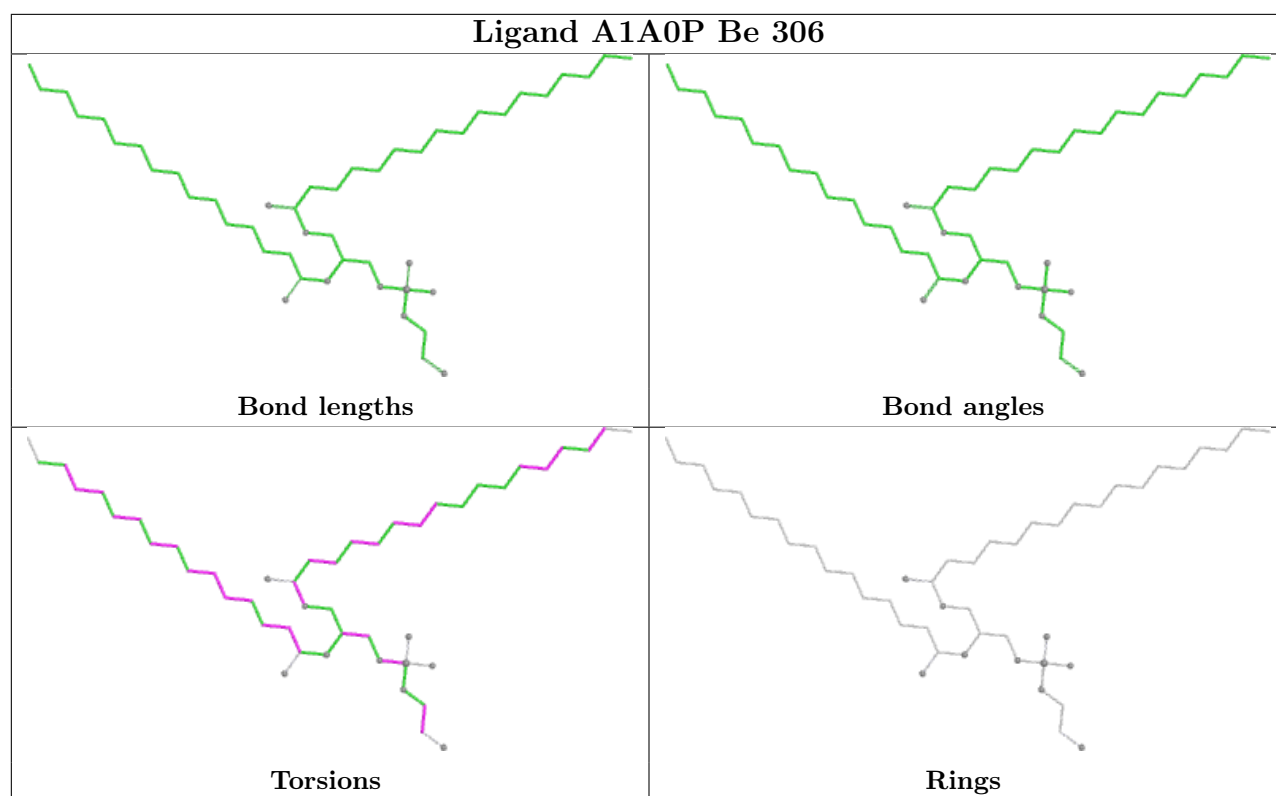


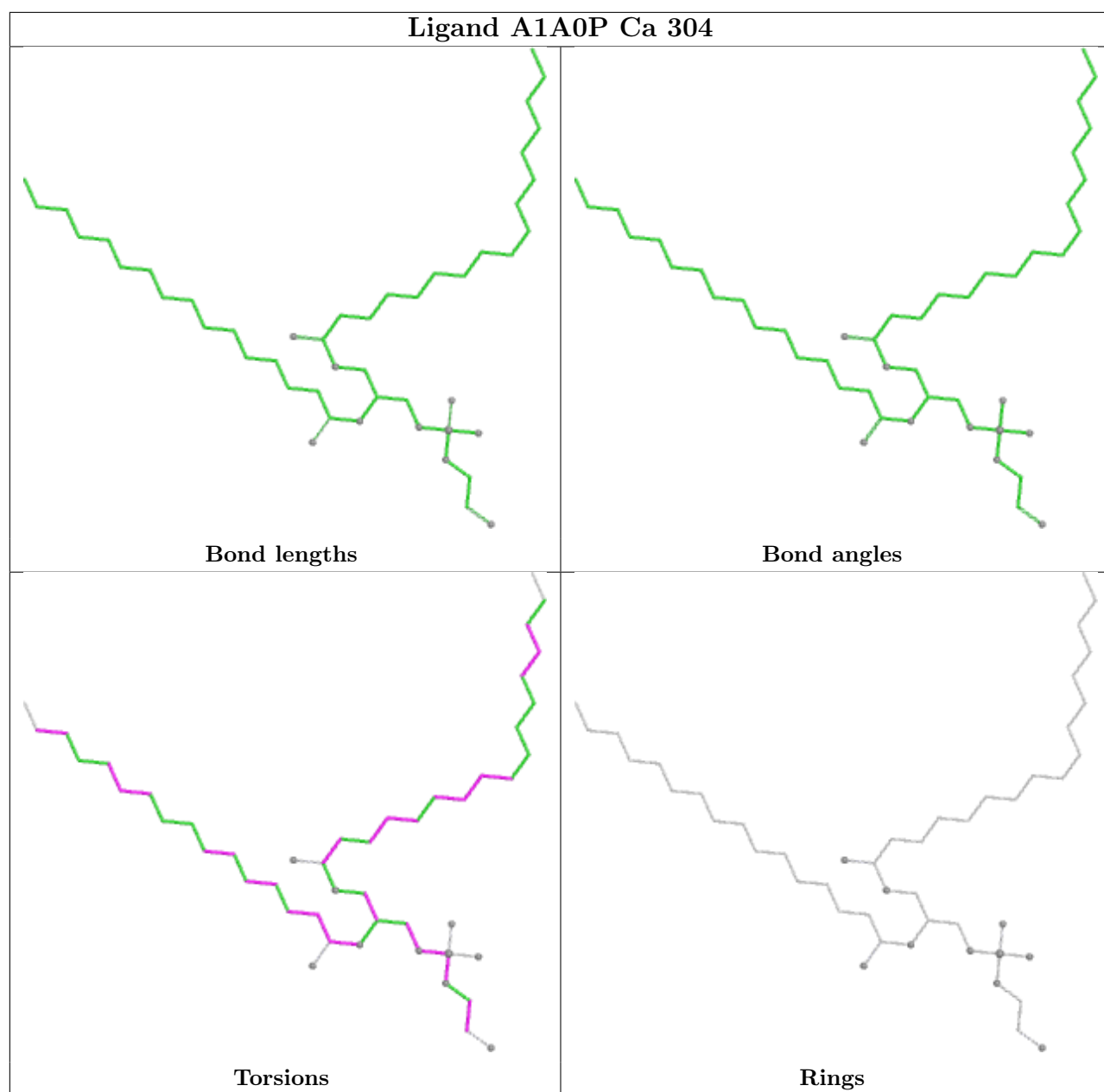


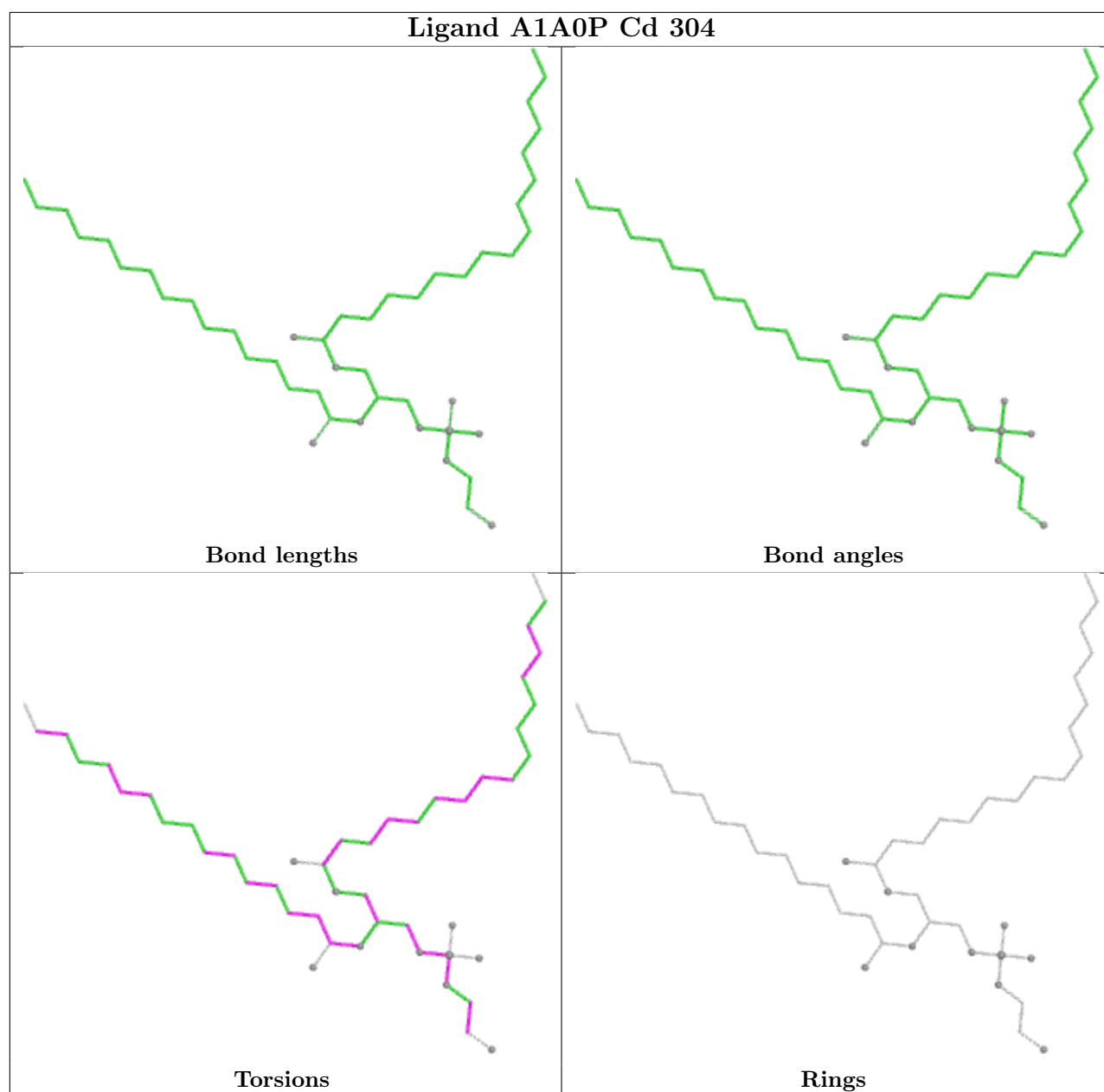


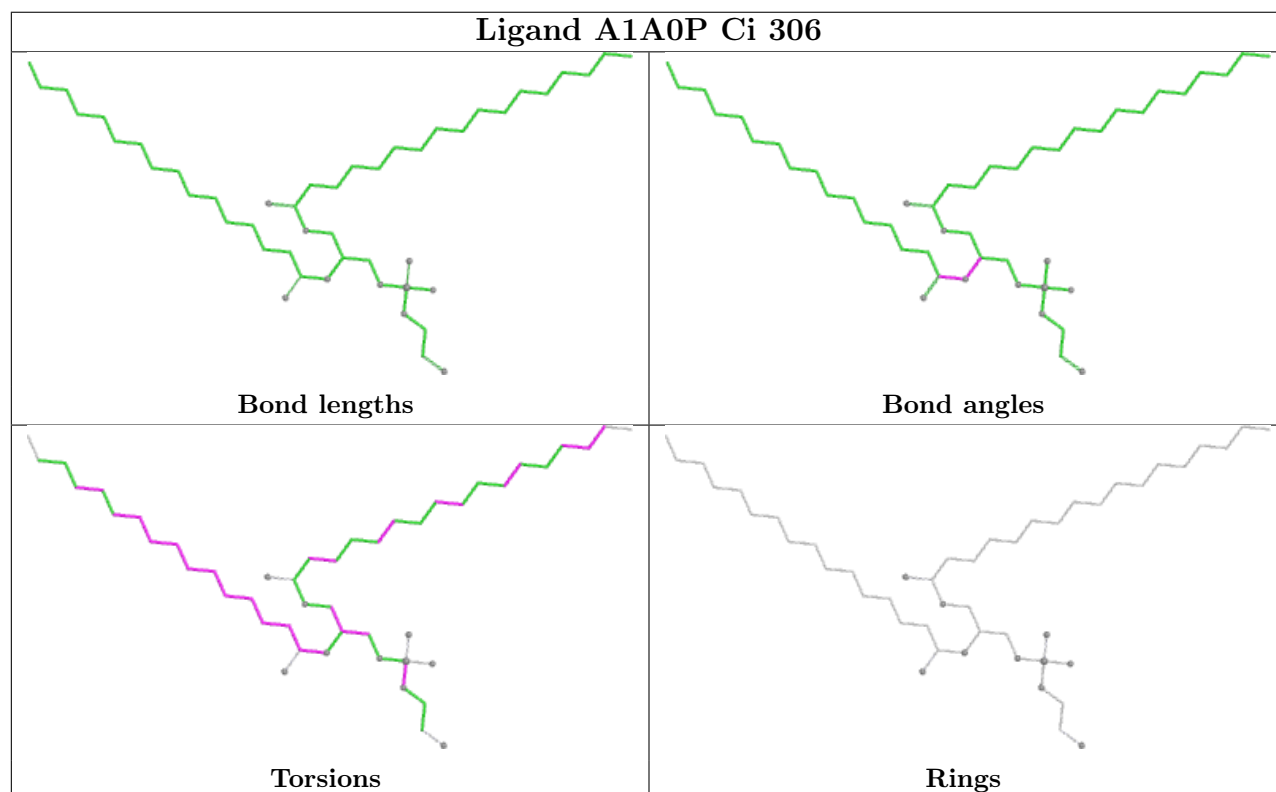
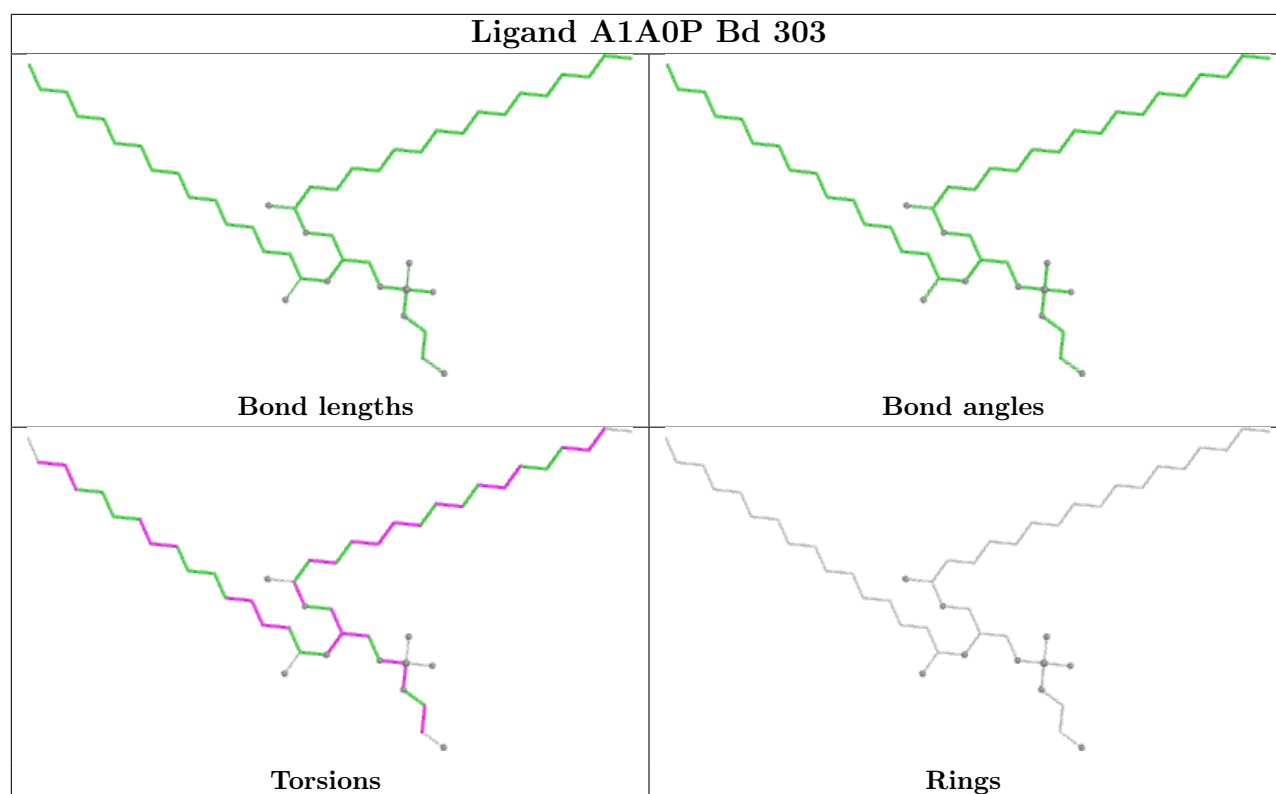


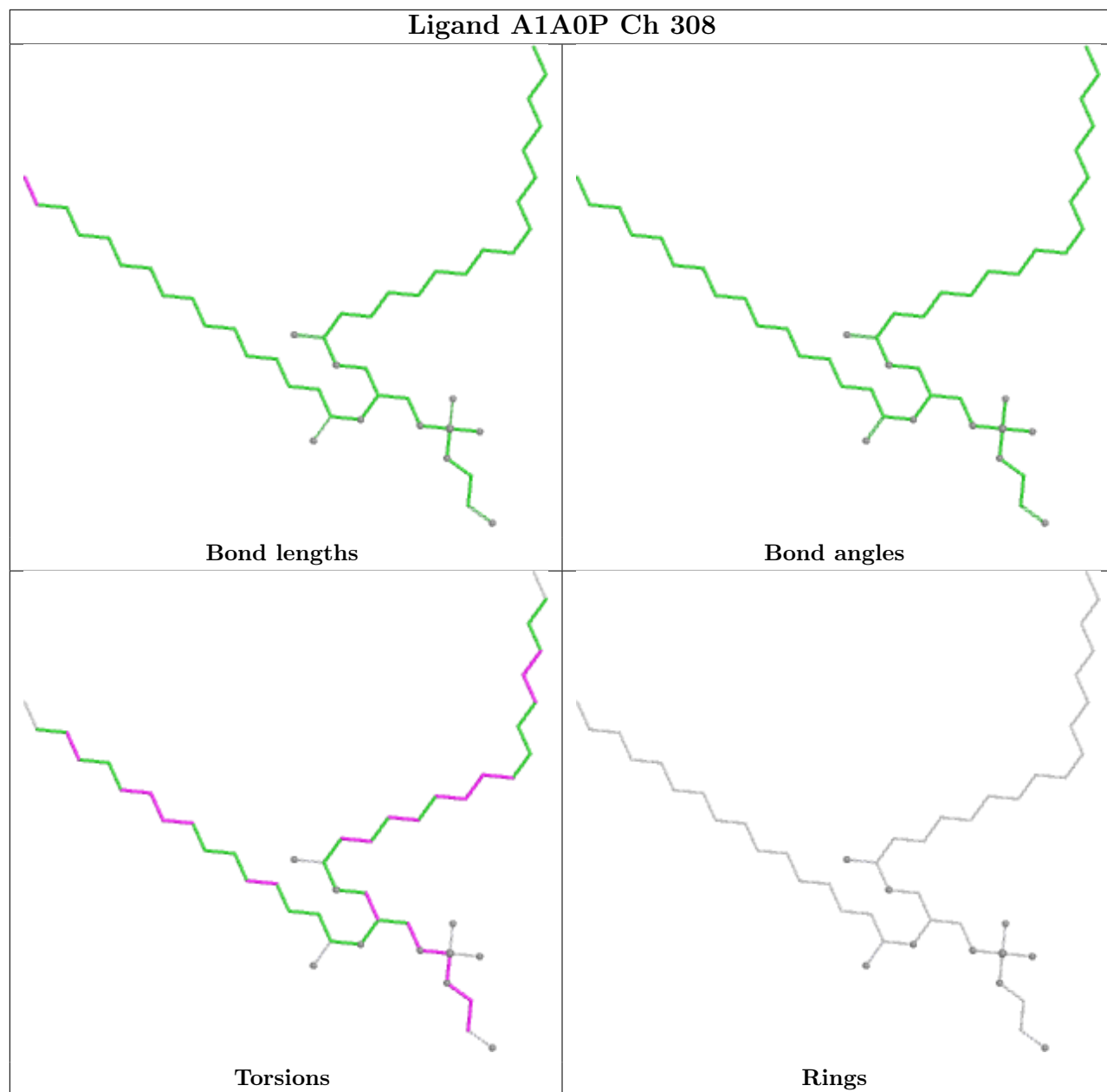


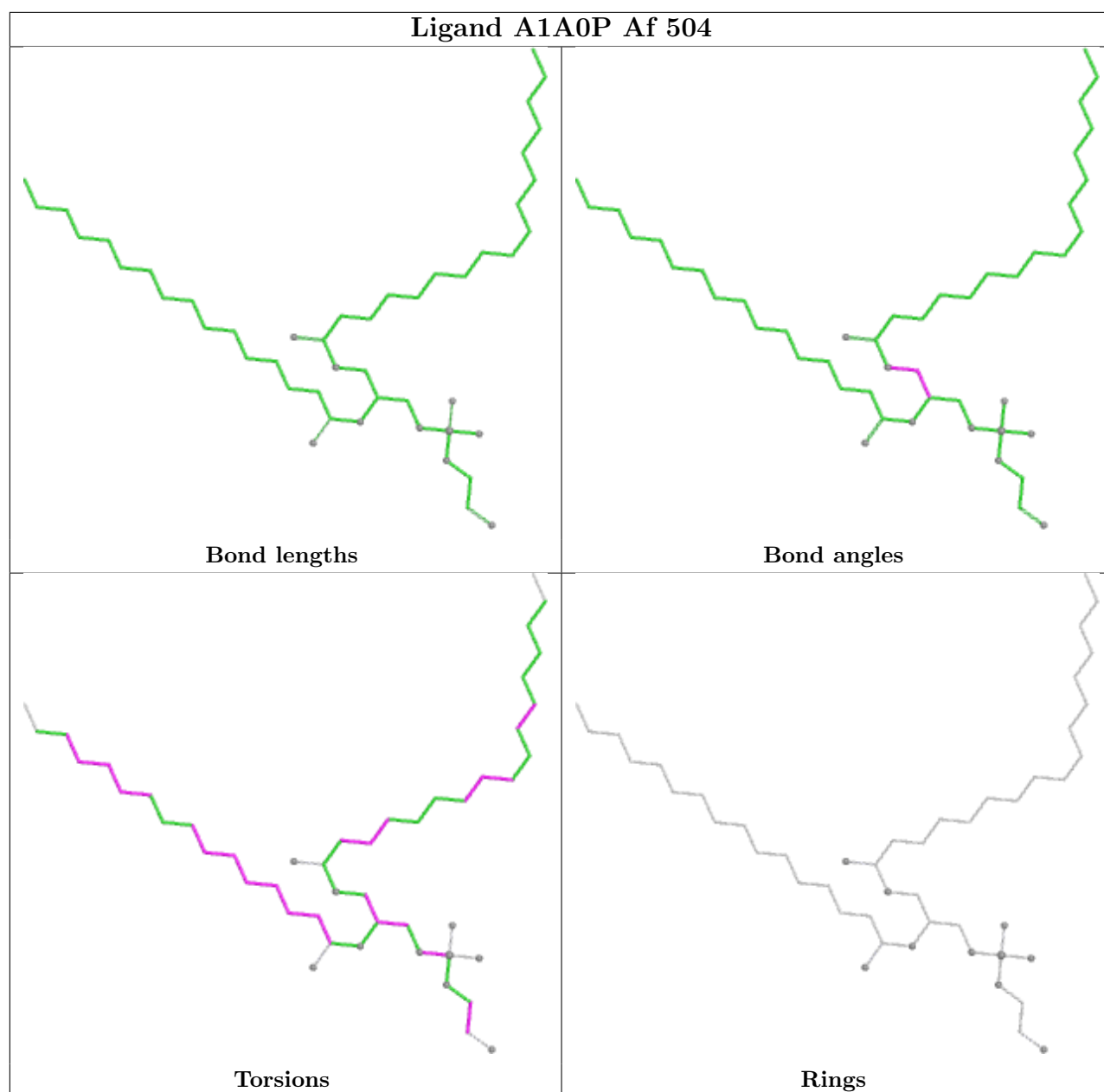


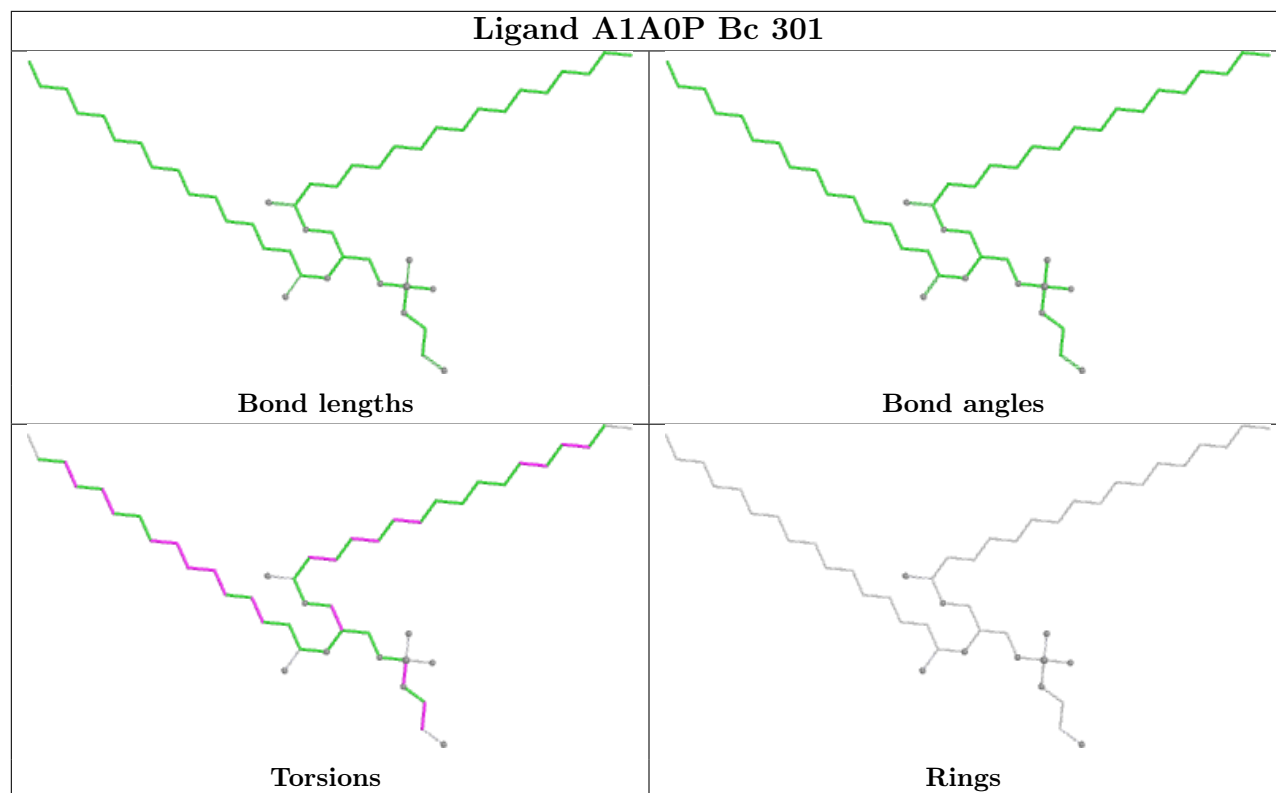


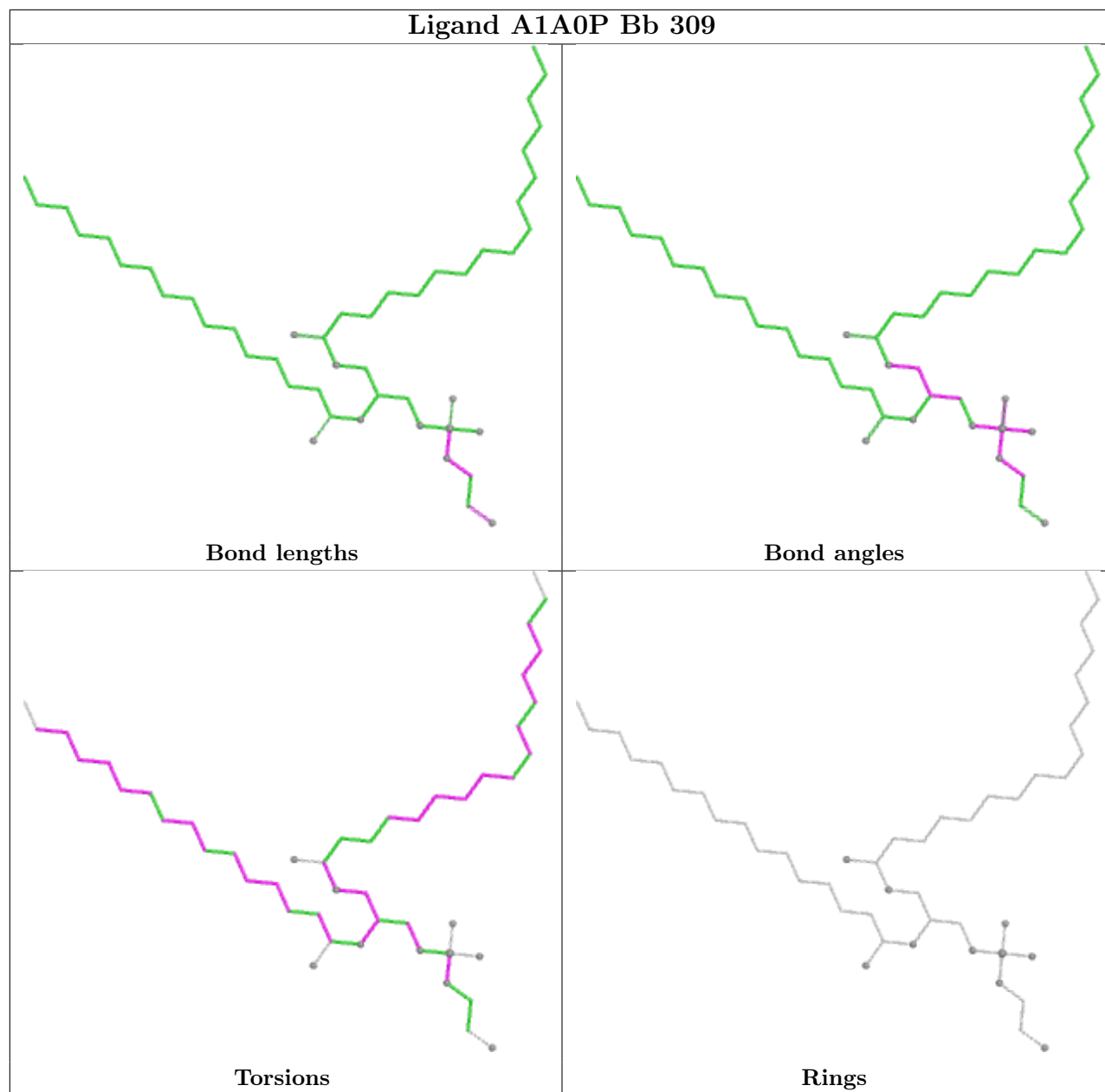


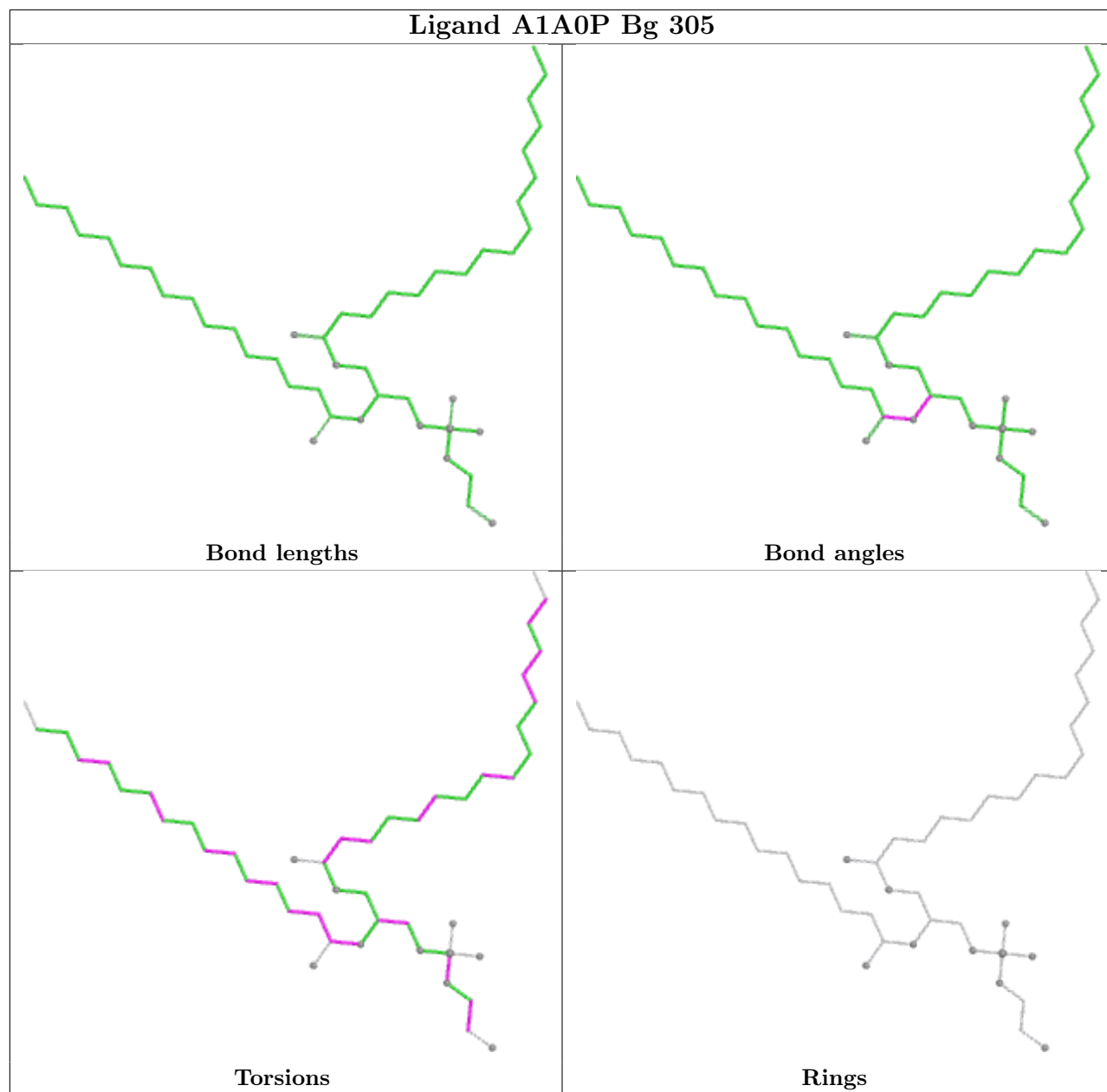


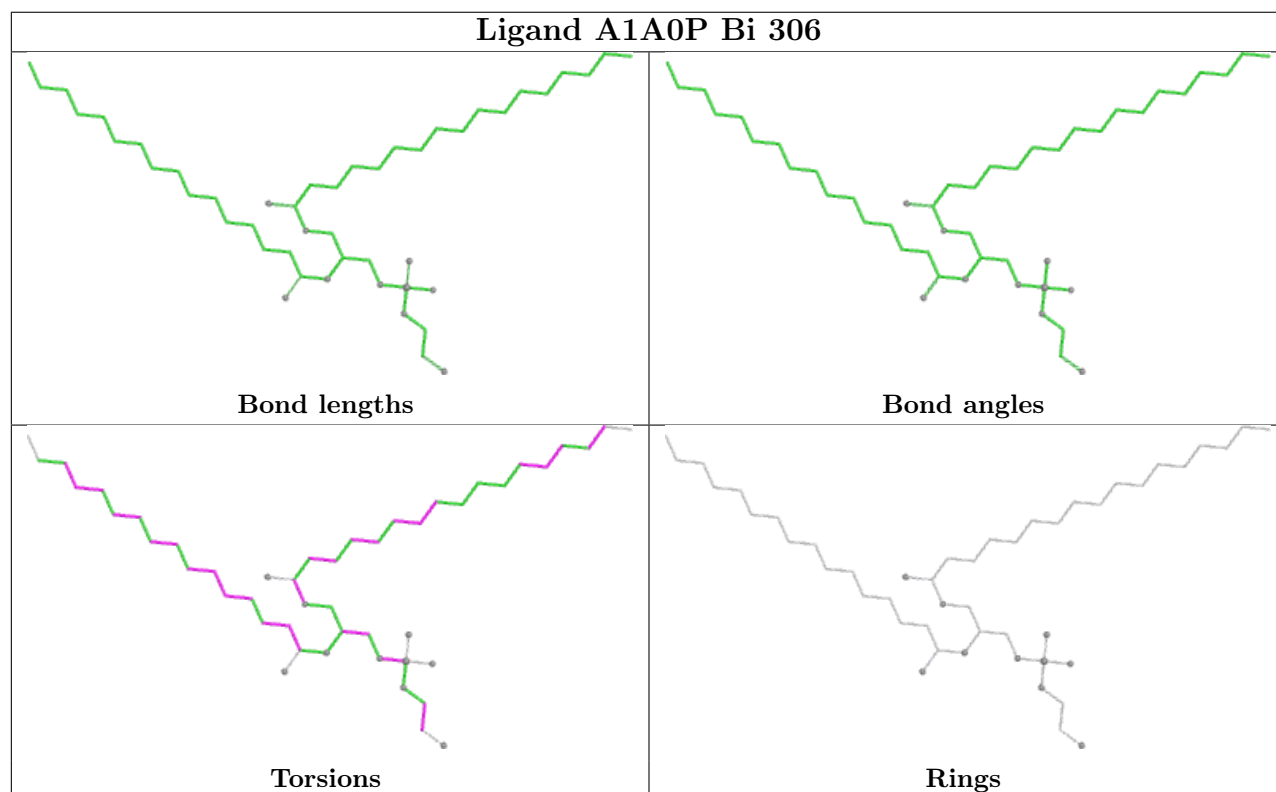
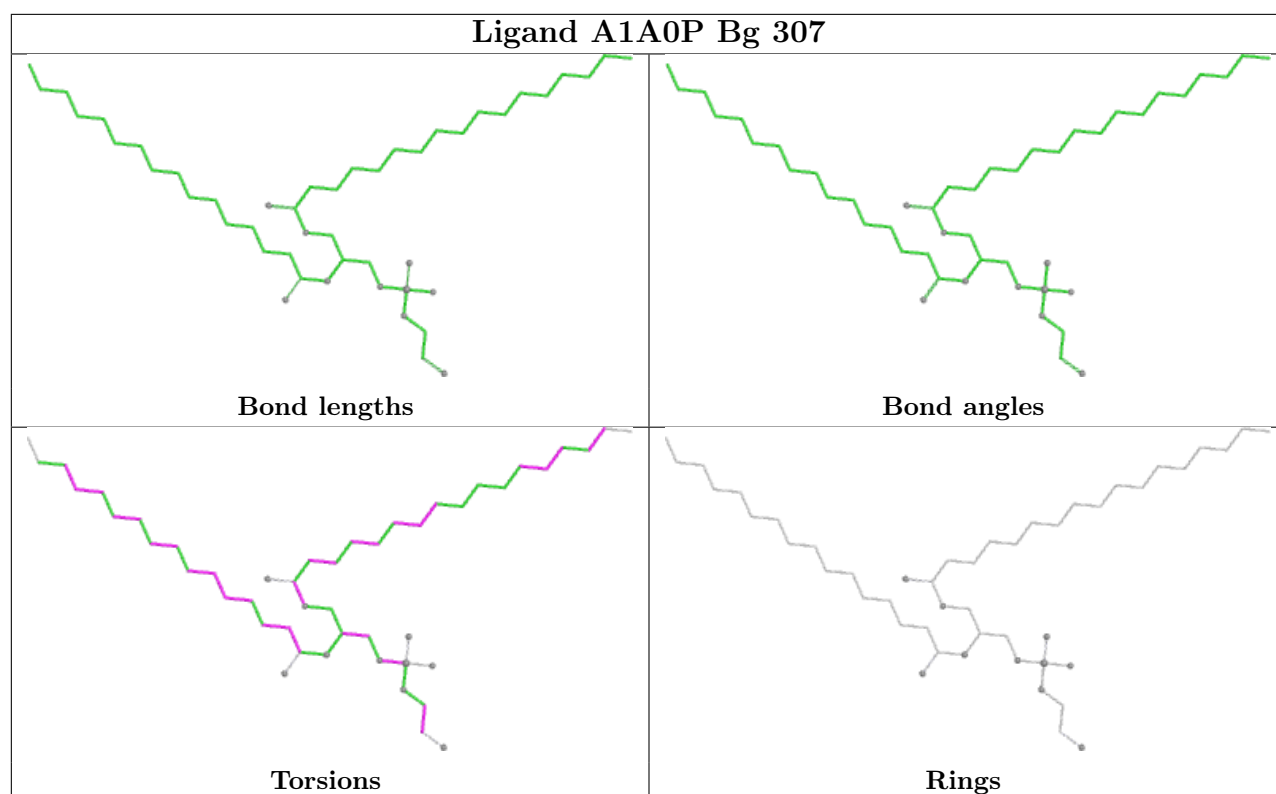


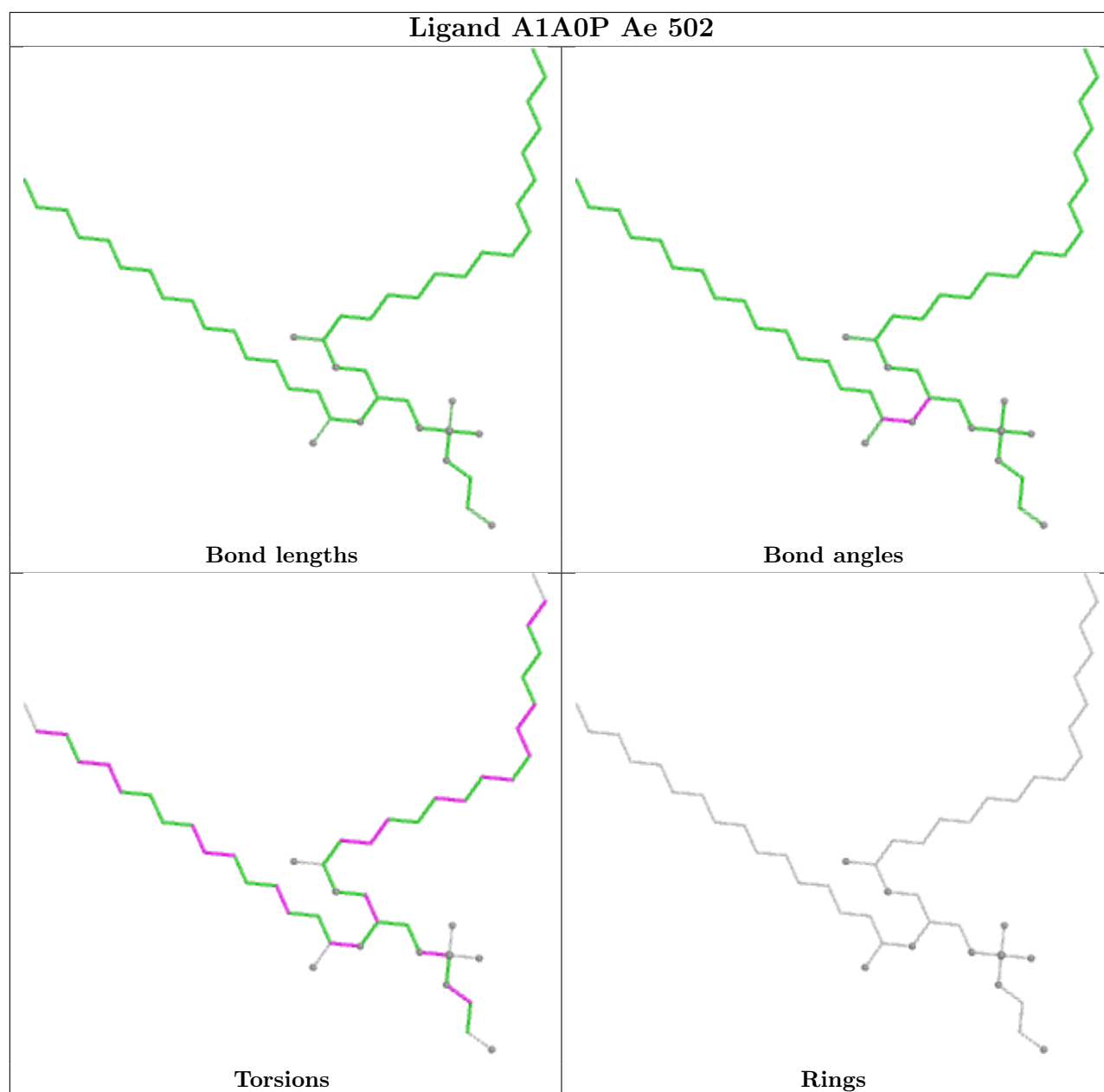


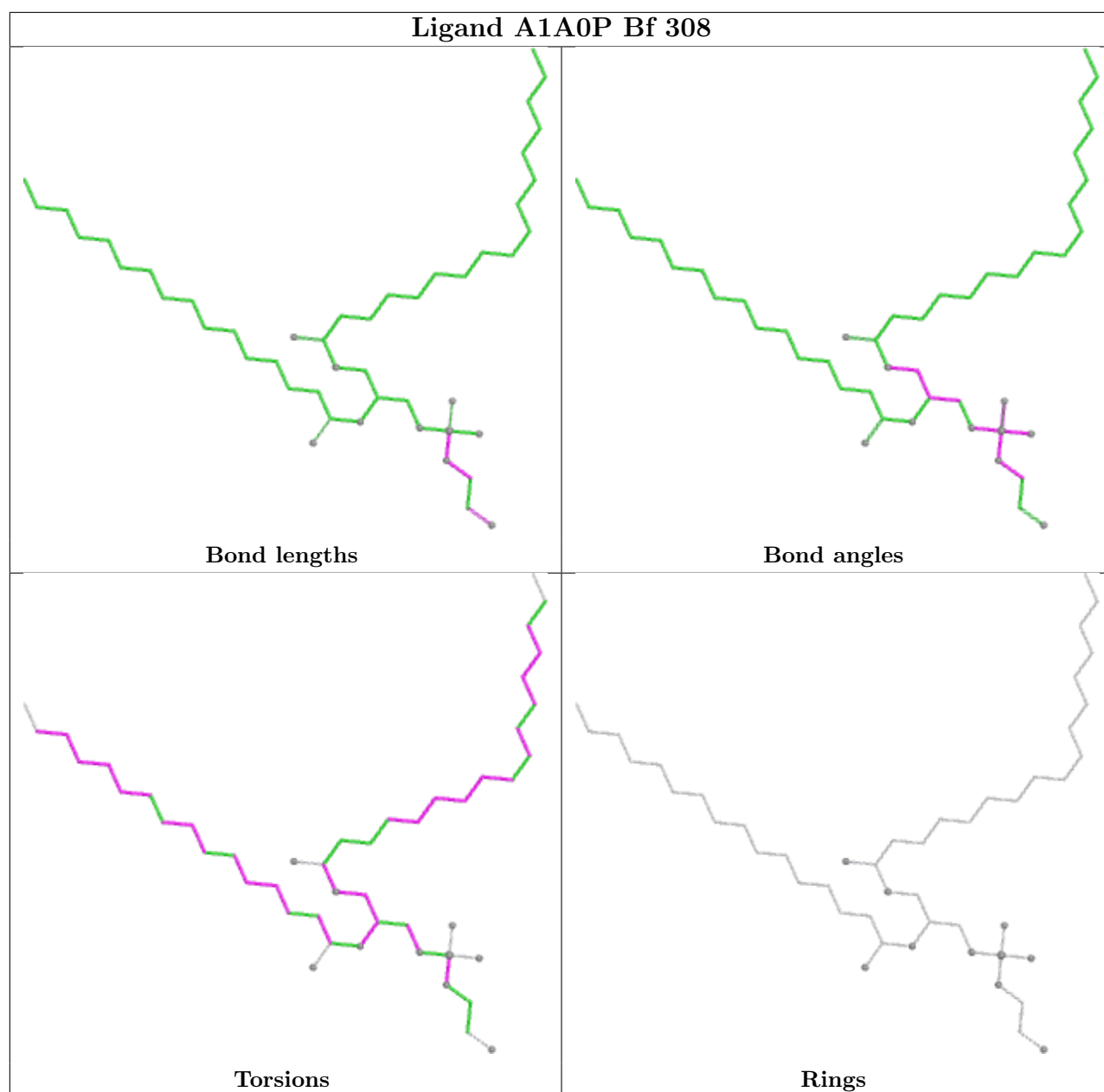


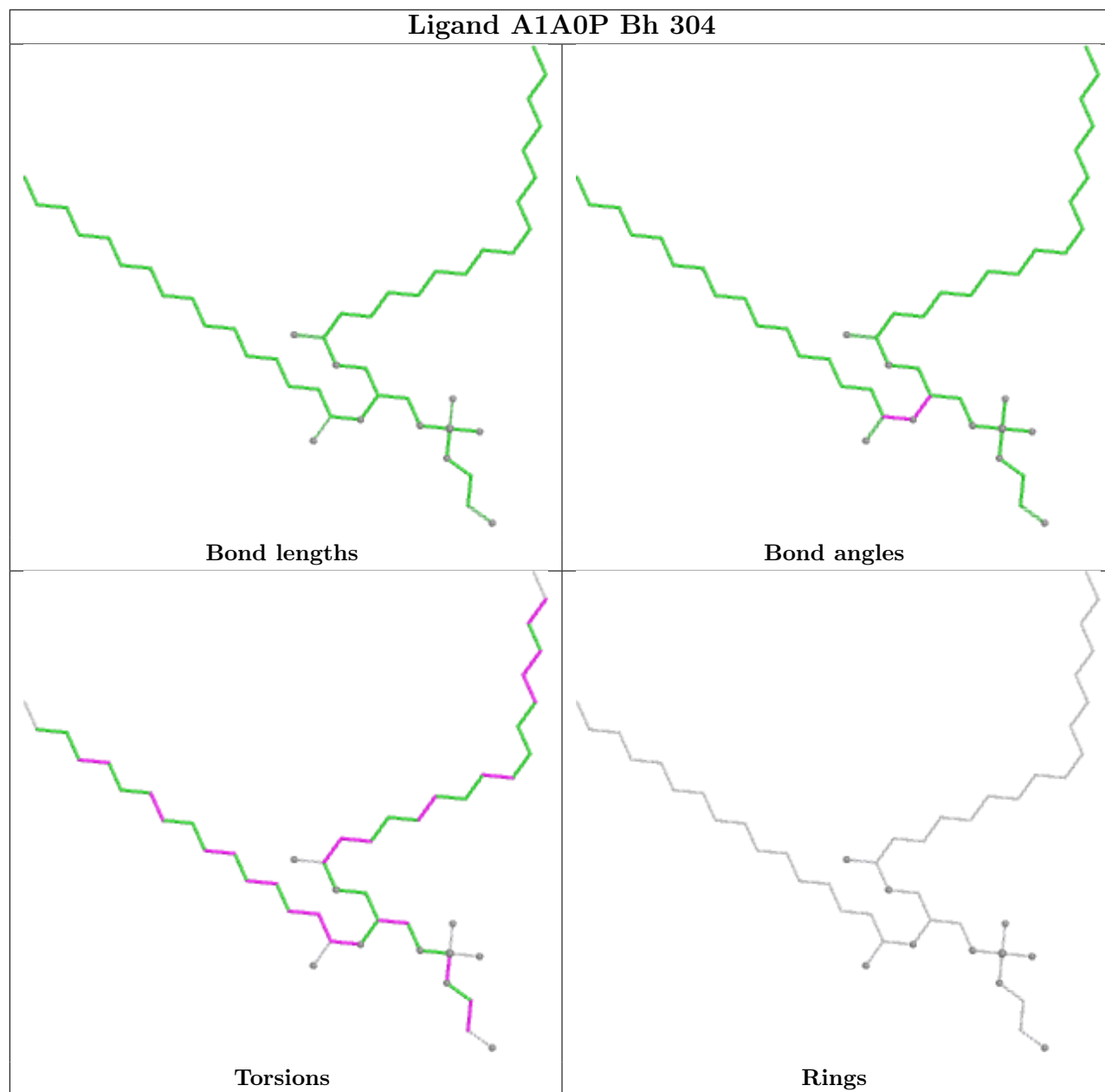


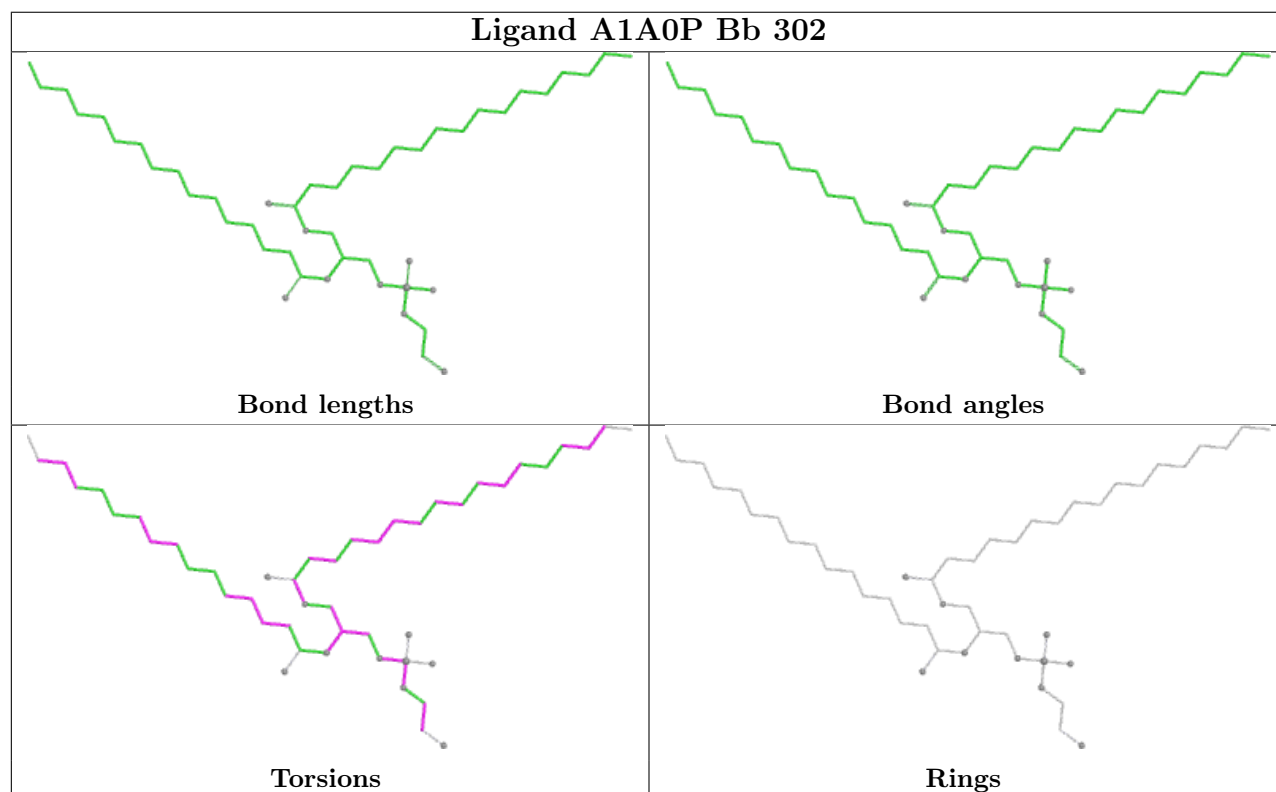
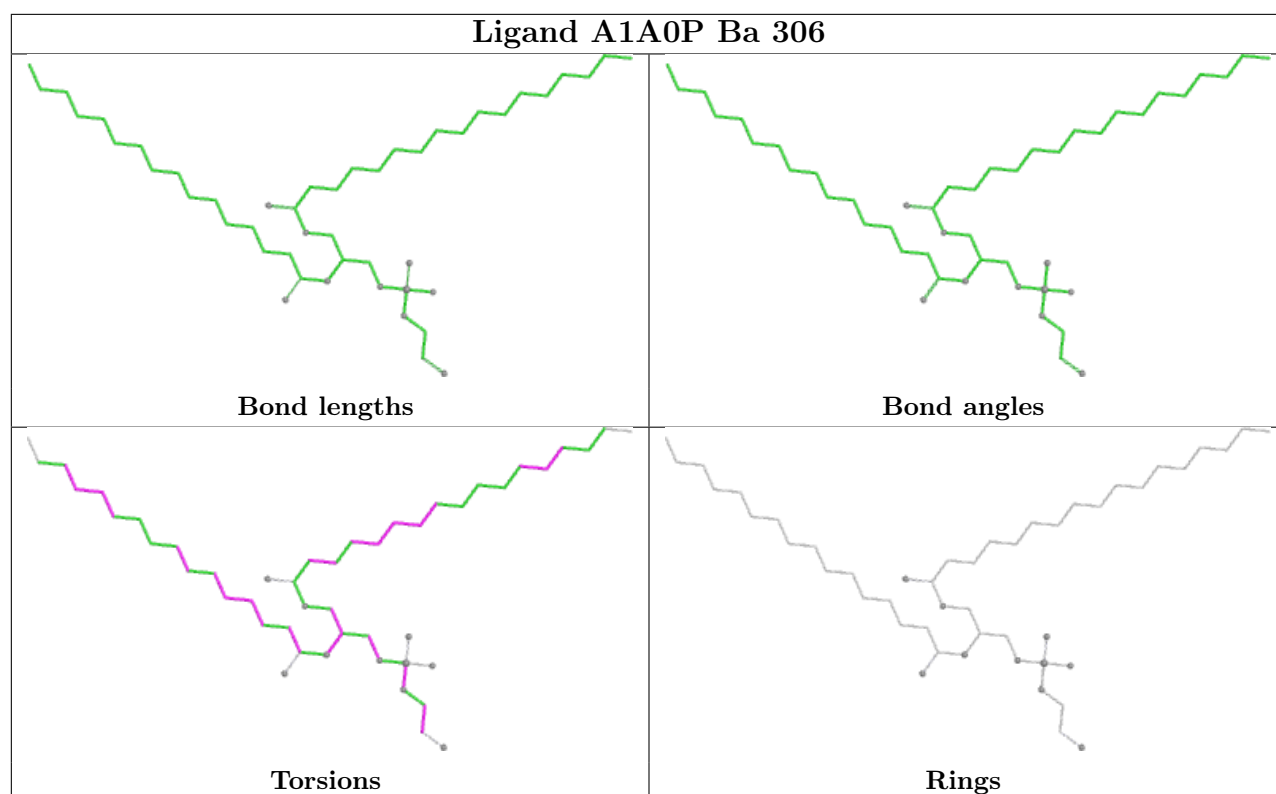


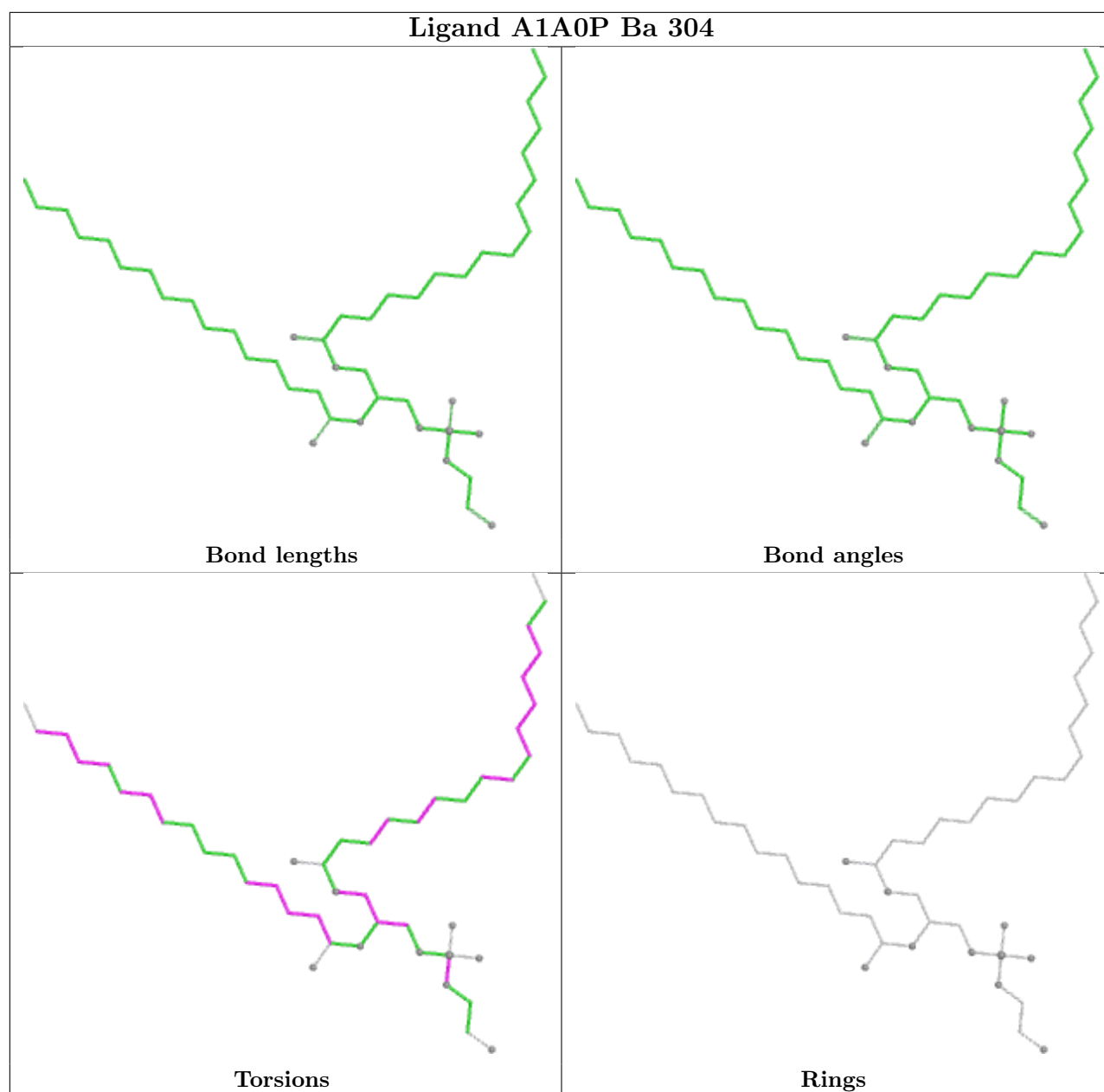


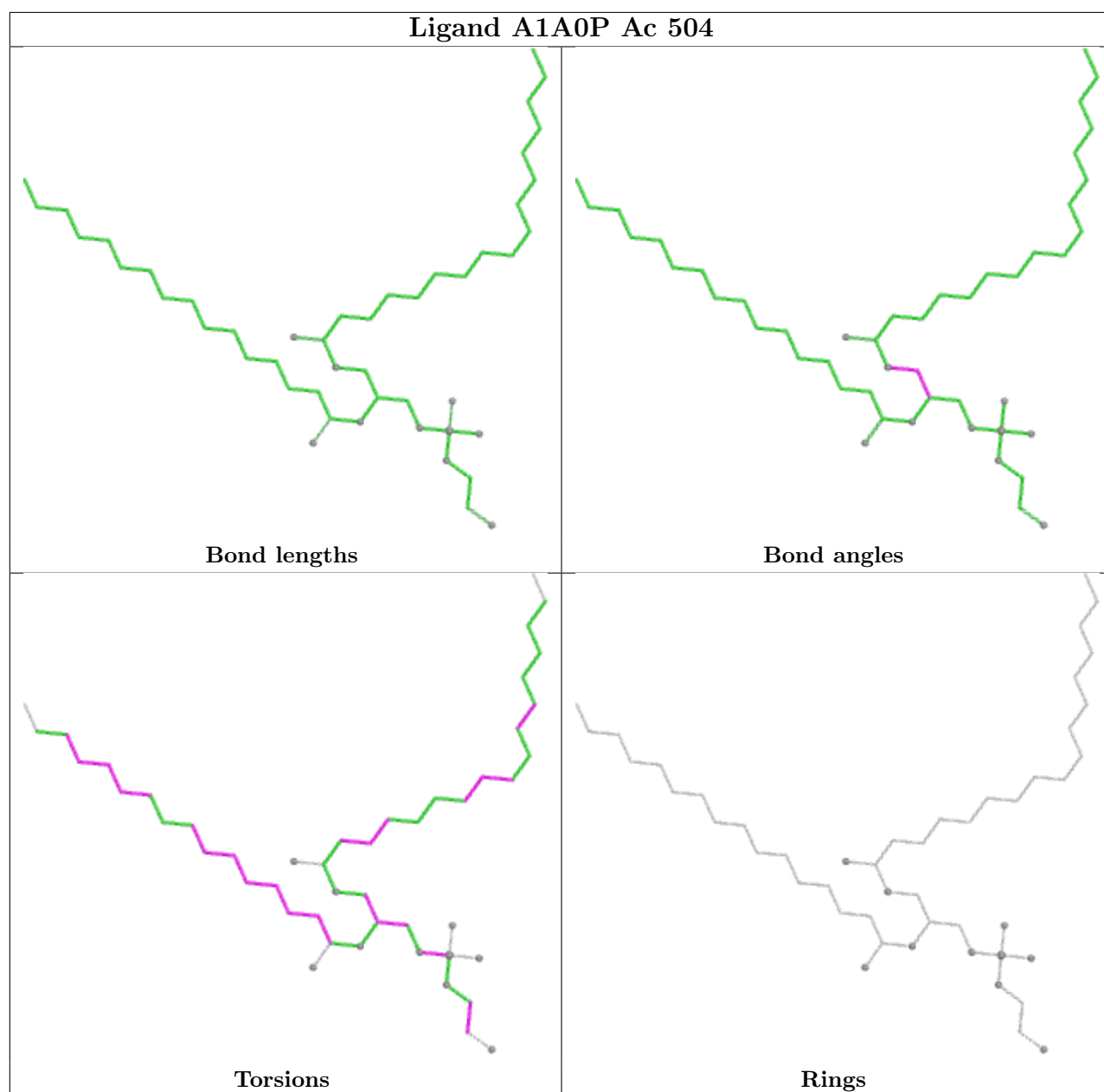


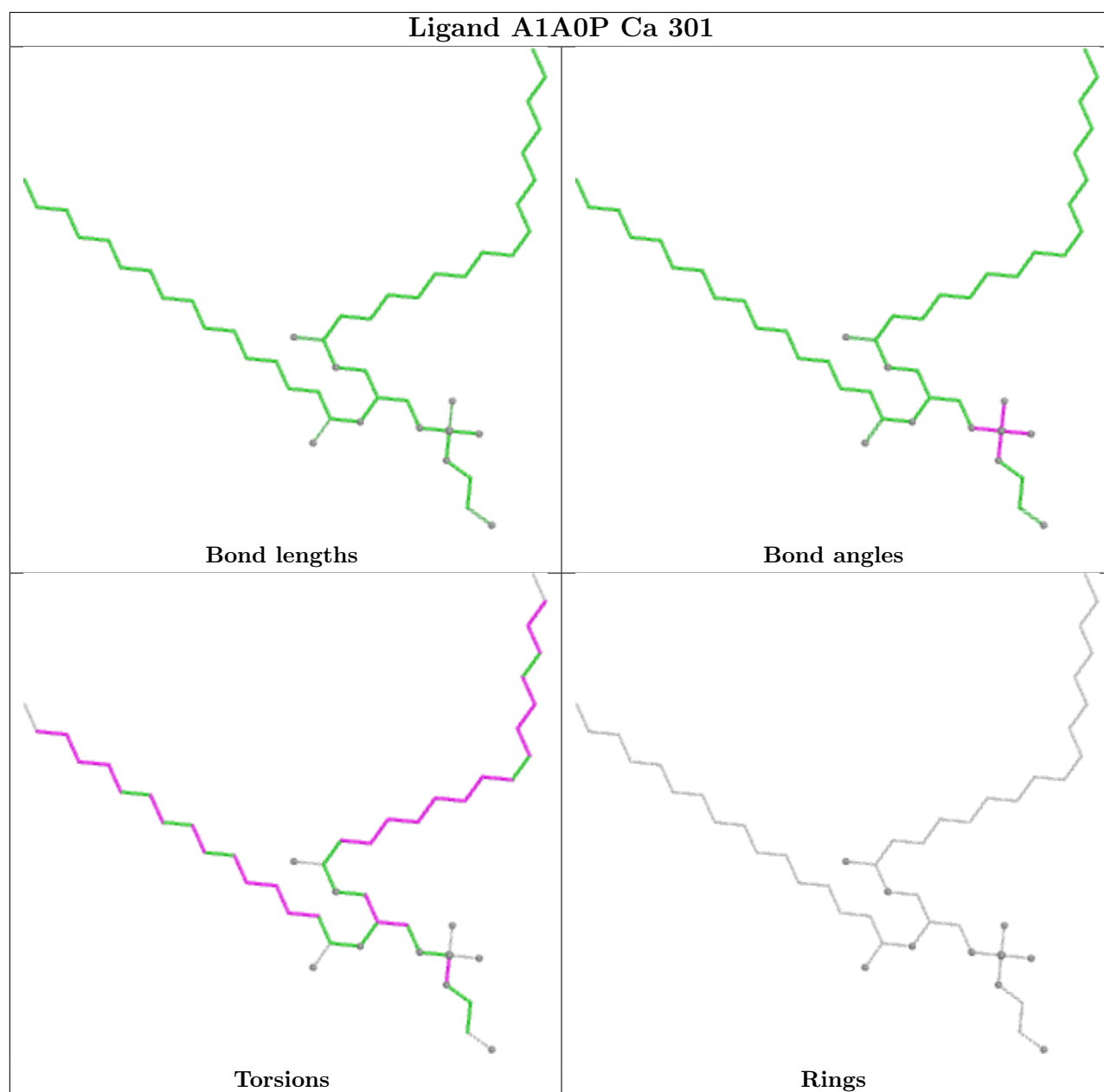


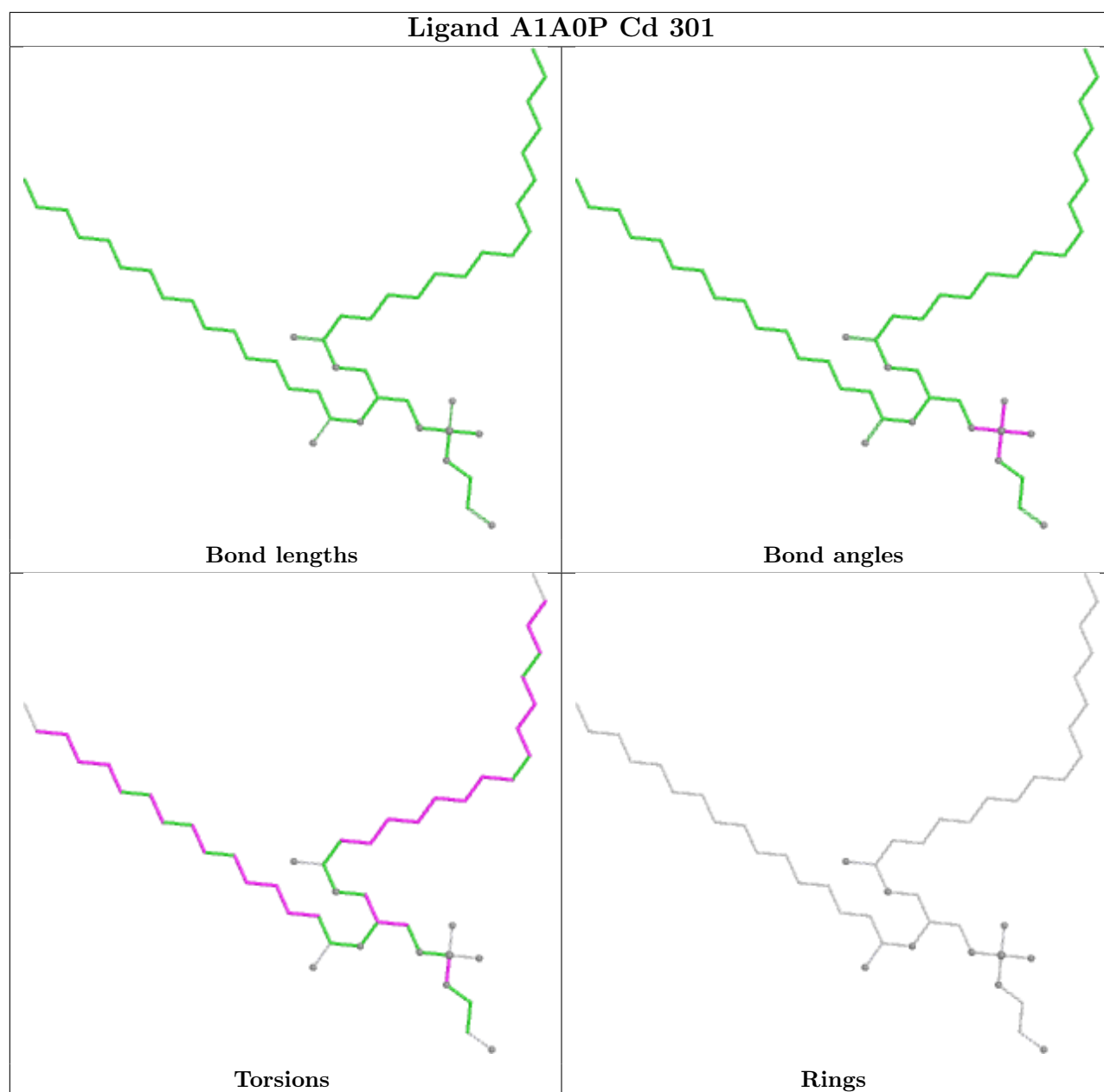


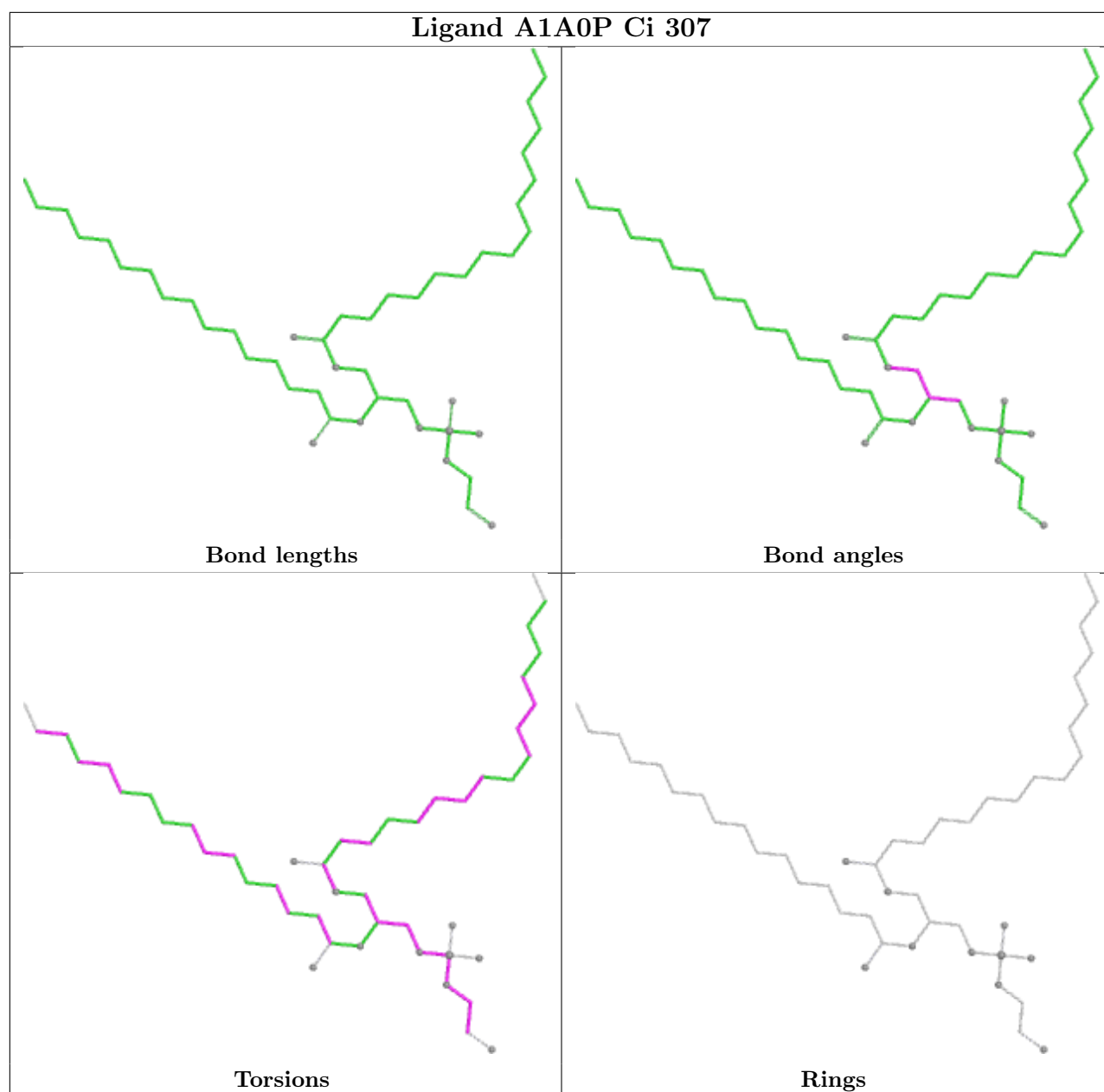


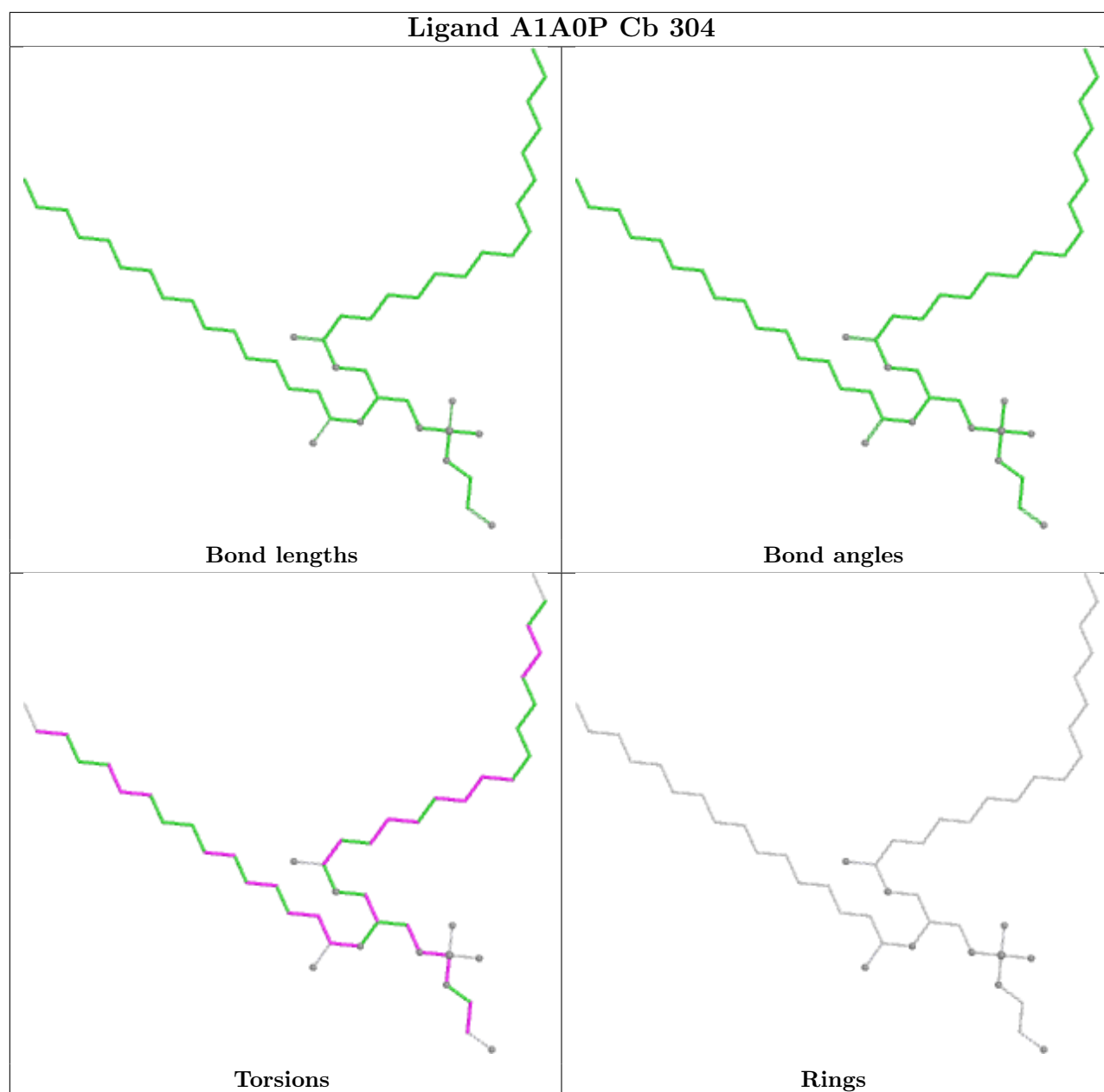


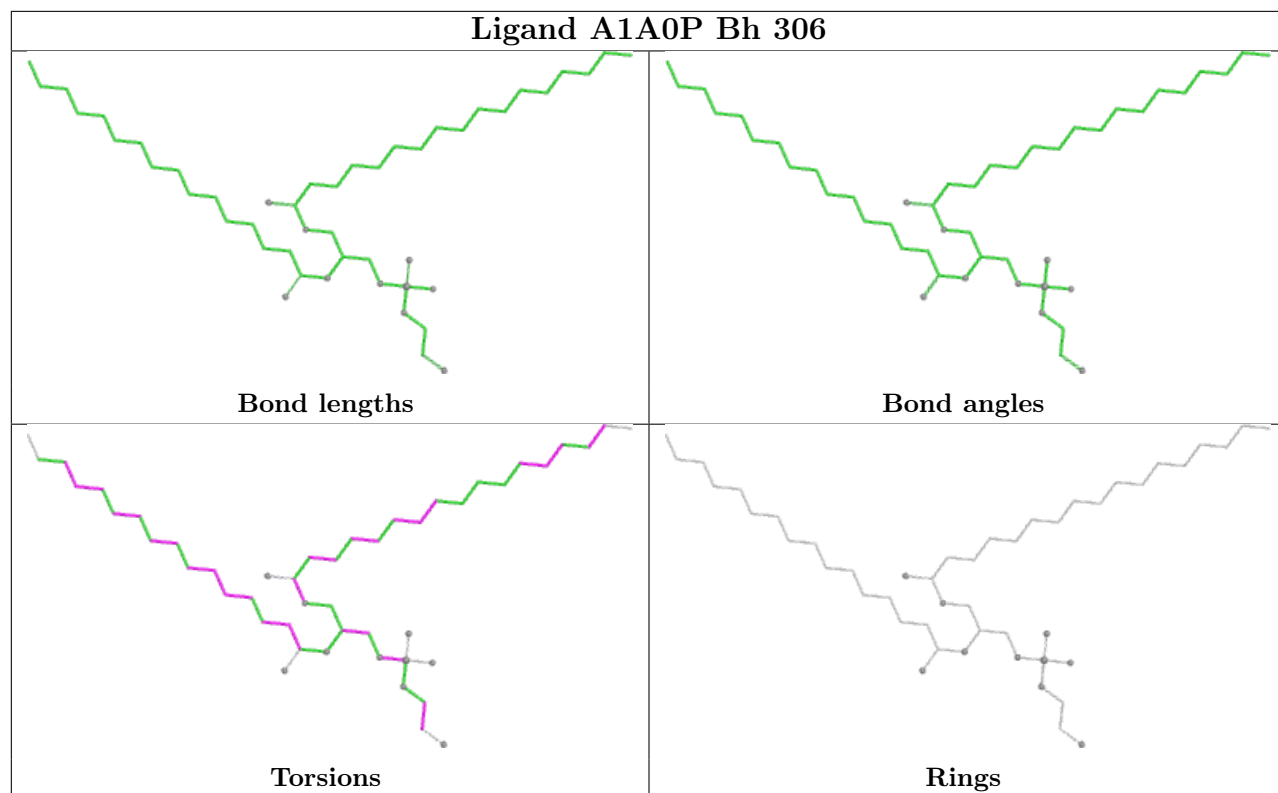


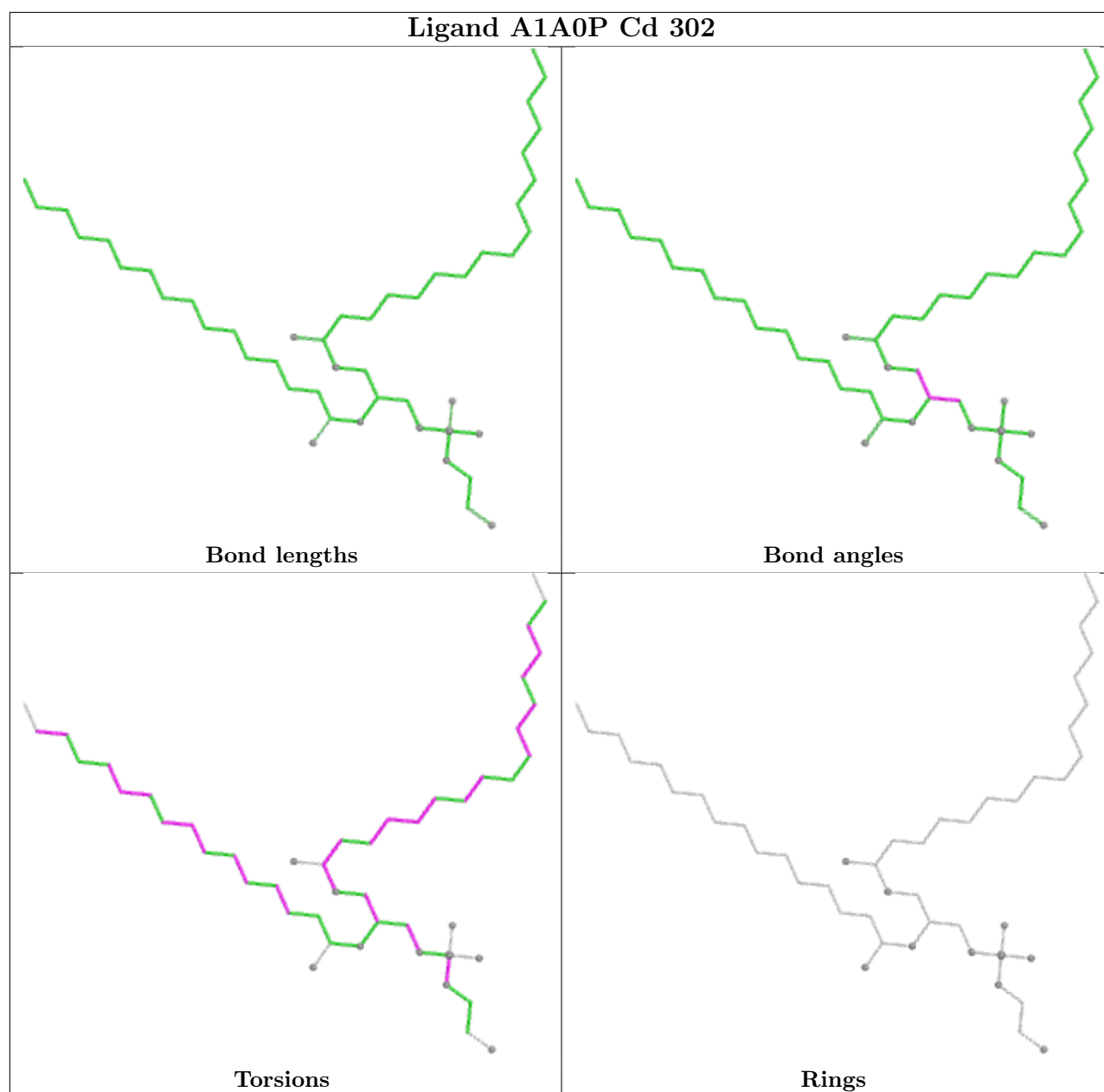


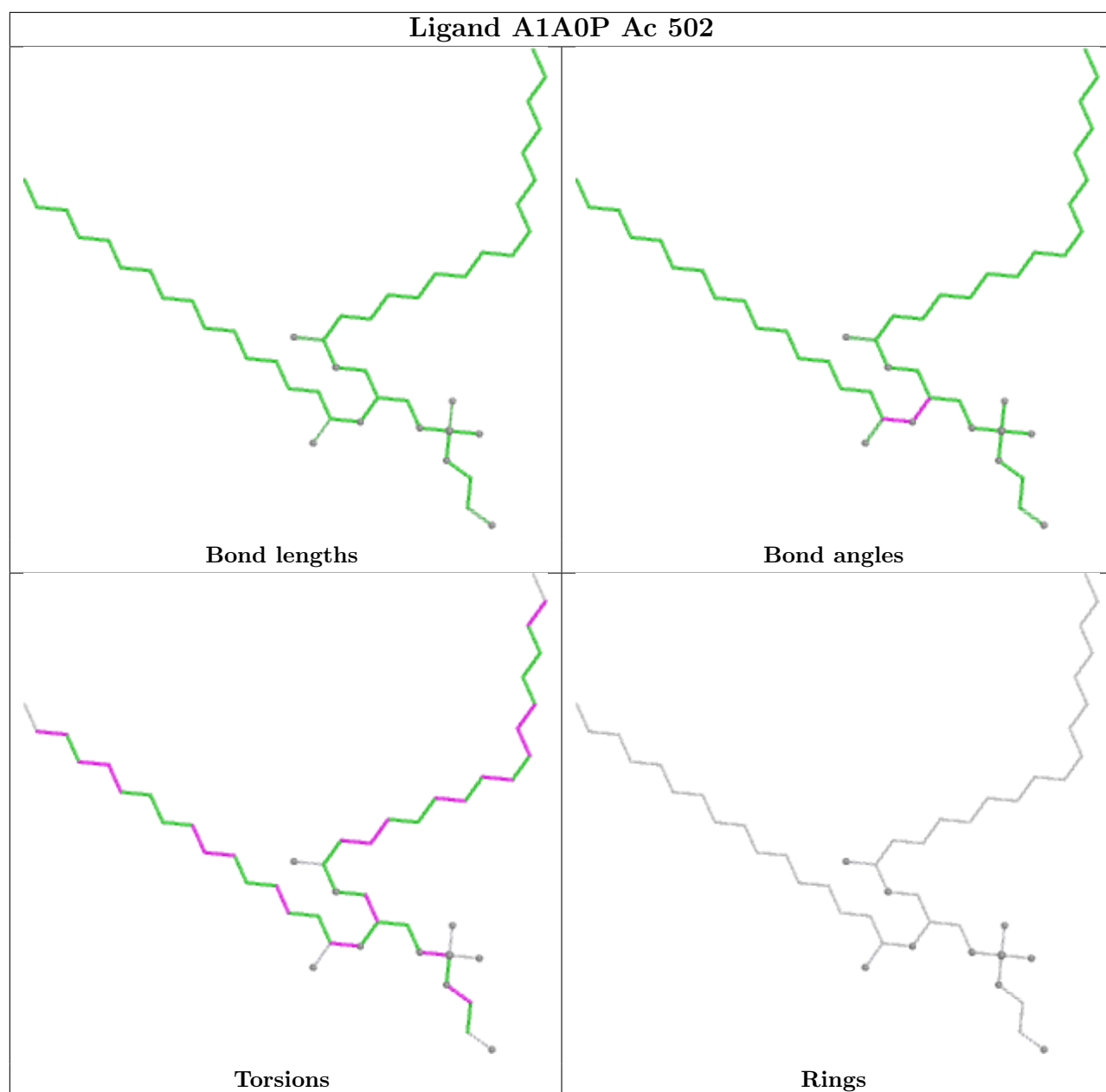


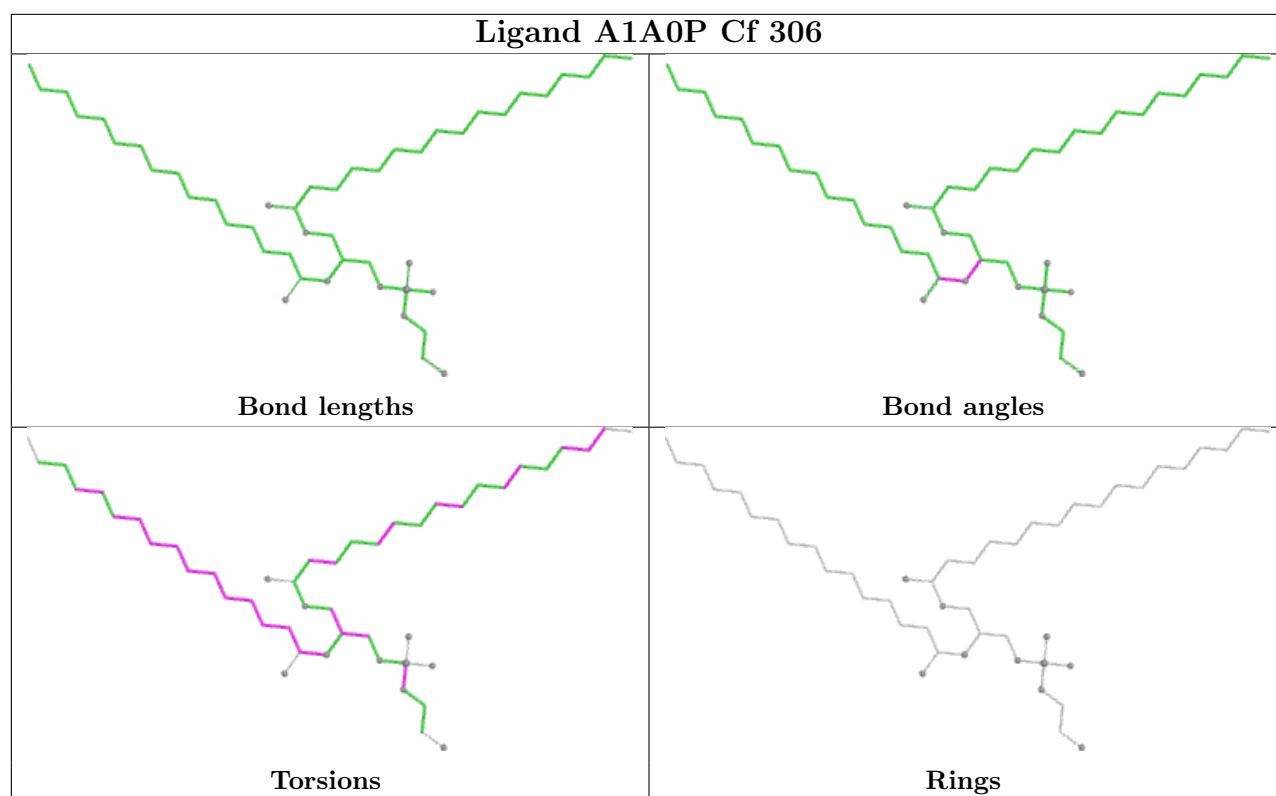


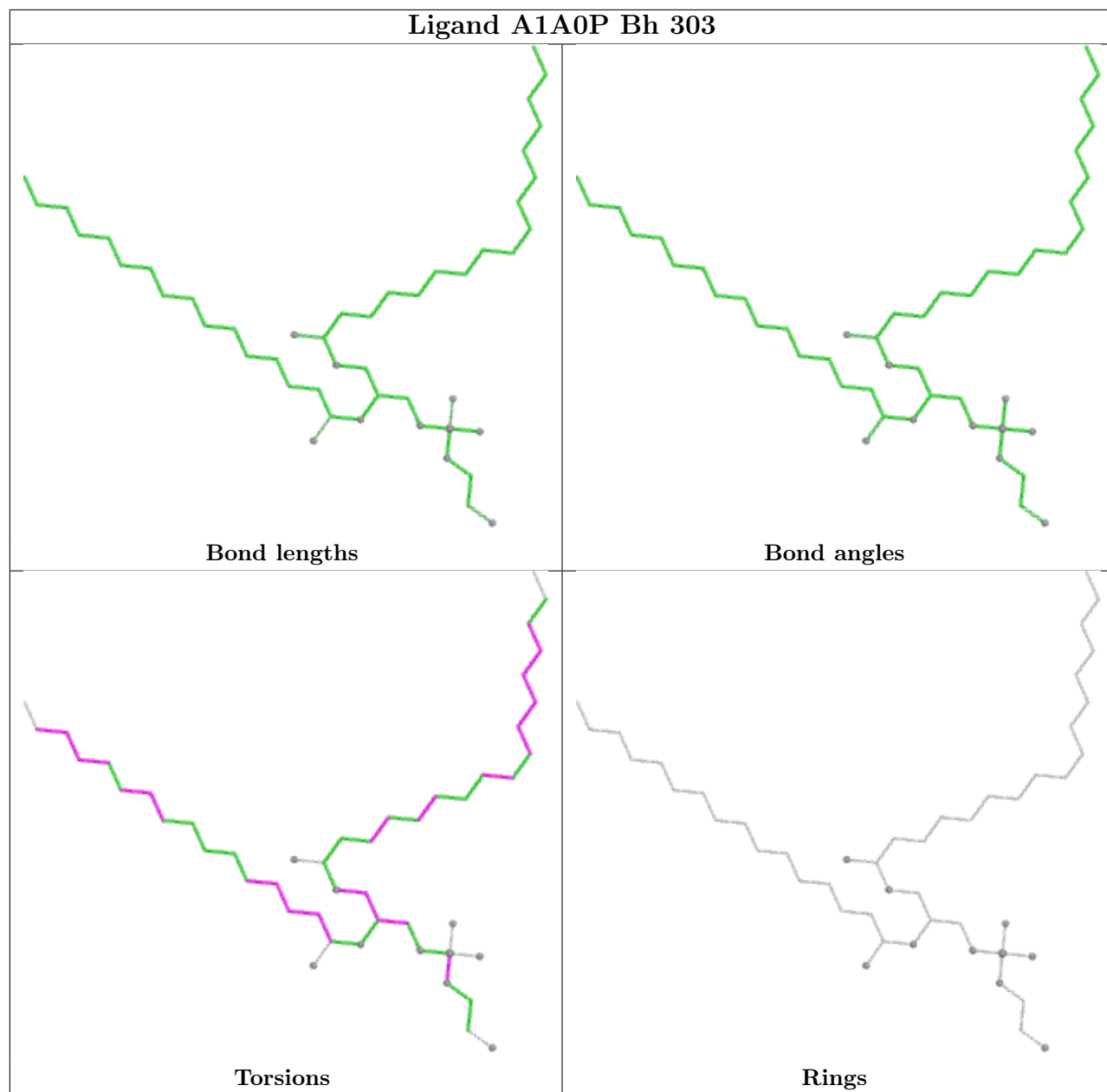


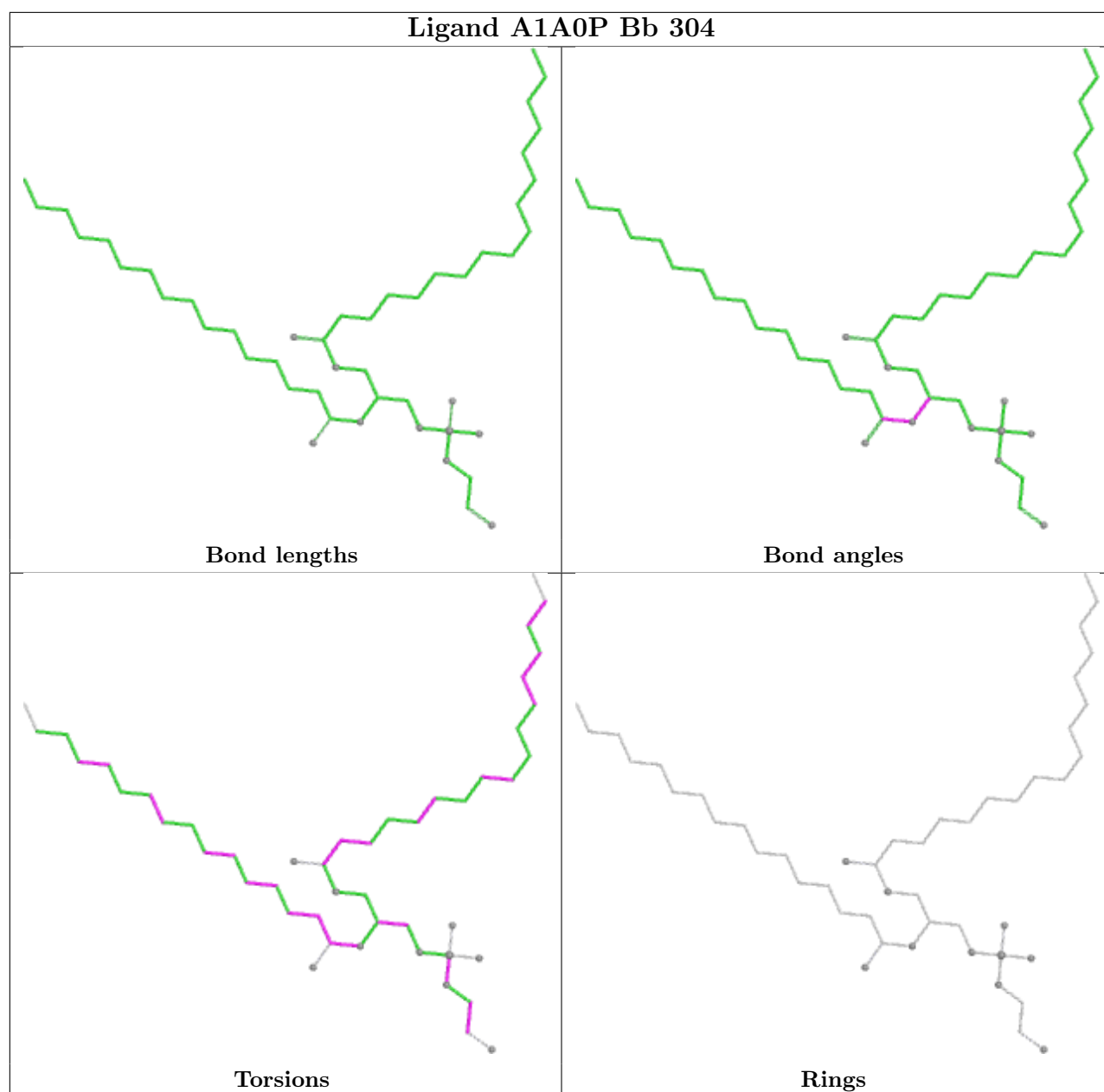


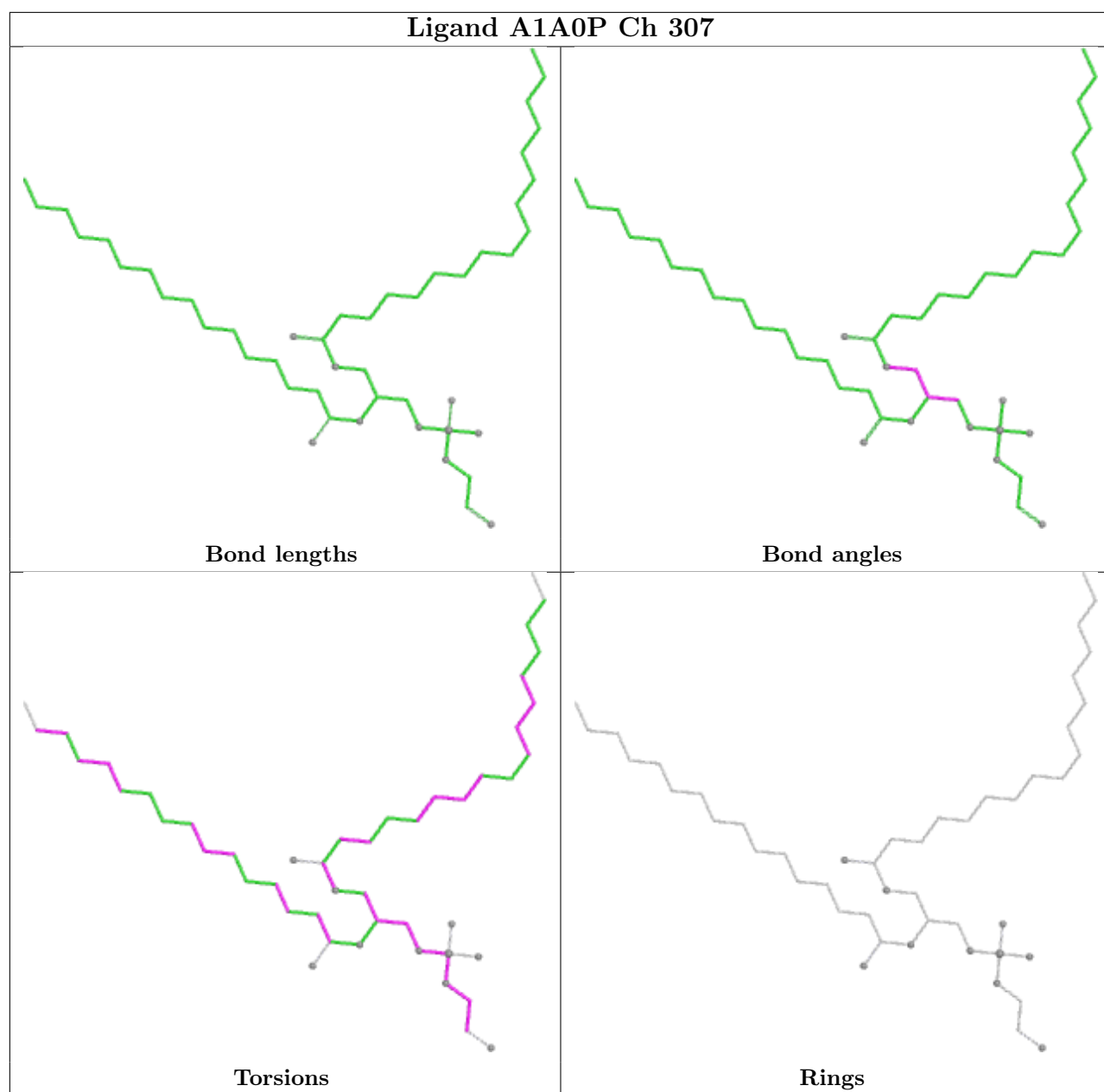


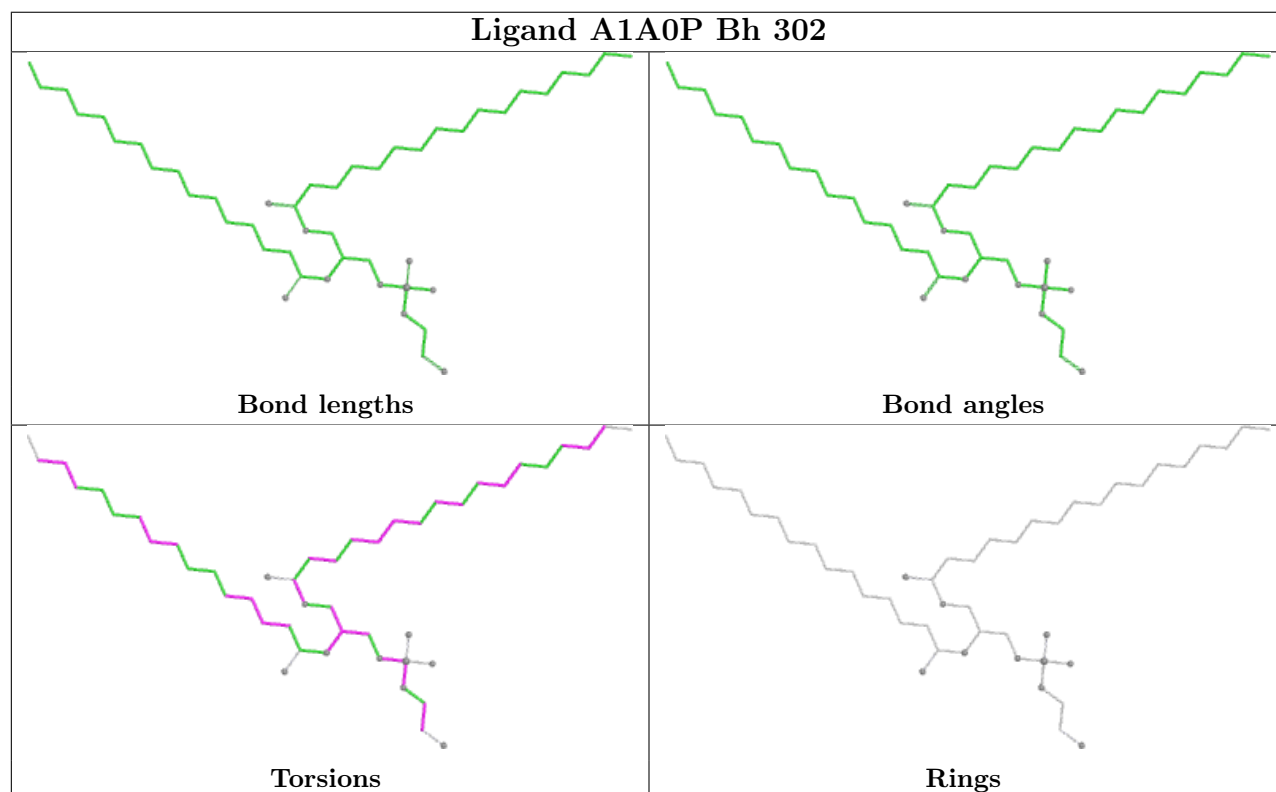
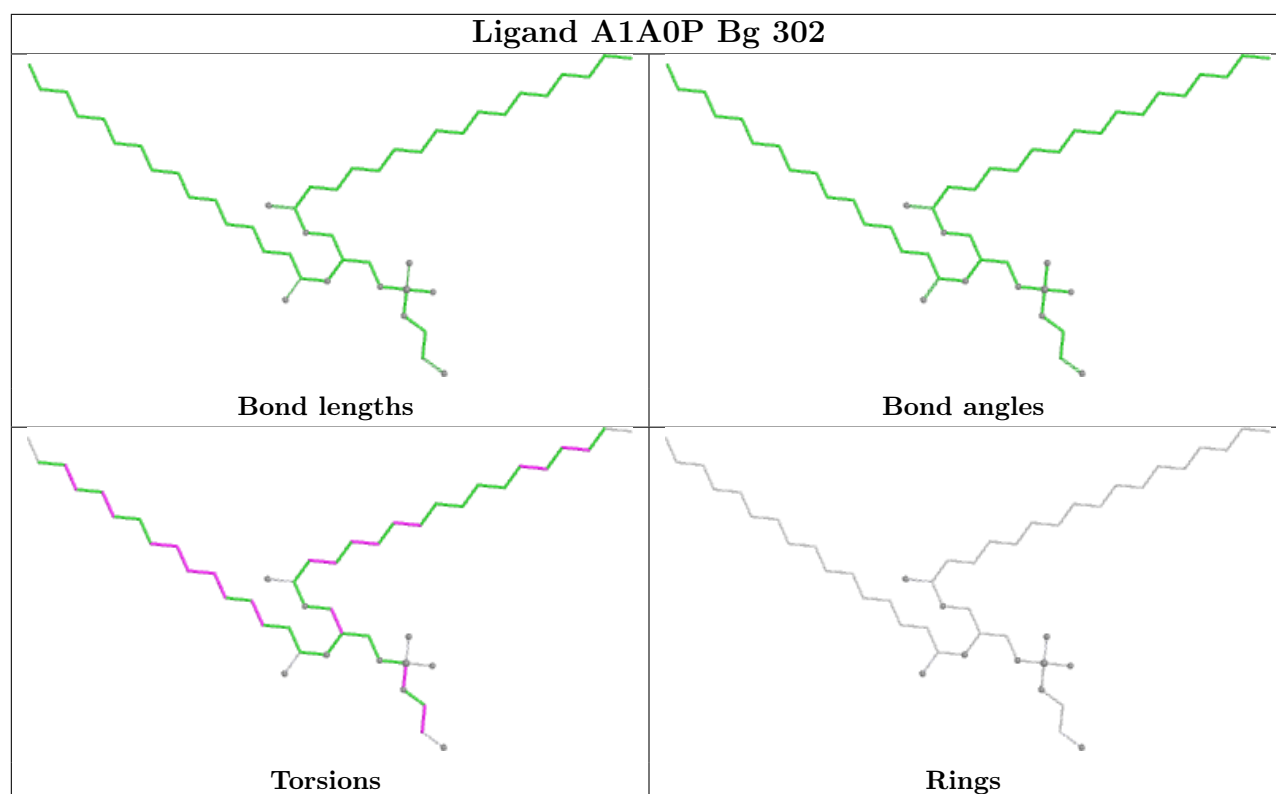


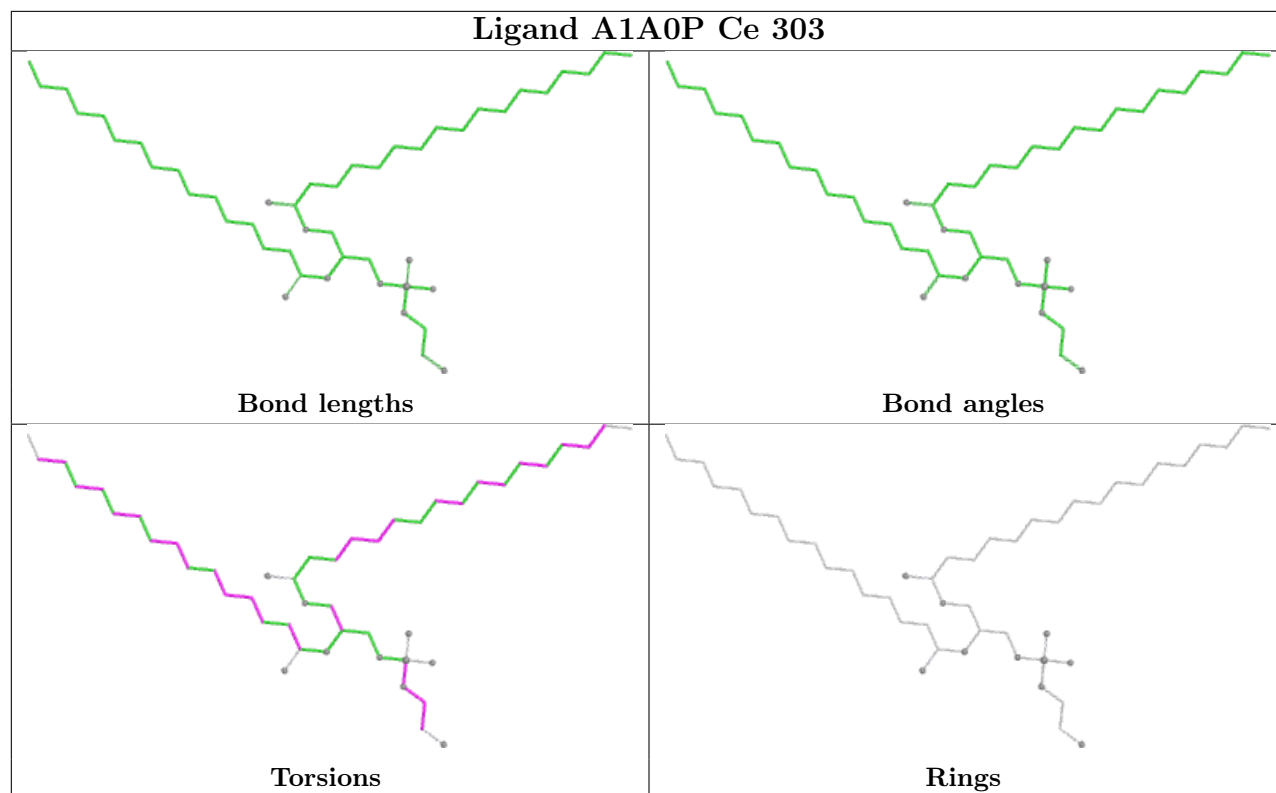


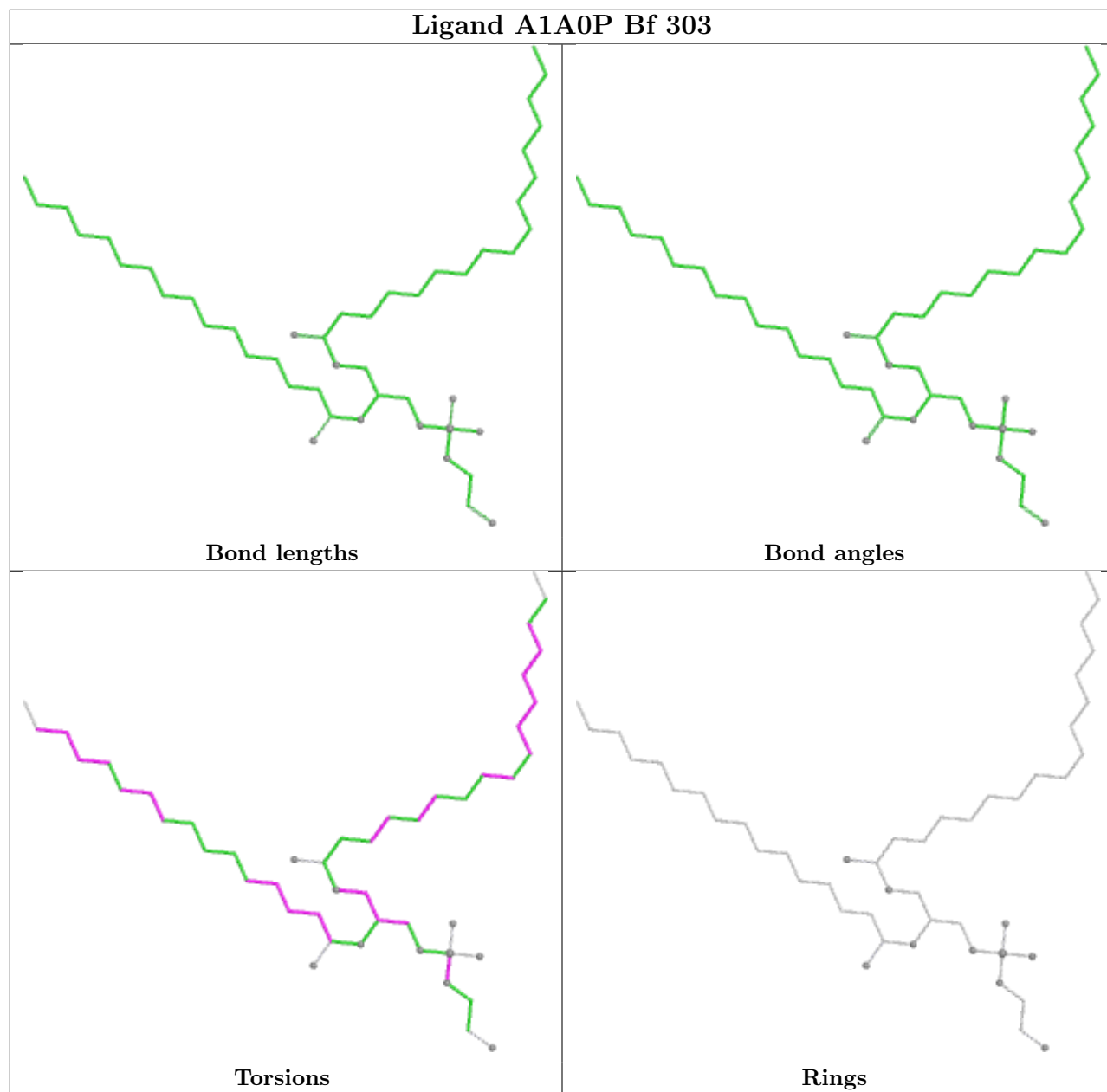


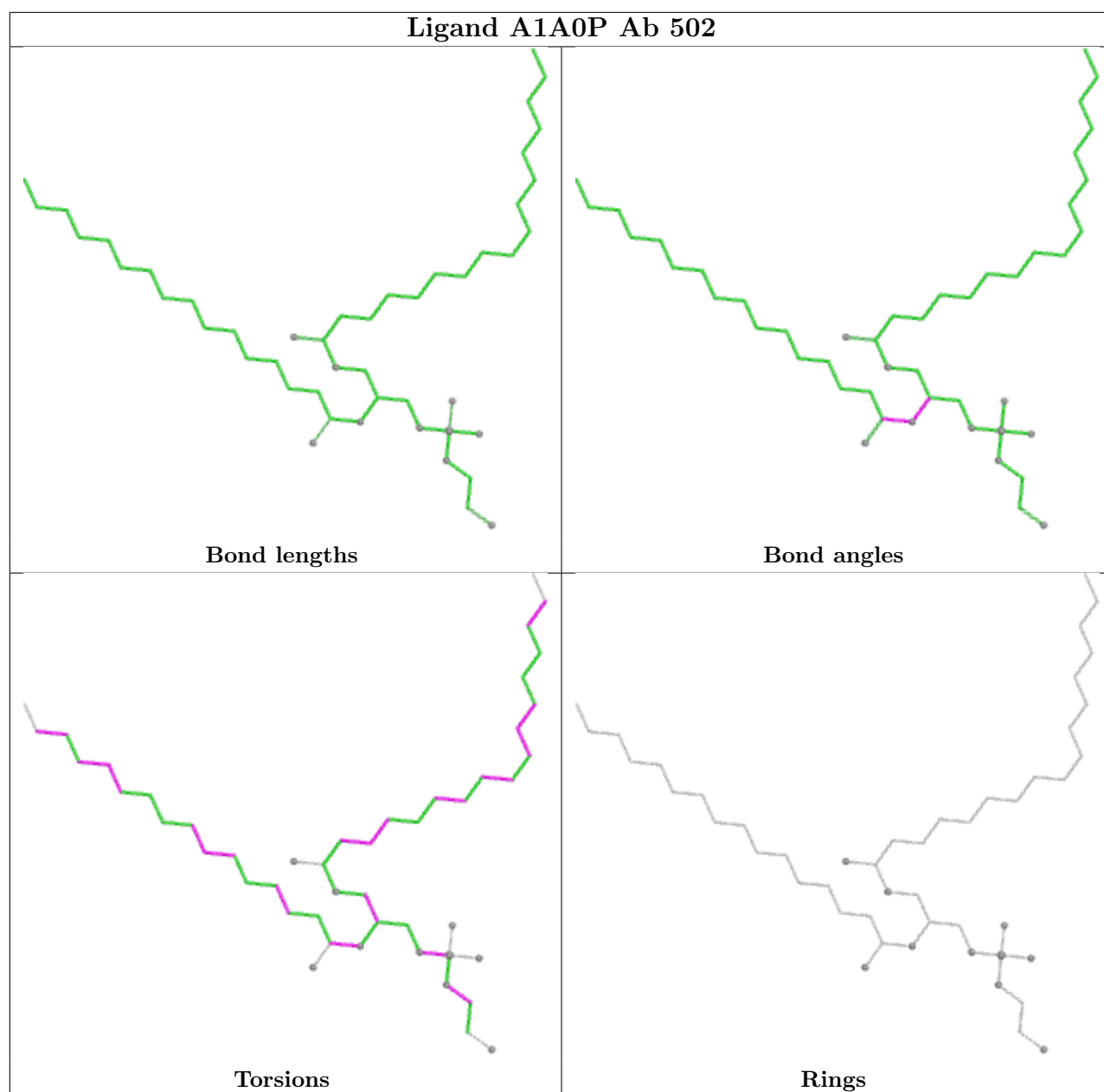


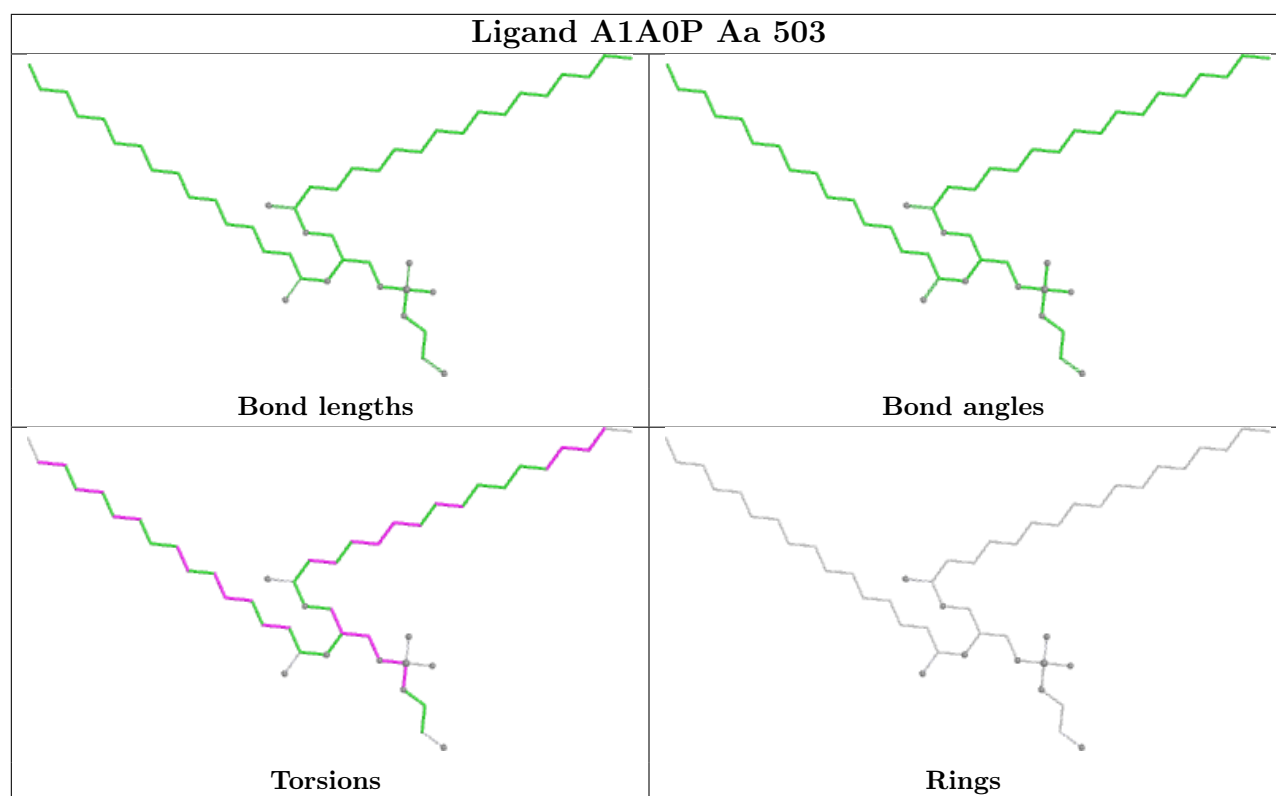


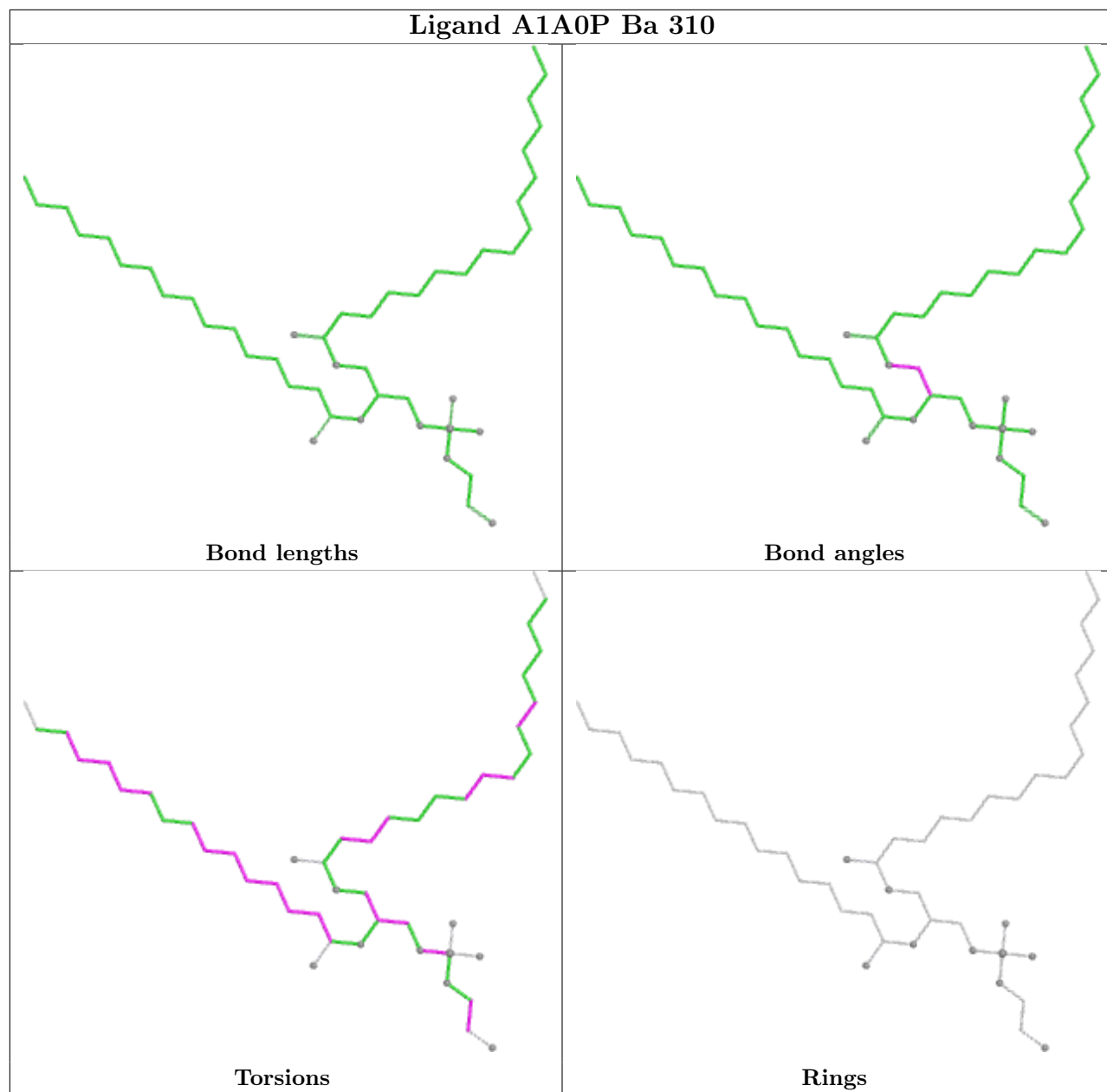


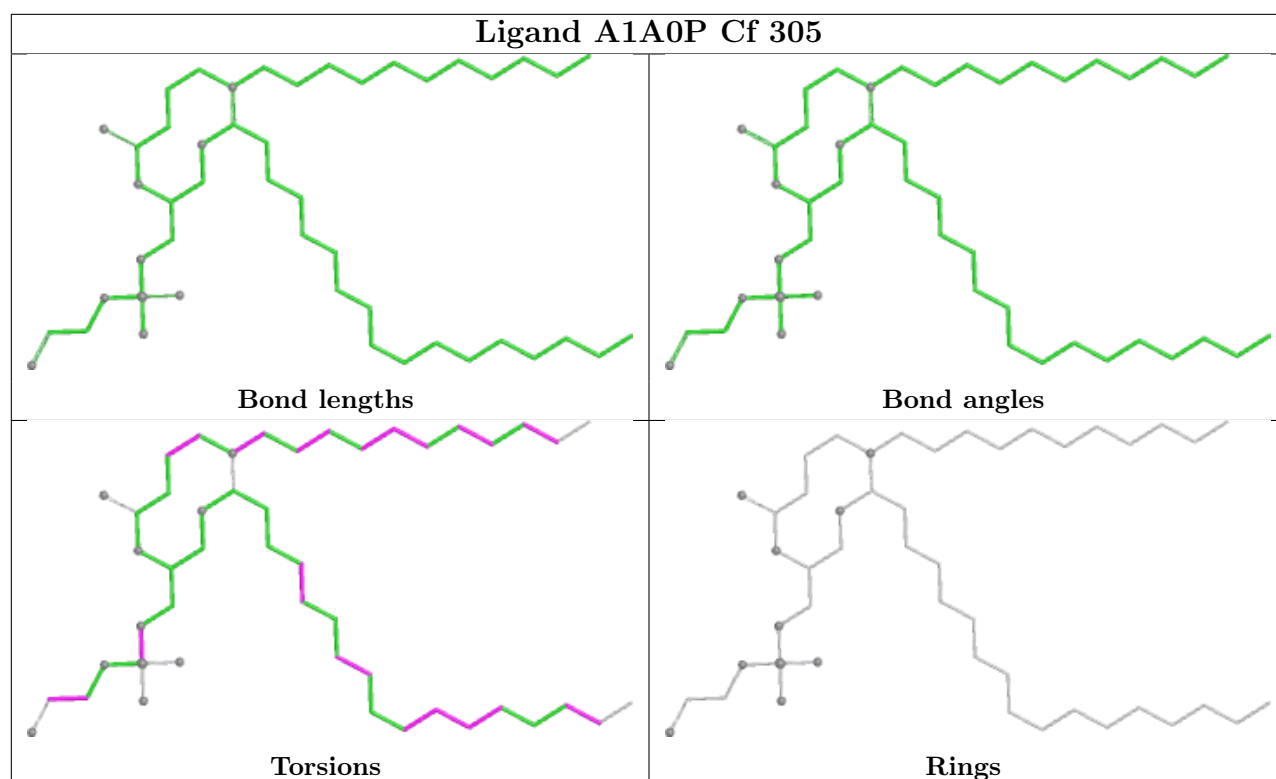


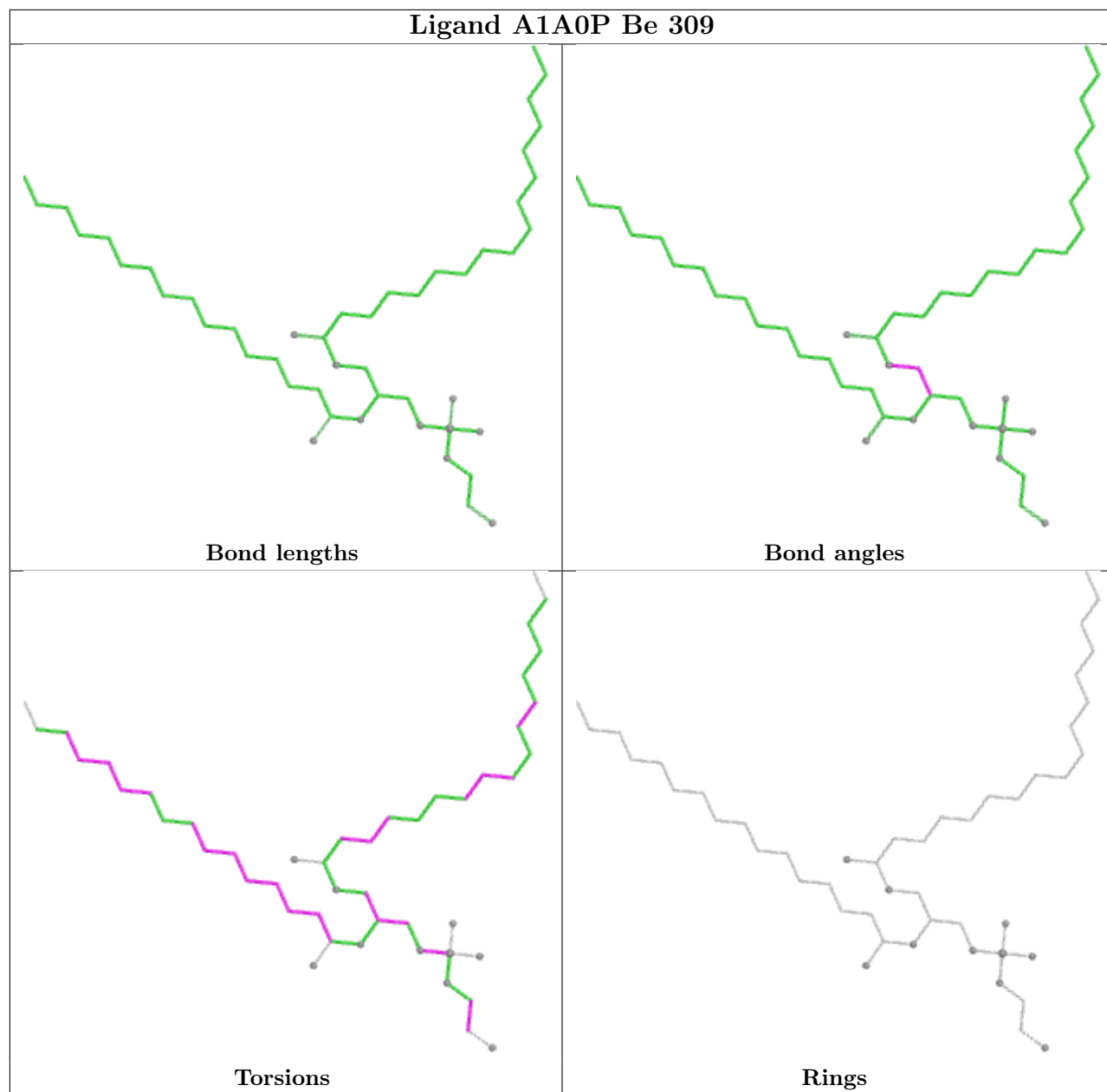


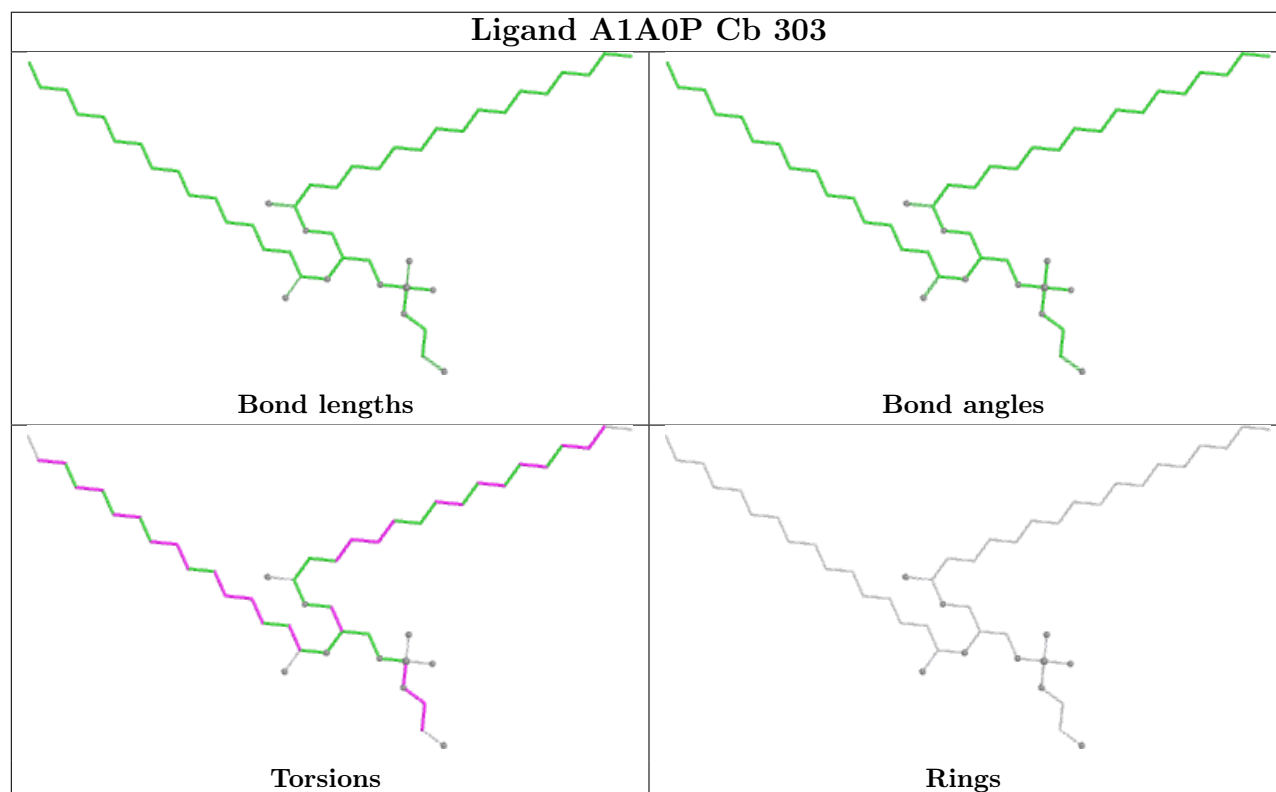
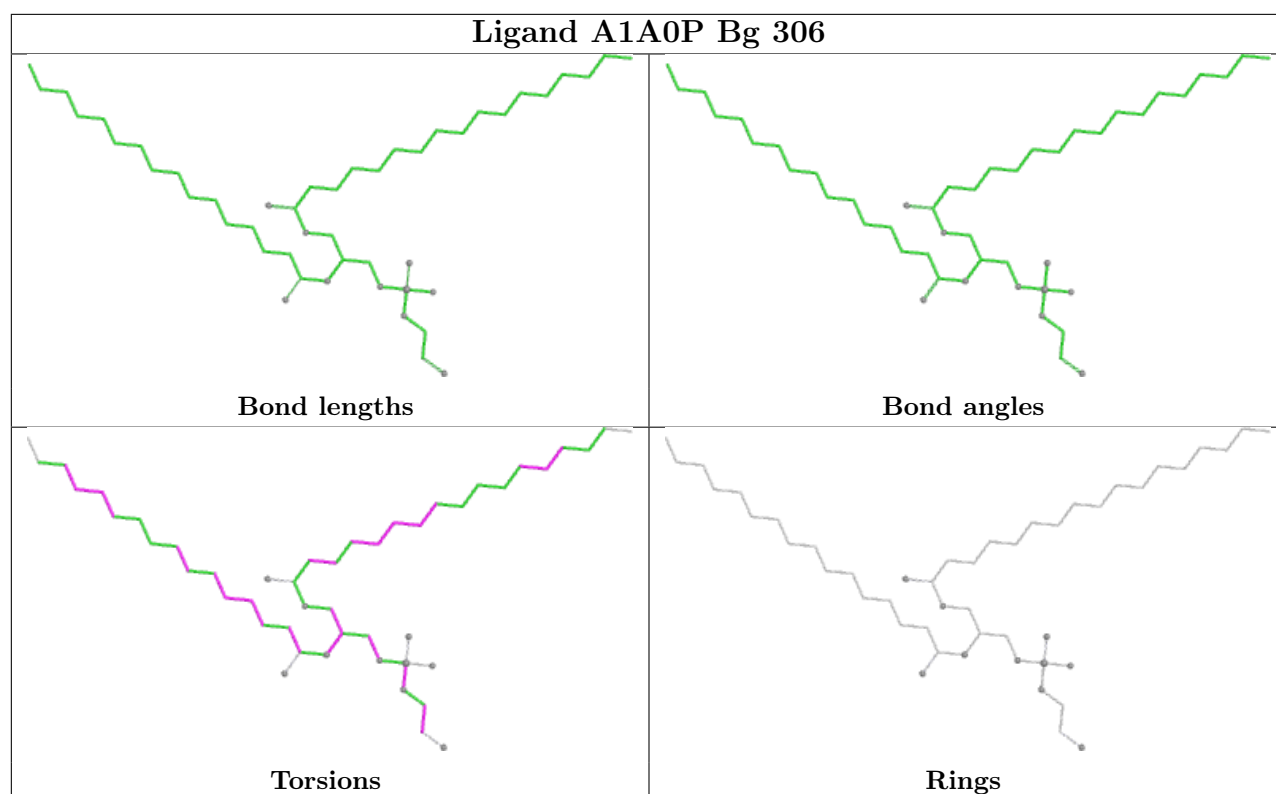


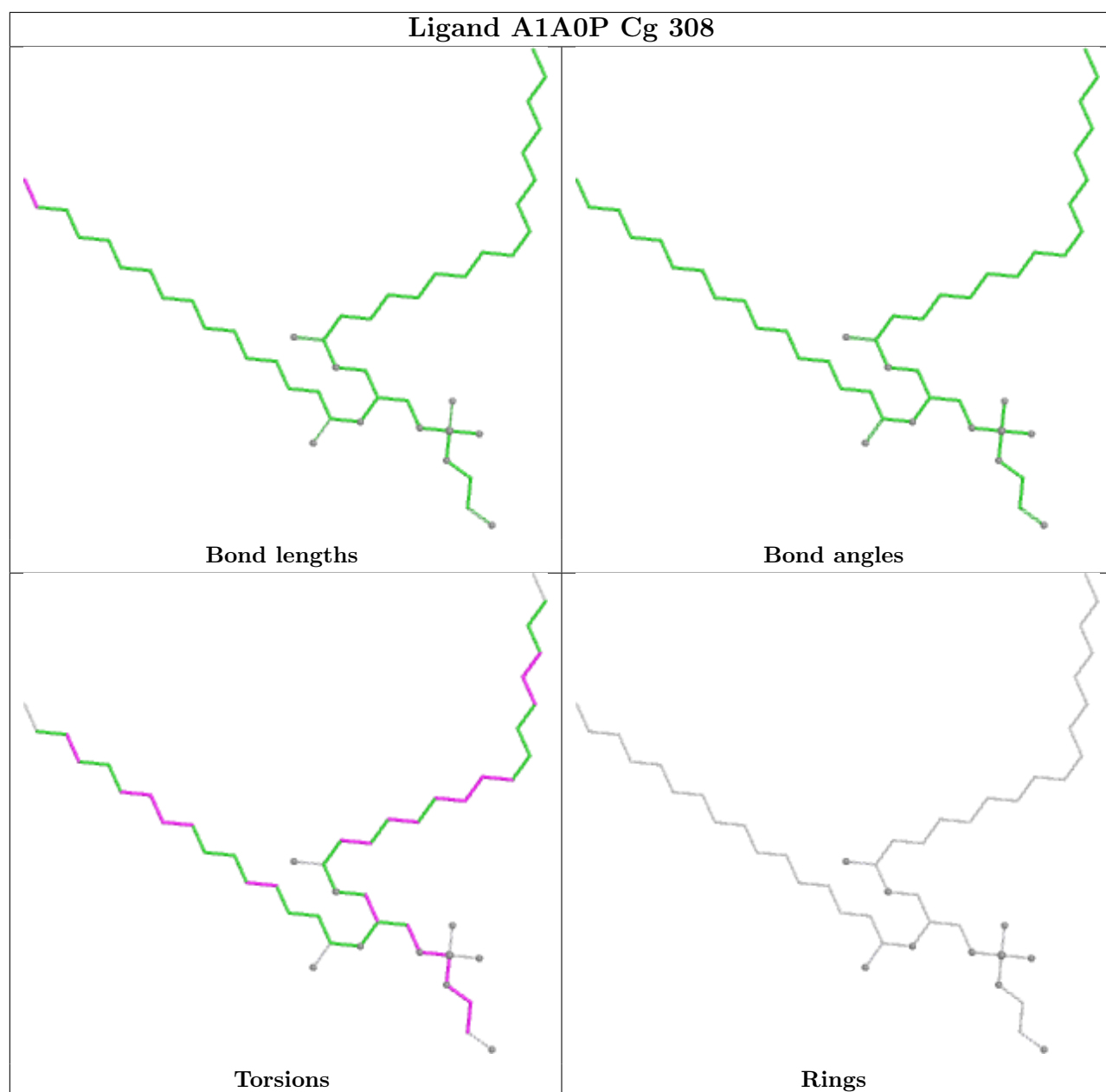


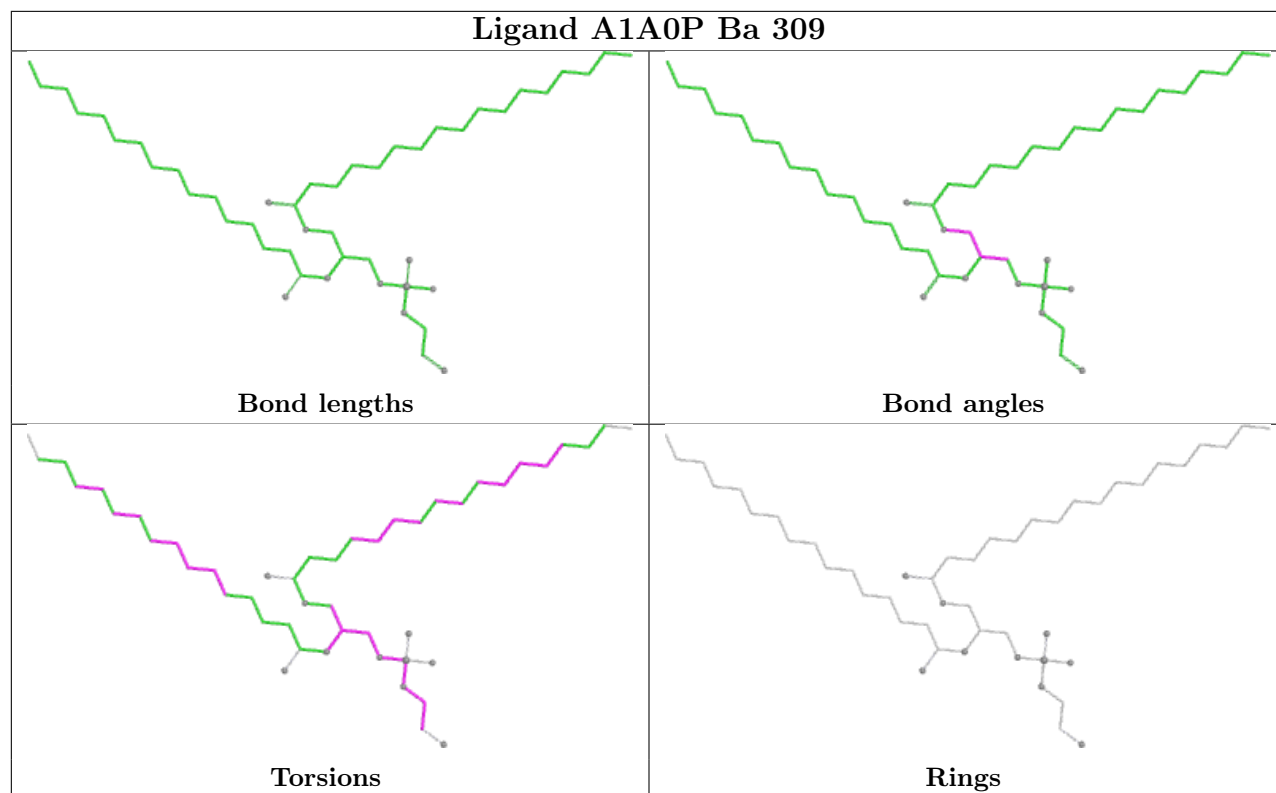


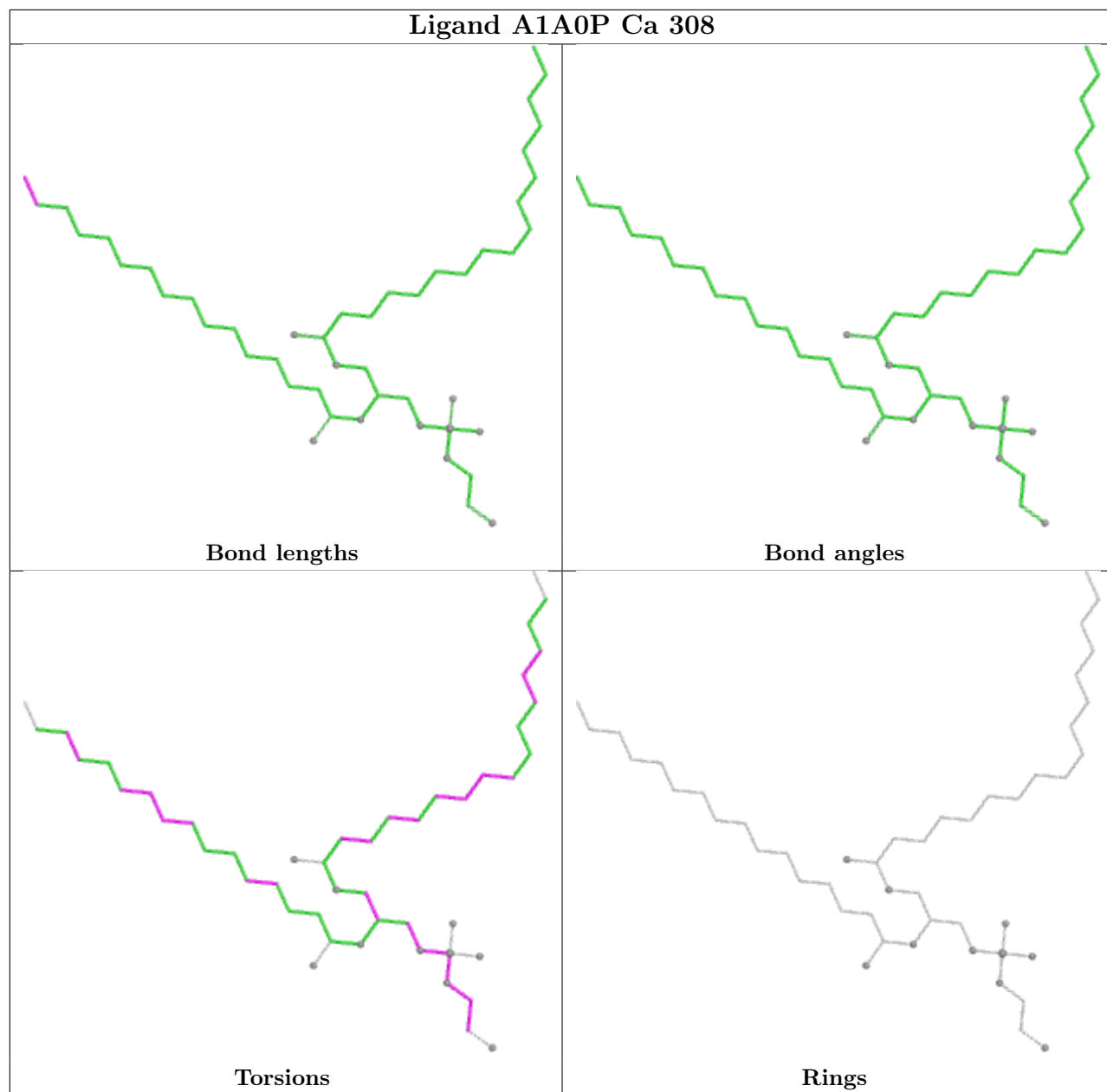


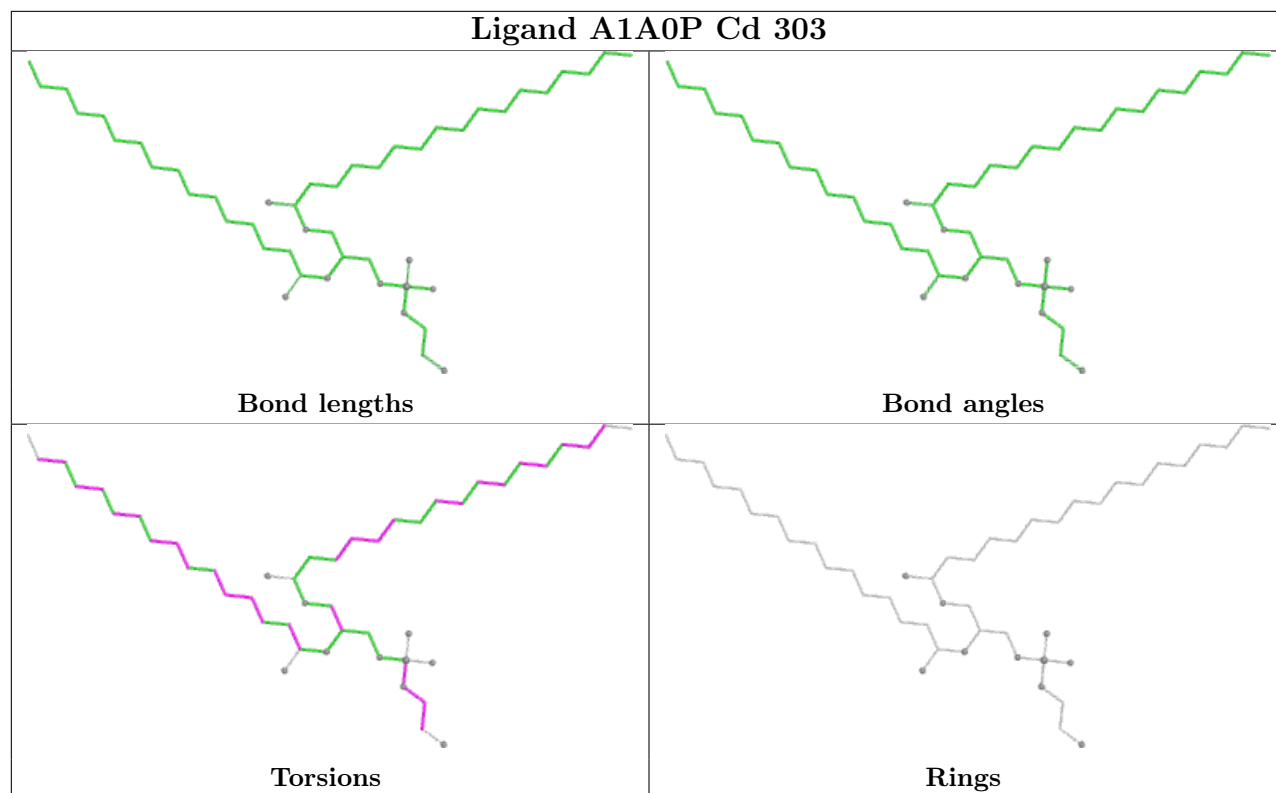


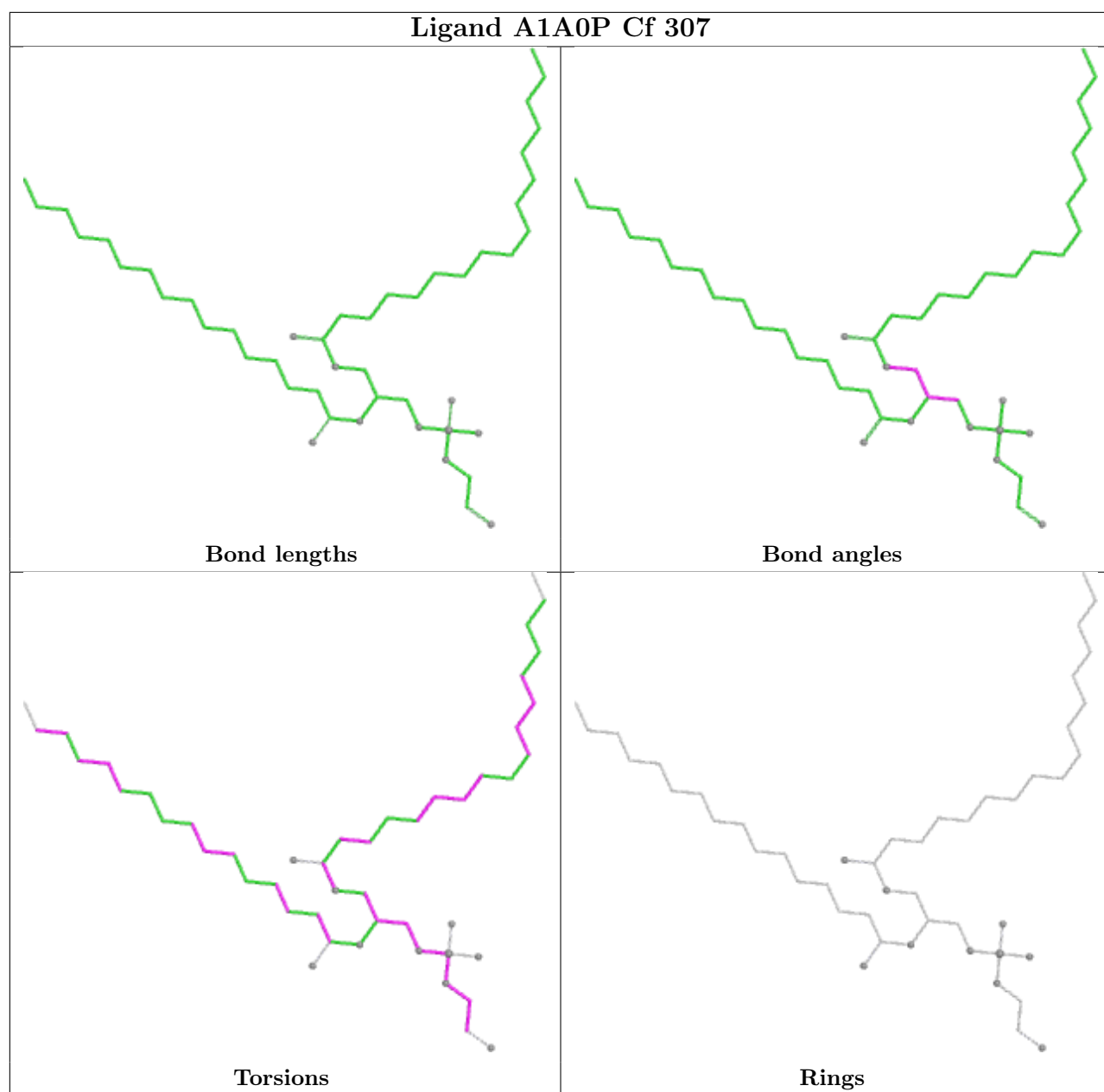


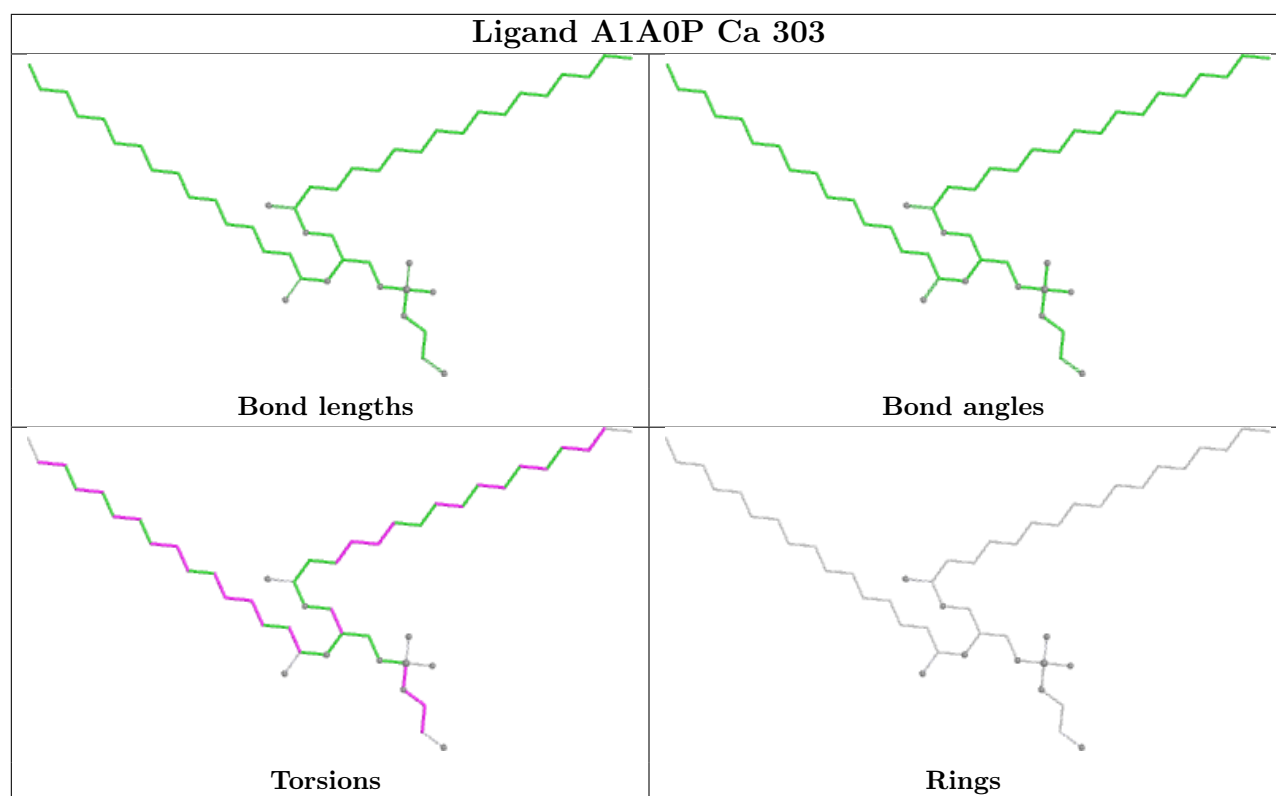


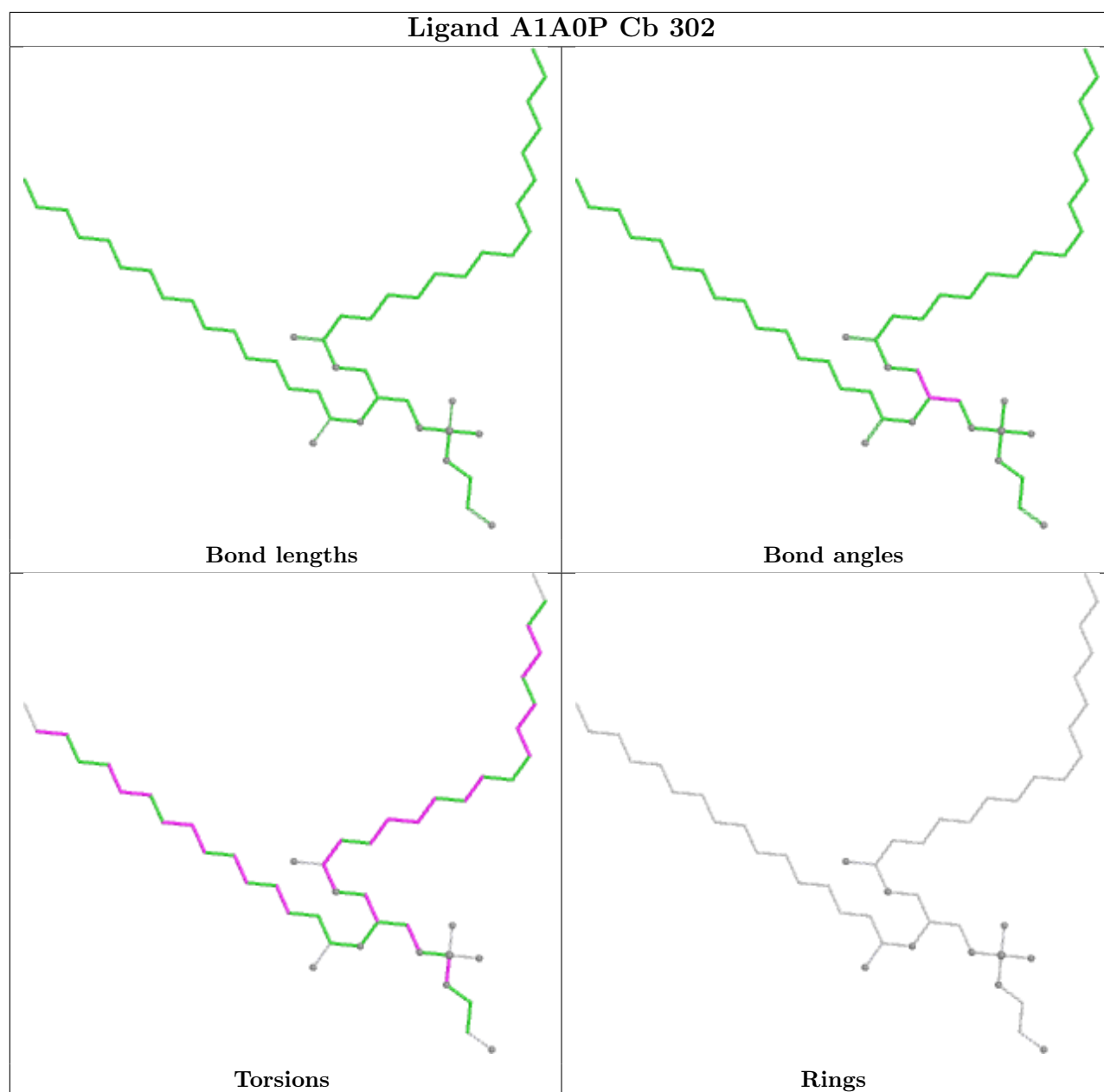


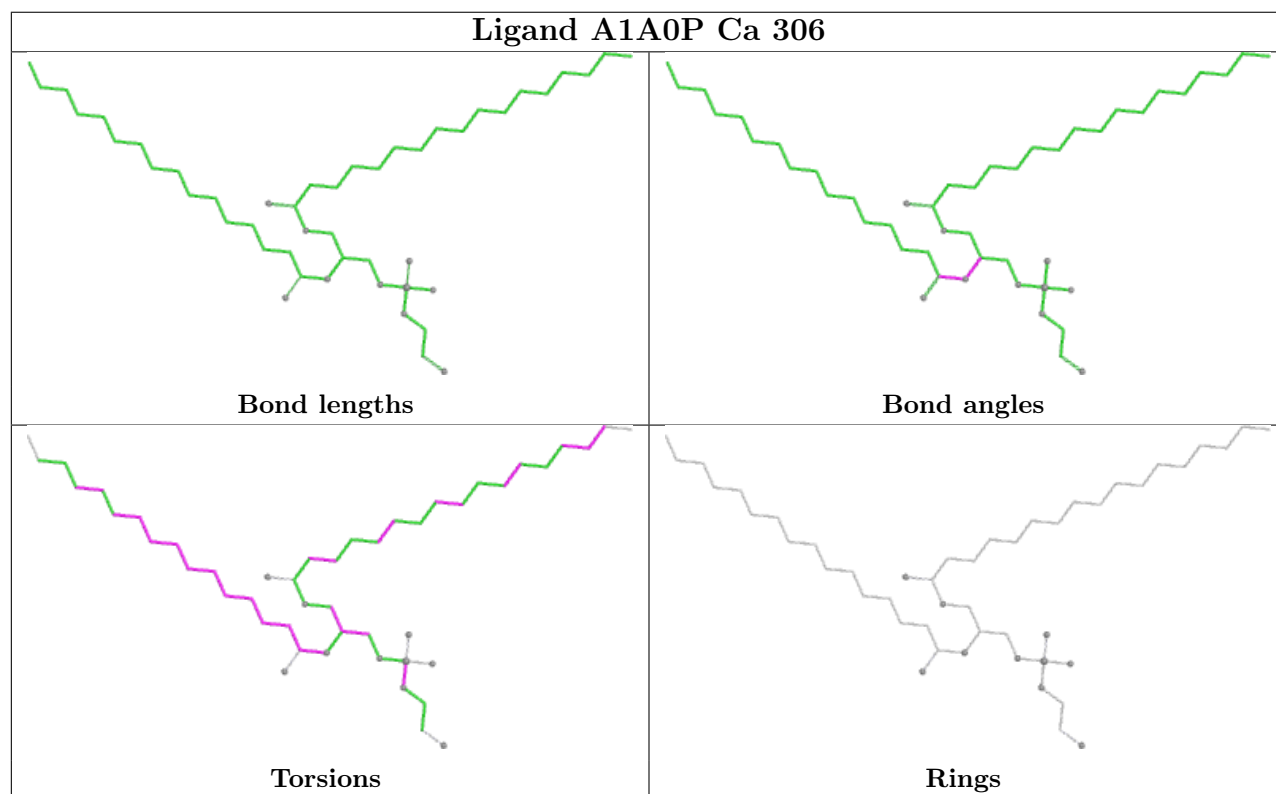
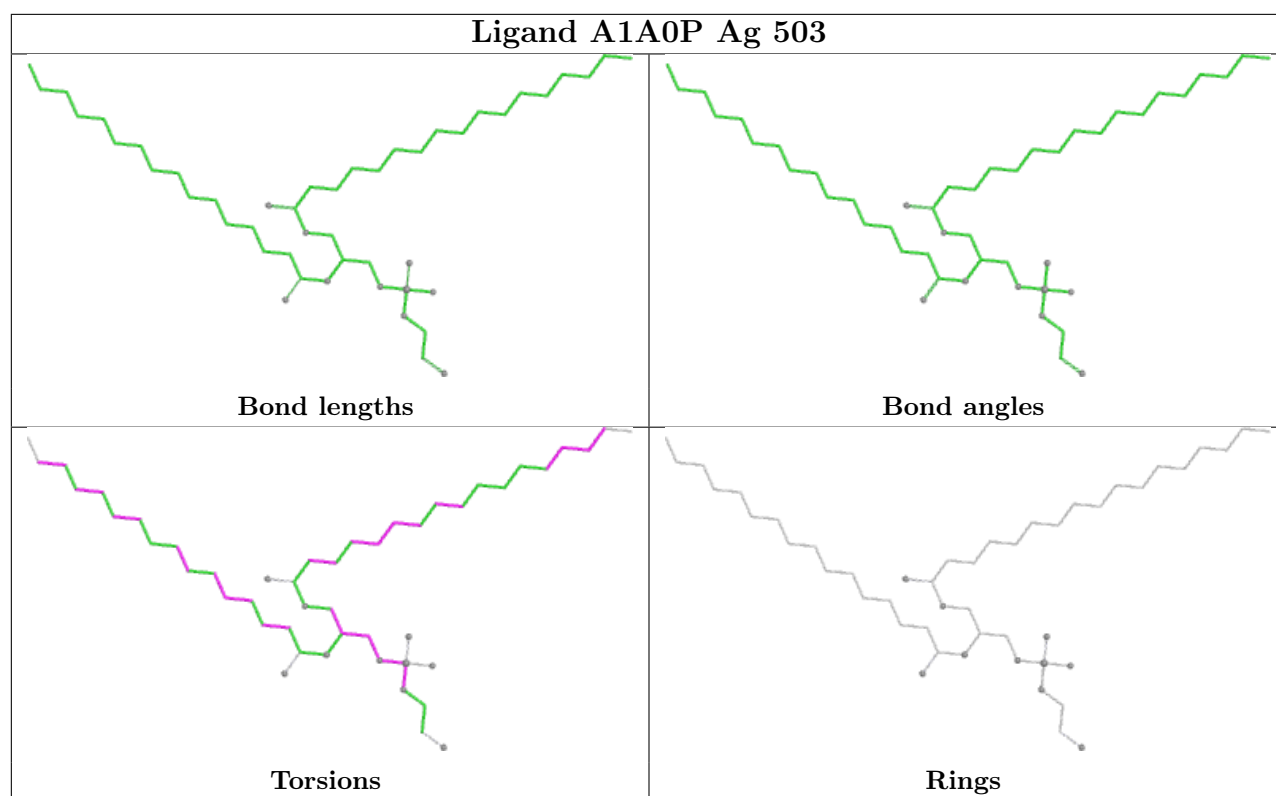


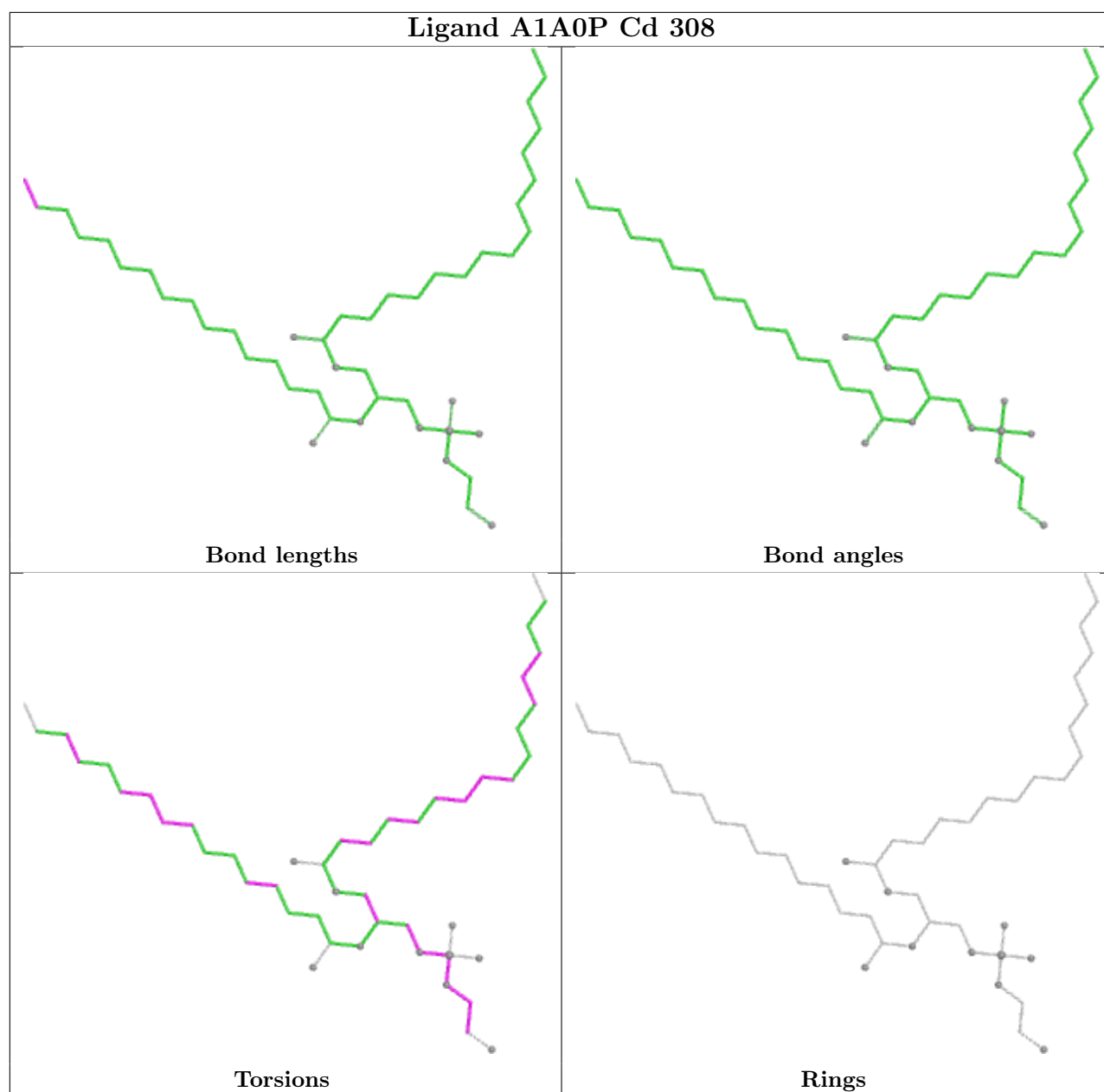


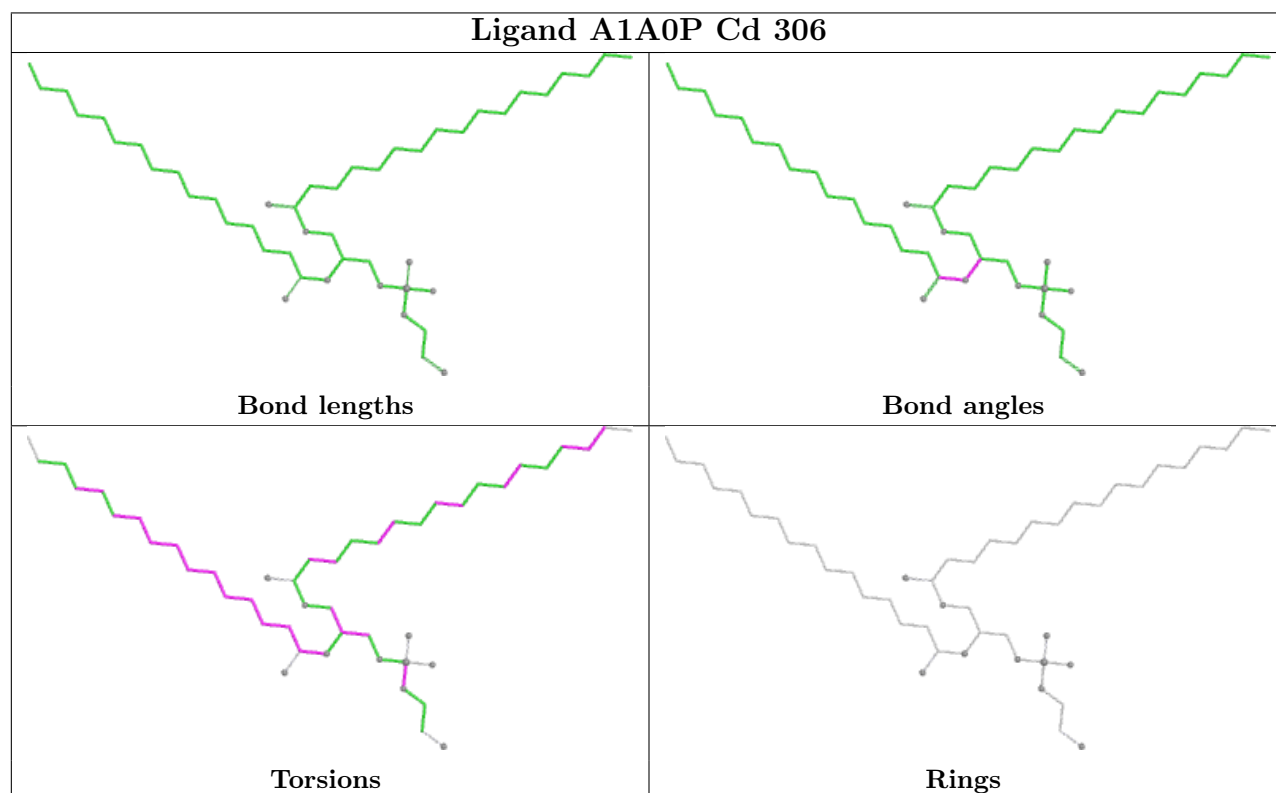
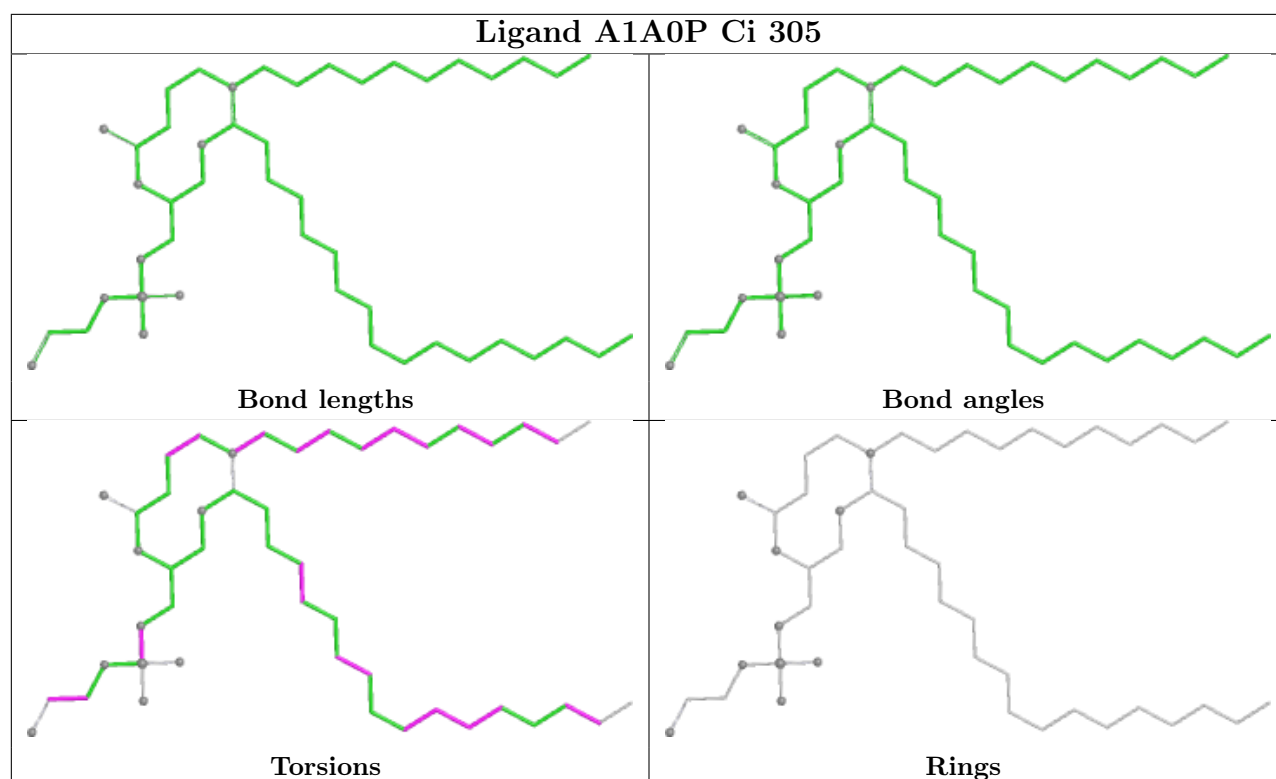


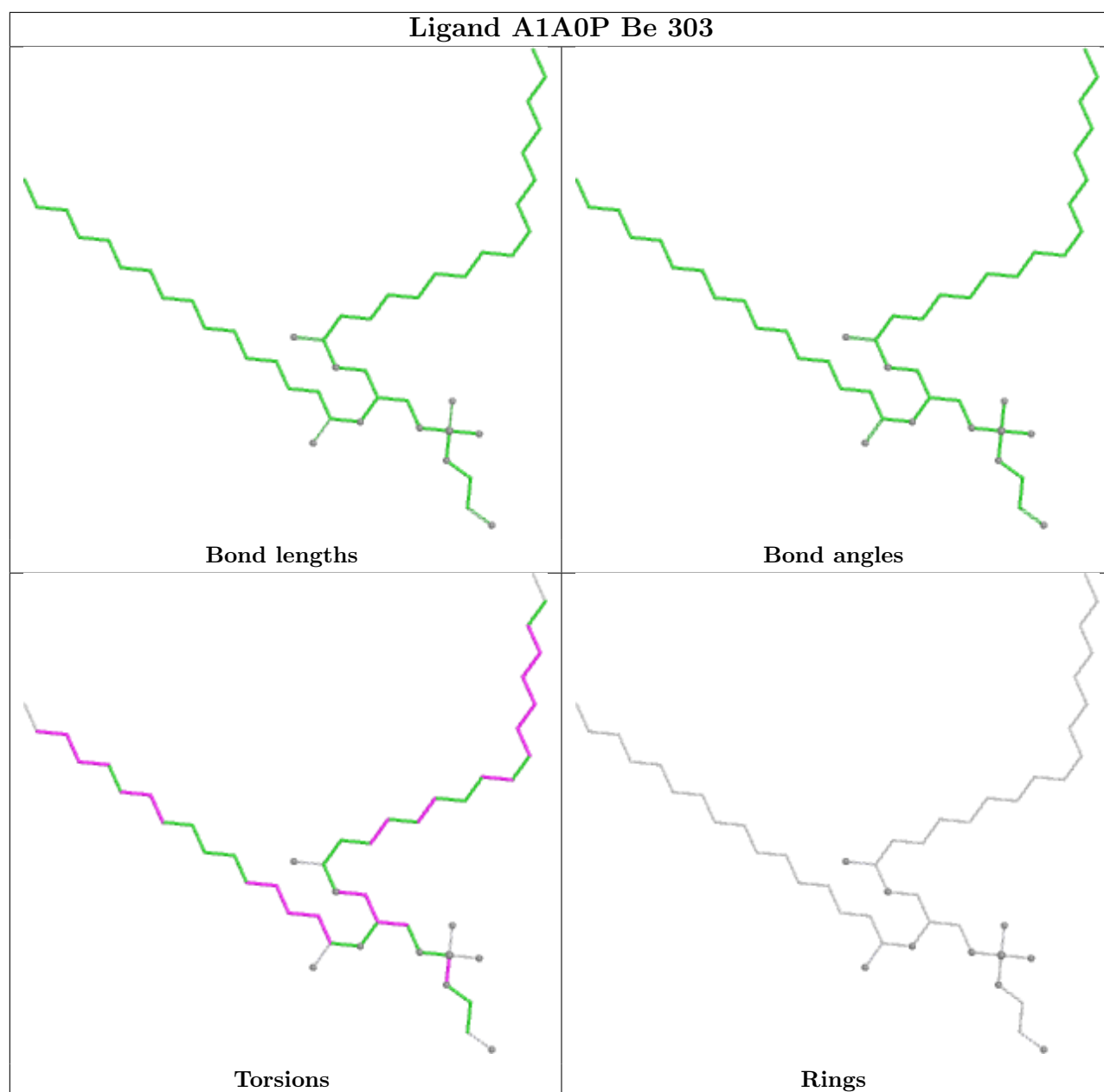


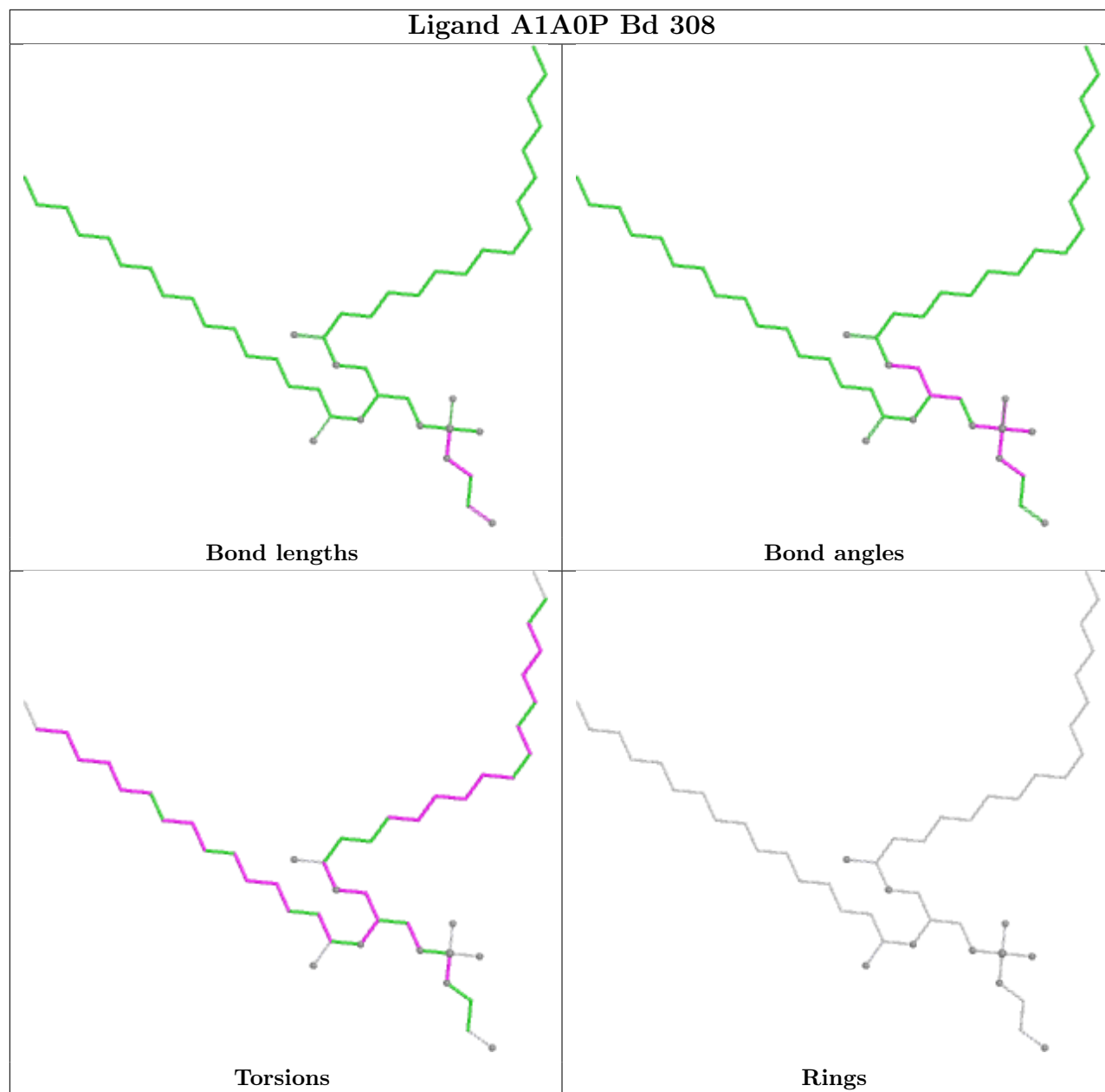


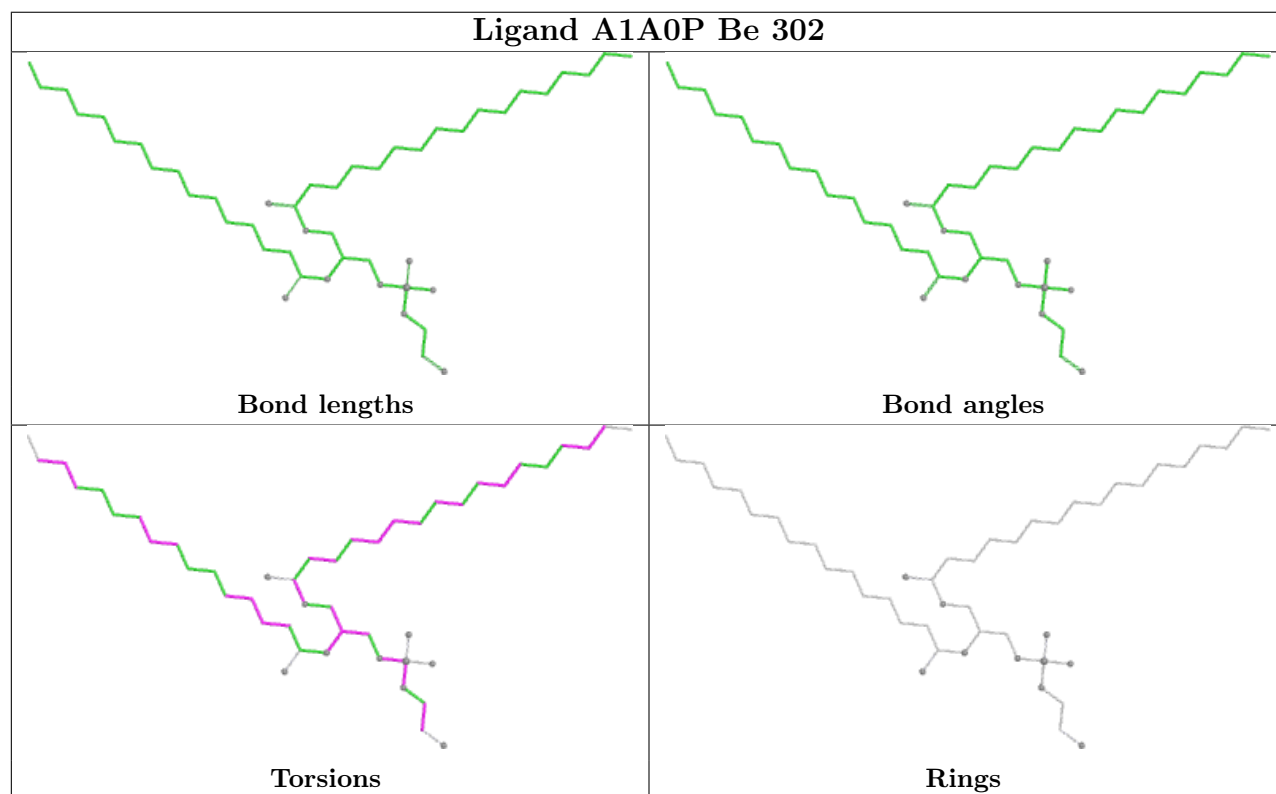
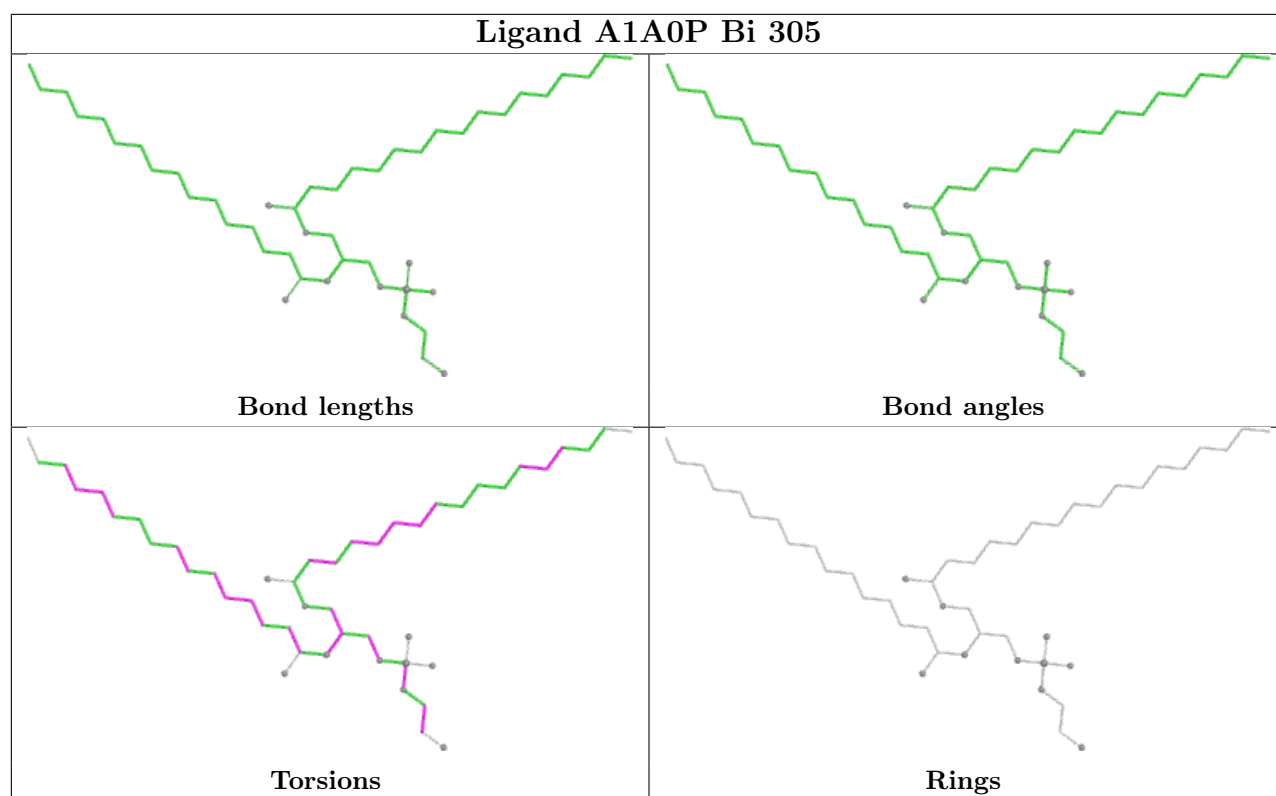


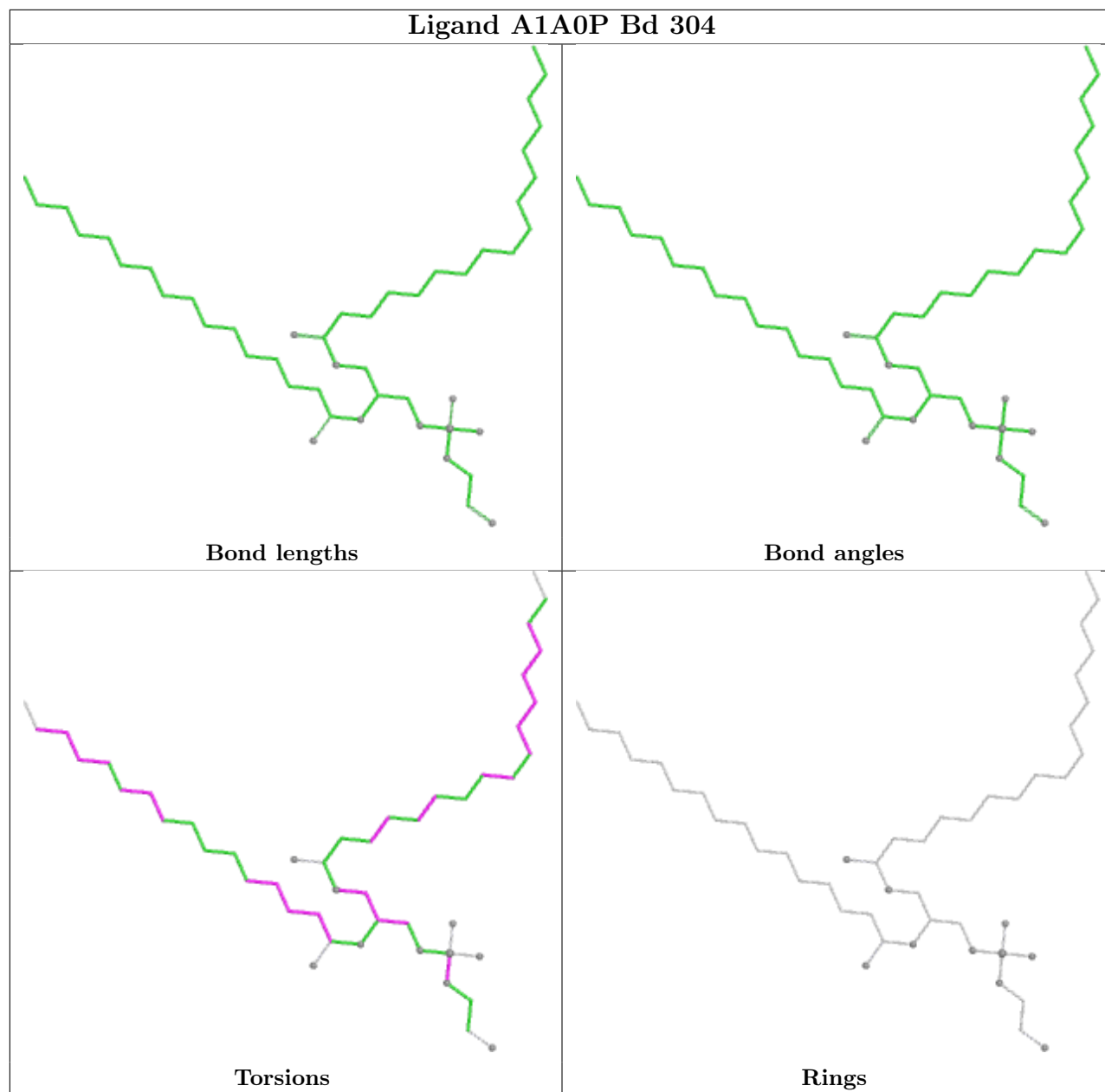


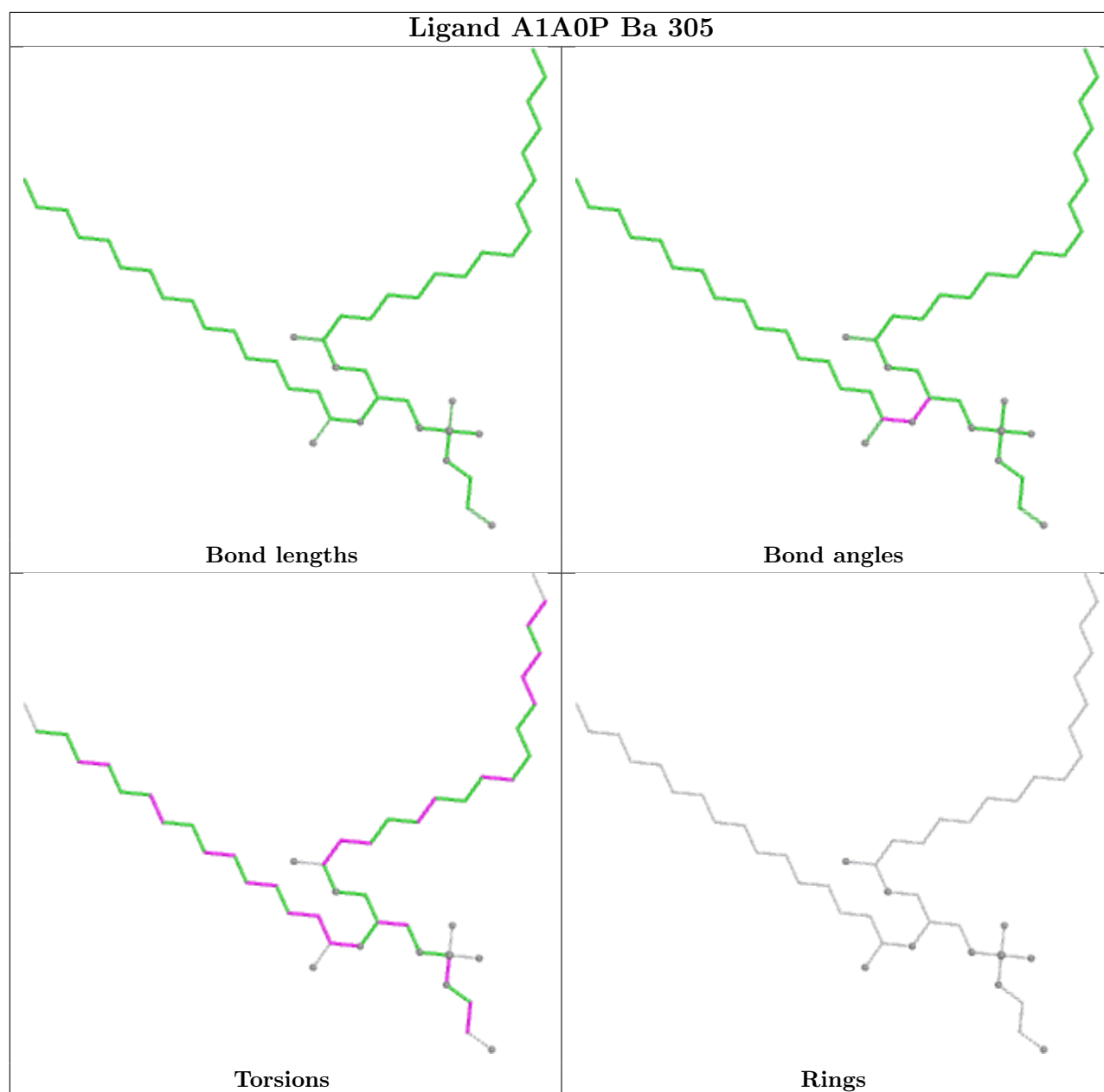


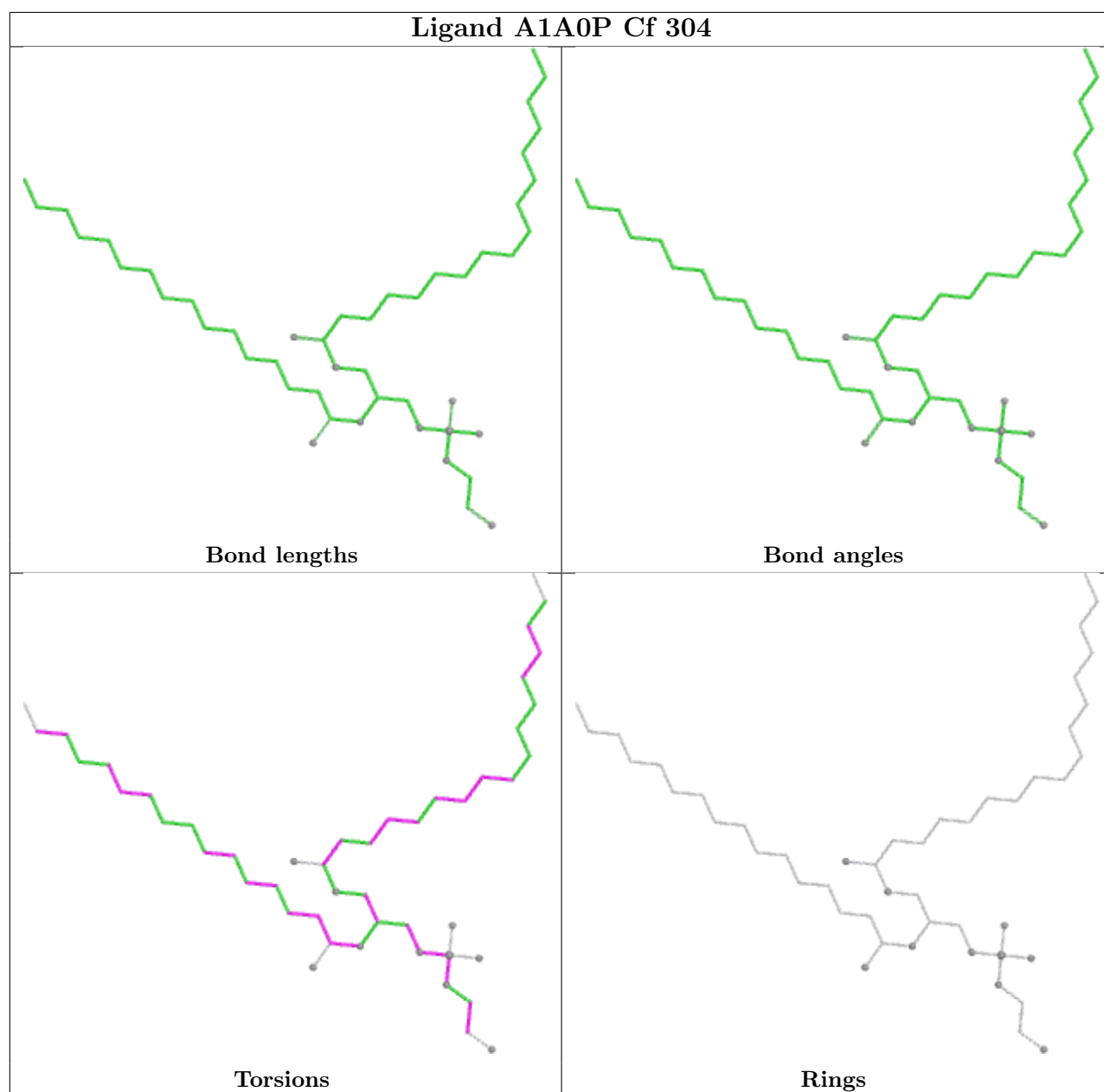


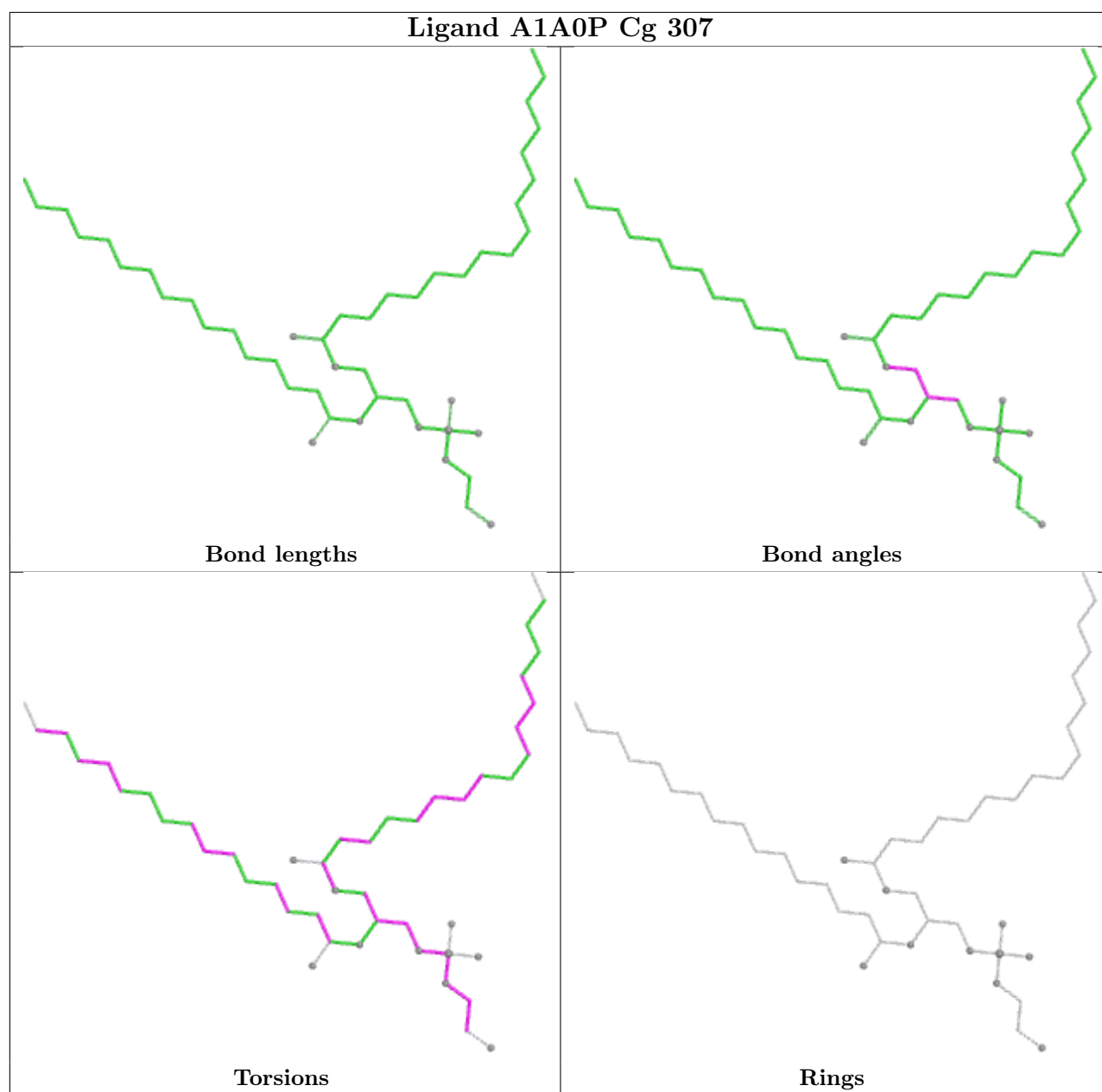


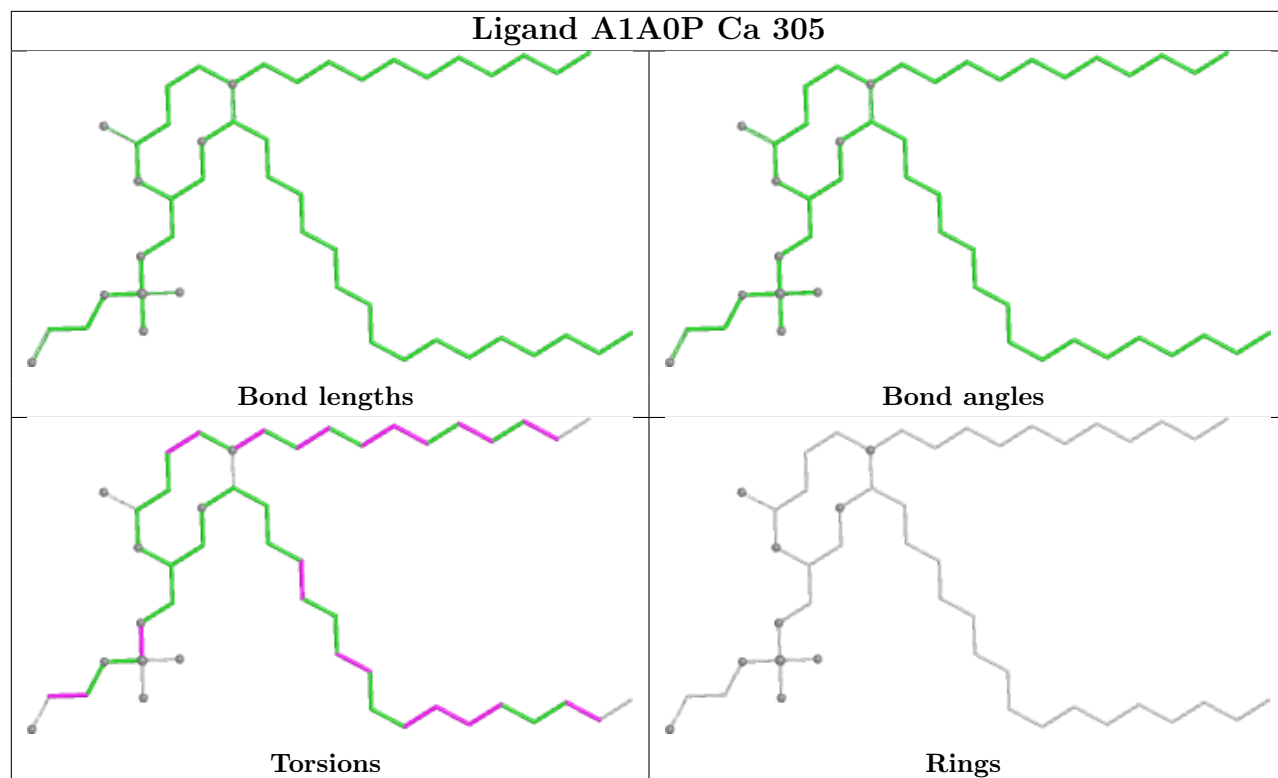


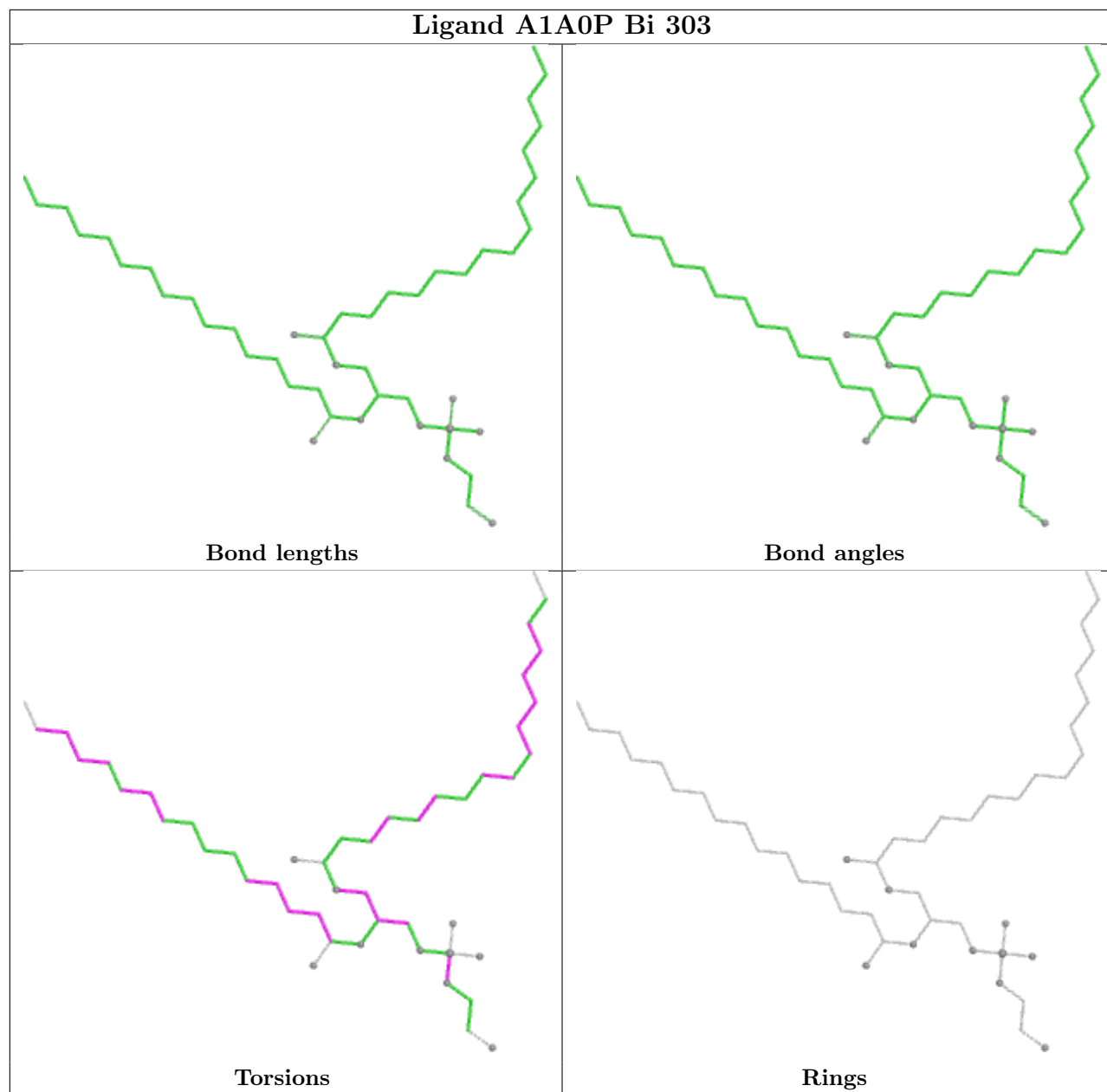


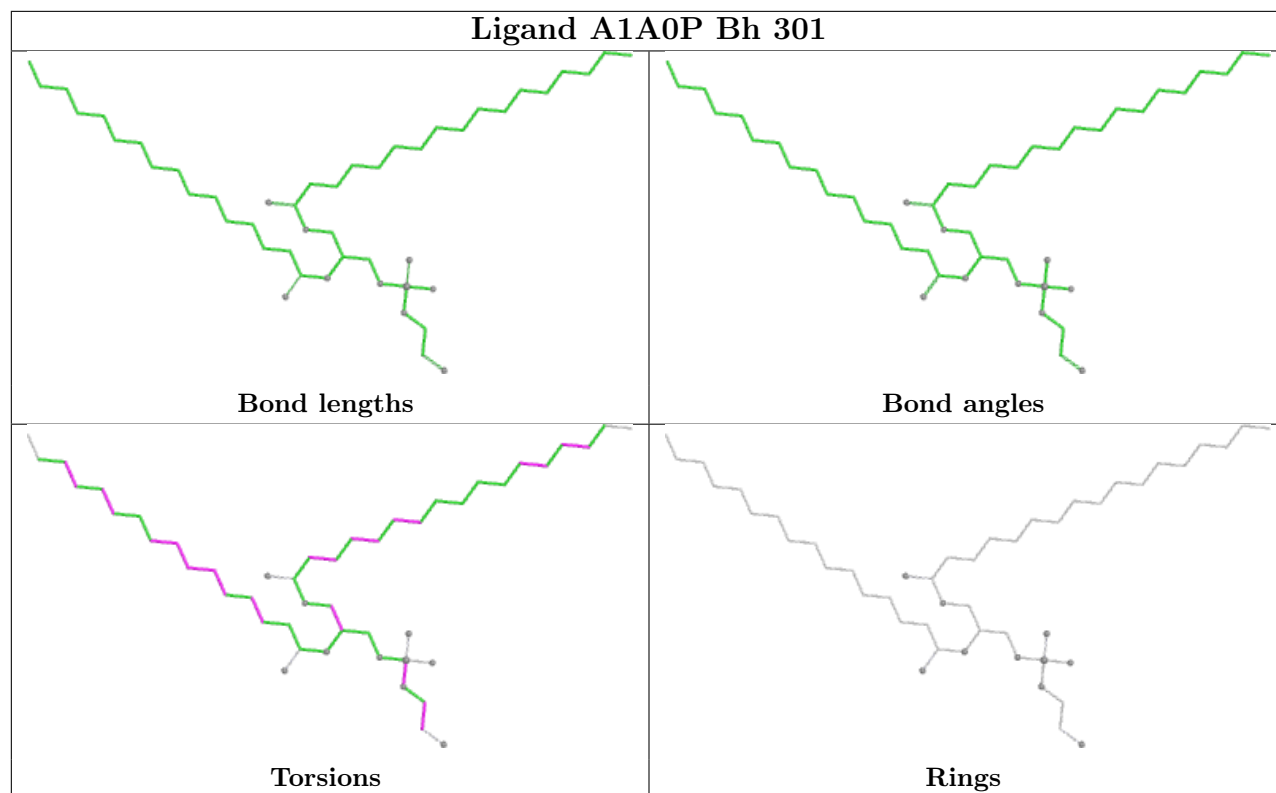


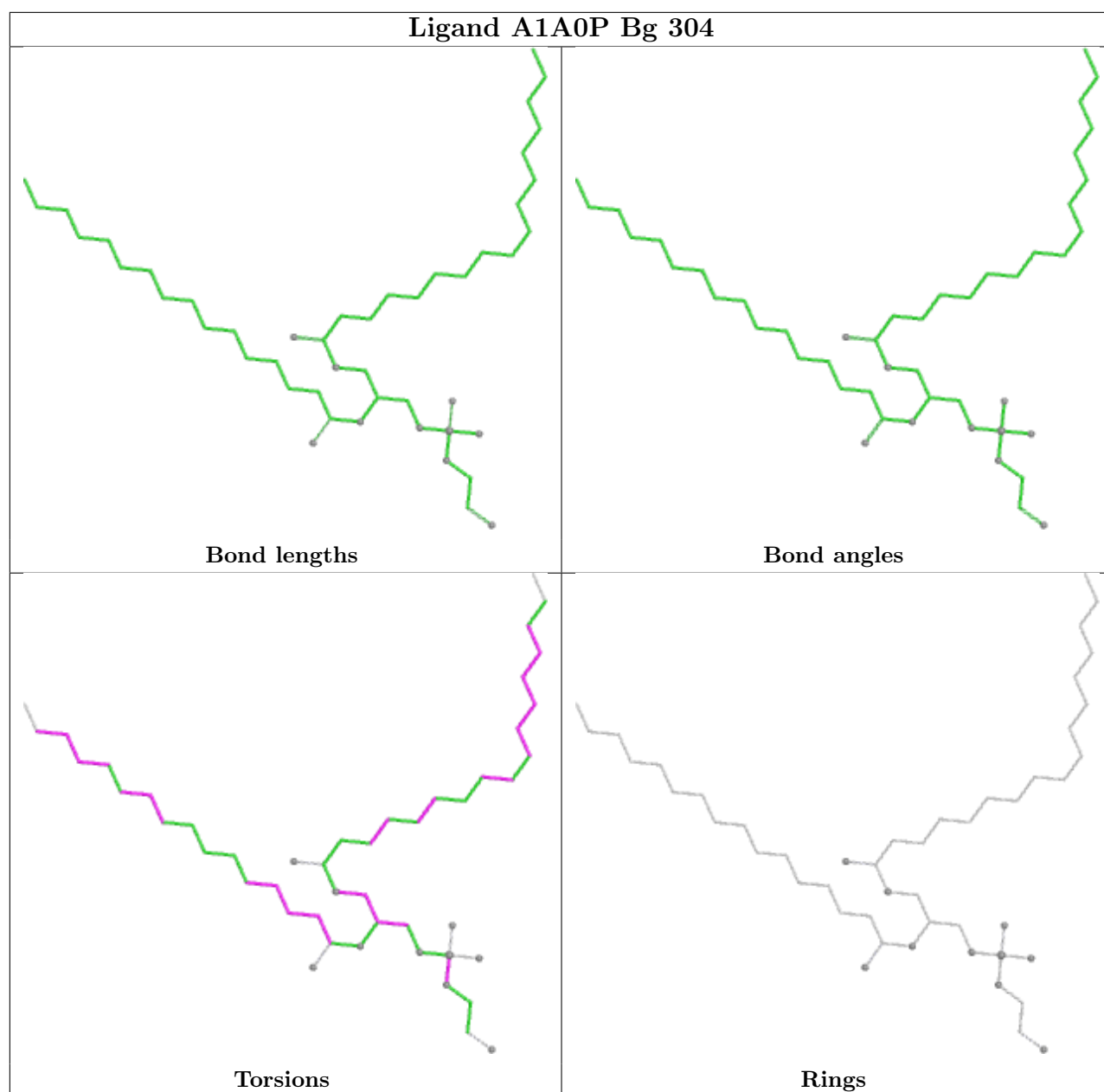


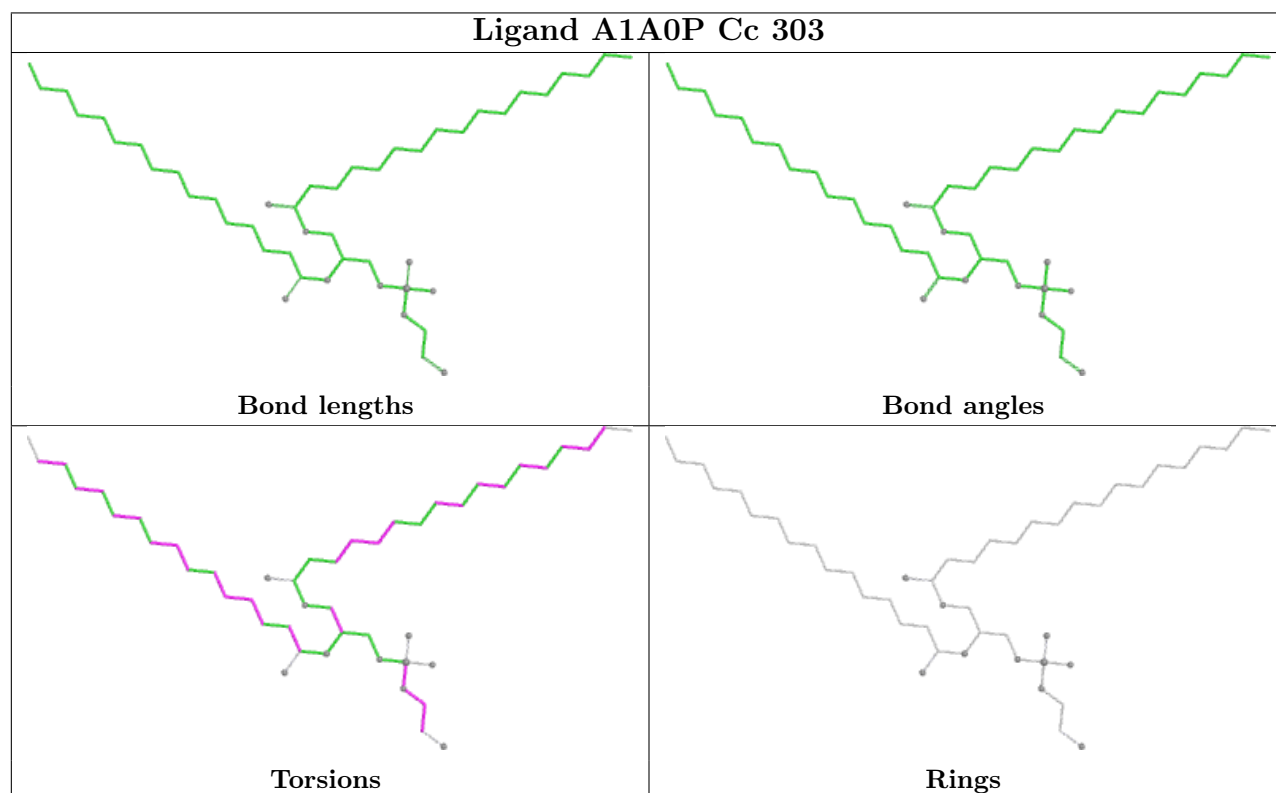
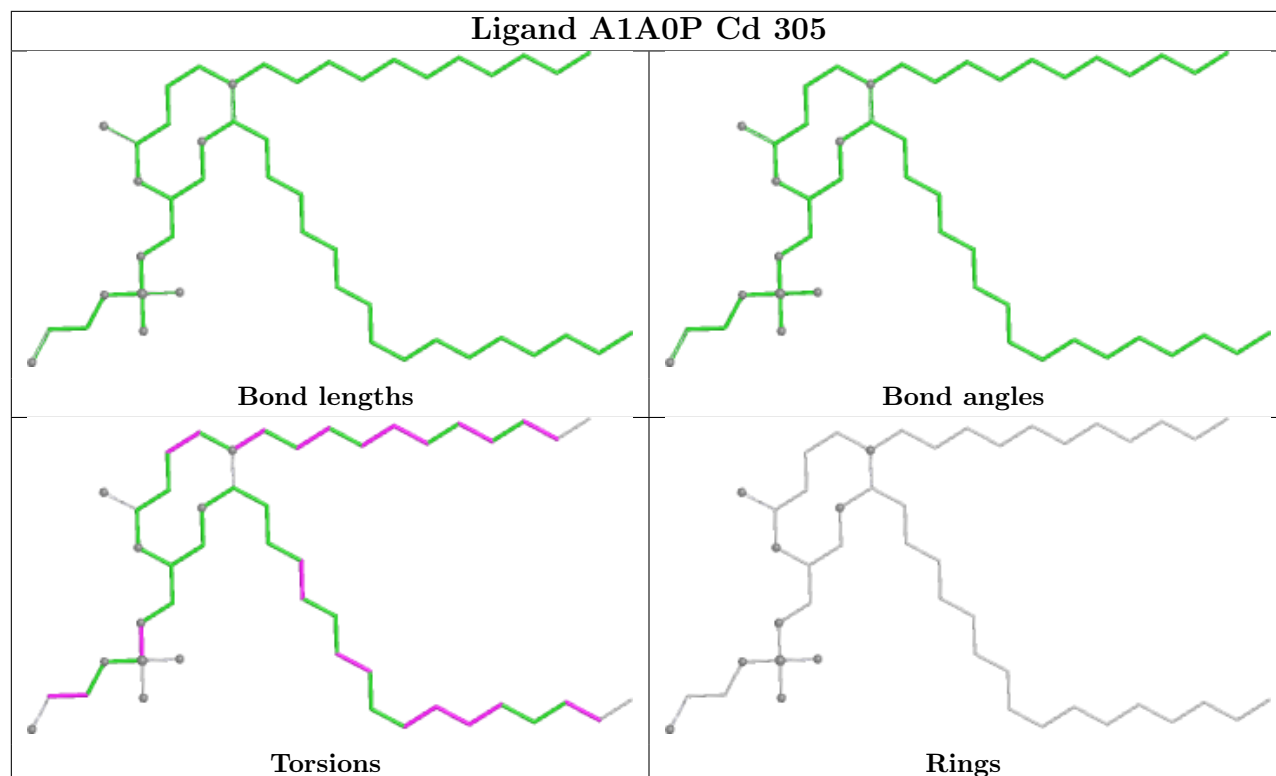


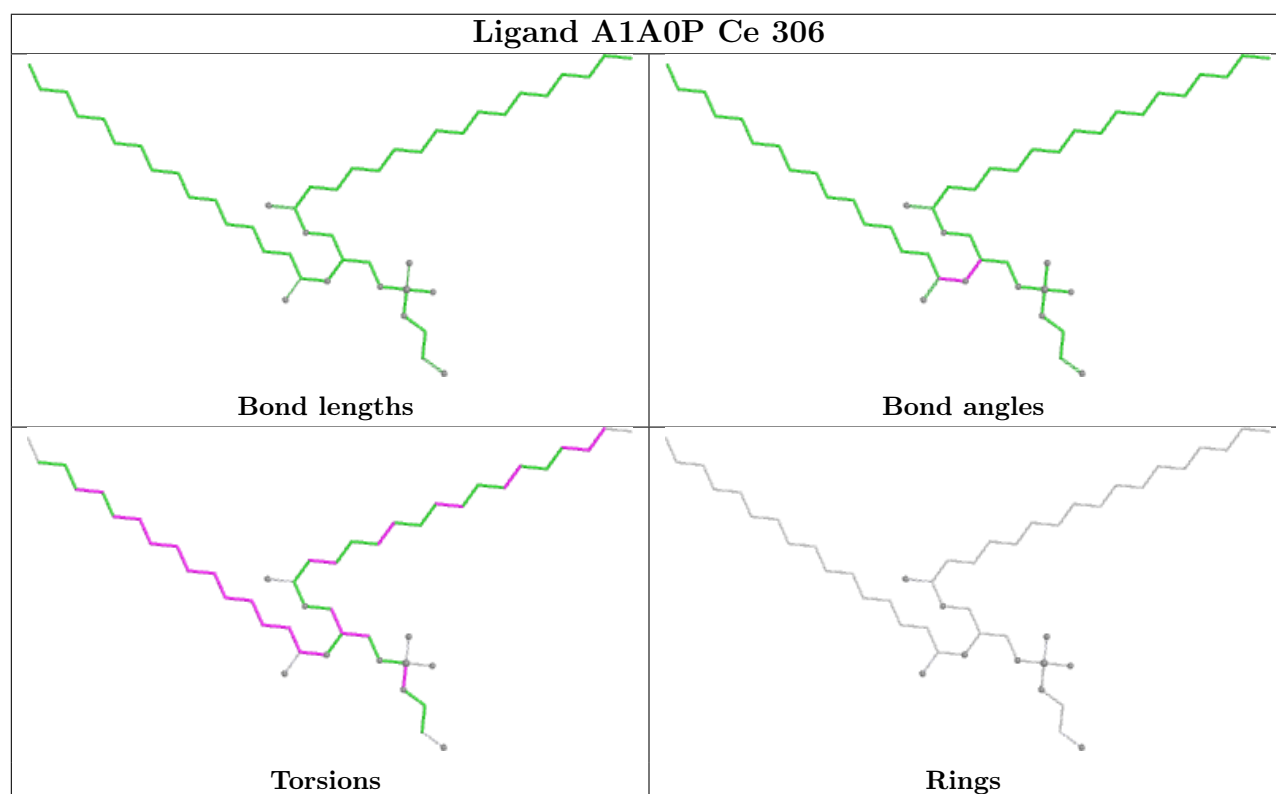
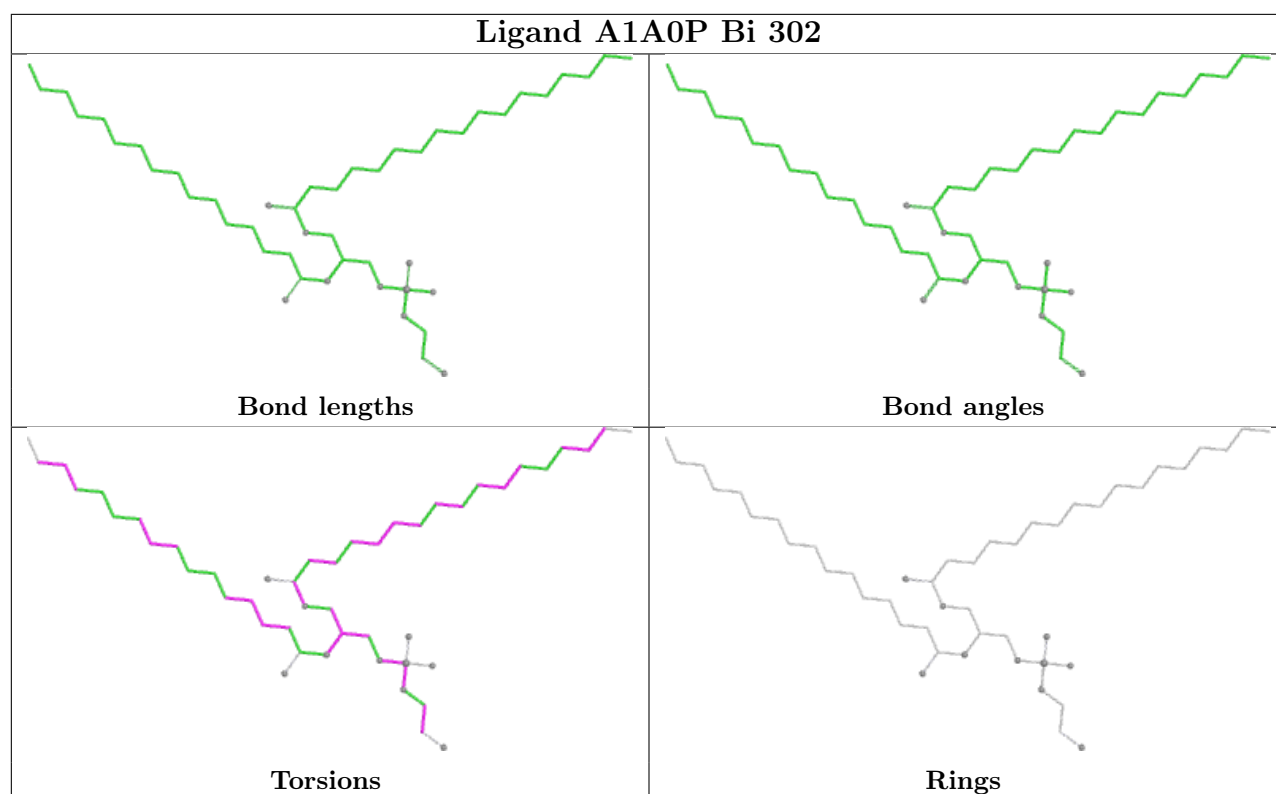


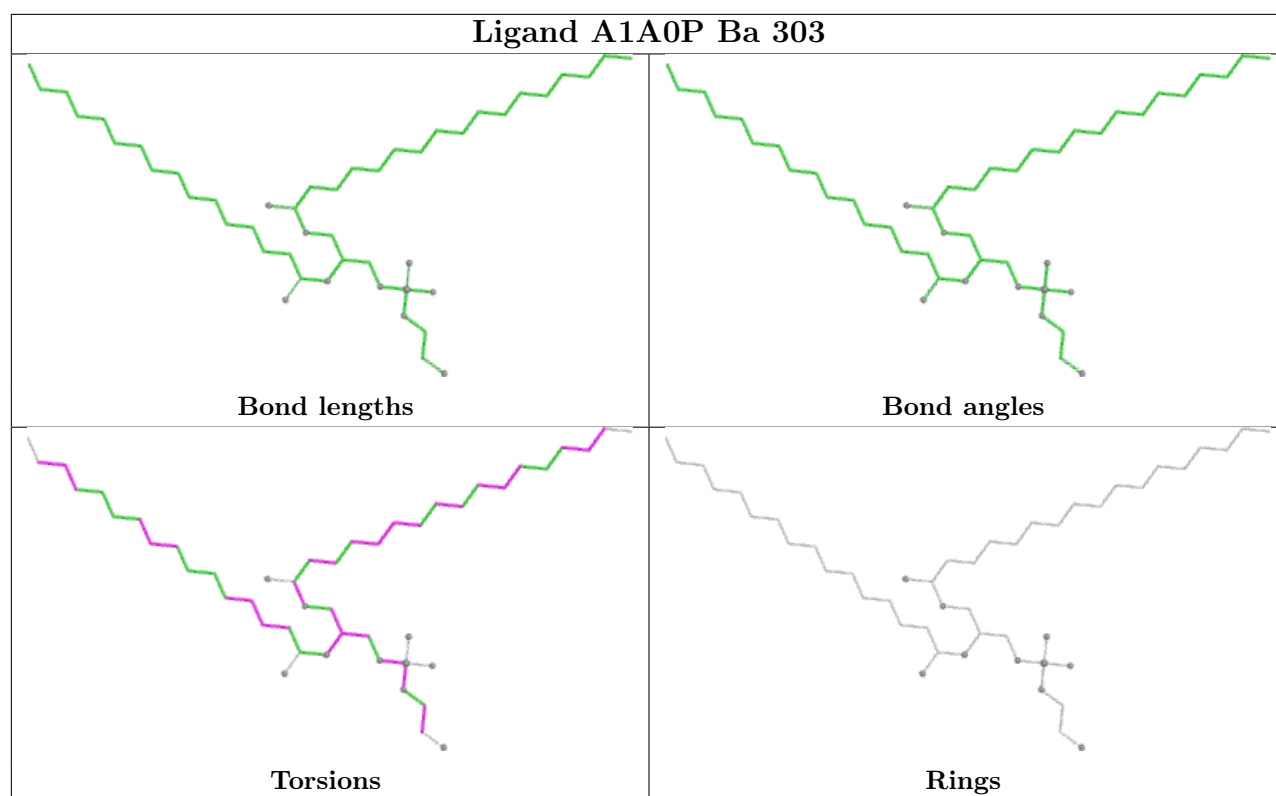


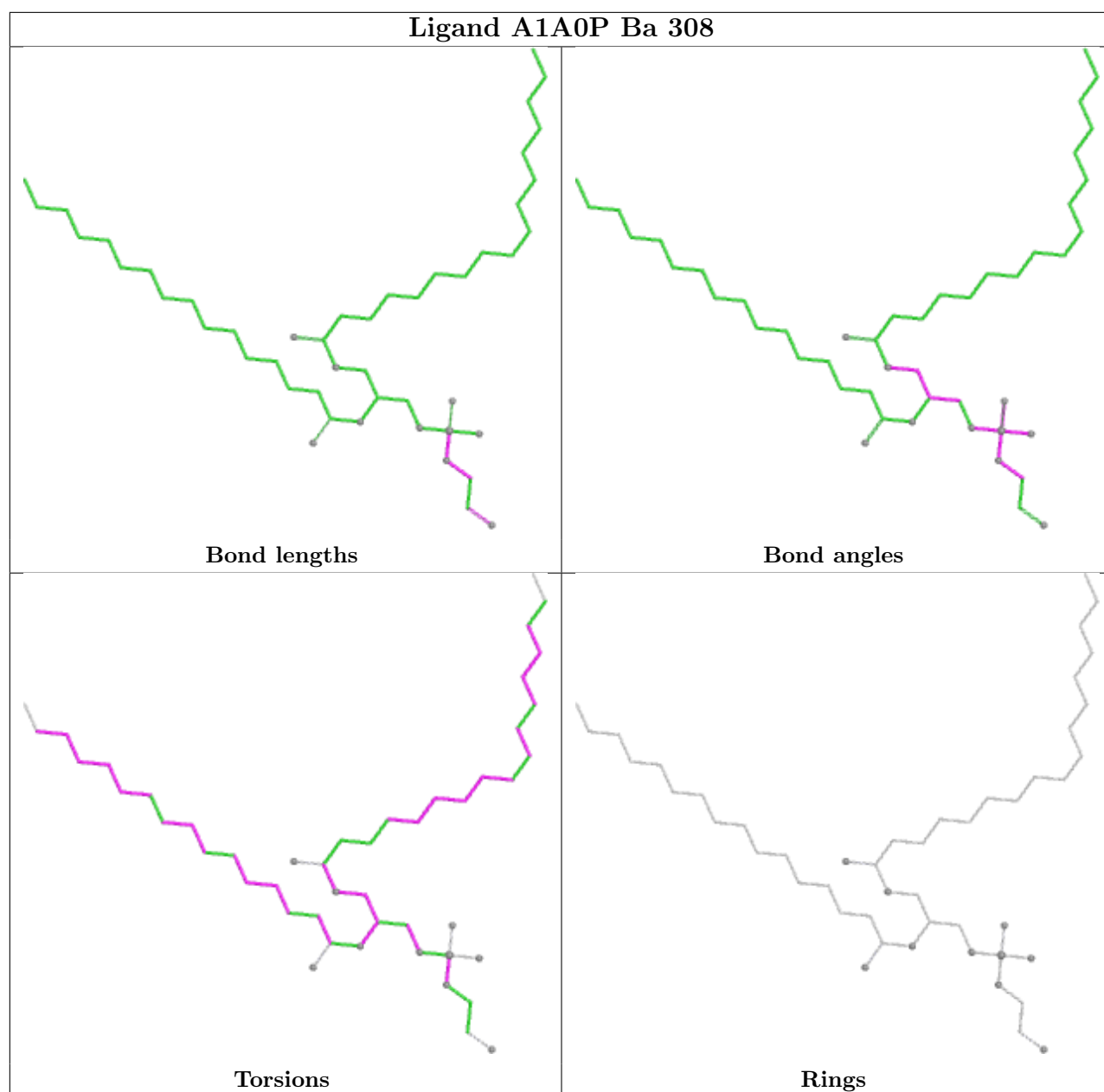


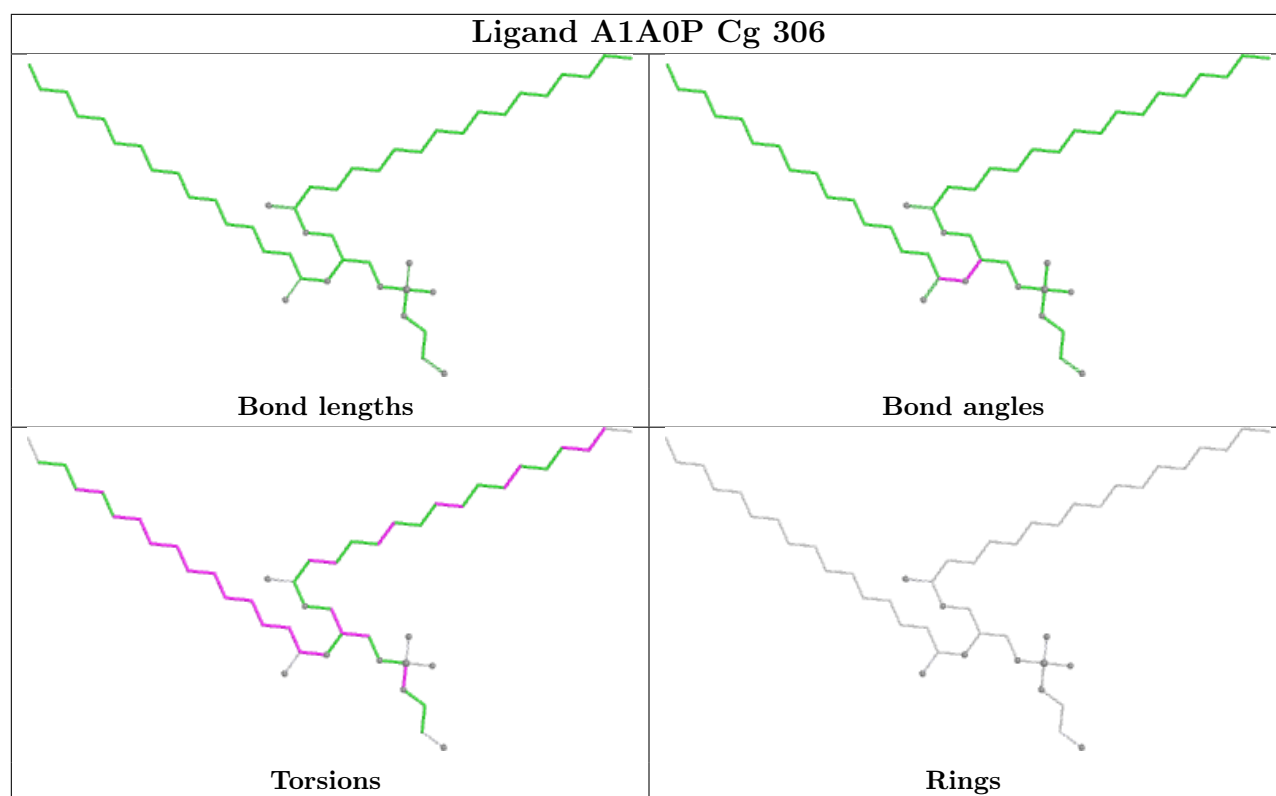


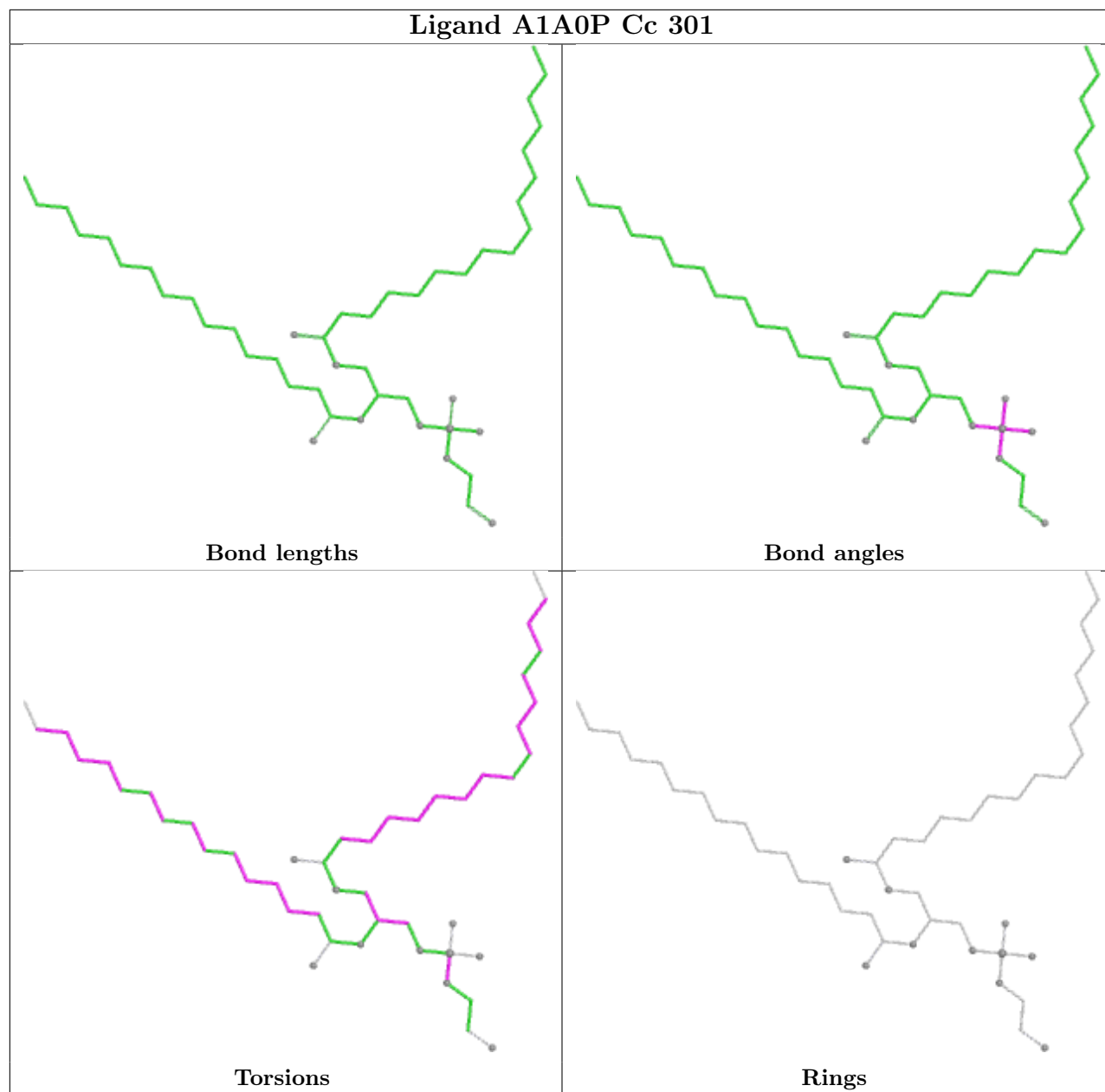


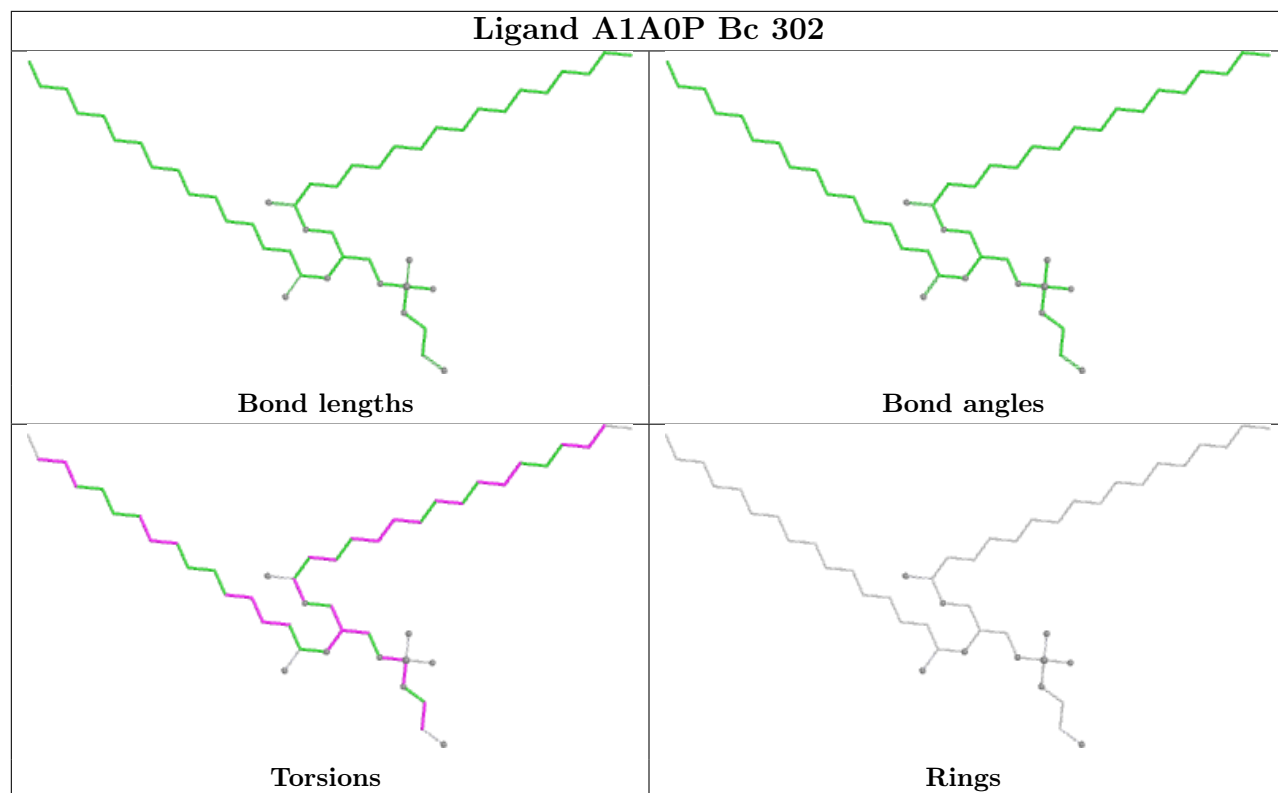


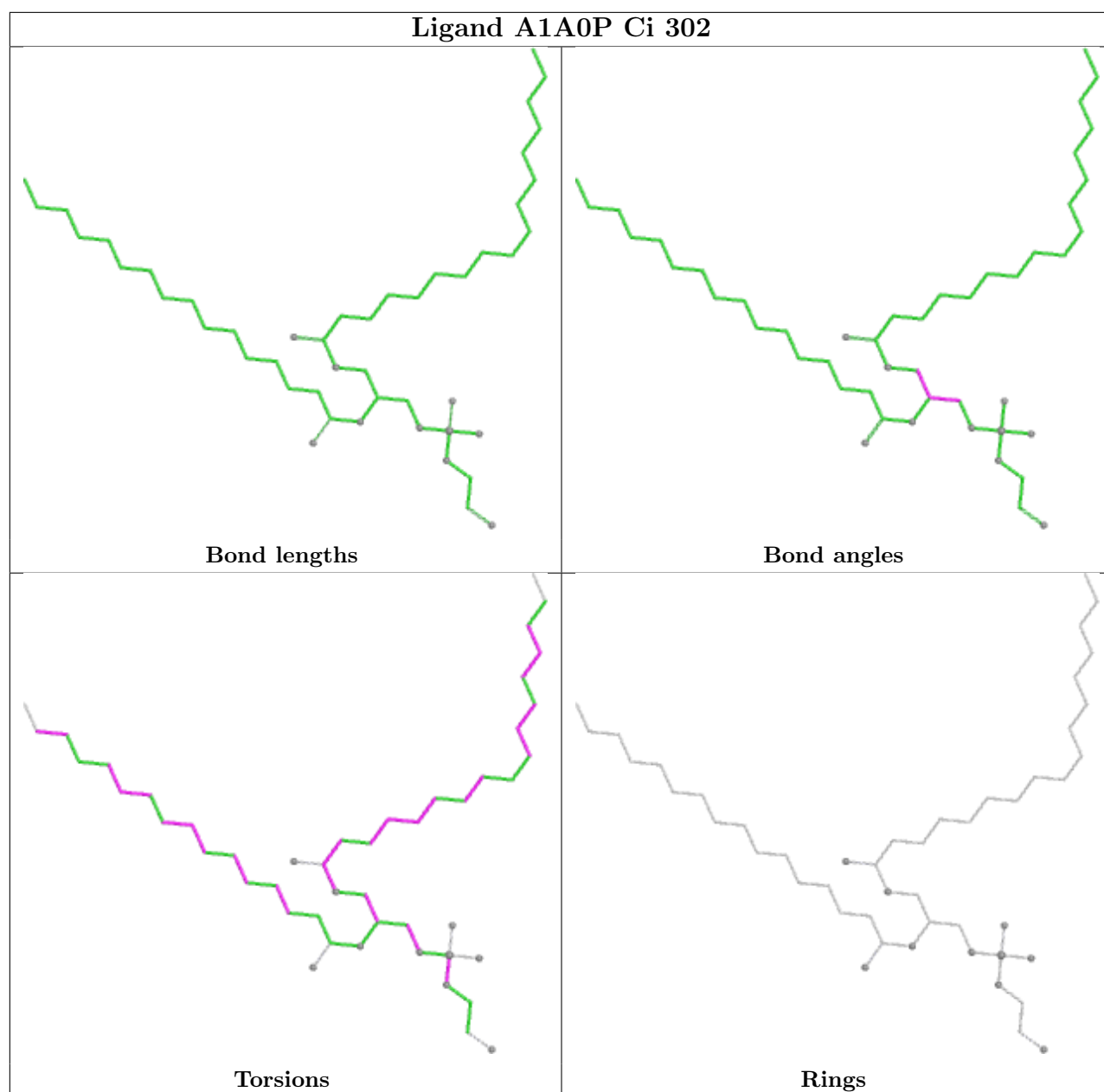


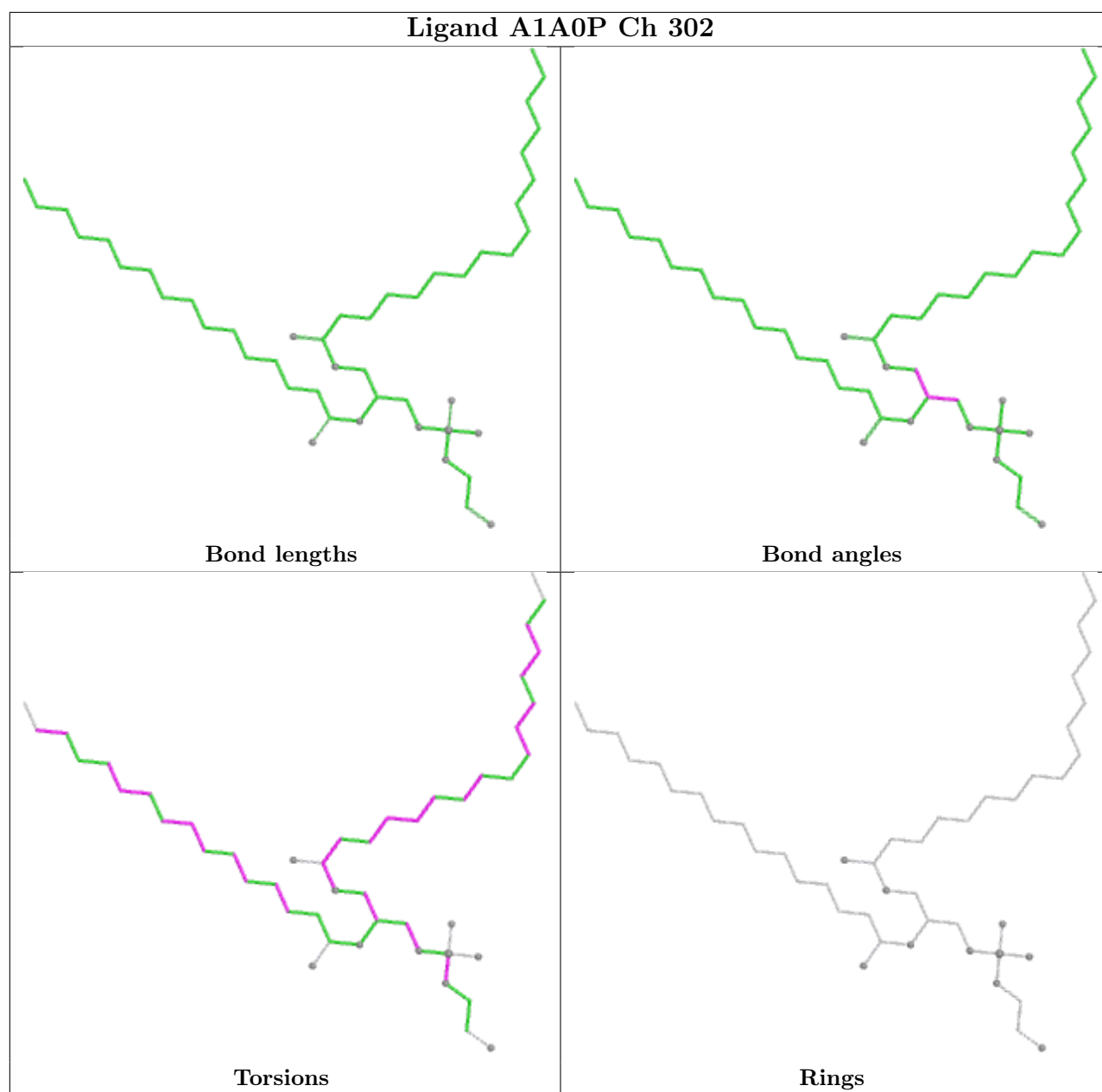


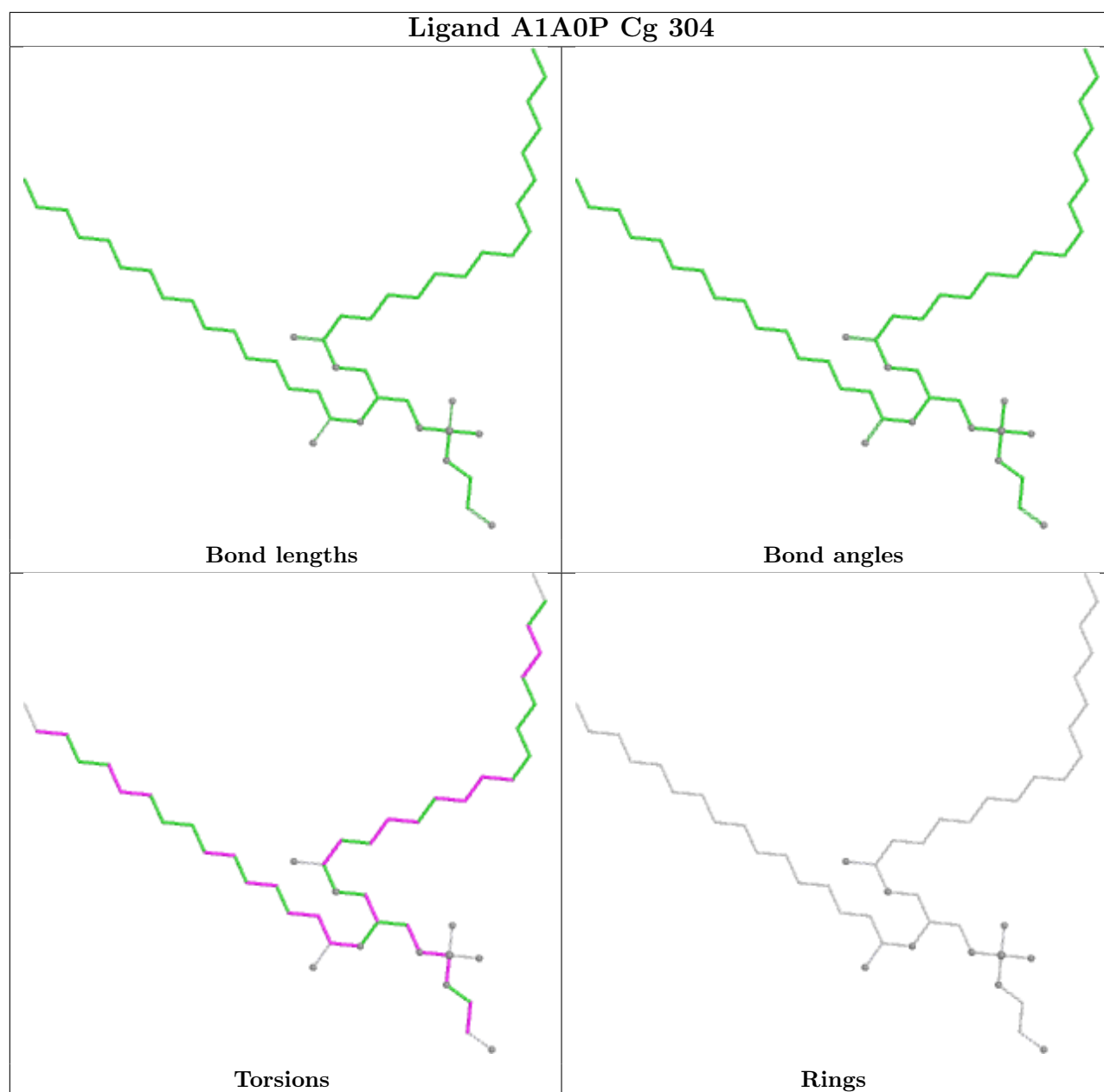


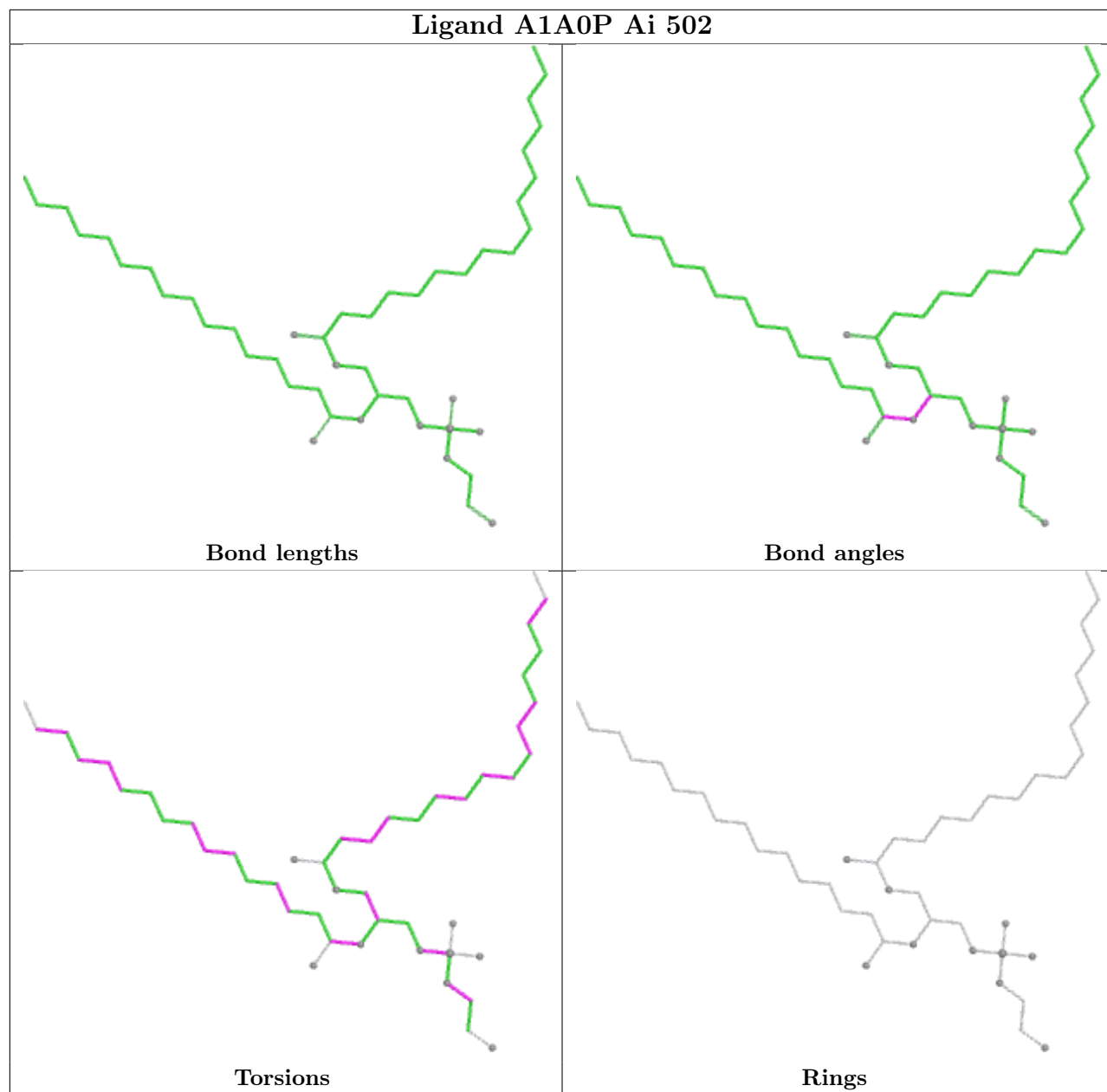


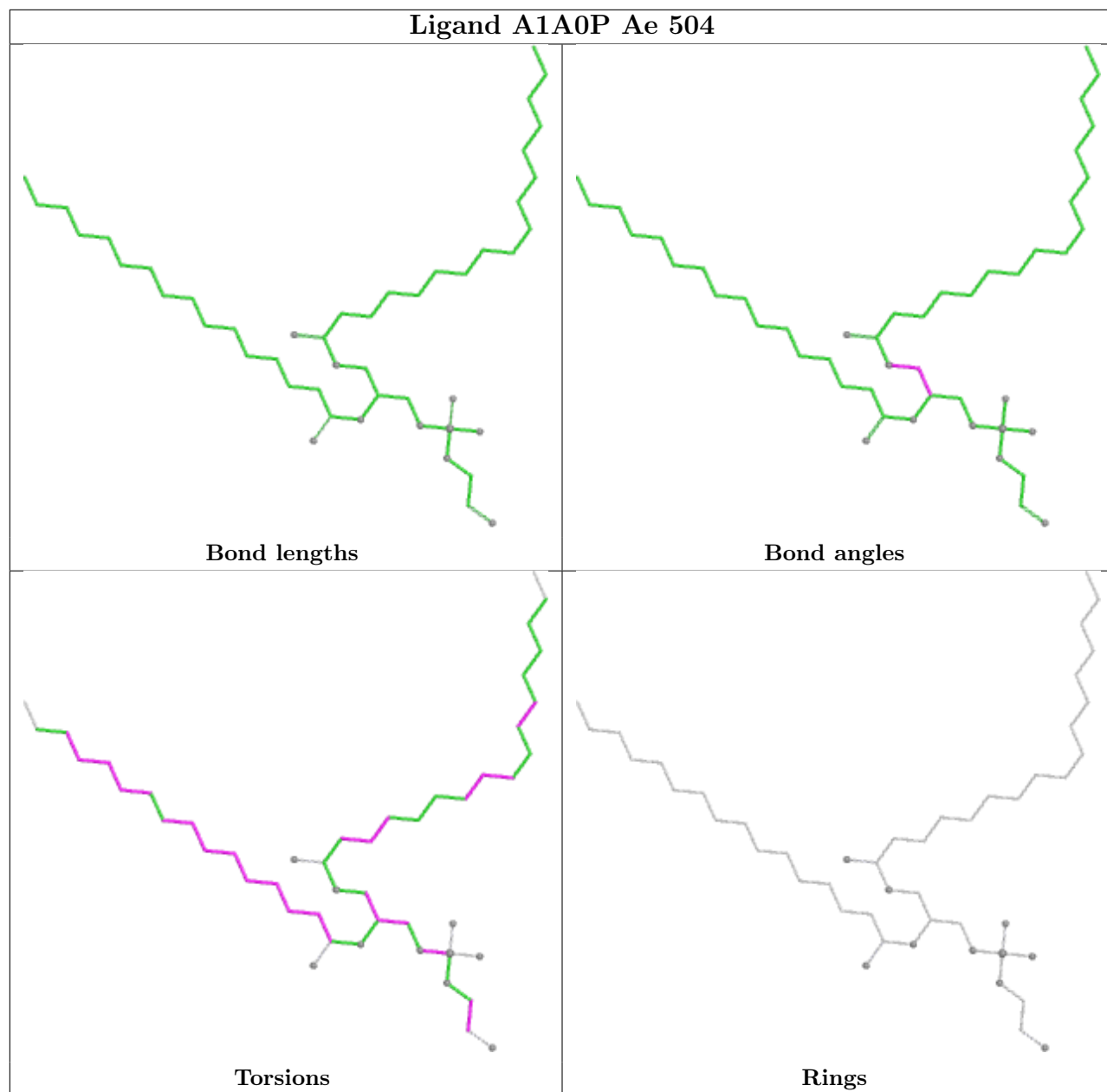


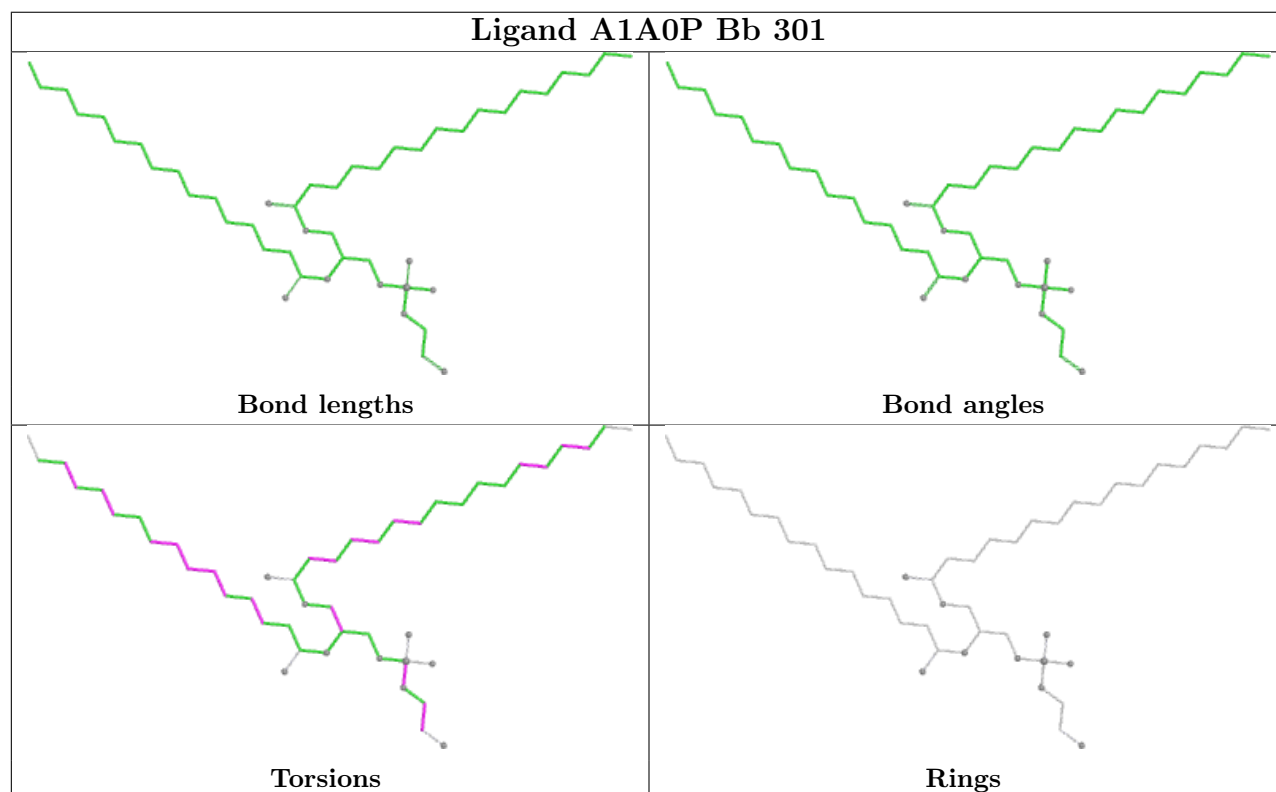
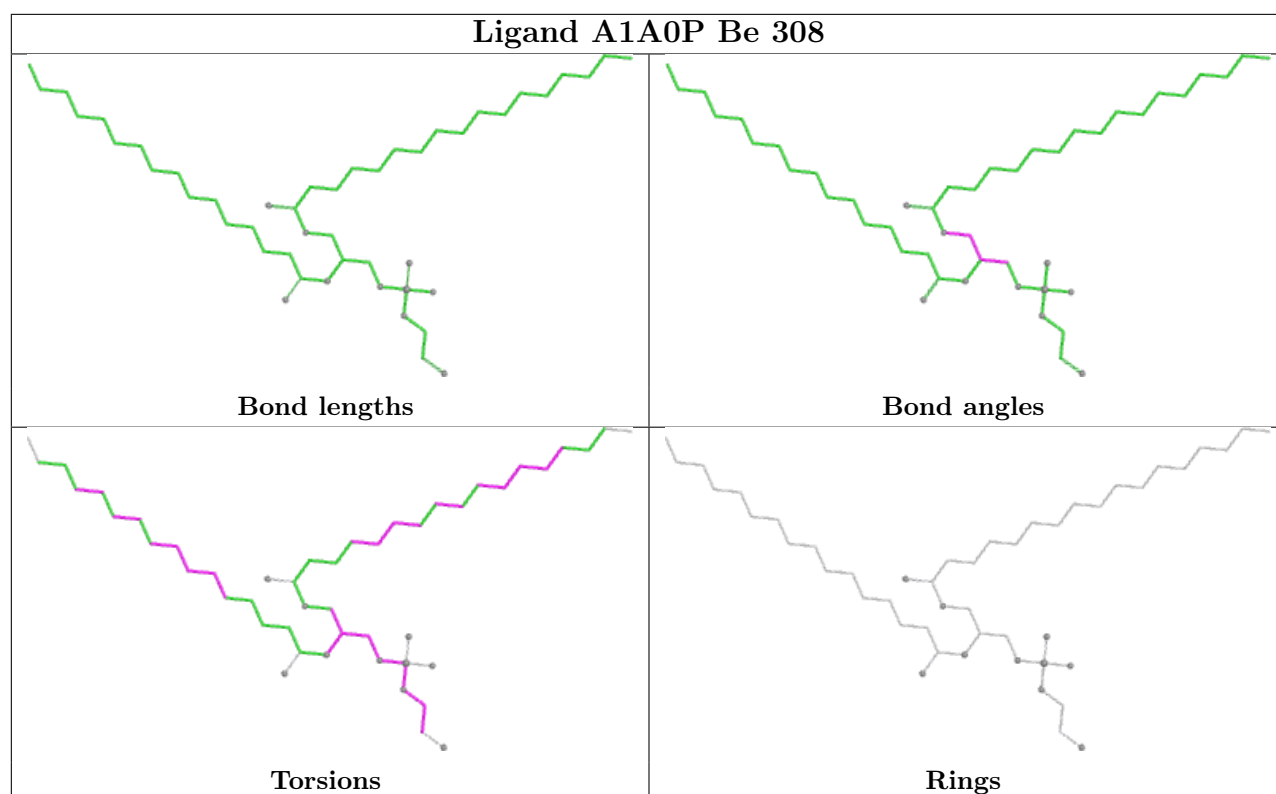


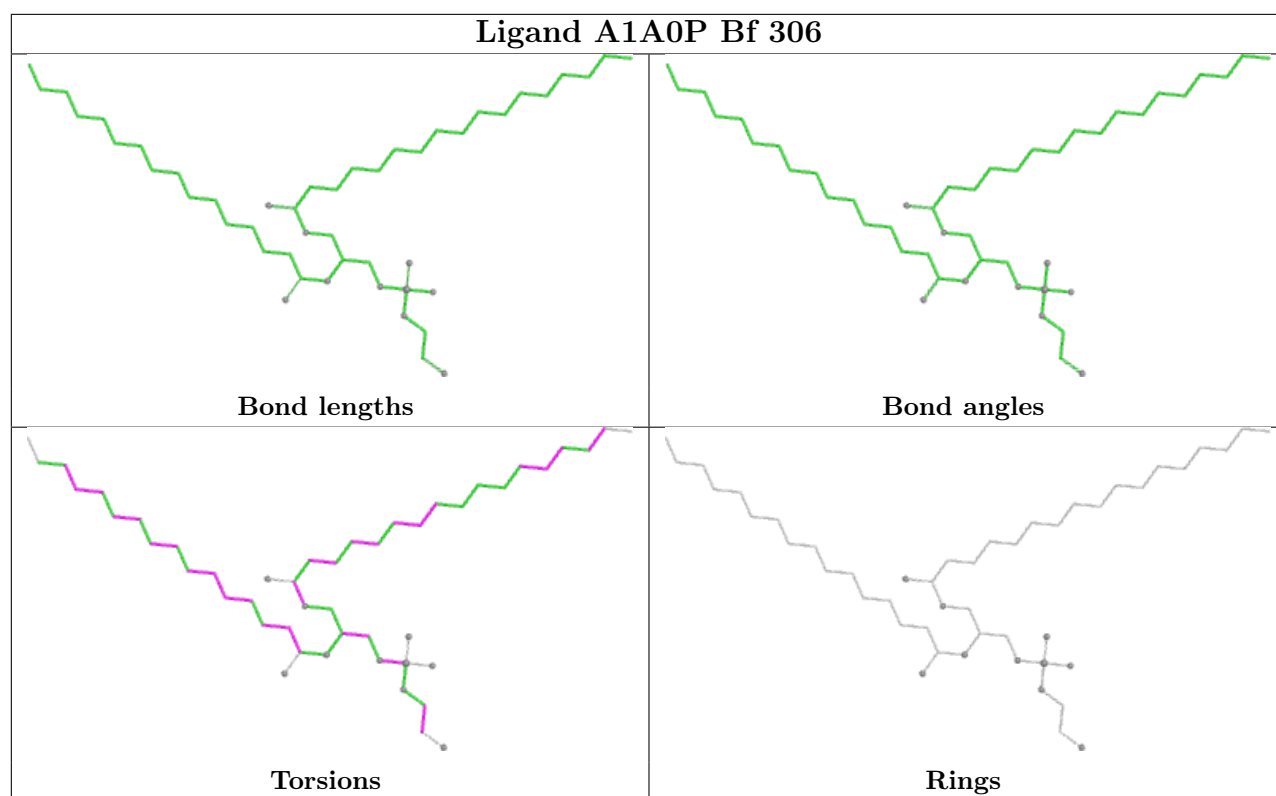


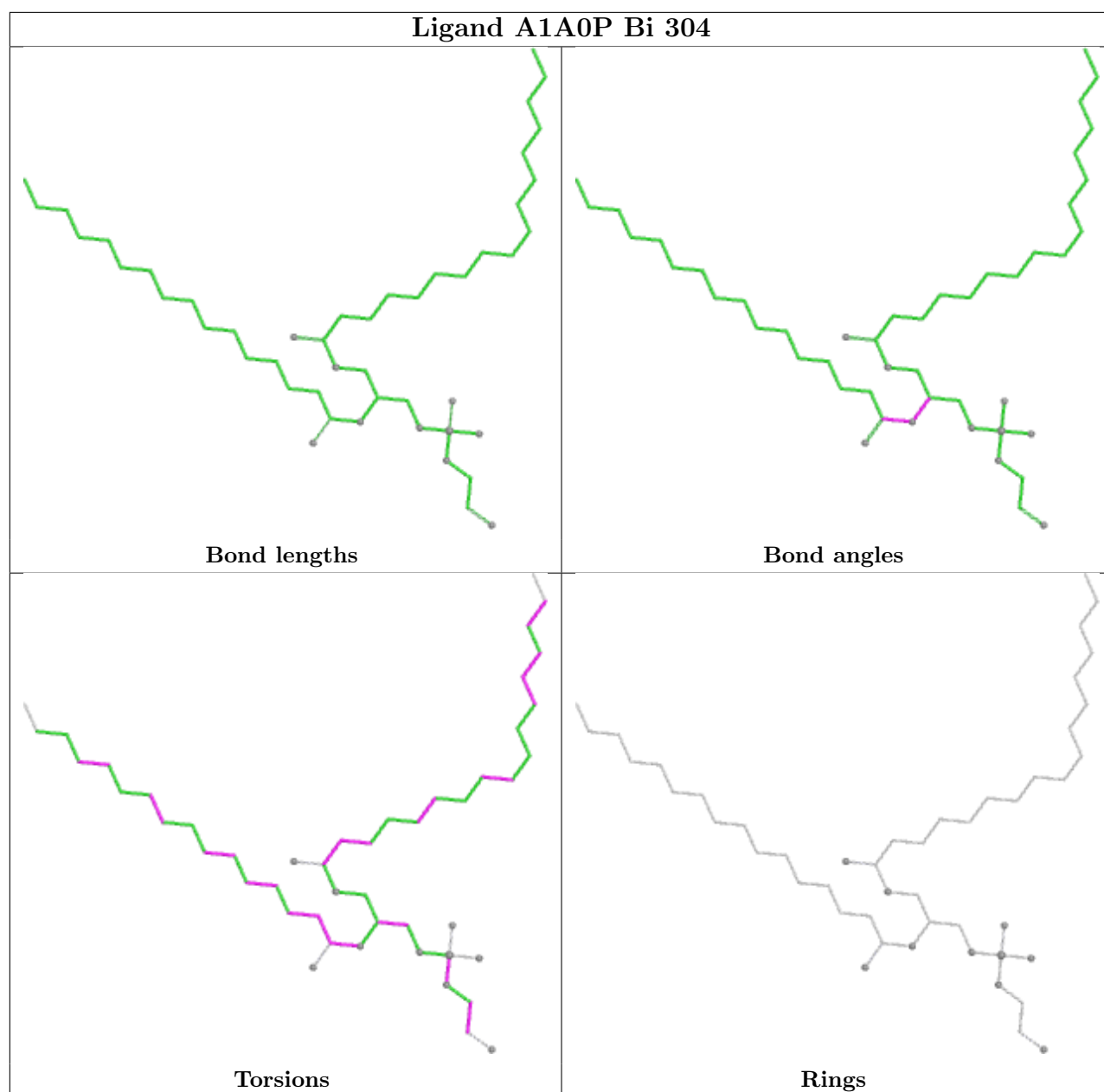


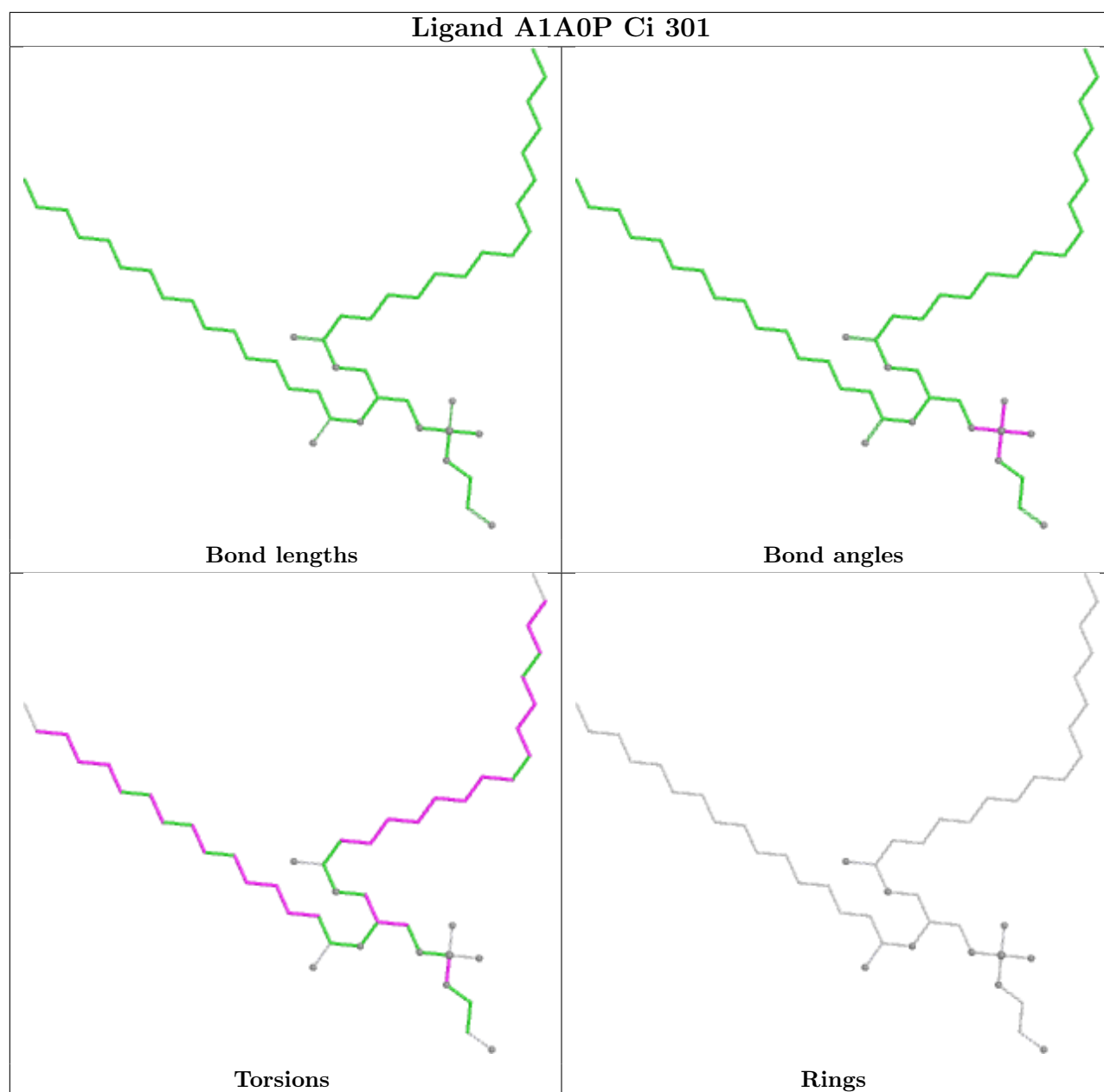


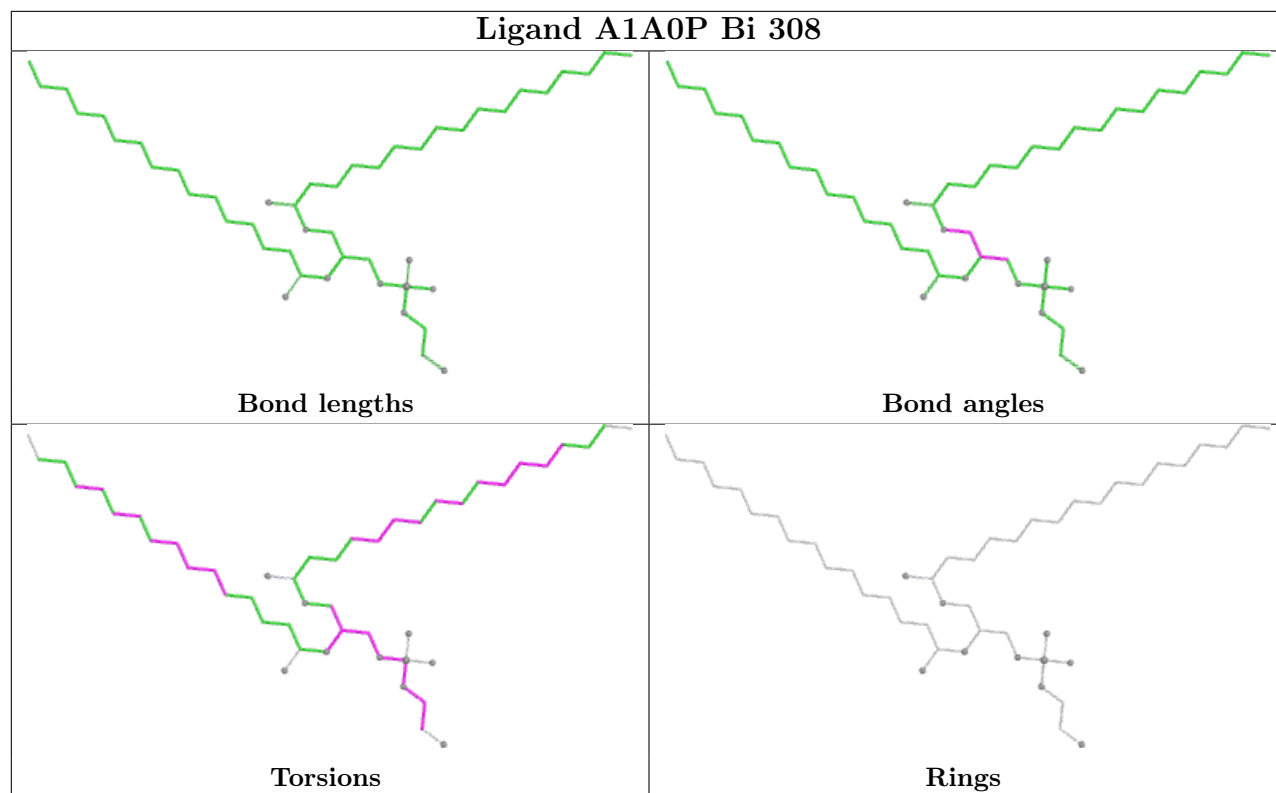


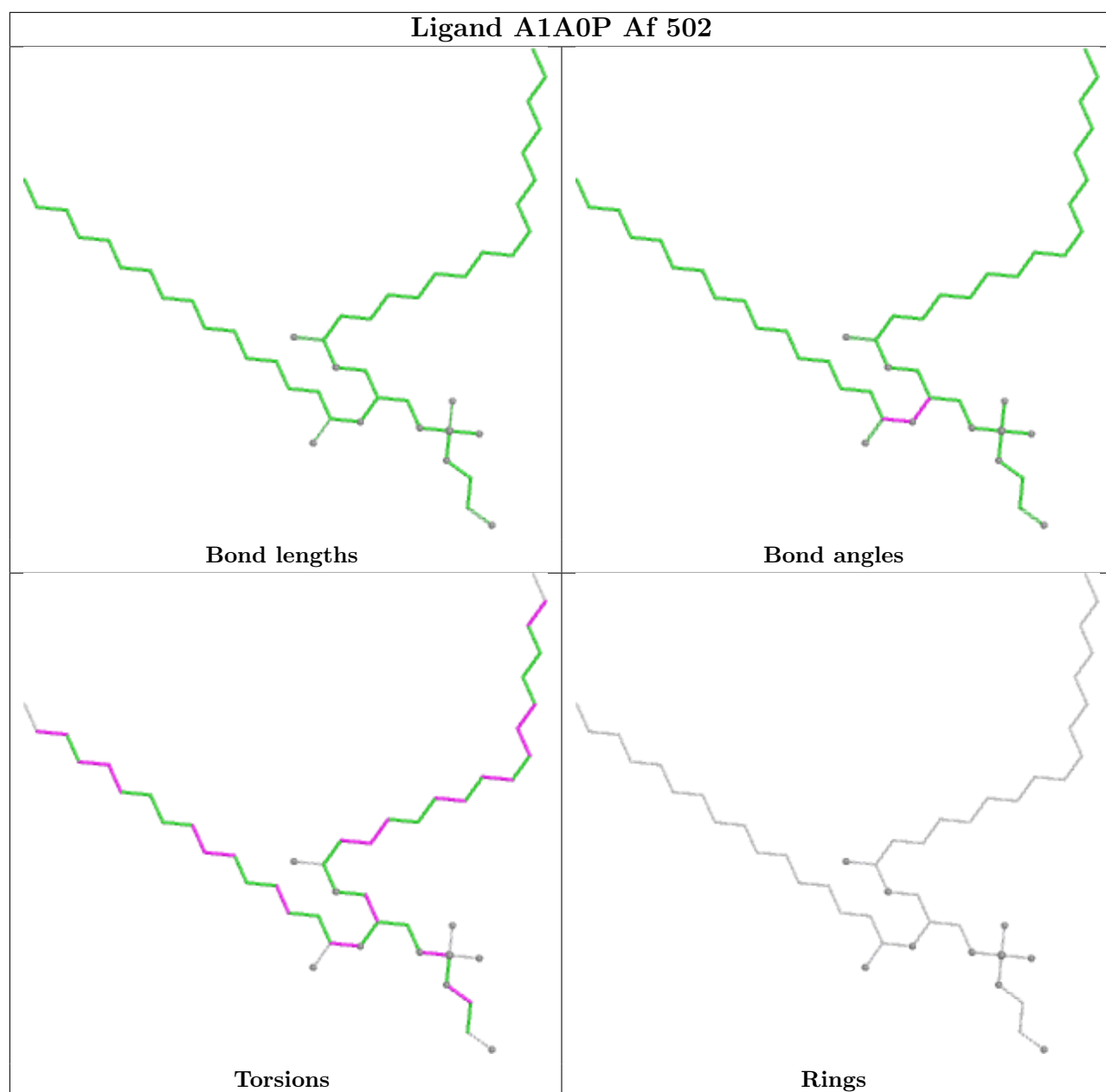


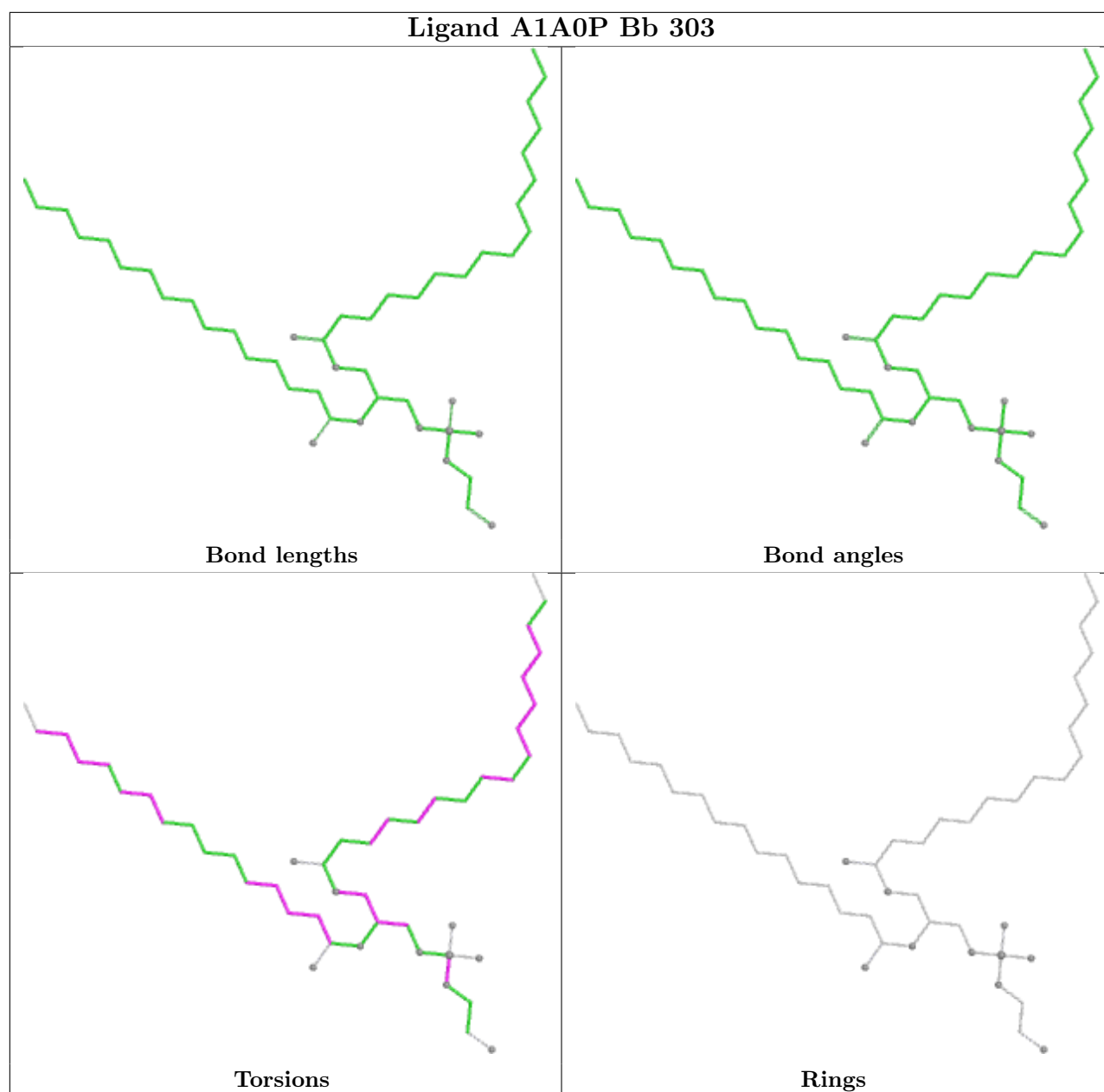


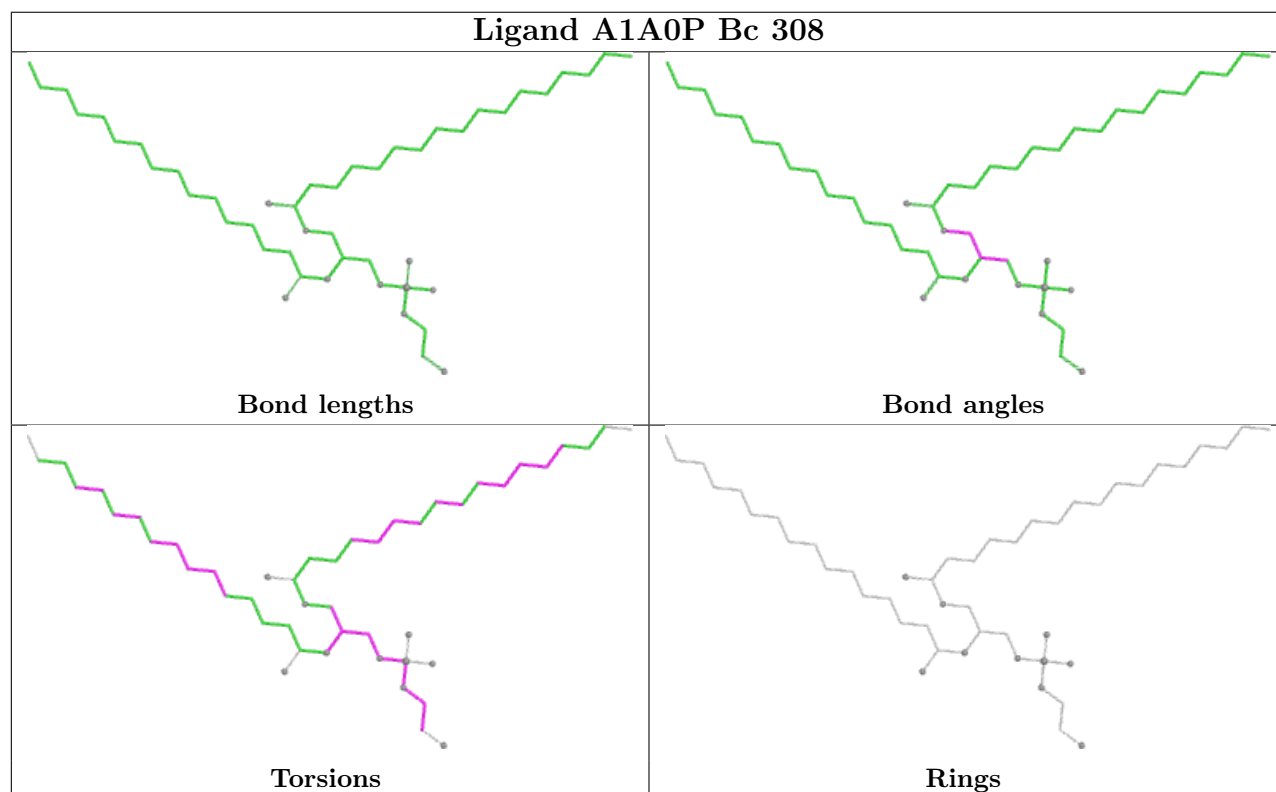
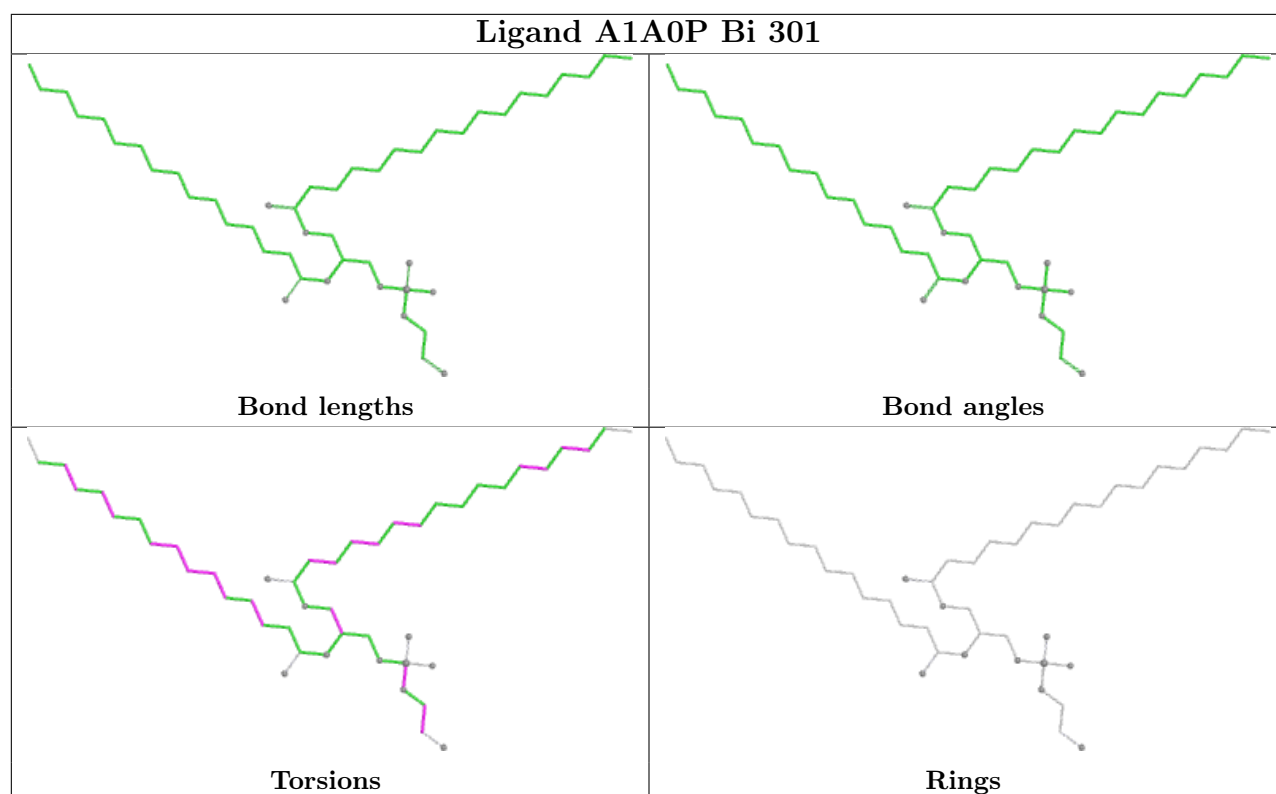


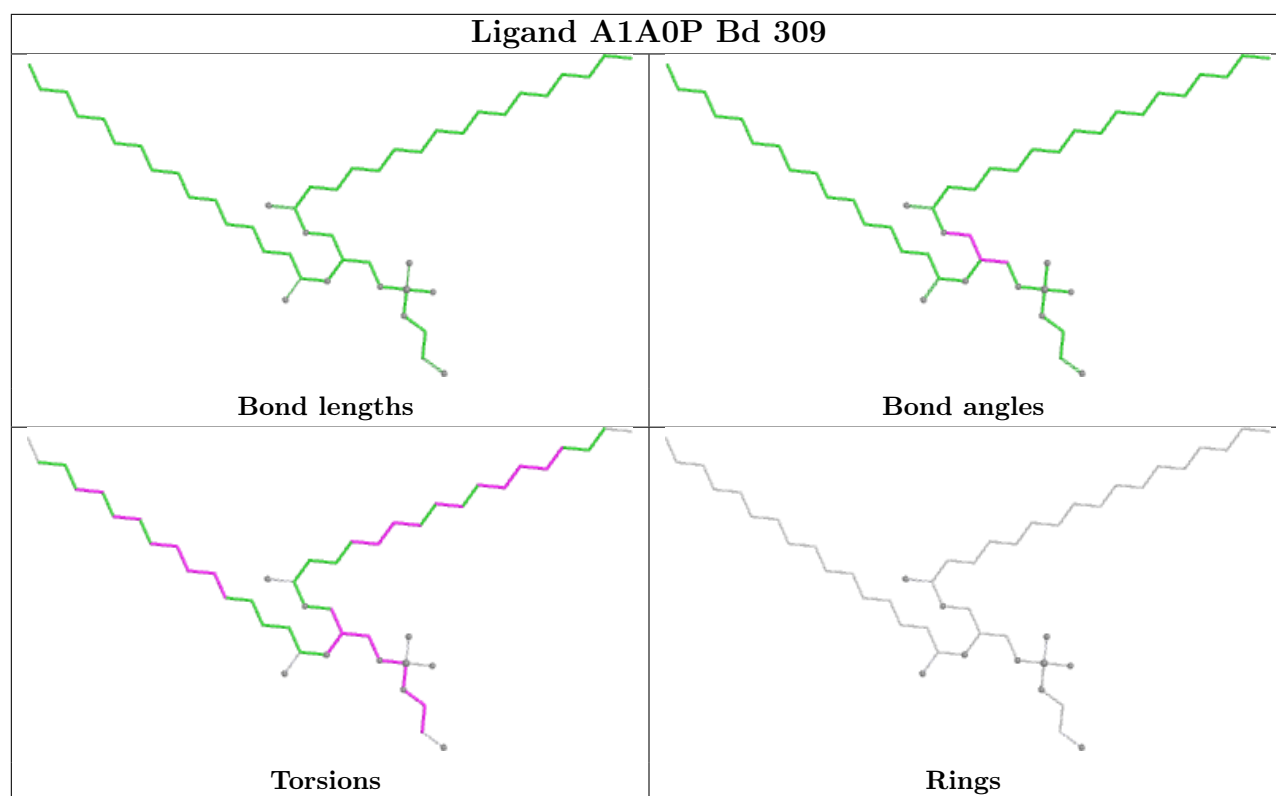












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

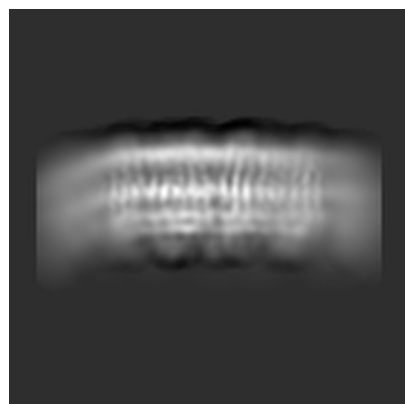
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-75807. These allow visual inspection of the internal detail of the map and identification of artifacts.

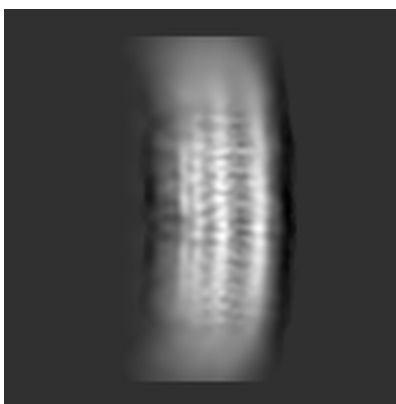
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

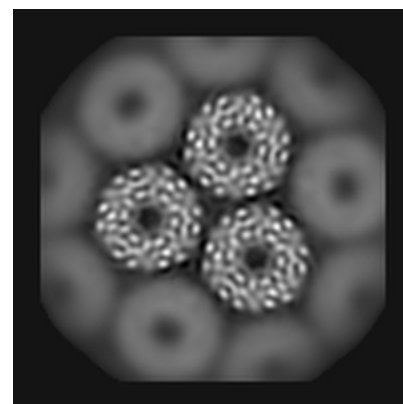
6.1.1 Primary map



X

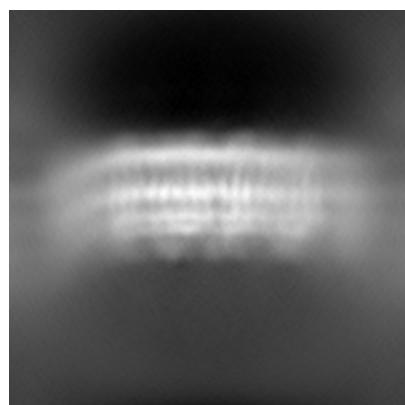


Y

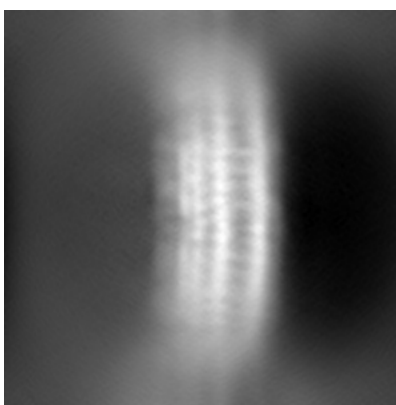


Z

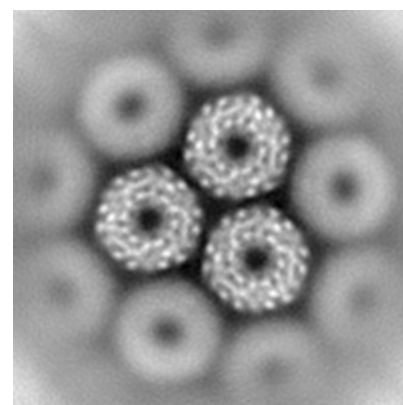
6.1.2 Raw map



X



Y

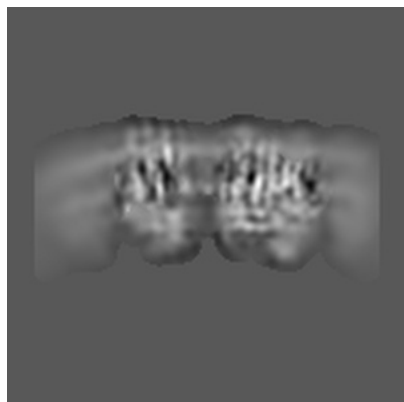


Z

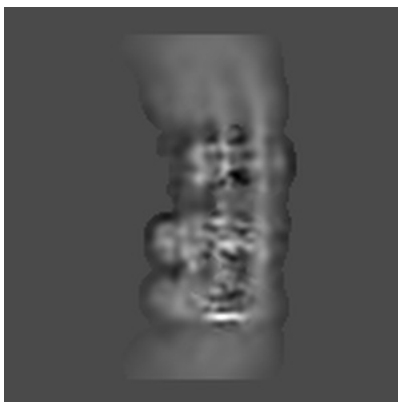
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

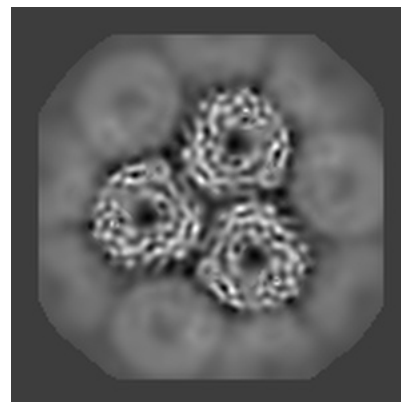
6.2.1 Primary map



X Index: 80



Y Index: 80

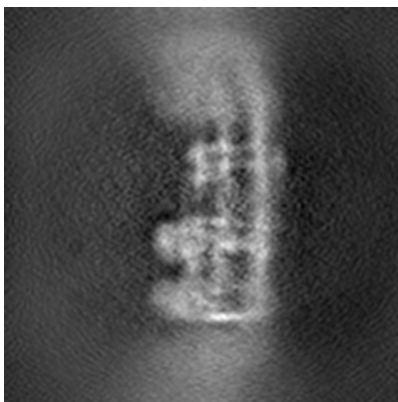


Z Index: 80

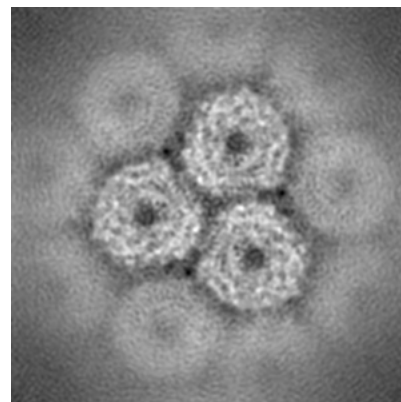
6.2.2 Raw map



X Index: 80



Y Index: 80

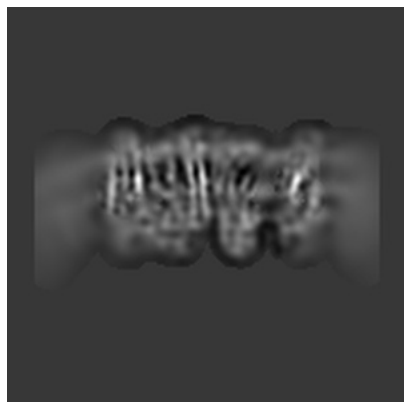


Z Index: 80

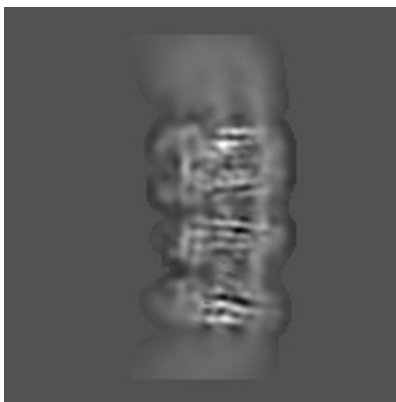
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

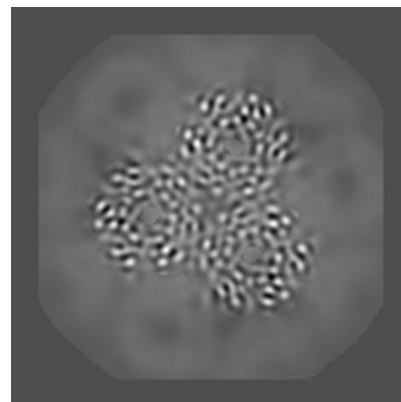
6.3.1 Primary map



X Index: 90

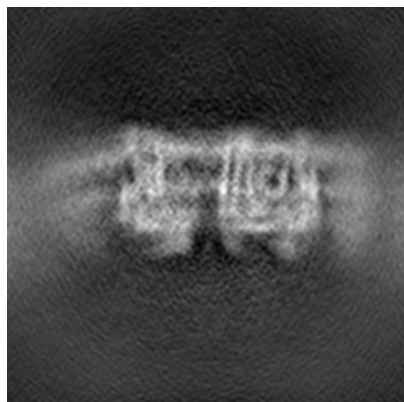


Y Index: 73

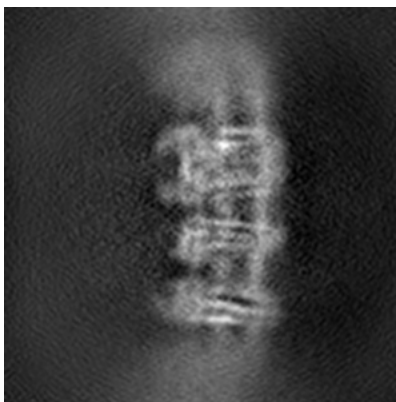


Z Index: 87

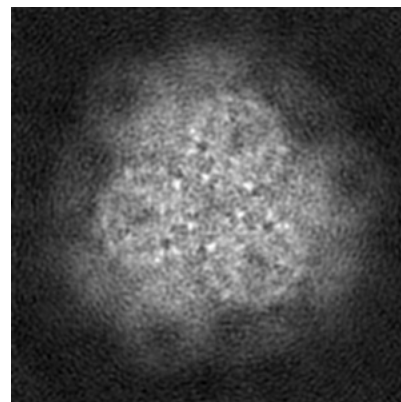
6.3.2 Raw map



X Index: 82



Y Index: 73

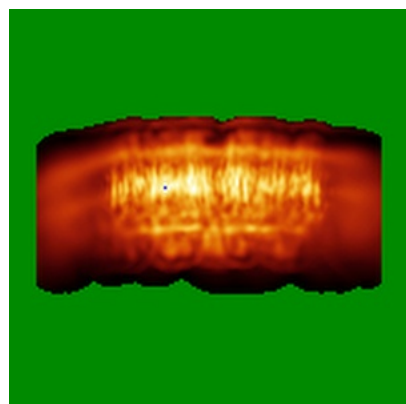


Z Index: 102

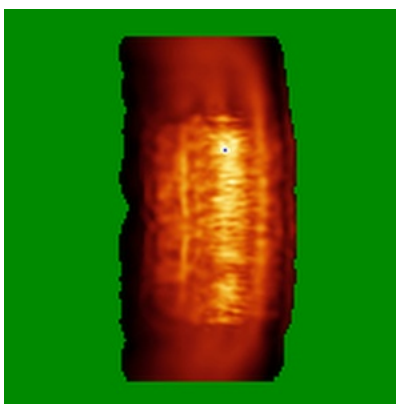
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

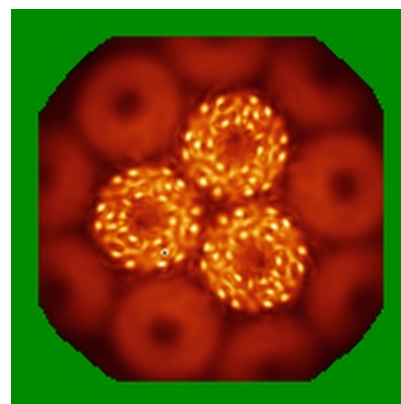
6.4.1 Primary map



X

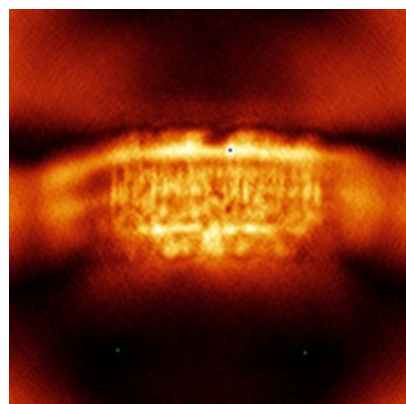


Y

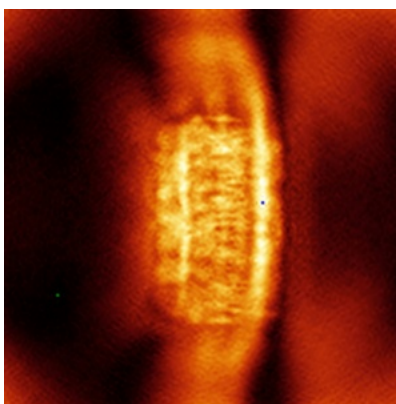


Z

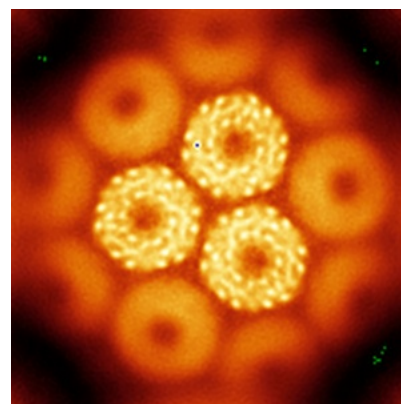
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.251. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

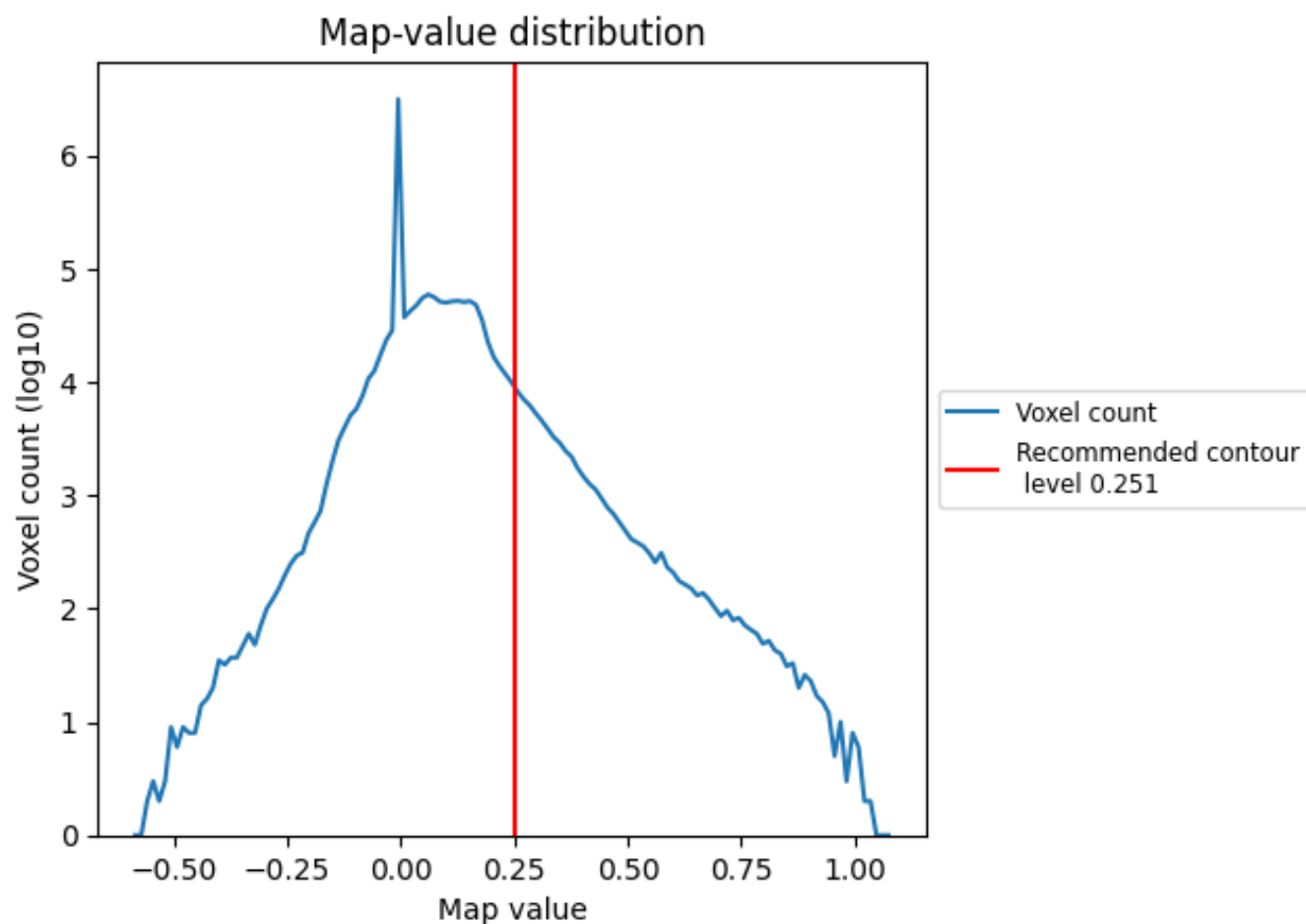
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

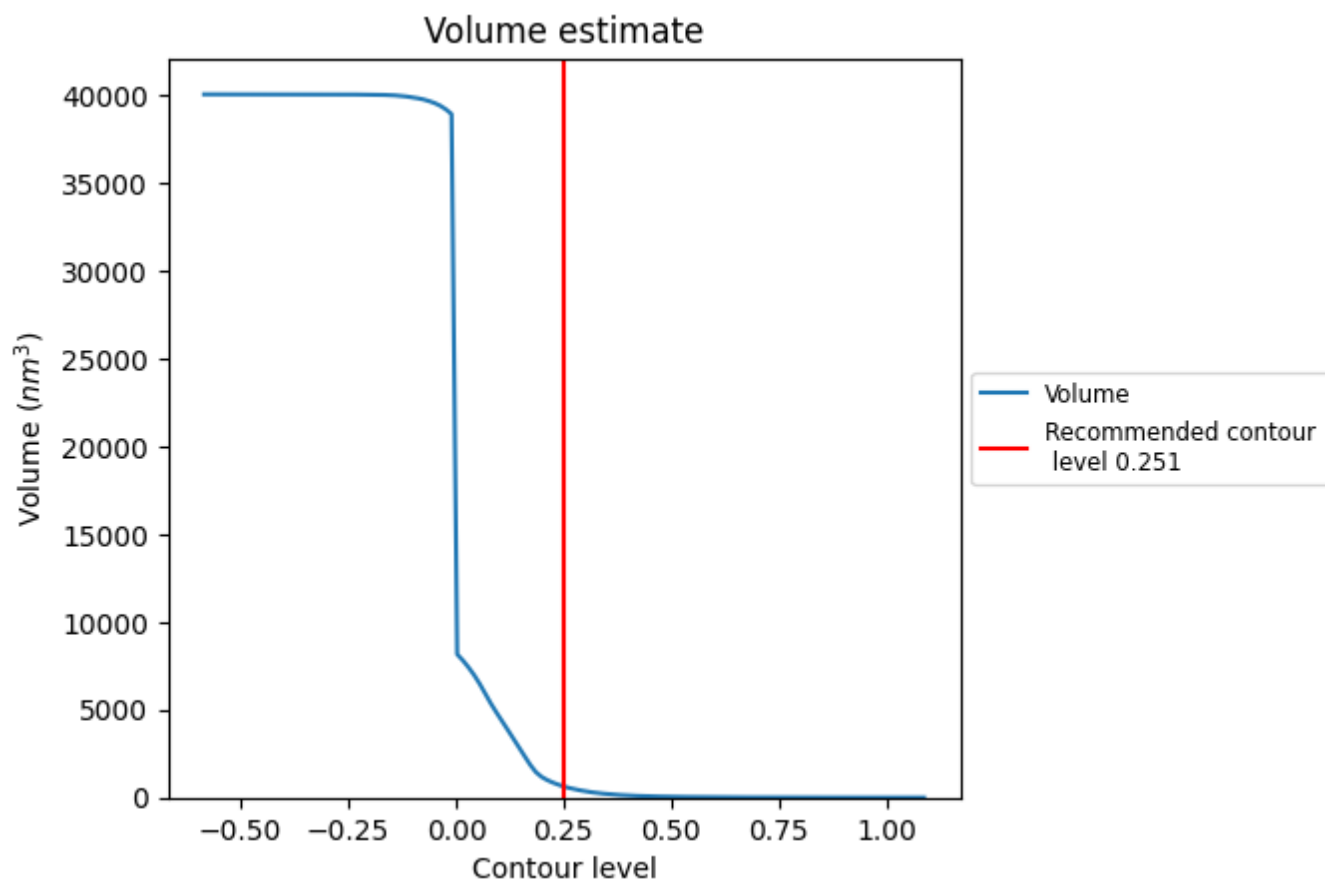
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

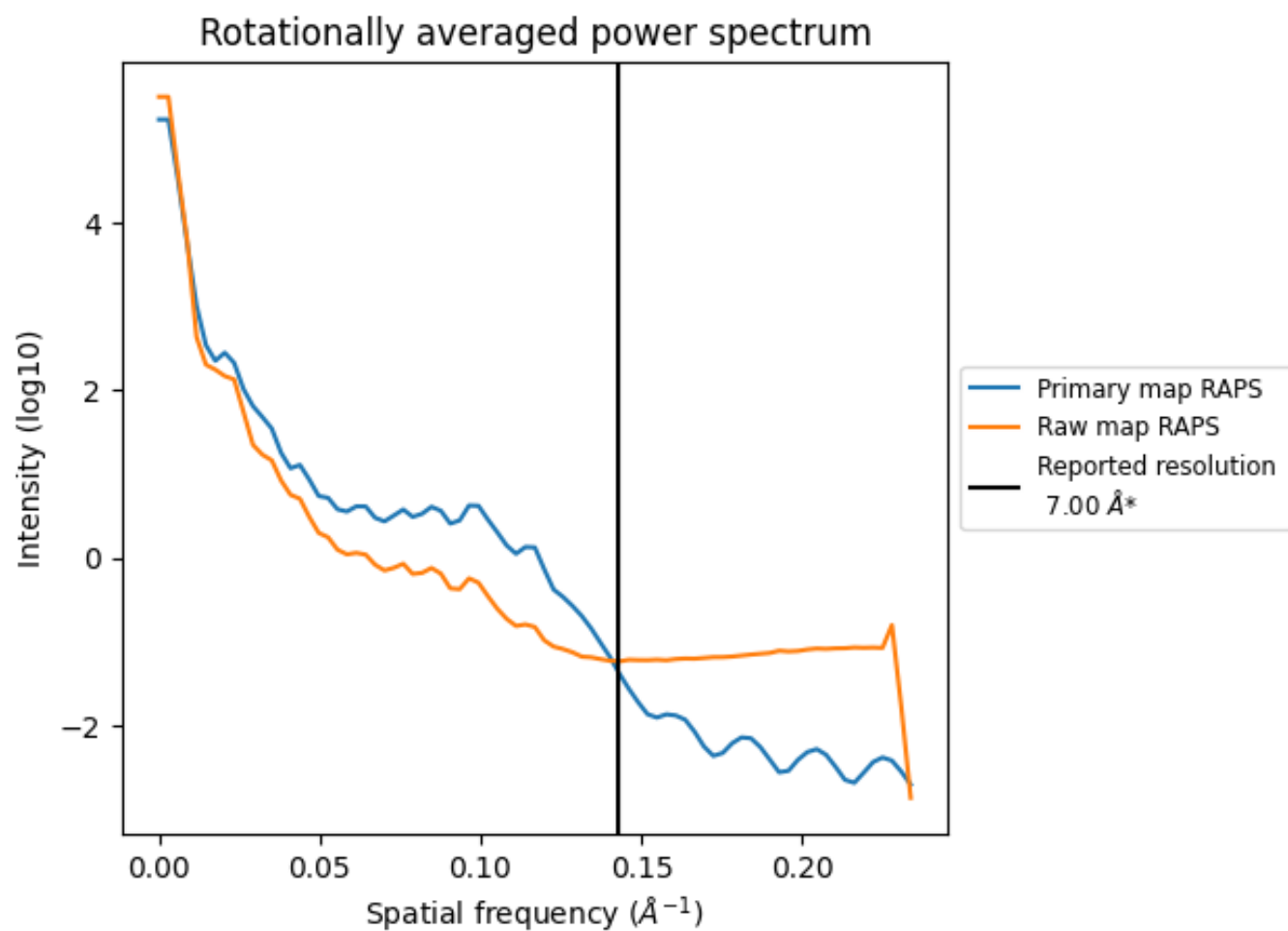
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 628 nm³; this corresponds to an approximate mass of 567 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

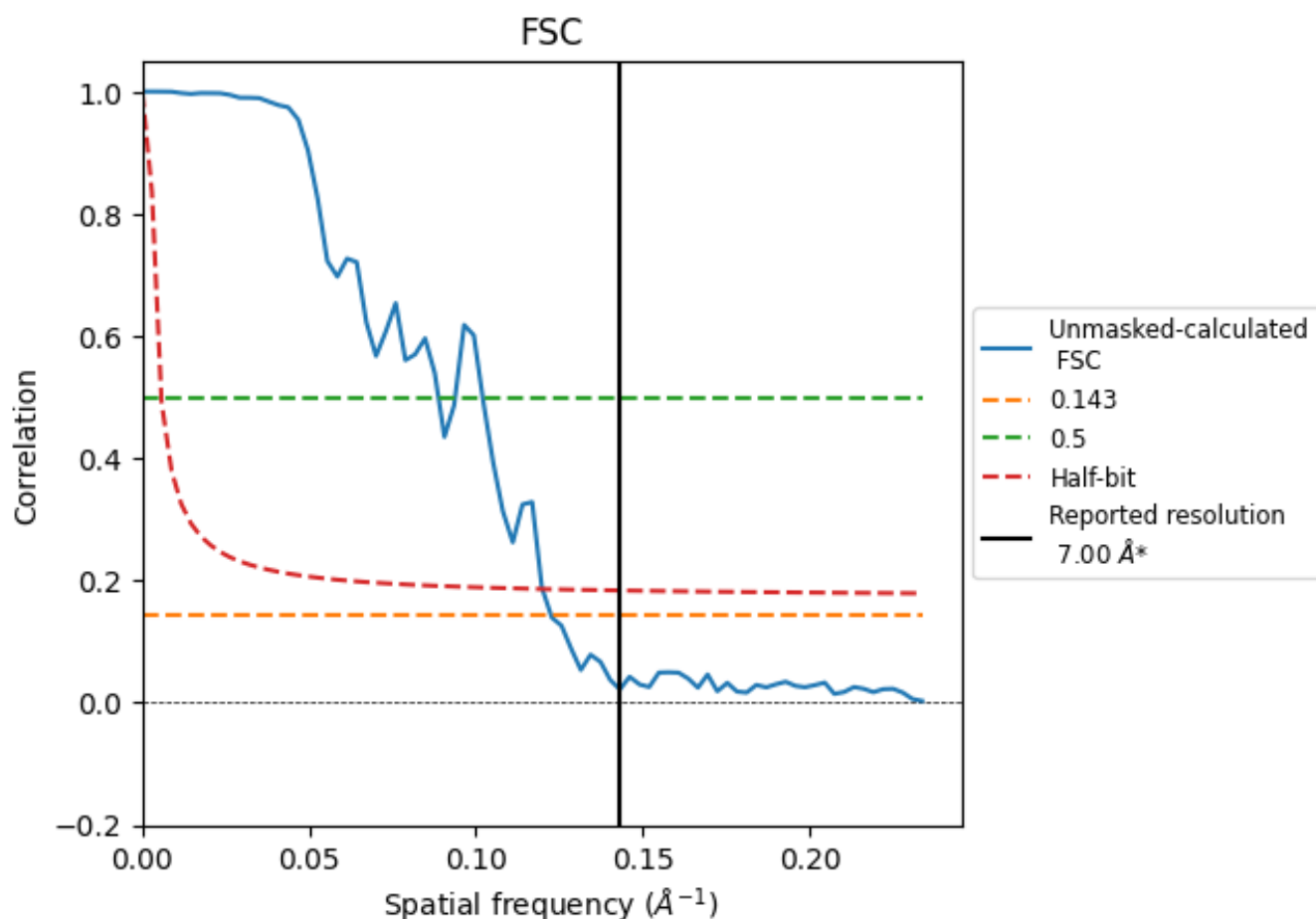


*Reported resolution corresponds to spatial frequency of 0.143 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.143 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

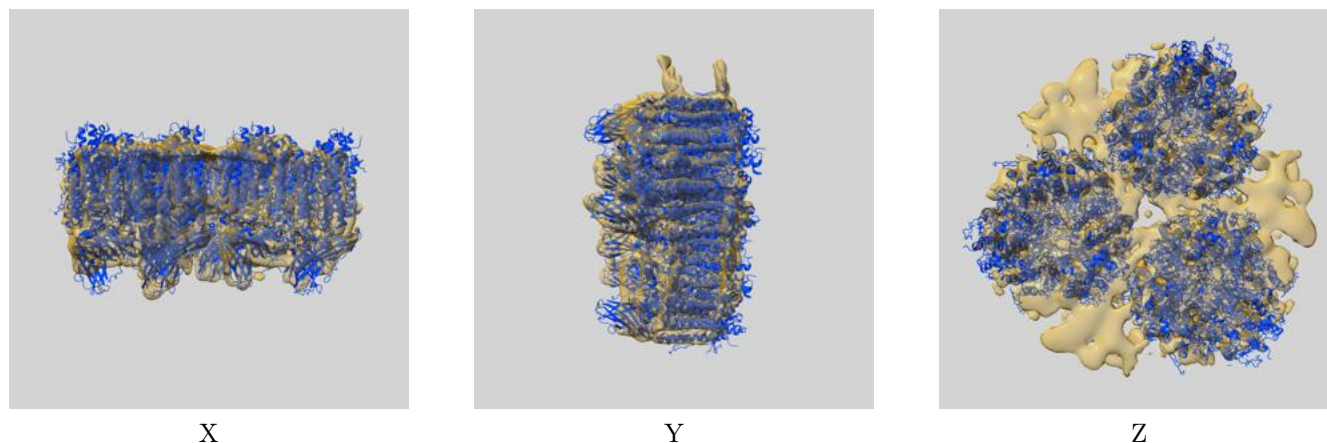
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.00	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	8.16	11.26	8.33

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.16 differs from the reported value 7.0 by more than 10 %

9 Map-model fit [i](#)

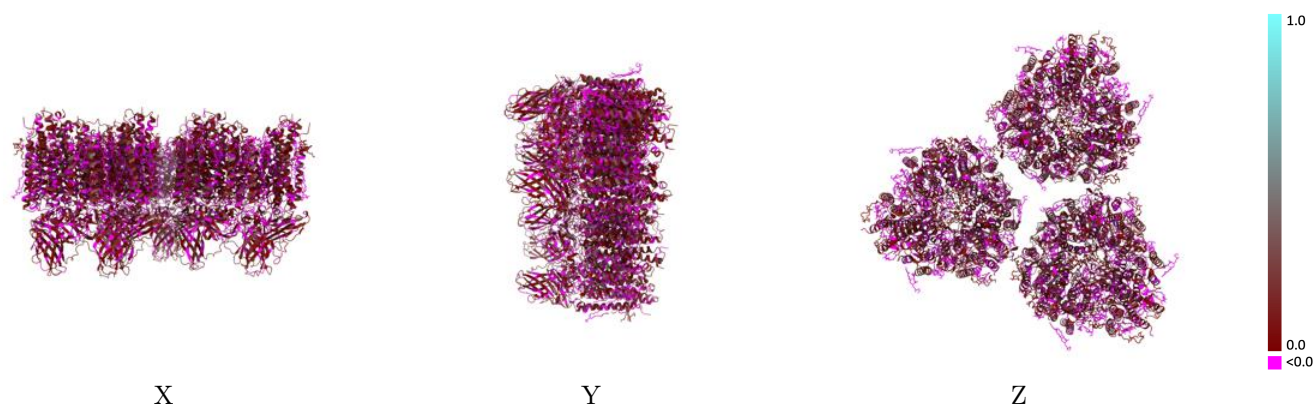
This section contains information regarding the fit between EMDB map EMD-75807 and PDB model 11LL. Per-residue inclusion information can be found in [section 3](#) on [page 18](#).

9.1 Map-model overlay [i](#)



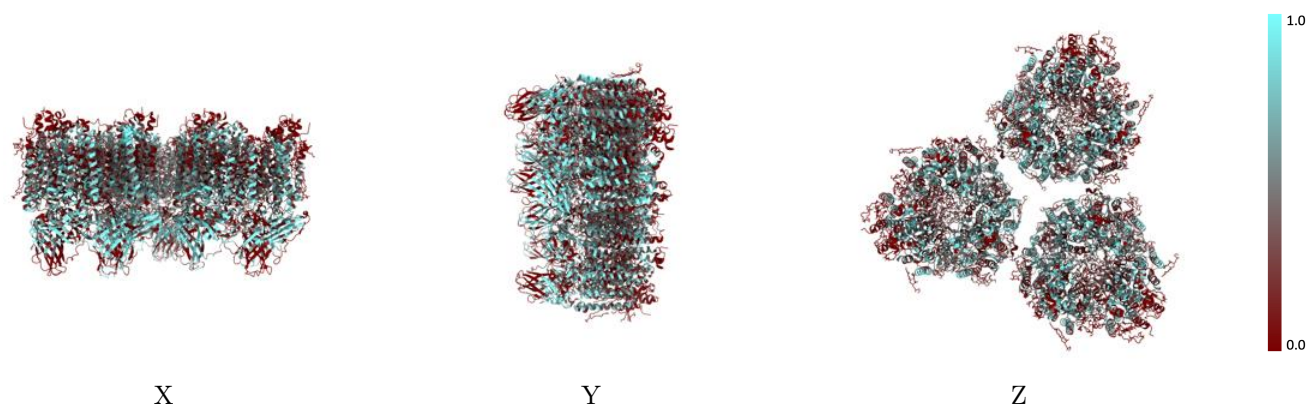
The images above show the 3D surface view of the map at the recommended contour level 0.251 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



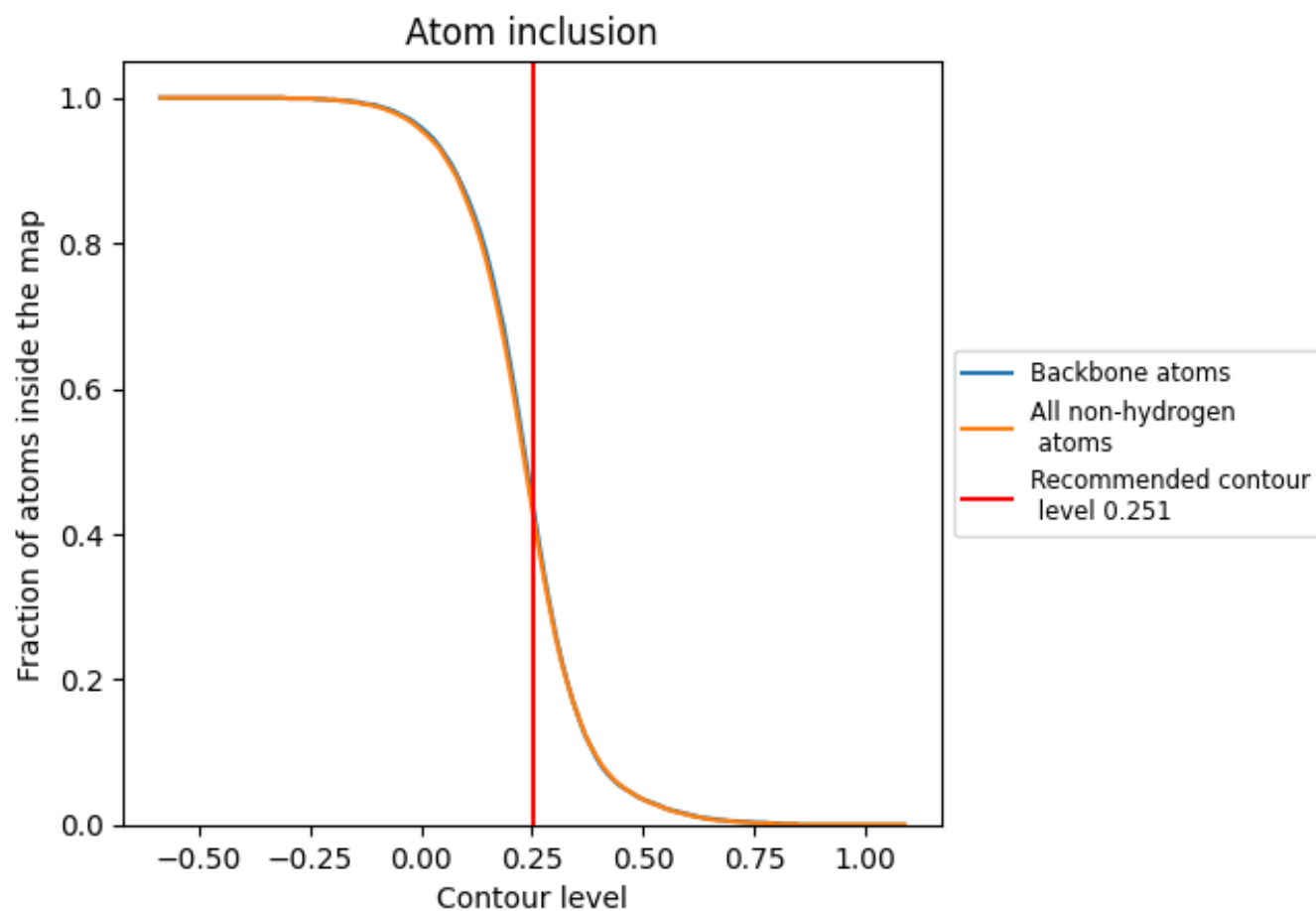
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.251).

9.4 Atom inclusion [i](#)



At the recommended contour level, 44% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.251) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4320	 0.0700
Aa	 0.3530	 0.0710
Ab	 0.4880	 0.0780
Ac	 0.5080	 0.0810
Ad	 0.5080	 0.0800
Ae	 0.3540	 0.0730
Af	 0.4870	 0.0790
Ag	 0.4850	 0.0780
Ah	 0.5100	 0.0790
Ai	 0.3570	 0.0730
Ba	 0.3650	 0.0680
Bb	 0.4390	 0.0620
Bc	 0.4470	 0.0730
Bd	 0.4450	 0.0630
Be	 0.4460	 0.0720
Bf	 0.3670	 0.0720
Bg	 0.4410	 0.0720
Bh	 0.3650	 0.0720
Bi	 0.4430	 0.0630
Ca	 0.4360	 0.0640
Cb	 0.4730	 0.0610
Cc	 0.4080	 0.0580
Cd	 0.4070	 0.0570
Ce	 0.4350	 0.0650
Cf	 0.4790	 0.0660
Cg	 0.4750	 0.0640
Ch	 0.4070	 0.0580
Ci	 0.4320	 0.0630

