Full wwPDB EM Validation Report ⓘ

Feb 19, 2026 – 11:00 AM EST

PDB ID	:	9YH1 / pdb_00009yh1
EMDB ID	:	EMD-72948
Title	:	Structure of flagellin FlaB filament in H. pylori
Authors	:	Kumar, R.; Yu, H.; Tachiyama, S.; Liu, J.
Deposited on	:	2025-09-29
Resolution	:	3.22 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:

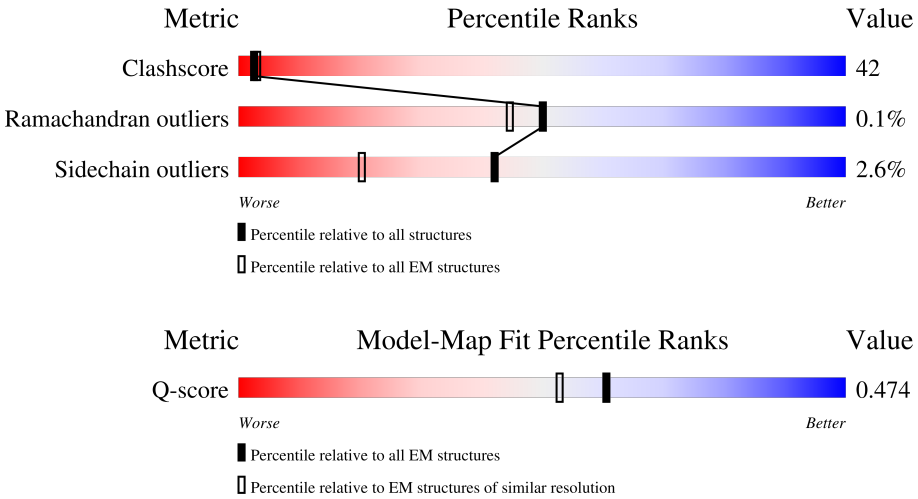
EMDB validation analysis	:	0.0.1.dev131
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive 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)	:	2.48

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.22 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	14612 (2.72 - 3.72)

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

Mol	Chain	Length	Quality of chain
1	A1	513	52% 46%
1	A2	513	51% 47%
1	A3	513	48% 50%
1	A4	513	53% 46%

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Mol	Chain	Length	Quality of chain
1	A5	513	50% 49%
1	A6	513	51% 48%
1	A7	513	47% 52%
1	A8	513	50% 48%
1	A9	513	51% 48%
1	AA	513	51% 47%
1	AB	513	49% 50%
1	AC	513	47% 51%
1	AD	513	48% 49%
1	AE	513	47% 51%
1	AF	513	51% 48%
1	AG	513	47% 51%
1	AH	513	47% 50%
1	AI	513	48% 51%
1	AJ	513	47% 51%
1	AK	513	48% 50%
1	AL	513	48% 50%
1	AM	513	51% 47%
1	AN	513	48% 50%
1	AO	513	47% 51%
1	AP	513	47% 51%
1	AQ	513	51% 47%
1	AR	513	47% 51%
1	AS	513	49% 50%
1	AT	513	48% 51%

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Mol	Chain	Length	Quality of chain
1	AU	513	
1	AV	513	
1	AW	513	
1	AX	513	

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
2	P8E	A1	604	X	-	-	-
2	P8E	A2	604	X	-	-	-
2	P8E	A3	604	X	-	-	-
2	P8E	A4	604	X	-	-	-
2	P8E	A5	604	X	-	-	-
2	P8E	A6	604	X	-	-	-
2	P8E	A7	604	X	-	-	-
2	P8E	A8	604	X	-	-	-
2	P8E	A9	604	X	-	-	-
2	P8E	AA	604	X	-	-	-
2	P8E	AB	604	X	-	-	-
2	P8E	AC	604	X	-	-	-
2	P8E	AD	604	X	-	-	-
2	P8E	AE	604	X	-	-	-
2	P8E	AF	604	X	-	-	-
2	P8E	AG	604	X	-	-	-
2	P8E	AH	604	X	-	-	-
2	P8E	AI	604	X	-	-	-
2	P8E	AJ	604	X	-	-	-
2	P8E	AK	604	X	-	-	-
2	P8E	AL	604	X	-	-	-
2	P8E	AM	604	X	-	-	-
2	P8E	AN	604	X	-	-	-
2	P8E	AO	604	X	-	-	-
2	P8E	AP	604	X	-	-	-
2	P8E	AQ	604	X	-	-	-
2	P8E	AR	604	X	-	-	-
2	P8E	AS	604	X	-	-	-
2	P8E	AT	604	X	-	-	-
2	P8E	AU	604	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	P8E	AV	604	X	-	-	-
2	P8E	AW	604	X	-	-	-
2	P8E	AX	604	X	-	-	-

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 133980 atoms, of which 4752 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 Flagellin.

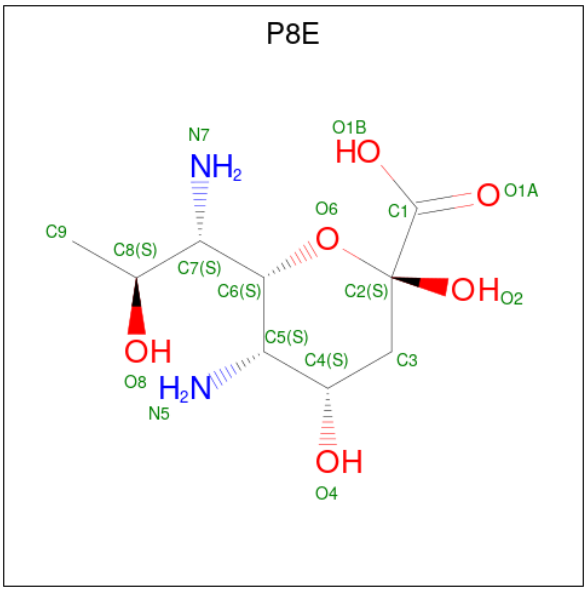
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A1	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A2	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A3	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A4	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A5	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A6	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A7	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A8	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	A9	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AA	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AB	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AC	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AD	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AE	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AF	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AG	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AH	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AI	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AJ	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AK	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AL	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AM	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AN	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AO	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AP	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AQ	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AR	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AS	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AT	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AU	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AV	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AW	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		
1	AX	513	Total	C	N	O	S	0	0
			3772	2289	695	775	13		

- Molecule 2 is 5,7-diamino-3,5,7,9-tetradeoxy-L-glycero-alpha-L-manno-non-2-ulopyranosonic acid (CCD ID: P8E) (formula: $C_9H_{18}N_2O_6$).



Mol	Chain	Residues	Atoms					AltConf
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A1	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A2	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A3	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	A4	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A5	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A6	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A7	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A8	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	A9	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AA	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AB	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AC	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AD	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AE	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AF	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AG	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AH	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AI	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
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			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AJ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AK	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AL	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AM	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AN	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AO	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AP	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
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2	AQ	1	Total	C	H	N	O	0
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2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AQ	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AR	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AS	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AT	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	

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Mol	Chain	Residues	Atoms					AltConf
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AU	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AV	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AW	1	Total	C	H	N	O	0
			32	9	16	2	5	

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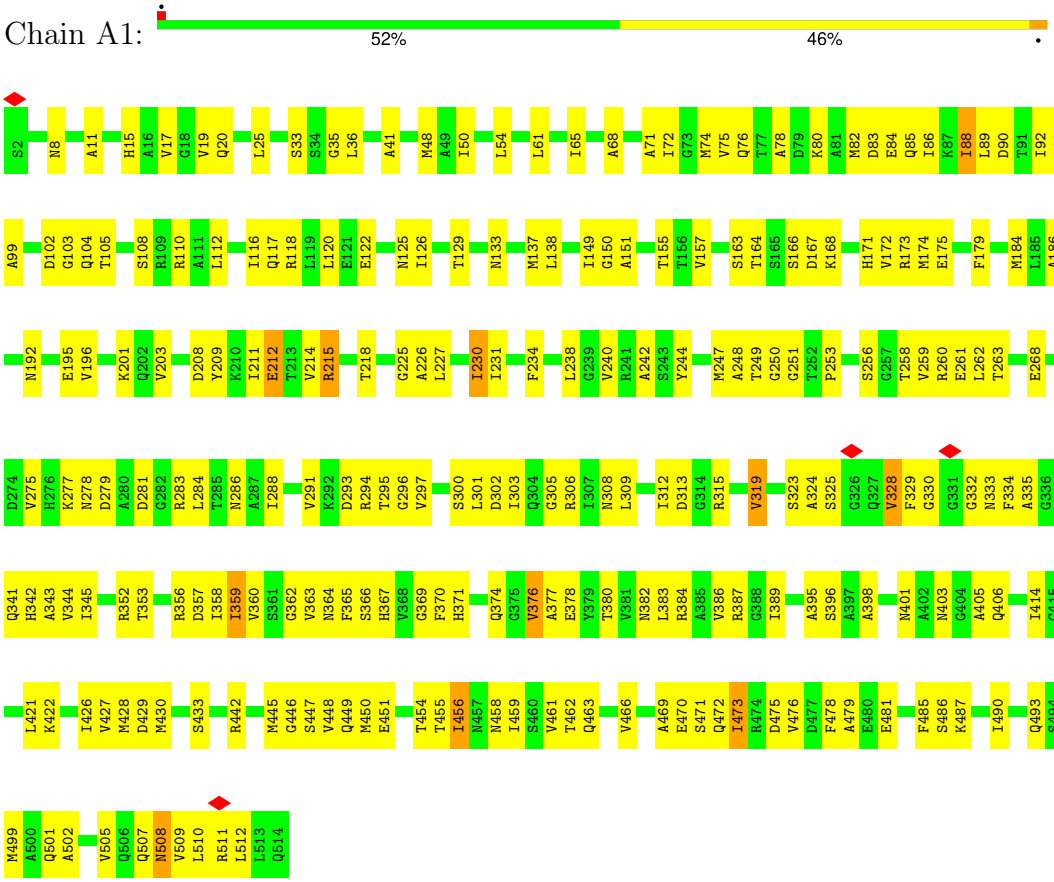
Mol	Chain	Residues	Atoms					AltConf
2	AW	1	Total	C	H	N	O	0
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2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	
2	AX	1	Total	C	H	N	O	0
			32	9	16	2	5	

3 Residue-property plots (i)

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

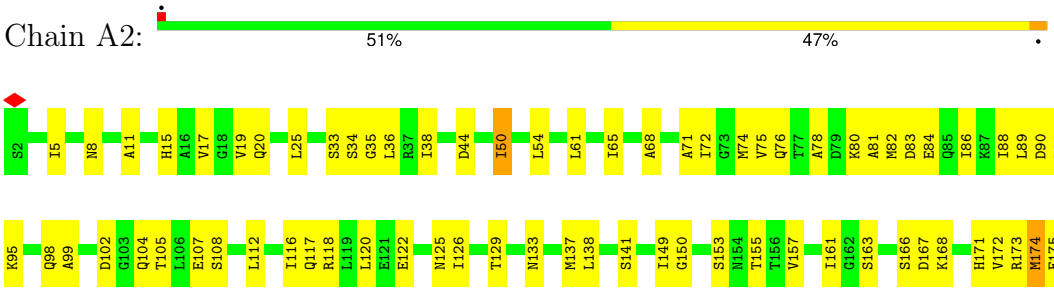
- Molecule 1: Flagellin

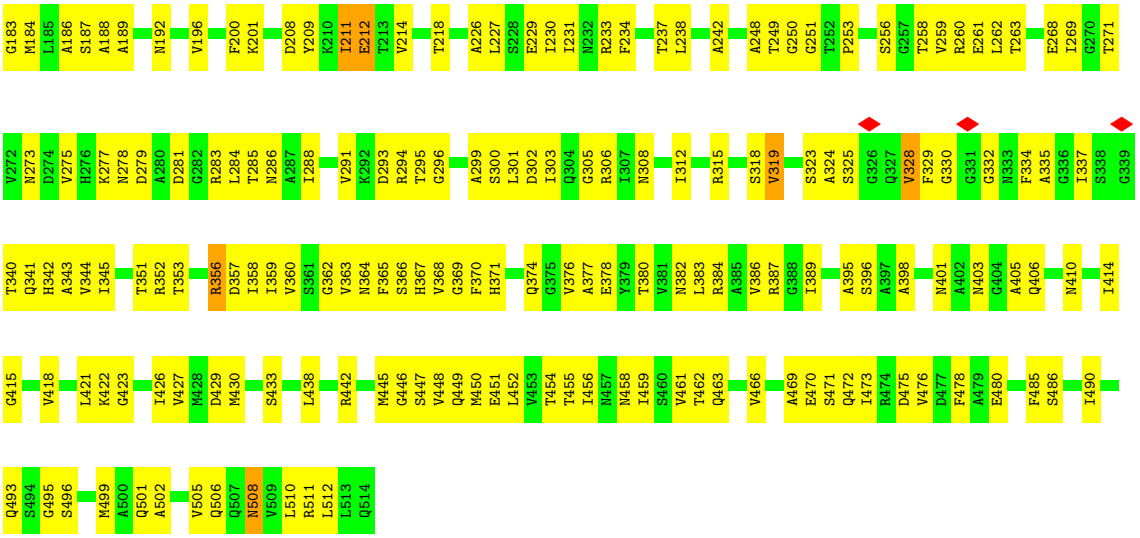
Chain A1:



- Molecule 1: Flagellin

Chain A2:

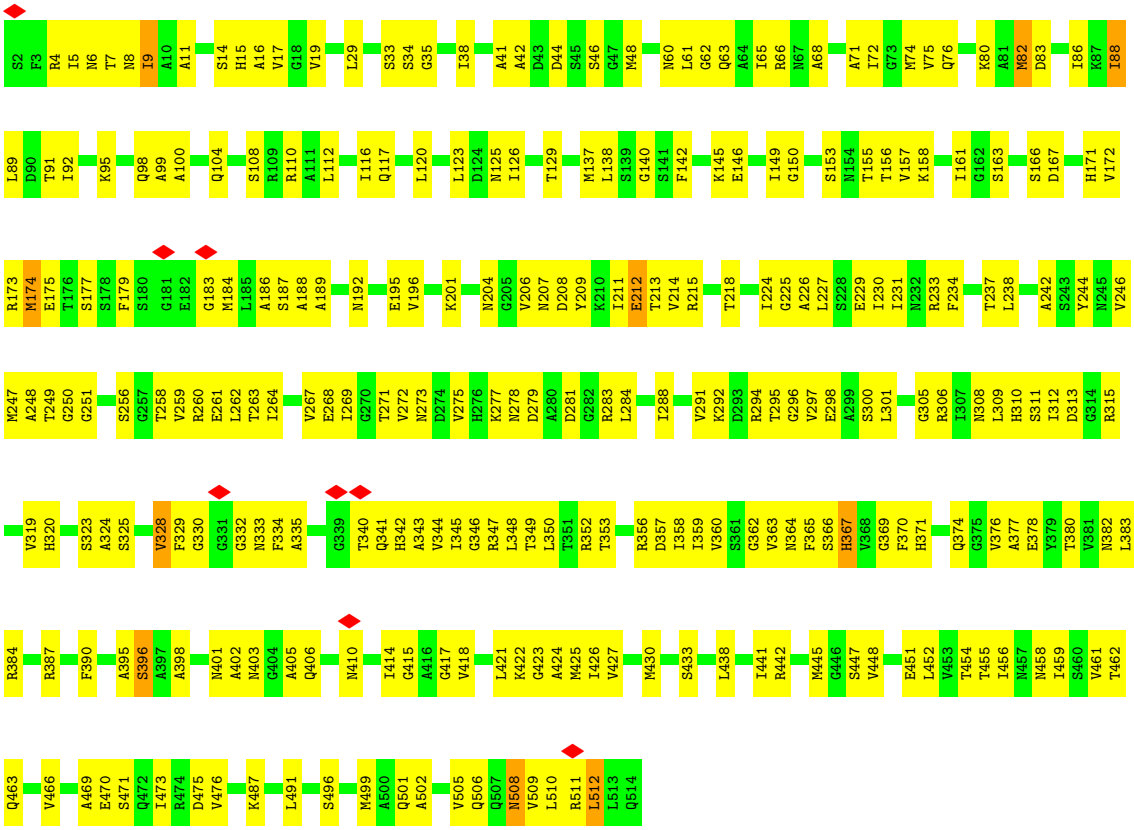




• Molecule 1: Flagellin

Chain A3:

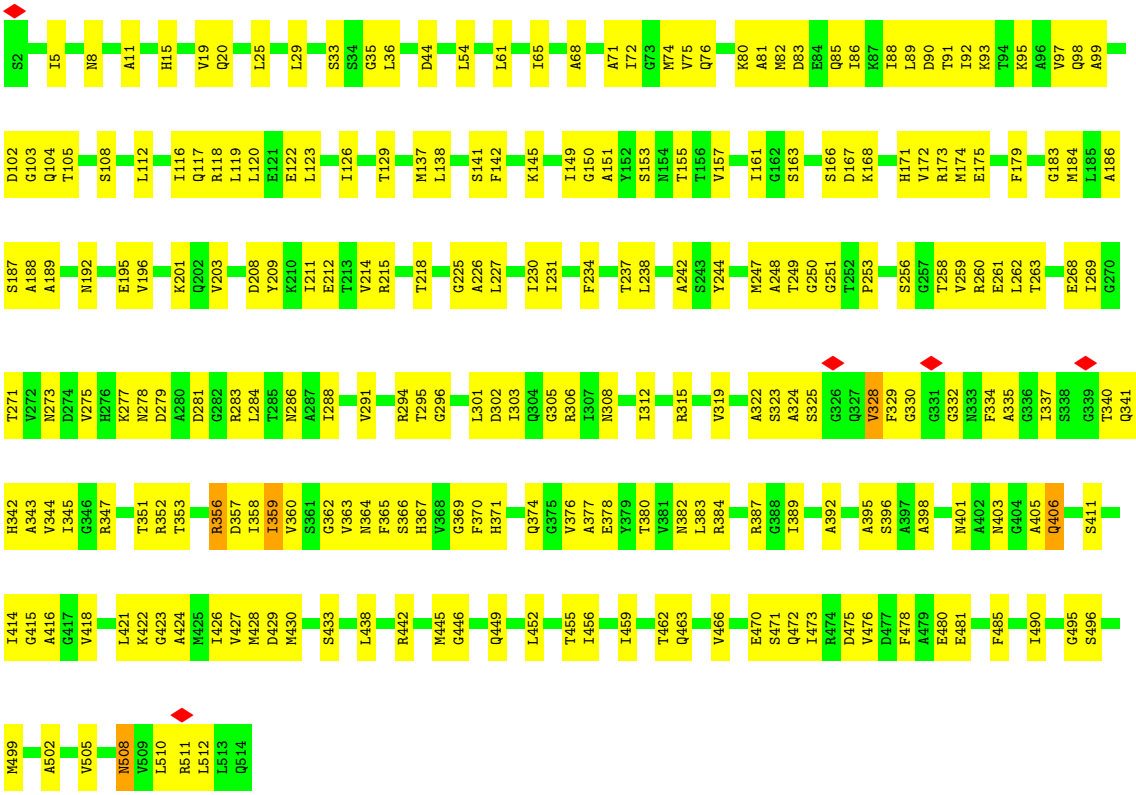




• Molecule 1: Flagellin

Chain A4:

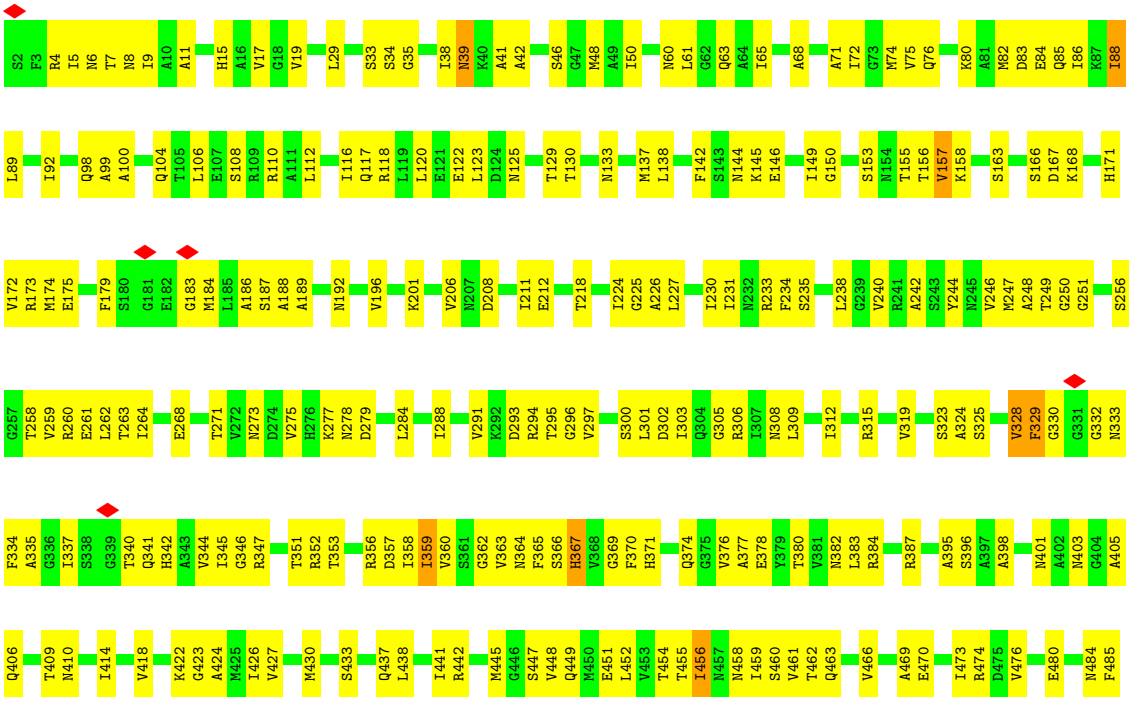


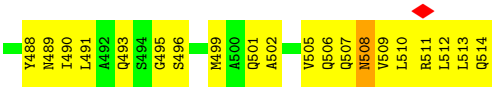


• Molecule 1: Flagellin

Chain A5:



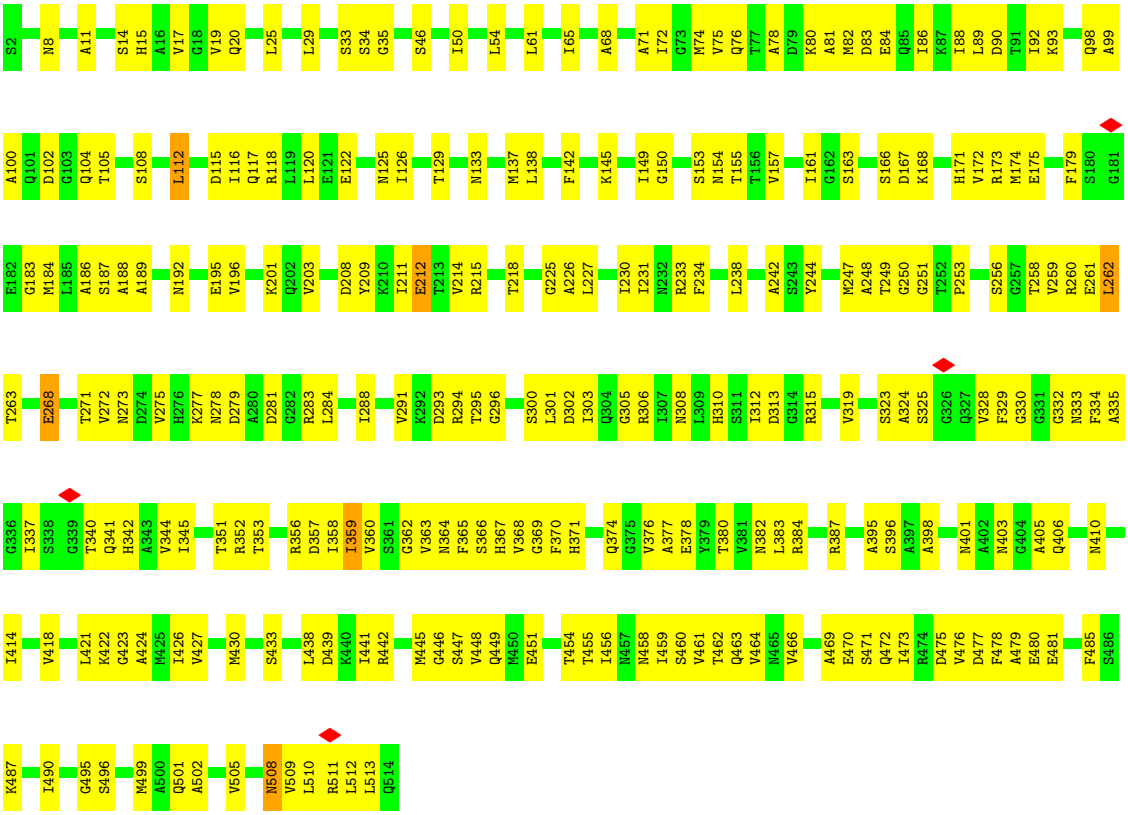




• Molecule 1: Flagellin

Chain A6:

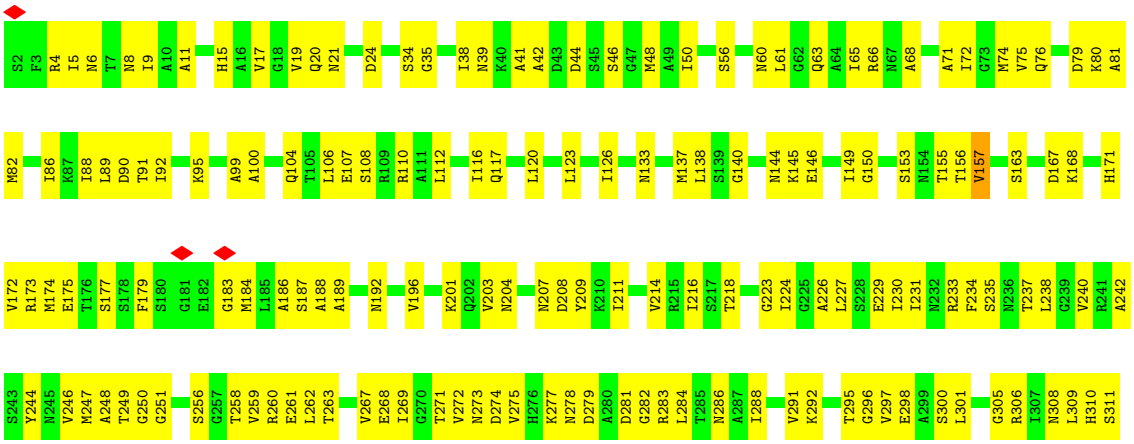


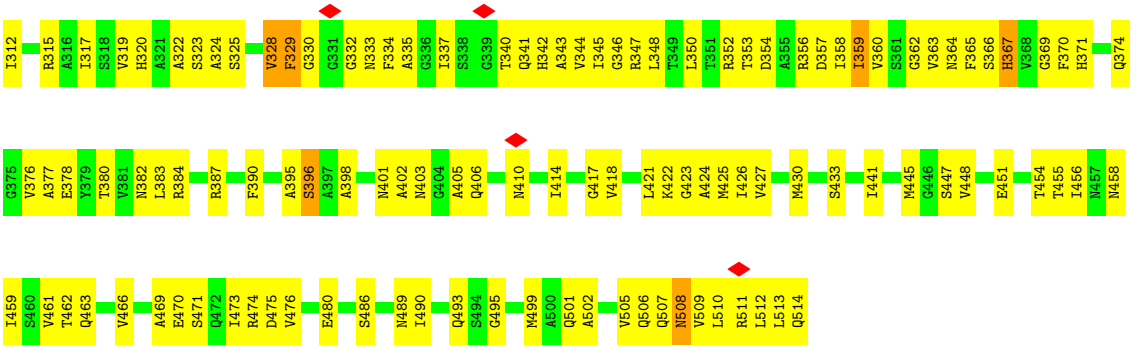


• Molecule 1: Flagellin

Chain A7:



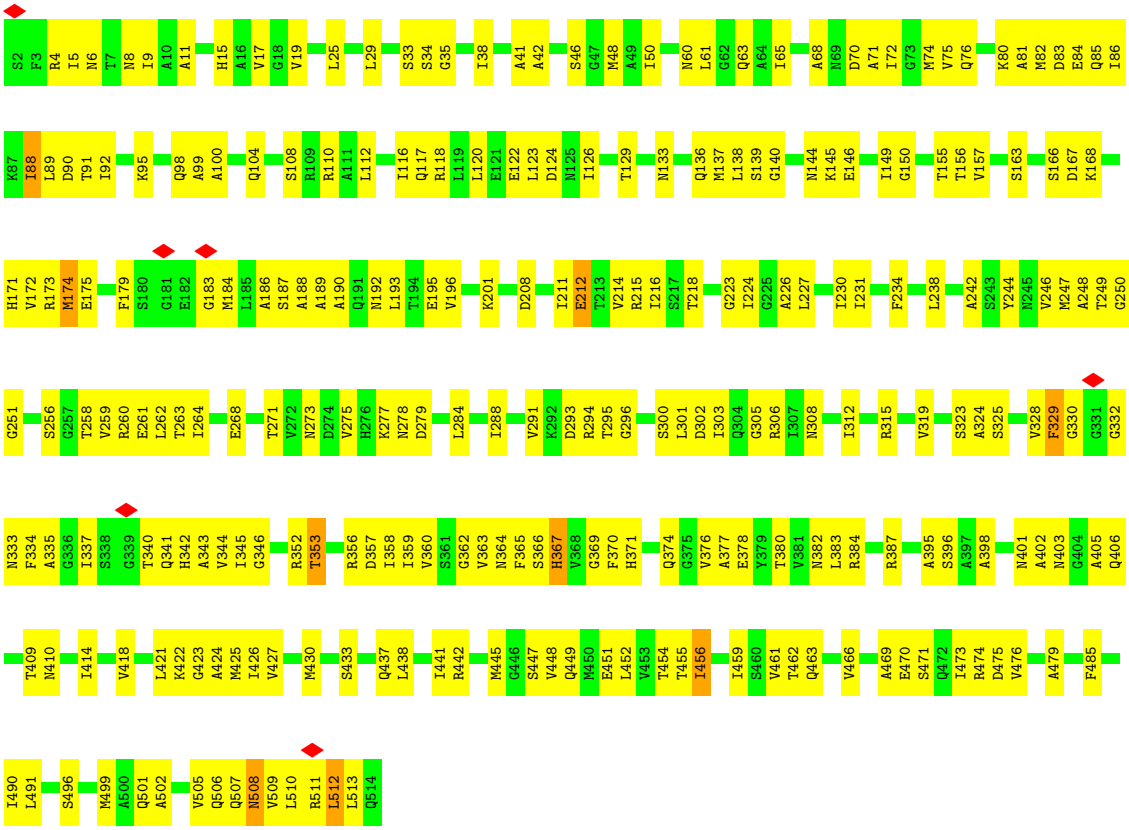




• Molecule 1: Flagellin

Chain A8:

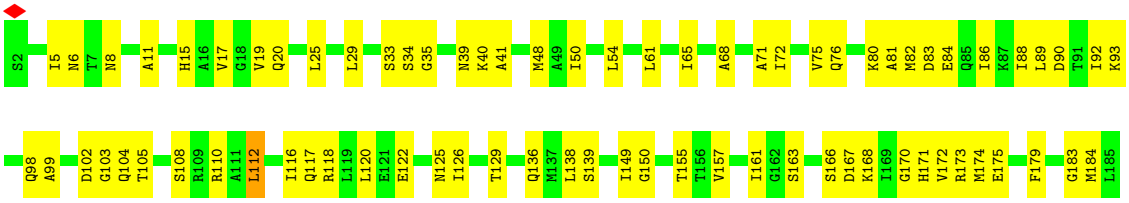


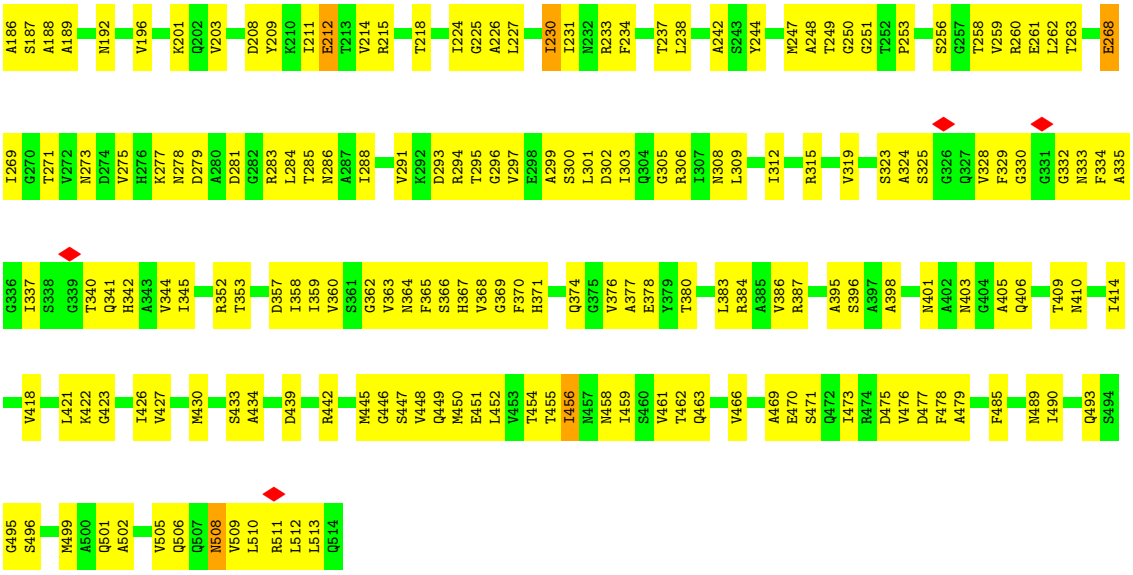


• Molecule 1: Flagellin

Chain A9:



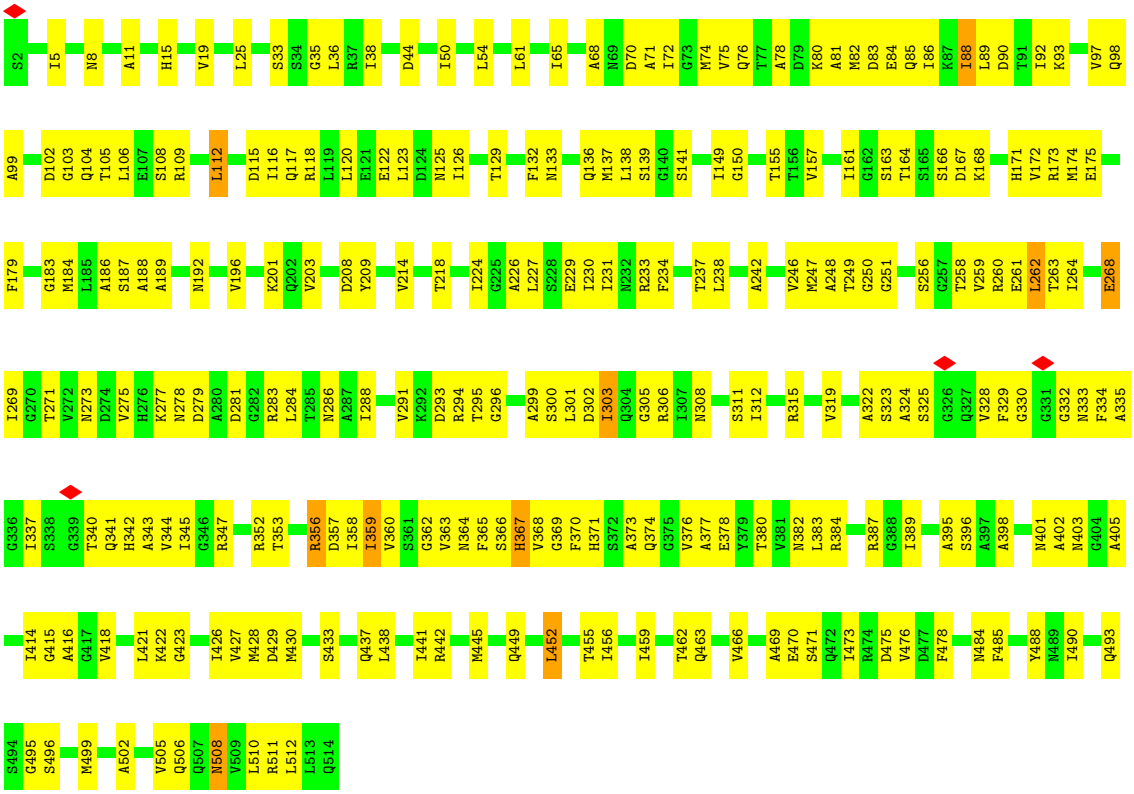




• Molecule 1: Flagellin

Chain AA:

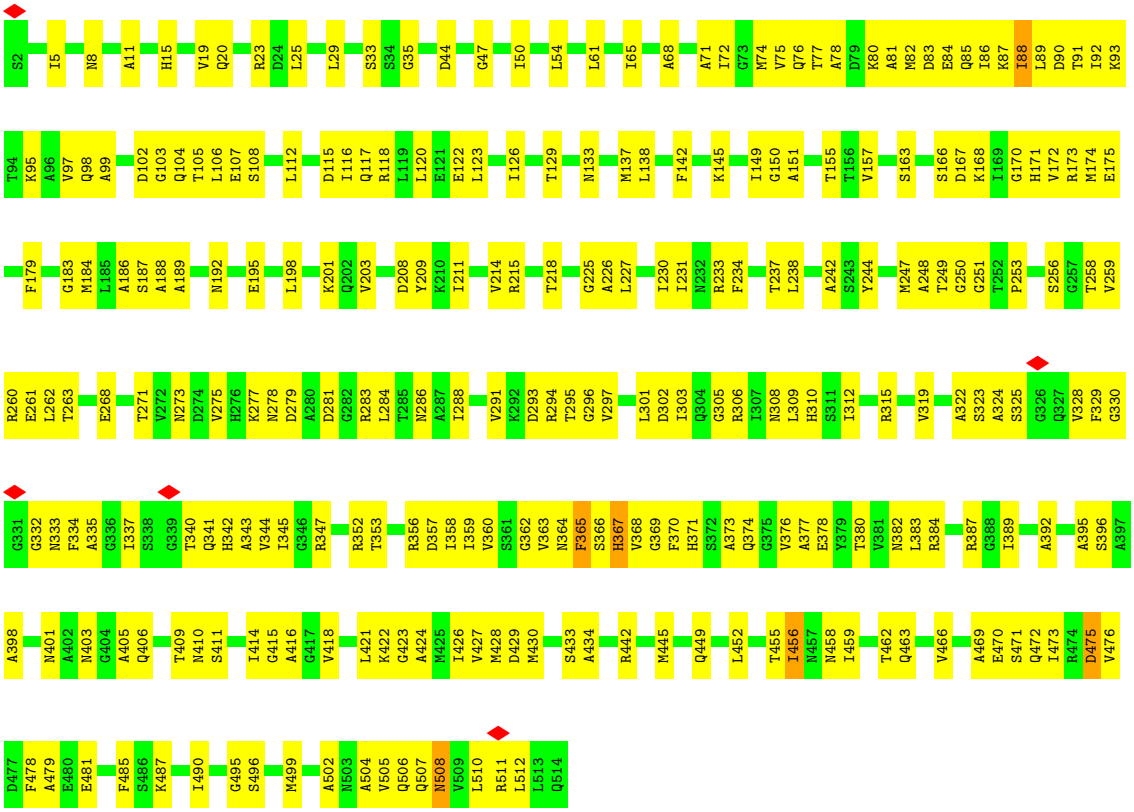




• Molecule 1: Flagellin

Chain AB:

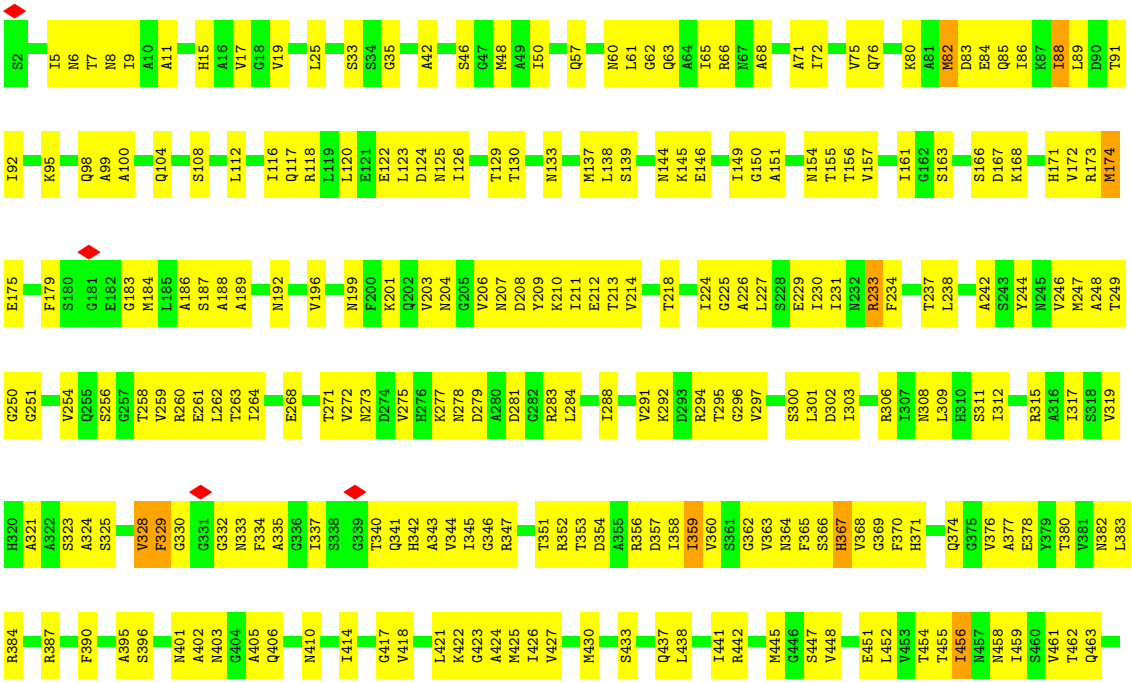


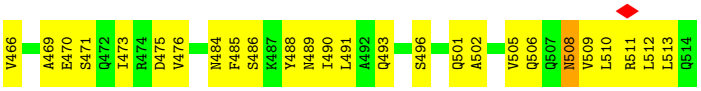


- Molecule 1: Flagellin

Chain AC:



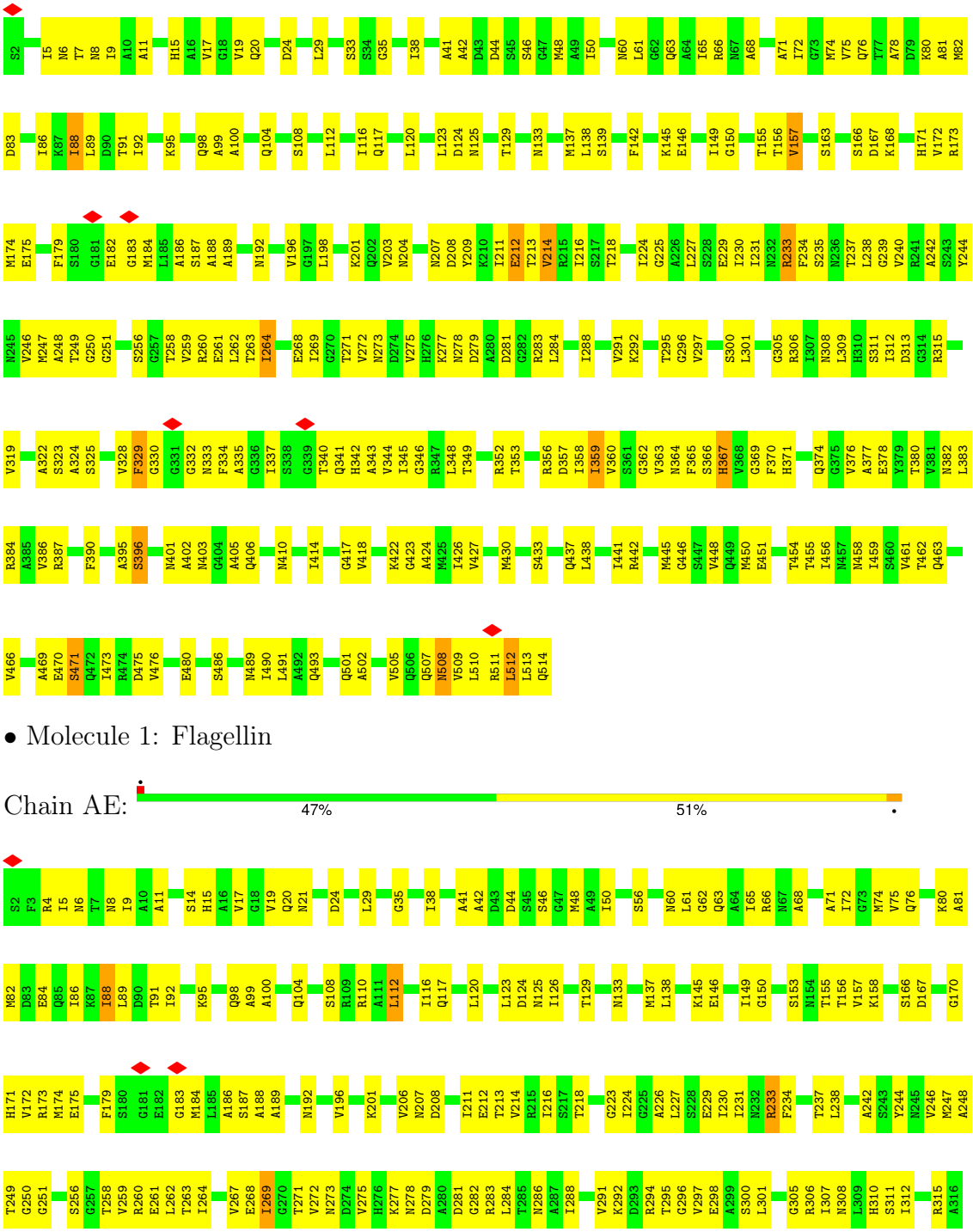




• Molecule 1: Flagellin

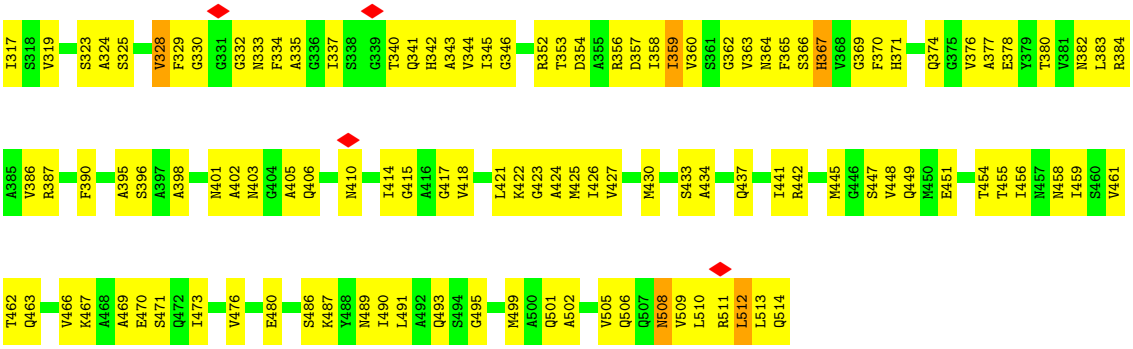
Chain AD:





• Molecule 1: Flagellin

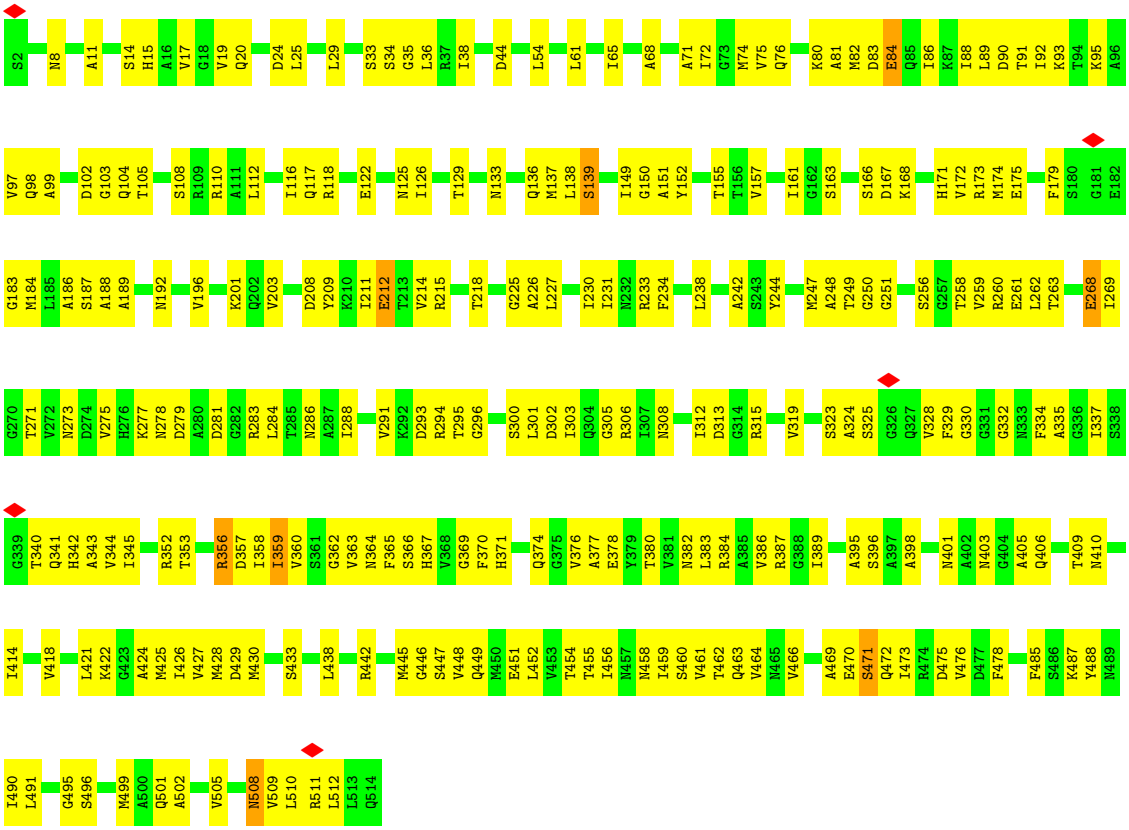
Chain AE:



• Molecule 1: Flagellin

Chain AF:

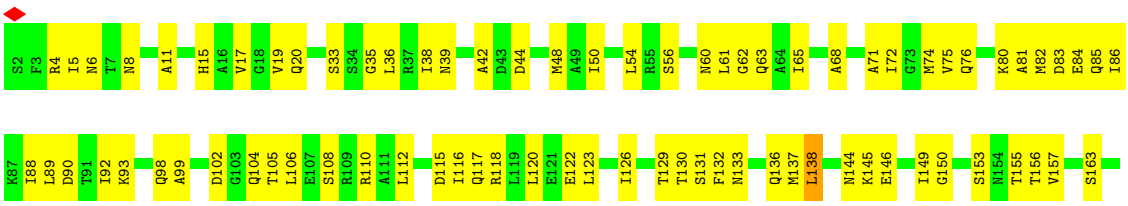


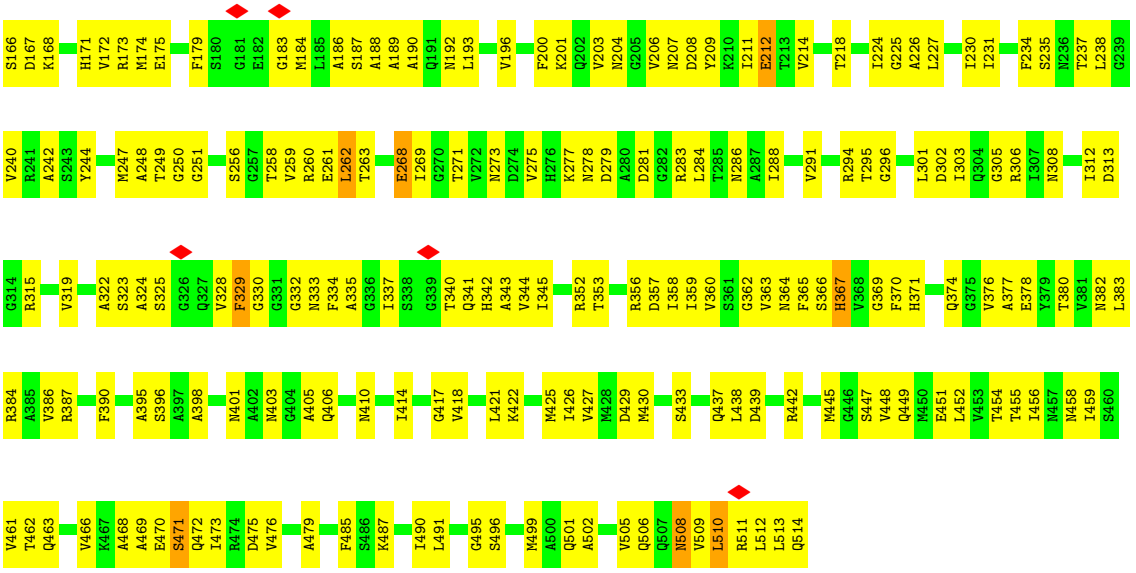


• Molecule 1: Flagellin

Chain AG:



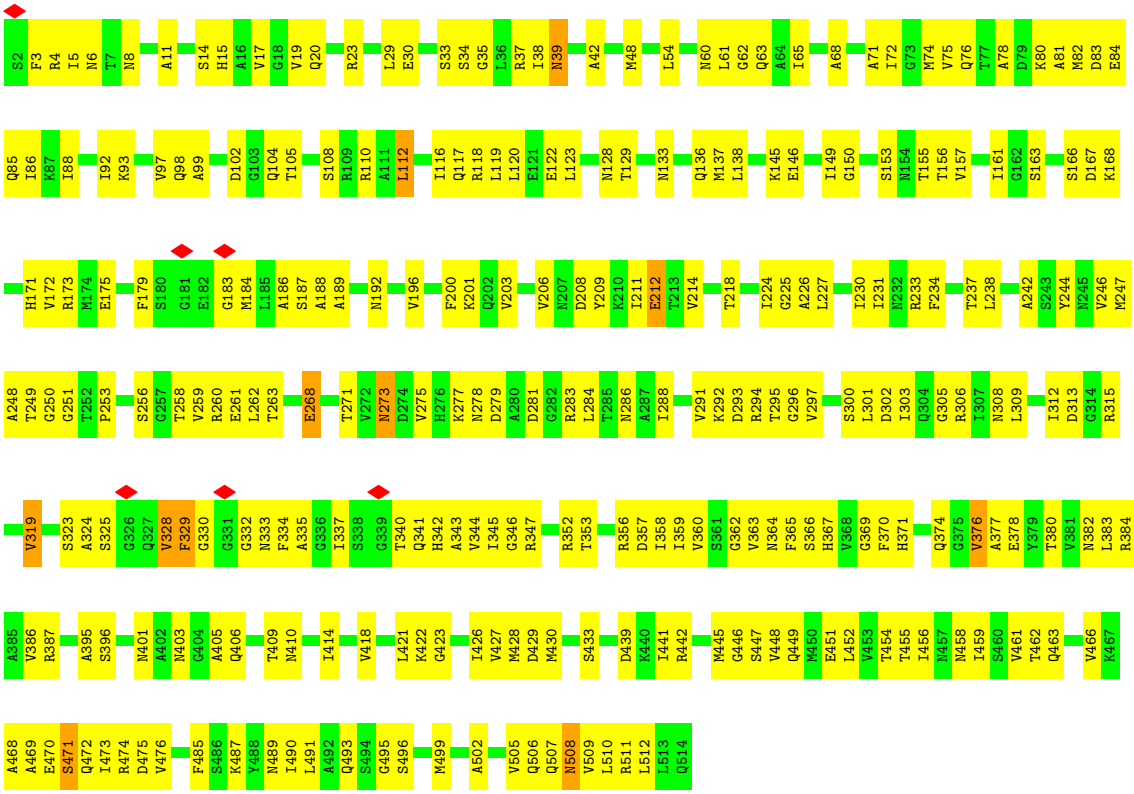




• Molecule 1: Flagellin

Chain AH:

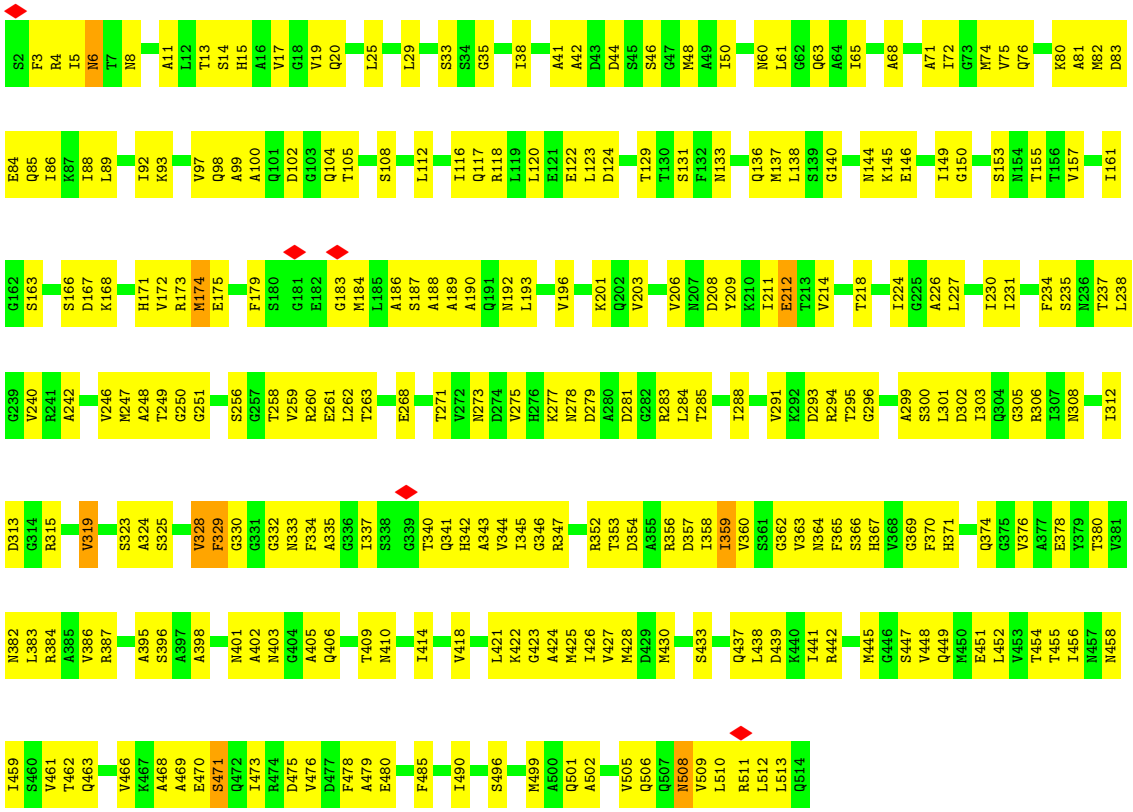




• Molecule 1: Flagellin

Chain AI:

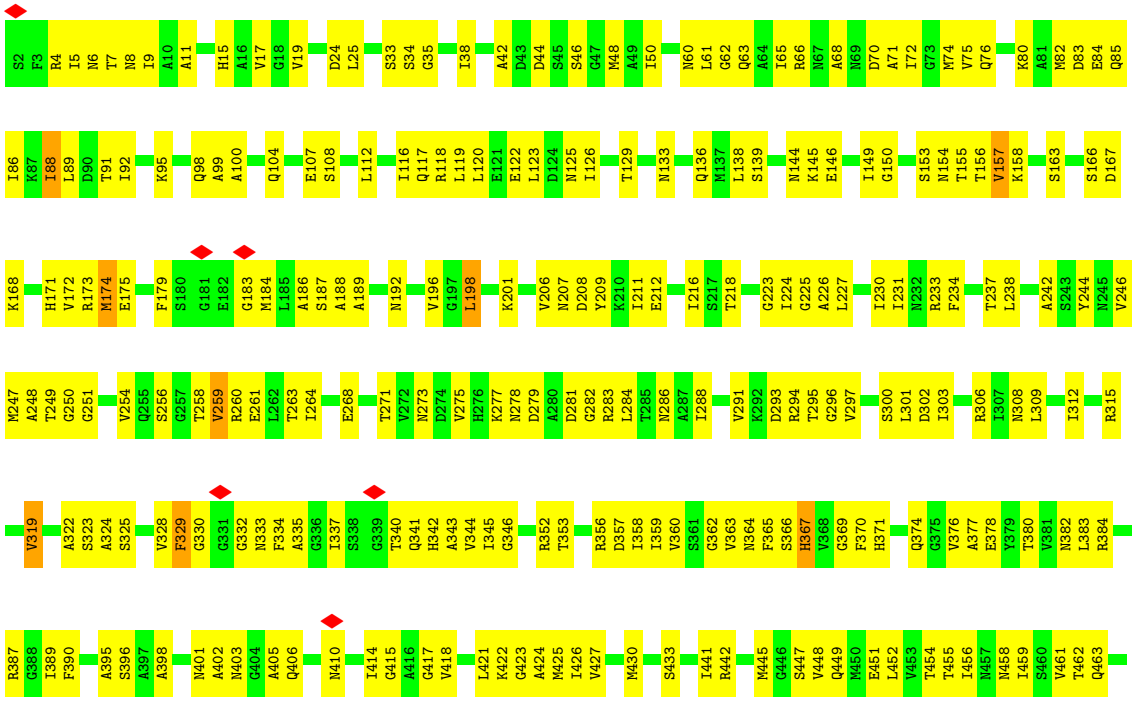


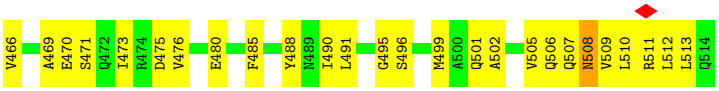


• Molecule 1: Flagellin

Chain AJ:



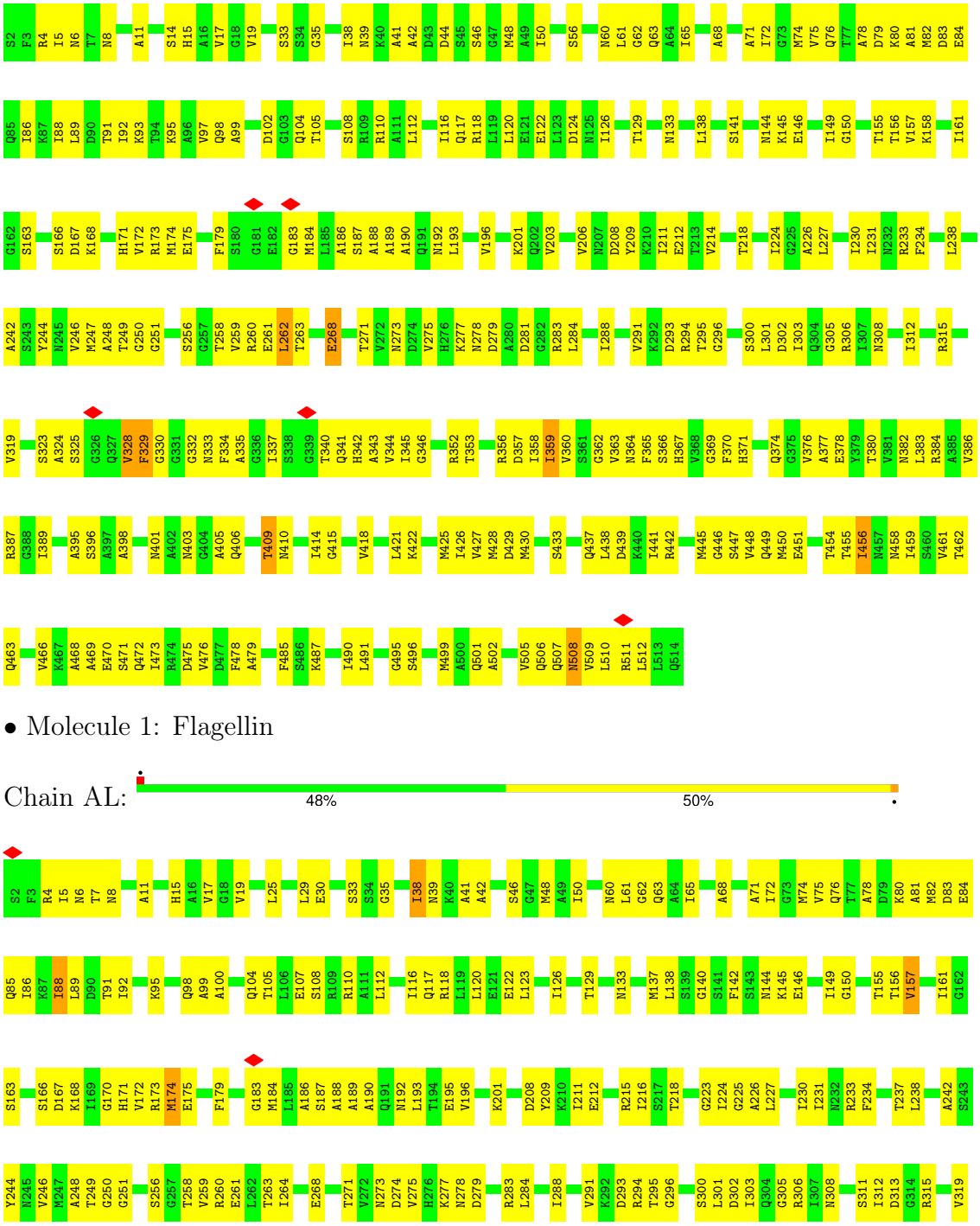




• Molecule 1: Flagellin

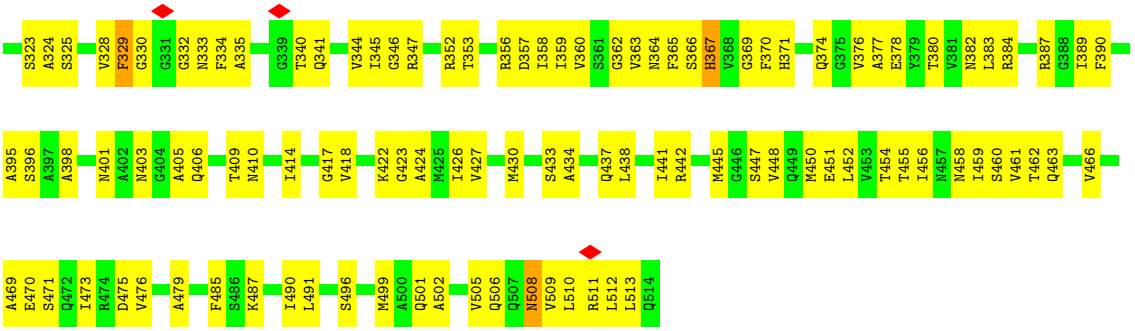
Chain AK:





• Molecule 1: Flagellin

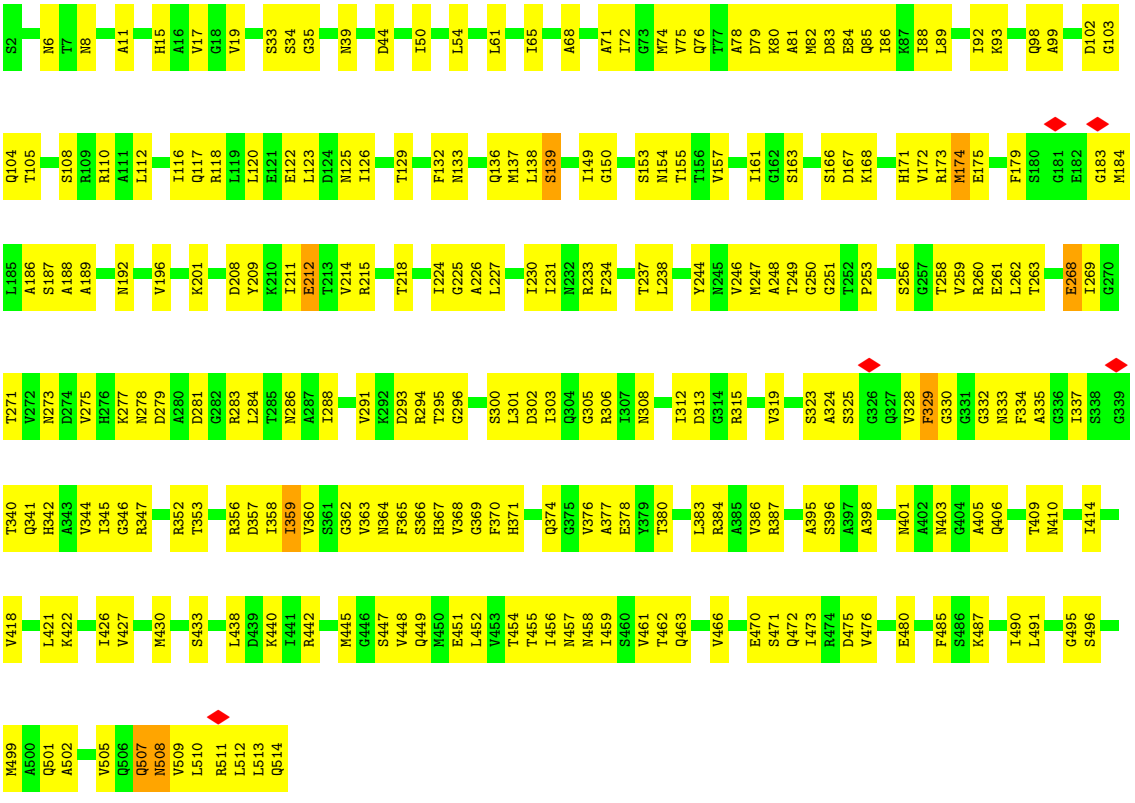
Chain AL:



• Molecule 1: Flagellin

Chain AM:

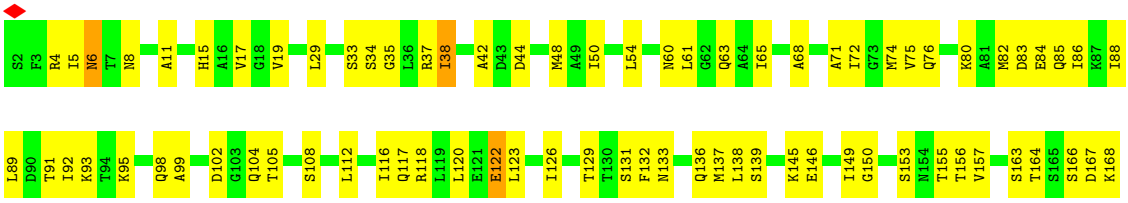


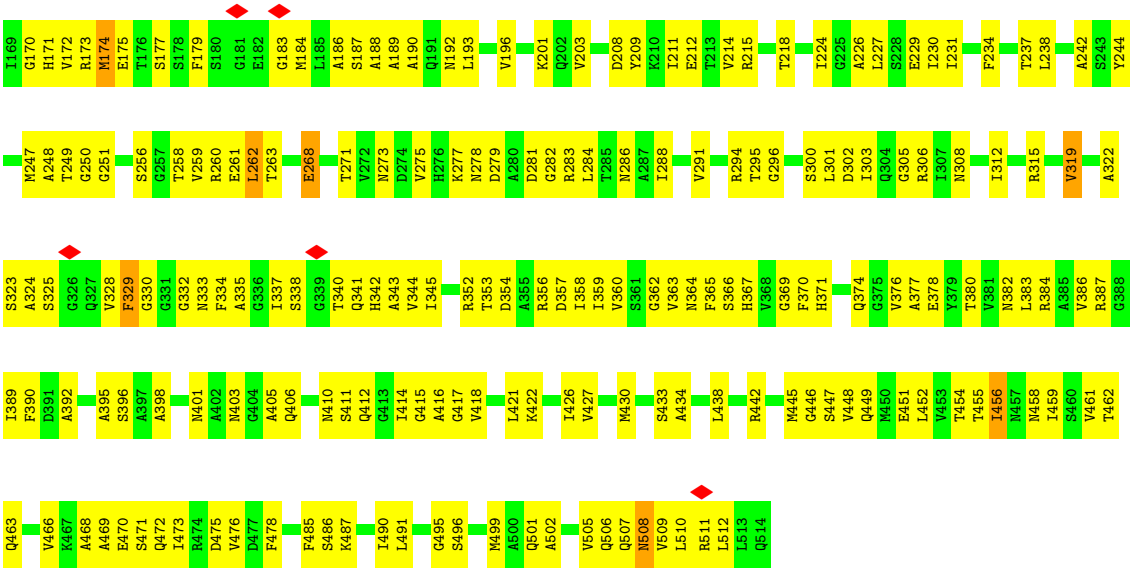


• Molecule 1: Flagellin

Chain AN:



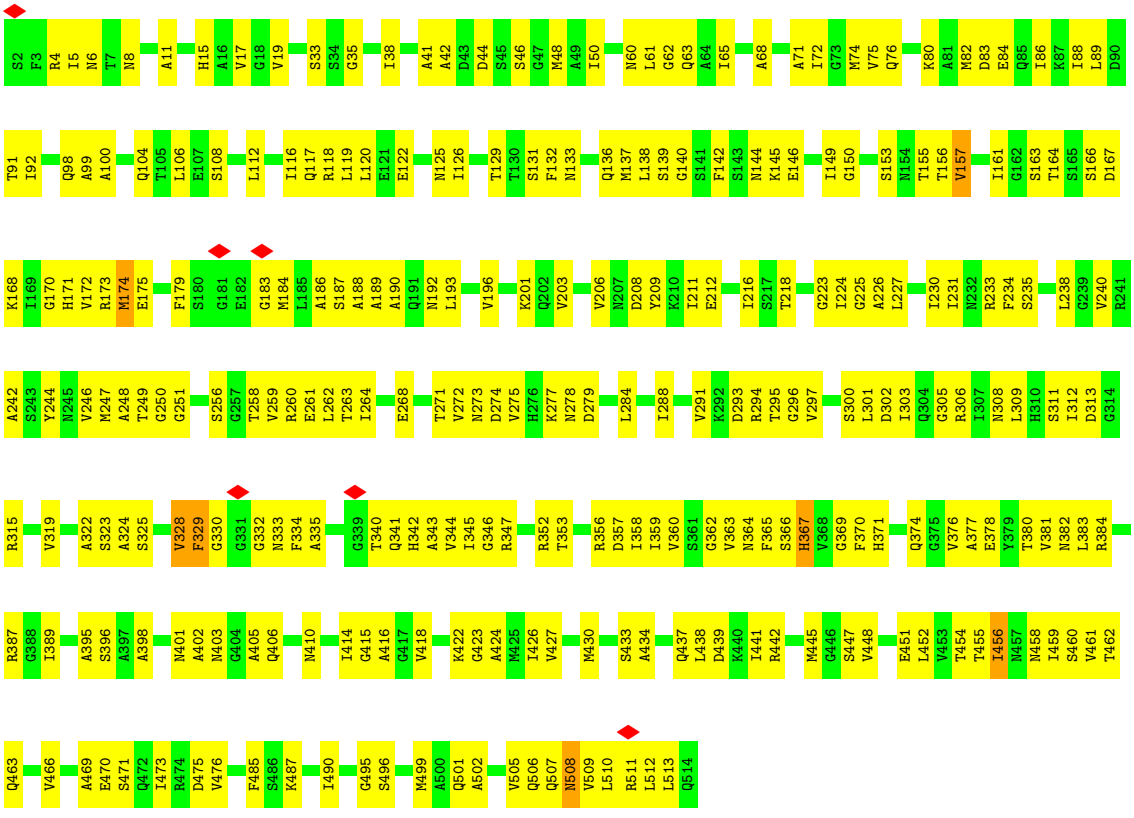




• Molecule 1: Flagellin

Chain AO:

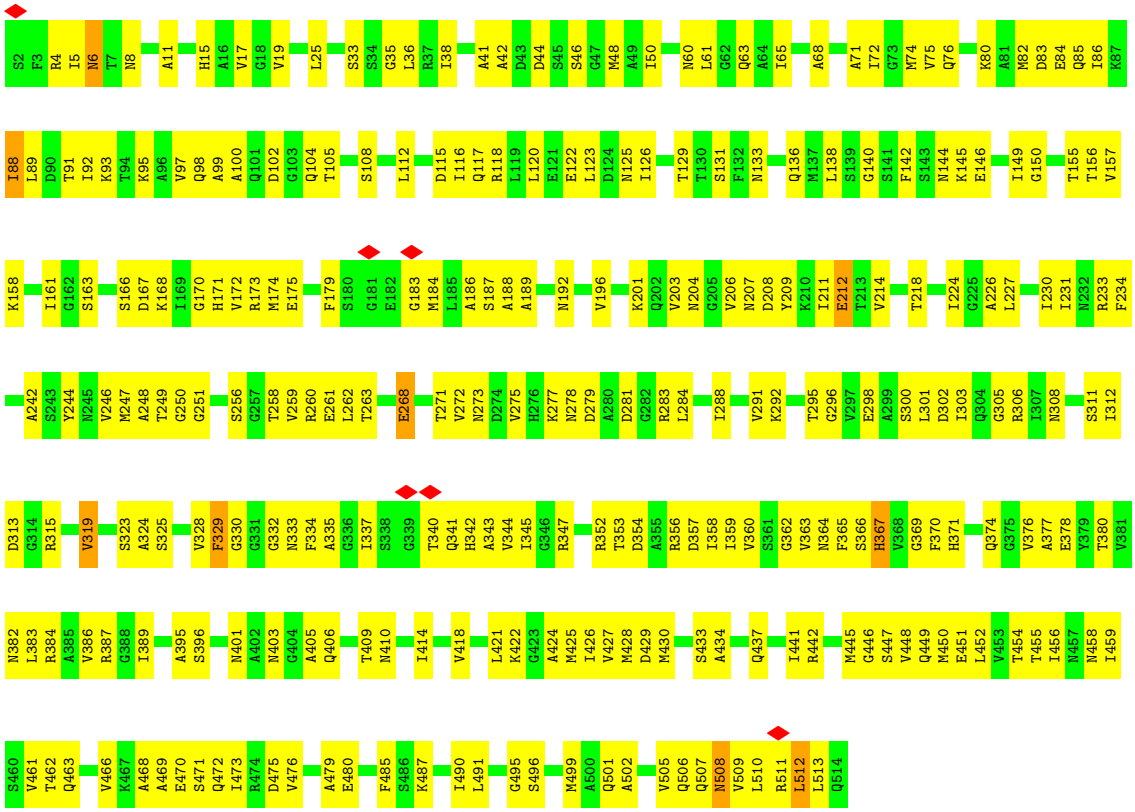




• Molecule 1: Flagellin

Chain AP:

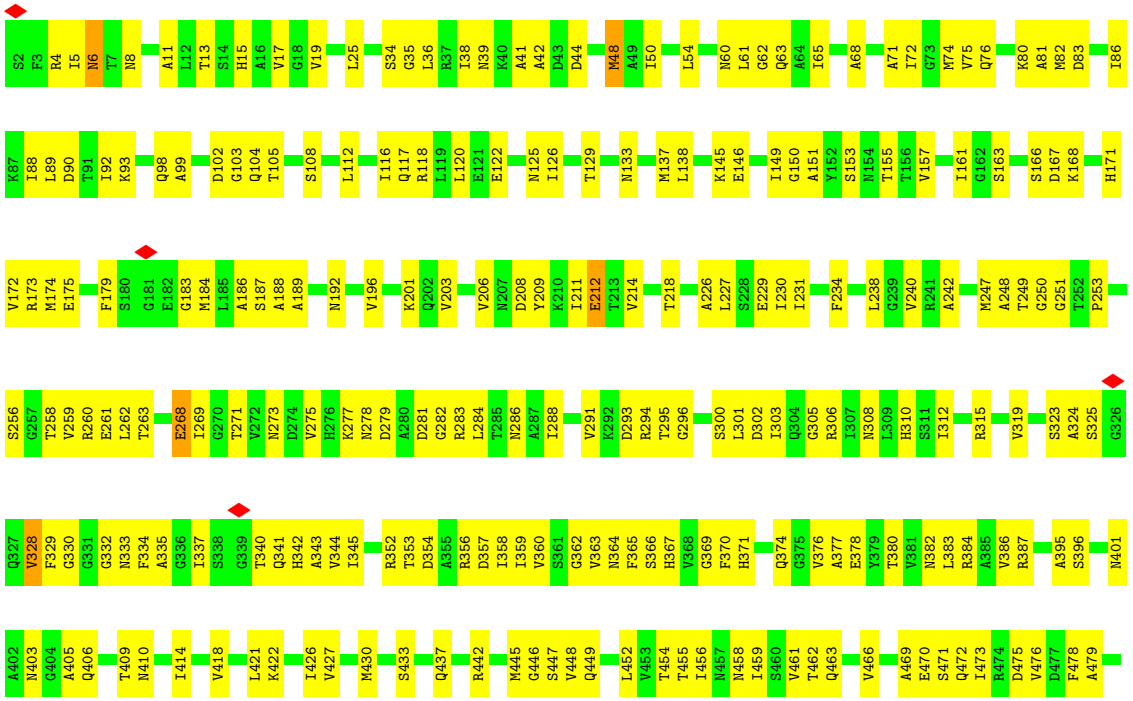




• Molecule 1: Flagellin

Chain AQ:



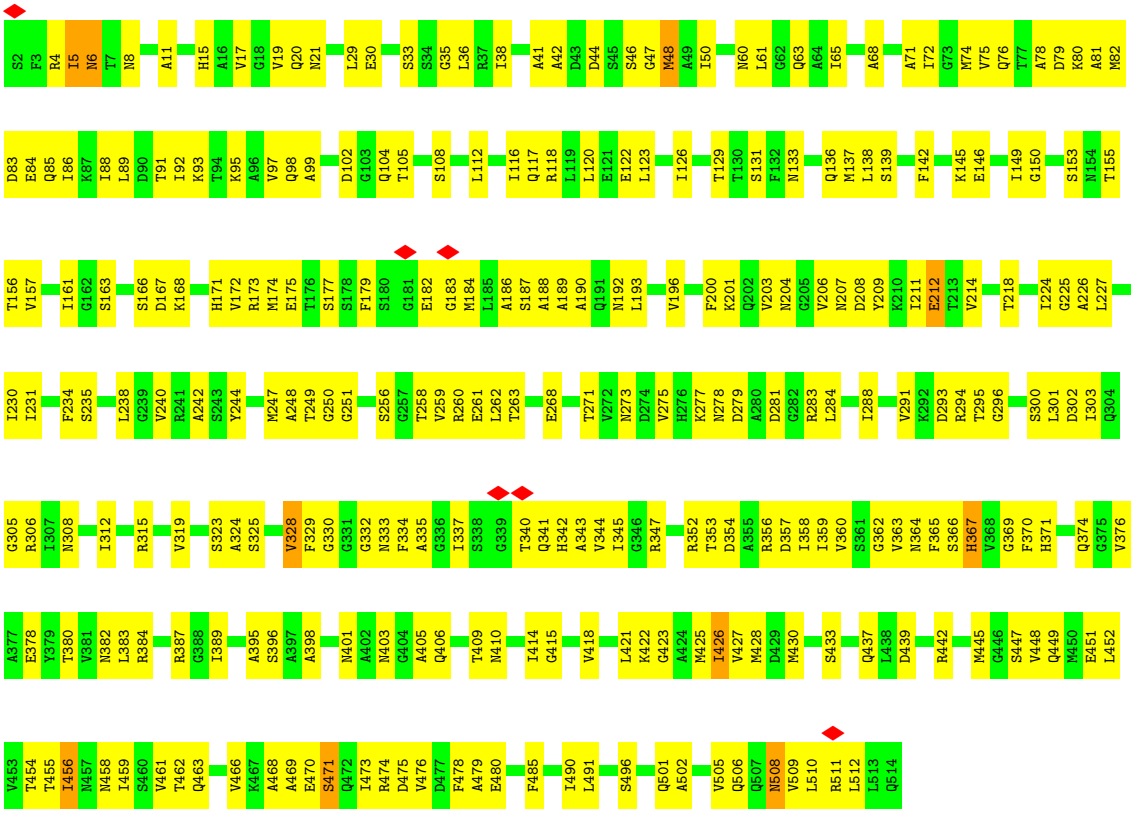




• Molecule 1: Flagellin

Chain AR:

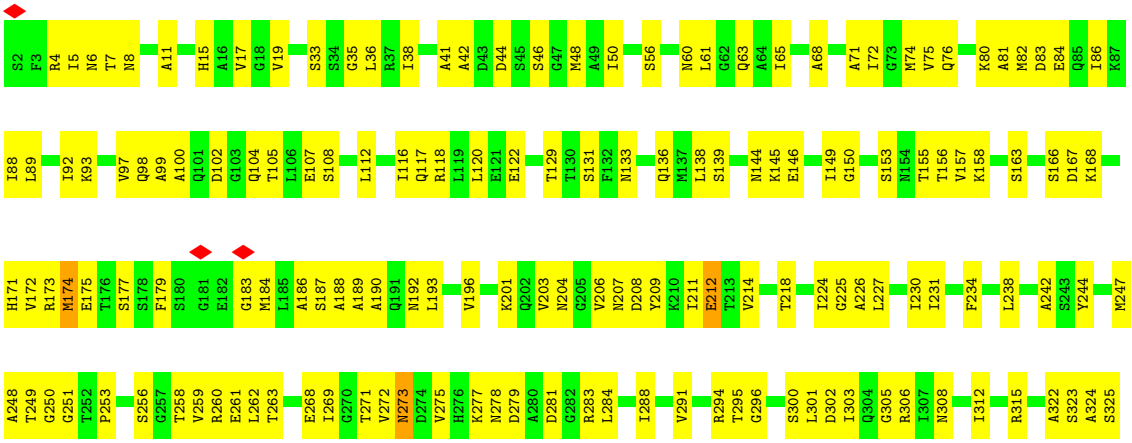


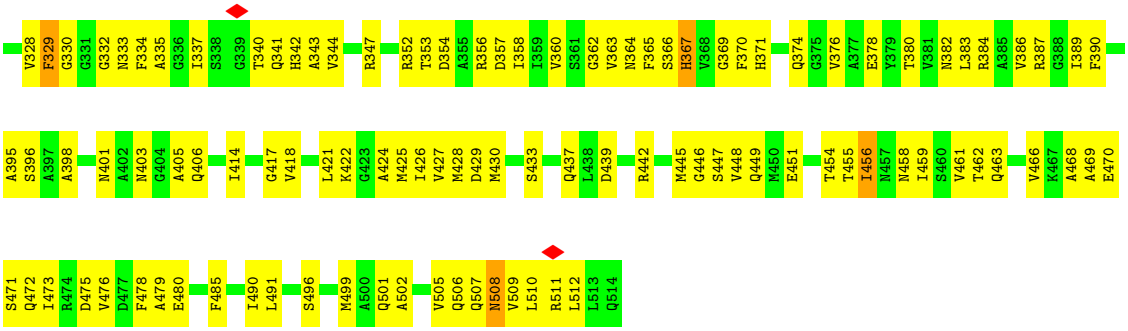


• Molecule 1: Flagellin

Chain AS:



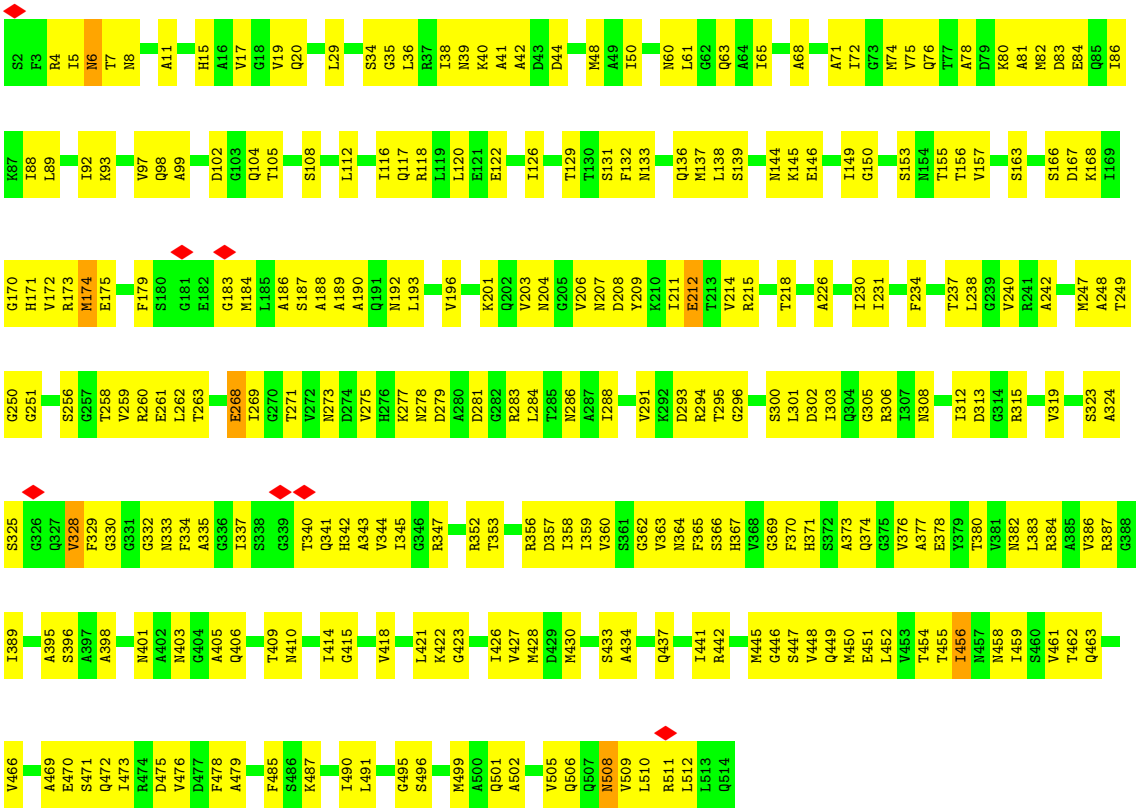




• Molecule 1: Flagellin

Chain AT:

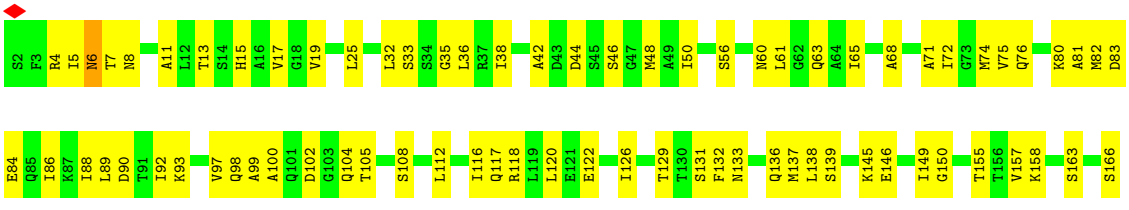


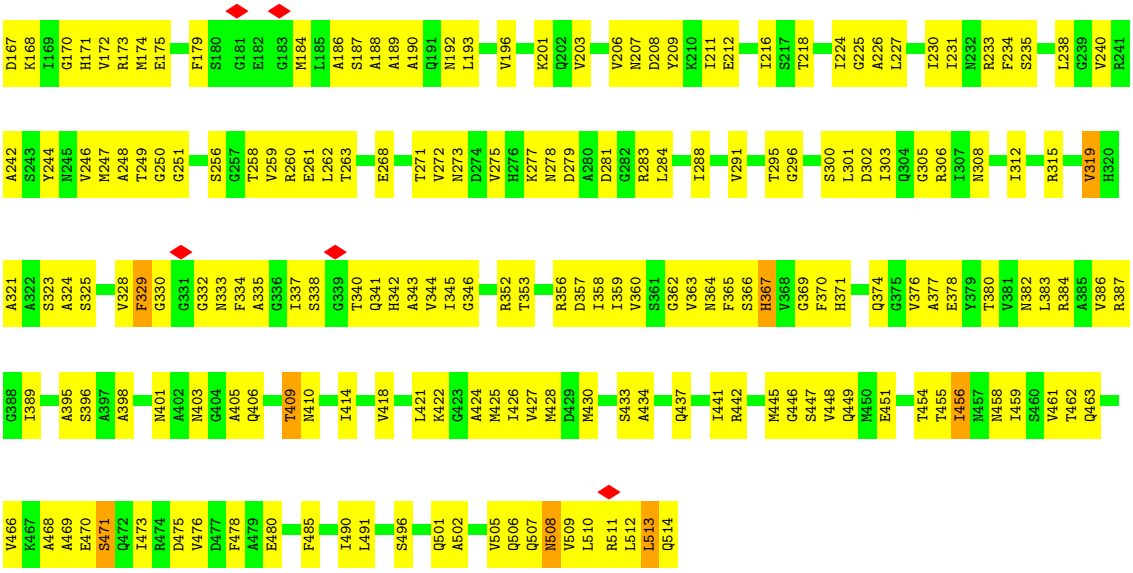


• Molecule 1: Flagellin

Chain AU:



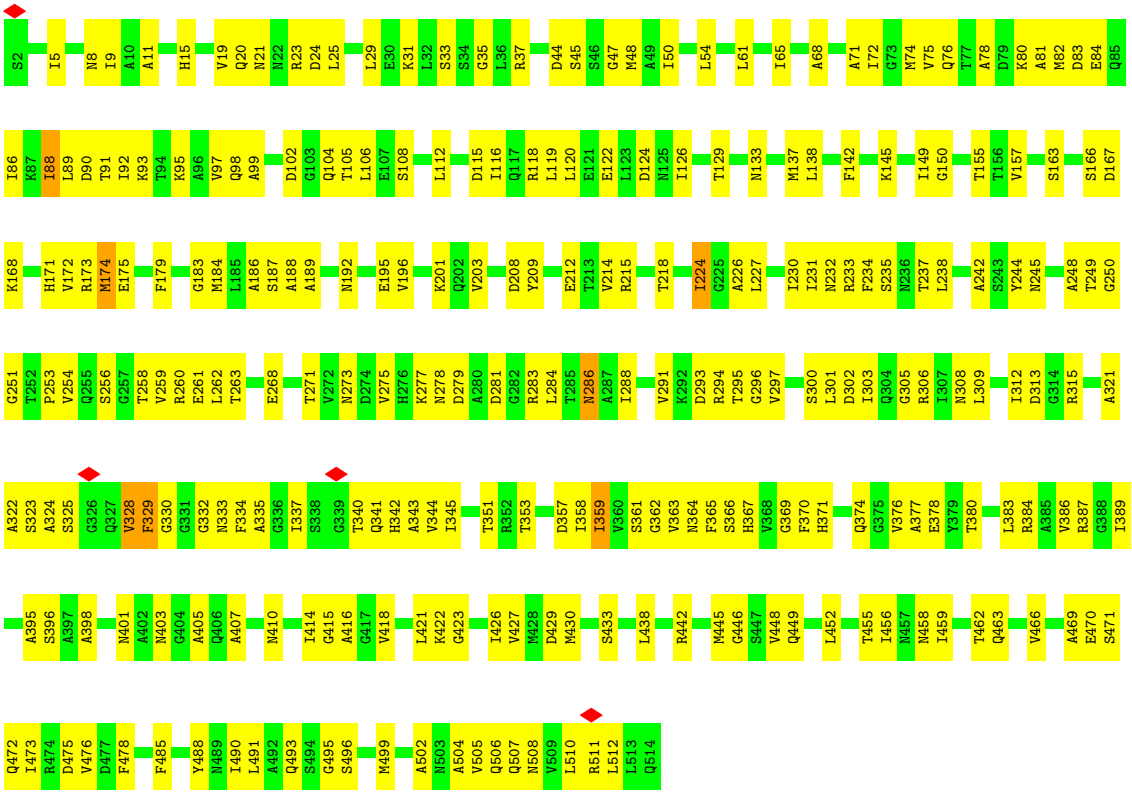




• Molecule 1: Flagellin

Chain AV:

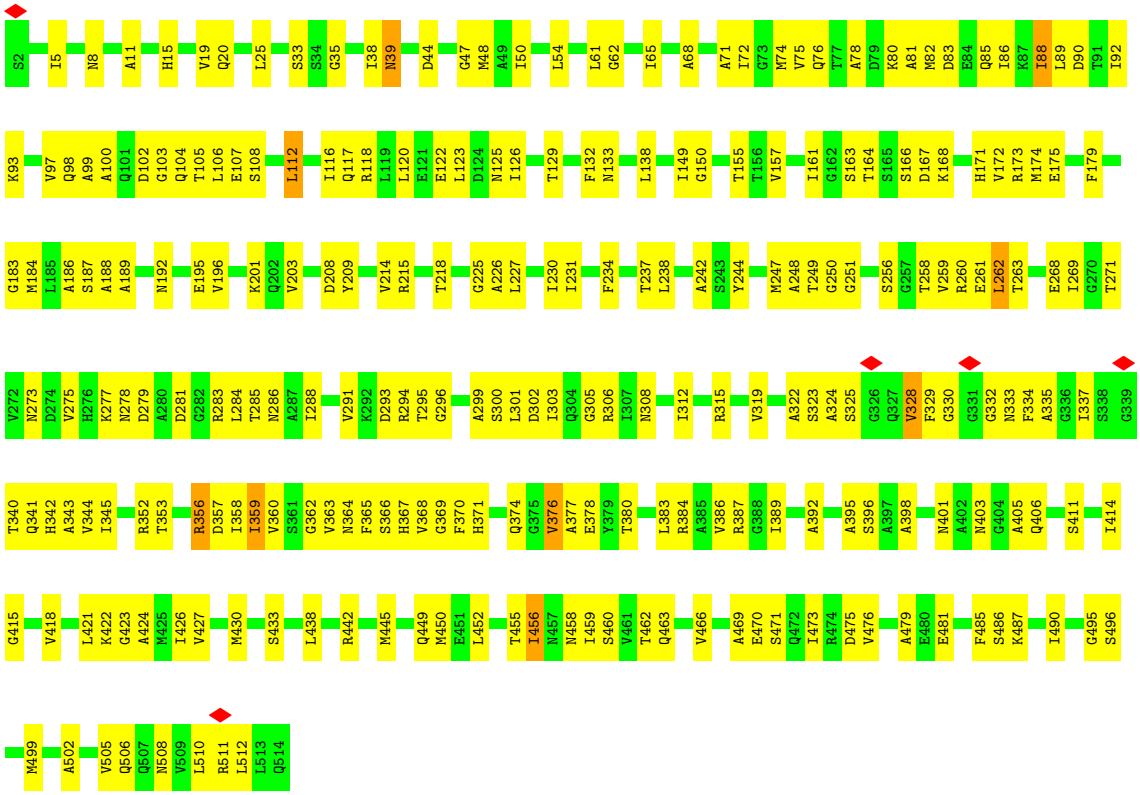




• Molecule 1: Flagellin

Chain AW:

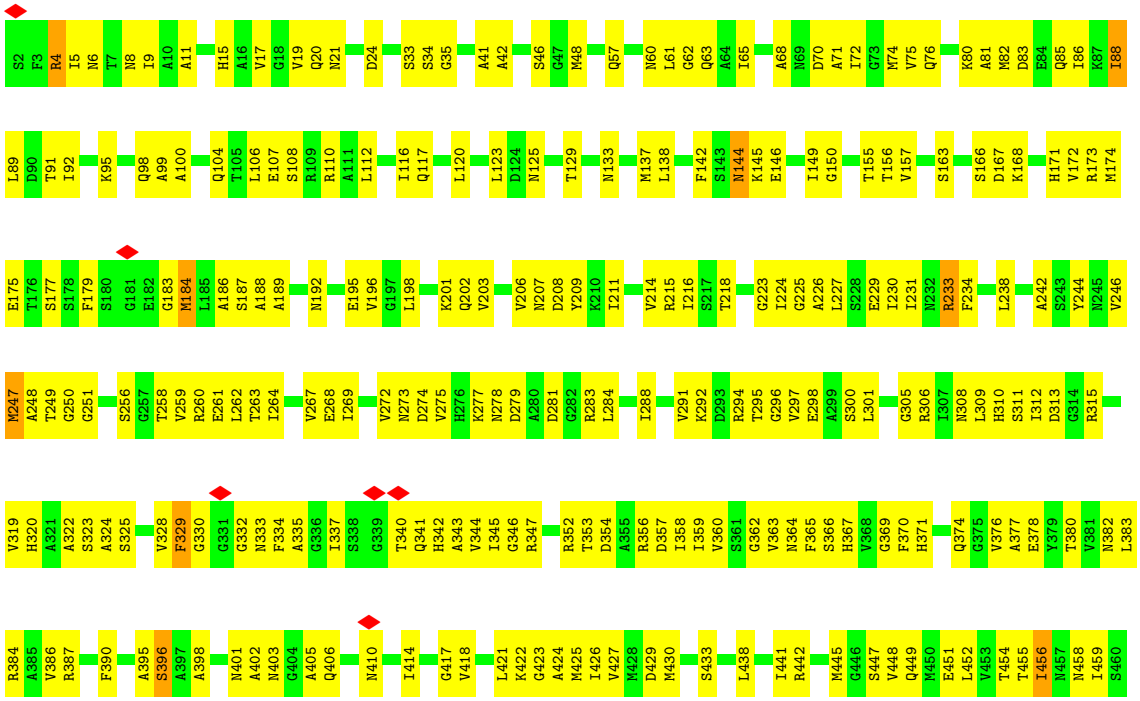


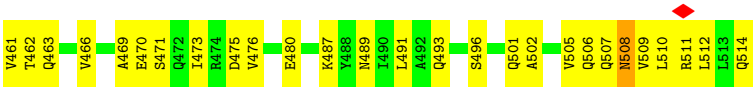


• Molecule 1: Flagellin

Chain AX:






V461
T462
Q463
V466
A469
E470
S471
Q472
I473
R474
D475
V476
E480
K487
Y488
N489
I490
L491
A492
Q493
S496
Q501
A502
V505
Q506
Q507
N508
V509
L510
R511
L512
L513
Q514

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	60029	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	70	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 BASE (4k x 4k)	Depositor
Maximum map value	0.282	Depositor
Minimum map value	-0.147	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.019	Depositor
Recommended contour level	0.052	Depositor
Map size (Å)	478.464, 478.464, 478.464	wwPDB
Map dimensions	448, 448, 448	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.068, 1.068, 1.068	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: P8E

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	A1	0.14	0/3800	0.29	0/5130
1	A2	0.14	0/3800	0.26	0/5130
1	A3	0.14	0/3800	0.28	0/5130
1	A4	0.14	0/3800	0.28	0/5130
1	A5	0.14	0/3800	0.29	0/5130
1	A6	0.14	0/3800	0.28	0/5130
1	A7	0.13	0/3800	0.28	0/5130
1	A8	0.14	0/3800	0.29	0/5130
1	A9	0.14	0/3800	0.28	0/5130
1	AA	0.13	0/3800	0.26	0/5130
1	AB	0.13	0/3800	0.27	0/5130
1	AC	0.14	0/3800	0.29	0/5130
1	AD	0.13	0/3800	0.28	0/5130
1	AE	0.14	0/3800	0.27	0/5130
1	AF	0.14	0/3800	0.28	0/5130
1	AG	0.14	0/3800	0.28	0/5130
1	AH	0.15	0/3800	0.29	0/5130
1	AI	0.14	0/3800	0.30	0/5130
1	AJ	0.14	0/3800	0.29	0/5130
1	AK	0.14	0/3800	0.28	0/5130
1	AL	0.14	0/3800	0.29	0/5130
1	AM	0.14	0/3800	0.28	0/5130
1	AN	0.15	0/3800	0.29	0/5130
1	AO	0.14	0/3800	0.29	0/5130
1	AP	0.15	0/3800	0.28	0/5130
1	AQ	0.14	0/3800	0.29	0/5130
1	AR	0.14	0/3800	0.29	0/5130
1	AS	0.15	0/3800	0.29	0/5130
1	AT	0.15	0/3800	0.30	0/5130
1	AU	0.14	0/3800	0.28	0/5130
1	AV	0.14	0/3800	0.28	0/5130
1	AW	0.14	0/3800	0.28	0/5130

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	AX	0.13	0/3800	0.28	0/5130
All	All	0.14	0/125400	0.28	0/169290

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	3772	0	3733	381	0
1	A2	3772	0	3733	341	0
1	A3	3772	0	3733	345	0
1	A4	3772	0	3733	312	0
1	A5	3772	0	3733	360	0
1	A6	3772	0	3733	367	0
1	A7	3772	0	3733	381	0
1	A8	3772	0	3733	373	0
1	A9	3772	0	3733	365	0
1	AA	3772	0	3733	333	0
1	AB	3772	0	3733	323	0
1	AC	3772	0	3733	379	0
1	AD	3772	0	3733	361	0
1	AE	3772	0	3733	373	0
1	AF	3772	0	3733	369	0
1	AG	3772	0	3733	394	0
1	AH	3772	0	3733	401	0
1	AI	3772	0	3733	396	0
1	AJ	3772	0	3733	404	0
1	AK	3772	0	3733	405	0
1	AL	3772	0	3733	375	0
1	AM	3772	0	3733	370	0
1	AN	3772	0	3733	386	0
1	AO	3772	0	3733	387	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AP	3772	0	3733	391	0
1	AQ	3772	0	3733	394	0
1	AR	3772	0	3733	408	0
1	AS	3772	0	3733	389	0
1	AT	3772	0	3733	412	0
1	AU	3772	0	3733	388	0
1	AV	3772	0	3733	326	0
1	AW	3772	0	3733	320	0
1	AX	3772	0	3733	367	0
2	A1	144	144	0	3	0
2	A2	144	144	0	3	0
2	A3	144	144	0	4	0
2	A4	144	144	0	4	0
2	A5	144	144	0	3	0
2	A6	144	144	0	3	0
2	A7	144	144	0	4	0
2	A8	144	144	0	3	0
2	A9	144	144	0	3	0
2	AA	144	144	0	3	0
2	AB	144	144	0	3	0
2	AC	144	144	0	4	0
2	AD	144	144	0	4	0
2	AE	144	144	0	4	0
2	AF	144	144	0	2	0
2	AG	144	144	0	2	0
2	AH	144	144	0	2	0
2	AI	144	144	0	2	0
2	AJ	144	144	0	4	0
2	AK	144	144	0	2	0
2	AL	144	144	0	4	0
2	AM	144	144	0	3	0
2	AN	144	144	0	3	0
2	AO	144	144	0	2	0
2	AP	144	144	0	3	0
2	AQ	144	144	0	3	0
2	AR	144	144	0	2	0
2	AS	144	144	0	2	0
2	AT	144	144	0	2	0
2	AU	144	144	0	3	0
2	AV	144	144	0	3	0
2	AW	144	144	0	3	0
2	AX	144	144	0	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	129228	4752	123189	10561	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 42.

All (10561) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:264:ILE:HG22	1:A3:319:VAL:HG23	1.22	1.17
1:AG:99:ALA:HB2	1:AG:112:LEU:HD22	1.27	1.16
1:AJ:68:ALA:HB3	1:AJ:456:ILE:HD11	1.25	1.15
1:AM:99:ALA:HB2	1:AM:112:LEU:HD22	1.28	1.15
1:AT:99:ALA:HB2	1:AT:112:LEU:HD23	1.23	1.13
1:AU:258:THR:HG22	1:AU:273:ASN:HA	1.30	1.13
1:A9:508:ASN:HA	1:A9:511:ARG:HG2	1.31	1.12
1:AN:68:ALA:HB3	1:AN:456:ILE:HD11	1.25	1.12
1:A1:99:ALA:HB2	1:A1:112:LEU:HD22	1.29	1.11
1:AB:99:ALA:HB2	1:AB:112:LEU:HD22	1.31	1.11
1:AG:68:ALA:HB3	1:AG:456:ILE:HD11	1.27	1.11
1:AH:99:ALA:HB2	1:AH:112:LEU:HD22	1.34	1.10
1:AA:99:ALA:HB2	1:AA:112:LEU:HD22	1.34	1.10
1:A2:99:ALA:HB2	1:A2:112:LEU:HD22	1.26	1.09
1:AF:99:ALA:HB2	1:AF:112:LEU:HD22	1.31	1.09
1:AK:68:ALA:HB3	1:AK:456:ILE:HD11	1.28	1.09
1:AM:68:ALA:HB3	1:AM:456:ILE:HD11	1.26	1.09
1:A1:479:ALA:HB1	1:AH:499:MET:HE1	1.30	1.09
1:AQ:99:ALA:HB2	1:AQ:112:LEU:HD22	1.24	1.09
1:A1:88:ILE:HD11	1:AQ:454:THR:HG21	1.34	1.08
1:AJ:92:ILE:HG23	1:AJ:116:ILE:HG12	1.31	1.08
1:AP:258:THR:HG22	1:AP:273:ASN:HA	1.29	1.08
1:AL:508:ASN:HA	1:AL:511:ARG:HG2	1.35	1.07
1:AS:508:ASN:HA	1:AS:511:ARG:HG2	1.32	1.07
1:A9:99:ALA:HB2	1:A9:112:LEU:HD22	1.35	1.07
1:AA:184:MET:HE1	1:AA:345:ILE:HG12	1.36	1.07
1:AJ:264:ILE:HG22	1:AJ:319:VAL:HB	1.37	1.07
1:AH:508:ASN:HA	1:AH:511:ARG:HG2	1.36	1.06
1:AN:99:ALA:HB2	1:AN:112:LEU:HD22	1.34	1.06
1:AD:508:ASN:HA	1:AD:511:ARG:HG2	1.37	1.06
1:AK:451:GLU:HG3	1:AN:122:GLU:HG3	1.37	1.06
1:AN:508:ASN:HA	1:AN:511:ARG:HG2	1.35	1.06
1:AQ:508:ASN:HA	1:AQ:511:ARG:HG2	1.35	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:99:ALA:HB2	1:A6:112:LEU:HD22	1.32	1.06
1:AO:92:ILE:HG23	1:AO:116:ILE:HG12	1.38	1.06
1:AU:508:ASN:HA	1:AU:511:ARG:HG2	1.32	1.06
1:A6:508:ASN:HA	1:A6:511:ARG:HG2	1.32	1.05
1:AE:511:ARG:HH12	1:AE:512:LEU:HD13	1.18	1.05
1:AV:99:ALA:HB2	1:AV:112:LEU:HD22	1.35	1.05
1:A5:508:ASN:HA	1:A5:511:ARG:HG2	1.35	1.05
1:AH:34:SER:HA	1:AI:17:VAL:HG11	1.37	1.05
1:AU:68:ALA:HB3	1:AU:456:ILE:HD11	1.35	1.05
1:A2:454:THR:HG21	1:AV:88:ILE:HD11	1.37	1.05
1:AW:99:ALA:HB2	1:AW:112:LEU:HD22	1.32	1.05
1:AW:258:THR:HG22	1:AW:273:ASN:HA	1.39	1.05
1:A4:99:ALA:HB2	1:A4:112:LEU:HD22	1.39	1.04
1:AB:258:THR:HG22	1:AB:273:ASN:HA	1.38	1.04
1:AQ:258:THR:HG22	1:AQ:273:ASN:HA	1.39	1.04
1:AA:68:ALA:HB3	1:AA:456:ILE:HD11	1.33	1.04
1:AM:258:THR:HG22	1:AM:273:ASN:HA	1.39	1.04
1:AR:508:ASN:HA	1:AR:511:ARG:HG2	1.34	1.04
1:AN:184:MET:HE1	1:AN:345:ILE:HG12	1.38	1.04
1:AG:258:THR:HG22	1:AG:273:ASN:HA	1.40	1.04
1:AI:184:MET:HE1	1:AI:345:ILE:HG12	1.36	1.04
1:AJ:508:ASN:HA	1:AJ:511:ARG:HG2	1.37	1.04
1:A7:508:ASN:HA	1:A7:511:ARG:HG2	1.40	1.03
1:AD:511:ARG:HH12	1:AD:512:LEU:HD13	1.23	1.03
1:AA:258:THR:HG22	1:AA:273:ASN:HA	1.39	1.03
1:AR:258:THR:HG22	1:AR:273:ASN:HA	1.41	1.03
1:AD:82:MET:HE1	1:AD:441:ILE:HG22	1.33	1.03
1:AI:258:THR:HG22	1:AI:273:ASN:HA	1.41	1.03
1:AK:211:ILE:HD11	1:AK:238:LEU:HD11	1.39	1.03
1:A3:508:ASN:HA	1:A3:511:ARG:HG2	1.38	1.03
1:A6:34:SER:HA	1:AT:17:VAL:HG11	1.40	1.03
1:AS:99:ALA:HB2	1:AS:112:LEU:HD22	1.39	1.03
1:AT:258:THR:HG22	1:AT:273:ASN:HA	1.40	1.03
1:AB:92:ILE:HG23	1:AB:116:ILE:HG12	1.39	1.02
1:AE:68:ALA:HB3	1:AE:456:ILE:HD11	1.41	1.02
1:AK:258:THR:HG22	1:AK:273:ASN:HA	1.40	1.02
1:AU:184:MET:HE1	1:AU:345:ILE:HG12	1.41	1.02
1:A8:508:ASN:HA	1:A8:511:ARG:HG2	1.38	1.02
1:AB:184:MET:HE1	1:AB:345:ILE:HG12	1.39	1.02
1:AN:92:ILE:HG23	1:AN:116:ILE:HG12	1.37	1.02
1:AX:508:ASN:HA	1:AX:511:ARG:HG2	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:511:ARG:HH12	1:A3:512:LEU:HD13	1.17	1.02
1:AC:88:ILE:HD11	1:AX:454:THR:HG21	1.42	1.02
1:AS:258:THR:HG22	1:AS:273:ASN:HA	1.41	1.02
1:AV:184:MET:HE1	1:AV:345:ILE:HG12	1.40	1.02
1:A9:184:MET:HE1	1:A9:345:ILE:HG12	1.41	1.02
1:AN:258:THR:HG22	1:AN:273:ASN:HA	1.41	1.02
1:AU:92:ILE:HG23	1:AU:116:ILE:HG12	1.39	1.02
1:AF:258:THR:HG22	1:AF:273:ASN:HA	1.40	1.01
1:AR:99:ALA:HB2	1:AR:112:LEU:HD22	1.37	1.01
1:AF:184:MET:HE1	1:AF:345:ILE:HG12	1.41	1.01
1:AH:258:THR:HG22	1:AH:273:ASN:HA	1.41	1.01
1:AT:508:ASN:HA	1:AT:511:ARG:HG2	1.37	1.01
1:AX:371:HIS:HB3	1:AX:374:GLN:HG3	1.43	1.01
1:AC:508:ASN:HA	1:AC:511:ARG:HG2	1.41	1.00
1:AG:508:ASN:HA	1:AG:511:ARG:HG2	1.41	1.00
1:AL:258:THR:HG22	1:AL:273:ASN:HA	1.44	1.00
1:AW:68:ALA:HB3	1:AW:456:ILE:HD11	1.38	1.00
1:AJ:258:THR:HG22	1:AJ:273:ASN:HA	1.43	1.00
1:AU:99:ALA:HB2	1:AU:112:LEU:HD22	1.43	1.00
1:AK:99:ALA:HB2	1:AK:112:LEU:HD22	1.42	1.00
1:AM:508:ASN:HA	1:AM:511:ARG:HG2	1.40	1.00
1:AO:258:THR:HG22	1:AO:273:ASN:HA	1.43	1.00
1:A2:371:HIS:HB3	1:A2:374:GLN:HG3	1.42	1.00
1:AE:99:ALA:HB2	1:AE:112:LEU:HD23	1.43	1.00
1:AJ:211:ILE:HD11	1:AJ:238:LEU:HD11	1.44	1.00
1:AK:184:MET:HE1	1:AK:345:ILE:HG12	1.41	0.99
1:AW:184:MET:HE1	1:AW:345:ILE:HG12	1.41	0.99
1:AX:99:ALA:HB2	1:AX:112:LEU:HD23	1.41	0.99
1:AM:184:MET:HE1	1:AM:345:ILE:HG12	1.42	0.99
1:AD:211:ILE:HD11	1:AD:238:LEU:HD11	1.40	0.99
1:AS:17:VAL:HG11	1:AT:34:SER:HA	1.44	0.99
1:AT:82:MET:HE1	1:AT:441:ILE:HG22	1.42	0.99
1:AL:509:VAL:HG12	1:AL:510:LEU:HD23	1.45	0.99
1:A1:371:HIS:HB3	1:A1:374:GLN:HG3	1.45	0.99
1:A9:371:HIS:HB3	1:A9:374:GLN:HG3	1.44	0.99
1:AF:92:ILE:HG23	1:AF:116:ILE:HG12	1.45	0.99
1:AF:508:ASN:HA	1:AF:511:ARG:HG2	1.41	0.98
1:A8:451:GLU:HG3	1:AS:122:GLU:HB2	1.43	0.98
1:AD:258:THR:HG22	1:AD:273:ASN:HA	1.45	0.98
1:AI:99:ALA:HB2	1:AI:112:LEU:HD22	1.41	0.98
1:A7:92:ILE:HG23	1:A7:116:ILE:HG12	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:371:HIS:HB3	1:AD:374:GLN:HG3	1.45	0.98
1:AE:258:THR:HG22	1:AE:273:ASN:HA	1.45	0.98
1:A5:258:THR:HG22	1:A5:273:ASN:HA	1.45	0.98
1:A9:122:GLU:HB2	1:AH:451:GLU:HG3	1.45	0.98
1:AN:340:THR:HG23	1:AN:341:GLN:HG2	1.45	0.98
1:AK:371:HIS:HB3	1:AK:374:GLN:HG3	1.46	0.98
1:AG:184:MET:HE1	1:AG:345:ILE:HG12	1.41	0.98
1:AO:508:ASN:HA	1:AO:511:ARG:HG2	1.42	0.98
1:AS:509:VAL:HG12	1:AS:510:LEU:HD23	1.44	0.98
1:AK:508:ASN:HA	1:AK:511:ARG:HG2	1.41	0.98
1:A2:92:ILE:HG23	1:A2:116:ILE:HG12	1.42	0.97
1:A3:112:LEU:O	1:A3:116:ILE:HD12	1.65	0.97
1:AP:508:ASN:HA	1:AP:511:ARG:HG2	1.43	0.97
1:A1:92:ILE:HG23	1:A1:116:ILE:HG12	1.42	0.97
1:AJ:445:MET:HE2	1:AJ:445:MET:HA	1.44	0.97
1:A2:184:MET:HE1	1:A2:345:ILE:HG12	1.41	0.97
1:A4:92:ILE:HG23	1:A4:116:ILE:HG23	1.46	0.97
1:A4:371:HIS:HB3	1:A4:374:GLN:HG3	1.44	0.97
1:A5:92:ILE:HG23	1:A5:116:ILE:HG12	1.45	0.97
1:A5:88:ILE:HD11	1:AD:454:THR:HG21	1.46	0.97
1:AC:258:THR:HG22	1:AC:273:ASN:HA	1.46	0.97
1:AQ:371:HIS:HB3	1:AQ:374:GLN:HG3	1.46	0.97
1:AR:509:VAL:HG12	1:AR:510:LEU:HD23	1.47	0.96
1:A3:454:THR:HG21	1:AL:88:ILE:HD11	1.46	0.96
1:AC:371:HIS:HB3	1:AC:374:GLN:HG3	1.48	0.96
1:AG:68:ALA:CB	1:AG:456:ILE:HD11	1.94	0.96
1:AN:371:HIS:HB3	1:AN:374:GLN:HG3	1.47	0.96
1:AW:371:HIS:HB3	1:AW:374:GLN:HG3	1.44	0.96
1:AE:371:HIS:HB3	1:AE:374:GLN:HG3	1.46	0.96
1:AK:92:ILE:HG23	1:AK:116:ILE:HG12	1.43	0.96
1:AX:144:ASN:O	1:AX:144:ASN:ND2	1.98	0.96
1:AH:371:HIS:HB3	1:AH:374:GLN:HG3	1.48	0.96
1:A4:75:VAL:HG13	1:A4:445:MET:HG2	1.48	0.96
1:AG:120:LEU:HD21	1:AG:383:LEU:HG	1.48	0.96
1:AK:251:GLY:H	1:AK:332:GLY:HA3	1.30	0.96
1:A5:99:ALA:HB2	1:A5:112:LEU:HD22	1.47	0.96
1:AO:74:MET:HE3	1:AO:137:MET:HE1	1.44	0.96
1:A3:371:HIS:HB3	1:A3:374:GLN:HG3	1.47	0.96
1:AO:264:ILE:HG22	1:AO:319:VAL:HB	1.48	0.96
1:A4:116:ILE:HD12	1:A4:418:VAL:HG21	1.47	0.95
1:AF:371:HIS:HB3	1:AF:374:GLN:HG3	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:75:VAL:HG13	1:AQ:445:MET:HG3	1.48	0.95
1:A3:175:GLU:HG2	1:A3:378:GLU:HG2	1.46	0.95
1:A3:258:THR:HG22	1:A3:273:ASN:HA	1.47	0.95
1:A5:454:THR:HG21	1:AK:88:ILE:HD11	1.48	0.95
1:AR:92:ILE:HG23	1:AR:116:ILE:HG12	1.47	0.95
1:A7:184:MET:HE1	1:A7:345:ILE:HG12	1.46	0.95
1:AA:422:LYS:O	1:AA:426:ILE:HD12	1.65	0.95
1:AI:371:HIS:HB3	1:AI:374:GLN:HG3	1.49	0.95
1:AL:499:MET:HE1	1:AS:479:ALA:HB1	1.45	0.95
1:AQ:92:ILE:HG23	1:AQ:116:ILE:HG12	1.48	0.95
1:A7:258:THR:HG22	1:A7:273:ASN:HA	1.49	0.95
1:AI:509:VAL:HG13	1:AI:510:LEU:HD23	1.46	0.95
1:AS:251:GLY:H	1:AS:332:GLY:HA3	1.29	0.95
1:AV:422:LYS:O	1:AV:426:ILE:HD12	1.66	0.95
1:AO:175:GLU:HG2	1:AO:378:GLU:HG2	1.46	0.95
1:AK:454:THR:HG21	1:AN:88:ILE:HD11	1.48	0.95
1:A3:422:LYS:O	1:A3:426:ILE:HD12	1.64	0.95
1:A7:371:HIS:HB3	1:A7:374:GLN:HG3	1.48	0.95
1:AL:371:HIS:HB3	1:AL:374:GLN:HG3	1.47	0.95
1:AB:68:ALA:HB3	1:AB:456:ILE:HD11	1.47	0.95
1:AN:509:VAL:HG12	1:AN:510:LEU:HD23	1.49	0.95
1:A9:92:ILE:HG23	1:A9:116:ILE:HG12	1.49	0.94
1:AE:175:GLU:HG2	1:AE:378:GLU:HG2	1.49	0.94
1:AQ:184:MET:HE1	1:AQ:345:ILE:HG12	1.48	0.94
1:AS:175:GLU:HG2	1:AS:378:GLU:HG2	1.50	0.94
1:AJ:371:HIS:HB3	1:AJ:374:GLN:HG3	1.49	0.94
1:AM:371:HIS:HB3	1:AM:374:GLN:HG3	1.47	0.94
1:A3:211:ILE:HD11	1:A3:238:LEU:HD11	1.50	0.94
1:A9:88:ILE:HD11	1:AH:454:THR:HG21	1.49	0.94
1:AK:458:ASN:HD22	1:AN:126:ILE:HG12	1.29	0.94
1:AJ:422:LYS:O	1:AJ:426:ILE:HD12	1.67	0.94
1:AN:251:GLY:H	1:AN:332:GLY:HA3	1.31	0.94
1:A4:184:MET:HE1	1:A4:345:ILE:HG12	1.47	0.94
1:A7:340:THR:HG23	1:A7:341:GLN:HG2	1.50	0.94
1:AI:508:ASN:HA	1:AI:511:ARG:HG2	1.48	0.94
1:AU:120:LEU:HD21	1:AU:383:LEU:HG	1.49	0.94
1:AW:75:VAL:HG13	1:AW:445:MET:HG2	1.48	0.94
1:A1:175:GLU:HG2	1:A1:378:GLU:HG2	1.48	0.94
1:A6:353:THR:HG23	1:A6:433:SER:HB2	1.49	0.94
1:A8:68:ALA:HB3	1:A8:456:ILE:HD11	1.49	0.94
1:A9:251:GLY:H	1:A9:332:GLY:HA3	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:92:ILE:HG23	1:AC:116:ILE:HG12	1.47	0.94
1:AH:251:GLY:H	1:AH:332:GLY:HA3	1.32	0.94
1:AL:175:GLU:HG2	1:AL:378:GLU:HG2	1.48	0.94
1:AW:422:LYS:O	1:AW:426:ILE:HD12	1.67	0.94
1:A7:175:GLU:HG2	1:A7:378:GLU:HG2	1.48	0.94
1:AA:74:MET:HB3	1:AA:137:MET:HE1	1.50	0.94
1:AP:175:GLU:HG2	1:AP:378:GLU:HG2	1.49	0.94
1:A1:508:ASN:HA	1:A1:511:ARG:HG2	1.50	0.94
1:A9:75:VAL:HG13	1:A9:445:MET:HG3	1.50	0.94
1:AI:175:GLU:HG2	1:AI:378:GLU:HG2	1.49	0.94
1:AJ:426:ILE:O	1:AJ:430:MET:HG3	1.68	0.94
1:A4:353:THR:HG23	1:A4:433:SER:HB2	1.50	0.93
1:AF:251:GLY:H	1:AF:332:GLY:HA3	1.30	0.93
1:AK:175:GLU:HG2	1:AK:378:GLU:HG2	1.50	0.93
1:AQ:34:SER:HA	1:AR:17:VAL:HG11	1.49	0.93
1:A6:175:GLU:HG2	1:A6:378:GLU:HG2	1.50	0.93
1:AF:175:GLU:HG2	1:AF:378:GLU:HG2	1.51	0.93
1:AF:211:ILE:HD11	1:AF:238:LEU:HD11	1.49	0.93
1:AC:175:GLU:HG2	1:AC:378:GLU:HG2	1.48	0.93
1:AU:251:GLY:H	1:AU:332:GLY:HA3	1.32	0.93
1:A8:92:ILE:HG23	1:A8:116:ILE:HG12	1.49	0.93
1:A9:175:GLU:HG2	1:A9:378:GLU:HG2	1.50	0.93
1:A6:371:HIS:HB3	1:A6:374:GLN:HG3	1.48	0.93
1:AD:92:ILE:HG23	1:AD:116:ILE:HG12	1.50	0.93
1:AL:422:LYS:O	1:AL:426:ILE:HD12	1.68	0.93
1:AS:371:HIS:HB3	1:AS:374:GLN:HG3	1.50	0.93
1:A2:120:LEU:HD21	1:A2:383:LEU:HG	1.51	0.93
1:A5:88:ILE:O	1:A5:92:ILE:HD12	1.66	0.93
1:A5:175:GLU:HG2	1:A5:378:GLU:HG2	1.49	0.93
1:A8:175:GLU:HG2	1:A8:378:GLU:HG2	1.49	0.93
1:AG:175:GLU:HG2	1:AG:378:GLU:HG2	1.49	0.93
1:AM:92:ILE:HG23	1:AM:116:ILE:HG12	1.48	0.93
1:AT:371:HIS:HB3	1:AT:374:GLN:HG3	1.48	0.93
1:A8:251:GLY:H	1:A8:332:GLY:HA3	1.34	0.93
1:AD:175:GLU:HG2	1:AD:378:GLU:HG2	1.49	0.93
1:AI:88:ILE:HD11	1:AO:454:THR:HG21	1.50	0.93
1:AN:175:GLU:HG2	1:AN:378:GLU:HG2	1.50	0.93
1:AQ:126:ILE:HG12	1:AR:458:ASN:HD22	1.33	0.93
1:A2:88:ILE:HD11	1:AM:454:THR:HG21	1.51	0.93
1:A1:251:GLY:H	1:A1:332:GLY:HA3	1.32	0.93
1:AM:353:THR:HG23	1:AM:433:SER:HB2	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:509:VAL:HG12	1:AT:510:LEU:HD23	1.49	0.93
1:A2:251:GLY:H	1:A2:332:GLY:HA3	1.31	0.93
1:A6:454:THR:HG21	1:AW:88:ILE:HD11	1.50	0.93
1:A9:422:LYS:O	1:A9:426:ILE:HD12	1.68	0.93
1:AH:175:GLU:HG2	1:AH:378:GLU:HG2	1.51	0.93
1:AW:92:ILE:HG23	1:AW:116:ILE:HG12	1.48	0.93
1:AA:251:GLY:H	1:AA:332:GLY:HA3	1.34	0.92
1:AR:371:HIS:HB3	1:AR:374:GLN:HG3	1.50	0.92
1:AR:175:GLU:HG2	1:AR:378:GLU:HG2	1.49	0.92
1:AT:175:GLU:HG2	1:AT:378:GLU:HG2	1.50	0.92
1:AX:340:THR:HG23	1:AX:341:GLN:HG2	1.48	0.92
1:A5:422:LYS:O	1:A5:426:ILE:HD12	1.70	0.92
1:AC:99:ALA:HB2	1:AC:112:LEU:HD22	1.51	0.92
1:AH:509:VAL:HG12	1:AH:510:LEU:HD23	1.52	0.92
1:AW:251:GLY:H	1:AW:332:GLY:HA3	1.34	0.92
1:AM:68:ALA:CB	1:AM:456:ILE:HD11	1.99	0.92
1:AU:175:GLU:HG2	1:AU:378:GLU:HG2	1.50	0.92
1:AU:371:HIS:HB3	1:AU:374:GLN:HG3	1.51	0.92
1:AU:509:VAL:HG12	1:AU:510:LEU:HD23	1.49	0.92
1:AQ:353:THR:HG23	1:AQ:433:SER:HB2	1.50	0.92
1:AT:92:ILE:HG23	1:AT:116:ILE:HG12	1.50	0.92
1:A6:75:VAL:HG13	1:A6:445:MET:HG3	1.52	0.92
1:AD:240:VAL:HG22	1:AD:352:ARG:HD2	1.50	0.92
1:AM:175:GLU:HG2	1:AM:378:GLU:HG2	1.50	0.92
1:AV:75:VAL:HG13	1:AV:445:MET:HE3	1.51	0.92
1:A7:426:ILE:O	1:A7:430:MET:HG3	1.67	0.92
1:AB:353:THR:HG23	1:AB:433:SER:HB2	1.52	0.92
1:AF:353:THR:HG23	1:AF:433:SER:HB2	1.50	0.92
1:AG:251:GLY:H	1:AG:332:GLY:HA3	1.32	0.92
1:AG:371:HIS:HB3	1:AG:374:GLN:HG3	1.49	0.92
1:AM:251:GLY:H	1:AM:332:GLY:HA3	1.33	0.92
1:AI:251:GLY:H	1:AI:332:GLY:HA3	1.33	0.92
1:AL:75:VAL:HG13	1:AL:445:MET:HG3	1.48	0.92
1:AX:175:GLU:HG2	1:AX:378:GLU:HG2	1.48	0.92
1:A7:422:LYS:O	1:A7:426:ILE:HD12	1.70	0.92
1:A8:371:HIS:HB3	1:A8:374:GLN:HG3	1.52	0.92
1:A9:303:ILE:HA	1:AH:234:PHE:CZ	2.04	0.92
1:AW:175:GLU:HG2	1:AW:378:GLU:HG2	1.50	0.92
1:AX:258:THR:HG22	1:AX:273:ASN:HA	1.51	0.92
1:A2:75:VAL:HG13	1:A2:445:MET:HG2	1.50	0.91
1:A8:340:THR:HG23	1:A8:341:GLN:HG2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:116:ILE:HD12	1:AV:418:VAL:HG21	1.52	0.91
1:AA:92:ILE:HG23	1:AA:116:ILE:HG12	1.53	0.91
1:AD:426:ILE:O	1:AD:430:MET:HG3	1.68	0.91
1:AF:340:THR:HG23	1:AF:341:GLN:HG2	1.53	0.91
1:AP:371:HIS:HB3	1:AP:374:GLN:HG3	1.51	0.91
1:AS:120:LEU:HD11	1:AS:383:LEU:HG	1.53	0.91
1:AP:251:GLY:H	1:AP:332:GLY:HA3	1.31	0.91
1:AR:251:GLY:H	1:AR:332:GLY:HA3	1.32	0.91
1:AT:422:LYS:O	1:AT:426:ILE:HD12	1.71	0.91
1:A6:251:GLY:H	1:A6:332:GLY:HA3	1.31	0.91
1:AG:451:GLU:HG3	1:AM:122:GLU:HB2	1.53	0.91
1:AP:88:ILE:O	1:AP:92:ILE:HD12	1.68	0.91
1:AU:340:THR:HG23	1:AU:341:GLN:HG2	1.49	0.91
1:A3:451:GLU:HA	1:AL:122:GLU:OE1	1.71	0.91
1:AA:75:VAL:HG13	1:AA:445:MET:HG2	1.50	0.91
1:AC:422:LYS:O	1:AC:426:ILE:HD12	1.70	0.91
1:A1:184:MET:HE1	1:A1:345:ILE:HG12	1.51	0.91
1:AA:371:HIS:HB3	1:AA:374:GLN:HG3	1.50	0.91
1:AH:88:ILE:HD11	1:AI:454:THR:HG21	1.52	0.91
1:AR:353:THR:HG23	1:AR:433:SER:HB2	1.53	0.91
1:AJ:175:GLU:HG2	1:AJ:378:GLU:HG2	1.51	0.91
1:AS:353:THR:HG23	1:AS:433:SER:HB2	1.52	0.91
1:A7:510:LEU:HD22	1:A7:514:GLN:HE21	1.33	0.91
1:AB:371:HIS:HB3	1:AB:374:GLN:HG3	1.52	0.91
1:AE:92:ILE:HG23	1:AE:116:ILE:HG12	1.50	0.91
1:AF:75:VAL:HG13	1:AF:445:MET:HG3	1.52	0.91
1:AR:122:GLU:OE1	1:AU:451:GLU:HA	1.70	0.91
1:A1:353:THR:HG23	1:A1:433:SER:HB2	1.53	0.90
1:A3:99:ALA:HB2	1:A3:112:LEU:HD23	1.53	0.90
1:AC:149:ILE:HD12	1:AC:455:THR:HG21	1.53	0.90
1:AE:422:LYS:O	1:AE:426:ILE:HD12	1.72	0.90
1:AQ:175:GLU:HG2	1:AQ:378:GLU:HG2	1.51	0.90
1:AQ:251:GLY:H	1:AQ:332:GLY:HA3	1.32	0.90
1:AQ:509:VAL:HG12	1:AQ:510:LEU:HD23	1.53	0.90
1:AW:120:LEU:HD21	1:AW:383:LEU:HG	1.49	0.90
1:A1:234:PHE:CZ	1:AB:303:ILE:HA	2.06	0.90
1:AL:251:GLY:H	1:AL:332:GLY:HA3	1.36	0.90
1:A2:175:GLU:HG2	1:A2:378:GLU:HG2	1.51	0.90
1:A4:175:GLU:HG2	1:A4:378:GLU:HG2	1.52	0.90
1:A4:251:GLY:H	1:A4:332:GLY:HA3	1.32	0.90
1:A7:60:ASN:HD21	1:AP:93:LYS:HG2	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:99:ALA:HB2	1:A7:112:LEU:HD23	1.52	0.90
1:A8:422:LYS:O	1:A8:426:ILE:HD12	1.71	0.90
1:AI:353:THR:HG23	1:AI:433:SER:HB2	1.54	0.90
1:AT:251:GLY:H	1:AT:332:GLY:HA3	1.33	0.90
1:AD:422:LYS:O	1:AD:426:ILE:HD12	1.70	0.90
1:AG:340:THR:HG23	1:AG:341:GLN:HG2	1.52	0.90
1:AV:353:THR:HG23	1:AV:433:SER:HB2	1.53	0.90
1:A2:353:THR:HG23	1:A2:433:SER:HB2	1.54	0.90
1:AX:149:ILE:HD12	1:AX:455:THR:HG21	1.53	0.90
1:AX:173:ARG:HH12	1:AX:378:GLU:HB3	1.36	0.90
1:AM:120:LEU:HD21	1:AM:383:LEU:HG	1.53	0.90
1:AC:251:GLY:H	1:AC:332:GLY:HA3	1.37	0.90
1:AO:251:GLY:H	1:AO:332:GLY:HA3	1.35	0.90
1:AP:353:THR:HG23	1:AP:433:SER:HB2	1.53	0.90
1:A4:88:ILE:O	1:A4:92:ILE:HD12	1.71	0.90
1:A4:340:THR:HG23	1:A4:341:GLN:HG2	1.53	0.90
1:AB:175:GLU:HG2	1:AB:378:GLU:HG2	1.51	0.90
1:AJ:259:VAL:HG22	1:AJ:328:VAL:HG21	1.54	0.90
1:AU:211:ILE:HD11	1:AU:238:LEU:HD11	1.54	0.90
1:A6:258:THR:HG23	1:A6:273:ASN:HA	1.52	0.90
1:AC:25:LEU:HD21	1:AX:505:VAL:HG21	1.52	0.90
1:AF:184:MET:HA	1:AF:192:ASN:HD21	1.36	0.90
1:AH:303:ILE:HA	1:AI:234:PHE:CZ	2.06	0.90
1:AS:340:THR:HG23	1:AS:341:GLN:HG2	1.54	0.90
1:A8:88:ILE:O	1:A8:92:ILE:HD12	1.72	0.89
1:AO:422:LYS:O	1:AO:426:ILE:HD12	1.71	0.89
1:A3:340:THR:HG23	1:A3:341:GLN:HG2	1.52	0.89
1:A6:74:MET:HB3	1:A6:137:MET:HE1	1.54	0.89
1:AA:175:GLU:HG2	1:AA:378:GLU:HG2	1.53	0.89
1:AB:88:ILE:O	1:AB:92:ILE:HD12	1.71	0.89
1:AJ:340:THR:HG23	1:AJ:341:GLN:HG2	1.53	0.89
1:A5:371:HIS:HB3	1:A5:374:GLN:HG3	1.54	0.89
1:A7:451:GLU:HA	1:AJ:122:GLU:OE1	1.71	0.89
1:AN:88:ILE:O	1:AN:92:ILE:HD12	1.71	0.89
1:A2:340:THR:HG23	1:A2:341:GLN:HG2	1.52	0.89
1:AD:251:GLY:H	1:AD:332:GLY:HA3	1.37	0.89
1:AI:386:VAL:HG23	1:AI:430:MET:HE1	1.51	0.89
1:AL:340:THR:HG23	1:AL:341:GLN:HG2	1.54	0.89
1:AH:340:THR:HG23	1:AH:341:GLN:HG2	1.52	0.89
1:A5:251:GLY:H	1:A5:332:GLY:HA3	1.36	0.89
1:A6:88:ILE:HD11	1:AT:454:THR:HG21	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:122:GLU:OE1	1:AE:451:GLU:HA	1.72	0.89
1:A9:340:THR:HG23	1:A9:341:GLN:HG2	1.54	0.89
1:A9:353:THR:HG23	1:A9:433:SER:HB2	1.55	0.89
1:AW:353:THR:HG23	1:AW:433:SER:HB2	1.54	0.89
1:AD:340:THR:HG23	1:AD:341:GLN:HG2	1.53	0.89
1:AH:68:ALA:HB3	1:AH:456:ILE:HD11	1.55	0.89
1:AH:353:THR:HG23	1:AH:433:SER:HB2	1.55	0.89
1:AJ:251:GLY:H	1:AJ:332:GLY:HA3	1.38	0.89
1:AL:451:GLU:HA	1:AP:122:GLU:OE1	1.73	0.89
1:AR:88:ILE:O	1:AR:92:ILE:HD12	1.71	0.89
1:AS:454:THR:HG21	1:AT:88:ILE:HD11	1.53	0.89
1:AA:353:THR:HG23	1:AA:433:SER:HB2	1.54	0.89
1:AC:122:GLU:OE1	1:AX:451:GLU:HA	1.72	0.89
1:AO:302:ASP:HB3	1:AO:308:ASN:HD21	1.37	0.89
1:A6:340:THR:HG23	1:A6:341:GLN:HG2	1.53	0.89
1:AE:340:THR:HG23	1:AE:341:GLN:HG2	1.54	0.89
1:AQ:340:THR:HG23	1:AQ:341:GLN:HG2	1.53	0.88
1:A3:173:ARG:HH12	1:A3:378:GLU:HB3	1.38	0.88
1:A4:68:ALA:HB3	1:A4:456:ILE:HD11	1.55	0.88
1:A4:258:THR:HG23	1:A4:273:ASN:HA	1.54	0.88
1:AA:426:ILE:O	1:AA:430:MET:HG3	1.72	0.88
1:AT:340:THR:HG23	1:AT:341:GLN:HG2	1.55	0.88
1:AD:88:ILE:O	1:AD:92:ILE:HD12	1.73	0.88
1:AH:116:ILE:HD12	1:AH:418:VAL:HG21	1.55	0.88
1:AP:149:ILE:HD12	1:AP:455:THR:HG21	1.53	0.88
1:AV:251:GLY:H	1:AV:332:GLY:HA3	1.35	0.88
1:A2:258:THR:HG23	1:A2:273:ASN:HA	1.54	0.88
1:A5:122:GLU:HG3	1:AD:451:GLU:HG3	1.53	0.88
1:A6:234:PHE:CZ	1:AW:303:ILE:HA	2.08	0.88
1:AH:75:VAL:HG13	1:AH:445:MET:HG2	1.53	0.88
1:AM:75:VAL:HG13	1:AM:445:MET:HG3	1.52	0.88
1:AV:340:THR:HG23	1:AV:341:GLN:HG2	1.54	0.88
1:AK:340:THR:HG23	1:AK:341:GLN:HG2	1.56	0.88
1:AL:505:VAL:HG21	1:AP:25:LEU:HD21	1.55	0.88
1:AU:189:ALA:HA	1:AU:192:ASN:OD1	1.72	0.88
1:A1:340:THR:HG23	1:A1:341:GLN:HG2	1.53	0.88
1:AC:264:ILE:HG22	1:AC:319:VAL:HG23	1.56	0.88
1:AE:251:GLY:H	1:AE:332:GLY:HA3	1.37	0.88
1:AM:340:THR:HG23	1:AM:341:GLN:HG2	1.53	0.88
1:AV:68:ALA:HB3	1:AV:456:ILE:HD11	1.55	0.88
1:AW:340:THR:HG23	1:AW:341:GLN:HG2	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:184:MET:HA	1:A9:192:ASN:HD21	1.38	0.88
1:AG:353:THR:HG23	1:AG:433:SER:HB2	1.55	0.88
1:A5:38:ILE:HD12	1:A5:474:ARG:HA	1.56	0.88
1:AJ:370:PHE:HA	1:AJ:376:VAL:HG11	1.56	0.88
1:AK:88:ILE:O	1:AK:92:ILE:HD12	1.74	0.88
1:A2:426:ILE:O	1:A2:430:MET:HG3	1.72	0.88
1:A9:258:THR:HG23	1:A9:273:ASN:HA	1.53	0.88
1:A6:68:ALA:HB3	1:A6:456:ILE:HD11	1.55	0.87
1:A6:92:ILE:HG23	1:A6:116:ILE:HG12	1.55	0.87
1:AA:340:THR:HG23	1:AA:341:GLN:HG2	1.56	0.87
1:AH:184:MET:HA	1:AH:192:ASN:HD21	1.38	0.87
1:AR:88:ILE:HD11	1:AU:454:THR:HG21	1.56	0.87
1:AK:353:THR:HG23	1:AK:433:SER:HB2	1.56	0.87
1:AV:258:THR:HG23	1:AV:273:ASN:HA	1.54	0.87
1:A6:211:ILE:HD11	1:A6:238:LEU:HD21	1.55	0.87
1:AV:175:GLU:HG2	1:AV:378:GLU:HG2	1.53	0.87
1:A6:451:GLU:HA	1:AW:122:GLU:OE1	1.73	0.87
1:AH:88:ILE:O	1:AH:92:ILE:HD12	1.74	0.87
1:AJ:88:ILE:O	1:AJ:92:ILE:HD12	1.74	0.87
1:AN:353:THR:HG23	1:AN:433:SER:HB2	1.57	0.87
1:AW:184:MET:HA	1:AW:192:ASN:HD21	1.39	0.87
1:A4:423:GLY:O	1:A4:427:VAL:HG23	1.74	0.87
1:A6:184:MET:HE1	1:A6:345:ILE:HG12	1.53	0.87
1:A7:68:ALA:HB3	1:A7:456:ILE:HD11	1.55	0.87
1:AA:184:MET:HA	1:AA:192:ASN:HD21	1.39	0.87
1:A3:505:VAL:HG21	1:AL:25:LEU:HD21	1.57	0.87
1:A6:496:SER:HA	1:A6:499:MET:HE3	1.57	0.87
1:AA:103:GLY:CA	1:AN:74:MET:HE1	2.04	0.87
1:AC:340:THR:HG23	1:AC:341:GLN:HG2	1.55	0.87
1:AR:340:THR:HG23	1:AR:341:GLN:HG2	1.54	0.87
1:AC:184:MET:HE1	1:AC:345:ILE:HG12	1.57	0.87
1:AW:88:ILE:O	1:AW:92:ILE:HD12	1.73	0.87
1:A5:353:THR:HG23	1:A5:433:SER:HB2	1.57	0.87
1:A9:88:ILE:O	1:A9:92:ILE:HD12	1.75	0.87
1:A9:302:ASP:HB3	1:A9:308:ASN:HD21	1.40	0.87
1:AF:88:ILE:O	1:AF:92:ILE:HD12	1.74	0.87
1:AL:88:ILE:O	1:AL:92:ILE:HD12	1.75	0.87
1:AM:234:PHE:O	1:AM:238:LEU:HD12	1.74	0.87
1:AH:68:ALA:CB	1:AH:456:ILE:HD11	2.04	0.86
1:A1:509:VAL:HG12	1:A1:510:LEU:HD23	1.55	0.86
1:A2:184:MET:HA	1:A2:192:ASN:HD21	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:251:GLY:H	1:A3:332:GLY:HA3	1.40	0.86
1:AQ:88:ILE:O	1:AQ:92:ILE:HD12	1.75	0.86
1:AG:88:ILE:O	1:AG:92:ILE:HD12	1.75	0.86
1:AO:99:ALA:HB2	1:AO:112:LEU:HD23	1.57	0.86
1:AU:353:THR:HG23	1:AU:433:SER:HB2	1.57	0.86
1:AC:88:ILE:O	1:AC:92:ILE:HD12	1.74	0.86
1:AC:451:GLU:HG3	1:AO:122:GLU:HB2	1.54	0.86
1:AF:68:ALA:HB3	1:AF:456:ILE:HD11	1.55	0.86
1:AX:88:ILE:O	1:AX:92:ILE:HD12	1.73	0.86
1:A1:234:PHE:O	1:A1:238:LEU:HD12	1.75	0.86
1:A4:234:PHE:O	1:A4:238:LEU:HD12	1.75	0.86
1:AB:340:THR:HG23	1:AB:341:GLN:HG2	1.56	0.86
1:AF:422:LYS:O	1:AF:426:ILE:HD12	1.76	0.86
1:AJ:179:PHE:HD1	1:AJ:184:MET:HE3	1.40	0.86
1:AM:88:ILE:O	1:AM:92:ILE:HD12	1.74	0.86
1:AO:88:ILE:O	1:AO:92:ILE:HD12	1.74	0.86
1:A6:88:ILE:O	1:A6:92:ILE:HD12	1.75	0.86
1:AA:88:ILE:O	1:AA:92:ILE:HD12	1.76	0.86
1:A7:88:ILE:O	1:A7:92:ILE:HD12	1.75	0.86
1:AA:68:ALA:CB	1:AA:456:ILE:HD11	2.06	0.86
1:AG:88:ILE:HD11	1:AP:454:THR:HG21	1.56	0.86
1:AI:25:LEU:HD21	1:AO:505:VAL:HG21	1.56	0.85
1:AT:88:ILE:O	1:AT:92:ILE:HD12	1.76	0.85
1:AG:509:VAL:HG12	1:AG:510:LEU:HD23	1.58	0.85
1:AI:499:MET:HE1	1:AQ:479:ALA:HB1	1.58	0.85
1:AO:371:HIS:HB3	1:AO:374:GLN:HG3	1.58	0.85
1:AS:88:ILE:O	1:AS:92:ILE:HD12	1.76	0.85
1:A2:422:LYS:O	1:A2:426:ILE:HD12	1.76	0.85
1:AB:234:PHE:O	1:AB:238:LEU:HD12	1.76	0.85
1:AI:88:ILE:O	1:AI:92:ILE:HD12	1.76	0.85
1:A1:258:THR:HG23	1:A1:273:ASN:HA	1.55	0.85
1:A3:6:ASN:HB2	1:AS:475:ASP:OD1	1.77	0.85
1:A4:122:GLU:OE1	1:AF:451:GLU:HA	1.75	0.85
1:AP:499:MET:HE1	1:AT:479:ALA:HB1	1.56	0.85
1:AS:234:PHE:CZ	1:AT:303:ILE:HA	2.10	0.85
1:AT:99:ALA:CB	1:AT:112:LEU:HD23	2.07	0.85
1:A4:103:GLY:HA2	1:AT:74:MET:HE1	1.56	0.85
1:A8:258:THR:HG23	1:A8:273:ASN:HA	1.58	0.85
1:A8:302:ASP:HB3	1:A8:308:ASN:HD21	1.42	0.85
1:AO:120:LEU:HD11	1:AO:166:SER:HB2	1.58	0.85
1:A1:68:ALA:HB3	1:A1:456:ILE:HD11	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:88:ILE:O	1:AV:92:ILE:HD12	1.75	0.85
1:A8:353:THR:HG23	1:A8:433:SER:HB2	1.57	0.85
1:AL:264:ILE:HG22	1:AL:319:VAL:HB	1.59	0.85
1:AV:234:PHE:O	1:AV:238:LEU:HD12	1.77	0.85
1:AO:211:ILE:HD11	1:AO:238:LEU:HD11	1.55	0.85
1:AO:353:THR:HG23	1:AO:433:SER:HB2	1.59	0.85
1:AV:184:MET:HA	1:AV:192:ASN:HD21	1.40	0.85
1:A3:353:THR:HG23	1:A3:433:SER:HB2	1.58	0.85
1:A7:353:THR:HG23	1:A7:433:SER:HB2	1.59	0.85
1:AG:426:ILE:O	1:AG:430:MET:HG3	1.77	0.85
1:AO:74:MET:HE3	1:AO:137:MET:CE	2.06	0.85
1:AV:92:ILE:HG23	1:AV:116:ILE:HG23	1.56	0.85
1:AV:167:ASP:HA	1:AV:384:ARG:HB2	1.59	0.85
1:AE:353:THR:HG23	1:AE:433:SER:HB2	1.59	0.84
1:A8:179:PHE:HD1	1:A8:184:MET:HE3	1.41	0.84
1:A8:454:THR:HG21	1:AS:88:ILE:HD11	1.57	0.84
1:A8:455:THR:O	1:A8:459:ILE:HG23	1.78	0.84
1:AQ:455:THR:O	1:AQ:459:ILE:HG23	1.77	0.84
1:A1:88:ILE:O	1:A1:92:ILE:HD12	1.77	0.84
1:A7:173:ARG:HH12	1:A7:378:GLU:HB3	1.41	0.84
1:A7:211:ILE:HD11	1:A7:238:LEU:HD11	1.59	0.84
1:AA:103:GLY:HA2	1:AN:74:MET:HE1	1.59	0.84
1:AB:184:MET:HA	1:AB:192:ASN:HD21	1.40	0.84
1:AF:426:ILE:O	1:AF:430:MET:HG3	1.76	0.84
1:AN:234:PHE:O	1:AN:238:LEU:HD12	1.76	0.84
1:A7:251:GLY:H	1:A7:332:GLY:HA3	1.40	0.84
1:AG:92:ILE:HG23	1:AG:116:ILE:HG23	1.58	0.84
1:A5:340:THR:HG23	1:A5:341:GLN:HG2	1.57	0.84
1:AD:510:LEU:HD12	1:AO:490:ILE:HG23	1.60	0.84
1:AI:455:THR:O	1:AI:459:ILE:HG23	1.77	0.84
1:AO:340:THR:HG23	1:AO:341:GLN:HG2	1.58	0.84
1:AV:426:ILE:O	1:AV:430:MET:HG3	1.76	0.84
1:A5:17:VAL:HG21	1:AK:33:SER:HB2	1.60	0.84
1:AE:60:ASN:HD21	1:AK:93:LYS:HG2	1.43	0.84
1:AJ:353:THR:HG23	1:AJ:433:SER:HB2	1.58	0.84
1:A3:88:ILE:O	1:A3:92:ILE:HD12	1.78	0.84
1:AJ:224:ILE:HD13	1:AJ:345:ILE:O	1.78	0.84
1:AL:454:THR:HG21	1:AP:88:ILE:HD11	1.57	0.84
1:AB:234:PHE:HB3	1:AB:238:LEU:HD11	1.60	0.83
1:AU:259:VAL:HG22	1:AU:328:VAL:HG21	1.60	0.83
1:AX:370:PHE:HA	1:AX:376:VAL:HG11	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:184:MET:HA	1:A4:192:ASN:HD21	1.43	0.83
1:AE:88:ILE:O	1:AE:92:ILE:HD12	1.78	0.83
1:AJ:17:VAL:HG21	1:AU:33:SER:HB2	1.60	0.83
1:AX:422:LYS:O	1:AX:426:ILE:HD12	1.77	0.83
1:AU:475:ASP:OD1	1:AX:6:ASN:HB2	1.78	0.83
1:A1:133:ASN:ND2	1:AQ:50:ILE:HD11	1.93	0.83
1:AQ:68:ALA:HB3	1:AQ:456:ILE:HD11	1.60	0.83
1:AU:88:ILE:O	1:AU:92:ILE:HD12	1.77	0.83
1:AU:455:THR:O	1:AU:459:ILE:HG23	1.78	0.83
1:AI:303:ILE:HD12	1:AO:234:PHE:CE1	2.14	0.83
1:AM:167:ASP:HA	1:AM:384:ARG:HB2	1.60	0.83
1:A6:234:PHE:O	1:A6:238:LEU:HD12	1.78	0.83
1:A7:6:ASN:HB2	1:AP:475:ASP:OD1	1.77	0.83
1:AJ:184:MET:HA	1:AJ:192:ASN:HD21	1.44	0.83
1:AO:173:ARG:HH12	1:AO:378:GLU:HB3	1.43	0.83
1:AS:189:ALA:HA	1:AS:192:ASN:OD1	1.79	0.83
1:AW:234:PHE:HB3	1:AW:238:LEU:CD1	2.09	0.83
1:A8:6:ASN:HB2	1:AN:475:ASP:OD1	1.77	0.83
1:AE:370:PHE:HA	1:AE:376:VAL:HG11	1.59	0.83
1:AO:149:ILE:HD12	1:AO:455:THR:HG21	1.61	0.83
1:AQ:234:PHE:O	1:AQ:238:LEU:HD12	1.78	0.83
1:A7:4:ARG:HH22	1:AP:472:GLN:HG2	1.42	0.83
1:A3:184:MET:HA	1:A3:192:ASN:HD21	1.43	0.83
1:A4:455:THR:O	1:A4:459:ILE:HG23	1.79	0.83
1:A6:25:LEU:HD21	1:AT:505:VAL:HG21	1.59	0.83
1:AD:352:ARG:HH12	1:AD:356:ARG:HB3	1.44	0.83
1:AP:426:ILE:O	1:AP:430:MET:HG3	1.78	0.83
1:AE:6:ASN:HB2	1:AK:475:ASP:OD1	1.79	0.83
1:AI:340:THR:HG23	1:AI:341:GLN:HG2	1.59	0.83
1:AR:455:THR:O	1:AR:459:ILE:HG23	1.78	0.83
1:A2:167:ASP:HA	1:A2:384:ARG:HB2	1.61	0.82
1:AC:353:THR:HG23	1:AC:433:SER:HB2	1.61	0.82
1:AT:455:THR:O	1:AT:459:ILE:HG23	1.79	0.82
1:A5:426:ILE:O	1:A5:430:MET:HG3	1.79	0.82
1:AS:455:THR:O	1:AS:459:ILE:HG23	1.78	0.82
1:AN:426:ILE:O	1:AN:430:MET:HG3	1.77	0.82
1:A4:234:PHE:HB3	1:A4:238:LEU:HD11	1.61	0.82
1:A8:17:VAL:HG21	1:AS:33:SER:HB2	1.61	0.82
1:A8:74:MET:HB3	1:A8:137:MET:HE1	1.61	0.82
1:AC:370:PHE:HA	1:AC:376:VAL:HG11	1.61	0.82
1:AE:224:ILE:HD13	1:AE:345:ILE:O	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:211:ILE:HD11	1:AH:238:LEU:HD11	1.61	0.82
1:AX:251:GLY:H	1:AX:332:GLY:HA3	1.41	0.82
1:AX:263:THR:HG22	1:AX:268:GLU:HA	1.62	0.82
1:A2:88:ILE:O	1:A2:92:ILE:HD12	1.78	0.82
1:A3:68:ALA:HB3	1:A3:456:ILE:HD11	1.62	0.82
1:A6:303:ILE:HA	1:AT:234:PHE:CZ	2.13	0.82
1:AI:189:ALA:HA	1:AI:192:ASN:OD1	1.78	0.82
1:AP:179:PHE:HD1	1:AP:184:MET:HE3	1.45	0.82
1:AX:74:MET:HE3	1:AX:137:MET:HE1	1.59	0.82
1:AX:353:THR:HG23	1:AX:433:SER:HB2	1.61	0.82
1:A1:93:LYS:HG2	1:AI:60:ASN:HD21	1.43	0.82
1:A7:454:THR:HG21	1:AJ:88:ILE:HD11	1.59	0.82
1:AP:173:ARG:HH12	1:AP:378:GLU:HB3	1.44	0.82
1:A2:68:ALA:HB3	1:A2:456:ILE:HD11	1.62	0.82
1:A7:455:THR:O	1:A7:459:ILE:HG23	1.79	0.82
1:AC:33:SER:HB2	1:AX:17:VAL:HG21	1.61	0.82
1:AE:455:THR:O	1:AE:459:ILE:HG23	1.79	0.82
1:AL:353:THR:HG23	1:AL:433:SER:HB2	1.60	0.82
1:AM:184:MET:HA	1:AM:192:ASN:HD21	1.42	0.82
1:AP:68:ALA:HB3	1:AP:456:ILE:HD11	1.62	0.82
1:AP:259:VAL:HG22	1:AP:328:VAL:HG21	1.61	0.82
1:AJ:511:ARG:HH12	1:AJ:512:LEU:HD12	1.43	0.82
1:AN:189:ALA:HA	1:AN:192:ASN:OD1	1.79	0.82
1:AU:426:ILE:O	1:AU:430:MET:HG3	1.80	0.82
1:AN:455:THR:O	1:AN:459:ILE:HG23	1.80	0.82
1:AT:353:THR:HG23	1:AT:433:SER:HB2	1.59	0.82
1:A6:234:PHE:HB3	1:A6:238:LEU:HD11	1.62	0.82
1:AD:68:ALA:HB3	1:AD:456:ILE:HD11	1.59	0.82
1:AE:184:MET:HA	1:AE:192:ASN:HD21	1.45	0.82
1:AX:445:MET:HE2	1:AX:445:MET:HA	1.62	0.82
1:A9:68:ALA:HB3	1:A9:456:ILE:HD11	1.61	0.81
1:A3:46:SER:HB2	1:AT:112:LEU:CD1	2.10	0.81
1:AC:445:MET:HE2	1:AC:445:MET:HA	1.62	0.81
1:AF:25:LEU:HD21	1:AN:505:VAL:HG21	1.62	0.81
1:AP:184:MET:HA	1:AP:192:ASN:HD21	1.45	0.81
1:AX:184:MET:HA	1:AX:192:ASN:HD21	1.44	0.81
1:A9:120:LEU:HD21	1:A9:383:LEU:HG	1.61	0.81
1:AA:249:THR:HG22	1:AA:403:ASN:HD21	1.46	0.81
1:AE:264:ILE:HG22	1:AE:319:VAL:HG23	1.61	0.81
1:AM:103:GLY:HA3	1:AU:74:MET:HE1	1.62	0.81
1:AS:92:ILE:HG23	1:AS:116:ILE:HG23	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:234:PHE:O	1:AS:238:LEU:HD12	1.79	0.81
1:AW:426:ILE:O	1:AW:430:MET:HG3	1.80	0.81
1:A3:89:LEU:HA	1:A3:92:ILE:CD1	2.11	0.81
1:A6:383:LEU:HA	1:A6:430:MET:HE2	1.61	0.81
1:AB:455:THR:O	1:AB:459:ILE:HG23	1.81	0.81
1:AC:458:ASN:HD22	1:AO:126:ILE:HG12	1.45	0.81
1:AK:426:ILE:O	1:AK:430:MET:HG3	1.80	0.81
1:AV:325:SER:HA	1:AV:330:GLY:HA3	1.61	0.81
1:AX:68:ALA:HB3	1:AX:456:ILE:HD11	1.62	0.81
1:A4:167:ASP:HA	1:A4:384:ARG:HB2	1.62	0.81
1:A6:184:MET:HA	1:A6:192:ASN:HD21	1.46	0.81
1:A9:426:ILE:O	1:A9:430:MET:HG3	1.80	0.81
1:AC:17:VAL:HG21	1:AO:33:SER:HB2	1.63	0.81
1:AF:410:ASN:HD21	1:AF:414:ILE:HG22	1.46	0.81
1:A8:99:ALA:HB2	1:A8:112:LEU:HD23	1.63	0.81
1:AG:189:ALA:HA	1:AG:192:ASN:OD1	1.81	0.81
1:AI:33:SER:HB2	1:AO:17:VAL:HG21	1.63	0.81
1:AN:149:ILE:HD11	1:AN:157:VAL:HG23	1.63	0.81
1:AX:184:MET:HE1	1:AX:345:ILE:HG12	1.63	0.81
1:A5:249:THR:HG22	1:A5:403:ASN:HD21	1.45	0.81
1:AJ:455:THR:O	1:AJ:459:ILE:HG23	1.79	0.81
1:AV:455:THR:O	1:AV:459:ILE:HG23	1.80	0.81
1:A8:234:PHE:O	1:A8:238:LEU:HD12	1.79	0.81
1:AK:189:ALA:HA	1:AK:192:ASN:OD1	1.81	0.81
1:A1:25:LEU:HD21	1:AQ:505:VAL:HG21	1.63	0.81
1:AG:445:MET:HE2	1:AG:445:MET:HA	1.63	0.81
1:AK:451:GLU:CG	1:AN:122:GLU:HG3	2.10	0.81
1:AM:509:VAL:HG12	1:AM:510:LEU:HD23	1.62	0.81
1:A2:455:THR:O	1:A2:459:ILE:HG23	1.81	0.80
1:A8:224:ILE:HG13	1:A8:244:TYR:HB2	1.62	0.80
1:AM:366:SER:HB2	1:AM:371:HIS:HB2	1.62	0.80
1:AQ:366:SER:HB2	1:AQ:371:HIS:HB2	1.63	0.80
1:AW:167:ASP:HA	1:AW:384:ARG:HB2	1.62	0.80
1:A4:88:ILE:HD11	1:AF:454:THR:HG21	1.64	0.80
1:A5:99:ALA:HA	1:A5:104:GLN:OE1	1.79	0.80
1:A5:211:ILE:HD11	1:A5:238:LEU:HD11	1.64	0.80
1:AJ:451:GLU:HG3	1:AU:122:GLU:HB2	1.62	0.80
1:AL:184:MET:HA	1:AL:192:ASN:HD21	1.46	0.80
1:AM:398:ALA:HB2	1:AM:426:ILE:HD11	1.63	0.80
1:AM:475:ASP:OD1	1:AU:6:ASN:HB2	1.82	0.80
1:AR:33:SER:HB2	1:AU:17:VAL:HG21	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:75:VAL:HG13	1:A1:445:MET:HE3	1.62	0.80
1:A4:33:SER:HB2	1:AF:17:VAL:HG21	1.63	0.80
1:AG:422:LYS:O	1:AG:426:ILE:HD13	1.80	0.80
1:AH:422:LYS:O	1:AH:426:ILE:HD12	1.81	0.80
1:AP:340:THR:HG23	1:AP:341:GLN:HG2	1.63	0.80
1:AQ:25:LEU:HD21	1:AR:505:VAL:HG21	1.63	0.80
1:AR:445:MET:HE2	1:AR:445:MET:HA	1.63	0.80
1:A8:88:ILE:HD11	1:AE:454:THR:HG21	1.62	0.80
1:AS:149:ILE:HD11	1:AS:157:VAL:HG23	1.62	0.80
1:A2:512:LEU:HD23	1:AV:496:SER:HB2	1.63	0.80
1:AQ:6:ASN:HB2	1:AV:475:ASP:OD1	1.81	0.80
1:AB:167:ASP:HA	1:AB:384:ARG:HB2	1.63	0.80
1:AE:445:MET:HA	1:AE:445:MET:HE2	1.62	0.80
1:AM:426:ILE:O	1:AM:430:MET:HG3	1.81	0.80
1:AD:173:ARG:HH12	1:AD:378:GLU:HB3	1.44	0.80
1:AO:132:PHE:HB3	1:AO:137:MET:HE2	1.63	0.80
1:A1:455:THR:O	1:A1:459:ILE:HG23	1.81	0.80
1:A8:445:MET:HE2	1:A8:445:MET:HA	1.63	0.80
1:AA:234:PHE:HB3	1:AA:238:LEU:CD1	2.12	0.80
1:AC:184:MET:HA	1:AC:192:ASN:HD21	1.46	0.80
1:AE:149:ILE:HD11	1:AE:157:VAL:HG23	1.64	0.80
1:AE:279:ASP:HB3	1:AE:301:LEU:HD11	1.63	0.80
1:AF:455:THR:O	1:AF:459:ILE:HG23	1.81	0.80
1:AK:68:ALA:CB	1:AK:456:ILE:HD11	2.11	0.80
1:AL:74:MET:HE3	1:AL:137:MET:HE1	1.63	0.80
1:AC:211:ILE:HD11	1:AC:238:LEU:HD11	1.64	0.80
1:AE:206:VAL:HG13	1:AE:207:ASN:OD1	1.82	0.80
1:AU:74:MET:HG2	1:AU:137:MET:HE1	1.64	0.80
1:AA:99:ALA:HA	1:AA:104:GLN:OE1	1.82	0.79
1:AL:161:ILE:HG23	1:AL:445:MET:HE1	1.64	0.79
1:AO:189:ALA:HA	1:AO:192:ASN:OD1	1.81	0.79
1:A2:133:ASN:ND2	1:AM:50:ILE:HD11	1.97	0.79
1:A2:511:ARG:HH12	1:A2:512:LEU:HD13	1.46	0.79
1:A8:33:SER:HB2	1:AE:17:VAL:HG21	1.64	0.79
1:AO:383:LEU:HA	1:AO:430:MET:CE	2.12	0.79
1:AQ:211:ILE:HD11	1:AQ:238:LEU:HD21	1.61	0.79
1:AT:445:MET:HE2	1:AT:445:MET:HA	1.64	0.79
1:AA:116:ILE:HD13	1:AA:418:VAL:HG21	1.64	0.79
1:AH:325:SER:HA	1:AH:330:GLY:HA3	1.65	0.79
1:AK:455:THR:O	1:AK:459:ILE:HG23	1.81	0.79
1:AN:167:ASP:HA	1:AN:384:ARG:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:234:PHE:HB3	1:AQ:238:LEU:HD11	1.64	0.79
1:AT:312:ILE:HD12	1:AT:312:ILE:H	1.48	0.79
1:A7:249:THR:HG22	1:A7:403:ASN:HD21	1.47	0.79
1:AB:472:GLN:HA	1:AH:4:ARG:HE	1.46	0.79
1:AD:184:MET:HA	1:AD:192:ASN:HD21	1.45	0.79
1:AD:279:ASP:HB3	1:AD:301:LEU:HD11	1.63	0.79
1:AF:122:GLU:HB2	1:AN:451:GLU:HG3	1.65	0.79
1:AR:302:ASP:HB3	1:AR:308:ASN:HD21	1.48	0.79
1:A6:475:ASP:OD1	1:AP:6:ASN:HB2	1.81	0.79
1:AH:383:LEU:HA	1:AH:430:MET:HE2	1.64	0.79
1:AW:249:THR:HG22	1:AW:403:ASN:HD21	1.46	0.79
1:AG:475:ASP:OD1	1:AJ:6:ASN:HB2	1.82	0.79
1:AH:383:LEU:HA	1:AH:430:MET:CE	2.11	0.79
1:AJ:263:THR:HG22	1:AJ:268:GLU:HA	1.64	0.79
1:AJ:505:VAL:HG21	1:AU:25:LEU:HD21	1.64	0.79
1:AS:325:SER:HA	1:AS:330:GLY:HA3	1.64	0.79
1:AT:184:MET:HE1	1:AT:345:ILE:HG12	1.64	0.79
1:AU:445:MET:HE2	1:AU:445:MET:HA	1.65	0.79
1:AU:511:ARG:HH12	1:AU:512:LEU:HD12	1.47	0.79
1:A1:305:GLY:HA3	1:AQ:212:GLU:CD	2.08	0.79
1:A4:99:ALA:HA	1:A4:104:GLN:OE1	1.82	0.79
1:A7:38:ILE:HD12	1:A7:474:ARG:HA	1.63	0.79
1:A8:511:ARG:HH12	1:A8:512:LEU:HD12	1.46	0.79
1:AE:117:GLN:HE21	1:AE:387:ARG:HD2	1.46	0.79
1:AJ:68:ALA:CB	1:AJ:456:ILE:HD11	2.10	0.79
1:AM:325:SER:HA	1:AM:330:GLY:HA3	1.64	0.79
1:AU:206:VAL:HG13	1:AU:207:ASN:OD1	1.83	0.79
1:A2:34:SER:HA	1:AM:17:VAL:HG11	1.64	0.79
1:AD:353:THR:HG23	1:AD:433:SER:HB2	1.65	0.79
1:AK:302:ASP:HB3	1:AK:308:ASN:HD21	1.48	0.79
1:AO:249:THR:HG22	1:AO:403:ASN:HD21	1.47	0.79
1:AO:499:MET:HE1	1:AR:479:ALA:HB1	1.64	0.79
1:AV:20:GLN:HA	1:AV:23:ARG:NH1	1.98	0.79
1:AJ:206:VAL:HG13	1:AJ:207:ASN:OD1	1.82	0.79
1:AL:511:ARG:HH12	1:AL:512:LEU:HD12	1.46	0.79
1:AN:445:MET:HE2	1:AN:445:MET:HA	1.64	0.79
1:A1:234:PHE:HB3	1:A1:238:LEU:HD11	1.63	0.79
1:A5:122:GLU:HG3	1:AD:451:GLU:CG	2.12	0.79
1:A6:149:ILE:HD12	1:A6:455:THR:HG21	1.64	0.79
1:AE:508:ASN:HA	1:AE:511:ARG:HG2	1.65	0.79
1:AP:249:THR:HG22	1:AP:403:ASN:HD21	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:512:LEU:HD23	1:AV:496:SER:CB	2.13	0.78
1:A7:263:THR:HG22	1:A7:268:GLU:HA	1.65	0.78
1:AA:173:ARG:HD3	1:AA:357:ASP:HA	1.62	0.78
1:AE:173:ARG:HH12	1:AE:378:GLU:HB3	1.47	0.78
1:A5:179:PHE:HD1	1:A5:184:MET:HE3	1.46	0.78
1:A7:279:ASP:HB3	1:A7:301:LEU:HD11	1.66	0.78
1:AB:251:GLY:H	1:AB:332:GLY:HA3	1.48	0.78
1:AL:224:ILE:HD13	1:AL:345:ILE:O	1.83	0.78
1:AP:224:ILE:HD13	1:AP:345:ILE:O	1.83	0.78
1:A3:279:ASP:HB3	1:A3:301:LEU:HD11	1.64	0.78
1:A7:99:ALA:HA	1:A7:104:GLN:OE1	1.83	0.78
1:A7:262:LEU:O	1:A7:269:ILE:HG22	1.83	0.78
1:AD:179:PHE:HD1	1:AD:184:MET:HE3	1.48	0.78
1:AG:149:ILE:HD11	1:AG:157:VAL:HG23	1.63	0.78
1:AH:173:ARG:HH12	1:AH:378:GLU:HB3	1.48	0.78
1:AJ:99:ALA:HA	1:AJ:104:GLN:OE1	1.84	0.78
1:A6:122:GLU:HG3	1:AT:451:GLU:HG2	1.65	0.78
1:A8:126:ILE:HG12	1:AE:458:ASN:HD22	1.49	0.78
1:AI:496:SER:HB2	1:AO:512:LEU:HD23	1.66	0.78
1:AK:17:VAL:HG11	1:AN:34:SER:HA	1.64	0.78
1:AK:117:GLN:HE22	1:AK:387:ARG:HD2	1.49	0.78
1:AK:167:ASP:HA	1:AK:384:ARG:HB2	1.65	0.78
1:AL:99:ALA:HA	1:AL:104:GLN:OE1	1.83	0.78
1:A5:173:ARG:HD3	1:A5:357:ASP:HA	1.65	0.78
1:A8:249:THR:HG22	1:A8:403:ASN:HD21	1.49	0.78
1:A9:325:SER:HA	1:A9:330:GLY:HA3	1.65	0.78
1:AC:263:THR:HG22	1:AC:268:GLU:HA	1.65	0.78
1:AE:149:ILE:HD12	1:AE:455:THR:HG21	1.65	0.78
1:AF:167:ASP:HA	1:AF:384:ARG:HB2	1.66	0.78
1:AF:472:GLN:HA	1:AS:4:ARG:NH1	1.98	0.78
1:AK:445:MET:HE2	1:AK:445:MET:HA	1.64	0.78
1:AQ:122:GLU:HG3	1:AR:451:GLU:HG2	1.65	0.78
1:AX:206:VAL:HG13	1:AX:207:ASN:OD1	1.84	0.78
1:AN:211:ILE:HD11	1:AN:238:LEU:HD21	1.63	0.78
1:AP:116:ILE:HD12	1:AP:418:VAL:HG21	1.64	0.78
1:AQ:99:ALA:CB	1:AQ:112:LEU:HD22	2.11	0.78
1:AV:234:PHE:HB3	1:AV:238:LEU:HD11	1.65	0.78
1:AV:249:THR:HG22	1:AV:403:ASN:HD21	1.48	0.78
1:AX:279:ASP:HB3	1:AX:301:LEU:HD11	1.66	0.78
1:A4:99:ALA:HB2	1:A4:112:LEU:CD2	2.13	0.78
1:AQ:173:ARG:HH12	1:AQ:378:GLU:HB3	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:189:ALA:HA	1:AR:192:ASN:OD1	1.83	0.78
1:AT:206:VAL:HG13	1:AT:207:ASN:OD1	1.82	0.78
1:A4:472:GLN:HA	1:AT:4:ARG:NH1	1.99	0.78
1:A7:74:MET:HB3	1:A7:137:MET:HE1	1.65	0.78
1:A9:167:ASP:HA	1:A9:384:ARG:HB2	1.65	0.78
1:AD:263:THR:HG22	1:AD:268:GLU:HA	1.65	0.78
1:AJ:249:THR:HG22	1:AJ:403:ASN:HD21	1.48	0.78
1:AL:249:THR:HG22	1:AL:403:ASN:HD21	1.49	0.78
1:AM:103:GLY:CA	1:AU:74:MET:HE1	2.13	0.78
1:AU:249:THR:HG22	1:AU:403:ASN:HD21	1.49	0.78
1:AX:149:ILE:HD11	1:AX:157:VAL:HG23	1.65	0.78
1:A9:99:ALA:HA	1:A9:104:GLN:OE1	1.84	0.78
1:AE:426:ILE:O	1:AE:430:MET:HG3	1.83	0.78
1:AR:366:SER:HB2	1:AR:371:HIS:HB2	1.66	0.78
1:AS:445:MET:HA	1:AS:445:MET:HE2	1.65	0.78
1:A6:398:ALA:HB2	1:A6:426:ILE:HD11	1.65	0.78
1:A8:167:ASP:HA	1:A8:384:ARG:HB2	1.66	0.78
1:AC:173:ARG:HH12	1:AC:378:GLU:HB3	1.46	0.78
1:AD:319:VAL:HG12	1:AD:342:HIS:CE1	2.19	0.78
1:AI:510:LEU:HD12	1:AQ:490:ILE:HG23	1.64	0.78
1:AJ:293:ASP:OD2	1:AX:110:ARG:HD3	1.84	0.78
1:A6:184:MET:HE1	1:A6:345:ILE:CG1	2.13	0.77
1:A8:184:MET:HA	1:A8:192:ASN:HD21	1.48	0.77
1:AG:4:ARG:HG2	1:AW:475:ASP:HB3	1.66	0.77
1:AG:174:MET:HE1	1:AG:398:ALA:HB2	1.65	0.77
1:AG:325:SER:HA	1:AG:330:GLY:HA3	1.65	0.77
1:AK:99:ALA:HA	1:AK:104:GLN:OE1	1.84	0.77
1:AN:249:THR:HG22	1:AN:403:ASN:HD21	1.49	0.77
1:AO:184:MET:HE1	1:AO:345:ILE:HG12	1.66	0.77
1:AT:234:PHE:HB3	1:AT:238:LEU:CD1	2.15	0.77
1:A2:149:ILE:HD11	1:A2:157:VAL:HG23	1.66	0.77
1:A6:366:SER:HB2	1:A6:371:HIS:HB2	1.64	0.77
1:AC:224:ILE:HD13	1:AC:345:ILE:O	1.84	0.77
1:AK:97:VAL:HG22	1:AK:428:MET:HE2	1.66	0.77
1:A7:174:MET:HE1	1:A7:398:ALA:HB2	1.66	0.77
1:A8:211:ILE:HD11	1:A8:238:LEU:HD21	1.65	0.77
1:AE:511:ARG:NH1	1:AE:512:LEU:HD13	1.96	0.77
1:AX:99:ALA:HA	1:AX:104:GLN:OE1	1.84	0.77
1:A3:110:ARG:HD3	1:A8:293:ASP:OD2	1.84	0.77
1:AC:99:ALA:HA	1:AC:104:GLN:OE1	1.84	0.77
1:AK:249:THR:HG22	1:AK:403:ASN:HD21	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:184:MET:HE1	1:AN:345:ILE:CG1	2.14	0.77
1:AP:250:GLY:O	1:AP:306:ARG:HD2	1.85	0.77
1:AP:302:ASP:HB3	1:AP:308:ASN:HD21	1.46	0.77
1:AQ:305:GLY:HA3	1:AR:212:GLU:CD	2.09	0.77
1:AS:451:GLU:CG	1:AT:122:GLU:HG3	2.15	0.77
1:A5:445:MET:HE2	1:A5:445:MET:HA	1.65	0.77
1:A6:305:GLY:HA3	1:AT:212:GLU:CD	2.10	0.77
1:A7:224:ILE:HD11	1:A7:246:VAL:CG2	2.14	0.77
1:AI:68:ALA:HB3	1:AI:456:ILE:HD11	1.66	0.77
1:AI:325:SER:HA	1:AI:330:GLY:HA3	1.66	0.77
1:AN:173:ARG:HD3	1:AN:357:ASP:HA	1.65	0.77
1:AS:99:ALA:HA	1:AS:104:GLN:OE1	1.85	0.77
1:AU:149:ILE:HD12	1:AU:455:THR:HG21	1.67	0.77
1:AV:371:HIS:HB3	1:AV:374:GLN:HG3	1.67	0.77
1:A2:122:GLU:HG3	1:AM:451:GLU:CG	2.14	0.77
1:A5:480:GLU:HB2	1:AE:15:HIS:CE1	2.18	0.77
1:A7:505:VAL:HG21	1:AJ:25:LEU:HD21	1.65	0.77
1:AW:325:SER:HA	1:AW:330:GLY:HA3	1.65	0.77
1:A8:234:PHE:HB3	1:A8:238:LEU:HD11	1.66	0.77
1:A9:305:GLY:HA3	1:AH:212:GLU:CD	2.10	0.77
1:AH:305:GLY:HA3	1:AI:212:GLU:CD	2.09	0.77
1:AK:458:ASN:ND2	1:AN:126:ILE:HG12	2.00	0.77
1:AQ:126:ILE:HG12	1:AR:458:ASN:ND2	2.00	0.77
1:A8:211:ILE:HD12	1:A8:234:PHE:HD2	1.49	0.77
1:A9:454:THR:HG21	1:AA:88:ILE:HD11	1.67	0.77
1:AG:89:LEU:HA	1:AG:92:ILE:CD1	2.15	0.77
1:A3:511:ARG:NH1	1:A3:512:LEU:HD13	1.96	0.77
1:A5:174:MET:HE1	1:A5:398:ALA:HB2	1.65	0.77
1:A6:455:THR:O	1:A6:459:ILE:HG12	1.85	0.77
1:AH:99:ALA:HA	1:AH:104:GLN:OE1	1.85	0.77
1:AH:366:SER:HB2	1:AH:371:HIS:HB2	1.65	0.77
1:AI:122:GLU:HG3	1:AO:451:GLU:HG2	1.67	0.77
1:AK:82:MET:HE1	1:AK:441:ILE:HG22	1.67	0.77
1:AN:325:SER:HA	1:AN:330:GLY:HA3	1.66	0.77
1:AN:366:SER:HB2	1:AN:371:HIS:HB2	1.66	0.77
1:AR:423:GLY:O	1:AR:427:VAL:HG23	1.85	0.77
1:AX:74:MET:HB3	1:AX:137:MET:HE1	1.66	0.77
1:A7:184:MET:HA	1:A7:192:ASN:HD21	1.49	0.77
1:AB:120:LEU:HD21	1:AB:383:LEU:HG	1.67	0.77
1:AG:173:ARG:HD3	1:AG:357:ASP:HA	1.66	0.77
1:AL:68:ALA:HB3	1:AL:456:ILE:HD11	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:249:THR:HG22	1:AS:403:ASN:HD21	1.49	0.77
1:AU:89:LEU:HA	1:AU:92:ILE:CD1	2.15	0.77
1:A4:249:THR:HG22	1:A4:403:ASN:HD21	1.50	0.76
1:AD:264:ILE:HG23	1:AD:319:VAL:HG23	1.66	0.76
1:AE:99:ALA:HA	1:AE:104:GLN:OE1	1.85	0.76
1:AG:122:GLU:HG3	1:AP:451:GLU:CG	2.15	0.76
1:AG:366:SER:HB2	1:AG:371:HIS:HB2	1.65	0.76
1:AL:426:ILE:O	1:AL:430:MET:HG3	1.84	0.76
1:AR:78:ALA:HB2	1:AR:137:MET:CE	2.15	0.76
1:A3:17:VAL:HG21	1:AL:33:SER:HB2	1.67	0.76
1:A5:149:ILE:HD11	1:A5:157:VAL:HG23	1.68	0.76
1:A9:93:LYS:HG2	1:AK:60:ASN:HD21	1.49	0.76
1:AK:325:SER:HA	1:AK:330:GLY:HA3	1.67	0.76
1:AL:173:ARG:HD3	1:AL:357:ASP:HA	1.66	0.76
1:A4:303:ILE:HA	1:AF:234:PHE:CZ	2.20	0.76
1:A9:505:VAL:HG21	1:AA:25:LEU:HD21	1.67	0.76
1:AG:173:ARG:HH12	1:AG:378:GLU:HB3	1.50	0.76
1:AI:366:SER:HB2	1:AI:371:HIS:HB2	1.65	0.76
1:AQ:203:VAL:HG21	1:AQ:209:TYR:HD1	1.49	0.76
1:AS:167:ASP:HA	1:AS:384:ARG:HB2	1.67	0.76
1:AW:117:GLN:HE22	1:AW:387:ARG:HD2	1.49	0.76
1:A5:184:MET:HA	1:A5:192:ASN:HD21	1.49	0.76
1:A5:293:ASP:OD2	1:AE:110:ARG:HD3	1.85	0.76
1:A8:99:ALA:HA	1:A8:104:GLN:OE1	1.84	0.76
1:A8:173:ARG:HH12	1:A8:378:GLU:HB3	1.51	0.76
1:AB:74:MET:HB3	1:AB:137:MET:HE1	1.67	0.76
1:AD:99:ALA:HA	1:AD:104:GLN:OE1	1.83	0.76
1:AK:173:ARG:HH12	1:AK:378:GLU:HB3	1.48	0.76
1:AL:179:PHE:HD1	1:AL:184:MET:HE3	1.49	0.76
1:AO:99:ALA:HA	1:AO:104:GLN:OE1	1.85	0.76
1:AR:224:ILE:HG13	1:AR:244:TYR:HB2	1.67	0.76
1:A1:325:SER:HA	1:A1:330:GLY:HA3	1.67	0.76
1:A2:249:THR:HG22	1:A2:403:ASN:HD21	1.49	0.76
1:A3:319:VAL:HG12	1:A3:342:HIS:CE1	2.20	0.76
1:AC:249:THR:HG22	1:AC:403:ASN:HD21	1.49	0.76
1:AP:206:VAL:HG13	1:AP:207:ASN:OD1	1.85	0.76
1:AQ:184:MET:HA	1:AQ:192:ASN:HD21	1.50	0.76
1:A1:386:VAL:HG22	1:A1:427:VAL:HG22	1.68	0.76
1:A3:99:ALA:HA	1:A3:104:GLN:OE1	1.85	0.76
1:A4:325:SER:HA	1:A4:330:GLY:HA3	1.67	0.76
1:A6:505:VAL:HG21	1:AW:25:LEU:HD21	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:89:LEU:HA	1:AJ:92:ILE:CD1	2.16	0.76
1:AL:89:LEU:HA	1:AL:92:ILE:CD1	2.15	0.76
1:A3:262:LEU:O	1:A3:269:ILE:HG22	1.85	0.76
1:A6:234:PHE:HB3	1:A6:238:LEU:CD1	2.15	0.76
1:AG:60:ASN:HD21	1:AW:93:LYS:HG2	1.49	0.76
1:AM:249:THR:HG22	1:AM:403:ASN:HD21	1.51	0.76
1:AQ:496:SER:HB2	1:AR:512:LEU:HD23	1.68	0.76
1:AV:99:ALA:HB2	1:AV:112:LEU:CD2	2.14	0.76
1:A1:110:ARG:HD3	1:AV:293:ASP:OD2	1.86	0.76
1:A5:89:LEU:HA	1:A5:92:ILE:HD13	1.66	0.76
1:AE:89:LEU:HA	1:AE:92:ILE:CD1	2.15	0.76
1:AI:496:SER:CB	1:AO:512:LEU:HD23	2.16	0.76
1:AM:83:ASP:HB2	1:AM:442:ARG:NH2	2.01	0.76
1:AM:173:ARG:HH12	1:AM:378:GLU:HB3	1.50	0.76
1:AS:212:GLU:CD	1:AT:305:GLY:HA3	2.11	0.76
1:AW:99:ALA:HA	1:AW:104:GLN:OE1	1.86	0.76
1:AX:426:ILE:O	1:AX:430:MET:HG3	1.85	0.76
1:A6:212:GLU:CD	1:AW:305:GLY:HA3	2.11	0.76
1:AB:82:MET:HE1	1:AB:445:MET:SD	2.25	0.76
1:AM:455:THR:O	1:AM:459:ILE:HG23	1.85	0.76
1:AS:89:LEU:HA	1:AS:92:ILE:CD1	2.16	0.76
1:AS:149:ILE:HD12	1:AS:455:THR:HG21	1.66	0.76
1:AU:99:ALA:HA	1:AU:104:GLN:OE1	1.86	0.76
1:A2:25:LEU:CD2	1:AM:505:VAL:HG21	2.16	0.76
1:A2:366:SER:HB2	1:A2:371:HIS:HB2	1.68	0.76
1:A7:149:ILE:HD11	1:A7:157:VAL:HG23	1.68	0.76
1:AI:302:ASP:HB3	1:AI:308:ASN:HD21	1.51	0.76
1:AL:149:ILE:HD11	1:AL:157:VAL:HG23	1.67	0.76
1:AQ:167:ASP:HA	1:AQ:384:ARG:HB2	1.68	0.76
1:A1:25:LEU:CD2	1:AQ:505:VAL:HG21	2.16	0.75
1:A2:89:LEU:HA	1:A2:92:ILE:CD1	2.14	0.75
1:A4:89:LEU:HA	1:A4:92:ILE:CD1	2.16	0.75
1:A8:212:GLU:CD	1:AS:305:GLY:HA3	2.09	0.75
1:AF:366:SER:HB2	1:AF:371:HIS:HB2	1.65	0.75
1:AG:212:GLU:CD	1:AM:305:GLY:HA3	2.11	0.75
1:AH:122:GLU:HG3	1:AI:451:GLU:CG	2.15	0.75
1:AH:249:THR:HG22	1:AH:403:ASN:HD21	1.51	0.75
1:AJ:458:ASN:HD22	1:AU:126:ILE:HG12	1.51	0.75
1:AK:511:ARG:HH12	1:AK:512:LEU:HD12	1.51	0.75
1:AQ:122:GLU:HG3	1:AR:451:GLU:CG	2.15	0.75
1:AU:173:ARG:HH12	1:AU:378:GLU:HB3	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:25:LEU:HD21	1:AM:505:VAL:HG21	1.68	0.75
1:A2:74:MET:HB3	1:A2:137:MET:HE1	1.68	0.75
1:AE:263:THR:HG22	1:AE:268:GLU:HA	1.68	0.75
1:AG:455:THR:O	1:AG:459:ILE:HG23	1.85	0.75
1:AJ:499:MET:HE1	1:AP:479:ALA:HB1	1.66	0.75
1:AT:89:LEU:HA	1:AT:92:ILE:CD1	2.16	0.75
1:AV:173:ARG:HD3	1:AV:357:ASP:HA	1.67	0.75
1:A6:325:SER:HA	1:A6:330:GLY:HA3	1.66	0.75
1:AB:475:ASP:HB3	1:AH:4:ARG:HG2	1.67	0.75
1:AM:93:LYS:HG2	1:AU:60:ASN:HD21	1.51	0.75
1:AP:366:SER:HB2	1:AP:371:HIS:HB2	1.66	0.75
1:AU:149:ILE:HD11	1:AU:157:VAL:HG23	1.68	0.75
1:AU:501:GLN:O	1:AU:505:VAL:HG13	1.86	0.75
1:AX:455:THR:O	1:AX:459:ILE:HG12	1.85	0.75
1:A9:25:LEU:HD21	1:AH:505:VAL:HG21	1.68	0.75
1:AO:302:ASP:HB3	1:AO:308:ASN:ND2	2.01	0.75
1:AQ:88:ILE:HD11	1:AR:454:THR:HG21	1.69	0.75
1:AQ:325:SER:HA	1:AQ:330:GLY:HA3	1.67	0.75
1:AS:366:SER:HB2	1:AS:371:HIS:HB2	1.67	0.75
1:AS:501:GLN:O	1:AS:505:VAL:HG13	1.87	0.75
1:AW:302:ASP:HB3	1:AW:308:ASN:HD21	1.52	0.75
1:A1:184:MET:HE1	1:A1:345:ILE:CG1	2.16	0.75
1:A6:99:ALA:HA	1:A6:104:GLN:OE1	1.86	0.75
1:AH:234:PHE:HB3	1:AH:238:LEU:CD1	2.16	0.75
1:AJ:149:ILE:HD11	1:AJ:157:VAL:HG23	1.68	0.75
1:AO:83:ASP:HB2	1:AO:442:ARG:NH2	2.02	0.75
1:A3:117:GLN:HE21	1:A3:387:ARG:HD2	1.51	0.75
1:A3:512:LEU:HD23	1:AL:496:SER:OG	1.87	0.75
1:A5:496:SER:OG	1:AD:512:LEU:HD23	1.87	0.75
1:A6:122:GLU:HG3	1:AT:451:GLU:CG	2.16	0.75
1:A6:126:ILE:HG12	1:AT:458:ASN:HD22	1.52	0.75
1:AG:122:GLU:HG3	1:AP:451:GLU:HG2	1.69	0.75
1:AP:89:LEU:HA	1:AP:92:ILE:HD13	1.68	0.75
1:AX:120:LEU:HD11	1:AX:383:LEU:HG	1.67	0.75
1:AF:149:ILE:HD11	1:AF:157:VAL:HG23	1.68	0.75
1:A1:99:ALA:HB2	1:A1:112:LEU:CD2	2.13	0.75
1:A2:149:ILE:HD12	1:A2:455:THR:HG21	1.69	0.75
1:A5:173:ARG:HH12	1:A5:378:GLU:HB3	1.51	0.75
1:A7:511:ARG:NH1	1:A7:512:LEU:HG	2.02	0.75
1:A8:501:GLN:O	1:A8:505:VAL:HG13	1.87	0.75
1:A9:505:VAL:HG21	1:AA:25:LEU:CD2	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:167:ASP:HA	1:AA:384:ARG:HB2	1.68	0.75
1:AC:512:LEU:HD23	1:AO:496:SER:HB2	1.69	0.75
1:AJ:173:ARG:HD3	1:AJ:357:ASP:HA	1.68	0.75
1:AQ:83:ASP:HB2	1:AQ:442:ARG:NH2	2.01	0.75
1:AR:99:ALA:HB2	1:AR:112:LEU:CD2	2.17	0.75
1:AX:264:ILE:HG22	1:AX:319:VAL:HB	1.68	0.75
1:A1:88:ILE:CD1	1:AQ:454:THR:HG21	2.14	0.75
1:A9:233:ARG:HG2	1:A9:234:PHE:CD2	2.22	0.75
1:AA:89:LEU:HA	1:AA:92:ILE:CD1	2.17	0.75
1:AC:184:MET:HE1	1:AC:345:ILE:CG1	2.17	0.75
1:AF:173:ARG:HH12	1:AF:378:GLU:HB3	1.52	0.75
1:AH:82:MET:HE1	1:AH:441:ILE:HG22	1.68	0.75
1:AL:4:ARG:NH1	1:AT:472:GLN:HA	2.02	0.75
1:AU:184:MET:HE1	1:AU:345:ILE:CG1	2.15	0.75
1:AX:249:THR:HG22	1:AX:403:ASN:HD21	1.52	0.75
1:A1:173:ARG:HH12	1:A1:378:GLU:HB3	1.52	0.74
1:A2:212:GLU:CD	1:AV:305:GLY:HA3	2.11	0.74
1:A9:17:VAL:HG21	1:AA:33:SER:HB2	1.69	0.74
1:AG:167:ASP:HA	1:AG:384:ARG:HB2	1.69	0.74
1:AK:173:ARG:HD3	1:AK:357:ASP:HA	1.68	0.74
1:AP:99:ALA:HA	1:AP:104:GLN:OE1	1.87	0.74
1:AR:99:ALA:HA	1:AR:104:GLN:OE1	1.87	0.74
1:A1:17:VAL:HG21	1:AB:33:SER:HB2	1.69	0.74
1:A3:264:ILE:HG22	1:A3:319:VAL:CG2	2.10	0.74
1:A6:505:VAL:HG21	1:AW:25:LEU:CD2	2.18	0.74
1:A7:173:ARG:HD3	1:A7:357:ASP:HA	1.68	0.74
1:A9:110:ARG:HD3	1:AB:293:ASP:OD2	1.86	0.74
1:AA:120:LEU:HD21	1:AA:383:LEU:HG	1.69	0.74
1:AC:224:ILE:HD11	1:AC:246:VAL:CG2	2.17	0.74
1:AI:501:GLN:O	1:AI:505:VAL:HG13	1.88	0.74
1:AK:366:SER:HB2	1:AK:371:HIS:HB2	1.66	0.74
1:AK:501:GLN:O	1:AK:505:VAL:HG13	1.87	0.74
1:A5:451:GLU:CG	1:AK:122:GLU:HG3	2.17	0.74
1:A9:234:PHE:HB3	1:A9:238:LEU:CD1	2.17	0.74
1:AA:455:THR:O	1:AA:459:ILE:HG23	1.87	0.74
1:AB:366:SER:HB2	1:AB:371:HIS:HB2	1.68	0.74
1:AF:34:SER:HA	1:AN:17:VAL:HG11	1.68	0.74
1:AL:458:ASN:HD22	1:AP:126:ILE:HG12	1.51	0.74
1:AO:325:SER:HA	1:AO:330:GLY:HA3	1.67	0.74
1:AS:173:ARG:HD3	1:AS:357:ASP:HA	1.69	0.74
1:A1:212:GLU:CD	1:AB:305:GLY:HA3	2.11	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:122:GLU:HG3	1:AM:451:GLU:HG3	1.70	0.74
1:A3:263:THR:HG22	1:A3:268:GLU:HA	1.69	0.74
1:A4:25:LEU:CD2	1:AF:505:VAL:HG21	2.18	0.74
1:A7:184:MET:HE1	1:A7:345:ILE:CG1	2.17	0.74
1:AD:501:GLN:O	1:AD:505:VAL:HG13	1.88	0.74
1:AF:25:LEU:CD2	1:AN:505:VAL:HG21	2.17	0.74
1:AF:325:SER:HA	1:AF:330:GLY:HA3	1.68	0.74
1:AT:78:ALA:HB2	1:AT:137:MET:HE3	1.68	0.74
1:A2:451:GLU:HG3	1:AV:122:GLU:HB2	1.68	0.74
1:AC:167:ASP:HA	1:AC:384:ARG:HB2	1.70	0.74
1:AF:249:THR:HG22	1:AF:403:ASN:HD21	1.52	0.74
1:AK:89:LEU:HA	1:AK:92:ILE:CD1	2.17	0.74
1:AK:149:ILE:HD11	1:AK:157:VAL:HG23	1.68	0.74
1:AU:366:SER:HB2	1:AU:371:HIS:HB2	1.69	0.74
1:AV:89:LEU:HA	1:AV:92:ILE:CD1	2.17	0.74
1:AW:459:ILE:HA	1:AW:462:THR:CG2	2.18	0.74
1:A1:89:LEU:HA	1:A1:92:ILE:CD1	2.17	0.74
1:AA:184:MET:HE1	1:AA:345:ILE:CG1	2.16	0.74
1:AB:234:PHE:HB3	1:AB:238:LEU:CD1	2.17	0.74
1:AD:249:THR:HG22	1:AD:403:ASN:HD21	1.52	0.74
1:AD:455:THR:O	1:AD:459:ILE:HG23	1.86	0.74
1:AI:122:GLU:HG3	1:AO:451:GLU:CG	2.17	0.74
1:AJ:302:ASP:HB3	1:AJ:308:ASN:HD21	1.53	0.74
1:AS:251:GLY:N	1:AS:332:GLY:HA3	2.03	0.74
1:A3:348:LEU:HD21	1:A3:350:LEU:HD21	1.68	0.74
1:A9:212:GLU:CD	1:AA:305:GLY:HA3	2.13	0.74
1:AB:99:ALA:HB2	1:AB:112:LEU:CD2	2.14	0.74
1:AE:173:ARG:HD3	1:AE:357:ASP:HA	1.69	0.74
1:AE:501:GLN:O	1:AE:505:VAL:HG12	1.88	0.74
1:AF:251:GLY:N	1:AF:332:GLY:HA3	2.03	0.74
1:AH:293:ASP:OD2	1:AK:110:ARG:HD3	1.88	0.74
1:AM:510:LEU:HD12	1:AW:490:ILE:HG22	1.69	0.74
1:AR:426:ILE:O	1:AR:430:MET:HG3	1.87	0.74
1:AX:106:LEU:HD12	1:AX:107:GLU:N	2.01	0.74
1:A2:234:PHE:CZ	1:AV:303:ILE:HA	2.22	0.74
1:A3:226:ALA:O	1:A3:230:ILE:HG23	1.88	0.74
1:A4:305:GLY:HA3	1:AF:212:GLU:CD	2.13	0.74
1:A4:325:SER:CA	1:A4:330:GLY:HA3	2.18	0.74
1:A9:451:GLU:O	1:A9:455:THR:HG22	1.87	0.74
1:AB:249:THR:HG22	1:AB:403:ASN:HD21	1.53	0.74
1:AG:305:GLY:HA3	1:AP:212:GLU:CD	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:83:ASP:HB2	1:AK:442:ARG:NH2	2.02	0.74
1:AO:226:ALA:O	1:AO:230:ILE:HG23	1.87	0.74
1:AV:99:ALA:CB	1:AV:112:LEU:HD22	2.18	0.74
1:A1:179:PHE:HD1	1:A1:184:MET:HE3	1.53	0.74
1:A1:487:LYS:HE2	1:AH:6:ASN:O	1.87	0.74
1:A2:98:GLN:HG2	1:A2:112:LEU:HD21	1.70	0.74
1:A3:211:ILE:CD1	1:A3:238:LEU:HD11	2.17	0.74
1:A6:167:ASP:HA	1:A6:384:ARG:HB2	1.70	0.74
1:AD:6:ASN:HB2	1:AI:475:ASP:OD1	1.88	0.74
1:AP:501:GLN:O	1:AP:505:VAL:HG13	1.88	0.74
1:AS:461:VAL:HG11	1:AT:80:LYS:HB3	1.70	0.74
1:AU:302:ASP:HB3	1:AU:308:ASN:HD21	1.52	0.74
1:AW:325:SER:CA	1:AW:330:GLY:HA3	2.18	0.74
1:A2:234:PHE:HB3	1:A2:238:LEU:CD1	2.18	0.74
1:A9:366:SER:HB2	1:A9:371:HIS:HB2	1.68	0.74
1:AD:224:ILE:HD11	1:AD:246:VAL:CG2	2.17	0.74
1:AF:496:SER:OG	1:AN:512:LEU:HD23	1.88	0.74
1:AR:83:ASP:HB2	1:AR:442:ARG:NH2	2.03	0.74
1:AT:116:ILE:HD12	1:AT:418:VAL:HG21	1.69	0.74
1:A5:149:ILE:HD12	1:A5:455:THR:HG21	1.70	0.73
1:AC:25:LEU:CD2	1:AX:505:VAL:HG21	2.17	0.73
1:AF:83:ASP:HB2	1:AF:442:ARG:NH2	2.03	0.73
1:AH:184:MET:HE1	1:AH:345:ILE:HG12	1.70	0.73
1:AS:116:ILE:HD12	1:AS:418:VAL:HG21	1.69	0.73
1:AW:366:SER:HB2	1:AW:371:HIS:HB2	1.69	0.73
1:A5:451:GLU:HG2	1:AK:122:GLU:HG3	1.70	0.73
1:A7:38:ILE:CD1	1:A7:474:ARG:HA	2.17	0.73
1:A9:249:THR:HG22	1:A9:403:ASN:HD21	1.51	0.73
1:AD:146:GLU:HG2	1:AI:421:LEU:HD21	1.70	0.73
1:AI:499:MET:CE	1:AQ:479:ALA:HB1	2.18	0.73
1:AN:224:ILE:HG13	1:AN:244:TYR:HB2	1.71	0.73
1:AO:263:THR:HG22	1:AO:268:GLU:HA	1.70	0.73
1:AP:203:VAL:HG21	1:AP:209:TYR:HD1	1.53	0.73
1:AQ:234:PHE:HB3	1:AQ:238:LEU:CD1	2.17	0.73
1:AT:68:ALA:HB3	1:AT:456:ILE:HD11	1.70	0.73
1:AT:82:MET:CE	1:AT:441:ILE:HG22	2.15	0.73
1:AU:386:VAL:HG22	1:AU:427:VAL:HG22	1.68	0.73
1:AX:167:ASP:HA	1:AX:384:ARG:HB2	1.70	0.73
1:A4:173:ARG:HD3	1:A4:357:ASP:HA	1.70	0.73
1:A5:501:GLN:O	1:A5:505:VAL:HG13	1.88	0.73
1:A7:89:LEU:HA	1:A7:92:ILE:CD1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:508:ASN:CA	1:A9:511:ARG:HG2	2.16	0.73
1:AA:325:SER:HA	1:AA:330:GLY:HA3	1.69	0.73
1:AT:366:SER:HB2	1:AT:371:HIS:HB2	1.68	0.73
1:A1:83:ASP:HB2	1:A1:442:ARG:NH2	2.03	0.73
1:A1:184:MET:HA	1:A1:192:ASN:HD21	1.52	0.73
1:A2:303:ILE:HA	1:AM:234:PHE:CZ	2.23	0.73
1:A6:173:ARG:HH12	1:A6:378:GLU:HB3	1.54	0.73
1:AD:99:ALA:HB2	1:AD:112:LEU:HD22	1.69	0.73
1:AF:99:ALA:HB2	1:AF:112:LEU:CD2	2.14	0.73
1:AF:325:SER:CA	1:AF:330:GLY:HA3	2.19	0.73
1:AO:366:SER:HB2	1:AO:371:HIS:HB2	1.70	0.73
1:AP:325:SER:HA	1:AP:330:GLY:HA3	1.68	0.73
1:AX:506:GLN:O	1:AX:509:VAL:HG12	1.88	0.73
1:A2:325:SER:CA	1:A2:330:GLY:HA3	2.18	0.73
1:A4:426:ILE:O	1:A4:430:MET:HG3	1.87	0.73
1:A9:302:ASP:HB3	1:A9:308:ASN:ND2	2.04	0.73
1:A9:455:THR:O	1:A9:459:ILE:HG23	1.88	0.73
1:AD:149:ILE:HD11	1:AD:157:VAL:HG23	1.70	0.73
1:AF:302:ASP:HB3	1:AF:308:ASN:HD21	1.53	0.73
1:AI:173:ARG:HH12	1:AI:378:GLU:HB3	1.52	0.73
1:AN:99:ALA:HA	1:AN:104:GLN:OE1	1.89	0.73
1:AR:249:THR:HG22	1:AR:403:ASN:HD21	1.52	0.73
1:AU:68:ALA:HB3	1:AU:456:ILE:CD1	2.16	0.73
1:AW:226:ALA:O	1:AW:230:ILE:HG23	1.88	0.73
1:A1:383:LEU:HA	1:A1:430:MET:HE2	1.71	0.73
1:AF:99:ALA:HA	1:AF:104:GLN:OE1	1.87	0.73
1:AP:251:GLY:N	1:AP:332:GLY:HA3	2.04	0.73
1:AQ:157:VAL:HG11	1:AQ:452:LEU:HD21	1.70	0.73
1:AT:383:LEU:HA	1:AT:430:MET:HE3	1.69	0.73
1:AW:173:ARG:HD3	1:AW:357:ASP:HA	1.71	0.73
1:A5:305:GLY:HA3	1:AD:212:GLU:CD	2.14	0.73
1:A8:303:ILE:HG13	1:AE:234:PHE:CE2	2.24	0.73
1:A8:496:SER:OG	1:AE:512:LEU:HD23	1.88	0.73
1:AE:249:THR:HG22	1:AE:403:ASN:HD21	1.53	0.73
1:AG:92:ILE:CG2	1:AG:116:ILE:HG23	2.18	0.73
1:AG:512:LEU:HD23	1:AM:496:SER:OG	1.89	0.73
1:AI:173:ARG:HD3	1:AI:357:ASP:HA	1.70	0.73
1:AN:173:ARG:HH12	1:AN:378:GLU:HB3	1.54	0.73
1:AP:173:ARG:HD3	1:AP:357:ASP:HA	1.70	0.73
1:AT:325:SER:HA	1:AT:330:GLY:HA3	1.70	0.73
1:AX:184:MET:HE1	1:AX:345:ILE:CG1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:511:ARG:NH1	1:AX:512:LEU:HG	2.03	0.73
1:A1:249:THR:HG22	1:A1:403:ASN:HD21	1.51	0.73
1:A9:25:LEU:CD2	1:AH:505:VAL:HG21	2.19	0.73
1:AA:70:ASP:O	1:AA:74:MET:HG3	1.88	0.73
1:AA:366:SER:HB2	1:AA:371:HIS:HB2	1.68	0.73
1:AC:303:ILE:HA	1:AX:234:PHE:CE2	2.24	0.73
1:AO:150:GLY:HA3	1:AO:155:THR:HB	1.71	0.73
1:AP:83:ASP:HB2	1:AP:442:ARG:NH2	2.04	0.73
1:AQ:89:LEU:HA	1:AQ:92:ILE:CD1	2.18	0.73
1:AQ:325:SER:CA	1:AQ:330:GLY:HA3	2.19	0.73
1:AS:511:ARG:HH12	1:AS:512:LEU:HD12	1.53	0.73
1:AU:203:VAL:HG21	1:AU:209:TYR:HD2	1.51	0.73
1:AV:291:VAL:HG23	1:AV:295:THR:CG2	2.18	0.73
1:A3:184:MET:HE1	1:A3:345:ILE:HD11	1.70	0.73
1:A6:249:THR:HG22	1:A6:403:ASN:HD21	1.54	0.73
1:A8:116:ILE:HD12	1:A8:418:VAL:HG21	1.70	0.73
1:AJ:469:ALA:O	1:AJ:473:ILE:HG22	1.89	0.73
1:AL:149:ILE:HD12	1:AL:455:THR:HG21	1.70	0.73
1:AP:279:ASP:HB3	1:AP:301:LEU:HD11	1.70	0.73
1:AR:68:ALA:HB3	1:AR:456:ILE:HD11	1.70	0.73
1:AR:173:ARG:HD3	1:AR:357:ASP:HA	1.69	0.73
1:AU:173:ARG:HD3	1:AU:357:ASP:HA	1.69	0.73
1:A1:454:THR:HG21	1:AB:88:ILE:HD11	1.71	0.73
1:A1:512:LEU:HD23	1:AB:496:SER:OG	1.89	0.73
1:A5:5:ILE:HD13	1:AI:490:ILE:HG21	1.70	0.73
1:A9:512:LEU:HD23	1:AA:496:SER:OG	1.88	0.73
1:AF:89:LEU:HA	1:AF:92:ILE:CD1	2.19	0.73
1:AH:122:GLU:HG3	1:AI:451:GLU:HG2	1.69	0.73
1:AH:179:PHE:HD1	1:AH:184:MET:HE3	1.54	0.73
1:AI:25:LEU:CD2	1:AO:505:VAL:HG21	2.19	0.73
1:AN:325:SER:CA	1:AN:330:GLY:HA3	2.19	0.73
1:AO:4:ARG:NH1	1:AQ:472:GLN:HA	2.04	0.73
1:AS:83:ASP:HB2	1:AS:442:ARG:NH2	2.04	0.73
1:AU:83:ASP:HB2	1:AU:442:ARG:NH2	2.04	0.73
1:AW:89:LEU:HA	1:AW:92:ILE:CD1	2.19	0.73
1:AX:89:LEU:HA	1:AX:92:ILE:CD1	2.19	0.73
1:A1:251:GLY:N	1:A1:332:GLY:HA3	2.04	0.72
1:A1:325:SER:CA	1:A1:330:GLY:HA3	2.19	0.72
1:A2:50:ILE:HD11	1:AV:133:ASN:ND2	2.03	0.72
1:A6:325:SER:CA	1:A6:330:GLY:HA3	2.19	0.72
1:A7:499:MET:HE1	1:AL:479:ALA:HB1	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:88:ILE:HG22	1:A9:92:ILE:HD11	1.71	0.72
1:AC:226:ALA:O	1:AC:230:ILE:HG23	1.88	0.72
1:AD:259:VAL:HG22	1:AD:324:ALA:HB1	1.70	0.72
1:AE:74:MET:HE3	1:AE:137:MET:HE1	1.71	0.72
1:AL:173:ARG:CD	1:AL:357:ASP:HA	2.19	0.72
1:AS:173:ARG:HH12	1:AS:378:GLU:HB3	1.54	0.72
1:AT:167:ASP:HA	1:AT:384:ARG:HB2	1.71	0.72
1:A5:366:SER:HB2	1:A5:371:HIS:HB2	1.70	0.72
1:A6:126:ILE:HG12	1:AT:458:ASN:ND2	2.04	0.72
1:A6:251:GLY:N	1:A6:332:GLY:HA3	2.04	0.72
1:A9:173:ARG:HD3	1:A9:357:ASP:HA	1.69	0.72
1:AC:89:LEU:HA	1:AC:92:ILE:CD1	2.18	0.72
1:AC:259:VAL:HG22	1:AC:324:ALA:HB1	1.69	0.72
1:AJ:495:GLY:O	1:AJ:499:MET:HG3	1.89	0.72
1:AK:461:VAL:HG11	1:AN:80:LYS:HB3	1.71	0.72
1:AN:149:ILE:HD12	1:AN:455:THR:HG21	1.70	0.72
1:AQ:249:THR:HG22	1:AQ:403:ASN:HD21	1.54	0.72
1:AQ:251:GLY:N	1:AQ:332:GLY:HA3	2.04	0.72
1:AR:211:ILE:HD11	1:AR:238:LEU:HD11	1.70	0.72
1:A4:226:ALA:O	1:A4:230:ILE:HG23	1.89	0.72
1:A5:38:ILE:CD1	1:A5:474:ARG:HA	2.19	0.72
1:A5:83:ASP:HB2	1:A5:442:ARG:NH2	2.04	0.72
1:A5:461:VAL:HG11	1:AK:80:LYS:HB3	1.71	0.72
1:A7:117:GLN:HE21	1:A7:387:ARG:HD2	1.52	0.72
1:AA:396:SER:HA	1:AA:401:ASN:HD22	1.54	0.72
1:AE:211:ILE:HD11	1:AE:238:LEU:HD11	1.71	0.72
1:AJ:226:ALA:O	1:AJ:230:ILE:HG23	1.89	0.72
1:AO:89:LEU:HA	1:AO:92:ILE:CD1	2.17	0.72
1:AQ:203:VAL:HG21	1:AQ:209:TYR:CD1	2.24	0.72
1:AR:173:ARG:HH12	1:AR:378:GLU:HB3	1.52	0.72
1:AS:263:THR:HG22	1:AS:268:GLU:HA	1.71	0.72
1:AT:83:ASP:HB2	1:AT:442:ARG:NH2	2.04	0.72
1:A4:92:ILE:CG2	1:A4:116:ILE:HG23	2.20	0.72
1:A4:481:GLU:OE2	1:A4:481:GLU:HA	1.89	0.72
1:A5:150:GLY:HA3	1:A5:155:THR:HB	1.69	0.72
1:A7:454:THR:HB	1:AJ:122:GLU:OE2	1.88	0.72
1:AA:226:ALA:O	1:AA:230:ILE:HG23	1.89	0.72
1:AB:226:ALA:O	1:AB:230:ILE:HG23	1.88	0.72
1:AC:150:GLY:HA3	1:AC:155:THR:HB	1.71	0.72
1:AG:33:SER:HB2	1:AP:17:VAL:HG21	1.70	0.72
1:AH:302:ASP:HB3	1:AH:308:ASN:HD21	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:251:GLY:N	1:AK:332:GLY:HA3	2.04	0.72
1:AR:80:LYS:HB3	1:AU:461:VAL:HG11	1.71	0.72
1:AR:120:LEU:HD21	1:AR:383:LEU:HG	1.71	0.72
1:AR:206:VAL:HG13	1:AR:207:ASN:OD1	1.89	0.72
1:AS:179:PHE:HA	1:AS:184:MET:SD	2.28	0.72
1:AU:116:ILE:HD12	1:AU:418:VAL:HG21	1.71	0.72
1:AX:226:ALA:O	1:AX:230:ILE:HG23	1.90	0.72
1:A1:366:SER:HB2	1:A1:371:HIS:HB2	1.71	0.72
1:A3:249:THR:HG22	1:A3:403:ASN:HD21	1.53	0.72
1:A7:146:GLU:HG2	1:AP:421:LEU:HD21	1.70	0.72
1:A9:251:GLY:N	1:A9:332:GLY:HA3	2.05	0.72
1:A9:325:SER:CA	1:A9:330:GLY:HA3	2.18	0.72
1:AC:68:ALA:HB3	1:AC:456:ILE:HD11	1.71	0.72
1:AH:496:SER:OG	1:AI:512:LEU:HD23	1.89	0.72
1:AP:455:THR:O	1:AP:459:ILE:HG23	1.90	0.72
1:AQ:25:LEU:CD2	1:AR:505:VAL:HG21	2.19	0.72
1:AR:38:ILE:HD11	1:AR:44:ASP:HB3	1.70	0.72
1:A1:203:VAL:HG21	1:A1:209:TYR:HD2	1.55	0.72
1:A2:99:ALA:HA	1:A2:104:GLN:OE1	1.88	0.72
1:A4:25:LEU:HD21	1:AF:505:VAL:HG21	1.71	0.72
1:AJ:224:ILE:HD11	1:AJ:246:VAL:CG2	2.20	0.72
1:AL:173:ARG:HH12	1:AL:378:GLU:HB3	1.55	0.72
1:AL:224:ILE:HD11	1:AL:246:VAL:CG2	2.19	0.72
1:AU:469:ALA:O	1:AU:473:ILE:HG22	1.89	0.72
1:AV:325:SER:CA	1:AV:330:GLY:HA3	2.19	0.72
1:A1:496:SER:OG	1:AQ:512:LEU:HD23	1.89	0.72
1:A4:496:SER:OG	1:AF:512:LEU:HD23	1.90	0.72
1:A6:496:SER:OG	1:AT:512:LEU:HD23	1.89	0.72
1:A7:9:ILE:HD11	1:AP:468:ALA:HA	1.71	0.72
1:A8:122:GLU:OE2	1:AE:454:THR:HB	1.89	0.72
1:A9:496:SER:OG	1:AH:512:LEU:HD23	1.89	0.72
1:AC:83:ASP:HB2	1:AC:442:ARG:NH2	2.05	0.72
1:AI:325:SER:CA	1:AI:330:GLY:HA3	2.20	0.72
1:AJ:260:ARG:O	1:AJ:261:GLU:HG3	1.89	0.72
1:AL:454:THR:HB	1:AP:122:GLU:OE2	1.90	0.72
1:A1:167:ASP:HA	1:A1:384:ARG:HB2	1.70	0.72
1:A2:99:ALA:CB	1:A2:112:LEU:HD22	2.13	0.72
1:A4:112:LEU:O	1:A4:116:ILE:HG13	1.89	0.72
1:A8:173:ARG:HD3	1:A8:357:ASP:HA	1.70	0.72
1:AB:173:ARG:HD3	1:AB:357:ASP:HA	1.70	0.72
1:AG:130:THR:HB	1:AG:138:LEU:HD12	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:83:ASP:HB2	1:AI:442:ARG:NH2	2.04	0.72
1:AN:68:ALA:HB3	1:AN:456:ILE:CD1	2.13	0.72
1:AN:68:ALA:CB	1:AN:456:ILE:HD11	2.14	0.72
1:AU:421:LEU:HD21	1:AX:146:GLU:HG2	1.72	0.72
1:A5:303:ILE:HG13	1:AD:234:PHE:CD2	2.25	0.72
1:AA:325:SER:CA	1:AA:330:GLY:HA3	2.20	0.72
1:AB:99:ALA:CB	1:AB:112:LEU:HD22	2.16	0.72
1:AC:501:GLN:O	1:AC:505:VAL:HG13	1.89	0.72
1:AG:279:ASP:HB3	1:AG:301:LEU:HD11	1.70	0.72
1:AJ:173:ARG:HH12	1:AJ:378:GLU:HB3	1.53	0.72
1:AL:83:ASP:HB2	1:AL:442:ARG:NH2	2.05	0.72
1:AN:83:ASP:HB2	1:AN:442:ARG:NH2	2.05	0.72
1:AN:99:ALA:CB	1:AN:112:LEU:HD22	2.18	0.72
1:AN:173:ARG:CD	1:AN:357:ASP:HA	2.18	0.72
1:AP:511:ARG:NH1	1:AP:512:LEU:HG	2.05	0.72
1:AR:469:ALA:O	1:AR:473:ILE:HG22	1.90	0.72
1:AV:99:ALA:HA	1:AV:104:GLN:OE1	1.89	0.72
1:A4:98:GLN:HG2	1:A4:112:LEU:HD21	1.72	0.72
1:A5:469:ALA:O	1:A5:473:ILE:HG22	1.90	0.72
1:A6:25:LEU:CD2	1:AT:505:VAL:HG21	2.18	0.72
1:A8:226:ALA:O	1:A8:230:ILE:HG23	1.90	0.72
1:A9:103:GLY:HA2	1:AK:74:MET:CE	2.20	0.72
1:AO:224:ILE:HD11	1:AO:246:VAL:CG2	2.20	0.72
1:AP:495:GLY:O	1:AP:499:MET:HG3	1.89	0.72
1:AX:144:ASN:HD22	1:AX:144:ASN:C	1.97	0.72
1:A2:251:GLY:N	1:A2:332:GLY:HA3	2.04	0.71
1:A6:203:VAL:HG21	1:A6:209:TYR:HD1	1.54	0.71
1:A8:83:ASP:HB2	1:A8:442:ARG:NH2	2.05	0.71
1:AC:264:ILE:HG22	1:AC:319:VAL:CG2	2.19	0.71
1:AC:469:ALA:O	1:AC:473:ILE:HG22	1.90	0.71
1:AD:89:LEU:HA	1:AD:92:ILE:CD1	2.19	0.71
1:AG:249:THR:HG22	1:AG:403:ASN:HD21	1.54	0.71
1:AL:302:ASP:HB3	1:AL:308:ASN:HD21	1.54	0.71
1:AQ:80:LYS:HB3	1:AR:461:VAL:HG11	1.72	0.71
1:AS:206:VAL:HG13	1:AS:207:ASN:OD1	1.89	0.71
1:AU:325:SER:HA	1:AU:330:GLY:HA3	1.70	0.71
1:A1:99:ALA:CB	1:A1:112:LEU:HD22	2.14	0.71
1:A2:305:GLY:HA3	1:AM:212:GLU:CD	2.14	0.71
1:A2:312:ILE:H	1:A2:312:ILE:HD12	1.55	0.71
1:A7:506:GLN:O	1:A7:509:VAL:HG12	1.90	0.71
1:A8:89:LEU:HA	1:A8:92:ILE:CD1	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:150:GLY:HA3	1:AD:155:THR:HB	1.71	0.71
1:AD:182:GLU:HG2	1:AD:183:GLY:N	2.05	0.71
1:AG:469:ALA:O	1:AG:473:ILE:HG22	1.90	0.71
1:AH:325:SER:CA	1:AH:330:GLY:HA3	2.19	0.71
1:AJ:83:ASP:HB2	1:AJ:442:ARG:NH2	2.05	0.71
1:AK:325:SER:CA	1:AK:330:GLY:HA3	2.19	0.71
1:AL:508:ASN:CA	1:AL:511:ARG:HG2	2.18	0.71
1:AM:74:MET:HB3	1:AM:137:MET:HE1	1.72	0.71
1:AO:469:ALA:O	1:AO:473:ILE:HG22	1.90	0.71
1:AT:173:ARG:HH12	1:AT:378:GLU:HB3	1.55	0.71
1:AT:325:SER:CA	1:AT:330:GLY:HA3	2.20	0.71
1:A5:325:SER:HA	1:A5:330:GLY:HA3	1.72	0.71
1:A6:226:ALA:O	1:A6:230:ILE:HG23	1.90	0.71
1:AC:80:LYS:HB3	1:AX:461:VAL:HG11	1.71	0.71
1:AH:83:ASP:HB2	1:AH:442:ARG:NH2	2.06	0.71
1:AI:99:ALA:HA	1:AI:104:GLN:OE1	1.90	0.71
1:AN:98:GLN:HG2	1:AN:112:LEU:HD21	1.72	0.71
1:AQ:173:ARG:HD3	1:AQ:357:ASP:HA	1.72	0.71
1:AR:173:ARG:CD	1:AR:357:ASP:HA	2.20	0.71
1:AU:251:GLY:N	1:AU:332:GLY:HA3	2.05	0.71
1:AX:224:ILE:HD11	1:AX:246:VAL:CG2	2.20	0.71
1:A2:496:SER:OG	1:AM:512:LEU:HD23	1.90	0.71
1:A3:212:GLU:CD	1:AL:305:GLY:HA3	2.15	0.71
1:A4:234:PHE:HB3	1:A4:238:LEU:CD1	2.19	0.71
1:A5:224:ILE:HD11	1:A5:246:VAL:CG2	2.20	0.71
1:A6:83:ASP:HB2	1:A6:442:ARG:NH2	2.05	0.71
1:A8:302:ASP:HB3	1:A8:308:ASN:ND2	2.05	0.71
1:AB:82:MET:O	1:AB:86:ILE:HG13	1.91	0.71
1:AE:262:LEU:O	1:AE:269:ILE:HG22	1.89	0.71
1:AG:173:ARG:CD	1:AG:357:ASP:HA	2.20	0.71
1:AL:167:ASP:HA	1:AL:384:ARG:HB2	1.71	0.71
1:AM:173:ARG:HD3	1:AM:357:ASP:HA	1.72	0.71
1:AM:396:SER:HA	1:AM:401:ASN:HD22	1.55	0.71
1:AO:68:ALA:HB3	1:AO:456:ILE:HD11	1.73	0.71
1:AP:256:SER:HA	1:AP:275:VAL:O	1.91	0.71
1:AQ:133:ASN:ND2	1:AR:50:ILE:HD11	2.05	0.71
1:AS:277:LYS:HG2	1:AS:278:ASN:ND2	2.06	0.71
1:AC:84:GLU:OE1	1:AC:84:GLU:HA	1.90	0.71
1:AF:80:LYS:HB3	1:AN:461:VAL:HG11	1.73	0.71
1:AK:224:ILE:HG13	1:AK:244:TYR:HB2	1.72	0.71
1:AL:469:ALA:O	1:AL:473:ILE:HG22	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:251:GLY:N	1:AM:332:GLY:HA3	2.06	0.71
1:AN:99:ALA:HB2	1:AN:112:LEU:CD2	2.16	0.71
1:AP:325:SER:CA	1:AP:330:GLY:HA3	2.20	0.71
1:AQ:8:ASN:HB3	1:AQ:11:ALA:HB3	1.73	0.71
1:AT:189:ALA:HA	1:AT:192:ASN:OD1	1.90	0.71
1:AU:224:ILE:HG13	1:AU:244:TYR:HB2	1.73	0.71
1:AV:234:PHE:HB3	1:AV:238:LEU:CD1	2.21	0.71
1:A1:92:ILE:CG2	1:A1:116:ILE:HG12	2.20	0.71
1:A1:117:GLN:HE22	1:A1:387:ARG:HD2	1.56	0.71
1:A1:481:GLU:OE1	1:A1:481:GLU:HA	1.90	0.71
1:A5:173:ARG:CD	1:A5:357:ASP:HA	2.20	0.71
1:A5:264:ILE:HG22	1:A5:319:VAL:HB	1.71	0.71
1:A6:398:ALA:CB	1:A6:426:ILE:HD11	2.19	0.71
1:A6:512:LEU:HD23	1:AW:496:SER:OG	1.90	0.71
1:A8:451:GLU:CG	1:AS:122:GLU:HB2	2.20	0.71
1:AC:461:VAL:HG11	1:AO:80:LYS:HB3	1.72	0.71
1:AF:88:ILE:HG22	1:AF:92:ILE:HD11	1.72	0.71
1:AH:173:ARG:HD3	1:AH:357:ASP:HA	1.72	0.71
1:AI:89:LEU:HA	1:AI:92:ILE:CD1	2.20	0.71
1:AN:302:ASP:HB3	1:AN:308:ASN:HD21	1.55	0.71
1:AR:325:SER:CA	1:AR:330:GLY:HA3	2.21	0.71
1:AS:325:SER:CA	1:AS:330:GLY:HA3	2.20	0.71
1:AS:451:GLU:HG2	1:AT:122:GLU:HG3	1.72	0.71
1:A1:303:ILE:HD12	1:AQ:234:PHE:CE2	2.25	0.71
1:A2:325:SER:HA	1:A2:330:GLY:HA3	1.70	0.71
1:A5:511:ARG:HH12	1:A5:512:LEU:CD1	2.04	0.71
1:A8:469:ALA:O	1:A8:473:ILE:HG22	1.90	0.71
1:AD:366:SER:HB2	1:AD:371:HIS:HB2	1.72	0.71
1:AI:226:ALA:O	1:AI:230:ILE:HG23	1.91	0.71
1:AU:226:ALA:O	1:AU:230:ILE:HG23	1.91	0.71
1:A3:366:SER:HB2	1:A3:371:HIS:HB2	1.70	0.71
1:A8:234:PHE:HB3	1:A8:238:LEU:CD1	2.20	0.71
1:AA:83:ASP:HB2	1:AA:442:ARG:NH2	2.06	0.71
1:AD:511:ARG:NH1	1:AD:512:LEU:HD13	2.02	0.71
1:AM:325:SER:CA	1:AM:330:GLY:HA3	2.20	0.71
1:AP:226:ALA:O	1:AP:230:ILE:HG23	1.90	0.71
1:A4:117:GLN:HE22	1:A4:387:ARG:HD2	1.56	0.71
1:A4:251:GLY:N	1:A4:332:GLY:HA3	2.05	0.71
1:A6:93:LYS:HE2	1:AP:60:ASN:ND2	2.05	0.71
1:A6:396:SER:HA	1:A6:401:ASN:HD22	1.55	0.71
1:AH:167:ASP:HA	1:AH:384:ARG:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:173:ARG:CD	1:AK:357:ASP:HA	2.20	0.71
1:AN:234:PHE:HB3	1:AN:238:LEU:HD11	1.72	0.71
1:AS:226:ALA:O	1:AS:230:ILE:HG23	1.91	0.71
1:AT:234:PHE:O	1:AT:238:LEU:HD12	1.91	0.71
1:AU:312:ILE:H	1:AU:312:ILE:HD12	1.54	0.71
1:AV:82:MET:O	1:AV:86:ILE:HG13	1.90	0.71
1:A4:366:SER:HB2	1:A4:371:HIS:HB2	1.70	0.71
1:A5:60:ASN:HD21	1:AH:93:LYS:HE2	1.56	0.71
1:AE:4:ARG:NH1	1:AK:472:GLN:HA	2.06	0.71
1:AE:226:ALA:O	1:AE:230:ILE:HG23	1.91	0.71
1:AF:99:ALA:CB	1:AF:112:LEU:HD22	2.15	0.71
1:AJ:150:GLY:HA3	1:AJ:155:THR:HB	1.73	0.71
1:AO:173:ARG:HD3	1:AO:357:ASP:HA	1.71	0.71
1:AT:179:PHE:HD1	1:AT:184:MET:HE3	1.56	0.71
1:A1:120:LEU:HD21	1:A1:383:LEU:HG	1.71	0.70
1:A1:234:PHE:HB3	1:A1:238:LEU:CD1	2.20	0.70
1:A4:99:ALA:CB	1:A4:112:LEU:HD22	2.19	0.70
1:A9:226:ALA:O	1:A9:230:ILE:HG23	1.91	0.70
1:AC:146:GLU:OE1	1:AC:156:THR:HG21	1.91	0.70
1:AG:80:LYS:HB3	1:AP:461:VAL:HG11	1.73	0.70
1:AI:249:THR:HG22	1:AI:403:ASN:HD21	1.55	0.70
1:AJ:491:LEU:HD11	1:AX:6:ASN:OD1	1.90	0.70
1:AO:325:SER:CA	1:AO:330:GLY:HA3	2.21	0.70
1:AQ:4:ARG:NH1	1:AV:472:GLN:HA	2.06	0.70
1:AQ:184:MET:O	1:AQ:184:MET:HE3	1.90	0.70
1:AR:251:GLY:N	1:AR:332:GLY:HA3	2.05	0.70
1:AT:173:ARG:HD3	1:AT:357:ASP:HA	1.73	0.70
1:AU:468:ALA:HA	1:AX:9:ILE:HD11	1.73	0.70
1:AV:291:VAL:O	1:AV:295:THR:HG23	1.91	0.70
1:AX:366:SER:HB2	1:AX:371:HIS:HB2	1.72	0.70
1:A2:17:VAL:HG21	1:AV:33:SER:HB2	1.71	0.70
1:A6:80:LYS:HB3	1:AT:461:VAL:HG11	1.73	0.70
1:A7:370:PHE:HA	1:A7:376:VAL:HG11	1.73	0.70
1:A7:505:VAL:HG21	1:AJ:25:LEU:CD2	2.21	0.70
1:A8:325:SER:HA	1:A8:330:GLY:HA3	1.72	0.70
1:AD:291:VAL:HG23	1:AD:295:THR:CG2	2.21	0.70
1:AF:173:ARG:HD3	1:AF:357:ASP:HA	1.73	0.70
1:AG:256:SER:HA	1:AG:275:VAL:O	1.91	0.70
1:AI:256:SER:HA	1:AI:275:VAL:O	1.91	0.70
1:AI:469:ALA:O	1:AI:473:ILE:HG22	1.90	0.70
1:AX:149:ILE:HD11	1:AX:157:VAL:CG2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:277:LYS:HG2	1:A5:278:ASN:ND2	2.05	0.70
1:A8:366:SER:HB2	1:A8:371:HIS:HB2	1.70	0.70
1:A8:461:VAL:HG11	1:AS:80:LYS:HB3	1.74	0.70
1:AB:291:VAL:HG23	1:AB:295:THR:CG2	2.22	0.70
1:AD:260:ARG:O	1:AD:261:GLU:HG3	1.91	0.70
1:AE:116:ILE:HD13	1:AE:418:VAL:HG21	1.71	0.70
1:AG:468:ALA:HA	1:AJ:9:ILE:HD11	1.73	0.70
1:AU:93:LYS:HE2	1:AX:60:ASN:HD21	1.55	0.70
1:AX:203:VAL:HG21	1:AX:209:TYR:HD2	1.54	0.70
1:A1:302:ASP:HB3	1:A1:308:ASN:HD21	1.56	0.70
1:A7:469:ALA:O	1:A7:473:ILE:HG22	1.90	0.70
1:AD:98:GLN:HG2	1:AD:112:LEU:HD21	1.74	0.70
1:AI:80:LYS:HB3	1:AO:461:VAL:HG11	1.74	0.70
1:AI:224:ILE:HD11	1:AI:246:VAL:CG2	2.22	0.70
1:AK:149:ILE:HD11	1:AK:157:VAL:CG2	2.21	0.70
1:AM:149:ILE:HD11	1:AM:157:VAL:HG23	1.72	0.70
1:AM:366:SER:CB	1:AM:371:HIS:HB2	2.22	0.70
1:AQ:226:ALA:O	1:AQ:230:ILE:HG23	1.91	0.70
1:AU:328:VAL:HG23	1:AU:329:PHE:CE1	2.27	0.70
1:AV:19:VAL:O	1:AV:23:ARG:HG3	1.91	0.70
1:AX:469:ALA:O	1:AX:473:ILE:HG22	1.90	0.70
1:A3:505:VAL:HG21	1:AL:25:LEU:CD2	2.21	0.70
1:A4:291:VAL:HG23	1:A4:295:THR:CG2	2.21	0.70
1:AF:291:VAL:HG23	1:AF:295:THR:CG2	2.21	0.70
1:AH:226:ALA:O	1:AH:230:ILE:HG23	1.91	0.70
1:AH:396:SER:HA	1:AH:401:ASN:HD22	1.57	0.70
1:AJ:461:VAL:HG11	1:AU:80:LYS:HB3	1.73	0.70
1:AJ:506:GLN:O	1:AJ:509:VAL:HG12	1.91	0.70
1:AM:89:LEU:HA	1:AM:92:ILE:CD1	2.22	0.70
1:AN:88:ILE:HG22	1:AN:92:ILE:HD11	1.73	0.70
1:AN:495:GLY:O	1:AN:499:MET:HG3	1.90	0.70
1:AO:251:GLY:N	1:AO:332:GLY:HA3	2.07	0.70
1:AO:495:GLY:O	1:AO:499:MET:HG3	1.91	0.70
1:AP:167:ASP:HA	1:AP:384:ARG:HB2	1.71	0.70
1:AP:173:ARG:CD	1:AP:357:ASP:HA	2.21	0.70
1:AS:383:LEU:HA	1:AS:430:MET:CE	2.22	0.70
1:AT:249:THR:HG22	1:AT:403:ASN:HD21	1.55	0.70
1:AU:325:SER:CA	1:AU:330:GLY:HA3	2.21	0.70
1:AW:251:GLY:N	1:AW:332:GLY:HA3	2.05	0.70
1:AW:383:LEU:HA	1:AW:430:MET:CE	2.22	0.70
1:A2:184:MET:HE1	1:A2:345:ILE:CG1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:325:SER:CA	1:AG:330:GLY:HA3	2.22	0.70
1:AH:469:ALA:O	1:AH:473:ILE:HG22	1.91	0.70
1:AP:328:VAL:HG23	1:AP:329:PHE:CE1	2.26	0.70
1:AR:122:GLU:OE2	1:AU:454:THR:HB	1.91	0.70
1:AR:325:SER:HA	1:AR:330:GLY:HA3	1.71	0.70
1:A1:80:LYS:HB3	1:AQ:461:VAL:HG11	1.74	0.70
1:A2:92:ILE:CG2	1:A2:116:ILE:HG12	2.19	0.70
1:A2:173:ARG:HD3	1:A2:357:ASP:HA	1.72	0.70
1:A3:195:GLU:OE1	1:A3:215:ARG:HG2	1.92	0.70
1:A4:312:ILE:H	1:A4:312:ILE:HD12	1.55	0.70
1:A6:89:LEU:HA	1:A6:92:ILE:CD1	2.21	0.70
1:AG:116:ILE:CD1	1:AG:418:VAL:HG21	2.21	0.70
1:AG:251:GLY:N	1:AG:332:GLY:HA3	2.06	0.70
1:AI:251:GLY:N	1:AI:332:GLY:HA3	2.06	0.70
1:AK:256:SER:HA	1:AK:275:VAL:O	1.92	0.70
1:AK:422:LYS:O	1:AK:426:ILE:HD13	1.92	0.70
1:AL:279:ASP:HB3	1:AL:301:LEU:HD11	1.74	0.70
1:AU:173:ARG:CD	1:AU:357:ASP:HA	2.22	0.70
1:A3:224:ILE:HD11	1:A3:246:VAL:CG2	2.21	0.70
1:A6:294:ARG:NH2	1:AP:206:VAL:HG11	2.06	0.70
1:A6:366:SER:CB	1:A6:371:HIS:HB2	2.21	0.70
1:A8:80:LYS:HB3	1:AE:461:VAL:HG11	1.74	0.70
1:A8:426:ILE:O	1:A8:430:MET:HG3	1.92	0.70
1:A9:89:LEU:HA	1:A9:92:ILE:CD1	2.21	0.70
1:AE:9:ILE:HD11	1:AK:468:ALA:HA	1.72	0.70
1:AI:302:ASP:HB3	1:AI:308:ASN:ND2	2.06	0.70
1:AL:186:ALA:CB	1:AL:334:PHE:HB2	2.22	0.70
1:AN:89:LEU:HA	1:AN:92:ILE:CD1	2.21	0.70
1:AN:251:GLY:N	1:AN:332:GLY:HA3	2.05	0.70
1:AR:186:ALA:CB	1:AR:334:PHE:HB2	2.22	0.70
1:AT:251:GLY:N	1:AT:332:GLY:HA3	2.05	0.70
1:A2:505:VAL:HG21	1:AV:25:LEU:CD2	2.21	0.70
1:A6:291:VAL:O	1:A6:295:THR:HG23	1.92	0.70
1:A9:501:GLN:HG3	1:AA:485:PHE:CE2	2.26	0.70
1:AG:99:ALA:CB	1:AG:112:LEU:HD22	2.15	0.70
1:A1:226:ALA:O	1:A1:230:ILE:HG23	1.92	0.70
1:A7:6:ASN:O	1:AL:487:LYS:HE3	1.92	0.70
1:AA:74:MET:HB3	1:AA:137:MET:CE	2.21	0.70
1:AJ:173:ARG:CD	1:AJ:357:ASP:HA	2.21	0.70
1:AK:469:ALA:O	1:AK:473:ILE:HG22	1.90	0.70
1:AL:505:VAL:HG21	1:AP:25:LEU:CD2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:184:MET:HE1	1:AO:345:ILE:CG1	2.22	0.70
1:AR:256:SER:HA	1:AR:275:VAL:O	1.92	0.70
1:A7:150:GLY:HA3	1:A7:155:THR:HB	1.73	0.69
1:A8:150:GLY:HA3	1:A8:155:THR:HB	1.72	0.69
1:A9:396:SER:HA	1:A9:401:ASN:HD22	1.56	0.69
1:AC:366:SER:HB2	1:AC:371:HIS:HB2	1.74	0.69
1:AE:179:PHE:HD1	1:AE:184:MET:HE3	1.56	0.69
1:AF:93:LYS:HG2	1:AS:60:ASN:HD21	1.57	0.69
1:AG:179:PHE:HZ	1:AG:344:VAL:HG13	1.55	0.69
1:AI:173:ARG:CD	1:AI:357:ASP:HA	2.21	0.69
1:AJ:458:ASN:ND2	1:AU:126:ILE:HG12	2.06	0.69
1:AN:117:GLN:NE2	1:AN:387:ARG:HD2	2.07	0.69
1:AO:74:MET:CE	1:AO:137:MET:HE1	2.20	0.69
1:AO:396:SER:HA	1:AO:401:ASN:HD22	1.57	0.69
1:AS:186:ALA:CB	1:AS:334:PHE:HB2	2.21	0.69
1:AT:184:MET:HE1	1:AT:345:ILE:CG1	2.22	0.69
1:AX:259:VAL:HG22	1:AX:324:ALA:HB1	1.73	0.69
1:A2:173:ARG:HH12	1:A2:378:GLU:HB3	1.57	0.69
1:A4:122:GLU:OE2	1:AF:454:THR:HB	1.91	0.69
1:AD:186:ALA:CB	1:AD:334:PHE:HB2	2.22	0.69
1:AE:173:ARG:CD	1:AE:357:ASP:HA	2.21	0.69
1:AF:88:ILE:HD11	1:AN:454:THR:HG21	1.73	0.69
1:AG:149:ILE:HD12	1:AG:455:THR:HG21	1.74	0.69
1:AK:302:ASP:HB3	1:AK:308:ASN:ND2	2.07	0.69
1:AM:88:ILE:HG22	1:AM:92:ILE:HD11	1.73	0.69
1:AN:469:ALA:O	1:AN:473:ILE:HG22	1.92	0.69
1:AQ:256:SER:HA	1:AQ:275:VAL:O	1.93	0.69
1:AT:226:ALA:O	1:AT:230:ILE:HG23	1.92	0.69
1:AU:117:GLN:HE21	1:AU:387:ARG:HD2	1.56	0.69
1:AV:98:GLN:HG2	1:AV:112:LEU:HD21	1.72	0.69
1:AW:396:SER:HA	1:AW:401:ASN:HD22	1.57	0.69
1:A7:451:GLU:HG3	1:AJ:122:GLU:HG3	1.75	0.69
1:AA:173:ARG:CD	1:AA:357:ASP:HA	2.22	0.69
1:AC:149:ILE:HD11	1:AC:157:VAL:HG23	1.75	0.69
1:AD:352:ARG:HH22	1:AD:356:ARG:HH21	1.39	0.69
1:AG:461:VAL:HG11	1:AM:80:LYS:HB3	1.74	0.69
1:AP:422:LYS:O	1:AP:426:ILE:HG12	1.93	0.69
1:AQ:74:MET:HB3	1:AQ:137:MET:HE1	1.73	0.69
1:A1:291:VAL:HG23	1:A1:295:THR:CG2	2.23	0.69
1:A2:508:ASN:HA	1:A2:511:ARG:HG2	1.72	0.69
1:A4:291:VAL:O	1:A4:295:THR:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:490:ILE:CG2	1:A6:510:LEU:HD12	2.23	0.69
1:A5:251:GLY:N	1:A5:332:GLY:HA3	2.07	0.69
1:A5:279:ASP:HB3	1:A5:301:LEU:HD11	1.74	0.69
1:A6:256:SER:HA	1:A6:275:VAL:O	1.92	0.69
1:A7:224:ILE:HD13	1:A7:345:ILE:O	1.92	0.69
1:A9:82:MET:HE1	1:A9:445:MET:HE3	1.73	0.69
1:A9:122:GLU:HB2	1:AH:451:GLU:CG	2.22	0.69
1:AB:89:LEU:HA	1:AB:92:ILE:CD1	2.21	0.69
1:AF:15:HIS:O	1:AF:19:VAL:HG12	1.92	0.69
1:AK:226:ALA:O	1:AK:230:ILE:HG23	1.93	0.69
1:AN:396:SER:HA	1:AN:401:ASN:HD22	1.58	0.69
1:AO:186:ALA:CB	1:AO:334:PHE:HB2	2.22	0.69
1:AP:120:LEU:HD21	1:AP:166:SER:CB	2.22	0.69
1:AP:396:SER:HA	1:AP:401:ASN:HD22	1.57	0.69
1:AQ:98:GLN:HG2	1:AQ:112:LEU:HD21	1.74	0.69
1:AQ:291:VAL:O	1:AQ:295:THR:HG23	1.92	0.69
1:AS:173:ARG:CD	1:AS:357:ASP:HA	2.21	0.69
1:AV:277:LYS:HG2	1:AV:278:ASN:ND2	2.07	0.69
1:A1:485:PHE:CE2	1:AQ:501:GLN:HG3	2.27	0.69
1:A2:15:HIS:O	1:A2:19:VAL:HG12	1.92	0.69
1:A4:184:MET:HE1	1:A4:345:ILE:CG1	2.20	0.69
1:A5:325:SER:CA	1:A5:330:GLY:HA3	2.22	0.69
1:A6:277:LYS:HG2	1:A6:278:ASN:ND2	2.07	0.69
1:A9:277:LYS:HG2	1:A9:278:ASN:ND2	2.08	0.69
1:A9:383:LEU:HA	1:A9:430:MET:CE	2.22	0.69
1:AB:325:SER:CA	1:AB:330:GLY:HA3	2.22	0.69
1:AB:383:LEU:HA	1:AB:430:MET:CE	2.22	0.69
1:AE:469:ALA:O	1:AE:473:ILE:HG22	1.91	0.69
1:AI:150:GLY:HA3	1:AI:155:THR:HB	1.74	0.69
1:AI:167:ASP:HA	1:AI:384:ARG:HB2	1.74	0.69
1:AJ:216:ILE:HD13	1:AJ:223:GLY:HA2	1.74	0.69
1:AJ:234:PHE:CD2	1:AU:303:ILE:HD12	2.27	0.69
1:AK:186:ALA:CB	1:AK:334:PHE:HB2	2.22	0.69
1:AM:99:ALA:HA	1:AM:104:GLN:OE1	1.92	0.69
1:AP:98:GLN:HG2	1:AP:112:LEU:HD21	1.73	0.69
1:AQ:277:LYS:HG2	1:AQ:278:ASN:ND2	2.08	0.69
1:AS:422:LYS:O	1:AS:426:ILE:HG12	1.92	0.69
1:AS:496:SER:HA	1:AS:499:MET:HE3	1.75	0.69
1:AT:234:PHE:HB3	1:AT:238:LEU:HD11	1.72	0.69
1:A2:78:ALA:O	1:A2:82:MET:HG3	1.93	0.69
1:A3:461:VAL:HG11	1:AL:80:LYS:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:256:SER:HA	1:A4:275:VAL:O	1.93	0.69
1:A5:68:ALA:HB3	1:A5:456:ILE:HD11	1.74	0.69
1:A6:173:ARG:HD3	1:A6:357:ASP:HA	1.75	0.69
1:A7:259:VAL:HG22	1:A7:324:ALA:HB1	1.74	0.69
1:A9:291:VAL:HG23	1:A9:295:THR:CG2	2.23	0.69
1:AC:291:VAL:HG23	1:AC:295:THR:HG21	1.74	0.69
1:AD:352:ARG:NH1	1:AD:356:ARG:HB3	2.06	0.69
1:AF:366:SER:CB	1:AF:371:HIS:HB2	2.23	0.69
1:AG:277:LYS:HG2	1:AG:278:ASN:ND2	2.07	0.69
1:AL:263:THR:HG22	1:AL:268:GLU:HA	1.73	0.69
1:AP:302:ASP:HB3	1:AP:308:ASN:ND2	2.07	0.69
1:AT:495:GLY:O	1:AT:499:MET:HE3	1.93	0.69
1:AU:256:SER:HA	1:AU:275:VAL:O	1.93	0.69
1:A2:396:SER:HA	1:A2:401:ASN:HD22	1.57	0.69
1:A2:485:PHE:CE2	1:AM:501:GLN:HG3	2.28	0.69
1:A4:82:MET:O	1:A4:86:ILE:HG13	1.93	0.69
1:A6:93:LYS:HE2	1:AP:60:ASN:HD21	1.55	0.69
1:A8:25:LEU:HD21	1:AE:505:VAL:HG21	1.74	0.69
1:A9:150:GLY:HA3	1:A9:155:THR:HB	1.75	0.69
1:A9:256:SER:HA	1:A9:275:VAL:O	1.93	0.69
1:AD:99:ALA:HB2	1:AD:112:LEU:CD2	2.23	0.69
1:AE:186:ALA:CB	1:AE:334:PHE:HB2	2.23	0.69
1:AM:277:LYS:HG2	1:AM:278:ASN:ND2	2.07	0.69
1:AO:167:ASP:HA	1:AO:384:ARG:HB2	1.74	0.69
1:AP:186:ALA:CB	1:AP:334:PHE:HB2	2.23	0.69
1:AQ:469:ALA:O	1:AQ:473:ILE:HG22	1.93	0.69
1:AS:149:ILE:HD11	1:AS:157:VAL:CG2	2.21	0.69
1:AT:82:MET:O	1:AT:86:ILE:HG13	1.93	0.69
1:AV:226:ALA:O	1:AV:230:ILE:HG23	1.92	0.69
1:AX:65:ILE:HG12	1:AX:459:ILE:HD12	1.74	0.69
1:A1:149:ILE:HD12	1:A1:455:THR:HG21	1.75	0.69
1:A3:6:ASN:OD1	1:A8:491:LEU:HD11	1.93	0.69
1:A3:224:ILE:HD11	1:A3:246:VAL:HG22	1.74	0.69
1:A3:259:VAL:HG22	1:A3:324:ALA:HB1	1.75	0.69
1:A3:469:ALA:O	1:A3:473:ILE:HG22	1.91	0.69
1:A4:112:LEU:HD11	1:AS:46:SER:OG	1.92	0.69
1:A5:9:ILE:HD11	1:AH:468:ALA:HA	1.73	0.69
1:A6:108:SER:O	1:A6:112:LEU:HD12	1.93	0.69
1:A6:469:ALA:O	1:A6:473:ILE:HG22	1.92	0.69
1:A7:366:SER:HB2	1:A7:371:HIS:HB2	1.72	0.69
1:A8:129:THR:HG21	1:AE:155:THR:HG23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:186:ALA:CB	1:A8:334:PHE:HB2	2.23	0.69
1:A8:303:ILE:HA	1:AE:234:PHE:CE2	2.28	0.69
1:AA:82:MET:O	1:AA:86:ILE:HG13	1.92	0.69
1:AA:93:LYS:HE2	1:AN:60:ASN:HD21	1.58	0.69
1:AA:93:LYS:HE2	1:AN:60:ASN:ND2	2.08	0.69
1:AB:93:LYS:HE2	1:AH:60:ASN:ND2	2.08	0.69
1:AB:422:LYS:O	1:AB:426:ILE:HD12	1.92	0.69
1:AC:84:GLU:OE2	1:AX:454:THR:HG23	1.93	0.69
1:AC:99:ALA:HB2	1:AC:112:LEU:CD2	2.21	0.69
1:AH:80:LYS:HB3	1:AI:461:VAL:HG11	1.74	0.69
1:AH:161:ILE:HG12	1:AH:445:MET:HE2	1.74	0.69
1:AI:179:PHE:HZ	1:AI:344:VAL:HG13	1.58	0.69
1:AK:396:SER:HA	1:AK:401:ASN:HD22	1.56	0.69
1:AL:461:VAL:HG11	1:AP:80:LYS:HB3	1.74	0.69
1:AM:108:SER:O	1:AM:112:LEU:HD12	1.91	0.69
1:AO:88:ILE:HG22	1:AO:92:ILE:HD11	1.75	0.69
1:AS:116:ILE:CD1	1:AS:418:VAL:HG21	2.22	0.69
1:AT:396:SER:HA	1:AT:401:ASN:HD22	1.58	0.69
1:AT:469:ALA:O	1:AT:473:ILE:HG22	1.92	0.69
1:AX:291:VAL:HG23	1:AX:295:THR:CG2	2.22	0.69
1:A1:279:ASP:HB3	1:A1:301:LEU:HD11	1.75	0.69
1:A5:88:ILE:HG22	1:A5:92:ILE:HD11	1.75	0.69
1:A9:34:SER:HA	1:AH:17:VAL:HG11	1.73	0.69
1:A9:80:LYS:HB3	1:AH:461:VAL:HG11	1.75	0.69
1:A9:174:MET:HE1	1:A9:398:ALA:HB2	1.75	0.69
1:AC:186:ALA:CB	1:AC:334:PHE:HB2	2.23	0.69
1:AD:211:ILE:CD1	1:AD:238:LEU:HD11	2.22	0.69
1:AE:366:SER:HB2	1:AE:371:HIS:HB2	1.72	0.69
1:AF:184:MET:HE1	1:AF:345:ILE:CG1	2.21	0.69
1:AJ:146:GLU:OE2	1:AJ:156:THR:HG21	1.93	0.69
1:AT:256:SER:HA	1:AT:275:VAL:O	1.92	0.69
1:AX:186:ALA:CB	1:AX:334:PHE:HB2	2.23	0.69
1:A1:78:ALA:HB3	1:A1:445:MET:HE1	1.75	0.69
1:A3:92:ILE:HG23	1:A3:116:ILE:HG23	1.74	0.69
1:A3:506:GLN:O	1:A3:509:VAL:HG12	1.93	0.69
1:AC:9:ILE:HD11	1:AR:468:ALA:HA	1.74	0.69
1:AD:256:SER:HA	1:AD:275:VAL:O	1.93	0.69
1:AE:264:ILE:HG22	1:AE:319:VAL:CG2	2.23	0.69
1:AG:226:ALA:O	1:AG:230:ILE:HG23	1.93	0.69
1:AL:458:ASN:ND2	1:AP:126:ILE:HG12	2.07	0.69
1:AM:184:MET:HE1	1:AM:345:ILE:CG1	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:256:SER:HA	1:AN:275:VAL:O	1.93	0.69
1:AS:234:PHE:HB3	1:AS:238:LEU:HD11	1.75	0.69
1:AV:92:ILE:CG2	1:AV:116:ILE:HG23	2.22	0.69
1:AW:256:SER:HA	1:AW:275:VAL:O	1.93	0.69
1:AW:469:ALA:O	1:AW:473:ILE:HG22	1.93	0.69
1:A1:82:MET:O	1:A1:86:ILE:HG13	1.93	0.68
1:A2:291:VAL:HG23	1:A2:295:THR:CG2	2.23	0.68
1:A5:186:ALA:CB	1:A5:334:PHE:HB2	2.22	0.68
1:A5:506:GLN:O	1:A5:509:VAL:HG12	1.94	0.68
1:A8:88:ILE:HG22	1:A8:92:ILE:HD11	1.76	0.68
1:AB:97:VAL:HG22	1:AB:428:MET:SD	2.33	0.68
1:AB:277:LYS:HG2	1:AB:278:ASN:ND2	2.08	0.68
1:AC:126:ILE:HG12	1:AX:458:ASN:HD22	1.58	0.68
1:AC:234:PHE:CE2	1:AO:303:ILE:HD12	2.27	0.68
1:AG:366:SER:CB	1:AG:371:HIS:HB2	2.23	0.68
1:AH:166:SER:O	1:AH:383:LEU:HB3	1.93	0.68
1:AI:116:ILE:HD12	1:AI:418:VAL:HG21	1.75	0.68
1:AI:184:MET:HE1	1:AI:345:ILE:CG1	2.18	0.68
1:AI:279:ASP:HB3	1:AI:301:LEU:HD11	1.73	0.68
1:AK:150:GLY:HA3	1:AK:155:THR:HB	1.75	0.68
1:AO:173:ARG:CD	1:AO:357:ASP:HA	2.22	0.68
1:AQ:366:SER:CB	1:AQ:371:HIS:HB2	2.23	0.68
1:AR:167:ASP:HA	1:AR:384:ARG:HB2	1.74	0.68
1:AS:68:ALA:HB3	1:AS:456:ILE:HD11	1.74	0.68
1:AU:171:HIS:CD2	1:AU:382:ASN:HB3	2.28	0.68
1:AV:256:SER:HA	1:AV:275:VAL:O	1.93	0.68
1:A1:461:VAL:HG11	1:AB:80:LYS:HB3	1.75	0.68
1:A8:260:ARG:NH1	1:A8:323:SER:HB2	2.09	0.68
1:AA:490:ILE:CG2	1:AF:510:LEU:HD12	2.23	0.68
1:AE:167:ASP:HA	1:AE:384:ARG:HB2	1.75	0.68
1:AG:83:ASP:HB2	1:AG:442:ARG:NH2	2.07	0.68
1:AJ:186:ALA:CB	1:AJ:334:PHE:HB2	2.23	0.68
1:AJ:256:SER:HA	1:AJ:275:VAL:O	1.94	0.68
1:AK:203:VAL:HG21	1:AK:209:TYR:HD2	1.58	0.68
1:AN:186:ALA:CB	1:AN:334:PHE:HB2	2.24	0.68
1:AN:366:SER:CB	1:AN:371:HIS:HB2	2.23	0.68
1:AT:291:VAL:O	1:AT:295:THR:HG23	1.93	0.68
1:A1:277:LYS:HG2	1:A1:278:ASN:ND2	2.08	0.68
1:A2:15:HIS:HA	1:A2:499:MET:CE	2.24	0.68
1:A5:263:THR:HG22	1:A5:268:GLU:HA	1.75	0.68
1:A5:410:ASN:HD21	1:A5:414:ILE:HG22	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:211:ILE:HD12	1:A6:234:PHE:HD1	1.58	0.68
1:A8:173:ARG:CD	1:A8:357:ASP:HA	2.22	0.68
1:AB:291:VAL:O	1:AB:295:THR:HG23	1.94	0.68
1:AH:366:SER:CB	1:AH:371:HIS:HB2	2.23	0.68
1:A2:226:ALA:O	1:A2:230:ILE:HG23	1.92	0.68
1:A3:173:ARG:CD	1:A3:357:ASP:HA	2.24	0.68
1:A6:509:VAL:HG12	1:A6:510:LEU:HD23	1.76	0.68
1:A7:120:LEU:HD11	1:A7:383:LEU:HG	1.76	0.68
1:A9:83:ASP:HB2	1:A9:442:ARG:NH2	2.08	0.68
1:A9:173:ARG:CD	1:A9:357:ASP:HA	2.23	0.68
1:AA:251:GLY:N	1:AA:332:GLY:HA3	2.06	0.68
1:AD:149:ILE:HD12	1:AD:455:THR:HG21	1.75	0.68
1:AE:68:ALA:HB3	1:AE:456:ILE:CD1	2.20	0.68
1:AG:93:LYS:HE2	1:AJ:60:ASN:HD21	1.58	0.68
1:AG:99:ALA:HA	1:AG:104:GLN:OE1	1.94	0.68
1:AH:82:MET:O	1:AH:86:ILE:HG13	1.94	0.68
1:AI:366:SER:CB	1:AI:371:HIS:HB2	2.24	0.68
1:AJ:445:MET:HA	1:AJ:445:MET:CE	2.21	0.68
1:AM:291:VAL:O	1:AM:295:THR:HG23	1.93	0.68
1:AN:226:ALA:O	1:AN:230:ILE:HG23	1.93	0.68
1:AR:226:ALA:O	1:AR:230:ILE:HG23	1.92	0.68
1:AT:277:LYS:HG2	1:AT:278:ASN:ND2	2.09	0.68
1:AU:150:GLY:HA3	1:AU:155:THR:HB	1.76	0.68
1:A1:312:ILE:H	1:A1:312:ILE:HD12	1.58	0.68
1:A3:291:VAL:HG23	1:A3:295:THR:HG21	1.76	0.68
1:A8:146:GLU:HG2	1:AN:421:LEU:HD21	1.74	0.68
1:AB:99:ALA:HA	1:AB:104:GLN:OE1	1.93	0.68
1:AB:302:ASP:HB3	1:AB:308:ASN:HD21	1.57	0.68
1:AF:256:SER:HA	1:AF:275:VAL:O	1.93	0.68
1:AJ:291:VAL:HG23	1:AJ:295:THR:CG2	2.23	0.68
1:AM:173:ARG:CD	1:AM:357:ASP:HA	2.24	0.68
1:AO:179:PHE:HD1	1:AO:184:MET:HE3	1.59	0.68
1:AT:81:ALA:HB3	1:AT:138:LEU:HD11	1.75	0.68
1:AU:263:THR:HG22	1:AU:268:GLU:HA	1.76	0.68
1:A2:256:SER:HA	1:A2:275:VAL:O	1.93	0.68
1:A2:458:ASN:HD22	1:AV:126:ILE:HG12	1.59	0.68
1:A3:186:ALA:CB	1:A3:334:PHE:HB2	2.23	0.68
1:A3:458:ASN:HD22	1:AL:126:ILE:HG12	1.59	0.68
1:A5:80:LYS:HB3	1:AD:461:VAL:HG11	1.76	0.68
1:A7:512:LEU:HD13	1:AJ:496:SER:OG	1.94	0.68
1:A8:234:PHE:CE2	1:AS:303:ILE:HD12	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:291:VAL:HG23	1:A8:295:THR:CG2	2.23	0.68
1:AB:396:SER:HA	1:AB:401:ASN:HD22	1.59	0.68
1:AE:262:LEU:HD11	1:AE:319:VAL:CG2	2.24	0.68
1:AG:396:SER:HA	1:AG:401:ASN:HD22	1.59	0.68
1:AH:256:SER:HA	1:AH:275:VAL:O	1.93	0.68
1:AH:277:LYS:HG2	1:AH:278:ASN:ND2	2.09	0.68
1:AK:279:ASP:HB3	1:AK:301:LEU:HD11	1.75	0.68
1:AL:184:MET:HE1	1:AL:345:ILE:HG12	1.76	0.68
1:AL:260:ARG:NH1	1:AL:323:SER:HB2	2.08	0.68
1:AM:82:MET:O	1:AM:86:ILE:HG13	1.94	0.68
1:AQ:82:MET:O	1:AQ:86:ILE:HG13	1.94	0.68
1:AS:186:ALA:HB3	1:AS:334:PHE:HB2	1.76	0.68
1:AS:469:ALA:O	1:AS:473:ILE:HG22	1.92	0.68
1:A2:277:LYS:HG2	1:A2:278:ASN:ND2	2.09	0.68
1:A3:173:ARG:HD3	1:A3:357:ASP:HA	1.74	0.68
1:A3:247:MET:HE3	1:A3:402:ALA:CB	2.23	0.68
1:A6:501:GLN:HG3	1:AW:485:PHE:CE2	2.29	0.68
1:A8:179:PHE:CD1	1:A8:184:MET:HE3	2.28	0.68
1:AA:291:VAL:O	1:AA:295:THR:HG23	1.94	0.68
1:AC:303:ILE:HG13	1:AX:234:PHE:CE2	2.28	0.68
1:AF:234:PHE:O	1:AF:238:LEU:HD12	1.93	0.68
1:AK:116:ILE:HD12	1:AK:418:VAL:HG21	1.74	0.68
1:AN:312:ILE:H	1:AN:312:ILE:HD12	1.57	0.68
1:AR:303:ILE:HD12	1:AU:234:PHE:CE2	2.29	0.68
1:AU:82:MET:O	1:AU:86:ILE:HG13	1.93	0.68
1:AU:508:ASN:CA	1:AU:511:ARG:HG2	2.17	0.68
1:AV:173:ARG:CD	1:AV:357:ASP:HA	2.23	0.68
1:AW:82:MET:HE2	1:AW:438:LEU:HD22	1.75	0.68
1:AW:83:ASP:HB2	1:AW:442:ARG:NH2	2.09	0.68
1:A4:277:LYS:HG2	1:A4:278:ASN:ND2	2.09	0.68
1:A6:17:VAL:HG21	1:AW:33:SER:HB2	1.74	0.68
1:A7:173:ARG:CD	1:A7:357:ASP:HA	2.24	0.68
1:A7:186:ALA:CB	1:A7:334:PHE:HB2	2.23	0.68
1:AA:302:ASP:HB3	1:AA:308:ASN:HD21	1.59	0.68
1:AB:248:ALA:HA	1:AB:334:PHE:CE2	2.29	0.68
1:AD:82:MET:O	1:AD:86:ILE:HG13	1.94	0.68
1:AF:203:VAL:HG21	1:AF:209:TYR:CD1	2.28	0.68
1:AG:186:ALA:CB	1:AG:334:PHE:HB2	2.24	0.68
1:AH:291:VAL:HG23	1:AH:295:THR:CG2	2.24	0.68
1:AP:149:ILE:HD11	1:AP:157:VAL:HG23	1.74	0.68
1:AR:99:ALA:CB	1:AR:112:LEU:HD22	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:366:SER:CB	1:AS:371:HIS:HB2	2.24	0.68
1:AV:383:LEU:HA	1:AV:430:MET:CE	2.23	0.68
1:AW:291:VAL:HG23	1:AW:295:THR:CG2	2.23	0.68
1:A3:256:SER:HA	1:A3:275:VAL:O	1.94	0.68
1:A5:98:GLN:HG2	1:A5:112:LEU:HD21	1.76	0.68
1:A7:4:ARG:NH2	1:AP:472:GLN:HG2	2.09	0.68
1:A9:173:ARG:HH12	1:A9:378:GLU:HB3	1.59	0.68
1:AD:9:ILE:HD11	1:AI:468:ALA:HA	1.74	0.68
1:AE:264:ILE:HD11	1:AE:295:THR:HG21	1.74	0.68
1:AG:501:GLN:O	1:AG:505:VAL:HG13	1.94	0.68
1:AJ:370:PHE:HA	1:AJ:376:VAL:CG1	2.23	0.68
1:AJ:451:GLU:HG2	1:AU:122:GLU:HG3	1.75	0.68
1:AM:302:ASP:HB3	1:AM:308:ASN:HD21	1.59	0.68
1:AO:224:ILE:HD11	1:AO:246:VAL:HG22	1.75	0.68
1:AP:88:ILE:HG22	1:AP:92:ILE:HD11	1.75	0.68
1:A1:422:LYS:O	1:A1:426:ILE:HG13	1.93	0.68
1:A1:496:SER:CB	1:AQ:512:LEU:HD23	2.24	0.68
1:A3:370:PHE:HA	1:A3:376:VAL:HG11	1.75	0.68
1:A5:60:ASN:ND2	1:AH:93:LYS:HE2	2.09	0.68
1:A5:260:ARG:NH1	1:A5:323:SER:HB2	2.09	0.68
1:A5:291:VAL:HG23	1:A5:295:THR:CG2	2.24	0.68
1:A8:325:SER:CA	1:A8:330:GLY:HA3	2.24	0.68
1:AA:277:LYS:HG2	1:AA:278:ASN:ND2	2.10	0.68
1:AB:184:MET:HE1	1:AB:345:ILE:CG1	2.20	0.68
1:AC:173:ARG:HD3	1:AC:357:ASP:HA	1.74	0.68
1:AF:312:ILE:HD12	1:AF:312:ILE:H	1.57	0.68
1:AH:251:GLY:N	1:AH:332:GLY:HA3	2.05	0.68
1:AH:426:ILE:HD12	1:AH:426:ILE:H	1.59	0.68
1:AI:249:THR:HG21	1:AI:406:GLN:OE1	1.94	0.68
1:AJ:423:GLY:HA2	1:AJ:426:ILE:HD13	1.75	0.68
1:AJ:490:ILE:HG23	1:AX:510:LEU:HD12	1.75	0.68
1:AN:302:ASP:HB3	1:AN:308:ASN:ND2	2.09	0.68
1:AS:179:PHE:HZ	1:AS:344:VAL:HG13	1.59	0.68
1:AS:203:VAL:HG21	1:AS:209:TYR:HD2	1.58	0.68
1:AS:256:SER:HA	1:AS:275:VAL:O	1.93	0.68
1:AX:65:ILE:CG1	1:AX:459:ILE:HD12	2.23	0.68
1:AX:173:ARG:HD3	1:AX:357:ASP:HA	1.75	0.68
1:AX:249:THR:HG21	1:AX:406:GLN:OE1	1.94	0.68
1:A3:46:SER:CB	1:AT:112:LEU:HD11	2.24	0.67
1:A4:80:LYS:HB3	1:AF:461:VAL:HG11	1.76	0.67
1:A8:171:HIS:CE1	1:A8:382:ASN:HB3	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:224:ILE:HD11	1:AE:246:VAL:CG2	2.23	0.67
1:AH:112:LEU:O	1:AH:116:ILE:HG13	1.94	0.67
1:AR:366:SER:CB	1:AR:371:HIS:HB2	2.23	0.67
1:AU:93:LYS:HE2	1:AX:60:ASN:ND2	2.09	0.67
1:A4:179:PHE:HD1	1:A4:184:MET:HE3	1.60	0.67
1:A9:184:MET:HE1	1:A9:345:ILE:CG1	2.21	0.67
1:AC:173:ARG:CD	1:AC:357:ASP:HA	2.24	0.67
1:AF:36:LEU:HD21	1:AS:6:ASN:ND2	2.10	0.67
1:AG:149:ILE:HD11	1:AG:157:VAL:CG2	2.23	0.67
1:AL:325:SER:HA	1:AL:330:GLY:HA3	1.74	0.67
1:AO:410:ASN:HD21	1:AO:414:ILE:HG22	1.59	0.67
1:AR:370:PHE:HA	1:AR:376:VAL:HG11	1.76	0.67
1:AT:173:ARG:CD	1:AT:357:ASP:HA	2.25	0.67
1:A1:98:GLN:HG2	1:A1:112:LEU:HD21	1.76	0.67
1:A2:93:LYS:HE2	1:AR:60:ASN:ND2	2.08	0.67
1:A6:461:VAL:HG11	1:AW:80:LYS:HB3	1.76	0.67
1:A8:256:SER:HA	1:A8:275:VAL:O	1.94	0.67
1:A9:366:SER:CB	1:A9:371:HIS:HB2	2.24	0.67
1:AB:325:SER:HA	1:AB:330:GLY:HA3	1.75	0.67
1:AB:469:ALA:O	1:AB:473:ILE:HG22	1.94	0.67
1:AC:325:SER:CA	1:AC:330:GLY:HA3	2.25	0.67
1:AC:325:SER:HA	1:AC:330:GLY:HA3	1.74	0.67
1:AD:325:SER:HA	1:AD:330:GLY:HA3	1.76	0.67
1:AH:496:SER:CB	1:AI:512:LEU:HD23	2.24	0.67
1:AL:277:LYS:HG2	1:AL:278:ASN:ND2	2.08	0.67
1:AP:233:ARG:HG2	1:AP:234:PHE:CD2	2.29	0.67
1:AS:508:ASN:CA	1:AS:511:ARG:HG2	2.17	0.67
1:AU:396:SER:HA	1:AU:401:ASN:HD22	1.60	0.67
1:A7:461:VAL:HG11	1:AJ:80:LYS:HB3	1.75	0.67
1:AA:179:PHE:HZ	1:AA:344:VAL:HG13	1.58	0.67
1:AA:291:VAL:HG23	1:AA:295:THR:CG2	2.25	0.67
1:AE:82:MET:O	1:AE:86:ILE:HG13	1.94	0.67
1:AE:256:SER:HA	1:AE:275:VAL:O	1.95	0.67
1:AF:226:ALA:O	1:AF:230:ILE:HG23	1.94	0.67
1:AJ:328:VAL:HG23	1:AJ:329:PHE:CE1	2.29	0.67
1:AO:82:MET:O	1:AO:86:ILE:HG13	1.95	0.67
1:AR:89:LEU:HA	1:AR:92:ILE:CD1	2.23	0.67
1:AU:192:ASN:HA	1:AU:367:HIS:ND1	2.09	0.67
1:AV:78:ALA:O	1:AV:82:MET:HG3	1.93	0.67
1:AV:396:SER:HA	1:AV:401:ASN:HD22	1.60	0.67
1:AW:82:MET:O	1:AW:86:ILE:HG13	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:82:MET:O	1:AX:86:ILE:HG13	1.95	0.67
1:A5:256:SER:HA	1:A5:275:VAL:O	1.95	0.67
1:A5:396:SER:HA	1:A5:401:ASN:HD22	1.60	0.67
1:A9:461:VAL:HG11	1:AA:80:LYS:HB3	1.77	0.67
1:AC:60:ASN:ND2	1:AR:93:LYS:HE2	2.10	0.67
1:AC:82:MET:O	1:AC:86:ILE:HG13	1.95	0.67
1:AD:173:ARG:HD3	1:AD:357:ASP:HA	1.75	0.67
1:AI:396:SER:HA	1:AI:401:ASN:HD22	1.59	0.67
1:AJ:325:SER:CA	1:AJ:330:GLY:HA3	2.24	0.67
1:AK:386:VAL:HG22	1:AK:427:VAL:HG22	1.75	0.67
1:AN:150:GLY:HA3	1:AN:155:THR:HB	1.76	0.67
1:AQ:496:SER:CB	1:AR:512:LEU:HD23	2.25	0.67
1:AR:150:GLY:HA3	1:AR:155:THR:HB	1.77	0.67
1:AW:82:MET:HE3	1:AW:164:THR:HG21	1.76	0.67
1:AW:277:LYS:HG2	1:AW:278:ASN:ND2	2.08	0.67
1:A1:74:MET:HB3	1:A1:137:MET:HE1	1.75	0.67
1:A2:82:MET:O	1:A2:86:ILE:HG13	1.95	0.67
1:A3:167:ASP:HA	1:A3:384:ARG:HB2	1.77	0.67
1:A4:74:MET:HB3	1:A4:137:MET:HE1	1.76	0.67
1:A9:475:ASP:HB2	1:AK:4:ARG:HD3	1.77	0.67
1:AG:93:LYS:HE2	1:AJ:60:ASN:ND2	2.10	0.67
1:AG:104:GLN:HB3	1:AG:108:SER:OG	1.95	0.67
1:AI:82:MET:O	1:AI:86:ILE:HG13	1.95	0.67
1:AM:98:GLN:HG2	1:AM:112:LEU:HD21	1.76	0.67
1:AN:508:ASN:CA	1:AN:511:ARG:HG2	2.20	0.67
1:AO:201:LYS:HB2	1:AO:359:ILE:HG13	1.77	0.67
1:AR:98:GLN:HG2	1:AR:112:LEU:HD21	1.76	0.67
1:A2:291:VAL:O	1:A2:295:THR:HG23	1.94	0.67
1:A5:88:ILE:CD1	1:AD:454:THR:HG21	2.23	0.67
1:A5:455:THR:O	1:A5:459:ILE:HG23	1.94	0.67
1:A7:396:SER:HA	1:A7:401:ASN:HD22	1.60	0.67
1:A8:68:ALA:HB3	1:A8:456:ILE:CD1	2.23	0.67
1:A8:251:GLY:N	1:A8:332:GLY:HA3	2.06	0.67
1:A8:410:ASN:HD21	1:A8:414:ILE:HG22	1.60	0.67
1:A9:186:ALA:CB	1:A9:334:PHE:HB2	2.24	0.67
1:AB:291:VAL:HG23	1:AB:295:THR:HG21	1.76	0.67
1:AD:82:MET:CE	1:AD:441:ILE:HG22	2.17	0.67
1:AD:224:ILE:HD11	1:AD:246:VAL:HG22	1.76	0.67
1:AE:423:GLY:HA2	1:AE:426:ILE:CD1	2.24	0.67
1:AF:149:ILE:HD12	1:AF:455:THR:HG21	1.75	0.67
1:AF:291:VAL:O	1:AF:295:THR:HG23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:184:MET:HE1	1:AG:345:ILE:CG1	2.23	0.67
1:AJ:260:ARG:NH1	1:AJ:323:SER:HB2	2.09	0.67
1:AJ:291:VAL:HG23	1:AJ:295:THR:HG21	1.76	0.67
1:AK:291:VAL:O	1:AK:295:THR:HG23	1.95	0.67
1:AO:256:SER:HA	1:AO:275:VAL:O	1.95	0.67
1:AP:82:MET:O	1:AP:86:ILE:HG13	1.94	0.67
1:AQ:184:MET:HE1	1:AQ:345:ILE:CG1	2.24	0.67
1:AR:302:ASP:HB3	1:AR:308:ASN:ND2	2.09	0.67
1:AU:302:ASP:HB3	1:AU:308:ASN:ND2	2.10	0.67
1:A1:291:VAL:O	1:A1:295:THR:HG23	1.95	0.67
1:A1:396:SER:HA	1:A1:401:ASN:HD22	1.59	0.67
1:A3:348:LEU:HD21	1:A3:350:LEU:CD2	2.25	0.67
1:A3:458:ASN:ND2	1:AL:126:ILE:HG12	2.10	0.67
1:A6:508:ASN:CA	1:A6:511:ARG:HG2	2.17	0.67
1:A7:256:SER:HA	1:A7:275:VAL:O	1.94	0.67
1:A9:108:SER:O	1:A9:112:LEU:HD12	1.94	0.67
1:AC:291:VAL:HG23	1:AC:295:THR:CG2	2.24	0.67
1:AD:149:ILE:HD11	1:AD:157:VAL:CG2	2.25	0.67
1:AD:247:MET:HE3	1:AD:402:ALA:CB	2.25	0.67
1:AF:116:ILE:HD13	1:AF:418:VAL:HG21	1.77	0.67
1:AK:366:SER:CB	1:AK:371:HIS:HB2	2.25	0.67
1:AL:325:SER:CA	1:AL:330:GLY:HA3	2.25	0.67
1:AP:366:SER:CB	1:AP:371:HIS:HB2	2.24	0.67
1:AS:35:GLY:O	1:AS:476:VAL:HG12	1.93	0.67
1:AT:104:GLN:HB3	1:AT:108:SER:OG	1.95	0.67
1:AV:291:VAL:HG23	1:AV:295:THR:HG21	1.75	0.67
1:AW:366:SER:CB	1:AW:371:HIS:HB2	2.25	0.67
1:A2:117:GLN:NE2	1:A2:387:ARG:HD2	2.08	0.67
1:A3:146:GLU:HG2	1:AS:421:LEU:HD21	1.76	0.67
1:A4:396:SER:HA	1:A4:401:ASN:HD22	1.59	0.67
1:A4:485:PHE:CE2	1:AF:501:GLN:HG3	2.30	0.67
1:A7:167:ASP:HA	1:A7:384:ARG:HB2	1.76	0.67
1:A7:510:LEU:HD12	1:AL:490:ILE:HG23	1.76	0.67
1:AC:383:LEU:HA	1:AC:430:MET:CE	2.24	0.67
1:AD:173:ARG:CD	1:AD:357:ASP:HA	2.25	0.67
1:AE:249:THR:HG21	1:AE:406:GLN:OE1	1.94	0.67
1:AE:251:GLY:N	1:AE:332:GLY:HA3	2.09	0.67
1:AE:260:ARG:NH1	1:AE:323:SER:HB2	2.09	0.67
1:AF:469:ALA:O	1:AF:473:ILE:HG22	1.94	0.67
1:AM:256:SER:HA	1:AM:275:VAL:O	1.95	0.67
1:AP:179:PHE:CD1	1:AP:184:MET:HE3	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:186:ALA:HB3	1:AR:334:PHE:HB2	1.77	0.67
1:AT:99:ALA:HA	1:AT:104:GLN:OE1	1.94	0.67
1:AU:35:GLY:O	1:AU:476:VAL:HG12	1.95	0.67
1:AV:504:ALA:O	1:AV:507:GLN:HG3	1.95	0.67
1:A3:89:LEU:HA	1:A3:92:ILE:HD12	1.77	0.67
1:A4:88:ILE:HG22	1:A4:92:ILE:HD11	1.76	0.67
1:A5:167:ASP:HA	1:A5:384:ARG:HB2	1.75	0.67
1:A6:81:ALA:HB3	1:A6:138:LEU:HD11	1.76	0.67
1:A7:17:VAL:HG21	1:AJ:33:SER:HB2	1.77	0.67
1:A7:68:ALA:HB3	1:A7:456:ILE:CD1	2.25	0.67
1:A9:120:LEU:HD21	1:A9:383:LEU:CG	2.24	0.67
1:AG:4:ARG:HG2	1:AW:475:ASP:CB	2.23	0.67
1:AH:291:VAL:HG23	1:AH:295:THR:HG21	1.77	0.67
1:AH:495:GLY:O	1:AH:499:MET:HG3	1.95	0.67
1:AJ:259:VAL:CG2	1:AJ:328:VAL:HG21	2.25	0.67
1:AL:82:MET:O	1:AL:86:ILE:HG13	1.95	0.67
1:AV:173:ARG:HH12	1:AV:378:GLU:HB3	1.59	0.67
1:AV:179:PHE:HZ	1:AV:344:VAL:HG13	1.60	0.67
1:AW:173:ARG:CD	1:AW:357:ASP:HA	2.24	0.67
1:AX:224:ILE:HD11	1:AX:246:VAL:HG22	1.75	0.67
1:AX:256:SER:HA	1:AX:275:VAL:O	1.95	0.67
1:A7:445:MET:HA	1:A7:445:MET:HE2	1.76	0.66
1:A9:116:ILE:HD12	1:A9:418:VAL:HG21	1.76	0.66
1:AB:116:ILE:HD12	1:AB:418:VAL:HG21	1.77	0.66
1:AB:256:SER:HA	1:AB:275:VAL:O	1.95	0.66
1:AF:68:ALA:HB3	1:AF:456:ILE:CD1	2.25	0.66
1:AG:82:MET:O	1:AG:86:ILE:HG13	1.95	0.66
1:AG:247:MET:HE1	1:AJ:144:ASN:ND2	2.11	0.66
1:AJ:505:VAL:HG21	1:AU:25:LEU:CD2	2.23	0.66
1:AK:88:ILE:HG22	1:AK:92:ILE:HD11	1.77	0.66
1:AK:98:GLN:HG2	1:AK:112:LEU:HD21	1.75	0.66
1:AQ:60:ASN:ND2	1:AV:93:LYS:HE2	2.09	0.66
1:AW:88:ILE:HG22	1:AW:92:ILE:HD11	1.75	0.66
1:A2:461:VAL:HG11	1:AV:80:LYS:HB3	1.77	0.66
1:A2:496:SER:CB	1:AM:512:LEU:HD23	2.25	0.66
1:A6:423:GLY:O	1:A6:427:VAL:HG23	1.95	0.66
1:AB:83:ASP:HB2	1:AB:442:ARG:NH2	2.10	0.66
1:AB:173:ARG:CD	1:AB:357:ASP:HA	2.24	0.66
1:AB:179:PHE:HZ	1:AB:344:VAL:HG13	1.60	0.66
1:AC:256:SER:HA	1:AC:275:VAL:O	1.94	0.66
1:AE:99:ALA:CB	1:AE:112:LEU:HD23	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:186:ALA:CB	1:AI:334:PHE:HB2	2.25	0.66
1:AL:256:SER:HA	1:AL:275:VAL:O	1.95	0.66
1:AO:260:ARG:NH1	1:AO:323:SER:HB2	2.09	0.66
1:AQ:150:GLY:HA3	1:AQ:155:THR:HB	1.77	0.66
1:AX:173:ARG:CD	1:AX:357:ASP:HA	2.26	0.66
1:A1:173:ARG:HD3	1:A1:357:ASP:HA	1.75	0.66
1:A3:445:MET:HE2	1:A3:445:MET:HA	1.77	0.66
1:A5:224:ILE:HD11	1:A5:246:VAL:HG22	1.76	0.66
1:A7:88:ILE:HG22	1:A7:92:ILE:HD11	1.76	0.66
1:AA:103:GLY:HA3	1:AN:74:MET:HE1	1.76	0.66
1:AE:149:ILE:HD11	1:AE:157:VAL:CG2	2.24	0.66
1:AF:98:GLN:HG2	1:AF:112:LEU:HD21	1.75	0.66
1:AG:303:ILE:HA	1:AP:234:PHE:CZ	2.30	0.66
1:AG:495:GLY:O	1:AG:499:MET:HG3	1.96	0.66
1:AI:209:TYR:HE2	1:AI:237:THR:HG22	1.58	0.66
1:AI:386:VAL:HG23	1:AI:430:MET:CE	2.22	0.66
1:AJ:366:SER:HB2	1:AJ:371:HIS:HB2	1.76	0.66
1:AL:251:GLY:N	1:AL:332:GLY:HA3	2.08	0.66
1:AL:366:SER:HB2	1:AL:371:HIS:HB2	1.75	0.66
1:AR:303:ILE:HD12	1:AU:234:PHE:CD2	2.31	0.66
1:AT:120:LEU:HD11	1:AT:166:SER:HB2	1.76	0.66
1:AU:179:PHE:HZ	1:AU:344:VAL:HG13	1.60	0.66
1:AW:291:VAL:O	1:AW:295:THR:HG23	1.94	0.66
1:AW:365:PHE:HZ	1:AW:371:HIS:HD1	1.43	0.66
1:A1:149:ILE:HD11	1:A1:157:VAL:HG23	1.76	0.66
1:A1:256:SER:HA	1:A1:275:VAL:O	1.95	0.66
1:A3:291:VAL:HG23	1:A3:295:THR:CG2	2.25	0.66
1:A6:82:MET:O	1:A6:86:ILE:HG13	1.95	0.66
1:A7:251:GLY:N	1:A7:332:GLY:HA3	2.10	0.66
1:A8:4:ARG:NH1	1:AN:472:GLN:HA	2.11	0.66
1:A9:469:ALA:O	1:A9:473:ILE:HG22	1.94	0.66
1:A9:496:SER:CB	1:AH:512:LEU:HD23	2.25	0.66
1:AB:475:ASP:CB	1:AH:4:ARG:HG2	2.25	0.66
1:AK:82:MET:O	1:AK:86:ILE:HG13	1.95	0.66
1:AN:82:MET:O	1:AN:86:ILE:HG13	1.95	0.66
1:AP:506:GLN:O	1:AP:509:VAL:HG12	1.95	0.66
1:AU:366:SER:CB	1:AU:371:HIS:HB2	2.26	0.66
1:AW:15:HIS:O	1:AW:19:VAL:HG12	1.96	0.66
1:A2:80:LYS:HB3	1:AM:461:VAL:HG11	1.78	0.66
1:A3:260:ARG:NH1	1:A3:323:SER:HB2	2.09	0.66
1:A4:173:ARG:CD	1:A4:357:ASP:HA	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:395:ALA:HB2	1:A5:414:ILE:HG23	1.78	0.66
1:A9:82:MET:O	1:A9:86:ILE:HG13	1.96	0.66
1:AA:249:THR:HG22	1:AA:403:ASN:ND2	2.11	0.66
1:AD:224:ILE:HD13	1:AD:345:ILE:O	1.95	0.66
1:AH:302:ASP:HB3	1:AH:308:ASN:ND2	2.10	0.66
1:AJ:99:ALA:HB2	1:AJ:112:LEU:HD23	1.77	0.66
1:AL:291:VAL:HG23	1:AL:295:THR:CG2	2.26	0.66
1:AN:89:LEU:HA	1:AN:92:ILE:HD13	1.77	0.66
1:AN:224:ILE:HD13	1:AN:345:ILE:O	1.96	0.66
1:AP:99:ALA:HB2	1:AP:112:LEU:CD2	2.26	0.66
1:AS:224:ILE:HG13	1:AS:244:TYR:HB2	1.77	0.66
1:AU:186:ALA:CB	1:AU:334:PHE:HB2	2.26	0.66
1:AU:277:LYS:HG2	1:AU:278:ASN:ND2	2.11	0.66
1:AU:279:ASP:HB3	1:AU:301:LEU:HD11	1.78	0.66
1:AU:291:VAL:HG23	1:AU:295:THR:CG2	2.25	0.66
1:AW:184:MET:HE1	1:AW:345:ILE:CG1	2.21	0.66
1:A3:292:LYS:HD3	1:A3:298:GLU:HA	1.78	0.66
1:A4:262:LEU:HD12	1:A4:263:THR:N	2.10	0.66
1:A6:116:ILE:HD12	1:A6:418:VAL:HG21	1.78	0.66
1:A8:291:VAL:O	1:A8:295:THR:HG23	1.96	0.66
1:AB:504:ALA:O	1:AB:507:GLN:HG3	1.96	0.66
1:AC:260:ARG:NH1	1:AC:323:SER:HB2	2.11	0.66
1:AD:88:ILE:HG22	1:AD:92:ILE:HD11	1.77	0.66
1:AF:74:MET:HB3	1:AF:137:MET:HE1	1.76	0.66
1:AG:512:LEU:HD23	1:AM:496:SER:CB	2.26	0.66
1:AL:144:ASN:ND2	1:AT:247:MET:HE1	2.10	0.66
1:AO:117:GLN:NE2	1:AO:387:ARG:HD2	2.11	0.66
1:AP:370:PHE:HA	1:AP:376:VAL:HG11	1.77	0.66
1:AR:179:PHE:HA	1:AR:184:MET:SD	2.35	0.66
1:AS:89:LEU:HD23	1:AS:92:ILE:HD13	1.78	0.66
1:AS:260:ARG:NH1	1:AS:323:SER:HB2	2.10	0.66
1:AW:116:ILE:HD12	1:AW:418:VAL:HG21	1.77	0.66
1:AW:186:ALA:CB	1:AW:334:PHE:HB2	2.25	0.66
1:A2:173:ARG:CD	1:A2:357:ASP:HA	2.26	0.66
1:A2:179:PHE:HZ	1:A2:344:VAL:HG13	1.61	0.66
1:A2:490:ILE:HG22	1:AQ:510:LEU:HD12	1.76	0.66
1:A3:249:THR:HG21	1:A3:406:GLN:OE1	1.95	0.66
1:A7:325:SER:HA	1:A7:330:GLY:HA3	1.77	0.66
1:AC:302:ASP:HB3	1:AC:308:ASN:HD21	1.61	0.66
1:AD:249:THR:HG21	1:AD:406:GLN:OE1	1.96	0.66
1:AR:78:ALA:HB2	1:AR:137:MET:HE3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:211:ILE:HD12	1:AR:234:PHE:HD1	1.61	0.66
1:AT:383:LEU:HA	1:AT:430:MET:CE	2.26	0.66
1:AX:259:VAL:HB	1:AX:272:VAL:HG22	1.76	0.66
1:A1:469:ALA:O	1:A1:473:ILE:HG22	1.94	0.66
1:A3:92:ILE:CG2	1:A3:116:ILE:HG23	2.26	0.66
1:A4:83:ASP:HB2	1:A4:442:ARG:NH2	2.11	0.66
1:A5:249:THR:HG22	1:A5:403:ASN:ND2	2.11	0.66
1:A9:312:ILE:H	1:A9:312:ILE:HD12	1.59	0.66
1:AC:249:THR:HG21	1:AC:406:GLN:OE1	1.96	0.66
1:AC:251:GLY:N	1:AC:332:GLY:HA3	2.09	0.66
1:AH:184:MET:HE1	1:AH:345:ILE:CG1	2.26	0.66
1:AN:291:VAL:HG23	1:AN:295:THR:CG2	2.26	0.66
1:A1:365:PHE:HZ	1:A1:371:HIS:HD1	1.42	0.66
1:A2:149:ILE:HD11	1:A2:157:VAL:CG2	2.26	0.66
1:A2:472:GLN:HA	1:AR:4:ARG:NH1	2.10	0.66
1:AA:224:ILE:HD13	1:AA:345:ILE:O	1.95	0.66
1:AB:88:ILE:HG22	1:AB:92:ILE:HD11	1.78	0.66
1:AB:93:LYS:HG2	1:AH:60:ASN:HD21	1.60	0.66
1:AB:481:GLU:OE2	1:AB:481:GLU:HA	1.96	0.66
1:AD:291:VAL:HG23	1:AD:295:THR:HG21	1.78	0.66
1:AH:92:ILE:HD11	1:AH:119:LEU:HB3	1.78	0.66
1:AI:88:ILE:HG22	1:AI:92:ILE:HD11	1.77	0.66
1:AI:445:MET:HE2	1:AI:445:MET:HA	1.78	0.66
1:AL:99:ALA:HB2	1:AL:112:LEU:CD2	2.26	0.66
1:AP:92:ILE:HD12	1:AP:92:ILE:H	1.61	0.66
1:AP:263:THR:HG22	1:AP:268:GLU:HA	1.77	0.66
1:AT:157:VAL:HG11	1:AT:452:LEU:HD21	1.78	0.66
1:AT:186:ALA:CB	1:AT:334:PHE:HB2	2.26	0.66
1:AU:167:ASP:HA	1:AU:384:ARG:HB2	1.77	0.66
1:AV:184:MET:HE1	1:AV:345:ILE:CG1	2.20	0.66
1:AV:251:GLY:N	1:AV:332:GLY:HA3	2.07	0.66
1:A1:133:ASN:HD21	1:AQ:50:ILE:HD11	1.60	0.66
1:A1:366:SER:CB	1:A1:371:HIS:HB2	2.26	0.66
1:A2:366:SER:CB	1:A2:371:HIS:HB2	2.25	0.66
1:A4:15:HIS:O	1:A4:19:VAL:HG12	1.95	0.66
1:A5:82:MET:O	1:A5:86:ILE:HG13	1.96	0.66
1:A6:68:ALA:HB3	1:A6:456:ILE:CD1	2.26	0.66
1:A6:472:GLN:HA	1:AP:4:ARG:HE	1.61	0.66
1:A7:144:ASN:ND2	1:AP:247:MET:HE1	2.11	0.66
1:A7:325:SER:CA	1:A7:330:GLY:HA3	2.26	0.66
1:A9:179:PHE:HZ	1:A9:344:VAL:HG13	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:15:HIS:O	1:AB:19:VAL:HG12	1.96	0.66
1:AF:92:ILE:CG2	1:AF:116:ILE:HG12	2.24	0.66
1:AK:291:VAL:HG23	1:AK:295:THR:CG2	2.26	0.66
1:AL:110:ARG:NH1	1:AL:110:ARG:HB2	2.11	0.66
1:AL:423:GLY:HA2	1:AL:426:ILE:HD13	1.78	0.66
1:AO:149:ILE:HD11	1:AO:157:VAL:HG23	1.78	0.66
1:AR:8:ASN:HB3	1:AR:11:ALA:HB3	1.78	0.66
1:AT:120:LEU:CD1	1:AT:383:LEU:HG	2.25	0.66
1:AV:174:MET:HE1	1:AV:398:ALA:HB2	1.76	0.66
1:AW:108:SER:O	1:AW:112:LEU:HD12	1.96	0.66
1:AW:455:THR:O	1:AW:459:ILE:HG23	1.96	0.66
1:AX:117:GLN:HE21	1:AX:387:ARG:HD2	1.61	0.66
1:A3:251:GLY:N	1:A3:332:GLY:HA3	2.11	0.65
1:A3:325:SER:CA	1:A3:330:GLY:HA3	2.26	0.65
1:A4:366:SER:CB	1:A4:371:HIS:HB2	2.25	0.65
1:A4:496:SER:CB	1:AF:512:LEU:HD23	2.25	0.65
1:AA:490:ILE:HG22	1:AF:510:LEU:HD12	1.75	0.65
1:AD:251:GLY:N	1:AD:332:GLY:HA3	2.10	0.65
1:AD:260:ARG:NH1	1:AD:323:SER:HB2	2.11	0.65
1:AF:82:MET:O	1:AF:86:ILE:HG13	1.96	0.65
1:AF:186:ALA:CB	1:AF:334:PHE:HB2	2.25	0.65
1:AJ:5:ILE:HD13	1:AP:490:ILE:HG21	1.79	0.65
1:AL:161:ILE:CG2	1:AL:445:MET:HE1	2.25	0.65
1:AL:370:PHE:HA	1:AL:376:VAL:HG11	1.77	0.65
1:AL:499:MET:CE	1:AS:479:ALA:HB1	2.25	0.65
1:AN:203:VAL:HG21	1:AN:209:TYR:CD2	2.31	0.65
1:AQ:291:VAL:HG23	1:AQ:295:THR:CG2	2.25	0.65
1:AS:82:MET:O	1:AS:86:ILE:HG13	1.96	0.65
1:AS:302:ASP:HB3	1:AS:308:ASN:HD21	1.61	0.65
1:AV:175:GLU:OE2	1:AV:358:ILE:HB	1.96	0.65
1:A2:469:ALA:O	1:A2:473:ILE:HG22	1.96	0.65
1:AA:108:SER:O	1:AA:112:LEU:HD12	1.95	0.65
1:AE:120:LEU:HD22	1:AE:387:ARG:HD3	1.77	0.65
1:AE:325:SER:CA	1:AE:330:GLY:HA3	2.26	0.65
1:AL:260:ARG:O	1:AL:261:GLU:HG2	1.96	0.65
1:AN:149:ILE:HD11	1:AN:157:VAL:CG2	2.27	0.65
1:AO:60:ASN:ND2	1:AQ:93:LYS:HE2	2.11	0.65
1:AP:445:MET:HA	1:AP:445:MET:HE2	1.78	0.65
1:A1:126:ILE:HG12	1:AQ:458:ASN:HD22	1.60	0.65
1:A6:263:THR:HG22	1:A6:268:GLU:HA	1.78	0.65
1:AA:15:HIS:O	1:AA:19:VAL:HG12	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:82:MET:HE1	1:AH:441:ILE:CG2	2.26	0.65
1:AK:451:GLU:HG3	1:AN:122:GLU:CG	2.21	0.65
1:AL:201:LYS:HB2	1:AL:359:ILE:CD1	2.26	0.65
1:AN:491:LEU:HD11	1:AS:6:ASN:OD1	1.96	0.65
1:AO:445:MET:HE2	1:AO:445:MET:HA	1.79	0.65
1:AV:15:HIS:O	1:AV:19:VAL:HG12	1.96	0.65
1:A2:161:ILE:HG12	1:A2:445:MET:HE2	1.79	0.65
1:A4:422:LYS:O	1:A4:426:ILE:HD12	1.96	0.65
1:A5:291:VAL:O	1:A5:295:THR:HG23	1.97	0.65
1:AC:139:SER:OG	1:AU:233:ARG:HG3	1.96	0.65
1:AC:501:GLN:HG3	1:AO:485:PHE:CE2	2.31	0.65
1:AF:173:ARG:CD	1:AF:357:ASP:HA	2.25	0.65
1:AJ:179:PHE:CD1	1:AJ:184:MET:HE3	2.28	0.65
1:AJ:251:GLY:N	1:AJ:332:GLY:HA3	2.09	0.65
1:AK:201:LYS:HB2	1:AK:359:ILE:CD1	2.26	0.65
1:AM:224:ILE:HD13	1:AM:345:ILE:O	1.97	0.65
1:AM:472:GLN:HA	1:AU:4:ARG:NH1	2.10	0.65
1:AN:8:ASN:HB3	1:AN:11:ALA:HB3	1.77	0.65
1:AN:71:ALA:O	1:AN:75:VAL:HG23	1.96	0.65
1:AO:277:LYS:HG2	1:AO:278:ASN:ND2	2.10	0.65
1:AU:260:ARG:NH1	1:AU:323:SER:HB2	2.11	0.65
1:A3:263:THR:CG2	1:A3:268:GLU:HG3	2.26	0.65
1:A5:149:ILE:HD11	1:A5:157:VAL:CG2	2.27	0.65
1:A5:485:PHE:CE2	1:AD:501:GLN:HG3	2.32	0.65
1:A6:120:LEU:HD11	1:A6:383:LEU:HG	1.78	0.65
1:AC:88:ILE:HG22	1:AC:92:ILE:HD11	1.78	0.65
1:AC:225:GLY:HA2	1:AC:244:TYR:CD2	2.31	0.65
1:AE:291:VAL:HG23	1:AE:295:THR:HG21	1.78	0.65
1:AG:88:ILE:HG22	1:AG:92:ILE:HD11	1.77	0.65
1:AJ:5:ILE:HD13	1:AP:490:ILE:CG2	2.27	0.65
1:AL:426:ILE:HD12	1:AL:426:ILE:H	1.61	0.65
1:AN:277:LYS:HG2	1:AN:278:ASN:ND2	2.11	0.65
1:AS:291:VAL:HG23	1:AS:295:THR:CG2	2.27	0.65
1:AV:88:ILE:HG22	1:AV:92:ILE:HD11	1.78	0.65
1:AW:68:ALA:HB3	1:AW:456:ILE:CD1	2.22	0.65
1:AW:120:LEU:HD21	1:AW:383:LEU:CG	2.24	0.65
1:AX:251:GLY:N	1:AX:332:GLY:HA3	2.12	0.65
1:AX:325:SER:CA	1:AX:330:GLY:HA3	2.27	0.65
1:A2:93:LYS:HE2	1:AR:60:ASN:HD21	1.61	0.65
1:A4:490:ILE:HG22	1:A6:510:LEU:HD12	1.79	0.65
1:A5:260:ARG:O	1:A5:261:GLU:HG2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:256:SER:HA	1:AA:275:VAL:O	1.97	0.65
1:AA:283:ARG:HH12	1:AN:380:THR:HB	1.61	0.65
1:AB:93:LYS:HE2	1:AH:60:ASN:HD21	1.62	0.65
1:AE:262:LEU:HD11	1:AE:319:VAL:HG22	1.76	0.65
1:AE:291:VAL:O	1:AE:295:THR:HG23	1.96	0.65
1:AG:206:VAL:HG11	1:AW:294:ARG:NH2	2.11	0.65
1:AH:337:ILE:HG22	1:AH:342:HIS:CD2	2.32	0.65
1:AI:81:ALA:HB3	1:AI:138:LEU:HD11	1.79	0.65
1:AI:291:VAL:O	1:AI:295:THR:HG23	1.97	0.65
1:AJ:291:VAL:O	1:AJ:295:THR:HG23	1.96	0.65
1:AJ:451:GLU:CG	1:AU:122:GLU:HG3	2.27	0.65
1:AL:184:MET:HE1	1:AL:345:ILE:CG1	2.27	0.65
1:AN:291:VAL:O	1:AN:295:THR:HG23	1.97	0.65
1:AO:116:ILE:HD12	1:AO:418:VAL:HG21	1.77	0.65
1:AU:291:VAL:O	1:AU:295:THR:HG23	1.97	0.65
1:AV:249:THR:HG22	1:AV:403:ASN:ND2	2.12	0.65
1:AX:370:PHE:HA	1:AX:376:VAL:CG1	2.27	0.65
1:A2:83:ASP:HB2	1:A2:442:ARG:NH2	2.11	0.65
1:A2:186:ALA:CB	1:A2:334:PHE:HB2	2.27	0.65
1:A2:505:VAL:HG21	1:AV:25:LEU:HD21	1.77	0.65
1:A3:383:LEU:HA	1:A3:430:MET:CE	2.27	0.65
1:A6:186:ALA:CB	1:A6:334:PHE:HB2	2.27	0.65
1:A7:60:ASN:ND2	1:AP:93:LYS:HG2	2.10	0.65
1:A7:82:MET:O	1:A7:86:ILE:HG13	1.97	0.65
1:A8:451:GLU:HG3	1:AS:122:GLU:CB	2.23	0.65
1:AA:82:MET:HE2	1:AA:438:LEU:HD22	1.78	0.65
1:AA:174:MET:HE1	1:AA:398:ALA:HB2	1.77	0.65
1:AB:175:GLU:OE2	1:AB:358:ILE:HB	1.95	0.65
1:AC:370:PHE:HA	1:AC:376:VAL:CG1	2.27	0.65
1:AC:423:GLY:HA2	1:AC:426:ILE:CD1	2.27	0.65
1:AD:179:PHE:CD1	1:AD:184:MET:HE3	2.31	0.65
1:AF:179:PHE:HZ	1:AF:344:VAL:HG13	1.62	0.65
1:AG:126:ILE:HG12	1:AP:458:ASN:HD22	1.61	0.65
1:AK:174:MET:HE3	1:AK:398:ALA:HA	1.79	0.65
1:AM:186:ALA:CB	1:AM:334:PHE:HB2	2.27	0.65
1:AM:495:GLY:O	1:AM:499:MET:HG3	1.97	0.65
1:AR:291:VAL:O	1:AR:295:THR:HG23	1.96	0.65
1:AW:458:ASN:O	1:AW:462:THR:HG22	1.95	0.65
1:A6:203:VAL:HG21	1:A6:209:TYR:CD1	2.31	0.65
1:A6:475:ASP:CB	1:AP:4:ARG:HG2	2.27	0.65
1:A8:277:LYS:HG2	1:A8:278:ASN:ND2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:360:VAL:HG23	1:AB:365:PHE:CD1	2.32	0.65
1:AE:513:LEU:CD1	1:AK:479:ALA:HA	2.27	0.65
1:AF:247:MET:HE1	1:AS:144:ASN:HD21	1.61	0.65
1:AF:396:SER:HA	1:AF:401:ASN:HD22	1.62	0.65
1:AG:472:GLN:HA	1:AJ:4:ARG:NH1	2.11	0.65
1:AH:173:ARG:CD	1:AH:357:ASP:HA	2.26	0.65
1:AO:291:VAL:HG23	1:AO:295:THR:CG2	2.27	0.65
1:AP:260:ARG:NH1	1:AP:323:SER:HB2	2.11	0.65
1:AR:277:LYS:HG2	1:AR:278:ASN:ND2	2.12	0.65
1:AR:383:LEU:HA	1:AR:430:MET:CE	2.26	0.65
1:AT:293:ASP:OD1	1:AT:294:ARG:HG3	1.95	0.65
1:AT:366:SER:CB	1:AT:371:HIS:HB2	2.26	0.65
1:AU:249:THR:HG22	1:AU:403:ASN:ND2	2.12	0.65
1:AX:396:SER:HA	1:AX:401:ASN:HD22	1.62	0.65
1:A1:186:ALA:CB	1:A1:334:PHE:HB2	2.27	0.65
1:A3:89:LEU:HD23	1:A3:92:ILE:HD13	1.77	0.65
1:A4:383:LEU:HA	1:A4:430:MET:HE2	1.79	0.65
1:A7:234:PHE:CD2	1:AJ:303:ILE:HD12	2.32	0.65
1:A9:291:VAL:O	1:A9:295:THR:HG23	1.97	0.65
1:AA:469:ALA:O	1:AA:473:ILE:HG22	1.96	0.65
1:AC:277:LYS:HG2	1:AC:278:ASN:ND2	2.11	0.65
1:AE:171:HIS:CD2	1:AE:382:ASN:HB3	2.32	0.65
1:AJ:325:SER:HA	1:AJ:330:GLY:HA3	1.78	0.65
1:AP:291:VAL:O	1:AP:295:THR:HG23	1.97	0.65
1:AQ:437:GLN:CD	1:AV:286:ASN:HD21	2.05	0.65
1:AR:179:PHE:HZ	1:AR:344:VAL:HG13	1.60	0.65
1:AS:370:PHE:HA	1:AS:376:VAL:HG11	1.79	0.65
1:AT:447:SER:HA	1:AT:450:MET:HE2	1.79	0.65
1:AX:260:ARG:NH1	1:AX:323:SER:HB2	2.12	0.65
1:A3:291:VAL:O	1:A3:295:THR:HG23	1.97	0.65
1:A3:455:THR:O	1:A3:459:ILE:HG12	1.96	0.65
1:A6:496:SER:CB	1:AT:512:LEU:HD23	2.27	0.65
1:AA:179:PHE:HD1	1:AA:184:MET:HE2	1.62	0.65
1:AB:250:GLY:O	1:AB:306:ARG:HD2	1.97	0.65
1:AE:291:VAL:HG23	1:AE:295:THR:CG2	2.26	0.65
1:AG:224:ILE:HD13	1:AG:345:ILE:O	1.97	0.65
1:AH:108:SER:O	1:AH:112:LEU:HD12	1.96	0.65
1:AI:370:PHE:HA	1:AI:376:VAL:HG11	1.78	0.65
1:AJ:15:HIS:CE1	1:AP:480:GLU:HB2	2.32	0.65
1:AL:149:ILE:HD11	1:AL:157:VAL:CG2	2.26	0.65
1:AM:215:ARG:NH1	1:AM:215:ARG:HB2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:249:THR:HG22	1:AN:403:ASN:ND2	2.12	0.65
1:AP:224:ILE:HD11	1:AP:246:VAL:CG2	2.26	0.65
1:AR:174:MET:HE1	1:AR:398:ALA:HB2	1.77	0.65
1:AS:248:ALA:HA	1:AS:334:PHE:CZ	2.32	0.65
1:A2:279:ASP:HB3	1:A2:301:LEU:HD11	1.79	0.64
1:A4:103:GLY:CA	1:AT:74:MET:HE1	2.24	0.64
1:A6:179:PHE:HZ	1:A6:344:VAL:HG13	1.61	0.64
1:A8:25:LEU:CD2	1:AE:505:VAL:HG21	2.27	0.64
1:A9:103:GLY:HA2	1:AK:74:MET:HE1	1.79	0.64
1:A9:291:VAL:HG23	1:A9:295:THR:HG21	1.79	0.64
1:AE:370:PHE:HA	1:AE:376:VAL:CG1	2.26	0.64
1:AF:211:ILE:HD11	1:AF:238:LEU:CD1	2.25	0.64
1:AI:277:LYS:HG2	1:AI:278:ASN:ND2	2.11	0.64
1:AL:186:ALA:HB3	1:AL:334:PHE:HB2	1.79	0.64
1:AL:291:VAL:HG23	1:AL:295:THR:HG21	1.80	0.64
1:AM:120:LEU:HD21	1:AM:383:LEU:CG	2.26	0.64
1:AN:250:GLY:O	1:AN:306:ARG:HD2	1.98	0.64
1:AO:370:PHE:HA	1:AO:376:VAL:HG11	1.79	0.64
1:AP:469:ALA:O	1:AP:473:ILE:HG22	1.96	0.64
1:AW:248:ALA:HA	1:AW:334:PHE:CZ	2.32	0.64
1:A3:501:GLN:HG3	1:AL:485:PHE:CE2	2.32	0.64
1:A4:186:ALA:CB	1:A4:334:PHE:HB2	2.27	0.64
1:A4:429:ASP:OD1	1:AT:153:SER:HB3	1.97	0.64
1:A6:475:ASP:HB3	1:AP:4:ARG:HG2	1.79	0.64
1:A7:259:VAL:HB	1:A7:272:VAL:HG22	1.79	0.64
1:AD:167:ASP:HA	1:AD:384:ARG:HB2	1.78	0.64
1:AI:192:ASN:HA	1:AI:367:HIS:ND1	2.12	0.64
1:AL:99:ALA:HB2	1:AL:112:LEU:HD23	1.79	0.64
1:AL:291:VAL:O	1:AL:295:THR:HG23	1.97	0.64
1:AN:337:ILE:HG22	1:AN:342:HIS:CD2	2.32	0.64
1:AO:249:THR:HG22	1:AO:403:ASN:ND2	2.12	0.64
1:AP:259:VAL:CG2	1:AP:328:VAL:HG21	2.27	0.64
1:AQ:303:ILE:HD12	1:AR:234:PHE:CE1	2.32	0.64
1:A2:454:THR:HG21	1:AV:88:ILE:CD1	2.21	0.64
1:A7:291:VAL:HG23	1:A7:295:THR:HG21	1.79	0.64
1:A7:342:HIS:CE1	1:A7:344:VAL:HG23	2.33	0.64
1:AG:291:VAL:O	1:AG:295:THR:HG23	1.96	0.64
1:AH:120:LEU:HD21	1:AH:383:LEU:HG	1.77	0.64
1:AI:422:LYS:O	1:AI:426:ILE:HD13	1.97	0.64
1:AL:501:GLN:HG3	1:AP:485:PHE:CE2	2.33	0.64
1:AM:248:ALA:HA	1:AM:334:PHE:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:291:VAL:O	1:AO:295:THR:HG23	1.97	0.64
1:AQ:485:PHE:CE2	1:AR:501:GLN:HG3	2.32	0.64
1:AR:126:ILE:HG23	1:AU:458:ASN:HD21	1.63	0.64
1:AR:291:VAL:HG23	1:AR:295:THR:CG2	2.27	0.64
1:AS:501:GLN:HG3	1:AT:485:PHE:CE2	2.31	0.64
1:AW:423:GLY:O	1:AW:427:VAL:HG23	1.97	0.64
1:A1:398:ALA:CB	1:A1:426:ILE:HD11	2.27	0.64
1:A1:454:THR:HB	1:AB:122:GLU:OE2	1.97	0.64
1:A7:260:ARG:NH1	1:A7:323:SER:HB2	2.12	0.64
1:A8:279:ASP:HB3	1:A8:301:LEU:HD11	1.80	0.64
1:A9:512:LEU:HD23	1:AA:496:SER:CB	2.27	0.64
1:AA:175:GLU:OE2	1:AA:358:ILE:HB	1.97	0.64
1:AC:88:ILE:CD1	1:AX:454:THR:HG21	2.22	0.64
1:AE:292:LYS:HD3	1:AE:298:GLU:HA	1.79	0.64
1:AG:186:ALA:HB3	1:AG:334:PHE:HB2	1.80	0.64
1:AH:179:PHE:CD1	1:AH:184:MET:HE3	2.33	0.64
1:AH:186:ALA:CB	1:AH:334:PHE:HB2	2.27	0.64
1:AJ:277:LYS:HG2	1:AJ:278:ASN:ND2	2.11	0.64
1:AK:179:PHE:HZ	1:AK:344:VAL:HG13	1.62	0.64
1:AK:186:ALA:HB3	1:AK:334:PHE:HB2	1.78	0.64
1:AK:277:LYS:HG2	1:AK:278:ASN:ND2	2.12	0.64
1:AL:179:PHE:CD1	1:AL:184:MET:HE3	2.31	0.64
1:AP:248:ALA:HA	1:AP:334:PHE:CZ	2.33	0.64
1:AS:458:ASN:HD21	1:AT:126:ILE:HG23	1.63	0.64
1:AV:423:GLY:HA2	1:AV:426:ILE:HD13	1.79	0.64
1:AX:117:GLN:NE2	1:AX:387:ARG:HD2	2.13	0.64
1:A1:458:ASN:HD21	1:AB:126:ILE:HG23	1.62	0.64
1:A3:259:VAL:CG1	1:A3:262:LEU:HB2	2.28	0.64
1:A6:305:GLY:HA3	1:AT:212:GLU:OE2	1.97	0.64
1:A7:249:THR:HG21	1:A7:406:GLN:OE1	1.97	0.64
1:AB:366:SER:CB	1:AB:371:HIS:HB2	2.27	0.64
1:AC:179:PHE:HZ	1:AC:344:VAL:HG13	1.63	0.64
1:AJ:249:THR:HG21	1:AJ:406:GLN:OE1	1.97	0.64
1:AL:249:THR:HG21	1:AL:406:GLN:OE1	1.98	0.64
1:AR:82:MET:O	1:AR:86:ILE:HG13	1.98	0.64
1:AS:291:VAL:O	1:AS:295:THR:HG23	1.97	0.64
1:AU:74:MET:HG2	1:AU:137:MET:CE	2.26	0.64
1:AX:88:ILE:HG22	1:AX:92:ILE:HD11	1.79	0.64
1:A5:92:ILE:HD12	1:A5:92:ILE:H	1.62	0.64
1:A7:291:VAL:HG23	1:A7:295:THR:CG2	2.27	0.64
1:A7:501:GLN:HG3	1:AJ:485:PHE:CE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:8:ASN:HB3	1:A8:11:ALA:HB3	1.79	0.64
1:AB:263:THR:HG22	1:AB:268:GLU:HA	1.79	0.64
1:AJ:149:ILE:HD12	1:AJ:455:THR:HG21	1.80	0.64
1:AO:260:ARG:O	1:AO:261:GLU:HG2	1.96	0.64
1:AP:277:LYS:HG2	1:AP:278:ASN:ND2	2.12	0.64
1:AX:263:THR:CG2	1:AX:268:GLU:HG3	2.28	0.64
1:A3:82:MET:O	1:A3:86:ILE:HG13	1.97	0.64
1:A4:248:ALA:HA	1:A4:334:PHE:CZ	2.33	0.64
1:A5:366:SER:CB	1:A5:371:HIS:HB2	2.27	0.64
1:A6:512:LEU:HD23	1:AW:496:SER:CB	2.26	0.64
1:AB:81:ALA:HB3	1:AB:138:LEU:HD11	1.80	0.64
1:AC:410:ASN:HD21	1:AC:414:ILE:HG22	1.62	0.64
1:AD:184:MET:HE1	1:AD:345:ILE:CG1	2.28	0.64
1:AG:74:MET:HB3	1:AG:137:MET:HE1	1.78	0.64
1:AH:248:ALA:HA	1:AH:334:PHE:CE2	2.33	0.64
1:AK:263:THR:HG22	1:AK:268:GLU:HA	1.78	0.64
1:AL:395:ALA:HB2	1:AL:414:ILE:HG23	1.80	0.64
1:AO:186:ALA:HB3	1:AO:334:PHE:HB2	1.80	0.64
1:AP:249:THR:HG22	1:AP:403:ASN:ND2	2.13	0.64
1:AQ:173:ARG:CD	1:AQ:357:ASP:HA	2.26	0.64
1:AR:71:ALA:O	1:AR:75:VAL:HG23	1.98	0.64
1:AT:88:ILE:HG22	1:AT:92:ILE:HD11	1.78	0.64
1:AX:259:VAL:CG1	1:AX:262:LEU:HB2	2.27	0.64
1:A1:203:VAL:HG21	1:A1:209:TYR:CD2	2.33	0.64
1:A3:48:MET:SD	1:AS:442:ARG:HD3	2.38	0.64
1:A4:89:LEU:HD23	1:A4:92:ILE:HD13	1.79	0.64
1:A4:248:ALA:HA	1:A4:334:PHE:CE2	2.32	0.64
1:A6:34:SER:HA	1:AT:17:VAL:CG1	2.23	0.64
1:A8:249:THR:HG22	1:A8:403:ASN:ND2	2.13	0.64
1:AA:233:ARG:HH11	1:AA:233:ARG:HB3	1.63	0.64
1:AC:291:VAL:O	1:AC:295:THR:HG23	1.97	0.64
1:AE:260:ARG:O	1:AE:261:GLU:HG2	1.97	0.64
1:AH:303:ILE:HA	1:AI:234:PHE:CE2	2.32	0.64
1:AI:131:SER:HB3	1:AI:136:GLN:NE2	2.13	0.64
1:AI:291:VAL:HG23	1:AI:295:THR:CG2	2.28	0.64
1:AM:179:PHE:HZ	1:AM:344:VAL:HG13	1.62	0.64
1:AS:451:GLU:HG3	1:AT:122:GLU:HG3	1.79	0.64
1:AT:370:PHE:HA	1:AT:376:VAL:HG11	1.80	0.64
1:AU:186:ALA:HB3	1:AU:334:PHE:HB2	1.80	0.64
1:AU:187:SER:HB3	1:AU:335:ALA:CB	2.27	0.64
1:AW:312:ILE:HD12	1:AW:312:ILE:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:175:GLU:OE2	1:A1:358:ILE:HB	1.97	0.64
1:A5:179:PHE:HZ	1:A5:344:VAL:HG13	1.63	0.64
1:A7:348:LEU:HD21	1:A7:350:LEU:HD21	1.79	0.64
1:A9:81:ALA:HB3	1:A9:138:LEU:HD11	1.79	0.64
1:AH:81:ALA:HB3	1:AH:138:LEU:HD11	1.79	0.64
1:AK:192:ASN:HA	1:AK:367:HIS:ND1	2.13	0.64
1:AM:93:LYS:HE2	1:AU:60:ASN:ND2	2.13	0.64
1:AM:249:THR:HG22	1:AM:403:ASN:ND2	2.13	0.64
1:AQ:60:ASN:HD21	1:AV:93:LYS:HE2	1.62	0.64
1:AQ:186:ALA:CB	1:AQ:334:PHE:HB2	2.28	0.64
1:AR:396:SER:HA	1:AR:401:ASN:HD22	1.62	0.64
1:AS:89:LEU:HA	1:AS:92:ILE:HD12	1.78	0.64
1:AS:279:ASP:HB3	1:AS:301:LEU:HD11	1.77	0.64
1:A1:150:GLY:HA3	1:A1:155:THR:HB	1.80	0.64
1:A2:175:GLU:OE2	1:A2:358:ILE:HB	1.98	0.64
1:A3:366:SER:CB	1:A3:371:HIS:HB2	2.28	0.64
1:A6:173:ARG:CD	1:A6:357:ASP:HA	2.28	0.64
1:A6:291:VAL:HG23	1:A6:295:THR:CG2	2.26	0.64
1:A7:117:GLN:NE2	1:A7:387:ARG:HD2	2.13	0.64
1:AB:251:GLY:N	1:AB:332:GLY:HA3	2.13	0.64
1:AG:17:VAL:HG11	1:AM:34:SER:HA	1.78	0.64
1:AG:60:ASN:ND2	1:AW:93:LYS:HE2	2.13	0.64
1:AG:250:GLY:O	1:AG:306:ARG:HD2	1.98	0.64
1:AG:291:VAL:HG23	1:AG:295:THR:CG2	2.27	0.64
1:AK:260:ARG:NH1	1:AK:323:SER:HB2	2.13	0.64
1:AM:161:ILE:HG23	1:AM:445:MET:HE1	1.78	0.64
1:AM:383:LEU:HA	1:AM:430:MET:CE	2.27	0.64
1:AN:187:SER:HB3	1:AN:335:ALA:CB	2.28	0.64
1:AP:186:ALA:HB3	1:AP:334:PHE:HB2	1.80	0.64
1:AS:92:ILE:CG2	1:AS:116:ILE:HG23	2.27	0.64
1:AU:260:ARG:O	1:AU:261:GLU:HG2	1.98	0.64
1:AW:179:PHE:HZ	1:AW:344:VAL:HG13	1.63	0.64
1:A1:93:LYS:HE2	1:AI:60:ASN:ND2	2.12	0.63
1:A2:89:LEU:HD23	1:A2:92:ILE:HD13	1.80	0.63
1:A3:98:GLN:HG2	1:A3:112:LEU:HD21	1.80	0.63
1:A3:396:SER:HA	1:A3:401:ASN:HD22	1.63	0.63
1:A5:99:ALA:HB2	1:A5:112:LEU:CD2	2.25	0.63
1:A8:126:ILE:HG12	1:AE:458:ASN:ND2	2.13	0.63
1:A8:366:SER:CB	1:A8:371:HIS:HB2	2.28	0.63
1:AC:263:THR:CG2	1:AC:268:GLU:HG3	2.28	0.63
1:AD:6:ASN:O	1:AO:487:LYS:HE3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:204:ASN:HD21	1:AD:207:ASN:HB2	1.62	0.63
1:AD:325:SER:CA	1:AD:330:GLY:HA3	2.28	0.63
1:AE:184:MET:HE1	1:AE:345:ILE:CG1	2.28	0.63
1:AF:302:ASP:HB3	1:AF:308:ASN:ND2	2.13	0.63
1:AG:192:ASN:HA	1:AG:367:HIS:ND1	2.13	0.63
1:AH:71:ALA:O	1:AH:75:VAL:HG23	1.99	0.63
1:AH:455:THR:O	1:AH:459:ILE:HG23	1.98	0.63
1:AJ:261:GLU:OE2	1:AJ:322:ALA:HB2	1.98	0.63
1:AK:8:ASN:HB3	1:AK:11:ALA:HB3	1.79	0.63
1:AQ:99:ALA:HB2	1:AQ:112:LEU:CD2	2.14	0.63
1:AQ:396:SER:HA	1:AQ:401:ASN:HD22	1.64	0.63
1:AR:508:ASN:CA	1:AR:511:ARG:HG2	2.20	0.63
1:AS:192:ASN:HA	1:AS:367:HIS:ND1	2.13	0.63
1:AU:360:VAL:HG23	1:AU:365:PHE:CD1	2.34	0.63
1:A4:126:ILE:HG23	1:AF:458:ASN:HD21	1.63	0.63
1:A4:173:ARG:HH12	1:A4:378:GLU:HB3	1.62	0.63
1:A4:508:ASN:HA	1:A4:511:ARG:HG2	1.80	0.63
1:A8:46:SER:OG	1:AF:112:LEU:HD11	1.98	0.63
1:A9:175:GLU:OE2	1:A9:358:ILE:HB	1.97	0.63
1:A9:186:ALA:HB3	1:A9:334:PHE:HB2	1.80	0.63
1:AC:396:SER:HA	1:AC:401:ASN:HD22	1.62	0.63
1:AD:124:ASP:OD2	1:AD:166:SER:HB3	1.99	0.63
1:AD:396:SER:HA	1:AD:401:ASN:HD22	1.62	0.63
1:AF:149:ILE:HD11	1:AF:157:VAL:CG2	2.27	0.63
1:AF:291:VAL:HG23	1:AF:295:THR:HG21	1.80	0.63
1:AG:129:THR:HG21	1:AP:155:THR:HG23	1.78	0.63
1:AH:250:GLY:O	1:AH:306:ARG:HD2	1.98	0.63
1:AL:249:THR:HG22	1:AL:403:ASN:ND2	2.13	0.63
1:AQ:380:THR:HB	1:AV:283:ARG:HH12	1.63	0.63
1:AR:249:THR:HG22	1:AR:403:ASN:ND2	2.13	0.63
1:AS:249:THR:HG22	1:AS:403:ASN:ND2	2.13	0.63
1:AW:98:GLN:HG2	1:AW:112:LEU:HD21	1.79	0.63
1:AW:302:ASP:HB3	1:AW:308:ASN:ND2	2.13	0.63
1:AX:325:SER:HA	1:AX:330:GLY:HA3	1.78	0.63
1:AX:489:ASN:O	1:AX:493:GLN:HG2	1.96	0.63
1:A4:184:MET:O	1:A4:189:ALA:HB2	1.98	0.63
1:A5:226:ALA:O	1:A5:230:ILE:HG23	1.98	0.63
1:A6:46:SER:O	1:A6:50:ILE:HG22	1.98	0.63
1:A6:88:ILE:HG22	1:A6:92:ILE:HD11	1.81	0.63
1:A6:150:GLY:HA3	1:A6:155:THR:HB	1.80	0.63
1:A7:291:VAL:O	1:A7:295:THR:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:82:MET:O	1:A8:86:ILE:HG13	1.98	0.63
1:A8:250:GLY:O	1:A8:306:ARG:HD2	1.98	0.63
1:A8:423:GLY:HA2	1:A8:426:ILE:CD1	2.29	0.63
1:A9:122:GLU:CB	1:AH:451:GLU:HG3	2.25	0.63
1:AA:366:SER:CB	1:AA:371:HIS:HB2	2.28	0.63
1:AH:249:THR:HG22	1:AH:403:ASN:ND2	2.14	0.63
1:AI:179:PHE:HD1	1:AI:184:MET:HE2	1.63	0.63
1:AI:260:ARG:O	1:AI:261:GLU:HG2	1.98	0.63
1:AJ:82:MET:O	1:AJ:86:ILE:HG13	1.98	0.63
1:AJ:117:GLN:HE22	1:AJ:387:ARG:HD2	1.63	0.63
1:AK:506:GLN:O	1:AK:509:VAL:HG12	1.99	0.63
1:AM:174:MET:HE1	1:AM:398:ALA:HB2	1.79	0.63
1:AO:380:THR:HB	1:AQ:283:ARG:NH1	2.14	0.63
1:AQ:34:SER:HA	1:AR:17:VAL:CG1	2.27	0.63
1:AR:157:VAL:HG11	1:AR:452:LEU:HD21	1.80	0.63
1:AS:88:ILE:HD11	1:AS:122:GLU:OE1	1.99	0.63
1:AT:250:GLY:O	1:AT:306:ARG:HD2	1.99	0.63
1:AU:259:VAL:CG2	1:AU:328:VAL:HG21	2.28	0.63
1:AV:89:LEU:HD23	1:AV:92:ILE:HD13	1.80	0.63
1:AV:469:ALA:O	1:AV:473:ILE:HG22	1.99	0.63
1:AW:81:ALA:HB3	1:AW:138:LEU:HD11	1.80	0.63
1:AW:249:THR:HG22	1:AW:403:ASN:ND2	2.11	0.63
1:A1:472:GLN:HA	1:AI:4:ARG:NH1	2.12	0.63
1:A2:248:ALA:HA	1:A2:334:PHE:CE2	2.33	0.63
1:A3:383:LEU:HA	1:A3:430:MET:HE2	1.81	0.63
1:A5:186:ALA:HB3	1:A5:334:PHE:HB2	1.80	0.63
1:A5:501:GLN:HG3	1:AK:485:PHE:CE2	2.33	0.63
1:A6:75:VAL:HG13	1:A6:445:MET:CG	2.28	0.63
1:A6:115:ASP:OD1	1:AT:450:MET:HE1	1.98	0.63
1:A8:60:ASN:OD1	1:AN:93:LYS:HE2	1.98	0.63
1:A9:510:LEU:HD12	1:AB:490:ILE:CG2	2.28	0.63
1:AE:150:GLY:HA3	1:AE:155:THR:HB	1.81	0.63
1:AF:175:GLU:OE2	1:AF:358:ILE:HB	1.97	0.63
1:AG:150:GLY:HA3	1:AG:155:THR:HB	1.81	0.63
1:AI:263:THR:HG22	1:AI:268:GLU:HA	1.79	0.63
1:AM:161:ILE:CG2	1:AM:445:MET:HE1	2.28	0.63
1:AM:291:VAL:HG23	1:AM:295:THR:CG2	2.27	0.63
1:AN:186:ALA:HB3	1:AN:334:PHE:HB2	1.80	0.63
1:AP:150:GLY:HA3	1:AP:155:THR:HB	1.80	0.63
1:AQ:60:ASN:HD21	1:AV:93:LYS:HG2	1.64	0.63
1:AR:46:SER:OG	1:AV:112:LEU:HD11	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:83:ASP:HB2	1:AV:442:ARG:NH2	2.13	0.63
1:AW:173:ARG:HH12	1:AW:378:GLU:HB3	1.64	0.63
1:AW:360:VAL:HG23	1:AW:365:PHE:CD1	2.33	0.63
1:AX:179:PHE:HZ	1:AX:344:VAL:HG13	1.63	0.63
1:A1:249:THR:HG22	1:A1:403:ASN:ND2	2.13	0.63
1:A1:490:ILE:HG22	1:AH:510:LEU:HD12	1.79	0.63
1:A2:116:ILE:HD13	1:A2:418:VAL:HG21	1.80	0.63
1:A2:383:LEU:HA	1:A2:430:MET:CE	2.29	0.63
1:A4:249:THR:HG22	1:A4:403:ASN:ND2	2.13	0.63
1:A4:360:VAL:HG23	1:A4:365:PHE:CD1	2.33	0.63
1:A5:5:ILE:HD13	1:AI:490:ILE:CG2	2.28	0.63
1:A7:149:ILE:HD12	1:A7:455:THR:HG21	1.81	0.63
1:A7:224:ILE:HD11	1:A7:246:VAL:HG22	1.79	0.63
1:A7:423:GLY:HA2	1:A7:426:ILE:CD1	2.29	0.63
1:A9:263:THR:HG22	1:A9:268:GLU:HA	1.79	0.63
1:A9:509:VAL:HG12	1:A9:510:LEU:HD23	1.81	0.63
1:AA:495:GLY:O	1:AA:499:MET:HG3	1.98	0.63
1:AG:260:ARG:O	1:AG:261:GLU:HG2	1.98	0.63
1:AG:458:ASN:HD21	1:AM:126:ILE:HG23	1.63	0.63
1:AH:452:LEU:O	1:AH:456:ILE:HG12	1.97	0.63
1:AK:38:ILE:HD11	1:AK:44:ASP:HB3	1.81	0.63
1:AP:291:VAL:HG23	1:AP:295:THR:CG2	2.28	0.63
1:AQ:116:ILE:HD12	1:AQ:418:VAL:HG21	1.80	0.63
1:AQ:179:PHE:HZ	1:AQ:344:VAL:HG13	1.64	0.63
1:AT:302:ASP:HB3	1:AT:308:ASN:HD21	1.63	0.63
1:AV:426:ILE:HD12	1:AV:426:ILE:H	1.62	0.63
1:AW:234:PHE:O	1:AW:238:LEU:HD12	1.98	0.63
1:AX:262:LEU:O	1:AX:269:ILE:HG22	1.99	0.63
1:A1:360:VAL:HG23	1:A1:365:PHE:CD1	2.34	0.63
1:A4:157:VAL:HG11	1:A4:452:LEU:HD21	1.80	0.63
1:A4:283:ARG:HH12	1:AT:380:THR:HB	1.64	0.63
1:A5:370:PHE:HA	1:A5:376:VAL:HG11	1.81	0.63
1:A8:370:PHE:HA	1:A8:376:VAL:HG11	1.81	0.63
1:A9:249:THR:HG22	1:A9:403:ASN:ND2	2.13	0.63
1:AD:186:ALA:HB3	1:AD:334:PHE:HB2	1.81	0.63
1:AE:92:ILE:CG2	1:AE:116:ILE:HG12	2.27	0.63
1:AF:93:LYS:HE2	1:AS:60:ASN:ND2	2.13	0.63
1:AF:249:THR:HG22	1:AF:403:ASN:ND2	2.14	0.63
1:AH:68:ALA:HB1	1:AH:456:ILE:HD11	1.81	0.63
1:AQ:248:ALA:HA	1:AQ:334:PHE:CE2	2.33	0.63
1:AT:8:ASN:HB3	1:AT:11:ALA:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:104:GLN:HB3	1:A1:108:SER:OG	1.98	0.63
1:A1:173:ARG:CD	1:A1:357:ASP:HA	2.28	0.63
1:A1:263:THR:HG22	1:A1:268:GLU:HA	1.80	0.63
1:A2:89:LEU:HA	1:A2:92:ILE:HD12	1.79	0.63
1:A2:263:THR:HG22	1:A2:268:GLU:HA	1.79	0.63
1:A6:249:THR:HG22	1:A6:403:ASN:ND2	2.13	0.63
1:A8:260:ARG:O	1:A8:261:GLU:HG2	1.98	0.63
1:A8:395:ALA:HB2	1:A8:414:ILE:HG23	1.81	0.63
1:AB:260:ARG:O	1:AB:261:GLU:HG2	1.99	0.63
1:AD:179:PHE:HZ	1:AD:344:VAL:HG13	1.64	0.63
1:AD:423:GLY:HA2	1:AD:426:ILE:CD1	2.28	0.63
1:AH:201:LYS:HB2	1:AH:359:ILE:CD1	2.29	0.63
1:AL:120:LEU:HD21	1:AL:166:SER:CB	2.29	0.63
1:AM:99:ALA:CB	1:AM:112:LEU:HD22	2.17	0.63
1:AP:201:LYS:HB2	1:AP:359:ILE:CD1	2.28	0.63
1:AS:263:THR:CG2	1:AS:268:GLU:HG3	2.28	0.63
1:AT:248:ALA:HA	1:AT:334:PHE:CZ	2.34	0.63
1:AW:201:LYS:HB2	1:AW:359:ILE:CD1	2.29	0.63
1:AW:248:ALA:HA	1:AW:334:PHE:CE2	2.34	0.63
1:AW:423:GLY:HA2	1:AW:426:ILE:HD13	1.80	0.63
1:A4:263:THR:HG22	1:A4:268:GLU:HA	1.79	0.63
1:A6:248:ALA:HA	1:A6:334:PHE:CE2	2.33	0.63
1:A9:234:PHE:CE1	1:AA:303:ILE:HA	2.33	0.63
1:AG:248:ALA:HA	1:AG:334:PHE:CE2	2.33	0.63
1:AG:383:LEU:HA	1:AG:430:MET:CE	2.29	0.63
1:AJ:71:ALA:O	1:AJ:75:VAL:HG23	1.99	0.63
1:AK:249:THR:HG21	1:AK:406:GLN:OE1	1.99	0.63
1:AK:260:ARG:O	1:AK:261:GLU:HG2	1.98	0.63
1:AL:248:ALA:HA	1:AL:334:PHE:CZ	2.34	0.63
1:AR:260:ARG:NH1	1:AR:323:SER:HB2	2.14	0.63
1:AS:234:PHE:HB3	1:AS:238:LEU:CD1	2.28	0.63
1:AT:179:PHE:CD1	1:AT:184:MET:HE3	2.34	0.63
1:A1:247:MET:HE1	1:AI:144:ASN:HD21	1.64	0.63
1:A2:249:THR:HG22	1:A2:403:ASN:ND2	2.13	0.63
1:A5:179:PHE:CD1	1:A5:184:MET:HE3	2.32	0.63
1:A5:291:VAL:HG23	1:A5:295:THR:HG21	1.81	0.63
1:A6:360:VAL:HG23	1:A6:365:PHE:CD1	2.33	0.63
1:A9:68:ALA:HB3	1:A9:456:ILE:CD1	2.29	0.63
1:AA:508:ASN:HA	1:AA:511:ARG:HG2	1.79	0.63
1:AB:249:THR:HG22	1:AB:403:ASN:ND2	2.14	0.63
1:AC:154:ASN:H	1:AR:425:MET:HE3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:186:ALA:HB3	1:AE:334:PHE:HB2	1.81	0.63
1:AG:82:MET:HE2	1:AG:138:LEU:HD21	1.81	0.63
1:AG:201:LYS:HB2	1:AG:359:ILE:CD1	2.29	0.63
1:AH:68:ALA:HB3	1:AH:456:ILE:CD1	2.28	0.63
1:AK:71:ALA:O	1:AK:75:VAL:HG23	1.99	0.63
1:AK:184:MET:HE1	1:AK:345:ILE:CG1	2.22	0.63
1:AQ:383:LEU:HA	1:AQ:430:MET:CE	2.29	0.63
1:AS:38:ILE:HD11	1:AS:44:ASP:HB3	1.81	0.63
1:AT:495:GLY:C	1:AT:499:MET:HE3	2.24	0.63
1:AU:8:ASN:HB3	1:AU:11:ALA:HB3	1.80	0.63
1:AV:112:LEU:O	1:AV:116:ILE:HG13	1.99	0.63
1:AV:186:ALA:CB	1:AV:334:PHE:HB2	2.29	0.63
1:AW:89:LEU:HD23	1:AW:92:ILE:HD13	1.81	0.63
1:A2:150:GLY:HA3	1:A2:155:THR:HB	1.81	0.62
1:A2:303:ILE:HA	1:AM:234:PHE:CE1	2.34	0.62
1:A2:511:ARG:HG3	1:A2:512:LEU:N	2.14	0.62
1:A6:303:ILE:HA	1:AT:234:PHE:CE2	2.33	0.62
1:A7:89:LEU:HD23	1:A7:92:ILE:HD13	1.80	0.62
1:A8:146:GLU:OE1	1:A8:156:THR:HG21	1.99	0.62
1:AA:260:ARG:O	1:AA:261:GLU:HG2	1.98	0.62
1:AE:117:GLN:NE2	1:AE:387:ARG:HD2	2.14	0.62
1:AG:89:LEU:HD23	1:AG:92:ILE:HD13	1.81	0.62
1:AG:370:PHE:HA	1:AG:376:VAL:HG11	1.80	0.62
1:AI:8:ASN:HB3	1:AI:11:ALA:HB3	1.80	0.62
1:AI:120:LEU:HD21	1:AI:166:SER:OG	1.99	0.62
1:AK:249:THR:HG22	1:AK:403:ASN:ND2	2.12	0.62
1:AK:454:THR:HB	1:AN:122:GLU:OE1	1.99	0.62
1:AO:395:ALA:HB2	1:AO:414:ILE:HG23	1.81	0.62
1:AP:260:ARG:O	1:AP:261:GLU:HG2	1.98	0.62
1:AQ:248:ALA:HA	1:AQ:334:PHE:CZ	2.34	0.62
1:AR:192:ASN:HA	1:AR:367:HIS:ND1	2.14	0.62
1:AV:179:PHE:HD1	1:AV:184:MET:HE2	1.64	0.62
1:A2:50:ILE:HD11	1:AV:133:ASN:CG	2.25	0.62
1:A4:89:LEU:HA	1:A4:92:ILE:HD13	1.79	0.62
1:A4:179:PHE:CD1	1:A4:184:MET:HE3	2.34	0.62
1:A5:247:MET:HE3	1:A5:308:ASN:HB3	1.81	0.62
1:A7:230:ILE:HG13	1:A7:231:ILE:N	2.14	0.62
1:A9:249:THR:HG21	1:A9:406:GLN:OE1	2.00	0.62
1:A9:360:VAL:HG23	1:A9:365:PHE:CD1	2.34	0.62
1:AA:248:ALA:HA	1:AA:334:PHE:CZ	2.34	0.62
1:AB:98:GLN:HG2	1:AB:112:LEU:HD21	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:117:GLN:NE2	1:AB:387:ARG:HD2	2.14	0.62
1:AB:173:ARG:HH12	1:AB:378:GLU:HB3	1.64	0.62
1:AC:489:ASN:O	1:AC:493:GLN:HG2	1.99	0.62
1:AF:277:LYS:HG2	1:AF:278:ASN:ND2	2.14	0.62
1:AF:383:LEU:HA	1:AF:430:MET:HE2	1.81	0.62
1:AI:248:ALA:HA	1:AI:334:PHE:CZ	2.34	0.62
1:AI:260:ARG:NH1	1:AI:323:SER:HB2	2.15	0.62
1:AJ:396:SER:HA	1:AJ:401:ASN:HD22	1.64	0.62
1:AK:174:MET:HE1	1:AK:398:ALA:HB2	1.80	0.62
1:AM:81:ALA:HB3	1:AM:138:LEU:HD11	1.80	0.62
1:AP:8:ASN:HB3	1:AP:11:ALA:HB3	1.79	0.62
1:AP:184:MET:HE1	1:AP:345:ILE:CG1	2.30	0.62
1:AQ:157:VAL:HG11	1:AQ:452:LEU:CD2	2.29	0.62
1:AQ:260:ARG:O	1:AQ:261:GLU:HG2	1.99	0.62
1:AV:71:ALA:O	1:AV:75:VAL:HG23	1.99	0.62
1:AX:186:ALA:HB3	1:AX:334:PHE:HB2	1.81	0.62
1:AX:192:ASN:HA	1:AX:367:HIS:ND1	2.14	0.62
1:A1:68:ALA:HB3	1:A1:456:ILE:CD1	2.28	0.62
1:A1:260:ARG:O	1:A1:261:GLU:HG2	1.99	0.62
1:A3:325:SER:HA	1:A3:330:GLY:HA3	1.81	0.62
1:A4:175:GLU:OE2	1:A4:358:ILE:HB	1.98	0.62
1:A7:81:ALA:HB3	1:A7:138:LEU:HD11	1.81	0.62
1:A7:186:ALA:HB3	1:A7:334:PHE:HB2	1.80	0.62
1:A8:184:MET:HE1	1:A8:345:ILE:CG1	2.29	0.62
1:A9:248:ALA:HA	1:A9:334:PHE:CZ	2.34	0.62
1:AA:263:THR:HG22	1:AA:268:GLU:HA	1.80	0.62
1:AF:248:ALA:HA	1:AF:334:PHE:CE2	2.34	0.62
1:AH:8:ASN:HB3	1:AH:11:ALA:HB3	1.80	0.62
1:AH:485:PHE:CE2	1:AI:501:GLN:HG3	2.35	0.62
1:AJ:167:ASP:HA	1:AJ:384:ARG:HB2	1.81	0.62
1:AL:383:LEU:HA	1:AL:430:MET:CE	2.29	0.62
1:AU:88:ILE:HD11	1:AU:122:GLU:OE1	1.98	0.62
1:A1:249:THR:HG21	1:A1:406:GLN:OE1	1.99	0.62
1:A5:4:ARG:NH1	1:AH:472:GLN:HA	2.14	0.62
1:A9:328:VAL:HG12	1:A9:329:PHE:HD1	1.65	0.62
1:A9:510:LEU:HD12	1:AB:490:ILE:HG23	1.81	0.62
1:AB:186:ALA:CB	1:AB:334:PHE:HB2	2.29	0.62
1:AC:146:GLU:HG3	1:AR:421:LEU:HD21	1.82	0.62
1:AG:98:GLN:HG2	1:AG:112:LEU:HD21	1.82	0.62
1:AH:248:ALA:HA	1:AH:334:PHE:CZ	2.34	0.62
1:AH:260:ARG:O	1:AH:261:GLU:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:250:GLY:O	1:AI:306:ARG:HD2	1.98	0.62
1:AJ:179:PHE:HZ	1:AJ:344:VAL:HG13	1.64	0.62
1:AK:155:THR:HG23	1:AN:129:THR:HG21	1.80	0.62
1:AK:386:VAL:HG23	1:AK:430:MET:HE1	1.81	0.62
1:AL:171:HIS:CD2	1:AT:286:ASN:HD22	2.17	0.62
1:AN:260:ARG:NH1	1:AN:323:SER:HB2	2.15	0.62
1:AO:179:PHE:HZ	1:AO:344:VAL:HG13	1.64	0.62
1:AO:366:SER:CB	1:AO:371:HIS:HB2	2.29	0.62
1:AP:104:GLN:HB3	1:AP:108:SER:OG	1.99	0.62
1:AQ:250:GLY:O	1:AQ:306:ARG:HD2	1.98	0.62
1:AS:249:THR:HG21	1:AS:406:GLN:OE1	1.99	0.62
1:AS:396:SER:HA	1:AS:401:ASN:HD22	1.64	0.62
1:AT:260:ARG:O	1:AT:261:GLU:HG2	1.99	0.62
1:AU:370:PHE:HA	1:AU:376:VAL:HG11	1.81	0.62
1:AV:248:ALA:HA	1:AV:334:PHE:CE2	2.35	0.62
1:AX:456:ILE:HD13	1:AX:459:ILE:HD11	1.82	0.62
1:A1:179:PHE:CD1	1:A1:184:MET:HE3	2.34	0.62
1:A8:186:ALA:HB3	1:A8:334:PHE:HB2	1.81	0.62
1:A8:248:ALA:HA	1:A8:334:PHE:CE2	2.35	0.62
1:A9:149:ILE:HD13	1:A9:157:VAL:CG1	2.30	0.62
1:AA:186:ALA:CB	1:AA:334:PHE:HB2	2.30	0.62
1:AB:179:PHE:HD1	1:AB:184:MET:HE2	1.64	0.62
1:AB:249:THR:HG23	1:AB:405:ALA:HB3	1.81	0.62
1:AD:201:LYS:HB2	1:AD:359:ILE:CD1	2.29	0.62
1:AE:248:ALA:HA	1:AE:334:PHE:CZ	2.34	0.62
1:AF:293:ASP:OD2	1:AF:294:ARG:HG3	1.99	0.62
1:AH:370:PHE:HA	1:AH:376:VAL:HG11	1.81	0.62
1:AI:201:LYS:HB2	1:AI:359:ILE:CD1	2.29	0.62
1:AL:89:LEU:HA	1:AL:92:ILE:HD12	1.81	0.62
1:AM:184:MET:O	1:AM:189:ALA:HB2	1.99	0.62
1:AM:234:PHE:HB3	1:AM:238:LEU:HD11	1.81	0.62
1:AM:260:ARG:O	1:AM:261:GLU:HG2	1.99	0.62
1:AM:398:ALA:CB	1:AM:426:ILE:HD11	2.29	0.62
1:AQ:279:ASP:HB3	1:AQ:301:LEU:HD11	1.80	0.62
1:AR:201:LYS:HB2	1:AR:359:ILE:CD1	2.30	0.62
1:AR:248:ALA:HA	1:AR:334:PHE:CZ	2.34	0.62
1:AV:279:ASP:HB3	1:AV:301:LEU:HD11	1.81	0.62
1:AX:249:THR:HG22	1:AX:403:ASN:ND2	2.15	0.62
1:AX:366:SER:CB	1:AX:371:HIS:HB2	2.30	0.62
1:A3:157:VAL:HG11	1:A3:452:LEU:HD21	1.81	0.62
1:A5:511:ARG:HH12	1:A5:512:LEU:HD13	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:81:ALA:HB3	1:A8:138:LEU:HD11	1.82	0.62
1:A9:370:PHE:HA	1:A9:376:VAL:HG11	1.80	0.62
1:AA:82:MET:HE3	1:AA:164:THR:HG21	1.81	0.62
1:AD:78:ALA:O	1:AD:82:MET:HG3	1.99	0.62
1:AD:261:GLU:OE2	1:AD:322:ALA:HB2	1.99	0.62
1:AE:60:ASN:HD21	1:AK:93:LYS:CG	2.12	0.62
1:AE:89:LEU:HA	1:AE:92:ILE:HD12	1.81	0.62
1:AE:263:THR:CG2	1:AE:268:GLU:HG3	2.30	0.62
1:AL:5:ILE:CD1	1:AL:506:GLN:HG2	2.29	0.62
1:AM:360:VAL:HG23	1:AM:365:PHE:CD1	2.34	0.62
1:AN:104:GLN:HB3	1:AN:108:SER:OG	2.00	0.62
1:AO:455:THR:O	1:AO:459:ILE:HG23	1.99	0.62
1:AQ:380:THR:HB	1:AV:283:ARG:NH1	2.15	0.62
1:AR:126:ILE:HG12	1:AU:458:ASN:HD22	1.65	0.62
1:AR:187:SER:HB3	1:AR:335:ALA:CB	2.30	0.62
1:AX:116:ILE:CD1	1:AX:418:VAL:HG21	2.29	0.62
1:AX:247:MET:HE3	1:AX:402:ALA:CB	2.29	0.62
1:A1:33:SER:HB2	1:AQ:17:VAL:HG21	1.81	0.62
1:A1:248:ALA:HA	1:A1:334:PHE:CE2	2.34	0.62
1:A1:291:VAL:HG23	1:A1:295:THR:HG21	1.81	0.62
1:A2:81:ALA:HB3	1:A2:138:LEU:HD11	1.82	0.62
1:A3:99:ALA:HB2	1:A3:112:LEU:CD2	2.27	0.62
1:A3:248:ALA:HA	1:A3:334:PHE:CE2	2.34	0.62
1:A3:380:THR:HB	1:AS:283:ARG:HH12	1.65	0.62
1:A5:511:ARG:NH1	1:A5:512:LEU:HD13	2.13	0.62
1:A6:249:THR:HG21	1:A6:406:GLN:OE1	1.99	0.62
1:AA:283:ARG:NH1	1:AN:380:THR:HB	2.15	0.62
1:AB:283:ARG:HH12	1:AH:380:THR:HB	1.64	0.62
1:AC:186:ALA:HB3	1:AC:334:PHE:HB2	1.82	0.62
1:AD:291:VAL:O	1:AD:295:THR:HG23	1.99	0.62
1:AE:174:MET:HE1	1:AE:398:ALA:HB2	1.81	0.62
1:AF:496:SER:CB	1:AN:512:LEU:HD23	2.27	0.62
1:AH:291:VAL:O	1:AH:295:THR:HG23	1.99	0.62
1:AI:186:ALA:HB3	1:AI:334:PHE:HB2	1.81	0.62
1:AK:386:VAL:HG23	1:AK:430:MET:CE	2.30	0.62
1:AL:88:ILE:HG22	1:AL:92:ILE:HD11	1.80	0.62
1:AL:302:ASP:HB3	1:AL:308:ASN:ND2	2.14	0.62
1:AN:248:ALA:HA	1:AN:334:PHE:CZ	2.35	0.62
1:AN:263:THR:HG22	1:AN:268:GLU:HA	1.80	0.62
1:AT:120:LEU:HD11	1:AT:383:LEU:HG	1.82	0.62
1:AT:187:SER:HB3	1:AT:335:ALA:CB	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:192:ASN:HA	1:AU:367:HIS:CE1	2.34	0.62
1:A1:302:ASP:HB3	1:A1:308:ASN:ND2	2.13	0.62
1:A1:511:ARG:HG3	1:A1:512:LEU:N	2.14	0.62
1:A3:120:LEU:HD21	1:A3:166:SER:CB	2.29	0.62
1:A3:150:GLY:HA3	1:A3:155:THR:HB	1.82	0.62
1:A3:260:ARG:O	1:A3:261:GLU:HG2	1.98	0.62
1:A7:100:ALA:HB2	1:A7:424:ALA:HB1	1.80	0.62
1:A7:366:SER:CB	1:A7:371:HIS:HB2	2.29	0.62
1:AA:247:MET:HE3	1:AA:308:ASN:HB3	1.81	0.62
1:AB:233:ARG:HB3	1:AB:233:ARG:HH11	1.64	0.62
1:AC:199:ASN:HB2	1:AC:210:LYS:HD2	1.80	0.62
1:AJ:76:GLN:O	1:AJ:80:LYS:HG2	1.99	0.62
1:AL:230:ILE:HG13	1:AL:231:ILE:N	2.15	0.62
1:AL:410:ASN:HD21	1:AL:414:ILE:HG22	1.63	0.62
1:AO:380:THR:HB	1:AQ:283:ARG:HH12	1.65	0.62
1:AP:97:VAL:HG22	1:AP:428:MET:SD	2.40	0.62
1:AR:116:ILE:HD12	1:AR:418:VAL:HG21	1.82	0.62
1:AT:71:ALA:O	1:AT:75:VAL:HG23	1.99	0.62
1:AW:260:ARG:O	1:AW:261:GLU:HG2	1.99	0.62
1:AX:423:GLY:HA2	1:AX:426:ILE:HD12	1.82	0.62
1:A1:88:ILE:HD11	1:AQ:454:THR:CG2	2.22	0.62
1:A1:116:ILE:HD13	1:A1:418:VAL:HG21	1.82	0.62
1:A2:174:MET:HE2	1:A2:398:ALA:HA	1.81	0.62
1:A5:76:GLN:O	1:A5:80:LYS:HG2	1.99	0.62
1:A5:250:GLY:O	1:A5:306:ARG:HD2	1.99	0.62
1:A6:211:ILE:CD1	1:A6:238:LEU:HD21	2.29	0.62
1:A7:260:ARG:O	1:A7:261:GLU:HG2	1.99	0.62
1:A8:99:ALA:HB2	1:A8:112:LEU:CD2	2.29	0.62
1:AA:173:ARG:HH12	1:AA:378:GLU:HB3	1.65	0.62
1:AB:294:ARG:NH2	1:AH:206:VAL:HG11	2.14	0.62
1:AE:46:SER:OG	1:AN:112:LEU:HD11	2.00	0.62
1:AE:71:ALA:O	1:AE:75:VAL:HG23	2.00	0.62
1:AF:248:ALA:HA	1:AF:334:PHE:CZ	2.35	0.62
1:AJ:155:THR:HG23	1:AU:129:THR:HG21	1.81	0.62
1:AJ:249:THR:HG22	1:AJ:403:ASN:ND2	2.14	0.62
1:AK:248:ALA:HA	1:AK:334:PHE:CZ	2.35	0.62
1:AL:150:GLY:HA3	1:AL:155:THR:HB	1.82	0.62
1:AM:175:GLU:OE2	1:AM:358:ILE:HB	1.99	0.62
1:AN:370:PHE:HA	1:AN:376:VAL:HG11	1.82	0.62
1:AP:82:MET:HG3	1:AP:138:LEU:CD2	2.29	0.62
1:AQ:249:THR:HG21	1:AQ:406:GLN:OE1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:112:LEU:HD11	1:AX:46:SER:OG	2.00	0.62
1:AT:186:ALA:HB3	1:AT:334:PHE:HB2	1.82	0.62
1:AV:203:VAL:HG21	1:AV:209:TYR:CD2	2.35	0.62
1:AX:150:GLY:HA3	1:AX:155:THR:HB	1.82	0.62
1:A2:68:ALA:HB3	1:A2:456:ILE:CD1	2.30	0.62
1:A5:187:SER:HB3	1:A5:335:ALA:CB	2.30	0.62
1:A5:383:LEU:HA	1:A5:430:MET:CE	2.30	0.62
1:A6:353:THR:HG23	1:A6:433:SER:CB	2.28	0.62
1:A8:71:ALA:O	1:A8:75:VAL:HG23	2.00	0.62
1:A8:485:PHE:CE2	1:AE:501:GLN:HG3	2.35	0.62
1:AA:88:ILE:HG22	1:AA:92:ILE:HD11	1.81	0.62
1:AF:150:GLY:HA3	1:AF:155:THR:HB	1.82	0.62
1:AG:211:ILE:HD12	1:AG:234:PHE:HD2	1.65	0.62
1:AG:212:GLU:OE2	1:AM:305:GLY:HA3	2.00	0.62
1:AG:249:THR:HG22	1:AG:403:ASN:ND2	2.15	0.62
1:AH:249:THR:HG21	1:AH:406:GLN:OE1	1.99	0.62
1:AH:360:VAL:HG23	1:AH:365:PHE:CD1	2.34	0.62
1:AJ:99:ALA:HB2	1:AJ:112:LEU:CD2	2.30	0.62
1:AJ:174:MET:HE1	1:AJ:398:ALA:HB2	1.80	0.62
1:AJ:279:ASP:HB3	1:AJ:301:LEU:HD11	1.81	0.62
1:AK:179:PHE:HD1	1:AK:184:MET:HE2	1.64	0.62
1:AN:260:ARG:O	1:AN:261:GLU:HG2	1.99	0.62
1:AO:360:VAL:HG23	1:AO:365:PHE:CD1	2.35	0.62
1:AP:184:MET:HE1	1:AP:345:ILE:HG12	1.82	0.62
1:AQ:249:THR:HG22	1:AQ:403:ASN:ND2	2.15	0.62
1:AS:211:ILE:HD11	1:AS:238:LEU:HD11	1.81	0.62
1:AT:260:ARG:NH1	1:AT:323:SER:HB2	2.15	0.62
1:AT:291:VAL:HG23	1:AT:295:THR:CG2	2.29	0.62
1:AU:89:LEU:HA	1:AU:92:ILE:HD12	1.80	0.62
1:AU:179:PHE:CZ	1:AU:344:VAL:HG13	2.35	0.62
1:AV:248:ALA:HA	1:AV:334:PHE:CZ	2.34	0.62
1:AX:260:ARG:O	1:AX:261:GLU:HG2	1.99	0.62
1:AX:508:ASN:CA	1:AX:511:ARG:HG2	2.23	0.62
1:A2:184:MET:O	1:A2:189:ALA:HB2	1.99	0.61
1:A2:249:THR:HG21	1:A2:406:GLN:OE1	1.99	0.61
1:A3:382:ASN:ND2	1:AS:281:ASP:HB2	2.15	0.61
1:A5:71:ALA:O	1:A5:75:VAL:HG23	2.00	0.61
1:A6:108:SER:HB3	1:AL:50:ILE:HD11	1.82	0.61
1:A6:175:GLU:OE2	1:A6:358:ILE:HB	1.99	0.61
1:A9:224:ILE:CD1	1:A9:244:TYR:HB2	2.30	0.61
1:AB:5:ILE:HG12	1:AB:510:LEU:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:46:SER:OG	1:AQ:112:LEU:HD11	1.99	0.61
1:AC:426:ILE:O	1:AC:430:MET:HG3	2.00	0.61
1:AD:264:ILE:CG2	1:AD:319:VAL:HG23	2.29	0.61
1:AE:81:ALA:HB3	1:AE:138:LEU:HD11	1.82	0.61
1:AH:186:ALA:HB3	1:AH:334:PHE:HB2	1.82	0.61
1:AM:263:THR:HG22	1:AM:268:GLU:HA	1.82	0.61
1:AO:132:PHE:HB3	1:AO:137:MET:CE	2.29	0.61
1:AP:71:ALA:O	1:AP:75:VAL:HG23	2.00	0.61
1:AP:510:LEU:HD12	1:AT:490:ILE:CG2	2.30	0.61
1:AT:508:ASN:CA	1:AT:511:ARG:HG2	2.22	0.61
1:AW:184:MET:O	1:AW:189:ALA:HB2	2.00	0.61
1:AX:264:ILE:HD11	1:AX:295:THR:HG21	1.82	0.61
1:A2:291:VAL:HG23	1:A2:295:THR:HG21	1.80	0.61
1:A2:360:VAL:HG23	1:A2:365:PHE:CD1	2.35	0.61
1:A6:383:LEU:HA	1:A6:430:MET:CE	2.29	0.61
1:A9:104:GLN:HB3	1:A9:108:SER:OG	1.99	0.61
1:AA:184:MET:O	1:AA:189:ALA:HB2	2.00	0.61
1:AA:312:ILE:H	1:AA:312:ILE:HD12	1.65	0.61
1:AE:325:SER:HA	1:AE:330:GLY:HA3	1.81	0.61
1:AO:48:MET:SD	1:AQ:442:ARG:HD3	2.40	0.61
1:AO:249:THR:HG21	1:AO:406:GLN:OE1	2.00	0.61
1:AU:249:THR:HG21	1:AU:406:GLN:OE1	2.00	0.61
1:AU:250:GLY:O	1:AU:306:ARG:HD2	2.00	0.61
1:AV:89:LEU:HA	1:AV:92:ILE:HD12	1.81	0.61
1:AW:508:ASN:HA	1:AW:511:ARG:HG2	1.82	0.61
1:AX:99:ALA:CB	1:AX:112:LEU:HD23	2.25	0.61
1:AX:264:ILE:HG22	1:AX:319:VAL:CB	2.29	0.61
1:A1:179:PHE:HZ	1:A1:344:VAL:HG13	1.64	0.61
1:A4:260:ARG:O	1:A4:261:GLU:HG2	2.00	0.61
1:A5:451:GLU:HG3	1:AK:122:GLU:HB2	1.82	0.61
1:A7:46:SER:OG	1:AG:112:LEU:HD11	2.00	0.61
1:A7:60:ASN:HD21	1:AP:93:LYS:CG	2.08	0.61
1:A9:149:ILE:HD13	1:A9:157:VAL:HG12	1.81	0.61
1:AA:248:ALA:HA	1:AA:334:PHE:CE2	2.35	0.61
1:AB:112:LEU:HD11	1:AI:46:SER:OG	1.99	0.61
1:AD:68:ALA:HB3	1:AD:456:ILE:CD1	2.30	0.61
1:AD:366:SER:CB	1:AD:371:HIS:HB2	2.31	0.61
1:AF:249:THR:HG21	1:AF:406:GLN:OE1	2.00	0.61
1:AG:319:VAL:HG12	1:AG:342:HIS:CD2	2.35	0.61
1:AH:508:ASN:CA	1:AH:511:ARG:HG2	2.20	0.61
1:AJ:360:VAL:HG23	1:AJ:365:PHE:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:149:ILE:HD12	1:AM:455:THR:HG21	1.83	0.61
1:AO:89:LEU:HA	1:AO:92:ILE:HD13	1.81	0.61
1:AO:291:VAL:HG23	1:AO:295:THR:HG21	1.83	0.61
1:AO:423:GLY:HA2	1:AO:426:ILE:CD1	2.30	0.61
1:AO:507:GLN:HB2	1:AR:490:ILE:HD11	1.82	0.61
1:AP:131:SER:HB3	1:AP:136:GLN:OE1	2.00	0.61
1:AQ:370:PHE:HA	1:AQ:376:VAL:HG11	1.81	0.61
1:AS:248:ALA:HA	1:AS:334:PHE:CE2	2.35	0.61
1:AT:248:ALA:HA	1:AT:334:PHE:CE2	2.35	0.61
1:AX:61:LEU:O	1:AX:65:ILE:HG13	2.01	0.61
1:A1:89:LEU:HA	1:A1:92:ILE:HD12	1.80	0.61
1:A2:88:ILE:HG22	1:A2:92:ILE:HD11	1.83	0.61
1:A2:108:SER:O	1:A2:112:LEU:HD12	1.99	0.61
1:A3:46:SER:HB2	1:AT:112:LEU:HD11	1.83	0.61
1:A6:149:ILE:HD11	1:A6:157:VAL:HG23	1.82	0.61
1:A6:248:ALA:HA	1:A6:334:PHE:CZ	2.36	0.61
1:A8:380:THR:HB	1:AN:283:ARG:HH12	1.65	0.61
1:AB:150:GLY:HA3	1:AB:155:THR:HB	1.83	0.61
1:AB:508:ASN:HA	1:AB:511:ARG:HG2	1.81	0.61
1:AG:260:ARG:NH1	1:AG:323:SER:HB2	2.14	0.61
1:AI:71:ALA:O	1:AI:75:VAL:HG23	2.00	0.61
1:AK:328:VAL:HG12	1:AK:329:PHE:HD1	1.66	0.61
1:AK:370:PHE:HA	1:AK:376:VAL:HG11	1.82	0.61
1:AL:396:SER:HA	1:AL:401:ASN:HD22	1.65	0.61
1:AM:230:ILE:HG13	1:AM:231:ILE:N	2.16	0.61
1:AO:60:ASN:HD21	1:AQ:93:LYS:HE2	1.65	0.61
1:AT:201:LYS:HB2	1:AT:359:ILE:CD1	2.31	0.61
1:AT:249:THR:HG22	1:AT:403:ASN:ND2	2.15	0.61
1:AW:161:ILE:HG12	1:AW:445:MET:HE2	1.82	0.61
1:AW:362:GLY:O	1:AW:365:PHE:HB3	2.01	0.61
1:AW:459:ILE:HA	1:AW:462:THR:HG22	1.81	0.61
1:A1:248:ALA:HA	1:A1:334:PHE:CZ	2.35	0.61
1:A3:88:ILE:HG22	1:A3:92:ILE:HD11	1.81	0.61
1:A3:155:THR:HG23	1:AL:129:THR:HG21	1.81	0.61
1:A3:264:ILE:HD11	1:A3:295:THR:HG21	1.81	0.61
1:A4:360:VAL:HG23	1:A4:365:PHE:HD1	1.66	0.61
1:A5:117:GLN:NE2	1:A5:387:ARG:HD2	2.15	0.61
1:A5:184:MET:HE1	1:A5:345:ILE:CG1	2.30	0.61
1:A6:458:ASN:HD21	1:AW:126:ILE:HG23	1.66	0.61
1:A9:260:ARG:O	1:A9:261:GLU:HG2	2.00	0.61
1:A9:454:THR:HB	1:AA:122:GLU:OE2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:104:GLN:HB3	1:AA:108:SER:OG	2.00	0.61
1:AB:283:ARG:NH1	1:AH:380:THR:HB	2.16	0.61
1:AC:312:ILE:H	1:AC:312:ILE:HD12	1.66	0.61
1:AC:506:GLN:O	1:AC:509:VAL:HG12	2.00	0.61
1:AD:192:ASN:HA	1:AD:367:HIS:ND1	2.16	0.61
1:AE:60:ASN:ND2	1:AK:93:LYS:HG2	2.15	0.61
1:AF:260:ARG:O	1:AF:261:GLU:HG2	1.99	0.61
1:AH:116:ILE:CD1	1:AH:418:VAL:HG21	2.28	0.61
1:AI:249:THR:HG22	1:AI:403:ASN:ND2	2.15	0.61
1:AM:71:ALA:O	1:AM:75:VAL:HG23	2.00	0.61
1:AM:105:THR:HG21	1:AU:133:ASN:O	2.00	0.61
1:AM:186:ALA:HB3	1:AM:334:PHE:HB2	1.83	0.61
1:AN:38:ILE:CG2	1:AN:48:MET:HE3	2.29	0.61
1:AQ:38:ILE:HD11	1:AQ:44:ASP:HB3	1.83	0.61
1:AR:250:GLY:O	1:AR:306:ARG:HD2	2.01	0.61
1:AR:260:ARG:O	1:AR:261:GLU:HG2	1.98	0.61
1:AT:157:VAL:HG11	1:AT:452:LEU:CD2	2.31	0.61
1:AU:328:VAL:HG23	1:AU:329:PHE:CD1	2.36	0.61
1:AU:410:ASN:HD21	1:AU:414:ILE:HG22	1.66	0.61
1:AW:175:GLU:OE2	1:AW:358:ILE:HB	1.98	0.61
1:A1:75:VAL:HG11	1:A1:449:GLN:HB2	1.82	0.61
1:A8:187:SER:HB3	1:A8:335:ALA:CB	2.31	0.61
1:AC:137:MET:HB2	1:AC:138:LEU:HD12	1.83	0.61
1:AD:117:GLN:NE2	1:AD:387:ARG:HD2	2.15	0.61
1:AF:184:MET:O	1:AF:189:ALA:HB2	2.00	0.61
1:AF:234:PHE:HB3	1:AF:238:LEU:CD1	2.30	0.61
1:AJ:89:LEU:HA	1:AJ:92:ILE:HD13	1.82	0.61
1:AJ:312:ILE:H	1:AJ:312:ILE:HD12	1.66	0.61
1:AK:76:GLN:O	1:AK:80:LYS:HG2	2.01	0.61
1:AK:104:GLN:HB3	1:AK:108:SER:OG	2.01	0.61
1:AK:501:GLN:HG3	1:AN:485:PHE:CE2	2.35	0.61
1:AM:249:THR:HG21	1:AM:406:GLN:OE1	2.00	0.61
1:AN:214:VAL:HG11	1:AN:227:LEU:HB2	1.82	0.61
1:AO:99:ALA:HB2	1:AO:112:LEU:CD2	2.27	0.61
1:AQ:75:VAL:HG13	1:AQ:445:MET:CG	2.27	0.61
1:AQ:175:GLU:OE2	1:AQ:358:ILE:HB	2.00	0.61
1:AQ:211:ILE:HD11	1:AQ:238:LEU:HD11	1.81	0.61
1:AQ:312:ILE:HD12	1:AQ:312:ILE:H	1.65	0.61
1:AW:481:GLU:HA	1:AW:481:GLU:OE2	1.99	0.61
1:A2:248:ALA:HA	1:A2:334:PHE:CZ	2.35	0.61
1:A6:15:HIS:O	1:A6:19:VAL:HG12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:250:GLY:O	1:A6:306:ARG:HD2	2.00	0.61
1:A6:260:ARG:O	1:A6:261:GLU:HG2	2.00	0.61
1:A8:380:THR:HB	1:AN:283:ARG:NH1	2.16	0.61
1:A9:184:MET:O	1:A9:189:ALA:HB2	2.00	0.61
1:A9:248:ALA:HA	1:A9:334:PHE:CE2	2.35	0.61
1:AA:89:LEU:HD23	1:AA:92:ILE:HD13	1.83	0.61
1:AA:281:ASP:HB2	1:AN:382:ASN:ND2	2.16	0.61
1:AB:211:ILE:HD13	1:AB:234:PHE:HD2	1.66	0.61
1:AC:126:ILE:HG12	1:AX:458:ASN:ND2	2.15	0.61
1:AC:249:THR:HG22	1:AC:403:ASN:ND2	2.14	0.61
1:AE:15:HIS:O	1:AE:19:VAL:HG12	2.01	0.61
1:AF:250:GLY:O	1:AF:306:ARG:HD2	2.00	0.61
1:AF:360:VAL:HG23	1:AF:365:PHE:CD1	2.35	0.61
1:AG:187:SER:HB3	1:AG:335:ALA:CB	2.31	0.61
1:AH:184:MET:O	1:AH:189:ALA:HB2	1.99	0.61
1:AJ:454:THR:HG21	1:AU:88:ILE:HD11	1.82	0.61
1:AM:302:ASP:HB3	1:AM:308:ASN:ND2	2.16	0.61
1:AP:248:ALA:HA	1:AP:334:PHE:CE2	2.36	0.61
1:AP:258:THR:HG22	1:AP:273:ASN:CA	2.20	0.61
1:AQ:263:THR:HG22	1:AQ:268:GLU:HA	1.82	0.61
1:AW:186:ALA:HB3	1:AW:334:PHE:HB2	1.82	0.61
1:A1:283:ARG:HH12	1:AI:380:THR:HB	1.66	0.61
1:A3:117:GLN:NE2	1:A3:387:ARG:HD2	2.15	0.61
1:A3:249:THR:HG22	1:A3:403:ASN:ND2	2.16	0.61
1:A4:81:ALA:HB3	1:A4:138:LEU:HD11	1.83	0.61
1:A4:283:ARG:NH1	1:AT:380:THR:HB	2.16	0.61
1:A4:302:ASP:HB3	1:A4:308:ASN:HD21	1.66	0.61
1:A5:248:ALA:HA	1:A5:334:PHE:CZ	2.36	0.61
1:A8:76:GLN:O	1:A8:80:LYS:HG2	2.00	0.61
1:A8:179:PHE:HZ	1:A8:344:VAL:HG13	1.66	0.61
1:AC:423:GLY:HA2	1:AC:426:ILE:HD13	1.83	0.61
1:AD:201:LYS:HB2	1:AD:359:ILE:HD11	1.81	0.61
1:AD:360:VAL:HG23	1:AD:365:PHE:CD1	2.35	0.61
1:AF:186:ALA:HB3	1:AF:334:PHE:HB2	1.83	0.61
1:AG:249:THR:HG21	1:AG:406:GLN:OE1	2.00	0.61
1:AH:104:GLN:HB3	1:AH:108:SER:OG	2.00	0.61
1:AI:149:ILE:HD13	1:AI:157:VAL:CG1	2.31	0.61
1:AI:421:LEU:HD11	1:AI:425:MET:HE2	1.81	0.61
1:AJ:186:ALA:HB3	1:AJ:334:PHE:HB2	1.82	0.61
1:AJ:263:THR:CG2	1:AJ:268:GLU:HG3	2.30	0.61
1:AN:279:ASP:HB3	1:AN:301:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:410:ASN:HD21	1:AN:414:ILE:HG22	1.64	0.61
1:AP:68:ALA:HB3	1:AP:456:ILE:CD1	2.30	0.61
1:AT:201:LYS:HA	1:AT:208:ASP:HB2	1.82	0.61
1:AU:478:PHE:CE2	1:AX:5:ILE:HG21	2.36	0.61
1:AV:68:ALA:O	1:AV:72:ILE:HG13	2.00	0.61
1:AV:260:ARG:O	1:AV:261:GLU:HG2	2.00	0.61
1:AW:250:GLY:O	1:AW:306:ARG:HD2	2.01	0.61
1:A2:122:GLU:HG3	1:AM:451:GLU:HG2	1.82	0.61
1:A4:150:GLY:HA3	1:A4:155:THR:HB	1.83	0.61
1:A6:328:VAL:HG12	1:A6:329:PHE:HD1	1.64	0.61
1:A7:107:GLU:HA	1:A7:110:ARG:HD3	1.81	0.61
1:A7:292:LYS:HD3	1:A7:298:GLU:HA	1.83	0.61
1:A7:362:GLY:O	1:A7:365:PHE:HB3	2.00	0.61
1:A8:382:ASN:ND2	1:AN:281:ASP:HB2	2.16	0.61
1:A8:396:SER:HA	1:A8:401:ASN:HD22	1.66	0.61
1:A8:508:ASN:CA	1:A8:511:ARG:HG2	2.22	0.61
1:AC:116:ILE:HD12	1:AC:418:VAL:HG21	1.82	0.61
1:AC:260:ARG:O	1:AC:261:GLU:HG2	1.98	0.61
1:AE:153:SER:HB2	1:AK:429:ASP:OD1	2.01	0.61
1:AG:131:SER:HB3	1:AG:136:GLN:OE1	2.01	0.61
1:AH:293:ASP:OD1	1:AH:294:ARG:HG3	2.00	0.61
1:AS:117:GLN:NE2	1:AS:387:ARG:HD2	2.16	0.61
1:AS:187:SER:HB3	1:AS:335:ALA:CB	2.30	0.61
1:AS:312:ILE:H	1:AS:312:ILE:HD12	1.65	0.61
1:AS:352:ARG:HD3	1:AS:354:ASP:OD2	2.01	0.61
1:AV:150:GLY:HA3	1:AV:155:THR:HB	1.83	0.61
1:AX:81:ALA:HB3	1:AX:138:LEU:HD11	1.82	0.61
1:AX:312:ILE:H	1:AX:312:ILE:HD12	1.65	0.61
1:A1:89:LEU:HD23	1:A1:92:ILE:HD13	1.83	0.61
1:A6:65:ILE:CG1	1:A6:459:ILE:HD12	2.31	0.61
1:A6:234:PHE:CE2	1:AW:303:ILE:HD12	2.36	0.61
1:A7:410:ASN:HD21	1:A7:414:ILE:HG22	1.65	0.61
1:A8:212:GLU:OE2	1:AS:305:GLY:HA3	2.00	0.61
1:A8:263:THR:HG22	1:A8:268:GLU:HA	1.81	0.61
1:A9:82:MET:HE1	1:A9:445:MET:CE	2.31	0.61
1:A9:283:ARG:NH1	1:AK:380:THR:HB	2.16	0.61
1:AA:92:ILE:CG2	1:AA:116:ILE:HG12	2.28	0.61
1:AB:89:LEU:HA	1:AB:92:ILE:HD13	1.82	0.61
1:AB:248:ALA:HA	1:AB:334:PHE:CZ	2.36	0.61
1:AC:250:GLY:O	1:AC:306:ARG:HD2	2.01	0.61
1:AE:360:VAL:HG23	1:AE:365:PHE:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:284:LEU:O	1:AF:288:ILE:HG12	2.01	0.61
1:AG:89:LEU:HA	1:AG:92:ILE:HD13	1.82	0.61
1:AG:395:ALA:HB2	1:AG:414:ILE:HG23	1.82	0.61
1:AN:192:ASN:HA	1:AN:367:HIS:ND1	2.15	0.61
1:AN:234:PHE:HB3	1:AN:238:LEU:CD1	2.30	0.61
1:AO:248:ALA:HA	1:AO:334:PHE:CZ	2.36	0.61
1:AP:249:THR:HG21	1:AP:406:GLN:OE1	1.99	0.61
1:AP:508:ASN:CA	1:AP:511:ARG:HG2	2.25	0.61
1:AQ:471:SER:HB2	1:AQ:475:ASP:OD1	2.00	0.61
1:AR:81:ALA:HB3	1:AR:138:LEU:HD11	1.82	0.61
1:AU:71:ALA:O	1:AU:75:VAL:HG23	2.01	0.61
1:AX:100:ALA:HB2	1:AX:424:ALA:HB1	1.82	0.61
1:A2:512:LEU:HD23	1:AV:496:SER:OG	2.01	0.60
1:A3:4:ARG:NH1	1:AS:472:GLN:HA	2.15	0.60
1:A3:209:TYR:HE2	1:A3:237:THR:HG22	1.66	0.60
1:A9:179:PHE:HD1	1:A9:184:MET:HE2	1.66	0.60
1:AD:423:GLY:HA2	1:AD:426:ILE:HD13	1.82	0.60
1:AF:203:VAL:HG21	1:AF:209:TYR:HD1	1.65	0.60
1:AF:442:ARG:HD3	1:AS:48:MET:SD	2.41	0.60
1:AH:88:ILE:CD1	1:AI:454:THR:HG21	2.28	0.60
1:AH:260:ARG:NH1	1:AH:323:SER:HB2	2.16	0.60
1:AI:175:GLU:OE2	1:AI:358:ILE:HB	2.01	0.60
1:AL:248:ALA:HA	1:AL:334:PHE:CE2	2.36	0.60
1:AL:312:ILE:HD12	1:AL:312:ILE:H	1.65	0.60
1:AO:192:ASN:HA	1:AO:367:HIS:ND1	2.15	0.60
1:AO:383:LEU:HA	1:AO:430:MET:HE2	1.83	0.60
1:AV:184:MET:O	1:AV:189:ALA:HB2	2.01	0.60
1:A1:85:GLN:HE21	1:A1:138:LEU:HD23	1.65	0.60
1:A1:305:GLY:HA3	1:AQ:212:GLU:OE2	2.00	0.60
1:A1:508:ASN:CA	1:A1:511:ARG:HG2	2.28	0.60
1:A2:93:LYS:HG2	1:AR:60:ASN:HD21	1.66	0.60
1:A3:187:SER:HB3	1:A3:335:ALA:CB	2.31	0.60
1:A3:380:THR:HB	1:AS:283:ARG:NH1	2.16	0.60
1:A4:294:ARG:HH11	1:A4:294:ARG:HG3	1.67	0.60
1:A5:458:ASN:HD22	1:AK:126:ILE:HG12	1.66	0.60
1:A6:122:GLU:HB2	1:AT:451:GLU:HG3	1.83	0.60
1:A6:370:PHE:HA	1:A6:376:VAL:HG11	1.82	0.60
1:A6:454:THR:HB	1:AW:122:GLU:OE2	2.02	0.60
1:A8:249:THR:HG21	1:A8:406:GLN:OE1	2.01	0.60
1:A9:89:LEU:HD23	1:A9:92:ILE:HD13	1.83	0.60
1:AA:78:ALA:O	1:AA:82:MET:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:233:ARG:HB3	1:AA:233:ARG:NH1	2.16	0.60
1:AC:187:SER:HB3	1:AC:335:ALA:CB	2.31	0.60
1:AC:508:ASN:CA	1:AC:511:ARG:HG2	2.25	0.60
1:AE:60:ASN:ND2	1:AK:93:LYS:HE2	2.15	0.60
1:AE:259:VAL:HG11	1:AE:262:LEU:HD22	1.82	0.60
1:AE:263:THR:HG22	1:AE:268:GLU:HG3	1.84	0.60
1:AH:4:ARG:HH11	1:AH:4:ARG:HG3	1.65	0.60
1:AH:122:GLU:HG3	1:AI:451:GLU:HG3	1.83	0.60
1:AH:201:LYS:HB2	1:AH:359:ILE:HD11	1.83	0.60
1:AK:175:GLU:HG2	1:AK:378:GLU:CG	2.29	0.60
1:AN:249:THR:HG21	1:AN:406:GLN:OE1	2.00	0.60
1:AO:131:SER:HB3	1:AO:136:GLN:OE1	2.02	0.60
1:AP:224:ILE:HG13	1:AP:244:TYR:HB2	1.84	0.60
1:AP:312:ILE:H	1:AP:312:ILE:HD12	1.65	0.60
1:AR:312:ILE:H	1:AR:312:ILE:HD12	1.66	0.60
1:AT:41:ALA:N	1:AT:48:MET:HE1	2.16	0.60
1:AV:81:ALA:HB3	1:AV:138:LEU:HD11	1.82	0.60
1:AV:263:THR:HG22	1:AV:268:GLU:HA	1.83	0.60
1:A3:186:ALA:HB3	1:A3:334:PHE:HB2	1.83	0.60
1:A3:259:VAL:HB	1:A3:272:VAL:HG22	1.82	0.60
1:A3:263:THR:HG22	1:A3:268:GLU:HG3	1.82	0.60
1:A4:362:GLY:O	1:A4:365:PHE:HB3	2.01	0.60
1:A5:305:GLY:HA3	1:AD:212:GLU:OE2	2.01	0.60
1:A5:312:ILE:H	1:A5:312:ILE:HD12	1.66	0.60
1:A5:454:THR:HG21	1:AK:88:ILE:CD1	2.28	0.60
1:A6:186:ALA:HB3	1:A6:334:PHE:HB2	1.83	0.60
1:A8:360:VAL:HG23	1:A8:365:PHE:CD1	2.36	0.60
1:A8:506:GLN:O	1:A8:509:VAL:HG12	2.01	0.60
1:AA:337:ILE:HG22	1:AA:342:HIS:CG	2.36	0.60
1:AB:105:THR:HG21	1:AH:133:ASN:O	2.01	0.60
1:AB:166:SER:O	1:AB:383:LEU:HB3	2.00	0.60
1:AF:89:LEU:HA	1:AF:92:ILE:HD13	1.83	0.60
1:AF:126:ILE:HG23	1:AN:458:ASN:HD21	1.65	0.60
1:AG:8:ASN:HB3	1:AG:11:ALA:HB3	1.82	0.60
1:AK:149:ILE:HD12	1:AK:455:THR:HG21	1.82	0.60
1:AL:71:ALA:O	1:AL:75:VAL:HG23	2.01	0.60
1:AL:76:GLN:O	1:AL:80:LYS:HG2	2.01	0.60
1:AL:89:LEU:HD23	1:AL:92:ILE:HD13	1.83	0.60
1:AN:179:PHE:HZ	1:AN:344:VAL:HG13	1.65	0.60
1:AO:5:ILE:CD1	1:AO:506:GLN:HG2	2.31	0.60
1:AO:250:GLY:O	1:AO:306:ARG:HD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:179:PHE:HZ	1:AP:344:VAL:HG13	1.65	0.60
1:AQ:41:ALA:N	1:AQ:48:MET:HE1	2.16	0.60
1:AR:35:GLY:O	1:AR:476:VAL:HG12	2.01	0.60
1:AR:279:ASP:HB3	1:AR:301:LEU:HD11	1.83	0.60
1:AS:175:GLU:HG2	1:AS:378:GLU:CG	2.30	0.60
1:AV:371:HIS:CB	1:AV:374:GLN:HG3	2.31	0.60
1:AV:508:ASN:HA	1:AV:511:ARG:HG2	1.81	0.60
1:AW:78:ALA:O	1:AW:82:MET:HG3	2.02	0.60
1:AW:279:ASP:HB3	1:AW:301:LEU:HD11	1.83	0.60
1:A6:454:THR:HG21	1:AW:88:ILE:CD1	2.29	0.60
1:A7:50:ILE:HD11	1:AG:108:SER:HB3	1.82	0.60
1:A7:61:LEU:HB3	1:A7:463:GLN:HB2	1.82	0.60
1:A7:192:ASN:HA	1:A7:367:HIS:ND1	2.16	0.60
1:A7:277:LYS:HB2	2:A7:609:P8E:O1B	2.01	0.60
1:AD:508:ASN:CA	1:AD:511:ARG:HG2	2.24	0.60
1:AE:216:ILE:HD13	1:AE:223:GLY:HA2	1.81	0.60
1:AI:209:TYR:CE2	1:AI:237:THR:HG22	2.36	0.60
1:AI:303:ILE:O	1:AO:234:PHE:HE1	1.84	0.60
1:AJ:302:ASP:HB3	1:AJ:308:ASN:ND2	2.16	0.60
1:AJ:366:SER:CB	1:AJ:371:HIS:HB2	2.32	0.60
1:AK:360:VAL:HG23	1:AK:365:PHE:CD1	2.36	0.60
1:AL:201:LYS:HB2	1:AL:359:ILE:HD11	1.82	0.60
1:AL:263:THR:CG2	1:AL:268:GLU:HG3	2.31	0.60
1:AL:380:THR:HB	1:AT:283:ARG:NH1	2.17	0.60
1:AM:81:ALA:CB	1:AM:138:LEU:HD11	2.31	0.60
1:AM:337:ILE:HG22	1:AM:342:HIS:CG	2.37	0.60
1:AO:179:PHE:CZ	1:AO:344:VAL:HG13	2.36	0.60
1:AQ:99:ALA:HA	1:AQ:104:GLN:OE1	2.01	0.60
1:AQ:260:ARG:NH1	1:AQ:323:SER:HB2	2.17	0.60
1:AQ:508:ASN:CA	1:AQ:511:ARG:HG2	2.20	0.60
1:AS:362:GLY:O	1:AS:365:PHE:HB3	2.01	0.60
1:AV:78:ALA:HB3	1:AV:445:MET:HE1	1.82	0.60
1:AX:445:MET:HE2	1:AX:445:MET:CA	2.32	0.60
1:A1:41:ALA:HA	1:A1:48:MET:CE	2.31	0.60
1:A2:302:ASP:HB3	1:A2:308:ASN:HD21	1.67	0.60
1:A3:120:LEU:HD21	1:A3:166:SER:HB2	1.82	0.60
1:A4:68:ALA:HB3	1:A4:456:ILE:CD1	2.31	0.60
1:A9:93:LYS:HE2	1:AK:60:ASN:ND2	2.15	0.60
1:AB:68:ALA:O	1:AB:72:ILE:HG13	2.01	0.60
1:AD:249:THR:HG22	1:AD:403:ASN:ND2	2.15	0.60
1:AE:366:SER:CB	1:AE:371:HIS:HB2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:312:ILE:H	1:AK:312:ILE:HD12	1.65	0.60
1:AM:386:VAL:HG22	1:AM:427:VAL:HG22	1.84	0.60
1:AN:189:ALA:HB3	1:AN:343:ALA:HB3	1.83	0.60
1:AO:279:ASP:HB3	1:AO:301:LEU:HD11	1.82	0.60
1:AR:203:VAL:HG11	1:AR:238:LEU:HD22	1.82	0.60
1:AU:104:GLN:HB3	1:AU:108:SER:OG	2.01	0.60
1:AU:248:ALA:HA	1:AU:334:PHE:CZ	2.37	0.60
1:AU:360:VAL:HG23	1:AU:365:PHE:HD1	1.67	0.60
1:A1:234:PHE:CE2	1:AB:303:ILE:HA	2.36	0.60
1:A2:71:ALA:O	1:A2:75:VAL:HG23	2.01	0.60
1:A3:100:ALA:HB2	1:A3:424:ALA:HB1	1.83	0.60
1:A3:247:MET:HE3	1:A3:402:ALA:HB2	1.84	0.60
1:A4:263:THR:CG2	1:A4:268:GLU:HG3	2.32	0.60
1:A4:370:PHE:HA	1:A4:376:VAL:HG11	1.83	0.60
1:A5:423:GLY:HA2	1:A5:426:ILE:HD13	1.82	0.60
1:A6:105:THR:HG21	1:AP:133:ASN:O	2.01	0.60
1:A6:458:ASN:HD22	1:AW:126:ILE:HG12	1.67	0.60
1:A7:187:SER:HB3	1:A7:335:ALA:CB	2.31	0.60
1:A7:352:ARG:HD3	1:A7:354:ASP:OD2	2.01	0.60
1:A7:360:VAL:HG23	1:A7:365:PHE:CD1	2.37	0.60
1:AA:71:ALA:O	1:AA:75:VAL:HG23	2.02	0.60
1:AA:249:THR:HG23	1:AA:405:ALA:HB3	1.83	0.60
1:AC:6:ASN:HD22	1:AR:36:LEU:HD23	1.64	0.60
1:AC:166:SER:O	1:AC:383:LEU:HB3	2.02	0.60
1:AC:248:ALA:HA	1:AC:334:PHE:CE2	2.36	0.60
1:AE:179:PHE:CD1	1:AE:184:MET:HE3	2.36	0.60
1:AF:279:ASP:HB3	1:AF:301:LEU:HD11	1.82	0.60
1:AG:175:GLU:OE2	1:AG:358:ILE:HB	2.00	0.60
1:AH:81:ALA:CB	1:AH:138:LEU:HD11	2.30	0.60
1:AJ:187:SER:HB3	1:AJ:335:ALA:CB	2.32	0.60
1:AK:89:LEU:HA	1:AK:92:ILE:HD13	1.81	0.60
1:AM:35:GLY:O	1:AM:476:VAL:HG12	2.02	0.60
1:AN:248:ALA:HA	1:AN:334:PHE:CE2	2.37	0.60
1:AO:68:ALA:O	1:AO:72:ILE:HG13	2.02	0.60
1:AP:360:VAL:HG23	1:AP:365:PHE:CD1	2.36	0.60
1:AT:150:GLY:HA3	1:AT:155:THR:HB	1.84	0.60
1:AW:68:ALA:O	1:AW:72:ILE:HG13	2.00	0.60
1:AX:248:ALA:HA	1:AX:334:PHE:CZ	2.37	0.60
1:AX:262:LEU:HD23	1:AX:269:ILE:HG21	1.83	0.60
1:A2:186:ALA:HB3	1:A2:334:PHE:HB2	1.84	0.60
1:A4:103:GLY:HA2	1:AT:74:MET:CE	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:312:ILE:H	1:A6:312:ILE:HD12	1.66	0.60
1:A7:360:VAL:HG23	1:A7:365:PHE:HD1	1.66	0.60
1:A7:510:LEU:HD12	1:AL:490:ILE:CG2	2.30	0.60
1:A8:248:ALA:HA	1:A8:334:PHE:CZ	2.36	0.60
1:A9:283:ARG:HH12	1:AK:380:THR:HB	1.67	0.60
1:AB:383:LEU:HA	1:AB:430:MET:HE2	1.84	0.60
1:AC:511:ARG:HH12	1:AC:512:LEU:CD1	2.15	0.60
1:AD:469:ALA:O	1:AD:473:ILE:HG22	2.02	0.60
1:AE:100:ALA:HB2	1:AE:424:ALA:HB1	1.83	0.60
1:AF:179:PHE:HD1	1:AF:184:MET:HE2	1.65	0.60
1:AG:155:THR:HG23	1:AM:129:THR:HG21	1.83	0.60
1:AL:179:PHE:HZ	1:AL:344:VAL:HG13	1.67	0.60
1:AL:366:SER:CB	1:AL:371:HIS:HB2	2.31	0.60
1:AP:259:VAL:HG22	1:AP:328:VAL:CG2	2.31	0.60
1:AR:175:GLU:OE2	1:AR:358:ILE:HB	2.01	0.60
1:AW:249:THR:HG21	1:AW:406:GLN:OE1	2.00	0.60
1:AW:291:VAL:HG23	1:AW:295:THR:HG21	1.82	0.60
1:AX:291:VAL:O	1:AX:295:THR:HG23	2.02	0.60
1:A1:260:ARG:NH1	1:A1:323:SER:HB2	2.17	0.60
1:A2:5:ILE:HG12	1:A2:510:LEU:HD11	1.83	0.60
1:A3:89:LEU:HA	1:A3:92:ILE:HD13	1.83	0.60
1:A4:279:ASP:HB3	1:A4:301:LEU:HD11	1.84	0.60
1:A6:279:ASP:HB3	1:A6:301:LEU:HD11	1.82	0.60
1:A9:234:PHE:CZ	1:AA:303:ILE:HA	2.36	0.60
1:AC:211:ILE:CD1	1:AC:238:LEU:HD11	2.31	0.60
1:AE:224:ILE:HD11	1:AE:246:VAL:HG23	1.83	0.60
1:AE:319:VAL:HG12	1:AE:342:HIS:CD2	2.36	0.60
1:AF:362:GLY:O	1:AF:365:PHE:HB3	2.02	0.60
1:AI:129:THR:HG21	1:AO:155:THR:HG23	1.82	0.60
1:AJ:248:ALA:HA	1:AJ:334:PHE:CZ	2.37	0.60
1:AM:179:PHE:HD1	1:AM:184:MET:HE2	1.65	0.60
1:AN:116:ILE:HD12	1:AN:418:VAL:HG21	1.84	0.60
1:AO:76:GLN:O	1:AO:80:LYS:HG2	2.02	0.60
1:AQ:133:ASN:O	1:AV:105:THR:HG21	2.02	0.60
1:AR:421:LEU:O	1:AR:425:MET:HG2	2.01	0.60
1:AT:89:LEU:HA	1:AT:92:ILE:HD12	1.84	0.60
1:AW:511:ARG:HG3	1:AW:512:LEU:N	2.17	0.60
1:AX:187:SER:HB3	1:AX:335:ALA:CB	2.32	0.60
1:A2:260:ARG:NH1	1:A2:323:SER:HB2	2.17	0.60
1:A4:260:ARG:NH1	1:A4:323:SER:HB2	2.17	0.60
1:A5:249:THR:HG21	1:A5:406:GLN:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:283:ARG:NH1	1:AP:380:THR:HB	2.17	0.60
1:A7:508:ASN:CA	1:A7:511:ARG:HG2	2.26	0.60
1:A9:75:VAL:HG13	1:A9:445:MET:CG	2.27	0.60
1:A9:495:GLY:O	1:A9:499:MET:HG3	2.02	0.60
1:AA:89:LEU:HA	1:AA:92:ILE:HD12	1.83	0.60
1:AC:366:SER:CB	1:AC:371:HIS:HB2	2.31	0.60
1:AD:319:VAL:HG12	1:AD:342:HIS:ND1	2.17	0.60
1:AE:511:ARG:HH22	1:AE:512:LEU:HD22	1.67	0.60
1:AF:175:GLU:HG2	1:AF:378:GLU:CG	2.30	0.60
1:AF:370:PHE:HA	1:AF:376:VAL:HG11	1.83	0.60
1:AI:149:ILE:HD13	1:AI:157:VAL:HG12	1.84	0.60
1:AK:89:LEU:HD23	1:AK:92:ILE:HD13	1.83	0.60
1:AL:187:SER:HB3	1:AL:335:ALA:CB	2.32	0.60
1:AP:99:ALA:HB2	1:AP:112:LEU:HD23	1.83	0.60
1:AR:263:THR:HG22	1:AR:268:GLU:HA	1.82	0.60
1:AS:104:GLN:HB3	1:AS:108:SER:OG	2.01	0.60
1:AT:175:GLU:OE2	1:AT:358:ILE:HB	2.01	0.60
1:AT:263:THR:HG22	1:AT:268:GLU:HA	1.82	0.60
1:AX:277:LYS:HB2	2:AX:609:P8E:O1B	2.02	0.60
1:A1:429:ASP:OD2	1:AI:153:SER:HB3	2.01	0.60
1:A4:291:VAL:HG23	1:A4:295:THR:HG21	1.82	0.60
1:A5:144:ASN:ND2	1:AH:247:MET:HE1	2.16	0.60
1:A8:89:LEU:HA	1:A8:92:ILE:HD13	1.81	0.60
1:A8:211:ILE:HD12	1:A8:234:PHE:CD2	2.36	0.60
1:A8:383:LEU:HA	1:A8:430:MET:CE	2.32	0.60
1:A9:201:LYS:HB2	1:A9:359:ILE:CD1	2.32	0.60
1:AC:60:ASN:HD21	1:AR:93:LYS:HE2	1.65	0.60
1:AC:89:LEU:HA	1:AC:92:ILE:HD13	1.84	0.60
1:AC:360:VAL:HG23	1:AC:365:PHE:CD1	2.36	0.60
1:AC:382:ASN:ND2	1:AR:281:ASP:HB2	2.17	0.60
1:AC:445:MET:HE2	1:AC:445:MET:CA	2.31	0.60
1:AD:89:LEU:HA	1:AD:92:ILE:HD13	1.83	0.60
1:AD:370:PHE:HA	1:AD:376:VAL:HG11	1.82	0.60
1:AD:511:ARG:NH2	1:AD:512:LEU:HD22	2.16	0.60
1:AE:380:THR:HB	1:AK:283:ARG:HH12	1.66	0.60
1:AI:224:ILE:HD13	1:AI:345:ILE:O	2.02	0.60
1:AJ:98:GLN:HG2	1:AJ:112:LEU:HD21	1.83	0.60
1:AJ:480:GLU:HB2	1:AX:15:HIS:CE1	2.37	0.60
1:AK:68:ALA:HB3	1:AK:456:ILE:CD1	2.18	0.60
1:AL:380:THR:HB	1:AT:283:ARG:HH12	1.67	0.60
1:AM:209:TYR:CE1	1:AM:237:THR:HG22	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:362:GLY:O	1:AO:365:PHE:HB3	2.01	0.60
1:AR:293:ASP:OD2	1:AR:294:ARG:HG3	2.02	0.60
1:AR:303:ILE:O	1:AU:234:PHE:HE2	1.84	0.60
1:AR:360:VAL:HG23	1:AR:365:PHE:CD1	2.36	0.60
1:AS:383:LEU:HA	1:AS:430:MET:HE3	1.84	0.60
1:AT:423:GLY:HA2	1:AT:426:ILE:CD1	2.32	0.60
1:AU:175:GLU:OE2	1:AU:358:ILE:HB	2.02	0.60
1:AW:179:PHE:HD1	1:AW:184:MET:HE2	1.64	0.60
1:A1:501:GLN:HG3	1:AB:485:PHE:CE2	2.37	0.59
1:A6:129:THR:HG21	1:AT:155:THR:HG23	1.84	0.59
1:AA:291:VAL:HG23	1:AA:295:THR:HG21	1.83	0.59
1:AB:279:ASP:HB3	1:AB:301:LEU:HD11	1.83	0.59
1:AD:60:ASN:OD1	1:AI:93:LYS:HE2	2.02	0.59
1:AE:249:THR:HG22	1:AE:403:ASN:ND2	2.17	0.59
1:AF:260:ARG:NH1	1:AF:323:SER:HB2	2.16	0.59
1:AH:312:ILE:H	1:AH:312:ILE:HD12	1.66	0.59
1:AM:508:ASN:CA	1:AM:511:ARG:HG2	2.25	0.59
1:AN:76:GLN:O	1:AN:80:LYS:HG2	2.02	0.59
1:AN:175:GLU:OE2	1:AN:358:ILE:HB	2.01	0.59
1:AO:48:MET:HE1	1:AQ:442:ARG:HB3	1.84	0.59
1:AO:203:VAL:HG21	1:AO:209:TYR:HD1	1.67	0.59
1:AP:337:ILE:HG22	1:AP:342:HIS:CG	2.37	0.59
1:AP:362:GLY:O	1:AP:365:PHE:HB3	2.02	0.59
1:AR:471:SER:HB2	1:AR:475:ASP:OD1	2.01	0.59
1:AV:167:ASP:HB3	1:AV:384:ARG:CZ	2.31	0.59
1:AV:250:GLY:O	1:AV:306:ARG:HD2	2.02	0.59
1:AX:231:ILE:HG21	1:AX:242:ALA:HB2	1.84	0.59
1:AX:360:VAL:HG23	1:AX:365:PHE:CD1	2.37	0.59
1:A1:458:ASN:HD22	1:AB:126:ILE:HG12	1.67	0.59
1:A2:126:ILE:HG12	1:AM:458:ASN:HD22	1.67	0.59
1:A3:74:MET:HB3	1:A3:137:MET:HE1	1.84	0.59
1:A5:362:GLY:O	1:A5:365:PHE:HB3	2.01	0.59
1:A6:260:ARG:NH1	1:A6:323:SER:HB2	2.16	0.59
1:A7:312:ILE:H	1:A7:312:ILE:HD12	1.66	0.59
1:A8:155:THR:HG23	1:AS:129:THR:HG21	1.84	0.59
1:A8:291:VAL:HG23	1:A8:295:THR:HG21	1.83	0.59
1:A9:233:ARG:HG2	1:A9:234:PHE:HD2	1.66	0.59
1:A9:479:ALA:HB1	1:AN:499:MET:HE1	1.84	0.59
1:AC:155:THR:HG23	1:AO:129:THR:HG21	1.83	0.59
1:AD:187:SER:HB3	1:AD:335:ALA:CB	2.32	0.59
1:AF:161:ILE:HD13	1:AF:445:MET:HE1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:263:THR:HG22	1:AF:268:GLU:HA	1.83	0.59
1:AK:81:ALA:HB3	1:AK:138:LEU:HD11	1.83	0.59
1:AK:201:LYS:HB2	1:AK:359:ILE:HD11	1.83	0.59
1:AL:155:THR:HG23	1:AP:129:THR:HG21	1.85	0.59
1:AO:211:ILE:CD1	1:AO:238:LEU:HD11	2.31	0.59
1:AP:410:ASN:HD21	1:AP:414:ILE:HG22	1.67	0.59
1:AQ:511:ARG:HG3	1:AQ:512:LEU:N	2.16	0.59
1:AR:104:GLN:HB3	1:AR:108:SER:OG	2.02	0.59
1:AT:76:GLN:O	1:AT:80:LYS:HG2	2.02	0.59
1:AT:279:ASP:HB3	1:AT:301:LEU:HD11	1.82	0.59
1:AU:76:GLN:O	1:AU:80:LYS:HG2	2.02	0.59
1:AU:201:LYS:HB2	1:AU:359:ILE:HG13	1.84	0.59
1:AV:395:ALA:HB2	1:AV:414:ILE:HG23	1.84	0.59
1:AW:293:ASP:OD1	1:AW:294:ARG:HG3	2.02	0.59
1:A3:184:MET:HE1	1:A3:345:ILE:CD1	2.33	0.59
1:A4:71:ALA:O	1:A4:75:VAL:HG23	2.02	0.59
1:A4:187:SER:HB3	1:A4:335:ALA:CB	2.33	0.59
1:A5:337:ILE:HG22	1:A5:342:HIS:CG	2.38	0.59
1:A6:481:GLU:HA	1:A6:481:GLU:OE2	2.01	0.59
1:A8:149:ILE:HD13	1:A8:157:VAL:CG1	2.32	0.59
1:A8:263:THR:CG2	1:A8:268:GLU:HG3	2.32	0.59
1:A8:512:LEU:HD22	1:AS:496:SER:OG	2.03	0.59
1:A9:41:ALA:N	1:A9:48:MET:HE1	2.16	0.59
1:A9:175:GLU:HG2	1:A9:378:GLU:CG	2.30	0.59
1:AB:78:ALA:HB3	1:AB:445:MET:HE1	1.83	0.59
1:AD:71:ALA:O	1:AD:75:VAL:HG23	2.02	0.59
1:AE:362:GLY:O	1:AE:365:PHE:HB3	2.01	0.59
1:AE:423:GLY:HA2	1:AE:426:ILE:HD13	1.84	0.59
1:AJ:234:PHE:HE2	1:AU:303:ILE:O	1.85	0.59
1:AO:98:GLN:HG2	1:AO:112:LEU:HD21	1.82	0.59
1:AP:167:ASP:HB3	1:AP:384:ARG:CZ	2.32	0.59
1:AS:291:VAL:HG23	1:AS:295:THR:HG21	1.84	0.59
1:AV:20:GLN:HA	1:AV:23:ARG:HH11	1.65	0.59
1:AX:362:GLY:O	1:AX:365:PHE:HB3	2.01	0.59
1:A1:250:GLY:O	1:A1:306:ARG:HD2	2.02	0.59
1:A1:283:ARG:NH1	1:AI:380:THR:HB	2.17	0.59
1:A1:362:GLY:O	1:A1:365:PHE:HB3	2.01	0.59
1:A2:88:ILE:CD1	1:AM:454:THR:HG21	2.28	0.59
1:A2:260:ARG:O	1:A2:261:GLU:HG2	2.00	0.59
1:A3:71:ALA:O	1:A3:75:VAL:HG23	2.02	0.59
1:A3:166:SER:O	1:A3:383:LEU:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:225:GLY:HA2	1:A5:244:TYR:CD1	2.38	0.59
1:A8:312:ILE:HD12	1:A8:312:ILE:H	1.67	0.59
1:A9:511:ARG:HG3	1:A9:512:LEU:N	2.17	0.59
1:AC:100:ALA:HB2	1:AC:424:ALA:HB1	1.84	0.59
1:AE:189:ALA:HB3	1:AE:343:ALA:HB3	1.84	0.59
1:AF:487:LYS:HE2	1:AT:6:ASN:O	2.03	0.59
1:AH:34:SER:HA	1:AI:17:VAL:CG1	2.22	0.59
1:AI:89:LEU:HA	1:AI:92:ILE:HD12	1.83	0.59
1:AI:122:GLU:HB2	1:AO:451:GLU:HG3	1.83	0.59
1:AI:224:ILE:HD11	1:AI:246:VAL:HG22	1.83	0.59
1:AK:120:LEU:HD23	1:AK:124:ASP:OD2	2.02	0.59
1:AL:174:MET:HE1	1:AL:398:ALA:HB2	1.83	0.59
1:AM:248:ALA:HA	1:AM:334:PHE:CE2	2.36	0.59
1:AQ:187:SER:HB3	1:AQ:335:ALA:CB	2.33	0.59
1:AQ:201:LYS:HA	1:AQ:208:ASP:HB2	1.84	0.59
1:AT:192:ASN:HA	1:AT:367:HIS:ND1	2.16	0.59
1:AV:45:SER:O	1:AV:48:MET:HE3	2.02	0.59
1:AV:81:ALA:CB	1:AV:138:LEU:HD11	2.32	0.59
1:A2:426:ILE:HD12	1:A2:426:ILE:H	1.65	0.59
1:A4:277:LYS:HB2	2:A4:609:P8E:O1B	2.03	0.59
1:A6:68:ALA:O	1:A6:72:ILE:HG13	2.03	0.59
1:AA:68:ALA:O	1:AA:72:ILE:HG13	2.02	0.59
1:AA:250:GLY:O	1:AA:306:ARG:HD2	2.03	0.59
1:AD:89:LEU:HD23	1:AD:92:ILE:HD13	1.84	0.59
1:AD:312:ILE:H	1:AD:312:ILE:HD12	1.67	0.59
1:AE:396:SER:HA	1:AE:401:ASN:HD22	1.67	0.59
1:AI:248:ALA:HA	1:AI:334:PHE:CE2	2.37	0.59
1:AK:263:THR:CG2	1:AK:268:GLU:HG3	2.32	0.59
1:AL:98:GLN:HG2	1:AL:112:LEU:HD21	1.83	0.59
1:AN:511:ARG:HG3	1:AN:512:LEU:N	2.17	0.59
1:AQ:186:ALA:HB3	1:AQ:334:PHE:HB2	1.84	0.59
1:AQ:382:ASN:ND2	1:AV:281:ASP:HB2	2.18	0.59
1:AU:89:LEU:HD23	1:AU:92:ILE:HD13	1.84	0.59
1:AU:383:LEU:HA	1:AU:430:MET:CE	2.33	0.59
1:AW:150:GLY:HA3	1:AW:155:THR:HB	1.84	0.59
1:AX:116:ILE:HD12	1:AX:418:VAL:HG21	1.84	0.59
1:A6:166:SER:O	1:A6:383:LEU:HB3	2.03	0.59
1:A6:263:THR:CG2	1:A6:268:GLU:HG3	2.32	0.59
1:A7:149:ILE:HD11	1:A7:157:VAL:CG2	2.33	0.59
1:A7:423:GLY:HA2	1:A7:426:ILE:HD13	1.85	0.59
1:A8:89:LEU:HD23	1:A8:92:ILE:HD13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:98:GLN:HB2	1:AH:63:GLN:CD	2.28	0.59
1:AB:233:ARG:HB3	1:AB:233:ARG:NH1	2.17	0.59
1:AC:5:ILE:HG21	1:AR:478:PHE:HE2	1.68	0.59
1:AC:61:LEU:CD2	1:AC:151:ALA:HB2	2.33	0.59
1:AC:76:GLN:O	1:AC:80:LYS:HG2	2.02	0.59
1:AF:68:ALA:O	1:AF:72:ILE:HG13	2.03	0.59
1:AF:82:MET:HE1	1:AF:442:ARG:N	2.16	0.59
1:AF:122:GLU:HG3	1:AN:451:GLU:HG2	1.85	0.59
1:AF:395:ALA:HB2	1:AF:414:ILE:HG23	1.85	0.59
1:AF:508:ASN:CA	1:AF:511:ARG:HG2	2.26	0.59
1:AF:511:ARG:HG3	1:AF:512:LEU:N	2.17	0.59
1:AH:68:ALA:O	1:AH:72:ILE:HG13	2.03	0.59
1:AH:496:SER:HB2	1:AI:512:LEU:HD23	1.84	0.59
1:AI:312:ILE:HD12	1:AI:312:ILE:H	1.67	0.59
1:AJ:410:ASN:HD21	1:AJ:414:ILE:HG22	1.68	0.59
1:AK:175:GLU:OE2	1:AK:358:ILE:HB	2.02	0.59
1:AL:92:ILE:HG23	1:AL:116:ILE:HG23	1.83	0.59
1:AN:291:VAL:HG23	1:AN:295:THR:HG21	1.84	0.59
1:AO:246:VAL:O	1:AO:247:MET:HG2	2.02	0.59
1:AO:264:ILE:CG2	1:AO:319:VAL:HB	2.29	0.59
1:AR:433:SER:O	1:AR:437:GLN:HG3	2.03	0.59
1:AS:454:THR:HG21	1:AT:88:ILE:CD1	2.31	0.59
1:AU:146:GLU:HG3	1:AU:158:LYS:HZ3	1.66	0.59
1:AV:5:ILE:HG12	1:AV:510:LEU:HD11	1.83	0.59
1:AW:260:ARG:NH1	1:AW:323:SER:HB2	2.18	0.59
1:A5:328:VAL:HG12	1:A5:329:PHE:HD1	1.67	0.59
1:AA:150:GLY:HA3	1:AA:155:THR:HB	1.85	0.59
1:AB:260:ARG:NH1	1:AB:323:SER:HB2	2.18	0.59
1:AB:302:ASP:HB3	1:AB:308:ASN:ND2	2.17	0.59
1:AB:471:SER:O	1:AB:475:ASP:HB2	2.03	0.59
1:AC:277:LYS:HB2	2:AC:609:P8E:O1B	2.02	0.59
1:AF:187:SER:HB3	1:AF:335:ALA:CB	2.33	0.59
1:AF:283:ARG:NH1	1:AS:380:THR:HB	2.18	0.59
1:AJ:117:GLN:NE2	1:AJ:387:ARG:HD2	2.17	0.59
1:AJ:174:MET:HE3	1:AJ:398:ALA:HA	1.85	0.59
1:AM:149:ILE:HD11	1:AM:157:VAL:CG2	2.32	0.59
1:AM:187:SER:HB3	1:AM:335:ALA:CB	2.33	0.59
1:AM:260:ARG:NH1	1:AM:323:SER:HB2	2.17	0.59
1:AN:187:SER:HB3	1:AN:335:ALA:HB1	1.84	0.59
1:AQ:88:ILE:HD11	1:AQ:122:GLU:OE1	2.02	0.59
1:AR:157:VAL:HG11	1:AR:452:LEU:CD2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:155:THR:HG23	1:AT:129:THR:HG21	1.84	0.59
1:AS:218:THR:O	1:AS:315:ARG:HD3	2.03	0.59
1:AU:395:ALA:HB2	1:AU:414:ILE:HG23	1.83	0.59
1:AX:21:ASN:HA	1:AX:24:ASP:OD1	2.02	0.59
1:AX:248:ALA:HA	1:AX:334:PHE:CE2	2.38	0.59
1:AX:291:VAL:HG23	1:AX:295:THR:HG21	1.84	0.59
1:A1:187:SER:HB3	1:A1:335:ALA:CB	2.32	0.59
1:A2:179:PHE:HD1	1:A2:184:MET:HE2	1.67	0.59
1:A3:184:MET:HE1	1:A3:345:ILE:CG1	2.33	0.59
1:A4:81:ALA:CB	1:A4:138:LEU:HD11	2.33	0.59
1:A4:250:GLY:O	1:A4:306:ARG:HD2	2.03	0.59
1:A5:380:THR:HB	1:AH:283:ARG:NH1	2.18	0.59
1:A6:511:ARG:HG3	1:A6:512:LEU:N	2.16	0.59
1:A7:71:ALA:O	1:A7:75:VAL:HG23	2.03	0.59
1:A7:184:MET:HE1	1:A7:345:ILE:CD1	2.33	0.59
1:AC:92:ILE:HG23	1:AC:116:ILE:CG1	2.29	0.59
1:AC:146:GLU:CG	1:AR:421:LEU:HD21	2.33	0.59
1:AD:248:ALA:HA	1:AD:334:PHE:CE2	2.38	0.59
1:AD:362:GLY:O	1:AD:365:PHE:HB3	2.01	0.59
1:AE:231:ILE:HG21	1:AE:242:ALA:HB2	1.85	0.59
1:AE:259:VAL:HB	1:AE:272:VAL:HG22	1.84	0.59
1:AE:506:GLN:O	1:AE:509:VAL:HG12	2.03	0.59
1:AH:305:GLY:HA3	1:AI:212:GLU:OE2	2.01	0.59
1:AH:511:ARG:HG3	1:AH:512:LEU:N	2.17	0.59
1:AI:76:GLN:O	1:AI:80:LYS:HG2	2.03	0.59
1:AJ:15:HIS:O	1:AJ:19:VAL:HG12	2.03	0.59
1:AK:187:SER:HB3	1:AK:335:ALA:CB	2.31	0.59
1:AM:353:THR:HG23	1:AM:433:SER:CB	2.30	0.59
1:AO:166:SER:O	1:AO:383:LEU:HB3	2.02	0.59
1:AQ:81:ALA:HB3	1:AQ:138:LEU:HD11	1.84	0.59
1:AR:82:MET:HE1	1:AR:442:ARG:N	2.17	0.59
1:AT:38:ILE:HD11	1:AT:44:ASP:HB3	1.85	0.59
1:AU:259:VAL:HG22	1:AU:328:VAL:CG2	2.32	0.59
1:AX:360:VAL:HG23	1:AX:365:PHE:HD1	1.67	0.59
1:A1:68:ALA:O	1:A1:72:ILE:HG13	2.03	0.59
1:A1:186:ALA:HB3	1:A1:334:PHE:HB2	1.85	0.59
1:A2:305:GLY:HA3	1:AM:212:GLU:OE2	2.03	0.59
1:A3:360:VAL:HG23	1:A3:365:PHE:CD1	2.37	0.59
1:A4:68:ALA:O	1:A4:72:ILE:HG13	2.02	0.59
1:A4:463:GLN:HA	1:A4:466:VAL:HG22	1.85	0.59
1:A7:89:LEU:HA	1:A7:92:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:248:ALA:HA	1:AC:334:PHE:CZ	2.38	0.59
1:AC:303:ILE:O	1:AX:234:PHE:HE2	1.86	0.59
1:AG:68:ALA:HB3	1:AG:456:ILE:CD1	2.18	0.59
1:AG:76:GLN:O	1:AG:80:LYS:HG2	2.02	0.59
1:AH:15:HIS:O	1:AH:19:VAL:HG12	2.03	0.59
1:AH:175:GLU:OE2	1:AH:358:ILE:HB	2.03	0.59
1:AH:187:SER:HB3	1:AH:335:ALA:CB	2.33	0.59
1:AN:5:ILE:CD1	1:AN:506:GLN:HG2	2.33	0.59
1:AO:179:PHE:CD1	1:AO:184:MET:HE3	2.38	0.59
1:AO:187:SER:HB3	1:AO:335:ALA:CB	2.32	0.59
1:AP:319:VAL:H	1:AP:342:HIS:HD2	1.51	0.59
1:AS:99:ALA:HB2	1:AS:112:LEU:CD2	2.25	0.59
1:AS:225:GLY:HA2	1:AS:244:TYR:CD1	2.37	0.59
1:AV:122:GLU:OE2	1:AV:126:ILE:HG13	2.02	0.59
1:AV:233:ARG:HB3	1:AV:233:ARG:NH1	2.17	0.59
1:AV:284:LEU:O	1:AV:288:ILE:HG12	2.03	0.59
1:AW:149:ILE:HD13	1:AW:157:VAL:CG1	2.33	0.59
1:AX:89:LEU:HA	1:AX:92:ILE:HD13	1.83	0.59
1:AX:319:VAL:HG12	1:AX:342:HIS:HE1	1.68	0.59
1:A1:184:MET:O	1:A1:189:ALA:HB2	2.03	0.59
1:A1:442:ARG:HD3	1:AI:48:MET:SD	2.43	0.59
1:A1:512:LEU:HD23	1:AB:496:SER:CB	2.32	0.59
1:A2:250:GLY:O	1:A2:306:ARG:HD2	2.03	0.59
1:A3:362:GLY:O	1:A3:365:PHE:HB3	2.03	0.59
1:A5:63:GLN:CD	1:AH:98:GLN:HB2	2.28	0.59
1:A6:283:ARG:HH12	1:AP:380:THR:HB	1.68	0.59
1:A6:362:GLY:O	1:A6:365:PHE:HB3	2.03	0.59
1:A7:248:ALA:HA	1:A7:334:PHE:CZ	2.37	0.59
1:A7:380:THR:HB	1:AP:283:ARG:NH1	2.18	0.59
1:A9:71:ALA:O	1:A9:75:VAL:HG23	2.03	0.59
1:AB:81:ALA:CB	1:AB:138:LEU:HD11	2.33	0.59
1:AB:251:GLY:H	1:AB:333:ASN:H	1.50	0.59
1:AC:68:ALA:O	1:AC:72:ILE:HG13	2.03	0.59
1:AD:248:ALA:HA	1:AD:334:PHE:CZ	2.38	0.59
1:AE:380:THR:HB	1:AK:283:ARG:NH1	2.18	0.59
1:AG:122:GLU:HG3	1:AP:451:GLU:HG3	1.84	0.59
1:AG:179:PHE:HD1	1:AG:184:MET:HE2	1.67	0.59
1:AI:98:GLN:HG2	1:AI:112:LEU:HD21	1.84	0.59
1:AI:149:ILE:HD12	1:AI:455:THR:HG21	1.85	0.59
1:AJ:50:ILE:HD11	1:AM:108:SER:HB3	1.84	0.59
1:AJ:512:LEU:HD22	1:AU:496:SER:OG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:120:LEU:HD21	1:AL:166:SER:HB2	1.85	0.59
1:AM:283:ARG:NH1	1:AU:380:THR:HB	2.18	0.59
1:AN:360:VAL:HG23	1:AN:365:PHE:CD1	2.38	0.59
1:AN:362:GLY:O	1:AN:365:PHE:HB3	2.02	0.59
1:AR:248:ALA:HA	1:AR:334:PHE:CE2	2.37	0.59
1:AR:249:THR:HG21	1:AR:406:GLN:OE1	2.02	0.59
1:AS:175:GLU:OE2	1:AS:358:ILE:HB	2.02	0.59
1:AW:89:LEU:HA	1:AW:92:ILE:HD13	1.84	0.59
1:AW:263:THR:HG22	1:AW:268:GLU:HA	1.84	0.59
1:AX:15:HIS:O	1:AX:19:VAL:HG12	2.02	0.59
1:AX:76:GLN:O	1:AX:80:LYS:HG2	2.03	0.59
1:A1:510:LEU:HD12	1:AV:490:ILE:HG23	1.85	0.58
1:A2:68:ALA:O	1:A2:72:ILE:HG13	2.03	0.58
1:A5:175:GLU:OE2	1:A5:358:ILE:HB	2.03	0.58
1:A5:248:ALA:HA	1:A5:334:PHE:CE2	2.38	0.58
1:A6:496:SER:HA	1:A6:499:MET:CE	2.31	0.58
1:A7:133:ASN:O	1:AP:105:THR:HG21	2.03	0.58
1:A7:380:THR:HB	1:AP:283:ARG:HH12	1.68	0.58
1:A9:68:ALA:O	1:A9:72:ILE:HG13	2.03	0.58
1:A9:126:ILE:HG23	1:AH:458:ASN:HD21	1.68	0.58
1:AB:171:HIS:O	1:AB:172:VAL:HG23	2.03	0.58
1:AC:89:LEU:HD23	1:AC:92:ILE:HD13	1.85	0.58
1:AC:362:GLY:O	1:AC:365:PHE:HB3	2.02	0.58
1:AE:179:PHE:HZ	1:AE:344:VAL:HG13	1.67	0.58
1:AE:277:LYS:HB2	2:AE:609:P8E:O1B	2.03	0.58
1:AF:71:ALA:O	1:AF:75:VAL:HG23	2.02	0.58
1:AG:60:ASN:HD21	1:AW:93:LYS:CG	2.16	0.58
1:AG:281:ASP:HB2	1:AJ:382:ASN:ND2	2.18	0.58
1:AG:362:GLY:O	1:AG:365:PHE:HB3	2.03	0.58
1:AH:5:ILE:CD1	1:AH:506:GLN:HG2	2.33	0.58
1:AJ:68:ALA:O	1:AJ:72:ILE:HG13	2.03	0.58
1:AJ:184:MET:HE1	1:AJ:345:ILE:CG1	2.33	0.58
1:AL:233:ARG:HG2	1:AL:234:PHE:CD1	2.37	0.58
1:AM:312:ILE:H	1:AM:312:ILE:HD12	1.66	0.58
1:AO:89:LEU:HD23	1:AO:92:ILE:HD13	1.85	0.58
1:AO:133:ASN:O	1:AQ:105:THR:HG21	2.03	0.58
1:AQ:433:SER:O	1:AQ:437:GLN:HG3	2.03	0.58
1:AR:362:GLY:O	1:AR:365:PHE:HB3	2.02	0.58
1:AS:302:ASP:HB3	1:AS:308:ASN:ND2	2.18	0.58
1:AU:445:MET:HE2	1:AU:445:MET:CA	2.33	0.58
1:A1:88:ILE:HG22	1:A1:92:ILE:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:100:ALA:HB2	1:A5:424:ALA:HB1	1.85	0.58
1:A7:249:THR:HG22	1:A7:403:ASN:ND2	2.16	0.58
1:A8:263:THR:HG22	1:A8:268:GLU:HG3	1.83	0.58
1:A8:296:GLY:O	1:A8:312:ILE:HD12	2.03	0.58
1:A9:247:MET:HE1	1:AK:144:ASN:ND2	2.18	0.58
1:AA:279:ASP:HB3	1:AA:301:LEU:HD11	1.85	0.58
1:AB:184:MET:O	1:AB:189:ALA:HB2	2.02	0.58
1:AF:172:VAL:O	1:AF:380:THR:HA	2.04	0.58
1:AF:383:LEU:HA	1:AF:430:MET:CE	2.33	0.58
1:AJ:35:GLY:O	1:AJ:476:VAL:HG12	2.03	0.58
1:AJ:231:ILE:HG21	1:AJ:242:ALA:HB2	1.85	0.58
1:AJ:248:ALA:HA	1:AJ:334:PHE:CE2	2.38	0.58
1:AL:250:GLY:O	1:AL:306:ARG:HD2	2.03	0.58
1:AL:362:GLY:O	1:AL:365:PHE:HB3	2.03	0.58
1:AO:211:ILE:HD11	1:AO:238:LEU:CD1	2.31	0.58
1:AO:248:ALA:HA	1:AO:334:PHE:CE2	2.38	0.58
1:AO:312:ILE:H	1:AO:312:ILE:HD12	1.67	0.58
1:AP:161:ILE:HG12	1:AP:445:MET:SD	2.43	0.58
1:AP:328:VAL:HG23	1:AP:329:PHE:CD1	2.37	0.58
1:AP:360:VAL:HG23	1:AP:365:PHE:HD1	1.68	0.58
1:AP:383:LEU:HA	1:AP:430:MET:CE	2.33	0.58
1:AQ:89:LEU:HA	1:AQ:92:ILE:HD13	1.83	0.58
1:AR:395:ALA:HB2	1:AR:414:ILE:HG23	1.85	0.58
1:AR:445:MET:HE2	1:AR:445:MET:CA	2.32	0.58
1:AV:233:ARG:HB3	1:AV:233:ARG:HH11	1.69	0.58
1:AX:175:GLU:OE2	1:AX:358:ILE:HB	2.03	0.58
1:A1:15:HIS:O	1:A1:19:VAL:HG12	2.03	0.58
1:A1:108:SER:HB3	1:AO:50:ILE:HD11	1.84	0.58
1:A3:63:GLN:CD	1:AS:98:GLN:HB2	2.28	0.58
1:A4:511:ARG:HG3	1:A4:512:LEU:N	2.17	0.58
1:A6:82:MET:HE1	1:A6:441:ILE:HG22	1.84	0.58
1:A6:303:ILE:HD12	1:AT:234:PHE:CZ	2.38	0.58
1:A7:495:GLY:O	1:A7:499:MET:HG3	2.03	0.58
1:AA:201:LYS:HB2	1:AA:359:ILE:HG13	1.85	0.58
1:AA:423:GLY:O	1:AA:427:VAL:HG23	2.02	0.58
1:AC:60:ASN:HD21	1:AR:93:LYS:HG2	1.67	0.58
1:AC:71:ALA:O	1:AC:75:VAL:HG23	2.04	0.58
1:AD:259:VAL:HB	1:AD:272:VAL:HG22	1.84	0.58
1:AF:360:VAL:HG23	1:AF:365:PHE:HD1	1.67	0.58
1:AH:161:ILE:HG23	1:AH:445:MET:HE1	1.85	0.58
1:AJ:100:ALA:HB2	1:AJ:424:ALA:HB1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:224:ILE:HD13	1:AK:345:ILE:O	2.02	0.58
1:AL:68:ALA:O	1:AL:72:ILE:HG13	2.04	0.58
1:AL:75:VAL:HG13	1:AL:445:MET:CG	2.30	0.58
1:AM:171:HIS:O	1:AM:172:VAL:HG23	2.03	0.58
1:AM:511:ARG:HG3	1:AM:512:LEU:N	2.17	0.58
1:AP:175:GLU:OE2	1:AP:358:ILE:HB	2.02	0.58
1:AQ:15:HIS:O	1:AQ:19:VAL:HG12	2.03	0.58
1:AR:76:GLN:O	1:AR:80:LYS:HG2	2.03	0.58
1:AR:352:ARG:HD3	1:AR:354:ASP:OD2	2.03	0.58
1:AT:249:THR:HG21	1:AT:406:GLN:OE1	2.02	0.58
1:AV:186:ALA:HB3	1:AV:334:PHE:HB2	1.85	0.58
1:AV:511:ARG:HG3	1:AV:512:LEU:N	2.17	0.58
1:AX:171:HIS:O	1:AX:172:VAL:HG23	2.03	0.58
1:AX:342:HIS:NE2	1:AX:344:VAL:HG23	2.18	0.58
1:A1:65:ILE:HG23	1:A1:456:ILE:HD12	1.85	0.58
1:A2:112:LEU:HD11	1:AU:46:SER:OG	2.04	0.58
1:A7:370:PHE:HA	1:A7:376:VAL:CG1	2.33	0.58
1:A7:382:ASN:ND2	1:AP:281:ASP:HB2	2.18	0.58
1:A8:362:GLY:O	1:A8:365:PHE:HB3	2.02	0.58
1:A9:250:GLY:O	1:A9:306:ARG:HD2	2.02	0.58
1:AC:117:GLN:HE22	1:AC:387:ARG:HD2	1.69	0.58
1:AC:234:PHE:HE2	1:AO:303:ILE:O	1.87	0.58
1:AD:445:MET:HE2	1:AD:445:MET:HA	1.85	0.58
1:AE:187:SER:HB3	1:AE:335:ALA:CB	2.32	0.58
1:AE:360:VAL:HG23	1:AE:365:PHE:HD1	1.68	0.58
1:AF:171:HIS:O	1:AF:172:VAL:HG23	2.03	0.58
1:AF:283:ARG:HH12	1:AS:380:THR:HB	1.69	0.58
1:AK:508:ASN:CA	1:AK:511:ARG:HG2	2.25	0.58
1:AL:277:LYS:HB2	2:AL:609:P8E:O1B	2.03	0.58
1:AM:89:LEU:HA	1:AM:92:ILE:HD13	1.84	0.58
1:AM:174:MET:HE1	1:AM:426:ILE:HD11	1.86	0.58
1:AN:383:LEU:HA	1:AN:430:MET:CE	2.33	0.58
1:AO:175:GLU:OE2	1:AO:358:ILE:HB	2.03	0.58
1:AO:259:VAL:CG1	1:AO:262:LEU:HB2	2.32	0.58
1:AR:89:LEU:HA	1:AR:92:ILE:HD13	1.85	0.58
1:AR:263:THR:CG2	1:AR:268:GLU:HG3	2.34	0.58
1:AR:496:SER:OG	1:AU:512:LEU:HD22	2.03	0.58
1:AT:423:GLY:HA2	1:AT:426:ILE:HD13	1.85	0.58
1:AT:471:SER:HB2	1:AT:475:ASP:OD2	2.03	0.58
1:AV:167:ASP:HA	1:AV:384:ARG:CB	2.31	0.58
1:AW:495:GLY:O	1:AW:499:MET:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:71:ALA:O	1:AX:75:VAL:HG23	2.04	0.58
1:A4:472:GLN:HA	1:AT:4:ARG:HH12	1.67	0.58
1:A7:179:PHE:CD1	1:A7:184:MET:HE2	2.38	0.58
1:A7:342:HIS:HE1	1:A7:344:VAL:HG23	1.66	0.58
1:A8:264:ILE:HG12	1:A8:319:VAL:HG23	1.84	0.58
1:AB:293:ASP:OD1	1:AB:294:ARG:HG3	2.03	0.58
1:AC:6:ASN:HB2	1:AR:475:ASP:OD2	2.03	0.58
1:AC:303:ILE:HA	1:AX:234:PHE:CZ	2.38	0.58
1:AD:262:LEU:O	1:AD:269:ILE:HG22	2.04	0.58
1:AE:76:GLN:O	1:AE:80:LYS:HG2	2.04	0.58
1:AE:352:ARG:HD3	1:AE:354:ASP:OD1	2.03	0.58
1:AG:508:ASN:CA	1:AG:511:ARG:HG2	2.27	0.58
1:AI:328:VAL:HG12	1:AI:329:PHE:HD1	1.67	0.58
1:AK:234:PHE:CD2	1:AN:303:ILE:HD12	2.39	0.58
1:AL:224:ILE:HD11	1:AL:246:VAL:HG22	1.86	0.58
1:AQ:68:ALA:HB3	1:AQ:456:ILE:CD1	2.31	0.58
1:AS:76:GLN:O	1:AS:80:LYS:HG2	2.03	0.58
1:AS:212:GLU:OE2	1:AT:305:GLY:HA3	2.02	0.58
1:AS:360:VAL:HG23	1:AS:365:PHE:CD1	2.37	0.58
1:AT:249:THR:HG23	1:AT:405:ALA:HB3	1.86	0.58
1:AU:187:SER:HB3	1:AU:335:ALA:HB1	1.84	0.58
1:AV:260:ARG:NH1	1:AV:323:SER:HB2	2.19	0.58
1:AX:68:ALA:HB3	1:AX:456:ILE:CD1	2.33	0.58
1:AX:196:VAL:CG2	1:AX:216:ILE:HD11	2.34	0.58
1:AX:383:LEU:HA	1:AX:430:MET:CE	2.33	0.58
1:A1:249:THR:HG23	1:A1:405:ALA:HB3	1.85	0.58
1:A1:303:ILE:HA	1:AQ:234:PHE:CZ	2.39	0.58
1:A2:283:ARG:HH12	1:AR:380:THR:HB	1.68	0.58
1:A3:277:LYS:HB2	2:A3:609:P8E:O1B	2.03	0.58
1:A3:454:THR:HG21	1:AL:88:ILE:CD1	2.26	0.58
1:A5:116:ILE:HD12	1:A5:418:VAL:HG21	1.86	0.58
1:A6:98:GLN:HB2	1:AP:63:GLN:CD	2.29	0.58
1:AA:260:ARG:NH1	1:AA:323:SER:HB2	2.19	0.58
1:AA:293:ASP:OD2	1:AF:110:ARG:HD3	2.04	0.58
1:AA:365:PHE:HZ	1:AA:371:HIS:HD1	1.51	0.58
1:AB:370:PHE:HA	1:AB:376:VAL:HG11	1.85	0.58
1:AC:199:ASN:CG	1:AC:210:LYS:HD2	2.29	0.58
1:AC:206:VAL:HG11	1:AR:294:ARG:NH1	2.19	0.58
1:AD:247:MET:HE3	1:AD:402:ALA:HB2	1.84	0.58
1:AD:410:ASN:HD21	1:AD:414:ILE:HG22	1.68	0.58
1:AD:511:ARG:HH22	1:AD:512:LEU:HD22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:82:MET:HE2	1:AG:138:LEU:CD2	2.34	0.58
1:AG:312:ILE:H	1:AG:312:ILE:HD12	1.67	0.58
1:AG:380:THR:HB	1:AW:283:ARG:NH1	2.19	0.58
1:AH:172:VAL:O	1:AH:380:THR:HA	2.02	0.58
1:AH:263:THR:HG22	1:AH:268:GLU:HA	1.85	0.58
1:AJ:120:LEU:HD21	1:AJ:166:SER:CB	2.34	0.58
1:AM:68:ALA:HB3	1:AM:456:ILE:CD1	2.17	0.58
1:AM:442:ARG:HD3	1:AU:48:MET:SD	2.44	0.58
1:AO:35:GLY:O	1:AO:476:VAL:HG12	2.04	0.58
1:AQ:259:VAL:HG13	1:AQ:324:ALA:CB	2.34	0.58
1:AR:131:SER:HB3	1:AR:136:GLN:OE1	2.04	0.58
1:AS:98:GLN:HG2	1:AS:112:LEU:HD21	1.85	0.58
1:A1:471:SER:O	1:A1:475:ASP:HB2	2.02	0.58
1:A7:262:LEU:HD11	1:A7:319:VAL:HG23	1.84	0.58
1:A8:234:PHE:CZ	1:AS:303:ILE:HA	2.39	0.58
1:A8:234:PHE:CZ	1:AS:303:ILE:HD12	2.39	0.58
1:A9:305:GLY:HA3	1:AH:212:GLU:OE2	2.02	0.58
1:A9:423:GLY:HA2	1:A9:426:ILE:HD13	1.86	0.58
1:AA:187:SER:HB3	1:AA:335:ALA:CB	2.34	0.58
1:AB:312:ILE:H	1:AB:312:ILE:HD12	1.68	0.58
1:AD:380:THR:HB	1:AI:283:ARG:HH12	1.68	0.58
1:AD:395:ALA:HB2	1:AD:414:ILE:HG23	1.85	0.58
1:AE:246:VAL:HG22	1:AE:346:GLY:HA3	1.85	0.58
1:AI:362:GLY:O	1:AI:365:PHE:HB3	2.02	0.58
1:AK:433:SER:O	1:AK:437:GLN:HG3	2.03	0.58
1:AL:133:ASN:O	1:AT:105:THR:HG21	2.03	0.58
1:AL:499:MET:HE1	1:AS:479:ALA:CB	2.28	0.58
1:AM:279:ASP:HB3	1:AM:301:LEU:HD11	1.86	0.58
1:AT:89:LEU:HD23	1:AT:92:ILE:HD13	1.86	0.58
1:AT:410:ASN:HD21	1:AT:414:ILE:HG22	1.68	0.58
1:AU:98:GLN:HG2	1:AU:112:LEU:HD21	1.86	0.58
1:AW:209:TYR:CE2	1:AW:237:THR:HG22	2.38	0.58
1:AX:259:VAL:HA	1:AX:324:ALA:CB	2.34	0.58
1:AX:320:HIS:CE1	1:AX:340:THR:HA	2.38	0.58
1:A5:89:LEU:HA	1:A5:92:ILE:CD1	2.31	0.58
1:A6:89:LEU:HA	1:A6:92:ILE:HD12	1.85	0.58
1:A9:88:ILE:HD11	1:A9:122:GLU:OE1	2.03	0.58
1:AB:89:LEU:HD23	1:AB:92:ILE:HD13	1.84	0.58
1:AB:463:GLN:HA	1:AB:466:VAL:HG22	1.85	0.58
1:AC:259:VAL:CG1	1:AC:262:LEU:HB2	2.34	0.58
1:AC:380:THR:HB	1:AR:283:ARG:NH1	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:189:ALA:HB3	1:AG:343:ALA:HB3	1.84	0.58
1:AH:410:ASN:HD21	1:AH:414:ILE:HG22	1.67	0.58
1:AK:250:GLY:O	1:AK:306:ARG:HD2	2.02	0.58
1:AL:74:MET:CE	1:AL:137:MET:HE1	2.32	0.58
1:AP:201:LYS:HB2	1:AP:359:ILE:HG13	1.85	0.58
1:AQ:71:ALA:O	1:AQ:75:VAL:HG23	2.04	0.58
1:AR:189:ALA:HB3	1:AR:343:ALA:HB3	1.85	0.58
1:AS:17:VAL:CG1	1:AT:34:SER:HA	2.27	0.58
1:AS:150:GLY:HA3	1:AS:155:THR:HB	1.86	0.58
1:AS:250:GLY:O	1:AS:306:ARG:HD2	2.03	0.58
1:AT:189:ALA:HB3	1:AT:343:ALA:HB3	1.84	0.58
1:AT:360:VAL:HG23	1:AT:365:PHE:CD1	2.38	0.58
1:AU:149:ILE:HD11	1:AU:157:VAL:CG2	2.32	0.58
1:AU:291:VAL:HG23	1:AU:295:THR:HG21	1.84	0.58
1:AW:370:PHE:HA	1:AW:376:VAL:HG11	1.85	0.58
1:AX:203:VAL:HG21	1:AX:209:TYR:CD2	2.37	0.58
1:A3:9:ILE:HD11	1:AS:468:ALA:HA	1.86	0.58
1:A3:35:GLY:O	1:A3:476:VAL:HG12	2.03	0.58
1:A3:445:MET:HE2	1:A3:445:MET:CA	2.33	0.58
1:A4:186:ALA:HB3	1:A4:334:PHE:HB2	1.86	0.58
1:A5:155:THR:HG23	1:AK:129:THR:HG21	1.86	0.58
1:A5:423:GLY:HA2	1:A5:426:ILE:CD1	2.33	0.58
1:A8:35:GLY:O	1:A8:476:VAL:HG12	2.04	0.58
1:A8:216:ILE:HD13	1:A8:223:GLY:HA2	1.85	0.58
1:A8:246:VAL:O	1:A8:247:MET:HG2	2.04	0.58
1:AA:93:LYS:HG2	1:AN:60:ASN:HD21	1.69	0.58
1:AA:120:LEU:HD21	1:AA:383:LEU:CG	2.34	0.58
1:AD:104:GLN:HB3	1:AD:108:SER:OG	2.04	0.58
1:AD:117:GLN:HE21	1:AD:387:ARG:HD2	1.68	0.58
1:AD:360:VAL:HG23	1:AD:365:PHE:HD1	1.68	0.58
1:AG:302:ASP:HB3	1:AG:308:ASN:HD21	1.68	0.58
1:AG:445:MET:HE2	1:AG:445:MET:CA	2.33	0.58
1:AI:81:ALA:CB	1:AI:138:LEU:HD11	2.34	0.58
1:AI:120:LEU:HD21	1:AI:166:SER:CB	2.34	0.58
1:AL:174:MET:HE3	1:AL:398:ALA:HA	1.86	0.58
1:AO:296:GLY:O	1:AO:312:ILE:HD12	2.04	0.58
1:AP:171:HIS:O	1:AP:172:VAL:HG23	2.04	0.58
1:AR:187:SER:HB3	1:AR:335:ALA:HB1	1.86	0.58
1:AU:362:GLY:O	1:AU:365:PHE:HB3	2.02	0.58
1:AV:187:SER:HB3	1:AV:335:ALA:CB	2.34	0.58
1:A1:75:VAL:HG13	1:A1:445:MET:CE	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:112:LEU:HD11	1:AO:46:SER:OG	2.03	0.58
1:A2:458:ASN:HD21	1:AV:126:ILE:HG23	1.69	0.58
1:A3:264:ILE:HD11	1:A3:295:THR:CB	2.34	0.58
1:A3:312:ILE:H	1:A3:312:ILE:HD12	1.67	0.58
1:A4:161:ILE:HG12	1:A4:445:MET:HE2	1.85	0.58
1:A4:175:GLU:HG2	1:A4:378:GLU:CG	2.31	0.58
1:A6:249:THR:HG23	1:A6:405:ALA:HB3	1.86	0.58
1:A7:60:ASN:ND2	1:AP:93:LYS:HE2	2.19	0.58
1:A8:133:ASN:O	1:AN:105:THR:HG21	2.04	0.58
1:A9:93:LYS:CG	1:AK:60:ASN:HD21	2.16	0.58
1:A9:201:LYS:HA	1:A9:208:ASP:HB2	1.86	0.58
1:AC:231:ILE:HG21	1:AC:242:ALA:HB2	1.86	0.58
1:AC:485:PHE:CE2	1:AX:501:GLN:HG3	2.38	0.58
1:AE:445:MET:HA	1:AE:445:MET:CE	2.34	0.58
1:AI:187:SER:HB3	1:AI:335:ALA:CB	2.33	0.58
1:AJ:149:ILE:HD11	1:AJ:157:VAL:CG2	2.34	0.58
1:AJ:258:THR:CG2	1:AJ:273:ASN:HA	2.27	0.58
1:AL:360:VAL:HG23	1:AL:365:PHE:CD1	2.39	0.58
1:AM:250:GLY:O	1:AM:306:ARG:HD2	2.04	0.58
1:AN:201:LYS:HB2	1:AN:359:ILE:HG13	1.86	0.58
1:AQ:360:VAL:HG23	1:AQ:365:PHE:CD1	2.38	0.58
1:AS:179:PHE:CZ	1:AS:344:VAL:HG13	2.39	0.58
1:AT:511:ARG:HG3	1:AT:512:LEU:N	2.17	0.58
1:AU:105:THR:HG21	1:AX:133:ASN:O	2.04	0.58
1:AU:248:ALA:HA	1:AU:334:PHE:CE2	2.38	0.58
1:AU:283:ARG:NH1	1:AX:380:THR:HB	2.19	0.58
1:AV:84:GLU:HA	1:AV:84:GLU:OE2	2.04	0.58
1:AV:167:ASP:CA	1:AV:384:ARG:HB2	2.33	0.58
1:AV:192:ASN:HA	1:AV:367:HIS:ND1	2.18	0.58
1:AV:262:LEU:HD12	1:AV:263:THR:N	2.19	0.58
1:A2:99:ALA:HB2	1:A2:112:LEU:CD2	2.18	0.57
1:A3:104:GLN:HB3	1:A3:108:SER:OG	2.03	0.57
1:A3:508:ASN:CA	1:A3:511:ARG:HG2	2.24	0.57
1:A4:36:LEU:HD21	1:AT:6:ASN:ND2	2.19	0.57
1:A5:380:THR:HB	1:AH:283:ARG:HH12	1.69	0.57
1:A6:14:SER:HB2	1:A6:499:MET:HG3	1.86	0.57
1:A6:171:HIS:O	1:A6:172:VAL:HG23	2.04	0.57
1:A6:212:GLU:OE2	1:AW:305:GLY:HA3	2.04	0.57
1:A8:360:VAL:HG23	1:A8:365:PHE:HD1	1.69	0.57
1:A9:15:HIS:HA	1:A9:499:MET:CE	2.34	0.57
1:AA:163:SER:OG	1:AA:168:LYS:HD3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:71:ALA:O	1:AB:75:VAL:HG23	2.04	0.57
1:AB:149:ILE:HD13	1:AB:157:VAL:CG1	2.34	0.57
1:AB:187:SER:HB3	1:AB:335:ALA:CB	2.34	0.57
1:AB:259:VAL:HG13	1:AB:324:ALA:CB	2.34	0.57
1:AB:449:GLN:HE21	1:AH:42:ALA:HB2	1.69	0.57
1:AB:511:ARG:HG3	1:AB:512:LEU:N	2.17	0.57
1:AC:224:ILE:HD11	1:AC:246:VAL:HG23	1.83	0.57
1:AC:395:ALA:HB2	1:AC:414:ILE:HG23	1.85	0.57
1:AD:100:ALA:HB2	1:AD:424:ALA:HB1	1.86	0.57
1:AE:259:VAL:HA	1:AE:324:ALA:CB	2.33	0.57
1:AE:312:ILE:H	1:AE:312:ILE:HD12	1.68	0.57
1:AF:249:THR:HG23	1:AF:405:ALA:HB3	1.86	0.57
1:AG:89:LEU:HA	1:AG:92:ILE:HD12	1.85	0.57
1:AG:360:VAL:HG23	1:AG:365:PHE:CD1	2.39	0.57
1:AI:305:GLY:HA3	1:AO:212:GLU:HG3	1.86	0.57
1:AJ:360:VAL:HG23	1:AJ:365:PHE:HD1	1.69	0.57
1:AK:362:GLY:O	1:AK:365:PHE:HB3	2.03	0.57
1:AM:116:ILE:CD1	1:AM:418:VAL:HG21	2.34	0.57
1:AM:360:VAL:HG23	1:AM:365:PHE:HD1	1.68	0.57
1:AN:201:LYS:HB2	1:AN:359:ILE:CD1	2.34	0.57
1:AN:360:VAL:HG23	1:AN:365:PHE:HD1	1.69	0.57
1:AP:389:ILE:HD12	1:AT:294:ARG:HH12	1.69	0.57
1:AS:360:VAL:HG23	1:AS:365:PHE:HD1	1.69	0.57
1:AV:312:ILE:H	1:AV:312:ILE:HD12	1.68	0.57
1:AX:68:ALA:O	1:AX:72:ILE:HG13	2.03	0.57
1:AX:291:VAL:HG23	1:AX:295:THR:HG23	1.85	0.57
1:A1:450:MET:HE1	1:AB:115:ASP:OD1	2.04	0.57
1:A4:383:LEU:HA	1:A4:430:MET:CE	2.34	0.57
1:A4:480:GLU:HB2	1:A6:15:HIS:CE1	2.39	0.57
1:A7:82:MET:SD	1:A7:441:ILE:HG22	2.44	0.57
1:A7:175:GLU:OE2	1:A7:358:ILE:HB	2.04	0.57
1:AA:15:HIS:HA	1:AA:499:MET:HE3	1.86	0.57
1:AA:471:SER:O	1:AA:475:ASP:HB2	2.04	0.57
1:AC:458:ASN:ND2	1:AO:126:ILE:HG12	2.18	0.57
1:AE:511:ARG:NH2	1:AE:512:LEU:HD22	2.20	0.57
1:AG:410:ASN:HD21	1:AG:414:ILE:HG22	1.69	0.57
1:AH:360:VAL:HG23	1:AH:365:PHE:HD1	1.68	0.57
1:AI:68:ALA:O	1:AI:72:ILE:HG13	2.05	0.57
1:AN:395:ALA:HB2	1:AN:414:ILE:HG23	1.86	0.57
1:AP:251:GLY:H	1:AP:332:GLY:CA	2.13	0.57
1:AP:445:MET:HE2	1:AP:445:MET:CA	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:174:MET:HE3	1:AU:398:ALA:HA	1.86	0.57
1:AX:104:GLN:HB3	1:AX:108:SER:OG	2.04	0.57
1:A1:195:GLU:CD	1:A1:215:ARG:HG2	2.29	0.57
1:A1:370:PHE:HA	1:A1:376:VAL:HG11	1.86	0.57
1:A2:362:GLY:O	1:A2:365:PHE:HB3	2.04	0.57
1:A3:76:GLN:O	1:A3:80:LYS:HG2	2.04	0.57
1:A3:248:ALA:HA	1:A3:334:PHE:CZ	2.38	0.57
1:A4:496:SER:HB2	1:AF:512:LEU:HD23	1.86	0.57
1:A5:35:GLY:O	1:A5:476:VAL:HG12	2.04	0.57
1:A6:303:ILE:HD12	1:AT:234:PHE:CE1	2.39	0.57
1:A9:161:ILE:HG23	1:A9:445:MET:HE1	1.87	0.57
1:A9:362:GLY:O	1:A9:365:PHE:HB3	2.03	0.57
1:AA:97:VAL:HG22	1:AA:428:MET:SD	2.45	0.57
1:AC:15:HIS:CD2	1:AU:480:GLU:HB2	2.39	0.57
1:AC:61:LEU:O	1:AC:65:ILE:HG13	2.04	0.57
1:AC:234:PHE:CZ	1:AO:303:ILE:HD12	2.39	0.57
1:AC:454:THR:HG21	1:AO:88:ILE:HD11	1.86	0.57
1:AD:171:HIS:O	1:AD:172:VAL:HG23	2.03	0.57
1:AD:507:GLN:HA	1:AO:490:ILE:HD11	1.86	0.57
1:AD:510:LEU:CD1	1:AO:490:ILE:HG23	2.33	0.57
1:AG:126:ILE:HG23	1:AP:458:ASN:HD21	1.68	0.57
1:AG:201:LYS:HB2	1:AG:359:ILE:HD11	1.85	0.57
1:AJ:362:GLY:O	1:AJ:365:PHE:HB3	2.04	0.57
1:AK:360:VAL:HG23	1:AK:365:PHE:HD1	1.69	0.57
1:AK:383:LEU:HA	1:AK:430:MET:CE	2.33	0.57
1:AQ:296:GLY:O	1:AQ:312:ILE:HD12	2.05	0.57
1:AQ:357:ASP:HB2	1:AV:271:THR:O	2.04	0.57
1:AS:511:ARG:HH22	1:AS:512:LEU:HD13	1.68	0.57
1:AT:362:GLY:O	1:AT:365:PHE:HB3	2.04	0.57
1:AW:201:LYS:HB2	1:AW:359:ILE:HD11	1.85	0.57
1:AX:83:ASP:HB2	1:AX:442:ARG:NH2	2.19	0.57
1:A1:76:GLN:O	1:A1:80:LYS:HG2	2.05	0.57
1:A1:293:ASP:OD1	1:A1:294:ARG:HG3	2.04	0.57
1:A1:496:SER:HB2	1:AQ:512:LEU:HD23	1.86	0.57
1:A2:496:SER:HB2	1:AM:512:LEU:HD23	1.86	0.57
1:A5:74:MET:HB3	1:A5:137:MET:HE1	1.86	0.57
1:A6:99:ALA:CB	1:A6:112:LEU:HD22	2.22	0.57
1:A6:360:VAL:HG23	1:A6:365:PHE:HD1	1.69	0.57
1:A8:60:ASN:HD22	1:A8:60:ASN:N	2.02	0.57
1:AC:179:PHE:CZ	1:AC:344:VAL:HG13	2.39	0.57
1:AD:380:THR:HB	1:AI:283:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:68:ALA:O	1:AE:72:ILE:HG13	2.04	0.57
1:AE:88:ILE:HG22	1:AE:92:ILE:HD11	1.85	0.57
1:AE:89:LEU:HD23	1:AE:92:ILE:HD13	1.86	0.57
1:AF:247:MET:HE1	1:AS:144:ASN:ND2	2.19	0.57
1:AG:248:ALA:HA	1:AG:334:PHE:CZ	2.39	0.57
1:AI:496:SER:OG	1:AO:512:LEU:HD23	2.05	0.57
1:AJ:201:LYS:HA	1:AJ:208:ASP:HB2	1.87	0.57
1:AM:283:ARG:HH12	1:AU:380:THR:HB	1.67	0.57
1:AT:184:MET:O	1:AT:189:ALA:HB2	2.05	0.57
1:AU:225:GLY:HA2	1:AU:244:TYR:CD1	2.39	0.57
1:AW:167:ASP:HA	1:AW:384:ARG:CB	2.34	0.57
1:AW:249:THR:HG23	1:AW:405:ALA:HB3	1.87	0.57
1:A1:360:VAL:HG23	1:A1:365:PHE:HD1	1.67	0.57
1:A2:171:HIS:O	1:A2:172:VAL:HG23	2.04	0.57
1:A2:187:SER:HB3	1:A2:335:ALA:CB	2.34	0.57
1:A2:249:THR:HG23	1:A2:405:ALA:HB3	1.87	0.57
1:A2:293:ASP:OD1	1:A2:294:ARG:HG3	2.04	0.57
1:A2:463:GLN:HA	1:A2:466:VAL:HG22	1.86	0.57
1:A3:83:ASP:HB2	1:A3:442:ARG:HH21	1.70	0.57
1:A8:303:ILE:O	1:AE:234:PHE:HE2	1.86	0.57
1:A9:215:ARG:HB3	1:A9:215:ARG:NH1	2.19	0.57
1:AA:186:ALA:HB3	1:AA:334:PHE:HB2	1.87	0.57
1:AA:302:ASP:HB3	1:AA:308:ASN:ND2	2.18	0.57
1:AB:93:LYS:O	1:AB:97:VAL:HG23	2.04	0.57
1:AD:120:LEU:HD13	1:AD:387:ARG:HG2	1.87	0.57
1:AO:508:ASN:CA	1:AO:511:ARG:HG2	2.26	0.57
1:AP:35:GLY:O	1:AP:476:VAL:HG12	2.05	0.57
1:AP:76:GLN:O	1:AP:80:LYS:HG2	2.04	0.57
1:AP:187:SER:HB3	1:AP:335:ALA:CB	2.34	0.57
1:AQ:263:THR:CG2	1:AQ:268:GLU:HG3	2.35	0.57
1:AR:78:ALA:HB2	1:AR:137:MET:HE1	1.86	0.57
1:AR:171:HIS:O	1:AR:172:VAL:HG23	2.04	0.57
1:AX:234:PHE:O	1:AX:238:LEU:HG	2.05	0.57
1:A2:294:ARG:NH2	1:AR:206:VAL:HG11	2.19	0.57
1:A2:360:VAL:HG23	1:A2:365:PHE:HD1	1.68	0.57
1:A3:157:VAL:HG11	1:A3:452:LEU:CD2	2.35	0.57
1:A4:179:PHE:HZ	1:A4:344:VAL:HG13	1.69	0.57
1:A5:133:ASN:O	1:AH:105:THR:HG21	2.05	0.57
1:A5:146:GLU:HB2	1:A5:158:LYS:HD2	1.87	0.57
1:A5:277:LYS:HB2	2:A5:609:P8E:O1B	2.04	0.57
1:A6:187:SER:HB3	1:A6:335:ALA:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:93:LYS:HG2	1:AK:60:ASN:ND2	2.19	0.57
1:A9:471:SER:O	1:A9:475:ASP:HB2	2.03	0.57
1:A9:475:ASP:CB	1:AK:4:ARG:HD3	2.34	0.57
1:AA:74:MET:HE3	1:AA:137:MET:HE1	1.87	0.57
1:AA:449:GLN:HE21	1:AN:42:ALA:HB2	1.70	0.57
1:AA:511:ARG:HG3	1:AA:512:LEU:N	2.17	0.57
1:AB:149:ILE:HD13	1:AB:157:VAL:HG12	1.87	0.57
1:AB:296:GLY:O	1:AB:312:ILE:HD12	2.04	0.57
1:AC:98:GLN:HG2	1:AC:112:LEU:HD21	1.85	0.57
1:AC:380:THR:HB	1:AR:283:ARG:HH12	1.69	0.57
1:AD:35:GLY:O	1:AD:476:VAL:HG12	2.03	0.57
1:AD:352:ARG:NH2	1:AD:356:ARG:HH21	2.03	0.57
1:AE:259:VAL:CG1	1:AE:262:LEU:HB2	2.33	0.57
1:AE:445:MET:HE2	1:AE:445:MET:CA	2.32	0.57
1:AF:201:LYS:HB2	1:AF:359:ILE:CD1	2.34	0.57
1:AG:263:THR:HG22	1:AG:268:GLU:HA	1.85	0.57
1:AI:5:ILE:CD1	1:AI:506:GLN:HG2	2.35	0.57
1:AL:81:ALA:HB3	1:AL:138:LEU:HD11	1.87	0.57
1:AL:458:ASN:HB2	1:AP:84:GLU:HG2	1.85	0.57
1:AM:150:GLY:HA3	1:AM:155:THR:HB	1.86	0.57
1:AP:224:ILE:HD11	1:AP:246:VAL:HG23	1.87	0.57
1:AQ:122:GLU:HG3	1:AR:451:GLU:HG3	1.87	0.57
1:AQ:171:HIS:O	1:AQ:172:VAL:HG23	2.03	0.57
1:AR:296:GLY:O	1:AR:312:ILE:HD12	2.05	0.57
1:AR:511:ARG:HH12	1:AR:512:LEU:CD1	2.17	0.57
1:AV:249:THR:HG23	1:AV:405:ALA:HB3	1.85	0.57
1:A1:98:GLN:HB2	1:AI:63:GLN:CD	2.30	0.57
1:A1:171:HIS:O	1:A1:172:VAL:HG23	2.05	0.57
1:A4:89:LEU:HA	1:A4:92:ILE:HD12	1.86	0.57
1:A4:203:VAL:HG21	1:A4:209:TYR:CD1	2.40	0.57
1:A9:360:VAL:HG23	1:A9:365:PHE:HD1	1.68	0.57
1:A9:383:LEU:HA	1:A9:430:MET:HE3	1.86	0.57
1:AA:281:ASP:OD2	1:AA:283:ARG:HB3	2.05	0.57
1:AC:66:ARG:HG2	1:AC:66:ARG:HH11	1.69	0.57
1:AE:5:ILE:CD1	1:AE:506:GLN:HG2	2.35	0.57
1:AE:133:ASN:O	1:AK:105:THR:HG21	2.05	0.57
1:AF:233:ARG:HG3	1:AT:139:SER:OG	2.04	0.57
1:AG:187:SER:HB3	1:AG:335:ALA:HB1	1.87	0.57
1:AH:179:PHE:HZ	1:AH:344:VAL:HG13	1.70	0.57
1:AH:422:LYS:O	1:AH:426:ILE:CD1	2.53	0.57
1:AI:68:ALA:HB3	1:AI:456:ILE:CD1	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:88:ILE:CD1	1:AO:454:THR:HG21	2.30	0.57
1:AI:284:LEU:O	1:AI:288:ILE:HG12	2.05	0.57
1:AN:68:ALA:O	1:AN:72:ILE:HG13	2.04	0.57
1:AP:61:LEU:O	1:AP:65:ILE:HG13	2.05	0.57
1:AQ:426:ILE:O	1:AQ:430:MET:HG3	2.05	0.57
1:AU:68:ALA:O	1:AU:72:ILE:HG13	2.05	0.57
1:A3:171:HIS:O	1:A3:172:VAL:HG23	2.03	0.57
1:A6:225:GLY:HA2	1:A6:244:TYR:CD1	2.39	0.57
1:A7:108:SER:O	1:A7:112:LEU:HD13	2.05	0.57
1:A7:249:THR:CG2	1:A7:405:ALA:HB3	2.35	0.57
1:A7:283:ARG:HA	1:A7:286:ASN:OD1	2.04	0.57
1:A7:454:THR:HG21	1:AJ:88:ILE:CD1	2.32	0.57
1:A9:76:GLN:O	1:A9:80:LYS:HG2	2.05	0.57
1:A9:126:ILE:HD13	1:AH:458:ASN:HD22	1.70	0.57
1:A9:129:THR:HG21	1:AH:155:THR:HG23	1.85	0.57
1:A9:201:LYS:HB2	1:A9:359:ILE:HD11	1.86	0.57
1:A9:260:ARG:NH1	1:A9:323:SER:HB2	2.19	0.57
1:A9:284:LEU:O	1:A9:288:ILE:HG12	2.04	0.57
1:A9:458:ASN:HD22	1:AA:126:ILE:HG12	1.70	0.57
1:AA:68:ALA:HB3	1:AA:456:ILE:CD1	2.22	0.57
1:AA:175:GLU:HG2	1:AA:378:GLU:CG	2.32	0.57
1:AB:203:VAL:HG21	1:AB:209:TYR:CD2	2.40	0.57
1:AB:277:LYS:HB2	2:AB:609:P8E:O1B	2.05	0.57
1:AC:319:VAL:O	1:AC:342:HIS:HD2	1.87	0.57
1:AC:360:VAL:HG23	1:AC:365:PHE:HD1	1.70	0.57
1:AE:104:GLN:HB3	1:AE:108:SER:OG	2.05	0.57
1:AE:410:ASN:HD21	1:AE:414:ILE:HG22	1.69	0.57
1:AF:105:THR:HG21	1:AS:133:ASN:O	2.05	0.57
1:AF:129:THR:HG21	1:AN:155:THR:HG23	1.86	0.57
1:AF:410:ASN:OD1	1:AF:410:ASN:O	2.22	0.57
1:AG:71:ALA:O	1:AG:75:VAL:HG23	2.05	0.57
1:AG:294:ARG:NH1	1:AU:389:ILE:HD12	2.20	0.57
1:AG:380:THR:HB	1:AW:283:ARG:HH12	1.68	0.57
1:AH:150:GLY:HA3	1:AH:155:THR:HB	1.87	0.57
1:AH:395:ALA:HB2	1:AH:414:ILE:HG23	1.87	0.57
1:AI:360:VAL:HG23	1:AI:365:PHE:CD1	2.39	0.57
1:AJ:82:MET:HE1	1:AJ:442:ARG:N	2.19	0.57
1:AJ:296:GLY:O	1:AJ:312:ILE:HD12	2.05	0.57
1:AL:100:ALA:HB2	1:AL:424:ALA:HB1	1.85	0.57
1:AN:249:THR:HG23	1:AN:405:ALA:HB3	1.87	0.57
1:AO:506:GLN:O	1:AO:509:VAL:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:291:VAL:HG23	1:AP:295:THR:HG21	1.87	0.57
1:AQ:161:ILE:HD13	1:AQ:445:MET:HE1	1.87	0.57
1:AR:68:ALA:O	1:AR:72:ILE:HG13	2.04	0.57
1:AS:120:LEU:HD23	1:AS:387:ARG:HG3	1.87	0.57
1:AT:386:VAL:HG23	1:AT:430:MET:HE1	1.87	0.57
1:AU:201:LYS:HD3	2:AU:602:P8E:O1A	2.05	0.57
1:AV:463:GLN:HA	1:AV:466:VAL:HG22	1.86	0.57
1:AX:319:VAL:H	1:AX:342:HIS:CE1	2.23	0.57
1:A2:283:ARG:NH1	1:AR:380:THR:HB	2.19	0.57
1:A2:370:PHE:HA	1:A2:376:VAL:HG11	1.86	0.57
1:A3:83:ASP:HB2	1:A3:442:ARG:NH2	2.19	0.57
1:A3:225:GLY:HA2	1:A3:244:TYR:CD1	2.39	0.57
1:A3:259:VAL:HA	1:A3:324:ALA:CB	2.34	0.57
1:A5:187:SER:HB3	1:A5:335:ALA:HB1	1.87	0.57
1:A5:258:THR:CG2	1:A5:273:ASN:HA	2.30	0.57
1:A6:71:ALA:O	1:A6:75:VAL:HG23	2.04	0.57
1:A7:76:GLN:O	1:A7:80:LYS:HG2	2.05	0.57
1:A7:337:ILE:HG22	1:A7:342:HIS:CG	2.40	0.57
1:A8:5:ILE:CD1	1:A8:506:GLN:HG2	2.35	0.57
1:A8:201:LYS:HB2	1:A8:359:ILE:CD1	2.35	0.57
1:AB:68:ALA:HB3	1:AB:456:ILE:CD1	2.27	0.57
1:AC:187:SER:HB3	1:AC:335:ALA:HB1	1.87	0.57
1:AD:63:GLN:CD	1:AI:98:GLN:HB2	2.30	0.57
1:AE:21:ASN:HA	1:AE:24:ASP:OD1	2.04	0.57
1:AF:472:GLN:HA	1:AS:4:ARG:HH12	1.67	0.57
1:AJ:263:THR:HG21	1:AJ:268:GLU:HG3	1.86	0.57
1:AJ:353:THR:HG23	1:AJ:433:SER:CB	2.34	0.57
1:AK:189:ALA:HB3	1:AK:343:ALA:HB3	1.86	0.57
1:AK:454:THR:HG21	1:AN:88:ILE:CD1	2.30	0.57
1:AM:15:HIS:O	1:AM:19:VAL:HG12	2.05	0.57
1:AN:175:GLU:HG2	1:AN:378:GLU:CG	2.30	0.57
1:AQ:133:ASN:CG	1:AR:50:ILE:HD11	2.29	0.57
1:AQ:211:ILE:CD1	1:AQ:238:LEU:HD21	2.35	0.57
1:AT:319:VAL:H	1:AT:342:HIS:HD2	1.53	0.57
1:AV:171:HIS:O	1:AV:172:VAL:HG23	2.04	0.57
1:AV:296:GLY:O	1:AV:312:ILE:HD12	2.05	0.57
1:AV:366:SER:HB2	1:AV:371:HIS:HB2	1.87	0.57
1:A1:201:LYS:HA	1:A1:208:ASP:HB2	1.87	0.57
1:A3:8:ASN:HB3	1:A3:11:ALA:HB3	1.86	0.57
1:A5:410:ASN:HD21	1:A5:414:ILE:CG2	2.18	0.57
1:A7:297:VAL:HG21	1:A7:317:ILE:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:157:VAL:HG11	1:A8:452:LEU:HD21	1.87	0.57
1:AA:105:THR:HG21	1:AN:133:ASN:O	2.05	0.57
1:AB:263:THR:CG2	1:AB:268:GLU:HG3	2.35	0.57
1:AB:353:THR:HG23	1:AB:433:SER:CB	2.31	0.57
1:AC:133:ASN:O	1:AR:105:THR:HG21	2.05	0.57
1:AG:421:LEU:HD21	1:AJ:146:GLU:CG	2.35	0.57
1:AI:84:GLU:HG2	1:AO:458:ASN:HB2	1.87	0.57
1:AI:201:LYS:HB2	1:AI:359:ILE:HG13	1.85	0.57
1:AI:263:THR:CG2	1:AI:268:GLU:HG3	2.35	0.57
1:AM:103:GLY:HA2	1:AU:74:MET:HE1	1.86	0.57
1:AP:511:ARG:CZ	1:AP:512:LEU:HG	2.35	0.57
1:AT:68:ALA:HB3	1:AT:456:ILE:CD1	2.35	0.57
1:AU:211:ILE:CD1	1:AU:238:LEU:HD11	2.32	0.57
1:AV:76:GLN:O	1:AV:80:LYS:HG2	2.04	0.57
1:A3:82:MET:SD	1:A3:441:ILE:HG22	2.45	0.56
1:A4:249:THR:HG23	1:A4:405:ALA:HB3	1.86	0.56
1:A6:104:GLN:HB3	1:A6:108:SER:OG	2.05	0.56
1:A6:172:VAL:O	1:A6:380:THR:HA	2.04	0.56
1:A7:203:VAL:HG21	1:A7:209:TYR:CD2	2.40	0.56
1:A8:139:SER:HB2	1:AK:233:ARG:HG3	1.86	0.56
1:AA:98:GLN:HB2	1:AN:63:GLN:CD	2.30	0.56
1:AD:68:ALA:O	1:AD:72:ILE:HG13	2.05	0.56
1:AG:68:ALA:O	1:AG:72:ILE:HG13	2.05	0.56
1:AH:303:ILE:HA	1:AI:234:PHE:HZ	1.65	0.56
1:AI:259:VAL:HG13	1:AI:324:ALA:CB	2.35	0.56
1:AI:511:ARG:HH12	1:AI:512:LEU:HD13	1.69	0.56
1:AK:171:HIS:O	1:AK:172:VAL:HG23	2.05	0.56
1:AK:248:ALA:HA	1:AK:334:PHE:CE2	2.40	0.56
1:AL:224:ILE:HD11	1:AL:246:VAL:HG23	1.86	0.56
1:AO:445:MET:HE2	1:AO:445:MET:CA	2.34	0.56
1:AP:201:LYS:HB2	1:AP:359:ILE:HD11	1.86	0.56
1:AV:370:PHE:HA	1:AV:376:VAL:HG11	1.87	0.56
1:A4:149:ILE:HD13	1:A4:157:VAL:CG1	2.34	0.56
1:A5:68:ALA:O	1:A5:72:ILE:HG13	2.05	0.56
1:A5:296:GLY:O	1:A5:312:ILE:HD12	2.05	0.56
1:A6:291:VAL:HG23	1:A6:295:THR:HG21	1.86	0.56
1:A8:445:MET:HE2	1:A8:445:MET:CA	2.32	0.56
1:A9:224:ILE:HD12	1:A9:244:TYR:HB2	1.86	0.56
1:AB:284:LEU:O	1:AB:288:ILE:HG12	2.05	0.56
1:AC:209:TYR:CE2	1:AC:237:THR:HG22	2.40	0.56
1:AE:120:LEU:HD23	1:AE:120:LEU:C	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:248:ALA:HA	1:AE:334:PHE:CE2	2.39	0.56
1:AG:105:THR:HG21	1:AJ:133:ASN:O	2.04	0.56
1:AG:283:ARG:NH1	1:AJ:380:THR:HB	2.20	0.56
1:AH:171:HIS:O	1:AH:172:VAL:HG23	2.04	0.56
1:AJ:224:ILE:HD11	1:AJ:246:VAL:HG22	1.87	0.56
1:AJ:426:ILE:HD12	1:AJ:426:ILE:H	1.69	0.56
1:AK:512:LEU:HD22	1:AN:496:SER:OG	2.05	0.56
1:AO:382:ASN:ND2	1:AQ:281:ASP:HB2	2.20	0.56
1:AQ:68:ALA:O	1:AQ:72:ILE:HG13	2.05	0.56
1:AR:117:GLN:HE21	1:AR:387:ARG:HD2	1.69	0.56
1:AR:360:VAL:HG23	1:AR:365:PHE:HD1	1.70	0.56
1:AT:120:LEU:CD2	1:AT:387:ARG:HG3	2.35	0.56
1:AT:187:SER:HB3	1:AT:335:ALA:HB1	1.86	0.56
1:AU:258:THR:HG22	1:AU:273:ASN:CA	2.20	0.56
1:AW:171:HIS:O	1:AW:172:VAL:HG23	2.05	0.56
1:A1:120:LEU:CD2	1:A1:383:LEU:HG	2.35	0.56
1:A1:149:ILE:HD11	1:A1:157:VAL:CG2	2.34	0.56
1:A1:472:GLN:HA	1:AI:4:ARG:HH11	1.70	0.56
1:A2:133:ASN:CG	1:AM:50:ILE:HD11	2.29	0.56
1:A2:284:LEU:O	1:A2:288:ILE:HG12	2.04	0.56
1:A3:231:ILE:HG21	1:A3:242:ALA:HB2	1.87	0.56
1:A3:395:ALA:HB2	1:A3:414:ILE:HG23	1.88	0.56
1:A7:89:LEU:HA	1:A7:92:ILE:HD13	1.85	0.56
1:A7:209:TYR:CE2	1:A7:237:THR:HG22	2.41	0.56
1:A7:246:VAL:HG22	1:A7:346:GLY:HA3	1.87	0.56
1:A8:423:GLY:HA2	1:A8:426:ILE:HD13	1.87	0.56
1:A9:171:HIS:O	1:A9:172:VAL:HG23	2.05	0.56
1:AA:5:ILE:HG12	1:AA:510:LEU:HD11	1.87	0.56
1:AA:203:VAL:HG21	1:AA:209:TYR:CD2	2.40	0.56
1:AA:277:LYS:HB2	2:AA:609:P8E:O1B	2.05	0.56
1:AB:262:LEU:HD12	1:AB:263:THR:N	2.21	0.56
1:AB:362:GLY:O	1:AB:365:PHE:HB3	2.04	0.56
1:AC:15:HIS:O	1:AC:19:VAL:HG12	2.06	0.56
1:AC:279:ASP:HB3	1:AC:301:LEU:HD11	1.86	0.56
1:AD:263:THR:CG2	1:AD:268:GLU:HG3	2.36	0.56
1:AD:509:VAL:HG13	1:AD:510:LEU:HD23	1.87	0.56
1:AE:35:GLY:O	1:AE:476:VAL:HG12	2.04	0.56
1:AE:383:LEU:HA	1:AE:430:MET:CE	2.35	0.56
1:AF:201:LYS:HB2	1:AF:359:ILE:HG13	1.87	0.56
1:AF:495:GLY:O	1:AF:499:MET:HG3	2.06	0.56
1:AG:99:ALA:HB2	1:AG:112:LEU:CD2	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:179:PHE:CZ	1:AG:344:VAL:HG13	2.39	0.56
1:AG:425:MET:HE3	1:AJ:154:ASN:HA	1.87	0.56
1:AG:496:SER:OG	1:AP:512:LEU:HD13	2.04	0.56
1:AH:192:ASN:HA	1:AH:367:HIS:ND1	2.20	0.56
1:AH:234:PHE:O	1:AH:238:LEU:HD12	2.05	0.56
1:AH:259:VAL:HG13	1:AH:324:ALA:CB	2.35	0.56
1:AH:362:GLY:O	1:AH:365:PHE:HB3	2.04	0.56
1:AI:445:MET:HE2	1:AI:445:MET:CA	2.36	0.56
1:AJ:88:ILE:HG22	1:AJ:92:ILE:HD11	1.86	0.56
1:AJ:264:ILE:HD11	1:AJ:295:THR:HG21	1.87	0.56
1:AJ:342:HIS:CE1	1:AJ:344:VAL:HG23	2.40	0.56
1:AJ:395:ALA:HB2	1:AJ:414:ILE:HG23	1.86	0.56
1:AK:167:ASP:HB3	1:AK:384:ARG:CZ	2.34	0.56
1:AK:201:LYS:HD3	2:AK:602:P8E:O1A	2.05	0.56
1:AL:234:PHE:CD2	1:AP:303:ILE:HD12	2.40	0.56
1:AM:93:LYS:CG	1:AU:60:ASN:HD21	2.19	0.56
1:AN:120:LEU:HD21	1:AN:166:SER:CB	2.35	0.56
1:AN:328:VAL:HG12	1:AN:329:PHE:HD1	1.70	0.56
1:AO:423:GLY:HA2	1:AO:426:ILE:HD13	1.87	0.56
1:AP:38:ILE:HD11	1:AP:44:ASP:HB3	1.86	0.56
1:AP:184:MET:O	1:AP:189:ALA:HB2	2.04	0.56
1:AQ:291:VAL:HG23	1:AQ:295:THR:HG23	1.87	0.56
1:AR:183:GLY:O	1:AR:188:ALA:HB3	2.05	0.56
1:AR:201:LYS:HB2	1:AR:359:ILE:HG13	1.85	0.56
1:AR:249:THR:HG23	1:AR:405:ALA:HB3	1.87	0.56
1:AS:201:LYS:HD3	2:AS:602:P8E:O1A	2.04	0.56
1:AT:171:HIS:O	1:AT:172:VAL:HG23	2.04	0.56
1:AT:445:MET:HE2	1:AT:445:MET:CA	2.34	0.56
1:AU:5:ILE:CD1	1:AU:506:GLN:HG2	2.34	0.56
1:AU:421:LEU:HD11	1:AU:425:MET:HE2	1.86	0.56
1:AX:82:MET:SD	1:AX:441:ILE:HG22	2.45	0.56
1:AX:83:ASP:HB2	1:AX:442:ARG:HH21	1.70	0.56
1:AX:264:ILE:HG22	1:AX:319:VAL:CG2	2.34	0.56
1:A2:277:LYS:HB2	2:A2:609:P8E:O1B	2.06	0.56
1:A2:490:ILE:CG2	1:AQ:510:LEU:HD12	2.35	0.56
1:A3:360:VAL:HG23	1:A3:365:PHE:HD1	1.70	0.56
1:A4:105:THR:HG21	1:AT:133:ASN:O	2.05	0.56
1:A4:172:VAL:O	1:A4:380:THR:HA	2.06	0.56
1:A6:88:ILE:CD1	1:AT:454:THR:HG21	2.30	0.56
1:A6:120:LEU:CD1	1:A6:383:LEU:HG	2.34	0.56
1:A7:171:HIS:O	1:A7:172:VAL:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:248:ALA:HA	1:A7:334:PHE:CE2	2.40	0.56
1:A8:120:LEU:HD23	1:A8:124:ASP:OD2	2.05	0.56
1:A9:172:VAL:O	1:A9:380:THR:HA	2.05	0.56
1:AA:353:THR:HG23	1:AA:433:SER:CB	2.32	0.56
1:AA:463:GLN:HA	1:AA:466:VAL:HG22	1.85	0.56
1:AC:171:HIS:O	1:AC:172:VAL:HG23	2.05	0.56
1:AC:296:GLY:O	1:AC:312:ILE:HD12	2.05	0.56
1:AD:15:HIS:O	1:AD:19:VAL:HG12	2.05	0.56
1:AE:487:LYS:O	1:AE:491:LEU:HD23	2.05	0.56
1:AF:281:ASP:HB2	1:AS:382:ASN:ND2	2.20	0.56
1:AG:277:LYS:HB2	2:AG:609:P8E:O1B	2.06	0.56
1:AJ:179:PHE:CZ	1:AJ:344:VAL:HG13	2.40	0.56
1:AJ:423:GLY:HA2	1:AJ:426:ILE:CD1	2.35	0.56
1:AN:35:GLY:O	1:AN:476:VAL:HG12	2.05	0.56
1:AO:263:THR:CG2	1:AO:268:GLU:HG3	2.35	0.56
1:AP:296:GLY:O	1:AP:312:ILE:HD12	2.05	0.56
1:AQ:122:GLU:HB2	1:AR:451:GLU:HG3	1.87	0.56
1:AT:263:THR:CG2	1:AT:268:GLU:HG3	2.35	0.56
1:AT:395:ALA:HB2	1:AT:414:ILE:HG23	1.87	0.56
1:AW:76:GLN:O	1:AW:80:LYS:HG2	2.05	0.56
1:A3:175:GLU:OE2	1:A3:358:ILE:HB	2.05	0.56
1:A4:328:VAL:HG12	1:A4:329:PHE:HD1	1.69	0.56
1:A5:445:MET:HE2	1:A5:445:MET:CA	2.33	0.56
1:A5:508:ASN:CA	1:A5:511:ARG:HG2	2.24	0.56
1:A6:35:GLY:O	1:A6:476:VAL:HG12	2.06	0.56
1:A6:61:LEU:O	1:A6:65:ILE:HG13	2.06	0.56
1:A6:296:GLY:O	1:A6:312:ILE:HD12	2.05	0.56
1:A7:395:ALA:HB2	1:A7:414:ILE:HG23	1.87	0.56
1:AB:281:ASP:HB2	1:AH:382:ASN:ND2	2.20	0.56
1:AB:337:ILE:HG22	1:AB:342:HIS:CG	2.41	0.56
1:AC:192:ASN:HA	1:AC:367:HIS:ND1	2.20	0.56
1:AC:342:HIS:CE1	1:AC:344:VAL:HG23	2.40	0.56
1:AD:146:GLU:CG	1:AI:421:LEU:HD21	2.34	0.56
1:AD:296:GLY:O	1:AD:312:ILE:HD12	2.05	0.56
1:AG:382:ASN:ND2	1:AW:281:ASP:HB2	2.21	0.56
1:AI:104:GLN:HB3	1:AI:108:SER:OG	2.06	0.56
1:AI:337:ILE:HG22	1:AI:342:HIS:ND1	2.20	0.56
1:AJ:490:ILE:CG2	1:AX:510:LEU:HD12	2.35	0.56
1:AK:263:THR:HG22	1:AK:268:GLU:HG3	1.87	0.56
1:AL:60:ASN:ND2	1:AT:93:LYS:HE2	2.21	0.56
1:AL:201:LYS:HD3	2:AL:602:P8E:O1A	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:167:ASP:HA	1:AM:384:ARG:CB	2.34	0.56
1:AM:172:VAL:O	1:AM:380:THR:HA	2.05	0.56
1:AO:262:LEU:HD11	1:AO:319:VAL:CG2	2.34	0.56
1:AP:192:ASN:HA	1:AP:367:HIS:ND1	2.20	0.56
1:AQ:184:MET:O	1:AQ:189:ALA:HB2	2.06	0.56
1:AR:337:ILE:HG22	1:AR:342:HIS:CG	2.41	0.56
1:AT:179:PHE:HZ	1:AT:344:VAL:HG13	1.69	0.56
1:AT:249:THR:CG2	1:AT:405:ALA:HB3	2.35	0.56
1:AW:149:ILE:HD13	1:AW:157:VAL:HG12	1.87	0.56
1:AW:259:VAL:HG13	1:AW:324:ALA:CB	2.36	0.56
1:AW:360:VAL:HG23	1:AW:365:PHE:HD1	1.71	0.56
1:A1:36:LEU:HD21	1:AI:6:ASN:ND2	2.21	0.56
1:A2:76:GLN:O	1:A2:80:LYS:HG2	2.05	0.56
1:A2:89:LEU:HA	1:A2:92:ILE:HD13	1.88	0.56
1:A2:447:SER:OG	1:AV:118:ARG:HG3	2.06	0.56
1:A4:129:THR:HG21	1:AF:155:THR:HG23	1.88	0.56
1:A6:201:LYS:HB2	1:A6:359:ILE:HG13	1.88	0.56
1:A7:382:ASN:O	1:A7:430:MET:HE1	2.06	0.56
1:A7:511:ARG:CZ	1:A7:512:LEU:HG	2.36	0.56
1:A9:187:SER:HB3	1:A9:335:ALA:CB	2.36	0.56
1:AB:271:THR:O	1:AH:357:ASP:HB2	2.04	0.56
1:AC:259:VAL:HB	1:AC:272:VAL:HG22	1.87	0.56
1:AC:264:ILE:HD11	1:AC:295:THR:HG21	1.87	0.56
1:AC:328:VAL:HG12	1:AC:329:PHE:HD1	1.70	0.56
1:AD:445:MET:HE2	1:AD:445:MET:CA	2.36	0.56
1:AE:63:GLN:CD	1:AK:98:GLN:HB2	2.31	0.56
1:AF:81:ALA:HB3	1:AF:138:LEU:HD11	1.88	0.56
1:AG:296:GLY:O	1:AG:312:ILE:HD12	2.06	0.56
1:AH:61:LEU:O	1:AH:65:ILE:HG13	2.05	0.56
1:AH:76:GLN:O	1:AH:80:LYS:HG2	2.04	0.56
1:AH:319:VAL:HG13	1:AH:342:HIS:HD2	1.70	0.56
1:AJ:187:SER:HB3	1:AJ:335:ALA:HB1	1.87	0.56
1:AM:249:THR:HG23	1:AM:405:ALA:HB3	1.88	0.56
1:AU:283:ARG:HH12	1:AX:380:THR:HB	1.68	0.56
1:AW:201:LYS:HB2	1:AW:359:ILE:HG13	1.87	0.56
1:AX:8:ASN:HB3	1:AX:11:ALA:HB3	1.86	0.56
1:A1:463:GLN:HA	1:A1:466:VAL:HG22	1.87	0.56
1:A4:291:VAL:HG23	1:A4:295:THR:HG23	1.88	0.56
1:A5:360:VAL:HG23	1:A5:365:PHE:CD1	2.39	0.56
1:A6:463:GLN:HA	1:A6:466:VAL:HG22	1.88	0.56
1:A7:146:GLU:CG	1:AP:421:LEU:HD21	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:277:LYS:HG2	1:A7:278:ASN:HD22	1.71	0.56
1:AA:81:ALA:HB3	1:AA:138:LEU:HD11	1.87	0.56
1:AA:136:GLN:HB3	1:AA:139:SER:OG	2.05	0.56
1:AA:369:GLY:HA2	1:AA:374:GLN:NE2	2.21	0.56
1:AB:251:GLY:N	1:AB:333:ASN:H	2.03	0.56
1:AC:175:GLU:HG2	1:AC:378:GLU:CG	2.30	0.56
1:AD:120:LEU:HD23	1:AD:120:LEU:O	2.06	0.56
1:AD:277:LYS:HB2	2:AD:609:P8E:O1B	2.04	0.56
1:AE:61:LEU:HB3	1:AE:463:GLN:HB2	1.87	0.56
1:AH:129:THR:HG21	1:AI:155:THR:HG23	1.88	0.56
1:AI:201:LYS:HB2	1:AI:359:ILE:HD11	1.87	0.56
1:AJ:171:HIS:O	1:AJ:172:VAL:HG23	2.05	0.56
1:AL:68:ALA:HB3	1:AL:456:ILE:CD1	2.34	0.56
1:AL:211:ILE:HD13	1:AL:234:PHE:HD2	1.71	0.56
1:AL:512:LEU:HD22	1:AP:496:SER:OG	2.06	0.56
1:AM:201:LYS:HA	1:AM:208:ASP:HB2	1.88	0.56
1:AO:175:GLU:HG2	1:AO:378:GLU:CG	2.28	0.56
1:AP:389:ILE:HD12	1:AT:294:ARG:NH1	2.21	0.56
1:AQ:76:GLN:O	1:AQ:80:LYS:HG2	2.05	0.56
1:AQ:362:GLY:O	1:AQ:365:PHE:HB3	2.05	0.56
1:AS:448:VAL:HG22	1:AT:118:ARG:NH2	2.21	0.56
1:AU:131:SER:HB3	1:AU:136:GLN:OE1	2.06	0.56
1:AU:179:PHE:HD1	1:AU:184:MET:HE2	1.71	0.56
1:AV:149:ILE:HD13	1:AV:157:VAL:CG1	2.35	0.56
1:A1:263:THR:CG2	1:A1:268:GLU:HG3	2.35	0.56
1:A1:511:ARG:HH12	1:A1:512:LEU:HD13	1.69	0.56
1:A2:501:GLN:HG3	1:AV:485:PHE:CE2	2.41	0.56
1:A3:68:ALA:O	1:A3:72:ILE:HG13	2.05	0.56
1:A3:175:GLU:HA	1:A3:377:ALA:O	2.06	0.56
1:A4:171:HIS:O	1:A4:172:VAL:HG23	2.04	0.56
1:A4:284:LEU:O	1:A4:288:ILE:HG12	2.06	0.56
1:A5:259:VAL:HG13	1:A5:324:ALA:CB	2.36	0.56
1:A6:281:ASP:HB2	1:AP:382:ASN:ND2	2.21	0.56
1:A7:21:ASN:HA	1:A7:24:ASP:OD1	2.05	0.56
1:A8:100:ALA:HB2	1:A8:424:ALA:HB1	1.86	0.56
1:A8:167:ASP:HB3	1:A8:384:ARG:CZ	2.36	0.56
1:AC:201:LYS:HB2	1:AC:359:ILE:HG13	1.88	0.56
1:AD:133:ASN:O	1:AI:105:THR:HG21	2.06	0.56
1:AF:259:VAL:HG13	1:AF:324:ALA:CB	2.36	0.56
1:AG:175:GLU:HG2	1:AG:378:GLU:CG	2.28	0.56
1:AG:283:ARG:HH12	1:AJ:380:THR:HB	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:249:THR:HG23	1:AH:405:ALA:HB3	1.87	0.56
1:AI:395:ALA:HB2	1:AI:414:ILE:HG23	1.87	0.56
1:AK:445:MET:HA	1:AK:445:MET:CE	2.36	0.56
1:AK:511:ARG:HH22	1:AK:512:LEU:HD13	1.70	0.56
1:AL:192:ASN:HA	1:AL:367:HIS:ND1	2.21	0.56
1:AN:386:VAL:HG22	1:AN:427:VAL:HG22	1.88	0.56
1:AP:395:ALA:HB2	1:AP:414:ILE:HG23	1.88	0.56
1:AQ:89:LEU:HD23	1:AQ:92:ILE:HD13	1.88	0.56
1:AQ:116:ILE:CD1	1:AQ:418:VAL:HG21	2.36	0.56
1:AQ:302:ASP:HB3	1:AQ:308:ASN:ND2	2.21	0.56
1:AT:15:HIS:O	1:AT:19:VAL:HG12	2.05	0.56
1:AT:75:VAL:HG11	1:AT:449:GLN:HB2	1.87	0.56
1:AU:281:ASP:HB2	1:AX:382:ASN:ND2	2.20	0.56
1:AU:296:GLY:O	1:AU:312:ILE:HD12	2.06	0.56
1:AW:423:GLY:HA2	1:AW:426:ILE:CD1	2.36	0.56
1:A3:206:VAL:HG13	1:A3:207:ASN:OD1	2.05	0.56
1:A5:451:GLU:HG3	1:AK:122:GLU:HG3	1.86	0.56
1:A7:201:LYS:HD3	2:A7:602:P8E:O1A	2.06	0.56
1:A8:63:GLN:CD	1:AN:98:GLN:HB2	2.31	0.56
1:A8:184:MET:HE1	1:A8:345:ILE:HG12	1.88	0.56
1:A8:201:LYS:HB2	1:A8:359:ILE:HG13	1.87	0.56
1:AA:76:GLN:O	1:AA:80:LYS:HG2	2.05	0.56
1:AA:161:ILE:HG12	1:AA:445:MET:HE2	1.87	0.56
1:AA:370:PHE:HA	1:AA:376:VAL:HG11	1.86	0.56
1:AB:328:VAL:HG12	1:AB:329:PHE:HD1	1.70	0.56
1:AC:89:LEU:HA	1:AC:92:ILE:HD12	1.86	0.56
1:AC:149:ILE:CD1	1:AC:455:THR:HG21	2.31	0.56
1:AD:187:SER:HB3	1:AD:335:ALA:HB1	1.88	0.56
1:AD:382:ASN:ND2	1:AI:281:ASP:HB2	2.21	0.56
1:AE:184:MET:HE1	1:AE:345:ILE:HD11	1.87	0.56
1:AG:203:VAL:HG11	1:AG:238:LEU:CD2	2.36	0.56
1:AG:305:GLY:HA3	1:AP:212:GLU:OE2	2.06	0.56
1:AG:360:VAL:HG23	1:AG:365:PHE:HD1	1.71	0.56
1:AH:149:ILE:HD13	1:AH:157:VAL:HG12	1.87	0.56
1:AI:89:LEU:HD23	1:AI:92:ILE:HD13	1.87	0.56
1:AJ:192:ASN:HA	1:AJ:367:HIS:ND1	2.21	0.56
1:AJ:511:ARG:HH22	1:AJ:512:LEU:HD13	1.70	0.56
1:AL:61:LEU:HB3	1:AL:463:GLN:HB2	1.88	0.56
1:AL:89:LEU:HA	1:AL:92:ILE:HD13	1.85	0.56
1:AL:360:VAL:HG23	1:AL:365:PHE:HD1	1.71	0.56
1:AQ:247:MET:HE2	1:AQ:310:HIS:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:360:VAL:HG23	1:AQ:365:PHE:HD1	1.70	0.56
1:AS:5:ILE:CD1	1:AS:506:GLN:HG2	2.35	0.56
1:AS:82:MET:HE1	1:AS:442:ARG:N	2.20	0.56
1:AT:5:ILE:CD1	1:AT:506:GLN:HG2	2.35	0.56
1:AT:302:ASP:HB3	1:AT:308:ASN:ND2	2.21	0.56
1:AT:337:ILE:HG22	1:AT:342:HIS:CG	2.40	0.56
1:AX:98:GLN:HG2	1:AX:112:LEU:HD21	1.88	0.56
1:AX:120:LEU:CD1	1:AX:383:LEU:HG	2.36	0.56
1:AX:319:VAL:HG12	1:AX:342:HIS:CE1	2.41	0.56
1:A1:284:LEU:O	1:A1:288:ILE:HG12	2.06	0.56
1:A1:490:ILE:CG2	1:AH:510:LEU:HD12	2.36	0.56
1:A2:263:THR:CG2	1:A2:268:GLU:HG3	2.36	0.56
1:A2:281:ASP:HB2	1:AR:382:ASN:ND2	2.21	0.56
1:A3:249:THR:HG23	1:A3:405:ALA:HB3	1.88	0.56
1:A4:116:ILE:CD1	1:A4:418:VAL:HG21	2.29	0.56
1:A6:81:ALA:CB	1:A6:138:LEU:HD11	2.35	0.56
1:A6:149:ILE:CD1	1:A6:455:THR:HG21	2.35	0.56
1:A6:442:ARG:HD3	1:AP:48:MET:SD	2.46	0.56
1:A7:68:ALA:O	1:A7:72:ILE:HG13	2.05	0.56
1:A7:107:GLU:H	1:A7:107:GLU:CD	2.14	0.56
1:A8:187:SER:HB3	1:A8:335:ALA:HB1	1.87	0.56
1:A9:118:ARG:HG3	1:AH:447:SER:OG	2.06	0.56
1:A9:203:VAL:HG21	1:A9:209:TYR:CD1	2.41	0.56
1:A9:209:TYR:CE1	1:A9:237:THR:HG22	2.41	0.56
1:A9:337:ILE:HG22	1:A9:342:HIS:CG	2.40	0.56
1:AB:120:LEU:HD21	1:AB:383:LEU:CG	2.36	0.56
1:AG:386:VAL:HG22	1:AG:427:VAL:HG22	1.88	0.56
1:AI:296:GLY:O	1:AI:312:ILE:HD12	2.05	0.56
1:AJ:89:LEU:HA	1:AJ:92:ILE:HD12	1.88	0.56
1:AK:259:VAL:HG13	1:AK:324:ALA:CB	2.36	0.56
1:AK:296:GLY:O	1:AK:312:ILE:HD12	2.05	0.56
1:AK:395:ALA:HB2	1:AK:414:ILE:HG23	1.88	0.56
1:AL:225:GLY:HA2	1:AL:244:TYR:CD1	2.41	0.56
1:AL:296:GLY:O	1:AL:312:ILE:HD12	2.06	0.56
1:AM:296:GLY:O	1:AM:312:ILE:HD12	2.06	0.56
1:AO:510:LEU:HD12	1:AR:490:ILE:CG2	2.36	0.56
1:AR:511:ARG:HG3	1:AR:512:LEU:N	2.19	0.56
1:AS:171:HIS:O	1:AS:172:VAL:HG23	2.05	0.56
1:AW:167:ASP:CA	1:AW:384:ARG:HB2	2.35	0.56
1:AW:426:ILE:HD12	1:AW:426:ILE:H	1.70	0.56
1:AX:410:ASN:HD21	1:AX:414:ILE:HG22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:41:ALA:HA	1:A1:48:MET:HE1	1.88	0.55
1:A3:187:SER:HB3	1:A3:335:ALA:HB1	1.86	0.55
1:A4:353:THR:HG23	1:A4:433:SER:CB	2.31	0.55
1:A5:211:ILE:HD13	1:A5:234:PHE:HD2	1.70	0.55
1:A6:76:GLN:O	1:A6:80:LYS:HG2	2.05	0.55
1:A7:458:ASN:HD22	1:AJ:126:ILE:HG12	1.71	0.55
1:A8:410:ASN:HD21	1:A8:414:ILE:CG2	2.19	0.55
1:A9:259:VAL:HG13	1:A9:324:ALA:CB	2.37	0.55
1:AB:475:ASP:OD1	1:AH:6:ASN:HB3	2.06	0.55
1:AC:224:ILE:HD11	1:AC:246:VAL:HG22	1.87	0.55
1:AE:249:THR:HG23	1:AE:405:ALA:HB3	1.88	0.55
1:AE:495:GLY:O	1:AE:499:MET:HE3	2.06	0.55
1:AF:463:GLN:HA	1:AF:466:VAL:HG22	1.87	0.55
1:AF:485:PHE:CE2	1:AN:501:GLN:HG3	2.41	0.55
1:AG:144:ASN:HD21	1:AW:247:MET:HE1	1.71	0.55
1:AH:296:GLY:O	1:AH:312:ILE:HD12	2.05	0.55
1:AI:171:HIS:O	1:AI:172:VAL:HG23	2.06	0.55
1:AK:201:LYS:HB2	1:AK:359:ILE:HG13	1.87	0.55
1:AP:5:ILE:CD1	1:AP:506:GLN:HG2	2.36	0.55
1:AP:68:ALA:O	1:AP:72:ILE:HG13	2.06	0.55
1:AP:263:THR:CG2	1:AP:268:GLU:HG3	2.36	0.55
1:AQ:249:THR:HG23	1:AQ:405:ALA:HB3	1.88	0.55
1:AR:15:HIS:O	1:AR:19:VAL:HG12	2.07	0.55
1:AR:41:ALA:N	1:AR:48:MET:HE1	2.20	0.55
1:AR:175:GLU:HG2	1:AR:378:GLU:CG	2.28	0.55
1:AS:447:SER:OG	1:AT:118:ARG:HG3	2.07	0.55
1:AT:68:ALA:O	1:AT:72:ILE:HG13	2.06	0.55
1:AT:259:VAL:HG13	1:AT:324:ALA:CB	2.37	0.55
1:AT:386:VAL:HG23	1:AT:430:MET:CE	2.36	0.55
1:AU:171:HIS:HD2	1:AU:382:ASN:HB3	1.71	0.55
1:AV:353:THR:HG23	1:AV:433:SER:CB	2.32	0.55
1:A1:277:LYS:HB2	2:A1:609:P8E:O1B	2.06	0.55
1:A2:214:VAL:HG11	1:A2:227:LEU:HB2	1.88	0.55
1:A4:422:LYS:O	1:A4:426:ILE:CD1	2.54	0.55
1:A6:93:LYS:HG2	1:AP:60:ASN:HD21	1.72	0.55
1:A7:196:VAL:HG21	1:A7:216:ILE:HD11	1.87	0.55
1:A9:167:ASP:HA	1:A9:384:ARG:CB	2.36	0.55
1:A9:249:THR:HG23	1:A9:405:ALA:HB3	1.88	0.55
1:AA:74:MET:CE	1:AA:137:MET:HE1	2.36	0.55
1:AA:171:HIS:O	1:AA:172:VAL:HG23	2.06	0.55
1:AB:369:GLY:HA2	1:AB:374:GLN:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:5:ILE:HG21	1:AR:478:PHE:CE2	2.42	0.55
1:AI:189:ALA:HB3	1:AI:343:ALA:HB3	1.87	0.55
1:AL:4:ARG:HH12	1:AT:472:GLN:HA	1.71	0.55
1:AL:249:THR:HG23	1:AL:405:ALA:HB3	1.89	0.55
1:AM:259:VAL:HG13	1:AM:324:ALA:CB	2.36	0.55
1:AN:171:HIS:O	1:AN:172:VAL:HG23	2.06	0.55
1:AN:179:PHE:CZ	1:AN:344:VAL:HG13	2.41	0.55
1:AO:100:ALA:HB2	1:AO:424:ALA:HB1	1.88	0.55
1:AT:201:LYS:HB2	1:AT:359:ILE:HD11	1.87	0.55
1:AV:75:VAL:HG11	1:AV:449:GLN:HB2	1.88	0.55
1:AX:35:GLY:O	1:AX:476:VAL:HG12	2.05	0.55
1:AX:337:ILE:HG22	1:AX:342:HIS:CB	2.36	0.55
1:A1:510:LEU:HD12	1:AV:490:ILE:CG2	2.37	0.55
1:A2:167:ASP:CA	1:A2:384:ARG:HB2	2.36	0.55
1:A3:65:ILE:HG13	1:A3:459:ILE:HD12	1.87	0.55
1:A3:296:GLY:O	1:A3:312:ILE:HD12	2.06	0.55
1:A5:360:VAL:HG23	1:A5:365:PHE:HD1	1.71	0.55
1:A5:382:ASN:ND2	1:AH:281:ASP:HB2	2.21	0.55
1:A8:68:ALA:O	1:A8:72:ILE:HG13	2.07	0.55
1:A8:149:ILE:HD13	1:A8:157:VAL:HG12	1.87	0.55
1:AA:84:GLU:HA	1:AA:84:GLU:OE2	2.06	0.55
1:AA:89:LEU:HA	1:AA:92:ILE:HD13	1.88	0.55
1:AB:104:GLN:HB3	1:AB:108:SER:OG	2.06	0.55
1:AD:277:LYS:HG2	1:AD:278:ASN:HD22	1.70	0.55
1:AD:445:MET:HE2	1:AD:445:MET:N	2.21	0.55
1:AE:230:ILE:HG13	1:AE:231:ILE:N	2.22	0.55
1:AE:258:THR:CG2	1:AE:273:ASN:HA	2.29	0.55
1:AG:15:HIS:O	1:AG:19:VAL:HG12	2.06	0.55
1:AG:35:GLY:O	1:AG:476:VAL:HG12	2.06	0.55
1:AG:133:ASN:ND2	1:AW:105:THR:HG23	2.22	0.55
1:AG:511:ARG:HG3	1:AG:512:LEU:N	2.19	0.55
1:AJ:250:GLY:O	1:AJ:306:ARG:HD2	2.07	0.55
1:AJ:277:LYS:HB2	2:AJ:609:P8E:O1B	2.07	0.55
1:AL:61:LEU:O	1:AL:65:ILE:HG13	2.05	0.55
1:AM:89:LEU:HD23	1:AM:92:ILE:HD13	1.88	0.55
1:AM:362:GLY:O	1:AM:365:PHE:HB3	2.05	0.55
1:AN:15:HIS:O	1:AN:19:VAL:HG12	2.05	0.55
1:AN:445:MET:HE2	1:AN:445:MET:CA	2.33	0.55
1:AP:149:ILE:HD11	1:AP:157:VAL:CG2	2.35	0.55
1:AS:277:LYS:HB2	2:AS:609:P8E:O1B	2.07	0.55
1:AV:89:LEU:HA	1:AV:92:ILE:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:122:GLU:OE2	1:AV:122:GLU:O	2.24	0.55
1:AW:174:MET:HE3	1:AW:398:ALA:HA	1.89	0.55
1:AW:174:MET:HE1	1:AW:398:ALA:HB2	1.86	0.55
1:AW:187:SER:HB3	1:AW:335:ALA:CB	2.36	0.55
1:AW:249:THR:CG2	1:AW:405:ALA:HB3	2.37	0.55
1:AX:249:THR:HG23	1:AX:405:ALA:HB3	1.89	0.55
1:A1:172:VAL:O	1:A1:380:THR:HA	2.05	0.55
1:A1:249:THR:CG2	1:A1:405:ALA:HB3	2.37	0.55
1:A3:251:GLY:H	1:A3:333:ASN:H	1.54	0.55
1:A3:410:ASN:HD21	1:A3:414:ILE:HG22	1.69	0.55
1:A4:225:GLY:HA2	1:A4:244:TYR:CD1	2.41	0.55
1:A5:495:GLY:O	1:A5:499:MET:HE3	2.06	0.55
1:A7:259:VAL:HA	1:A7:324:ALA:CB	2.36	0.55
1:A9:98:GLN:HB2	1:AK:63:GLN:CD	2.30	0.55
1:A9:234:PHE:HE1	1:AA:303:ILE:O	1.89	0.55
1:AA:15:HIS:HA	1:AA:499:MET:CE	2.36	0.55
1:AA:172:VAL:O	1:AA:380:THR:HA	2.06	0.55
1:AC:259:VAL:HA	1:AC:324:ALA:CB	2.36	0.55
1:AD:352:ARG:HH22	1:AD:356:ARG:HE	1.54	0.55
1:AE:283:ARG:HA	1:AE:286:ASN:OD1	2.06	0.55
1:AE:395:ALA:HB2	1:AE:414:ILE:HG23	1.89	0.55
1:AG:120:LEU:CD2	1:AG:166:SER:HB2	2.36	0.55
1:AI:99:ALA:HB2	1:AI:112:LEU:CD2	2.27	0.55
1:AJ:175:GLU:OE2	1:AJ:358:ILE:HB	2.07	0.55
1:AJ:410:ASN:HD21	1:AJ:414:ILE:CG2	2.19	0.55
1:AK:35:GLY:O	1:AK:476:VAL:HG12	2.07	0.55
1:AK:445:MET:HE2	1:AK:445:MET:CA	2.33	0.55
1:AM:98:GLN:HB2	1:AU:63:GLN:CD	2.31	0.55
1:AM:395:ALA:HB2	1:AM:414:ILE:HG23	1.87	0.55
1:AO:277:LYS:HB2	2:AO:609:P8E:O1B	2.06	0.55
1:AP:463:GLN:HA	1:AP:466:VAL:HG22	1.89	0.55
1:AQ:63:GLN:CD	1:AV:98:GLN:HB2	2.31	0.55
1:AQ:82:MET:HE1	1:AQ:442:ARG:N	2.22	0.55
1:AR:88:ILE:CD1	1:AU:454:THR:HG21	2.30	0.55
1:AR:129:THR:HG21	1:AU:155:THR:HG23	1.88	0.55
1:AS:166:SER:O	1:AS:383:LEU:HB3	2.06	0.55
1:AU:15:HIS:O	1:AU:19:VAL:HG12	2.06	0.55
1:AU:263:THR:CG2	1:AU:268:GLU:HG3	2.36	0.55
1:AV:293:ASP:OD1	1:AV:294:ARG:HG3	2.05	0.55
1:AW:89:LEU:HA	1:AW:92:ILE:HD12	1.87	0.55
1:A1:369:GLY:HA2	1:A1:374:GLN:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:192:ASN:HA	1:A2:367:HIS:ND1	2.21	0.55
1:A3:192:ASN:HA	1:A3:367:HIS:ND1	2.21	0.55
1:A3:370:PHE:HA	1:A3:376:VAL:CG1	2.37	0.55
1:A4:471:SER:O	1:A4:475:ASP:HB2	2.07	0.55
1:A7:224:ILE:HD11	1:A7:246:VAL:HG23	1.89	0.55
1:A7:259:VAL:HG22	1:A7:324:ALA:CB	2.36	0.55
1:AA:98:GLN:HG2	1:AA:112:LEU:HD21	1.88	0.55
1:AD:502:ALA:O	1:AD:505:VAL:HG22	2.07	0.55
1:AE:171:HIS:O	1:AE:172:VAL:HG23	2.05	0.55
1:AF:89:LEU:HD23	1:AF:92:ILE:HD13	1.89	0.55
1:AF:192:ASN:HA	1:AF:367:HIS:ND1	2.22	0.55
1:AF:263:THR:CG2	1:AF:268:GLU:HG3	2.37	0.55
1:AG:249:THR:HG23	1:AG:405:ALA:HB3	1.89	0.55
1:AI:410:ASN:HD21	1:AI:414:ILE:HG22	1.72	0.55
1:AJ:17:VAL:CG2	1:AU:33:SER:HB2	2.35	0.55
1:AK:68:ALA:O	1:AK:72:ILE:HG13	2.07	0.55
1:AK:201:LYS:HA	1:AK:208:ASP:HB2	1.89	0.55
1:AL:258:THR:CG2	1:AL:273:ASN:HA	2.28	0.55
1:AN:38:ILE:HD11	1:AN:44:ASP:HB3	1.89	0.55
1:AP:509:VAL:HG13	1:AP:510:LEU:H	1.72	0.55
1:AQ:383:LEU:HA	1:AQ:430:MET:HE2	1.87	0.55
1:AR:201:LYS:HA	1:AR:208:ASP:HB2	1.89	0.55
1:AR:251:GLY:H	1:AR:332:GLY:CA	2.14	0.55
1:AS:183:GLY:O	1:AS:188:ALA:HB3	2.06	0.55
1:AU:98:GLN:HB2	1:AX:63:GLN:CD	2.32	0.55
1:AV:68:ALA:HB3	1:AV:456:ILE:CD1	2.31	0.55
1:AV:471:SER:O	1:AV:475:ASP:HB2	2.07	0.55
1:A2:98:GLN:HB2	1:AR:63:GLN:CD	2.32	0.55
1:A4:231:ILE:HG21	1:A4:242:ALA:HB2	1.87	0.55
1:A5:303:ILE:HA	1:AD:234:PHE:CE2	2.41	0.55
1:A7:63:GLN:CD	1:AP:98:GLN:HB2	2.32	0.55
1:A8:179:PHE:CZ	1:A8:344:VAL:HG13	2.41	0.55
1:A8:201:LYS:HD3	2:A8:602:P8E:O1A	2.07	0.55
1:A9:423:GLY:HA2	1:A9:426:ILE:CD1	2.37	0.55
1:AB:370:PHE:HA	1:AB:376:VAL:CG1	2.37	0.55
1:AE:184:MET:HE1	1:AE:345:ILE:HG12	1.86	0.55
1:AE:187:SER:HB3	1:AE:335:ALA:HB1	1.88	0.55
1:AE:192:ASN:HA	1:AE:367:HIS:ND1	2.22	0.55
1:AF:76:GLN:O	1:AF:80:LYS:HG2	2.05	0.55
1:AG:38:ILE:HD11	1:AG:44:ASP:HB3	1.87	0.55
1:AG:303:ILE:HA	1:AP:234:PHE:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:122:GLU:HB2	1:AI:451:GLU:HG3	1.89	0.55
1:AI:249:THR:HG23	1:AI:405:ALA:HB3	1.88	0.55
1:AJ:186:ALA:HB2	1:AJ:334:PHE:HB2	1.88	0.55
1:AJ:201:LYS:HD3	2:AJ:602:P8E:O1A	2.07	0.55
1:AJ:418:VAL:HG22	1:AJ:427:VAL:HG21	1.88	0.55
1:AK:78:ALA:O	1:AK:82:MET:HG3	2.06	0.55
1:AO:187:SER:HB3	1:AO:335:ALA:HB1	1.89	0.55
1:AO:258:THR:CG2	1:AO:273:ASN:HA	2.28	0.55
1:AQ:328:VAL:HG12	1:AQ:329:PHE:HD2	1.72	0.55
1:AS:260:ARG:O	1:AS:261:GLU:HG3	2.07	0.55
1:AT:166:SER:O	1:AT:383:LEU:HB3	2.07	0.55
1:AU:462:THR:O	1:AU:466:VAL:HG13	2.07	0.55
1:AV:277:LYS:HB2	2:AV:609:P8E:O1B	2.07	0.55
1:AW:71:ALA:O	1:AW:75:VAL:HG23	2.07	0.55
1:A3:61:LEU:O	1:A3:65:ILE:HG13	2.06	0.55
1:A3:68:ALA:HB3	1:A3:456:ILE:CD1	2.32	0.55
1:A3:201:LYS:HB2	1:A3:359:ILE:HG13	1.88	0.55
1:A4:462:THR:O	1:A4:466:VAL:HG13	2.07	0.55
1:A5:259:VAL:HA	1:A5:324:ALA:CB	2.37	0.55
1:A8:175:GLU:OE2	1:A8:358:ILE:HB	2.06	0.55
1:A9:15:HIS:O	1:A9:19:VAL:HG12	2.06	0.55
1:A9:192:ASN:HA	1:A9:367:HIS:ND1	2.21	0.55
1:A9:447:SER:OG	1:AA:118:ARG:HG3	2.07	0.55
1:AF:136:GLN:HB3	1:AF:139:SER:OG	2.06	0.55
1:AG:118:ARG:NH2	1:AP:448:VAL:HG22	2.22	0.55
1:AG:201:LYS:HB2	1:AG:359:ILE:HG13	1.88	0.55
1:AG:224:ILE:HG13	1:AG:244:TYR:HB2	1.87	0.55
1:AG:512:LEU:HD23	1:AM:496:SER:HB2	1.87	0.55
1:AI:293:ASP:OD2	1:AI:294:ARG:HG3	2.07	0.55
1:AJ:251:GLY:H	1:AJ:333:ASN:H	1.55	0.55
1:AK:249:THR:HG23	1:AK:405:ALA:HB3	1.88	0.55
1:AK:291:VAL:HG23	1:AK:295:THR:HG21	1.89	0.55
1:AM:68:ALA:O	1:AM:72:ILE:HG13	2.07	0.55
1:AO:8:ASN:HB3	1:AO:11:ALA:HB3	1.88	0.55
1:AO:212:GLU:N	1:AO:212:GLU:OE2	2.39	0.55
1:AO:224:ILE:HD13	1:AO:345:ILE:O	2.07	0.55
1:AO:249:THR:HG23	1:AO:405:ALA:HB3	1.89	0.55
1:AP:6:ASN:O	1:AT:487:LYS:HD3	2.06	0.55
1:AR:249:THR:CG2	1:AR:405:ALA:HB3	2.37	0.55
1:AS:89:LEU:HA	1:AS:92:ILE:HD13	1.87	0.55
1:AW:225:GLY:HA2	1:AW:244:TYR:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:383:LEU:HA	1:AW:430:MET:HE3	1.88	0.55
1:AW:462:THR:O	1:AW:466:VAL:HG13	2.07	0.55
1:AX:277:LYS:HG2	1:AX:278:ASN:HD22	1.72	0.55
1:A1:187:SER:HB3	1:A1:335:ALA:HB1	1.88	0.55
1:A3:423:GLY:HA2	1:A3:426:ILE:HD13	1.88	0.55
1:A5:130:THR:HB	1:A5:138:LEU:HD13	1.88	0.55
1:A5:224:ILE:HD13	1:A5:345:ILE:O	2.07	0.55
1:A5:233:ARG:HG2	1:A5:234:PHE:CD1	2.42	0.55
1:A7:35:GLY:O	1:A7:476:VAL:HG12	2.06	0.55
1:A7:507:GLN:HB2	1:AL:490:ILE:HD11	1.89	0.55
1:AB:187:SER:HB3	1:AB:335:ALA:HB1	1.89	0.55
1:AC:35:GLY:O	1:AC:476:VAL:HG12	2.06	0.55
1:AC:122:GLU:OE1	1:AX:451:GLU:CA	2.51	0.55
1:AC:302:ASP:HB3	1:AC:308:ASN:ND2	2.21	0.55
1:AD:184:MET:HE1	1:AD:345:ILE:HG12	1.89	0.55
1:AE:175:GLU:OE2	1:AE:358:ILE:HB	2.07	0.55
1:AF:88:ILE:HD11	1:AF:122:GLU:OE1	2.06	0.55
1:AG:133:ASN:O	1:AW:105:THR:HG21	2.07	0.55
1:AH:149:ILE:HD13	1:AH:157:VAL:CG1	2.36	0.55
1:AH:201:LYS:HA	1:AH:208:ASP:HB2	1.89	0.55
1:AH:319:VAL:HG13	1:AH:342:HIS:CD2	2.41	0.55
1:AI:35:GLY:O	1:AI:476:VAL:HG12	2.07	0.55
1:AI:249:THR:CG2	1:AI:405:ALA:HB3	2.37	0.55
1:AJ:462:THR:O	1:AJ:466:VAL:HG13	2.07	0.55
1:AL:171:HIS:O	1:AL:172:VAL:HG23	2.07	0.55
1:AL:382:ASN:ND2	1:AT:281:ASP:HB2	2.21	0.55
1:AN:249:THR:CG2	1:AN:405:ALA:HB3	2.37	0.55
1:AP:149:ILE:CD1	1:AP:455:THR:HG21	2.31	0.55
1:AQ:263:THR:HG22	1:AQ:268:GLU:HG3	1.88	0.55
1:AR:511:ARG:HH12	1:AR:512:LEU:HD13	1.72	0.55
1:AS:187:SER:HB3	1:AS:335:ALA:HB1	1.87	0.55
1:AU:81:ALA:HB3	1:AU:138:LEU:HD11	1.89	0.55
1:AW:75:VAL:HG13	1:AW:445:MET:CG	2.29	0.55
1:AW:231:ILE:HG21	1:AW:242:ALA:HB2	1.87	0.55
1:AW:296:GLY:O	1:AW:312:ILE:HD12	2.07	0.55
1:AX:89:LEU:HD23	1:AX:92:ILE:HD13	1.88	0.55
1:AX:175:GLU:HG2	1:AX:378:GLU:CG	2.29	0.55
1:AX:216:ILE:HG23	1:AX:223:GLY:HA2	1.87	0.55
1:A1:155:THR:HG23	1:AB:129:THR:HG21	1.87	0.55
1:A1:353:THR:HG23	1:A1:433:SER:CB	2.32	0.55
1:A2:36:LEU:HD21	1:AR:6:ASN:ND2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:155:THR:HG23	1:AV:129:THR:HG21	1.87	0.55
1:A2:271:THR:O	1:AR:357:ASP:HB2	2.07	0.55
1:A3:186:ALA:HB2	1:A3:334:PHE:HB2	1.89	0.55
1:A3:224:ILE:CD1	1:A3:346:GLY:HA3	2.37	0.55
1:A4:271:THR:O	1:AT:357:ASP:HB2	2.06	0.55
1:A5:82:MET:HG3	1:A5:138:LEU:HD23	1.89	0.55
1:A6:471:SER:O	1:A6:475:ASP:HB2	2.07	0.55
1:A6:485:PHE:CE2	1:AT:501:GLN:HG3	2.41	0.55
1:A8:262:LEU:HD11	1:A8:319:VAL:CG2	2.37	0.55
1:AE:88:ILE:O	1:AE:92:ILE:CD1	2.54	0.55
1:AE:421:LEU:HD11	1:AE:425:MET:HE2	1.89	0.55
1:AE:462:THR:O	1:AE:466:VAL:HG13	2.06	0.55
1:AF:353:THR:HG23	1:AF:433:SER:CB	2.29	0.55
1:AG:171:HIS:O	1:AG:172:VAL:HG23	2.06	0.55
1:AG:214:VAL:HG11	1:AG:227:LEU:HB2	1.89	0.55
1:AI:502:ALA:O	1:AI:505:VAL:HG22	2.07	0.55
1:AJ:70:ASP:O	1:AJ:74:MET:HG3	2.06	0.55
1:AJ:72:ILE:O	1:AJ:76:GLN:HG3	2.07	0.55
1:AJ:259:VAL:HG22	1:AJ:328:VAL:CG2	2.30	0.55
1:AJ:508:ASN:CA	1:AJ:511:ARG:HG2	2.23	0.55
1:AK:187:SER:HB3	1:AK:335:ALA:HB1	1.88	0.55
1:AL:112:LEU:O	1:AL:116:ILE:CD1	2.55	0.55
1:AL:259:VAL:HG13	1:AL:324:ALA:CB	2.37	0.55
1:AO:63:GLN:CD	1:AQ:98:GLN:HB2	2.32	0.55
1:AO:319:VAL:O	1:AO:342:HIS:HD2	1.89	0.55
1:AP:201:LYS:HA	1:AP:208:ASP:HB2	1.89	0.55
1:AQ:463:GLN:HA	1:AQ:466:VAL:HG22	1.88	0.55
1:AS:395:ALA:HB2	1:AS:414:ILE:HG23	1.89	0.55
1:AT:360:VAL:HG23	1:AT:365:PHE:HD1	1.72	0.55
1:AW:35:GLY:O	1:AW:476:VAL:HG12	2.07	0.55
1:AW:471:SER:O	1:AW:475:ASP:HB2	2.07	0.55
1:AX:187:SER:HB3	1:AX:335:ALA:HB1	1.88	0.55
1:A2:133:ASN:HD21	1:AM:50:ILE:HD11	1.72	0.55
1:A6:89:LEU:HD23	1:A6:92:ILE:HD13	1.89	0.55
1:A7:224:ILE:CD1	1:A7:346:GLY:HA3	2.36	0.55
1:AA:88:ILE:O	1:AA:92:ILE:CD1	2.54	0.55
1:AB:495:GLY:O	1:AB:499:MET:HG3	2.07	0.55
1:AC:263:THR:HG21	1:AC:268:GLU:HG3	1.88	0.55
1:AD:76:GLN:O	1:AD:80:LYS:HG2	2.06	0.55
1:AE:296:GLY:O	1:AE:312:ILE:HD12	2.06	0.55
1:AF:337:ILE:HG22	1:AF:342:HIS:CG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:421:LEU:HD21	1:AJ:146:GLU:HG3	1.88	0.55
1:AG:463:GLN:HA	1:AG:466:VAL:HG22	1.89	0.55
1:AH:175:GLU:HG2	1:AH:378:GLU:CG	2.30	0.55
1:AK:251:GLY:H	1:AK:332:GLY:CA	2.13	0.55
1:AL:15:HIS:O	1:AL:19:VAL:HG12	2.06	0.55
1:AL:186:ALA:HB2	1:AL:334:PHE:HB2	1.89	0.55
1:AN:167:ASP:CA	1:AN:384:ARG:HB2	2.37	0.55
1:AQ:354:ASP:OD2	1:AQ:356:ARG:HD3	2.06	0.55
1:AS:8:ASN:HB3	1:AS:11:ALA:HB3	1.89	0.55
1:AS:131:SER:HB3	1:AS:136:GLN:OE1	2.07	0.55
1:AS:234:PHE:C	1:AS:238:LEU:HD12	2.32	0.55
1:AS:262:LEU:HD12	1:AS:263:THR:N	2.22	0.55
1:AS:296:GLY:O	1:AS:312:ILE:HD12	2.06	0.55
1:AT:201:LYS:HB2	1:AT:359:ILE:HG13	1.88	0.55
1:AU:88:ILE:HG22	1:AU:92:ILE:HD11	1.88	0.55
1:AU:171:HIS:O	1:AU:172:VAL:HG23	2.07	0.55
1:AW:337:ILE:HG22	1:AW:342:HIS:ND1	2.22	0.55
1:AX:92:ILE:HG23	1:AX:116:ILE:HG23	1.89	0.55
1:AX:328:VAL:HG12	1:AX:329:PHE:HD1	1.71	0.55
1:A1:259:VAL:HG13	1:A1:324:ALA:CB	2.37	0.54
1:A2:34:SER:HA	1:AM:17:VAL:CG1	2.36	0.54
1:A2:422:LYS:O	1:A2:426:ILE:CD1	2.53	0.54
1:A8:157:VAL:HG11	1:A8:452:LEU:CD2	2.36	0.54
1:A8:234:PHE:C	1:A8:238:LEU:HD12	2.33	0.54
1:A9:496:SER:HB2	1:AH:512:LEU:HD23	1.88	0.54
1:AA:296:GLY:O	1:AA:312:ILE:HD12	2.07	0.54
1:AB:281:ASP:OD2	1:AB:283:ARG:HB3	2.08	0.54
1:AC:179:PHE:HD1	1:AC:184:MET:HE3	1.71	0.54
1:AE:328:VAL:HG12	1:AE:329:PHE:CD1	2.42	0.54
1:AG:337:ILE:HG22	1:AG:342:HIS:CG	2.42	0.54
1:AL:112:LEU:O	1:AL:116:ILE:HD12	2.07	0.54
1:AL:175:GLU:OE2	1:AL:358:ILE:HB	2.07	0.54
1:AM:167:ASP:HB3	1:AM:384:ARG:CZ	2.36	0.54
1:AT:426:ILE:O	1:AT:430:MET:HG3	2.07	0.54
1:AU:277:LYS:HB2	2:AU:609:P8E:O1B	2.08	0.54
1:AV:218:THR:O	1:AV:315:ARG:HD3	2.07	0.54
1:AW:149:ILE:HD12	1:AW:455:THR:HG21	1.88	0.54
1:A2:81:ALA:CB	1:A2:138:LEU:HD11	2.37	0.54
1:A3:224:ILE:HD11	1:A3:346:GLY:HA3	1.89	0.54
1:A3:277:LYS:HG2	1:A3:278:ASN:HD22	1.71	0.54
1:A3:320:HIS:NE2	1:A3:340:THR:HA	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:76:GLN:O	1:A4:80:LYS:HG2	2.08	0.54
1:A4:262:LEU:HD11	1:A4:319:VAL:HG23	1.88	0.54
1:A4:426:ILE:HD12	1:A4:426:ILE:H	1.72	0.54
1:A5:15:HIS:O	1:A5:19:VAL:HG12	2.07	0.54
1:A5:17:VAL:CG2	1:AK:33:SER:HB2	2.35	0.54
1:A6:496:SER:HB2	1:AT:512:LEU:HD23	1.89	0.54
1:A8:249:THR:HG23	1:A8:405:ALA:HB3	1.90	0.54
1:A9:103:GLY:HA2	1:AK:74:MET:HE2	1.88	0.54
1:AA:192:ASN:HA	1:AA:367:HIS:ND1	2.22	0.54
1:AB:179:PHE:CZ	1:AB:344:VAL:HG13	2.41	0.54
1:AB:225:GLY:HA2	1:AB:244:TYR:CD1	2.42	0.54
1:AC:167:ASP:HB3	1:AC:384:ARG:CZ	2.38	0.54
1:AE:259:VAL:HG22	1:AE:324:ALA:HB1	1.88	0.54
1:AE:277:LYS:HG2	1:AE:278:ASN:HD22	1.71	0.54
1:AF:201:LYS:HA	1:AF:208:ASP:HB2	1.89	0.54
1:AF:234:PHE:HB3	1:AF:238:LEU:HD12	1.88	0.54
1:AF:426:ILE:HD12	1:AF:426:ILE:H	1.72	0.54
1:AG:81:ALA:HB3	1:AG:138:LEU:HD11	1.88	0.54
1:AG:172:VAL:O	1:AG:380:THR:HA	2.06	0.54
1:AG:259:VAL:HG13	1:AG:324:ALA:CB	2.37	0.54
1:AH:30:GLU:HG3	1:AI:13:THR:HG21	1.90	0.54
1:AI:118:ARG:HG3	1:AO:447:SER:OG	2.08	0.54
1:AI:187:SER:HB3	1:AI:335:ALA:HB1	1.89	0.54
1:AJ:249:THR:HG23	1:AJ:405:ALA:HB3	1.90	0.54
1:AK:383:LEU:HA	1:AK:430:MET:HE3	1.88	0.54
1:AN:167:ASP:HA	1:AN:384:ARG:CB	2.35	0.54
1:AN:259:VAL:HG13	1:AN:324:ALA:CB	2.36	0.54
1:AQ:41:ALA:CB	1:AV:446:GLY:HA3	2.37	0.54
1:AR:68:ALA:HB3	1:AR:456:ILE:CD1	2.36	0.54
1:AR:201:LYS:HD3	2:AR:602:P8E:O1A	2.06	0.54
1:AS:71:ALA:O	1:AS:75:VAL:HG23	2.07	0.54
1:AS:426:ILE:O	1:AS:430:MET:HG3	2.08	0.54
1:AT:88:ILE:O	1:AT:92:ILE:CD1	2.54	0.54
1:AT:277:LYS:HB2	2:AT:609:P8E:O1B	2.08	0.54
1:AU:189:ALA:HB3	1:AU:343:ALA:HB3	1.90	0.54
1:AV:259:VAL:HG13	1:AV:324:ALA:CB	2.37	0.54
1:AW:172:VAL:O	1:AW:380:THR:HA	2.06	0.54
1:AX:106:LEU:HD12	1:AX:107:GLU:OE1	2.07	0.54
1:AX:296:GLY:O	1:AX:312:ILE:HD12	2.07	0.54
1:A1:93:LYS:CG	1:AI:60:ASN:HD21	2.17	0.54
1:A7:15:HIS:O	1:A7:19:VAL:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:201:LYS:HA	1:A7:208:ASP:HB2	1.89	0.54
1:A7:296:GLY:O	1:A7:312:ILE:HD12	2.07	0.54
1:A8:118:ARG:NH2	1:AE:448:VAL:HG22	2.21	0.54
1:A8:195:GLU:HG3	1:A8:215:ARG:HG2	1.88	0.54
1:A9:89:LEU:HA	1:A9:92:ILE:HD13	1.88	0.54
1:AA:68:ALA:HB2	1:AA:149:ILE:HG22	1.88	0.54
1:AB:192:ASN:HA	1:AB:367:HIS:ND1	2.22	0.54
1:AC:512:LEU:HD23	1:AO:496:SER:CB	2.37	0.54
1:AF:117:GLN:HE21	1:AF:387:ARG:HD2	1.72	0.54
1:AF:294:ARG:NH2	1:AS:206:VAL:HG11	2.22	0.54
1:AJ:227:LEU:O	1:AJ:230:ILE:HG12	2.06	0.54
1:AJ:480:GLU:HB2	1:AX:15:HIS:ND1	2.22	0.54
1:AK:89:LEU:HA	1:AK:92:ILE:HD12	1.88	0.54
1:AL:201:LYS:HB2	1:AL:359:ILE:HG13	1.88	0.54
1:AL:389:ILE:CD1	1:AS:294:ARG:HH21	2.20	0.54
1:AM:277:LYS:HB2	2:AM:609:P8E:O1B	2.08	0.54
1:AM:370:PHE:HA	1:AM:376:VAL:HG11	1.87	0.54
1:AM:511:ARG:HH12	1:AM:512:LEU:HD13	1.73	0.54
1:AN:490:ILE:HD11	1:AS:507:GLN:HB2	1.89	0.54
1:AQ:172:VAL:O	1:AQ:380:THR:HA	2.06	0.54
1:AT:418:VAL:HG22	1:AT:427:VAL:HG21	1.90	0.54
1:AV:163:SER:OG	1:AV:168:LYS:HD3	2.06	0.54
1:AV:172:VAL:O	1:AV:380:THR:HA	2.06	0.54
1:AV:179:PHE:CZ	1:AV:344:VAL:HG13	2.42	0.54
1:AW:81:ALA:CB	1:AW:138:LEU:HD11	2.37	0.54
1:AW:284:LEU:O	1:AW:288:ILE:HG12	2.07	0.54
1:A1:71:ALA:O	1:A1:75:VAL:HG23	2.08	0.54
1:A1:495:GLY:O	1:A1:499:MET:HG3	2.07	0.54
1:A3:161:ILE:HG12	1:A3:445:MET:SD	2.48	0.54
1:A5:249:THR:HG23	1:A5:405:ALA:HB3	1.89	0.54
1:A5:319:VAL:H	1:A5:342:HIS:HD2	1.56	0.54
1:A5:502:ALA:O	1:A5:505:VAL:HG22	2.08	0.54
1:A6:122:GLU:HG3	1:AT:451:GLU:HG3	1.89	0.54
1:A6:184:MET:O	1:A6:189:ALA:HB2	2.07	0.54
1:A6:302:ASP:HB3	1:A6:308:ASN:HD21	1.73	0.54
1:A7:6:ASN:OD1	1:AL:491:LEU:HD21	2.07	0.54
1:A7:175:GLU:HA	1:A7:377:ALA:O	2.08	0.54
1:AD:291:VAL:HG23	1:AD:295:THR:HG23	1.90	0.54
1:AF:98:GLN:HB2	1:AS:63:GLN:CD	2.32	0.54
1:AG:68:ALA:HB2	1:AG:149:ILE:HG22	1.89	0.54
1:AH:8:ASN:ND2	1:AH:11:ALA:HB2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:259:VAL:HA	1:AJ:324:ALA:CB	2.37	0.54
1:AM:463:GLN:HA	1:AM:466:VAL:HG22	1.88	0.54
1:AN:89:LEU:HD23	1:AN:92:ILE:HD13	1.90	0.54
1:AN:296:GLY:O	1:AN:312:ILE:HD12	2.07	0.54
1:AT:89:LEU:HA	1:AT:92:ILE:HD13	1.86	0.54
1:AU:89:LEU:HA	1:AU:92:ILE:HD13	1.87	0.54
1:AV:302:ASP:HB3	1:AV:308:ASN:HD21	1.72	0.54
1:A1:175:GLU:HG2	1:A1:378:GLU:CG	2.29	0.54
1:A1:192:ASN:HA	1:A1:367:HIS:ND1	2.22	0.54
1:A2:172:VAL:O	1:A2:380:THR:HA	2.06	0.54
1:A2:209:TYR:CE2	1:A2:237:THR:HG22	2.42	0.54
1:A3:65:ILE:CG1	1:A3:459:ILE:HD12	2.37	0.54
1:A4:149:ILE:HD13	1:A4:157:VAL:HG12	1.89	0.54
1:A6:98:GLN:HG2	1:A6:112:LEU:HD21	1.89	0.54
1:A6:512:LEU:HD23	1:AW:496:SER:HB2	1.89	0.54
1:A7:81:ALA:CB	1:A7:138:LEU:HD11	2.38	0.54
1:A7:410:ASN:HD21	1:A7:414:ILE:CG2	2.21	0.54
1:A8:462:THR:O	1:A8:466:VAL:HG13	2.07	0.54
1:A9:89:LEU:HA	1:A9:92:ILE:HD12	1.87	0.54
1:A9:277:LYS:HB2	2:A9:609:P8E:O1B	2.07	0.54
1:AB:76:GLN:O	1:AB:80:LYS:HG2	2.07	0.54
1:AC:249:THR:HG23	1:AC:405:ALA:HB3	1.90	0.54
1:AC:258:THR:CG2	1:AC:273:ASN:HA	2.30	0.54
1:AD:182:GLU:CG	1:AD:183:GLY:N	2.70	0.54
1:AD:249:THR:HG23	1:AD:405:ALA:HB3	1.90	0.54
1:AG:502:ALA:O	1:AG:505:VAL:HG22	2.08	0.54
1:AH:35:GLY:O	1:AH:476:VAL:HG12	2.08	0.54
1:AI:511:ARG:HG3	1:AI:512:LEU:N	2.22	0.54
1:AJ:88:ILE:O	1:AJ:92:ILE:CD1	2.53	0.54
1:AN:92:ILE:HD12	1:AN:92:ILE:H	1.72	0.54
1:AO:360:VAL:HG23	1:AO:365:PHE:HD1	1.72	0.54
1:AO:415:GLY:HA2	1:AR:294:ARG:HH21	1.72	0.54
1:AQ:61:LEU:O	1:AQ:65:ILE:HG13	2.08	0.54
1:AQ:353:THR:HG23	1:AQ:433:SER:CB	2.31	0.54
1:AR:462:THR:O	1:AR:466:VAL:HG13	2.07	0.54
1:AS:263:THR:HG21	1:AS:268:GLU:HG3	1.89	0.54
1:AU:38:ILE:HD11	1:AU:44:ASP:HB3	1.89	0.54
1:AV:104:GLN:HB3	1:AV:108:SER:OG	2.08	0.54
1:AX:76:GLN:HG3	1:AX:449:GLN:OE1	2.08	0.54
1:A1:89:LEU:HA	1:A1:92:ILE:HD13	1.89	0.54
1:A1:370:PHE:HA	1:A1:376:VAL:CG1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:167:ASP:HB3	1:A2:384:ARG:CZ	2.38	0.54
1:A3:201:LYS:HD3	2:A3:602:P8E:O1A	2.07	0.54
1:A4:118:ARG:HG3	1:AF:447:SER:OG	2.08	0.54
1:A7:445:MET:HA	1:A7:445:MET:CE	2.38	0.54
1:A8:8:ASN:ND2	1:A8:11:ALA:HB2	2.23	0.54
1:A8:98:GLN:HG2	1:A8:112:LEU:HD21	1.90	0.54
1:A8:189:ALA:HB3	1:A8:343:ALA:HB3	1.90	0.54
1:A8:353:THR:HG23	1:A8:433:SER:CB	2.35	0.54
1:AA:294:ARG:HH21	1:AF:389:ILE:CD1	2.20	0.54
1:AB:291:VAL:CG1	1:AH:356:ARG:HH21	2.20	0.54
1:AB:395:ALA:HB2	1:AB:414:ILE:HG23	1.89	0.54
1:AE:262:LEU:HD12	1:AE:263:THR:H	1.71	0.54
1:AF:370:PHE:HA	1:AF:376:VAL:CG1	2.37	0.54
1:AG:63:GLN:CD	1:AW:98:GLN:HB2	2.32	0.54
1:AG:88:ILE:CD1	1:AP:454:THR:HG21	2.34	0.54
1:AG:98:GLN:HB2	1:AJ:63:GLN:CD	2.33	0.54
1:AG:212:GLU:HA	1:AG:212:GLU:OE1	2.06	0.54
1:AH:218:THR:O	1:AH:315:ARG:HD3	2.08	0.54
1:AH:353:THR:HG23	1:AH:433:SER:CB	2.34	0.54
1:AJ:120:LEU:HD21	1:AJ:166:SER:OG	2.08	0.54
1:AJ:120:LEU:HD23	1:AJ:120:LEU:O	2.07	0.54
1:AO:83:ASP:HB2	1:AO:442:ARG:HH21	1.73	0.54
1:AO:259:VAL:HB	1:AO:272:VAL:HG22	1.89	0.54
1:AQ:395:ALA:HB2	1:AQ:414:ILE:HG23	1.89	0.54
1:AR:5:ILE:CD1	1:AR:506:GLN:HG2	2.38	0.54
1:AR:485:PHE:CE2	1:AU:501:GLN:HG3	2.42	0.54
1:AU:218:THR:O	1:AU:315:ARG:HD3	2.07	0.54
1:AW:263:THR:CG2	1:AW:268:GLU:HG3	2.38	0.54
1:AX:251:GLY:H	1:AX:333:ASN:H	1.55	0.54
1:AX:462:THR:O	1:AX:466:VAL:HG13	2.07	0.54
1:A1:201:LYS:HB2	1:A1:359:ILE:CD1	2.37	0.54
1:A2:337:ILE:HG22	1:A2:342:HIS:CG	2.43	0.54
1:A3:328:VAL:HG12	1:A3:329:PHE:CD1	2.43	0.54
1:A4:192:ASN:HA	1:A4:367:HIS:ND1	2.23	0.54
1:A6:74:MET:CB	1:A6:137:MET:HE1	2.35	0.54
1:A7:390:PHE:CE2	1:A7:417:GLY:HA2	2.43	0.54
1:A9:167:ASP:CA	1:A9:384:ARG:HB2	2.36	0.54
1:A9:370:PHE:HA	1:A9:376:VAL:CG1	2.37	0.54
1:AA:149:ILE:HD13	1:AA:157:VAL:CG1	2.37	0.54
1:AA:362:GLY:O	1:AA:365:PHE:HB3	2.08	0.54
1:AA:395:ALA:HB2	1:AA:414:ILE:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:8:ASN:HB3	1:AB:11:ALA:HB3	1.89	0.54
1:AC:486:SER:O	1:AC:490:ILE:HG12	2.08	0.54
1:AF:167:ASP:CA	1:AF:384:ARG:HB2	2.37	0.54
1:AG:201:LYS:HA	1:AG:208:ASP:HB2	1.89	0.54
1:AM:136:GLN:HB3	1:AM:139:SER:OG	2.07	0.54
1:AM:161:ILE:HD13	1:AM:445:MET:HE1	1.90	0.54
1:AN:462:THR:O	1:AN:466:VAL:HG13	2.07	0.54
1:AO:161:ILE:HG12	1:AO:445:MET:SD	2.47	0.54
1:AO:410:ASN:HD21	1:AO:414:ILE:CG2	2.21	0.54
1:AP:259:VAL:O	1:AP:271:THR:HG23	2.07	0.54
1:AR:97:VAL:HG22	1:AR:428:MET:SD	2.46	0.54
1:AR:410:ASN:HD21	1:AR:414:ILE:HG22	1.73	0.54
1:AS:445:MET:HE2	1:AS:445:MET:CA	2.35	0.54
1:AU:442:ARG:HD3	1:AX:48:MET:SD	2.47	0.54
1:A1:105:THR:HG21	1:AI:133:ASN:O	2.08	0.54
1:A1:296:GLY:O	1:A1:312:ILE:HD12	2.07	0.54
1:A6:50:ILE:HD13	1:AW:133:ASN:ND2	2.22	0.54
1:A9:6:ASN:O	1:AB:487:LYS:HE2	2.08	0.54
1:A9:279:ASP:HB3	1:A9:301:LEU:HD11	1.88	0.54
1:AA:264:ILE:HD11	1:AA:288:ILE:CD1	2.37	0.54
1:AC:63:GLN:CD	1:AR:98:GLN:HB2	2.33	0.54
1:AC:68:ALA:HB3	1:AC:456:ILE:CD1	2.38	0.54
1:AD:462:THR:O	1:AD:466:VAL:HG13	2.07	0.54
1:AE:42:ALA:HB2	1:AK:449:GLN:HE21	1.72	0.54
1:AG:42:ALA:HB2	1:AW:449:GLN:HE21	1.73	0.54
1:AI:157:VAL:HG11	1:AI:452:LEU:CD2	2.38	0.54
1:AI:175:GLU:HG2	1:AI:378:GLU:CG	2.29	0.54
1:AJ:264:ILE:HG22	1:AJ:319:VAL:CB	2.25	0.54
1:AL:249:THR:CG2	1:AL:405:ALA:HB3	2.38	0.54
1:AL:410:ASN:HD21	1:AL:414:ILE:CG2	2.20	0.54
1:AM:471:SER:O	1:AM:475:ASP:HB2	2.08	0.54
1:AQ:108:SER:O	1:AQ:112:LEU:HD12	2.07	0.54
1:AQ:462:THR:O	1:AQ:466:VAL:HG13	2.08	0.54
1:AX:249:THR:CG2	1:AX:405:ALA:HB3	2.38	0.54
1:A1:120:LEU:HD21	1:A1:383:LEU:CG	2.37	0.54
1:A2:175:GLU:HG2	1:A2:378:GLU:CG	2.30	0.54
1:A3:249:THR:CG2	1:A3:405:ALA:HB3	2.38	0.54
1:A3:348:LEU:HD22	1:A3:370:PHE:HE2	1.72	0.54
1:A4:187:SER:HB3	1:A4:335:ALA:HB1	1.88	0.54
1:A5:171:HIS:O	1:A5:172:VAL:HG23	2.07	0.54
1:A5:192:ASN:HA	1:A5:367:HIS:ND1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:201:LYS:HD3	2:A5:602:P8E:O1A	2.07	0.54
1:A5:227:LEU:O	1:A5:230:ILE:HG12	2.07	0.54
1:A8:511:ARG:HH22	1:A8:512:LEU:HD13	1.72	0.54
1:AC:199:ASN:CB	1:AC:210:LYS:HD2	2.38	0.54
1:AD:249:THR:CG2	1:AD:405:ALA:HB3	2.38	0.54
1:AD:259:VAL:HA	1:AD:324:ALA:CB	2.38	0.54
1:AE:89:LEU:HA	1:AE:92:ILE:HD13	1.88	0.54
1:AF:490:ILE:CG2	1:AT:510:LEU:HD12	2.38	0.54
1:AG:108:SER:O	1:AG:112:LEU:HD12	2.08	0.54
1:AG:429:ASP:OD1	1:AJ:153:SER:HB2	2.07	0.54
1:AJ:302:ASP:OD2	1:AJ:306:ARG:HB2	2.06	0.54
1:AJ:319:VAL:O	1:AJ:342:HIS:HD2	1.91	0.54
1:AN:471:SER:O	1:AN:475:ASP:HB2	2.08	0.54
1:AO:251:GLY:H	1:AO:332:GLY:CA	2.16	0.54
1:AQ:34:SER:CA	1:AR:17:VAL:HG11	2.32	0.54
1:AQ:89:LEU:HA	1:AQ:92:ILE:HD12	1.88	0.54
1:AQ:211:ILE:HD12	1:AQ:234:PHE:HD2	1.73	0.54
1:AQ:249:THR:CG2	1:AQ:405:ALA:HB3	2.38	0.54
1:AT:463:GLN:HA	1:AT:466:VAL:HG22	1.90	0.54
1:A1:478:PHE:HE2	1:AI:5:ILE:HG21	1.72	0.54
1:A2:458:ASN:ND2	1:AV:126:ILE:HG23	2.23	0.54
1:A4:167:ASP:CA	1:A4:384:ARG:HB2	2.36	0.54
1:A4:189:ALA:HB3	1:A4:343:ALA:HB3	1.90	0.54
1:A4:495:GLY:O	1:A4:499:MET:HG3	2.08	0.54
1:A6:337:ILE:HG22	1:A6:342:HIS:CG	2.43	0.54
1:A7:56:SER:O	1:A7:60:ASN:OD1	2.26	0.54
1:A8:104:GLN:HB3	1:A8:108:SER:OG	2.08	0.54
1:A8:192:ASN:HA	1:A8:367:HIS:ND1	2.22	0.54
1:A8:231:ILE:HG21	1:A8:242:ALA:HB2	1.90	0.54
1:A9:212:GLU:HA	1:A9:212:GLU:OE1	2.07	0.54
1:A9:369:GLY:HA2	1:A9:374:GLN:NE2	2.23	0.54
1:AA:370:PHE:HA	1:AA:376:VAL:CG1	2.37	0.54
1:AD:186:ALA:HB2	1:AD:334:PHE:HB2	1.89	0.54
1:AD:209:TYR:CE1	1:AD:237:THR:HG22	2.43	0.54
1:AD:231:ILE:HG21	1:AD:242:ALA:HB2	1.89	0.54
1:AD:240:VAL:CG2	1:AD:352:ARG:HD2	2.31	0.54
1:AE:171:HIS:CE1	1:AK:283:ARG:HA	2.42	0.54
1:AE:249:THR:CG2	1:AE:405:ALA:HB3	2.38	0.54
1:AG:122:GLU:HB2	1:AP:451:GLU:HG3	1.88	0.54
1:AG:291:VAL:HG23	1:AG:295:THR:HG23	1.90	0.54
1:AG:294:ARG:HH12	1:AU:389:ILE:HD12	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:291:VAL:HG23	1:AI:295:THR:HG23	1.89	0.54
1:AJ:224:ILE:HD11	1:AJ:246:VAL:HG23	1.87	0.54
1:AJ:234:PHE:CE2	1:AU:303:ILE:HD12	2.43	0.54
1:AL:187:SER:HB3	1:AL:335:ALA:HB1	1.89	0.54
1:AL:462:THR:O	1:AL:466:VAL:HG13	2.08	0.54
1:AN:211:ILE:HD11	1:AN:238:LEU:HD11	1.90	0.54
1:AS:234:PHE:CE2	1:AT:303:ILE:HA	2.42	0.54
1:AS:261:GLU:O	1:AS:263:THR:HG23	2.08	0.54
1:AV:230:ILE:HG13	1:AV:231:ILE:N	2.23	0.54
1:AV:495:GLY:O	1:AV:499:MET:HG3	2.08	0.54
1:AW:167:ASP:HB3	1:AW:384:ARG:CZ	2.38	0.54
1:AX:189:ALA:HB3	1:AX:343:ALA:HB3	1.90	0.54
1:A2:249:THR:CG2	1:A2:405:ALA:HB3	2.38	0.53
1:A3:149:ILE:HD13	1:A3:157:VAL:CG1	2.38	0.53
1:A4:370:PHE:HA	1:A4:376:VAL:CG1	2.37	0.53
1:A6:116:ILE:CD1	1:A6:418:VAL:HG21	2.38	0.53
1:A6:192:ASN:HA	1:A6:367:HIS:ND1	2.23	0.53
1:A7:61:LEU:O	1:A7:65:ILE:HG13	2.08	0.53
1:A7:218:THR:O	1:A7:315:ARG:HD3	2.07	0.53
1:A7:445:MET:HE2	1:A7:445:MET:CA	2.38	0.53
1:A7:463:GLN:HA	1:A7:466:VAL:HG22	1.90	0.53
1:A9:463:GLN:HA	1:A9:466:VAL:HG22	1.89	0.53
1:AD:89:LEU:HA	1:AD:92:ILE:HD12	1.89	0.53
1:AF:296:GLY:O	1:AF:312:ILE:HD12	2.06	0.53
1:AG:511:ARG:HH12	1:AG:512:LEU:HD13	1.73	0.53
1:AI:360:VAL:HG23	1:AI:365:PHE:HD1	1.72	0.53
1:AK:15:HIS:O	1:AK:19:VAL:HG12	2.08	0.53
1:AL:92:ILE:CG2	1:AL:116:ILE:HG23	2.37	0.53
1:AM:8:ASN:ND2	1:AM:11:ALA:HB2	2.23	0.53
1:AM:214:VAL:HG11	1:AM:227:LEU:HB2	1.89	0.53
1:AO:462:THR:O	1:AO:466:VAL:HG13	2.08	0.53
1:AQ:75:VAL:CG1	1:AQ:445:MET:HG3	2.30	0.53
1:AR:353:THR:HG23	1:AR:433:SER:CB	2.32	0.53
1:AS:337:ILE:HG22	1:AS:342:HIS:CD2	2.43	0.53
1:AT:263:THR:HG22	1:AT:268:GLU:HG3	1.90	0.53
1:AW:192:ASN:HA	1:AW:367:HIS:ND1	2.23	0.53
1:AX:89:LEU:HA	1:AX:92:ILE:HD12	1.89	0.53
1:AX:211:ILE:HD11	1:AX:238:LEU:HD11	1.89	0.53
1:A1:328:VAL:HG12	1:A1:329:PHE:HD1	1.72	0.53
1:A2:54:LEU:HB3	1:A2:470:GLU:HB2	1.90	0.53
1:A2:118:ARG:HG3	1:AM:447:SER:OG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:184:MET:HA	1:A4:192:ASN:ND2	2.19	0.53
1:A4:259:VAL:HG13	1:A4:324:ALA:CB	2.39	0.53
1:A4:296:GLY:O	1:A4:312:ILE:HD12	2.07	0.53
1:A7:258:THR:CG2	1:A7:273:ASN:HA	2.33	0.53
1:A9:395:ALA:HB2	1:A9:414:ILE:HG23	1.90	0.53
1:AA:132:PHE:HB3	1:AA:137:MET:HE2	1.90	0.53
1:AC:234:PHE:CZ	1:AO:303:ILE:HA	2.43	0.53
1:AC:410:ASN:HD21	1:AC:414:ILE:CG2	2.20	0.53
1:AD:42:ALA:HB2	1:AI:449:GLN:HE21	1.74	0.53
1:AD:259:VAL:HG22	1:AD:324:ALA:CB	2.38	0.53
1:AE:82:MET:HE1	1:AE:442:ARG:HA	1.90	0.53
1:AF:163:SER:OG	1:AF:168:LYS:HD3	2.08	0.53
1:AG:479:ALA:HA	1:AJ:513:LEU:CD1	2.39	0.53
1:AI:463:GLN:HA	1:AI:466:VAL:HG22	1.90	0.53
1:AJ:293:ASP:OD1	1:AJ:294:ARG:HG3	2.07	0.53
1:AK:8:ASN:ND2	1:AK:11:ALA:HB2	2.23	0.53
1:AK:249:THR:CG2	1:AK:405:ALA:HB3	2.39	0.53
1:AK:502:ALA:O	1:AK:505:VAL:HG22	2.07	0.53
1:AL:8:ASN:ND2	1:AL:11:ALA:HB2	2.23	0.53
1:AN:412:GLN:N	1:AN:412:GLN:OE1	2.42	0.53
1:AN:490:ILE:HG22	1:AS:510:LEU:HD12	1.89	0.53
1:AO:171:HIS:HA	1:AO:381:VAL:O	2.08	0.53
1:AP:249:THR:HG23	1:AP:405:ALA:HB3	1.91	0.53
1:AP:462:THR:O	1:AP:466:VAL:HG13	2.07	0.53
1:AQ:187:SER:HB3	1:AQ:335:ALA:HB1	1.90	0.53
1:AQ:281:ASP:OD2	1:AQ:283:ARG:HB3	2.09	0.53
1:AS:112:LEU:O	1:AS:116:ILE:HG13	2.08	0.53
1:AV:370:PHE:HA	1:AV:376:VAL:CG1	2.39	0.53
1:AX:186:ALA:HB2	1:AX:334:PHE:HB2	1.90	0.53
1:A1:61:LEU:O	1:A1:65:ILE:HG13	2.08	0.53
1:A2:15:HIS:HA	1:A2:499:MET:HE3	1.89	0.53
1:A3:179:PHE:HZ	1:A3:344:VAL:HG13	1.73	0.53
1:A3:195:GLU:HG3	1:A3:213:THR:HB	1.89	0.53
1:A5:212:GLU:OE2	1:A5:234:PHE:HE2	1.92	0.53
1:A5:426:ILE:HD12	1:A5:426:ILE:H	1.74	0.53
1:A6:118:ARG:HG3	1:AT:447:SER:OG	2.08	0.53
1:A6:120:LEU:CD2	1:A6:387:ARG:HG3	2.38	0.53
1:A6:490:ILE:HG22	1:AG:510:LEU:HD12	1.89	0.53
1:A8:65:ILE:HG23	1:A8:456:ILE:HD12	1.89	0.53
1:A8:171:HIS:O	1:A8:172:VAL:HG23	2.07	0.53
1:AA:209:TYR:CE2	1:AA:237:THR:HG22	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:8:ASN:ND2	1:AC:11:ALA:HB2	2.23	0.53
1:AC:247:MET:HE3	1:AC:402:ALA:CB	2.38	0.53
1:AD:259:VAL:CG1	1:AD:262:LEU:HB2	2.39	0.53
1:AE:8:ASN:HB3	1:AE:11:ALA:HB3	1.90	0.53
1:AG:88:ILE:O	1:AG:92:ILE:CD1	2.54	0.53
1:AG:462:THR:O	1:AG:466:VAL:HG13	2.09	0.53
1:AI:38:ILE:HD11	1:AI:44:ASP:HB3	1.91	0.53
1:AI:89:LEU:HA	1:AI:92:ILE:HD13	1.90	0.53
1:AJ:15:HIS:ND1	1:AP:480:GLU:HB2	2.23	0.53
1:AJ:251:GLY:H	1:AJ:332:GLY:CA	2.16	0.53
1:AL:63:GLN:CD	1:AT:98:GLN:HB2	2.33	0.53
1:AL:74:MET:HE1	1:AL:142:PHE:CZ	2.43	0.53
1:AM:462:THR:O	1:AM:466:VAL:HG13	2.08	0.53
1:AO:61:LEU:HB3	1:AO:463:GLN:HB2	1.89	0.53
1:AO:88:ILE:O	1:AO:92:ILE:CD1	2.53	0.53
1:AO:511:ARG:HG3	1:AO:512:LEU:N	2.22	0.53
1:AP:172:VAL:O	1:AP:380:THR:HA	2.08	0.53
1:AS:451:GLU:HG3	1:AT:122:GLU:HB2	1.90	0.53
1:AV:8:ASN:HB3	1:AV:11:ALA:HB3	1.90	0.53
1:A1:129:THR:HG21	1:AQ:155:THR:HG23	1.90	0.53
1:A1:366:SER:HB2	1:A1:374:GLN:OE1	2.08	0.53
1:A2:352:ARG:HB3	1:A2:358:ILE:HD11	1.91	0.53
1:A2:366:SER:HB2	1:A2:374:GLN:OE1	2.08	0.53
1:A2:370:PHE:HA	1:A2:376:VAL:CG1	2.39	0.53
1:A3:88:ILE:O	1:A3:92:ILE:CD1	2.55	0.53
1:A3:179:PHE:CD2	1:A3:184:MET:HE3	2.43	0.53
1:A5:294:ARG:HH21	1:AE:415:GLY:HA2	1.74	0.53
1:A6:281:ASP:OD1	1:A6:283:ARG:HG2	2.08	0.53
1:A7:8:ASN:ND2	1:A7:11:ALA:HB2	2.24	0.53
1:A7:462:THR:O	1:A7:466:VAL:HG13	2.07	0.53
1:A8:108:SER:O	1:A8:112:LEU:HD13	2.08	0.53
1:A8:186:ALA:HB2	1:A8:334:PHE:HB2	1.90	0.53
1:A9:337:ILE:HG22	1:A9:342:HIS:ND1	2.23	0.53
1:AB:163:SER:OG	1:AB:168:LYS:HD3	2.09	0.53
1:AC:303:ILE:HG13	1:AX:234:PHE:CD2	2.44	0.53
1:AD:201:LYS:HD3	2:AD:602:P8E:O1A	2.08	0.53
1:AG:284:LEU:O	1:AG:288:ILE:HG12	2.08	0.53
1:AI:353:THR:HG23	1:AI:433:SER:CB	2.33	0.53
1:AK:92:ILE:HG23	1:AK:116:ILE:CG1	2.28	0.53
1:AK:291:VAL:HG23	1:AK:295:THR:HG23	1.89	0.53
1:AL:35:GLY:O	1:AL:476:VAL:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:212:GLU:OE1	1:AM:212:GLU:HA	2.06	0.53
1:AM:247:MET:HE3	1:AM:308:ASN:HB3	1.90	0.53
1:AN:201:LYS:HA	1:AN:208:ASP:HB2	1.90	0.53
1:AQ:161:ILE:CD1	1:AQ:445:MET:HE1	2.39	0.53
1:AR:201:LYS:HB2	1:AR:359:ILE:HD11	1.88	0.53
1:AR:291:VAL:HG23	1:AR:295:THR:HG23	1.89	0.53
1:AS:184:MET:O	1:AS:189:ALA:HB2	2.08	0.53
1:AT:203:VAL:HG21	1:AT:209:TYR:CD2	2.44	0.53
1:AV:224:ILE:CD1	1:AV:244:TYR:HB2	2.38	0.53
1:A1:8:ASN:ND2	1:A1:11:ALA:HB2	2.24	0.53
1:A1:41:ALA:CA	1:A1:48:MET:HE1	2.38	0.53
1:A2:117:GLN:HE22	1:A2:387:ARG:HD2	1.70	0.53
1:A4:249:THR:HG21	1:A4:406:GLN:OE1	2.08	0.53
1:A5:42:ALA:HB2	1:AH:449:GLN:HE21	1.73	0.53
1:A7:328:VAL:HG12	1:A7:329:PHE:HD1	1.73	0.53
1:A8:277:LYS:HB2	2:A8:609:P8E:O1B	2.07	0.53
1:A8:383:LEU:HA	1:A8:430:MET:HE2	1.89	0.53
1:A9:61:LEU:O	1:A9:65:ILE:HG13	2.08	0.53
1:A9:263:THR:CG2	1:A9:268:GLU:HG3	2.38	0.53
1:A9:271:THR:O	1:AK:357:ASP:HB2	2.08	0.53
1:AA:8:ASN:HB3	1:AA:11:ALA:HB3	1.90	0.53
1:AC:175:GLU:OE2	1:AC:358:ILE:HB	2.08	0.53
1:AC:203:VAL:HG21	1:AC:209:TYR:CD2	2.44	0.53
1:AC:448:VAL:HG22	1:AO:118:ARG:NH2	2.24	0.53
1:AD:184:MET:HE1	1:AD:345:ILE:HD11	1.90	0.53
1:AE:186:ALA:HB2	1:AE:334:PHE:HB2	1.90	0.53
1:AK:172:VAL:O	1:AK:380:THR:HA	2.08	0.53
1:AL:104:GLN:HB3	1:AL:108:SER:OG	2.08	0.53
1:AM:510:LEU:HD12	1:AW:490:ILE:CG2	2.36	0.53
1:AO:138:LEU:N	1:AO:138:LEU:HD23	2.24	0.53
1:AO:510:LEU:HD12	1:AR:490:ILE:HG22	1.91	0.53
1:AR:291:VAL:HG23	1:AR:295:THR:HG21	1.91	0.53
1:AS:433:SER:O	1:AS:437:GLN:HG3	2.09	0.53
1:AU:410:ASN:HD21	1:AU:414:ILE:CG2	2.22	0.53
1:A1:166:SER:O	1:A1:383:LEU:HB3	2.08	0.53
1:A1:475:ASP:OD1	1:AI:6:ASN:HB2	2.09	0.53
1:A2:259:VAL:HA	1:A2:324:ALA:CB	2.39	0.53
1:A5:303:ILE:HG13	1:AD:234:PHE:CE2	2.44	0.53
1:A7:42:ALA:HB2	1:AP:449:GLN:HE21	1.73	0.53
1:A7:281:ASP:OD2	1:A7:283:ARG:HB3	2.08	0.53
1:A8:70:ASP:O	1:A8:74:MET:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:259:VAL:HA	1:A8:324:ALA:CB	2.39	0.53
1:A8:451:GLU:HG2	1:AS:122:GLU:HG3	1.90	0.53
1:AC:130:THR:HB	1:AC:138:LEU:HD13	1.91	0.53
1:AC:259:VAL:HG22	1:AC:324:ALA:CB	2.38	0.53
1:AD:146:GLU:OE2	1:AD:156:THR:HG21	2.09	0.53
1:AE:264:ILE:CG2	1:AE:319:VAL:HG23	2.36	0.53
1:AE:386:VAL:HG23	1:AE:430:MET:CE	2.39	0.53
1:AF:509:VAL:HG12	1:AF:510:LEU:HD23	1.91	0.53
1:AG:485:PHE:CE2	1:AP:501:GLN:HG3	2.44	0.53
1:AH:212:GLU:OE1	1:AH:212:GLU:HA	2.07	0.53
1:AJ:108:SER:O	1:AJ:112:LEU:HD13	2.08	0.53
1:AJ:390:PHE:CE2	1:AJ:417:GLY:HA2	2.44	0.53
1:AO:422:LYS:O	1:AO:426:ILE:CD1	2.53	0.53
1:AQ:88:ILE:CD1	1:AR:454:THR:HG21	2.35	0.53
1:AS:120:LEU:CD2	1:AS:387:ARG:HG3	2.39	0.53
1:AS:259:VAL:HG13	1:AS:324:ALA:CB	2.39	0.53
1:AS:263:THR:HG22	1:AS:268:GLU:HG3	1.91	0.53
1:A1:122:GLU:C	1:A1:122:GLU:OE1	2.52	0.53
1:A1:386:VAL:CG2	1:A1:427:VAL:HG22	2.38	0.53
1:A2:296:GLY:O	1:A2:312:ILE:HD12	2.07	0.53
1:A4:98:GLN:HB2	1:AT:63:GLN:CD	2.33	0.53
1:A5:462:THR:O	1:A5:466:VAL:HG13	2.08	0.53
1:A6:179:PHE:CD1	1:A6:184:MET:HE3	2.44	0.53
1:A7:4:ARG:NH1	1:AP:472:GLN:HA	2.24	0.53
1:A7:297:VAL:CG2	1:A7:317:ILE:HG12	2.38	0.53
1:A7:357:ASP:HB2	1:AP:271:THR:O	2.09	0.53
1:A8:251:GLY:H	1:A8:332:GLY:CA	2.15	0.53
1:A9:117:GLN:HE22	1:A9:387:ARG:HD2	1.74	0.53
1:AA:187:SER:HB3	1:AA:335:ALA:HB1	1.90	0.53
1:AD:352:ARG:HH22	1:AD:356:ARG:NH2	2.07	0.53
1:AF:230:ILE:HG13	1:AF:231:ILE:N	2.23	0.53
1:AG:68:ALA:HB2	1:AG:149:ILE:CG2	2.39	0.53
1:AG:262:LEU:HD12	1:AG:263:THR:N	2.24	0.53
1:AH:249:THR:CG2	1:AH:405:ALA:HB3	2.38	0.53
1:AI:410:ASN:HD21	1:AI:414:ILE:CG2	2.22	0.53
1:AJ:89:LEU:HD23	1:AJ:92:ILE:HD13	1.88	0.53
1:AJ:218:THR:O	1:AJ:315:ARG:HD3	2.08	0.53
1:AJ:448:VAL:HG22	1:AU:118:ARG:NH2	2.24	0.53
1:AN:281:ASP:OD2	1:AN:283:ARG:HB3	2.09	0.53
1:AO:186:ALA:HB2	1:AO:334:PHE:HB2	1.90	0.53
1:AQ:410:ASN:HD21	1:AQ:414:ILE:HG22	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:184:MET:O	1:AR:189:ALA:HB2	2.08	0.53
1:AR:328:VAL:HG12	1:AR:329:PHE:HD1	1.73	0.53
1:AU:175:GLU:HG2	1:AU:378:GLU:CG	2.30	0.53
1:AU:319:VAL:HG13	1:AU:342:HIS:HD2	1.73	0.53
1:AX:263:THR:HG22	1:AX:268:GLU:HG3	1.89	0.53
1:A2:179:PHE:CZ	1:A2:344:VAL:HG13	2.43	0.53
1:A2:353:THR:HG23	1:A2:433:SER:CB	2.33	0.53
1:A2:475:ASP:OD1	1:AR:6:ASN:HB2	2.09	0.53
1:A3:259:VAL:HG22	1:A3:324:ALA:CB	2.39	0.53
1:A3:451:GLU:CA	1:AL:122:GLU:OE1	2.51	0.53
1:A4:20:GLN:C	1:A4:20:GLN:OE1	2.52	0.53
1:A4:366:SER:HB2	1:A4:374:GLN:OE1	2.09	0.53
1:A5:480:GLU:HB2	1:AE:15:HIS:ND1	2.24	0.53
1:A6:395:ALA:HB2	1:A6:414:ILE:HG23	1.89	0.53
1:A6:410:ASN:HD21	1:A6:414:ILE:HG22	1.73	0.53
1:A9:8:ASN:ND2	1:A9:11:ALA:HB2	2.23	0.53
1:AA:61:LEU:O	1:AA:65:ILE:HG13	2.09	0.53
1:AA:271:THR:O	1:AN:357:ASP:HB2	2.08	0.53
1:AB:120:LEU:CD2	1:AB:383:LEU:HG	2.36	0.53
1:AB:167:ASP:CA	1:AB:384:ARG:HB2	2.36	0.53
1:AB:211:ILE:HD11	1:AB:238:LEU:HD11	1.90	0.53
1:AB:231:ILE:HG21	1:AB:242:ALA:HB2	1.90	0.53
1:AE:74:MET:CE	1:AE:137:MET:HE1	2.38	0.53
1:AE:82:MET:HE1	1:AE:442:ARG:CA	2.39	0.53
1:AF:496:SER:HB2	1:AN:512:LEU:HD23	1.91	0.53
1:AG:112:LEU:O	1:AG:116:ILE:HG13	2.09	0.53
1:AG:211:ILE:CD1	1:AG:234:PHE:HD2	2.22	0.53
1:AH:97:VAL:HG22	1:AH:428:MET:SD	2.49	0.53
1:AI:161:ILE:HG12	1:AI:445:MET:SD	2.49	0.53
1:AJ:249:THR:CG2	1:AJ:405:ALA:HB3	2.39	0.53
1:AM:187:SER:HB3	1:AM:335:ALA:HB1	1.90	0.53
1:AT:172:VAL:O	1:AT:380:THR:HA	2.09	0.53
1:AT:328:VAL:HG12	1:AT:329:PHE:CD1	2.44	0.53
1:AV:54:LEU:HB3	1:AV:470:GLU:HB2	1.90	0.53
1:A1:167:ASP:CA	1:A1:384:ARG:HB2	2.39	0.53
1:A1:212:GLU:OE2	1:AB:305:GLY:HA3	2.08	0.53
1:A2:212:GLU:HG3	1:AV:278:ASN:CG	2.34	0.53
1:A4:157:VAL:HG11	1:A4:452:LEU:CD2	2.39	0.53
1:A5:509:VAL:HG23	1:A5:513:LEU:HD12	1.89	0.53
1:A7:175:GLU:HG2	1:A7:378:GLU:CG	2.29	0.53
1:A7:448:VAL:HG22	1:AJ:118:ARG:NH2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:174:MET:HE1	1:A8:398:ALA:HB2	1.91	0.53
1:A8:259:VAL:HG13	1:A8:324:ALA:CB	2.38	0.53
1:A9:98:GLN:HG2	1:A9:112:LEU:HD21	1.89	0.53
1:A9:136:GLN:HB3	1:A9:139:SER:OG	2.09	0.53
1:AC:179:PHE:CD1	1:AC:184:MET:HE3	2.43	0.53
1:AD:486:SER:O	1:AD:490:ILE:HG12	2.08	0.53
1:AE:297:VAL:CG2	1:AE:317:ILE:HG12	2.38	0.53
1:AE:382:ASN:ND2	1:AK:281:ASP:HB2	2.24	0.53
1:AF:462:THR:O	1:AF:466:VAL:HG13	2.08	0.53
1:AG:8:ASN:ND2	1:AG:11:ALA:HB2	2.24	0.53
1:AG:291:VAL:HG23	1:AG:295:THR:HG21	1.90	0.53
1:AL:357:ASP:HB2	1:AT:271:THR:O	2.09	0.53
1:AL:454:THR:HG21	1:AP:88:ILE:CD1	2.34	0.53
1:AM:175:GLU:HG2	1:AM:378:GLU:CG	2.30	0.53
1:AM:369:GLY:HA2	1:AM:374:GLN:NE2	2.23	0.53
1:AO:8:ASN:ND2	1:AO:11:ALA:HB2	2.24	0.53
1:AO:89:LEU:HA	1:AO:92:ILE:HD12	1.90	0.53
1:AQ:386:VAL:HG22	1:AQ:427:VAL:HG22	1.91	0.53
1:AR:302:ASP:CB	1:AR:308:ASN:HD21	2.20	0.53
1:AS:15:HIS:O	1:AS:19:VAL:HG12	2.09	0.53
1:AT:212:GLU:OE1	1:AT:212:GLU:HA	2.09	0.53
1:AT:251:GLY:H	1:AT:332:GLY:CA	2.16	0.53
1:AU:231:ILE:HG21	1:AU:242:ALA:HB2	1.91	0.53
1:AV:369:GLY:HA2	1:AV:374:GLN:NE2	2.23	0.53
1:AX:423:GLY:HA2	1:AX:426:ILE:CD1	2.38	0.53
1:A1:212:GLU:OE1	1:A1:212:GLU:HA	2.08	0.53
1:A1:247:MET:HE1	1:AI:144:ASN:ND2	2.24	0.53
1:A1:271:THR:O	1:AI:357:ASP:HB2	2.08	0.53
1:A3:462:THR:O	1:A3:466:VAL:HG13	2.08	0.53
1:A5:39:ASN:N	1:A5:39:ASN:ND2	2.57	0.53
1:A5:491:LEU:HD21	1:AE:6:ASN:OD1	2.09	0.53
1:A6:234:PHE:CE1	1:AW:303:ILE:HA	2.43	0.53
1:A7:249:THR:HG23	1:A7:405:ALA:HB3	1.91	0.53
1:A7:369:GLY:HA2	1:A7:374:GLN:NE2	2.23	0.53
1:A7:508:ASN:ND2	1:A7:512:LEU:HD12	2.24	0.53
1:AA:167:ASP:CA	1:AA:384:ARG:HB2	2.38	0.53
1:AB:328:VAL:HG12	1:AB:329:PHE:CD1	2.43	0.53
1:AC:104:GLN:HB3	1:AC:108:SER:OG	2.09	0.53
1:AC:352:ARG:HD2	1:AC:356:ARG:O	2.09	0.53
1:AC:418:VAL:HG22	1:AC:427:VAL:HG21	1.91	0.53
1:AF:89:LEU:HA	1:AF:92:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:212:GLU:OE1	1:AF:212:GLU:HA	2.08	0.53
1:AG:263:THR:CG2	1:AG:268:GLU:HG3	2.39	0.53
1:AH:120:LEU:HD21	1:AH:383:LEU:CG	2.39	0.53
1:AI:97:VAL:HG22	1:AI:428:MET:CE	2.39	0.53
1:AI:172:VAL:O	1:AI:380:THR:HA	2.08	0.53
1:AI:251:GLY:H	1:AI:332:GLY:CA	2.14	0.53
1:AK:61:LEU:O	1:AK:65:ILE:HG13	2.09	0.53
1:AK:495:GLY:O	1:AK:499:MET:HE3	2.09	0.53
1:AN:174:MET:CE	1:AN:398:ALA:HA	2.39	0.53
1:AN:174:MET:HE1	1:AN:398:ALA:HB2	1.90	0.53
1:AP:186:ALA:HB2	1:AP:334:PHE:HB2	1.91	0.53
1:AQ:192:ASN:HA	1:AQ:367:HIS:ND1	2.23	0.53
1:AW:370:PHE:HA	1:AW:376:VAL:CG1	2.38	0.53
1:AX:259:VAL:HG22	1:AX:324:ALA:CB	2.39	0.53
1:A2:303:ILE:HG13	1:AM:234:PHE:CD1	2.44	0.52
1:A2:446:GLY:HA3	1:AR:41:ALA:CB	2.38	0.52
1:A3:463:GLN:HA	1:A3:466:VAL:HG22	1.91	0.52
1:A4:305:GLY:HA3	1:AF:212:GLU:OE2	2.08	0.52
1:A6:179:PHE:HD1	1:A6:184:MET:HE3	1.73	0.52
1:A7:298:GLU:HG2	1:A7:310:HIS:HB3	1.91	0.52
1:A8:15:HIS:O	1:A8:19:VAL:HG12	2.08	0.52
1:A8:249:THR:CG2	1:A8:405:ALA:HB3	2.39	0.52
1:A9:233:ARG:HB2	1:AN:139:SER:OG	2.08	0.52
1:A9:296:GLY:O	1:A9:312:ILE:HD12	2.09	0.52
1:A9:366:SER:HB2	1:A9:374:GLN:OE1	2.10	0.52
1:AA:259:VAL:HG13	1:AA:324:ALA:CB	2.38	0.52
1:AC:8:ASN:HB3	1:AC:11:ALA:HB3	1.90	0.52
1:AC:462:THR:O	1:AC:466:VAL:HG13	2.08	0.52
1:AD:175:GLU:HG2	1:AD:378:GLU:CG	2.31	0.52
1:AE:201:LYS:HD3	2:AE:602:P8E:O1A	2.09	0.52
1:AI:120:LEU:O	1:AI:120:LEU:HD23	2.09	0.52
1:AI:263:THR:HG22	1:AI:268:GLU:HG3	1.91	0.52
1:AI:277:LYS:HB2	2:AI:609:P8E:O1B	2.10	0.52
1:AK:146:GLU:HB2	1:AK:158:LYS:HD2	1.92	0.52
1:AK:462:THR:O	1:AK:466:VAL:HG13	2.08	0.52
1:AL:370:PHE:HA	1:AL:376:VAL:CG1	2.38	0.52
1:AQ:133:ASN:ND2	1:AV:105:THR:HG23	2.24	0.52
1:AQ:179:PHE:CZ	1:AQ:344:VAL:HG13	2.43	0.52
1:AQ:214:VAL:HG11	1:AQ:227:LEU:HB2	1.91	0.52
1:AR:328:VAL:HG12	1:AR:329:PHE:CD1	2.44	0.52
1:AS:167:ASP:CA	1:AS:384:ARG:HB2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:192:ASN:HA	1:AS:367:HIS:CE1	2.44	0.52
1:AS:249:THR:HG23	1:AS:405:ALA:HB3	1.91	0.52
1:AT:61:LEU:O	1:AT:65:ILE:HG13	2.09	0.52
1:AT:296:GLY:O	1:AT:312:ILE:HD12	2.08	0.52
1:AV:363:VAL:HG22	1:AV:364:ASN:OD1	2.09	0.52
1:AW:291:VAL:HG23	1:AW:295:THR:HG23	1.90	0.52
1:AX:196:VAL:HG22	1:AX:216:ILE:HD11	1.91	0.52
1:A1:201:LYS:HB2	1:A1:359:ILE:HG13	1.90	0.52
1:A1:462:THR:O	1:A1:466:VAL:HG13	2.08	0.52
1:A2:163:SER:OG	1:A2:168:LYS:HD3	2.09	0.52
1:A5:251:GLY:H	1:A5:332:GLY:CA	2.16	0.52
1:A6:65:ILE:HG12	1:A6:459:ILE:HD12	1.91	0.52
1:A6:179:PHE:CZ	1:A6:344:VAL:HG13	2.42	0.52
1:A6:259:VAL:HG13	1:A6:324:ALA:CB	2.38	0.52
1:A7:319:VAL:H	1:A7:342:HIS:CD2	2.27	0.52
1:A9:353:THR:HG23	1:A9:433:SER:CB	2.34	0.52
1:A9:442:ARG:HD3	1:AK:48:MET:SD	2.50	0.52
1:AA:234:PHE:O	1:AA:238:LEU:HD12	2.09	0.52
1:AB:249:THR:CG2	1:AB:405:ALA:HB3	2.39	0.52
1:AC:154:ASN:H	1:AR:425:MET:CE	2.22	0.52
1:AC:204:ASN:HD21	1:AC:207:ASN:HB2	1.73	0.52
1:AF:231:ILE:HG21	1:AF:242:ALA:HB2	1.91	0.52
1:AG:356:ARG:HD2	1:AW:269:ILE:O	2.08	0.52
1:AG:357:ASP:HB2	1:AW:271:THR:O	2.08	0.52
1:AJ:451:GLU:HG3	1:AU:122:GLU:CB	2.36	0.52
1:AM:291:VAL:HG23	1:AM:295:THR:HG23	1.91	0.52
1:AO:246:VAL:C	1:AO:247:MET:HG2	2.34	0.52
1:AP:201:LYS:HB2	1:AP:359:ILE:CG1	2.39	0.52
1:AP:218:THR:O	1:AP:315:ARG:HD3	2.09	0.52
1:AQ:161:ILE:CG1	1:AQ:445:MET:HE1	2.40	0.52
1:AR:46:SER:HB2	1:AV:112:LEU:CD1	2.39	0.52
1:AR:149:ILE:HD12	1:AR:455:THR:HG21	1.92	0.52
1:AS:68:ALA:O	1:AS:72:ILE:HG13	2.09	0.52
1:AT:35:GLY:O	1:AT:476:VAL:HG12	2.10	0.52
1:AU:511:ARG:HH22	1:AU:512:LEU:HD13	1.74	0.52
1:AX:120:LEU:HD23	1:AX:387:ARG:HD3	1.91	0.52
1:A2:120:LEU:HD21	1:A2:383:LEU:CG	2.30	0.52
1:A5:116:ILE:CD1	1:A5:418:VAL:HG21	2.39	0.52
1:A5:186:ALA:HB2	1:A5:334:PHE:HB2	1.89	0.52
1:A5:249:THR:CG2	1:A5:405:ALA:HB3	2.39	0.52
1:A5:251:GLY:H	1:A5:333:ASN:H	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:249:THR:CG2	1:A6:405:ALA:HB3	2.39	0.52
1:A6:271:THR:O	1:AP:357:ASP:HB2	2.08	0.52
1:A7:189:ALA:HB3	1:A7:343:ALA:HB3	1.92	0.52
1:A7:251:GLY:H	1:A7:333:ASN:H	1.55	0.52
1:A8:81:ALA:CB	1:A8:138:LEU:HD11	2.40	0.52
1:AA:8:ASN:ND2	1:AA:11:ALA:HB2	2.24	0.52
1:AB:8:ASN:ND2	1:AB:11:ALA:HB2	2.24	0.52
1:AB:201:LYS:HB2	1:AB:359:ILE:HG13	1.89	0.52
1:AC:129:THR:HG21	1:AX:155:THR:HG23	1.90	0.52
1:AE:224:ILE:HG13	1:AE:244:TYR:HB2	1.90	0.52
1:AF:249:THR:CG2	1:AF:405:ALA:HB3	2.38	0.52
1:AF:410:ASN:HD21	1:AF:414:ILE:CG2	2.20	0.52
1:AG:60:ASN:HD21	1:AW:93:LYS:HE2	1.74	0.52
1:AG:263:THR:HG22	1:AG:268:GLU:HG3	1.90	0.52
1:AG:382:ASN:O	1:AG:430:MET:HE1	2.09	0.52
1:AG:501:GLN:HG3	1:AM:485:PHE:CE2	2.44	0.52
1:AH:262:LEU:HD12	1:AH:263:THR:N	2.24	0.52
1:AH:463:GLN:HA	1:AH:466:VAL:HG22	1.90	0.52
1:AI:201:LYS:HA	1:AI:208:ASP:HB2	1.91	0.52
1:AK:97:VAL:CG2	1:AK:428:MET:HE2	2.36	0.52
1:AL:218:THR:O	1:AL:315:ARG:HD3	2.08	0.52
1:AN:262:LEU:HD12	1:AN:263:THR:N	2.24	0.52
1:AN:463:GLN:HA	1:AN:466:VAL:HG22	1.89	0.52
1:AO:224:ILE:CD1	1:AO:346:GLY:HA3	2.40	0.52
1:AP:445:MET:HE2	1:AP:445:MET:N	2.25	0.52
1:AQ:88:ILE:O	1:AQ:92:ILE:CD1	2.53	0.52
1:AQ:161:ILE:HG12	1:AQ:445:MET:HE1	1.91	0.52
1:AQ:201:LYS:HB2	1:AQ:359:ILE:HG13	1.91	0.52
1:AS:462:THR:O	1:AS:466:VAL:HG13	2.08	0.52
1:AT:328:VAL:HG12	1:AT:329:PHE:HD1	1.73	0.52
1:AU:251:GLY:H	1:AU:332:GLY:CA	2.15	0.52
1:AU:511:ARG:NH1	1:AU:512:LEU:HD12	2.21	0.52
1:AW:175:GLU:HG2	1:AW:378:GLU:CG	2.31	0.52
1:A1:41:ALA:N	1:A1:48:MET:HE1	2.24	0.52
1:A2:212:GLU:OE1	1:A2:212:GLU:HA	2.08	0.52
1:A3:319:VAL:H	1:A3:342:HIS:CE1	2.27	0.52
1:A3:445:MET:HE2	1:A3:445:MET:N	2.25	0.52
1:A3:499:MET:HE1	1:A8:479:ALA:HB1	1.91	0.52
1:A7:187:SER:HB3	1:A7:335:ALA:HB1	1.89	0.52
1:A8:42:ALA:HB2	1:AN:449:GLN:HE21	1.73	0.52
1:A8:89:LEU:HA	1:A8:92:ILE:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:218:THR:O	1:A8:315:ARG:HD3	2.10	0.52
1:A8:454:THR:HG21	1:AS:88:ILE:CD1	2.33	0.52
1:AA:179:PHE:CZ	1:AA:344:VAL:HG13	2.43	0.52
1:AC:83:ASP:HB2	1:AC:442:ARG:HH21	1.73	0.52
1:AD:175:GLU:OE2	1:AD:358:ILE:HB	2.09	0.52
1:AD:342:HIS:NE2	1:AD:344:VAL:HG23	2.24	0.52
1:AF:271:THR:O	1:AS:357:ASP:HB2	2.09	0.52
1:AF:369:GLY:HA2	1:AF:374:GLN:NE2	2.24	0.52
1:AG:449:GLN:HE21	1:AJ:42:ALA:HB2	1.73	0.52
1:AH:38:ILE:CG2	1:AH:48:MET:HE3	2.39	0.52
1:AH:211:ILE:HD11	1:AH:238:LEU:CD1	2.34	0.52
1:AH:342:HIS:ND1	1:AH:343:ALA:N	2.57	0.52
1:AJ:225:GLY:HA2	1:AJ:244:TYR:CD1	2.45	0.52
1:AM:192:ASN:HA	1:AM:367:HIS:ND1	2.23	0.52
1:AM:293:ASP:C	1:AM:293:ASP:OD1	2.53	0.52
1:AN:82:MET:HG3	1:AN:138:LEU:CD1	2.39	0.52
1:AN:212:GLU:OE2	1:AN:234:PHE:HE1	1.92	0.52
1:AN:263:THR:CG2	1:AN:268:GLU:HG3	2.40	0.52
1:AQ:8:ASN:ND2	1:AQ:11:ALA:HB2	2.24	0.52
1:AQ:42:ALA:HB2	1:AV:449:GLN:HE21	1.73	0.52
1:AU:88:ILE:O	1:AU:92:ILE:CD1	2.54	0.52
1:AU:259:VAL:HA	1:AU:324:ALA:CB	2.40	0.52
1:AV:88:ILE:HG23	1:AV:119:LEU:HD22	1.91	0.52
1:AX:149:ILE:CD1	1:AX:455:THR:HG21	2.34	0.52
1:AX:421:LEU:HD11	1:AX:425:MET:HE2	1.91	0.52
1:A1:122:GLU:OE2	1:A1:126:ILE:HD11	2.10	0.52
1:A2:462:THR:O	1:A2:466:VAL:HG13	2.08	0.52
1:A5:68:ALA:HB3	1:A5:456:ILE:CD1	2.40	0.52
1:A5:357:ASP:HB2	1:AH:271:THR:O	2.09	0.52
1:A6:8:ASN:ND2	1:A6:11:ALA:HB2	2.25	0.52
1:A7:319:VAL:O	1:A7:342:HIS:HD2	1.91	0.52
1:AA:421:LEU:HD12	1:AA:421:LEU:O	2.10	0.52
1:AB:281:ASP:OD1	1:AB:283:ARG:HG2	2.10	0.52
1:AC:42:ALA:HB2	1:AR:449:GLN:HE21	1.75	0.52
1:AF:93:LYS:CG	1:AS:60:ASN:HD21	2.21	0.52
1:AF:104:GLN:HB3	1:AF:108:SER:OG	2.08	0.52
1:AG:61:LEU:HB3	1:AG:463:GLN:HB2	1.90	0.52
1:AH:284:LEU:O	1:AH:288:ILE:HG12	2.10	0.52
1:AI:167:ASP:HB3	1:AI:384:ARG:CZ	2.39	0.52
1:AI:423:GLY:O	1:AI:427:VAL:HG23	2.09	0.52
1:AJ:61:LEU:O	1:AJ:65:ILE:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:184:MET:O	1:AJ:189:ALA:HB2	2.10	0.52
1:AJ:445:MET:HE2	1:AJ:445:MET:CA	2.31	0.52
1:AK:192:ASN:HA	1:AK:367:HIS:CE1	2.45	0.52
1:AL:259:VAL:HA	1:AL:324:ALA:CB	2.39	0.52
1:AM:44:ASP:C	1:AM:44:ASP:OD1	2.53	0.52
1:AM:271:THR:O	1:AU:357:ASP:HB2	2.09	0.52
1:AM:410:ASN:HD21	1:AM:414:ILE:HG22	1.74	0.52
1:AO:171:HIS:O	1:AO:172:VAL:HG23	2.09	0.52
1:AO:189:ALA:HB3	1:AO:343:ALA:HB3	1.91	0.52
1:AO:445:MET:HE2	1:AO:445:MET:N	2.25	0.52
1:AP:421:LEU:HD11	1:AP:425:MET:HE2	1.92	0.52
1:AS:251:GLY:H	1:AS:332:GLY:CA	2.13	0.52
1:AS:260:ARG:C	1:AS:261:GLU:HG3	2.34	0.52
1:AT:131:SER:HB3	1:AT:136:GLN:NE2	2.24	0.52
1:AT:462:THR:O	1:AT:466:VAL:HG13	2.09	0.52
1:AU:271:THR:O	1:AX:357:ASP:HB2	2.09	0.52
1:AU:421:LEU:HD21	1:AX:146:GLU:CG	2.39	0.52
1:AV:421:LEU:HD12	1:AV:421:LEU:O	2.10	0.52
1:AX:175:GLU:HA	1:AX:377:ALA:O	2.10	0.52
1:A2:122:GLU:CG	1:AM:451:GLU:HG3	2.37	0.52
1:A3:4:ARG:HG2	1:AS:475:ASP:HB2	1.91	0.52
1:A3:153:SER:HB3	1:AS:429:ASP:OD1	2.10	0.52
1:A5:395:ALA:CB	1:A5:414:ILE:HG23	2.40	0.52
1:A6:262:LEU:HD12	1:A6:263:THR:N	2.24	0.52
1:A7:44:ASP:C	1:A7:44:ASP:OD1	2.53	0.52
1:A7:204:ASN:HD21	1:A7:207:ASN:HB3	1.75	0.52
1:A8:88:ILE:CD1	1:AE:454:THR:HG21	2.38	0.52
1:AC:244:TYR:CD1	1:AC:244:TYR:C	2.88	0.52
1:AD:88:ILE:O	1:AD:92:ILE:CD1	2.54	0.52
1:AF:187:SER:HB3	1:AF:335:ALA:HB1	1.90	0.52
1:AF:328:VAL:HG12	1:AF:329:PHE:HD1	1.74	0.52
1:AK:184:MET:O	1:AK:189:ALA:HB2	2.10	0.52
1:AK:212:GLU:OE2	1:AK:234:PHE:HE2	1.93	0.52
1:AM:61:LEU:O	1:AM:65:ILE:HG13	2.10	0.52
1:AN:8:ASN:ND2	1:AN:11:ALA:HB2	2.25	0.52
1:AO:201:LYS:HB2	1:AO:359:ILE:CD1	2.40	0.52
1:AQ:302:ASP:HB3	1:AQ:308:ASN:HD21	1.73	0.52
1:AR:463:GLN:HA	1:AR:466:VAL:HG22	1.90	0.52
1:AS:105:THR:HG23	1:AS:107:GLU:OE2	2.09	0.52
1:AV:187:SER:HB3	1:AV:335:ALA:HB1	1.92	0.52
1:AW:75:VAL:CG1	1:AW:445:MET:HG2	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:463:GLN:HA	1:AW:466:VAL:HG22	1.91	0.52
1:AX:263:THR:HG21	1:AX:268:GLU:HG3	1.90	0.52
1:A1:118:ARG:NH2	1:AQ:448:VAL:HG22	2.24	0.52
1:A2:8:ASN:HB3	1:A2:11:ALA:HB3	1.91	0.52
1:A5:302:ASP:HB3	1:A5:308:ASN:HD21	1.74	0.52
1:A6:302:ASP:HB3	1:A6:308:ASN:ND2	2.25	0.52
1:A7:120:LEU:CD2	1:A7:387:ARG:HD3	2.40	0.52
1:A9:161:ILE:CG2	1:A9:445:MET:HE1	2.40	0.52
1:AA:174:MET:HE3	1:AA:398:ALA:HA	1.92	0.52
1:AB:172:VAL:O	1:AB:380:THR:HA	2.09	0.52
1:AC:144:ASN:HD21	1:AR:247:MET:HE1	1.75	0.52
1:AC:249:THR:CG2	1:AC:405:ALA:HB3	2.40	0.52
1:AC:455:THR:O	1:AC:459:ILE:HG23	2.10	0.52
1:AD:48:MET:SD	1:AI:442:ARG:HD3	2.50	0.52
1:AG:249:THR:CG2	1:AG:405:ALA:HB3	2.40	0.52
1:AG:302:ASP:HB3	1:AG:308:ASN:ND2	2.25	0.52
1:AH:30:GLU:OE1	1:AH:39:ASN:ND2	2.43	0.52
1:AH:471:SER:HB2	1:AH:475:ASP:OD2	2.10	0.52
1:AJ:84:GLU:OE2	1:AJ:84:GLU:HA	2.09	0.52
1:AK:463:GLN:HA	1:AK:466:VAL:HG22	1.90	0.52
1:AM:68:ALA:HB2	1:AM:149:ILE:HG22	1.92	0.52
1:AM:263:THR:CG2	1:AM:268:GLU:HG3	2.39	0.52
1:AM:291:VAL:HG23	1:AM:295:THR:HG21	1.90	0.52
1:AO:71:ALA:O	1:AO:75:VAL:HG23	2.10	0.52
1:AO:171:HIS:CD2	1:AO:382:ASN:HB3	2.44	0.52
1:AO:225:GLY:HA2	1:AO:244:TYR:CD1	2.45	0.52
1:AQ:5:ILE:HG21	1:AV:478:PHE:HE2	1.75	0.52
1:AR:172:VAL:O	1:AR:380:THR:HA	2.09	0.52
1:AR:173:ARG:HD2	1:AR:357:ASP:HA	1.92	0.52
1:AR:370:PHE:HA	1:AR:376:VAL:CG1	2.39	0.52
1:AS:512:LEU:HD22	1:AT:496:SER:OG	2.09	0.52
1:AT:8:ASN:ND2	1:AT:11:ALA:HB2	2.24	0.52
1:AU:174:MET:HE1	1:AU:398:ALA:HB2	1.92	0.52
1:AU:353:THR:HG23	1:AU:433:SER:CB	2.36	0.52
1:AV:8:ASN:ND2	1:AV:11:ALA:HB2	2.24	0.52
1:AV:462:THR:O	1:AV:466:VAL:HG13	2.09	0.52
1:A1:35:GLY:O	1:A1:476:VAL:HG12	2.10	0.52
1:A1:112:LEU:CD1	1:AO:46:SER:HB2	2.40	0.52
1:A2:75:VAL:HG13	1:A2:445:MET:CG	2.33	0.52
1:A3:42:ALA:HB2	1:AS:449:GLN:HE21	1.73	0.52
1:A4:167:ASP:HA	1:A4:384:ARG:CB	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:303:ILE:HA	1:AE:234:PHE:CZ	2.44	0.52
1:A9:167:ASP:HB3	1:A9:384:ARG:CZ	2.39	0.52
1:AC:61:LEU:HD23	1:AC:151:ALA:HB2	1.92	0.52
1:AD:175:GLU:HA	1:AD:377:ALA:O	2.10	0.52
1:AD:410:ASN:HD21	1:AD:414:ILE:CG2	2.23	0.52
1:AF:471:SER:O	1:AF:475:ASP:HB2	2.10	0.52
1:AF:490:ILE:HG22	1:AT:510:LEU:HD12	1.91	0.52
1:AI:174:MET:HE1	1:AI:398:ALA:HB2	1.90	0.52
1:AK:448:VAL:HG22	1:AN:118:ARG:NH2	2.25	0.52
1:AK:511:ARG:HH12	1:AK:512:LEU:CD1	2.22	0.52
1:AM:15:HIS:HA	1:AM:499:MET:CE	2.40	0.52
1:AM:93:LYS:HE2	1:AU:60:ASN:HD21	1.74	0.52
1:AM:174:MET:CE	1:AM:398:ALA:HA	2.40	0.52
1:AQ:370:PHE:HA	1:AQ:376:VAL:CG1	2.39	0.52
1:AR:89:LEU:HD23	1:AR:92:ILE:HD13	1.92	0.52
1:AR:263:THR:HG22	1:AR:268:GLU:HG3	1.90	0.52
1:AR:305:GLY:HA3	1:AU:212:GLU:HG3	1.91	0.52
1:AS:458:ASN:HD22	1:AT:126:ILE:HD13	1.74	0.52
1:AU:146:GLU:HB2	1:AU:158:LYS:HD3	1.92	0.52
1:AW:8:ASN:ND2	1:AW:11:ALA:HB2	2.25	0.52
1:AX:259:VAL:HG11	1:AX:262:LEU:HB2	1.90	0.52
1:A2:44:ASP:C	1:A2:44:ASP:OD1	2.52	0.52
1:A2:122:GLU:HB2	1:AM:451:GLU:HG3	1.92	0.52
1:A2:303:ILE:HG13	1:AM:234:PHE:CE1	2.45	0.52
1:A2:480:GLU:HB2	1:AQ:15:HIS:CD2	2.45	0.52
1:A6:201:LYS:HA	1:A6:208:ASP:HB2	1.92	0.52
1:A7:179:PHE:HD1	1:A7:184:MET:HE2	1.75	0.52
1:A7:186:ALA:HB2	1:A7:334:PHE:HB2	1.92	0.52
1:A8:262:LEU:HD11	1:A8:319:VAL:HG22	1.91	0.52
1:A9:281:ASP:HB2	1:AK:382:ASN:ND2	2.25	0.52
1:A9:490:ILE:CG2	1:AN:510:LEU:HD12	2.40	0.52
1:AA:167:ASP:HA	1:AA:384:ARG:CB	2.37	0.52
1:AA:263:THR:CG2	1:AA:268:GLU:HG3	2.39	0.52
1:AA:462:THR:O	1:AA:466:VAL:HG13	2.09	0.52
1:AC:212:GLU:HG3	1:AO:305:GLY:HA3	1.92	0.52
1:AD:370:PHE:HA	1:AD:376:VAL:CG1	2.40	0.52
1:AE:390:PHE:CE2	1:AE:417:GLY:HA2	2.44	0.52
1:AF:105:THR:HG23	1:AS:133:ASN:ND2	2.25	0.52
1:AH:122:GLU:OE2	1:AI:454:THR:HB	2.10	0.52
1:AI:15:HIS:O	1:AI:19:VAL:HG12	2.10	0.52
1:AI:118:ARG:NH2	1:AO:448:VAL:HG22	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:203:VAL:HG11	1:AI:238:LEU:CD2	2.40	0.52
1:AJ:68:ALA:HB3	1:AJ:456:ILE:CD1	2.17	0.52
1:AK:277:LYS:HB2	2:AK:609:P8E:O1B	2.10	0.52
1:AM:249:THR:CG2	1:AM:405:ALA:HB3	2.40	0.52
1:AM:491:LEU:HD11	1:AR:6:ASN:OD1	2.10	0.52
1:AO:192:ASN:HA	1:AO:367:HIS:CE1	2.45	0.52
1:AP:8:ASN:ND2	1:AP:11:ALA:HB2	2.24	0.52
1:AP:277:LYS:HB2	2:AP:609:P8E:O1B	2.10	0.52
1:AV:174:MET:HE1	1:AV:398:ALA:CB	2.40	0.52
1:AW:8:ASN:HB3	1:AW:11:ALA:HB3	1.92	0.52
1:AW:337:ILE:HG22	1:AW:342:HIS:CG	2.45	0.52
1:AX:65:ILE:HG23	1:AX:456:ILE:HD12	1.91	0.52
1:A2:88:ILE:O	1:A2:92:ILE:CD1	2.55	0.52
1:A2:201:LYS:HB2	1:A2:359:ILE:HG13	1.92	0.52
1:A3:357:ASP:HB2	1:AS:271:THR:O	2.10	0.52
1:A5:234:PHE:CD2	1:AK:303:ILE:HD12	2.45	0.52
1:A6:118:ARG:NH2	1:AT:448:VAL:HG22	2.25	0.52
1:A6:234:PHE:CZ	1:AW:303:ILE:HD12	2.44	0.52
1:A6:370:PHE:HA	1:A6:376:VAL:CG1	2.40	0.52
1:A6:462:THR:O	1:A6:466:VAL:HG13	2.09	0.52
1:A7:4:ARG:HH12	1:AP:472:GLN:HG2	1.74	0.52
1:A7:172:VAL:O	1:A7:380:THR:HA	2.10	0.52
1:A7:247:MET:HE3	1:A7:402:ALA:CB	2.39	0.52
1:A9:512:LEU:HD23	1:AA:496:SER:HB2	1.90	0.52
1:AA:179:PHE:CD1	1:AA:184:MET:HE2	2.45	0.52
1:AB:167:ASP:HA	1:AB:384:ARG:CB	2.38	0.52
1:AB:263:THR:HG21	1:AB:268:GLU:HG3	1.91	0.52
1:AC:138:LEU:HD12	1:AC:138:LEU:N	2.24	0.52
1:AC:186:ALA:HB2	1:AC:334:PHE:HB2	1.90	0.52
1:AC:502:ALA:O	1:AC:505:VAL:HG22	2.10	0.52
1:AD:463:GLN:HA	1:AD:466:VAL:HG22	1.91	0.52
1:AE:201:LYS:HA	1:AE:208:ASP:HB2	1.92	0.52
1:AE:337:ILE:HG22	1:AE:342:HIS:CG	2.45	0.52
1:AF:286:ASN:HD21	1:AS:437:GLN:CD	2.16	0.52
1:AH:328:VAL:HG12	1:AH:329:PHE:HD1	1.75	0.52
1:AJ:510:LEU:HD12	1:AP:490:ILE:HG23	1.91	0.52
1:AK:363:VAL:HG22	1:AK:364:ASN:OD1	2.10	0.52
1:AL:263:THR:HG22	1:AL:268:GLU:HG3	1.92	0.52
1:AL:463:GLN:HA	1:AL:466:VAL:HG22	1.92	0.52
1:AN:131:SER:HB3	1:AN:136:GLN:NE2	2.24	0.52
1:AO:201:LYS:HD3	2:AO:602:P8E:O1A	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:249:THR:CG2	1:AO:405:ALA:HB3	2.40	0.52
1:AQ:118:ARG:NH2	1:AR:448:VAL:HG22	2.24	0.52
1:AQ:175:GLU:HG2	1:AQ:378:GLU:CG	2.31	0.52
1:AQ:305:GLY:HA3	1:AR:212:GLU:OE2	2.10	0.52
1:AS:370:PHE:HA	1:AS:376:VAL:CG1	2.40	0.52
1:AW:366:SER:HB2	1:AW:374:GLN:OE1	2.10	0.52
1:AX:463:GLN:HA	1:AX:466:VAL:HG22	1.91	0.52
1:A1:118:ARG:HG3	1:AQ:447:SER:OG	2.10	0.51
1:A3:348:LEU:C	1:A3:348:LEU:HD23	2.34	0.51
1:A4:369:GLY:HA2	1:A4:374:GLN:NE2	2.25	0.51
1:A5:353:THR:HG23	1:A5:433:SER:CB	2.35	0.51
1:A6:65:ILE:HG13	1:A6:459:ILE:HD12	1.92	0.51
1:A8:167:ASP:CA	1:A8:384:ARG:HB2	2.40	0.51
1:A9:352:ARG:HB3	1:A9:358:ILE:HD11	1.91	0.51
1:AB:82:MET:HE2	1:AB:138:LEU:HD22	1.92	0.51
1:AB:167:ASP:HB3	1:AB:384:ARG:CZ	2.40	0.51
1:AE:251:GLY:H	1:AE:333:ASN:H	1.58	0.51
1:AG:74:MET:HE3	1:AG:137:MET:SD	2.50	0.51
1:AH:118:ARG:NH2	1:AI:448:VAL:HG22	2.25	0.51
1:AH:490:ILE:CG2	1:AK:510:LEU:HD12	2.40	0.51
1:AI:179:PHE:CD1	1:AI:184:MET:HE2	2.45	0.51
1:AL:226:ALA:O	1:AL:230:ILE:HG23	2.10	0.51
1:AM:442:ARG:HB3	1:AU:48:MET:HE1	1.92	0.51
1:AN:172:VAL:O	1:AN:380:THR:HA	2.09	0.51
1:AP:370:PHE:HA	1:AP:376:VAL:CG1	2.40	0.51
1:AP:410:ASN:HD21	1:AP:414:ILE:CG2	2.23	0.51
1:AS:8:ASN:ND2	1:AS:11:ALA:HB2	2.25	0.51
1:AS:68:ALA:HB3	1:AS:456:ILE:CD1	2.40	0.51
1:AS:353:THR:HG23	1:AS:433:SER:CB	2.32	0.51
1:AT:231:ILE:HG21	1:AT:242:ALA:HB2	1.92	0.51
1:AT:284:LEU:O	1:AT:288:ILE:HG12	2.10	0.51
1:AT:291:VAL:HG23	1:AT:295:THR:HG23	1.92	0.51
1:AU:99:ALA:HB2	1:AU:112:LEU:CD2	2.28	0.51
1:AU:249:THR:HG23	1:AU:405:ALA:HB3	1.93	0.51
1:AW:277:LYS:HB2	2:AW:609:P8E:O1B	2.10	0.51
1:A1:291:VAL:HG23	1:A1:295:THR:HG23	1.92	0.51
1:A6:263:THR:HG22	1:A6:268:GLU:HG3	1.91	0.51
1:A8:328:VAL:HG12	1:A8:329:PHE:HD1	1.74	0.51
1:A9:291:VAL:HG23	1:A9:295:THR:HG23	1.92	0.51
1:AA:172:VAL:HG12	1:AA:174:MET:HG3	1.92	0.51
1:AB:112:LEU:CD1	1:AI:46:SER:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:234:PHE:O	1:AE:238:LEU:HG	2.10	0.51
1:AF:35:GLY:O	1:AF:476:VAL:HG12	2.11	0.51
1:AF:122:GLU:HG3	1:AN:451:GLU:CG	2.40	0.51
1:AG:118:ARG:HG3	1:AP:447:SER:OG	2.10	0.51
1:AI:8:ASN:ND2	1:AI:11:ALA:HB2	2.25	0.51
1:AI:192:ASN:HA	1:AI:367:HIS:CE1	2.45	0.51
1:AI:291:VAL:HG23	1:AI:295:THR:HG21	1.93	0.51
1:AJ:216:ILE:HD13	1:AJ:223:GLY:CA	2.40	0.51
1:AM:234:PHE:HB3	1:AM:238:LEU:CD1	2.39	0.51
1:AO:511:ARG:NH1	1:AO:512:LEU:HB2	2.25	0.51
1:AQ:41:ALA:HB3	1:AV:446:GLY:HA3	1.92	0.51
1:AT:183:GLY:O	1:AT:188:ALA:HB3	2.09	0.51
1:AW:39:ASN:N	1:AW:39:ASN:ND2	2.58	0.51
1:AX:4:ARG:HG2	1:AX:4:ARG:HH11	1.74	0.51
1:AX:218:THR:O	1:AX:315:ARG:HD3	2.09	0.51
1:A1:54:LEU:HB3	1:A1:470:GLU:HB2	1.92	0.51
1:A1:293:ASP:OD2	1:AH:110:ARG:HD3	2.10	0.51
1:A2:105:THR:HG21	1:AR:133:ASN:O	2.10	0.51
1:A2:480:GLU:HB2	1:AQ:15:HIS:NE2	2.25	0.51
1:A3:175:GLU:HG2	1:A3:378:GLU:CG	2.29	0.51
1:A3:212:GLU:OE2	1:AL:305:GLY:HA3	2.09	0.51
1:A3:264:ILE:HD11	1:A3:295:THR:CG2	2.40	0.51
1:A4:186:ALA:HB2	1:A4:334:PHE:HB2	1.93	0.51
1:A4:209:TYR:CE1	1:A4:237:THR:HG22	2.45	0.51
1:A4:395:ALA:HB2	1:A4:414:ILE:HG23	1.92	0.51
1:A5:454:THR:HB	1:AK:122:GLU:OE1	2.10	0.51
1:A6:75:VAL:HG11	1:A6:449:GLN:HB2	1.93	0.51
1:A7:179:PHE:HZ	1:A7:344:VAL:HG13	1.75	0.51
1:A7:451:GLU:HG3	1:AJ:122:GLU:CG	2.39	0.51
1:A8:61:LEU:O	1:A8:65:ILE:HG13	2.10	0.51
1:A8:184:MET:HE1	1:A8:345:ILE:HD11	1.92	0.51
1:A9:249:THR:CG2	1:A9:405:ALA:HB3	2.40	0.51
1:AA:149:ILE:HD13	1:AA:157:VAL:HG12	1.91	0.51
1:AD:251:GLY:H	1:AD:332:GLY:CA	2.17	0.51
1:AD:337:ILE:HG22	1:AD:342:HIS:HB2	1.93	0.51
1:AF:161:ILE:HG23	1:AF:445:MET:HE1	1.92	0.51
1:AF:251:GLY:H	1:AF:332:GLY:CA	2.15	0.51
1:AI:122:GLU:OE1	1:AO:454:THR:HB	2.10	0.51
1:AJ:382:ASN:O	1:AJ:430:MET:HE1	2.11	0.51
1:AJ:511:ARG:NH2	1:AJ:512:LEU:HD13	2.26	0.51
1:AK:99:ALA:HB2	1:AK:112:LEU:CD2	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:251:GLY:H	1:AL:333:ASN:H	1.57	0.51
1:AM:174:MET:HE1	1:AM:398:ALA:CB	2.40	0.51
1:AM:179:PHE:CZ	1:AM:344:VAL:HG13	2.43	0.51
1:AM:284:LEU:O	1:AM:288:ILE:HG12	2.11	0.51
1:AO:61:LEU:O	1:AO:65:ILE:HG13	2.10	0.51
1:AQ:421:LEU:HD12	1:AQ:421:LEU:O	2.10	0.51
1:AT:20:GLN:C	1:AT:20:GLN:OE1	2.52	0.51
1:AV:231:ILE:HG21	1:AV:242:ALA:HB2	1.92	0.51
1:AX:281:ASP:OD2	1:AX:283:ARG:HB3	2.11	0.51
1:A1:179:PHE:CZ	1:A1:344:VAL:HG13	2.44	0.51
1:A5:206:VAL:HG11	1:AH:294:ARG:NH2	2.25	0.51
1:A6:384:ARG:HD2	1:A6:387:ARG:NH2	2.26	0.51
1:A8:291:VAL:HG23	1:A8:295:THR:HG23	1.91	0.51
1:A8:357:ASP:HB2	1:AN:271:THR:O	2.11	0.51
1:A9:454:THR:HG21	1:AA:88:ILE:CD1	2.38	0.51
1:AA:262:LEU:HD12	1:AA:263:THR:N	2.25	0.51
1:AB:54:LEU:HB3	1:AB:470:GLU:HB2	1.91	0.51
1:AB:84:GLU:OE1	1:AB:84:GLU:HA	2.09	0.51
1:AB:209:TYR:CE2	1:AB:237:THR:HG22	2.45	0.51
1:AD:61:LEU:O	1:AD:65:ILE:HG13	2.10	0.51
1:AD:251:GLY:H	1:AD:333:ASN:H	1.59	0.51
1:AF:93:LYS:HE2	1:AS:60:ASN:HD21	1.74	0.51
1:AF:161:ILE:CG1	1:AF:445:MET:HE1	2.40	0.51
1:AG:126:ILE:HG23	1:AP:458:ASN:ND2	2.25	0.51
1:AG:445:MET:HA	1:AG:445:MET:CE	2.35	0.51
1:AI:186:ALA:HB3	1:AI:334:PHE:O	2.10	0.51
1:AI:201:LYS:HD3	2:AI:602:P8E:O1A	2.10	0.51
1:AJ:6:ASN:OD1	1:AP:491:LEU:HD21	2.10	0.51
1:AJ:46:SER:OG	1:AM:112:LEU:HD11	2.10	0.51
1:AJ:138:LEU:N	1:AJ:138:LEU:HD23	2.25	0.51
1:AJ:342:HIS:ND1	1:AJ:343:ALA:N	2.59	0.51
1:AJ:463:GLN:HA	1:AJ:466:VAL:HG22	1.92	0.51
1:AM:251:GLY:H	1:AM:332:GLY:CA	2.16	0.51
1:AM:262:LEU:HD12	1:AM:263:THR:N	2.26	0.51
1:AM:449:GLN:HE21	1:AU:42:ALA:HB2	1.75	0.51
1:AN:230:ILE:HG13	1:AN:231:ILE:N	2.24	0.51
1:AO:42:ALA:HB2	1:AQ:449:GLN:HE21	1.75	0.51
1:AP:502:ALA:O	1:AP:505:VAL:HG22	2.09	0.51
1:AQ:284:LEU:O	1:AQ:288:ILE:HG12	2.11	0.51
1:AQ:369:GLY:HA2	1:AQ:374:GLN:NE2	2.25	0.51
1:AR:302:ASP:OD2	1:AR:306:ARG:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:454:THR:HB	1:AT:122:GLU:OE2	2.10	0.51
1:AS:511:ARG:HH12	1:AS:512:LEU:CD1	2.20	0.51
1:AT:81:ALA:CB	1:AT:138:LEU:HD11	2.40	0.51
1:AT:209:TYR:CE2	1:AT:237:THR:HG22	2.45	0.51
1:AU:172:VAL:O	1:AU:380:THR:HA	2.11	0.51
1:AX:172:VAL:O	1:AX:380:THR:HA	2.10	0.51
1:AX:201:LYS:HA	1:AX:208:ASP:HB2	1.93	0.51
1:A1:383:LEU:HA	1:A1:430:MET:CE	2.39	0.51
1:A2:8:ASN:ND2	1:A2:11:ALA:HB2	2.25	0.51
1:A2:187:SER:HB3	1:A2:335:ALA:HB1	1.92	0.51
1:A4:8:ASN:ND2	1:A4:11:ALA:HB2	2.25	0.51
1:A5:120:LEU:HD11	1:A5:166:SER:HB2	1.92	0.51
1:A6:89:LEU:HA	1:A6:92:ILE:HD13	1.91	0.51
1:A7:144:ASN:HD21	1:AP:247:MET:HE1	1.75	0.51
1:A7:184:MET:O	1:A7:189:ALA:HB2	2.10	0.51
1:A8:201:LYS:HA	1:A8:208:ASP:HB2	1.93	0.51
1:A9:81:ALA:CB	1:A9:138:LEU:HD11	2.41	0.51
1:A9:179:PHE:CZ	1:A9:344:VAL:HG13	2.44	0.51
1:AA:44:ASP:C	1:AA:44:ASP:OD1	2.54	0.51
1:AB:88:ILE:O	1:AB:92:ILE:CD1	2.53	0.51
1:AC:251:GLY:H	1:AC:333:ASN:H	1.59	0.51
1:AC:366:SER:HB2	1:AC:374:GLN:OE1	2.11	0.51
1:AC:496:SER:OG	1:AX:512:LEU:HD13	2.11	0.51
1:AD:65:ILE:HG23	1:AD:456:ILE:HD12	1.93	0.51
1:AF:366:SER:HB2	1:AF:374:GLN:OE1	2.11	0.51
1:AH:34:SER:CA	1:AI:17:VAL:HG11	2.25	0.51
1:AH:88:ILE:HG22	1:AH:92:ILE:CD1	2.41	0.51
1:AH:187:SER:HB3	1:AH:335:ALA:HB1	1.93	0.51
1:AI:246:VAL:HG22	1:AI:346:GLY:HA3	1.92	0.51
1:AI:303:ILE:HA	1:AO:234:PHE:CZ	2.46	0.51
1:AM:54:LEU:HB3	1:AM:470:GLU:HB2	1.92	0.51
1:AN:410:ASN:HD21	1:AN:414:ILE:CG2	2.23	0.51
1:AO:4:ARG:HH12	1:AQ:472:GLN:HA	1.76	0.51
1:AO:15:HIS:O	1:AO:19:VAL:HG12	2.09	0.51
1:AP:15:HIS:O	1:AP:19:VAL:HG12	2.11	0.51
1:AP:175:GLU:HG2	1:AP:378:GLU:CG	2.30	0.51
1:AP:510:LEU:HD12	1:AT:490:ILE:HG22	1.93	0.51
1:AR:211:ILE:CD1	1:AR:238:LEU:HD11	2.40	0.51
1:AR:319:VAL:H	1:AR:342:HIS:HD2	1.58	0.51
1:AS:502:ALA:O	1:AS:505:VAL:HG22	2.10	0.51
1:AT:370:PHE:HA	1:AT:376:VAL:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:233:ARG:HD2	1:AU:234:PHE:CE1	2.46	0.51
1:AX:74:MET:HB3	1:AX:137:MET:CE	2.40	0.51
1:A3:218:THR:O	1:A3:315:ARG:HD3	2.11	0.51
1:A3:292:LYS:HD3	1:A3:298:GLU:CA	2.41	0.51
1:A5:463:GLN:HA	1:A5:466:VAL:HG22	1.91	0.51
1:A6:120:LEU:HD22	1:A6:387:ARG:HG3	1.92	0.51
1:A6:212:GLU:HA	1:A6:212:GLU:OE1	2.10	0.51
1:A8:110:ARG:HG3	1:AK:293:ASP:OD2	2.10	0.51
1:AA:258:THR:CG2	1:AA:273:ASN:HA	2.27	0.51
1:AB:186:ALA:HB3	1:AB:334:PHE:HB2	1.91	0.51
1:AD:8:ASN:ND2	1:AD:11:ALA:HB2	2.26	0.51
1:AI:122:GLU:HG3	1:AO:451:GLU:HG3	1.89	0.51
1:AK:211:ILE:HD11	1:AK:238:LEU:CD1	2.27	0.51
1:AK:370:PHE:HA	1:AK:376:VAL:CG1	2.40	0.51
1:AN:186:ALA:HB2	1:AN:334:PHE:HB2	1.91	0.51
1:AN:209:TYR:CE2	1:AN:237:THR:HG22	2.45	0.51
1:AN:259:VAL:HA	1:AN:324:ALA:CB	2.40	0.51
1:AQ:35:GLY:O	1:AQ:476:VAL:HG12	2.11	0.51
1:AQ:278:ASN:CG	1:AR:212:GLU:HG3	2.36	0.51
1:AQ:291:VAL:HG23	1:AQ:295:THR:HG21	1.91	0.51
1:AR:74:MET:HE1	1:AR:142:PHE:CZ	2.46	0.51
1:AW:163:SER:OG	1:AW:168:LYS:HD3	2.11	0.51
1:A1:163:SER:OG	1:A1:168:LYS:HD3	2.11	0.51
1:A3:145:LYS:HA	1:AS:102:ASP:OD2	2.11	0.51
1:A3:173:ARG:HD2	1:A3:357:ASP:HA	1.93	0.51
1:A3:189:ALA:HB3	1:A3:343:ALA:HB3	1.93	0.51
1:A4:211:ILE:HD11	1:A4:238:LEU:HD11	1.92	0.51
1:A4:263:THR:HG21	1:A4:268:GLU:HG3	1.92	0.51
1:A5:8:ASN:ND2	1:A5:11:ALA:HB2	2.26	0.51
1:A5:120:LEU:HD11	1:A5:383:LEU:HG	1.92	0.51
1:A5:211:ILE:HD11	1:A5:238:LEU:CD1	2.39	0.51
1:A6:184:MET:HE1	1:A6:345:ILE:CD1	2.41	0.51
1:A8:92:ILE:HG23	1:A8:116:ILE:CG1	2.34	0.51
1:AA:269:ILE:O	1:AN:356:ARG:HD2	2.10	0.51
1:AB:365:PHE:O	1:AB:368:VAL:HG12	2.10	0.51
1:AC:263:THR:HG22	1:AC:268:GLU:HG3	1.92	0.51
1:AD:224:ILE:CD1	1:AD:346:GLY:HA3	2.40	0.51
1:AD:258:THR:CG2	1:AD:273:ASN:HA	2.30	0.51
1:AD:352:ARG:HB2	1:AD:358:ILE:HD11	1.92	0.51
1:AE:61:LEU:O	1:AE:65:ILE:HG13	2.11	0.51
1:AG:201:LYS:HD3	2:AG:602:P8E:O1A	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:513:LEU:HD13	1:AW:479:ALA:HA	1.90	0.51
1:AH:92:ILE:HG23	1:AH:116:ILE:HG23	1.92	0.51
1:AI:179:PHE:CZ	1:AI:344:VAL:HG13	2.42	0.51
1:AI:510:LEU:CD1	1:AQ:490:ILE:HG23	2.37	0.51
1:AL:511:ARG:HH22	1:AL:512:LEU:HD13	1.75	0.51
1:AO:104:GLN:HB3	1:AO:108:SER:OG	2.11	0.51
1:AR:186:ALA:HB2	1:AR:334:PHE:HB2	1.91	0.51
1:AT:214:VAL:HG23	1:AT:230:ILE:HD13	1.92	0.51
1:AT:215:ARG:HB2	1:AT:215:ARG:NH1	2.25	0.51
1:AT:218:THR:O	1:AT:315:ARG:HD3	2.11	0.51
1:AT:410:ASN:HD21	1:AT:414:ILE:CG2	2.23	0.51
1:AT:511:ARG:HH12	1:AT:512:LEU:HD13	1.75	0.51
1:AU:102:ASP:OD2	1:AX:145:LYS:HA	2.11	0.51
1:AU:184:MET:HE1	1:AU:345:ILE:CD1	2.41	0.51
1:AV:61:LEU:O	1:AV:65:ILE:HG13	2.11	0.51
1:AW:395:ALA:HB2	1:AW:414:ILE:HG23	1.92	0.51
1:A1:303:ILE:HD12	1:AQ:234:PHE:CD2	2.46	0.51
1:A2:167:ASP:HA	1:A2:384:ARG:CB	2.34	0.51
1:A2:233:ARG:HG2	1:A2:234:PHE:CD2	2.45	0.51
1:A2:369:GLY:HA2	1:A2:374:GLN:NE2	2.25	0.51
1:A3:89:LEU:HD12	1:A3:438:LEU:HD12	1.93	0.51
1:A4:35:GLY:O	1:A4:476:VAL:HG12	2.11	0.51
1:A5:118:ARG:NH2	1:AD:448:VAL:HG22	2.26	0.51
1:A6:277:LYS:HB2	2:A6:609:P8E:O1B	2.10	0.51
1:A7:4:ARG:HG3	1:AP:475:ASP:HB3	1.92	0.51
1:A7:510:LEU:HD22	1:A7:514:GLN:NE2	2.13	0.51
1:A8:448:VAL:HG22	1:AS:118:ARG:NH2	2.25	0.51
1:A9:161:ILE:HD13	1:A9:445:MET:HE1	1.93	0.51
1:A9:212:GLU:OE2	1:AA:305:GLY:HA3	2.09	0.51
1:AB:61:LEU:O	1:AB:65:ILE:HG13	2.11	0.51
1:AB:365:PHE:HZ	1:AB:371:HIS:HD1	1.56	0.51
1:AC:118:ARG:NH2	1:AX:448:VAL:HG22	2.26	0.51
1:AC:184:MET:O	1:AC:189:ALA:HB2	2.11	0.51
1:AC:250:GLY:HA2	1:AC:333:ASN:H	1.76	0.51
1:AD:183:GLY:O	1:AD:188:ALA:HB3	2.11	0.51
1:AD:369:GLY:HA2	1:AD:374:GLN:NE2	2.25	0.51
1:AE:262:LEU:HD12	1:AE:263:THR:N	2.26	0.51
1:AF:291:VAL:HG23	1:AF:295:THR:HG23	1.89	0.51
1:AG:50:ILE:HD11	1:AM:133:ASN:HD21	1.75	0.51
1:AH:183:GLY:O	1:AH:188:ALA:HB3	2.11	0.51
1:AI:88:ILE:O	1:AI:92:ILE:CD1	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:422:LYS:O	1:AI:426:ILE:CD1	2.58	0.51
1:AI:462:THR:O	1:AI:466:VAL:HG13	2.10	0.51
1:AK:61:LEU:HB3	1:AK:463:GLN:HB2	1.92	0.51
1:AL:8:ASN:HB3	1:AL:11:ALA:HB3	1.93	0.51
1:AN:319:VAL:HG13	1:AN:342:HIS:CD2	2.46	0.51
1:AO:6:ASN:ND2	1:AQ:36:LEU:HD21	2.25	0.51
1:AO:179:PHE:HD1	1:AO:184:MET:CE	2.24	0.51
1:AQ:511:ARG:HH12	1:AQ:512:LEU:HD13	1.76	0.51
1:AR:192:ASN:HA	1:AR:367:HIS:CE1	2.46	0.51
1:AS:61:LEU:O	1:AS:65:ILE:HG13	2.10	0.51
1:AS:463:GLN:HA	1:AS:466:VAL:HG22	1.91	0.51
1:AT:74:MET:HE2	1:AT:132:PHE:CD1	2.46	0.51
1:AU:502:ALA:O	1:AU:505:VAL:HG22	2.11	0.51
1:AV:35:GLY:O	1:AV:476:VAL:HG12	2.09	0.51
1:AV:365:PHE:CD1	1:AV:365:PHE:C	2.89	0.51
1:AW:353:THR:HG23	1:AW:433:SER:CB	2.33	0.51
1:AW:486:SER:O	1:AW:490:ILE:HG12	2.10	0.51
1:A1:93:LYS:HE2	1:AI:60:ASN:HD21	1.76	0.51
1:A2:259:VAL:HG13	1:A2:324:ALA:CB	2.40	0.51
1:A2:449:GLN:HE21	1:AR:42:ALA:HB2	1.75	0.51
1:A4:104:GLN:HB3	1:A4:108:SER:OG	2.11	0.51
1:A4:118:ARG:NH2	1:AF:448:VAL:HG22	2.26	0.51
1:A4:201:LYS:HA	1:A4:208:ASP:HB2	1.93	0.51
1:A5:61:LEU:O	1:A5:65:ILE:HG13	2.10	0.51
1:A5:179:PHE:CZ	1:A5:344:VAL:HG13	2.45	0.51
1:A6:175:GLU:HG2	1:A6:378:GLU:CG	2.30	0.51
1:A6:490:ILE:CG2	1:AG:510:LEU:HD12	2.41	0.51
1:A7:348:LEU:HD21	1:A7:350:LEU:CD2	2.40	0.51
1:A9:105:THR:HG21	1:AK:133:ASN:O	2.11	0.51
1:AA:54:LEU:HB3	1:AA:470:GLU:HB2	1.91	0.51
1:AC:259:VAL:HG11	1:AC:262:LEU:HB2	1.93	0.51
1:AF:34:SER:HA	1:AN:17:VAL:CG1	2.39	0.51
1:AF:259:VAL:HA	1:AF:324:ALA:CB	2.41	0.51
1:AG:510:LEU:HD23	1:AG:510:LEU:N	2.25	0.51
1:AH:86:ILE:HD13	1:AH:439:ASP:OD1	2.10	0.51
1:AI:117:GLN:NE2	1:AI:387:ARG:HD2	2.25	0.51
1:AI:354:ASP:OD2	1:AI:356:ARG:HD3	2.11	0.51
1:AK:179:PHE:CZ	1:AK:344:VAL:HG13	2.43	0.51
1:AL:201:LYS:HA	1:AL:208:ASP:HB2	1.92	0.51
1:AL:455:THR:O	1:AL:459:ILE:HG12	2.11	0.51
1:AN:277:LYS:HB2	2:AN:609:P8E:O1B	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:490:ILE:CG2	1:AS:510:LEU:HD12	2.41	0.51
1:AO:203:VAL:HG11	1:AO:238:LEU:HD22	1.92	0.51
1:AT:319:VAL:HG12	1:AT:342:HIS:CD2	2.46	0.51
1:AT:426:ILE:HD12	1:AT:426:ILE:H	1.76	0.51
1:AU:189:ALA:C	1:AU:343:ALA:HB3	2.36	0.51
1:AX:92:ILE:HG23	1:AX:116:ILE:HG12	1.93	0.51
1:AX:244:TYR:C	1:AX:244:TYR:CD2	2.89	0.51
1:A2:122:GLU:OE1	1:AM:454:THR:HB	2.11	0.51
1:A3:259:VAL:HG11	1:A3:262:LEU:HB2	1.92	0.51
1:A4:167:ASP:HB3	1:A4:384:ARG:CZ	2.41	0.51
1:A4:281:ASP:HB2	1:AT:382:ASN:ND2	2.26	0.51
1:A5:61:LEU:HB3	1:A5:463:GLN:HB2	1.92	0.51
1:A6:29:LEU:HD11	1:A6:485:PHE:CE1	2.46	0.51
1:A6:34:SER:CA	1:AT:17:VAL:HG11	2.26	0.51
1:A6:167:ASP:CA	1:A6:384:ARG:HB2	2.39	0.51
1:A6:448:VAL:HG22	1:AW:118:ARG:NH2	2.26	0.51
1:A7:120:LEU:HD22	1:A7:387:ARG:HD3	1.92	0.51
1:A9:214:VAL:HG11	1:A9:227:LEU:HB2	1.92	0.51
1:A9:462:THR:O	1:A9:466:VAL:HG13	2.10	0.51
1:AB:462:THR:O	1:AB:466:VAL:HG13	2.10	0.51
1:AC:251:GLY:H	1:AC:332:GLY:CA	2.16	0.51
1:AE:486:SER:O	1:AE:490:ILE:HG13	2.11	0.51
1:AE:513:LEU:HD11	1:AK:479:ALA:HA	1.92	0.51
1:AI:201:LYS:HB2	1:AI:359:ILE:CG1	2.40	0.51
1:AI:370:PHE:HA	1:AI:376:VAL:CG1	2.40	0.51
1:AJ:260:ARG:HA	1:AJ:271:THR:OG1	2.10	0.51
1:AK:81:ALA:CB	1:AK:138:LEU:HD11	2.40	0.51
1:AL:179:PHE:HD1	1:AL:184:MET:CE	2.21	0.51
1:AM:283:ARG:HA	1:AM:286:ASN:OD1	2.10	0.51
1:AS:201:LYS:HA	1:AS:208:ASP:HB2	1.93	0.51
1:AU:244:TYR:C	1:AU:244:TYR:CD2	2.89	0.51
1:AU:259:VAL:O	1:AU:271:THR:HG23	2.10	0.51
1:A2:61:LEU:O	1:A2:65:ILE:HG13	2.11	0.50
1:A3:138:LEU:N	1:A3:138:LEU:HD23	2.25	0.50
1:A5:153:SER:HB3	1:AH:429:ASP:OD1	2.10	0.50
1:A5:184:MET:O	1:A5:189:ALA:HB2	2.10	0.50
1:A6:82:MET:HE1	1:A6:441:ILE:CG2	2.40	0.50
1:A8:61:LEU:HB3	1:A8:463:GLN:HB2	1.93	0.50
1:A8:184:MET:O	1:A8:189:ALA:HB2	2.11	0.50
1:AA:117:GLN:OE1	1:AA:387:ARG:HG2	2.11	0.50
1:AA:201:LYS:HA	1:AA:208:ASP:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:452:LEU:O	1:AA:456:ILE:HG12	2.11	0.50
1:AC:125:ASN:O	1:AC:129:THR:HG23	2.11	0.50
1:AF:233:ARG:HD2	1:AF:234:PHE:CE2	2.46	0.50
1:AF:303:ILE:HD12	1:AN:234:PHE:CE1	2.46	0.50
1:AG:116:ILE:HD13	1:AG:418:VAL:HG21	1.91	0.50
1:AH:203:VAL:HG21	1:AH:209:TYR:CD1	2.46	0.50
1:AH:224:ILE:HD13	1:AH:345:ILE:O	2.10	0.50
1:AI:186:ALA:HB2	1:AI:334:PHE:HB2	1.93	0.50
1:AI:319:VAL:H	1:AI:342:HIS:HD2	1.59	0.50
1:AK:201:LYS:HB2	1:AK:359:ILE:CG1	2.41	0.50
1:AK:259:VAL:HA	1:AK:324:ALA:CB	2.41	0.50
1:AN:218:THR:O	1:AN:315:ARG:HD3	2.11	0.50
1:AP:249:THR:CG2	1:AP:405:ALA:HB3	2.41	0.50
1:AQ:259:VAL:HA	1:AQ:324:ALA:CB	2.40	0.50
1:AS:454:THR:HB	1:AT:122:GLU:OE1	2.11	0.50
1:AT:117:GLN:C	1:AT:117:GLN:OE1	2.53	0.50
1:AT:201:LYS:HA	1:AT:208:ASP:CB	2.41	0.50
1:AV:201:LYS:HB2	1:AV:359:ILE:HG13	1.92	0.50
1:A1:262:LEU:HD12	1:A1:263:THR:N	2.26	0.50
1:A1:395:ALA:HB2	1:A1:414:ILE:HG23	1.93	0.50
1:A5:122:GLU:CG	1:AD:451:GLU:HG3	2.33	0.50
1:A6:122:GLU:OE1	1:AT:454:THR:HB	2.12	0.50
1:A6:337:ILE:HG22	1:A6:342:HIS:ND1	2.26	0.50
1:A7:201:LYS:HB2	1:A7:359:ILE:HG13	1.93	0.50
1:A8:303:ILE:HG13	1:AE:234:PHE:CD2	2.46	0.50
1:A9:99:ALA:CB	1:A9:112:LEU:HD22	2.24	0.50
1:AB:201:LYS:HA	1:AB:208:ASP:HB2	1.94	0.50
1:AE:418:VAL:HG22	1:AE:427:VAL:HG21	1.93	0.50
1:AE:509:VAL:HG13	1:AE:510:LEU:N	2.26	0.50
1:AF:129:THR:CG2	1:AN:155:THR:HG23	2.41	0.50
1:AG:166:SER:O	1:AG:383:LEU:HB3	2.11	0.50
1:AG:192:ASN:HA	1:AG:367:HIS:CE1	2.46	0.50
1:AG:209:TYR:CE2	1:AG:237:THR:HG22	2.46	0.50
1:AH:149:ILE:HD12	1:AH:455:THR:HG21	1.93	0.50
1:AH:410:ASN:HD21	1:AH:414:ILE:CG2	2.24	0.50
1:AI:485:PHE:CE2	1:AO:501:GLN:HG3	2.46	0.50
1:AJ:352:ARG:HD2	1:AJ:356:ARG:O	2.11	0.50
1:AL:60:ASN:HD21	1:AT:93:LYS:HE2	1.77	0.50
1:AL:179:PHE:CZ	1:AL:344:VAL:HG13	2.46	0.50
1:AL:184:MET:O	1:AL:189:ALA:HB2	2.12	0.50
1:AM:92:ILE:HD12	1:AM:92:ILE:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:173:ARG:HD2	1:AN:357:ASP:HA	1.93	0.50
1:AN:370:PHE:HA	1:AN:376:VAL:CG1	2.40	0.50
1:AQ:118:ARG:HG3	1:AR:447:SER:OG	2.11	0.50
1:AR:277:LYS:HB2	2:AR:609:P8E:O1B	2.12	0.50
1:AU:291:VAL:HG23	1:AU:295:THR:HG23	1.92	0.50
1:AU:478:PHE:HE2	1:AX:5:ILE:HG21	1.76	0.50
1:AV:149:ILE:HD12	1:AV:455:THR:HG21	1.93	0.50
1:AW:15:HIS:HA	1:AW:499:MET:HE3	1.93	0.50
1:A2:386:VAL:HG22	1:A2:427:VAL:HG22	1.93	0.50
1:A3:89:LEU:CA	1:A3:92:ILE:HD12	2.42	0.50
1:A4:249:THR:CG2	1:A4:405:ALA:HB3	2.40	0.50
1:A6:100:ALA:HB2	1:A6:424:ALA:HB1	1.94	0.50
1:A7:231:ILE:HG21	1:A7:242:ALA:HB2	1.93	0.50
1:A9:458:ASN:HB2	1:AA:84:GLU:HG2	1.94	0.50
1:AB:65:ILE:HG23	1:AB:456:ILE:HD12	1.92	0.50
1:AB:89:LEU:HA	1:AB:92:ILE:HD12	1.93	0.50
1:AD:61:LEU:HB3	1:AD:463:GLN:HB2	1.93	0.50
1:AE:259:VAL:HA	1:AE:324:ALA:HB2	1.93	0.50
1:AF:262:LEU:HD12	1:AF:263:THR:N	2.27	0.50
1:AG:271:THR:O	1:AJ:357:ASP:HB2	2.11	0.50
1:AG:395:ALA:CB	1:AG:414:ILE:HG23	2.42	0.50
1:AH:201:LYS:HB2	1:AH:359:ILE:HG13	1.91	0.50
1:AI:5:ILE:HG12	1:AQ:490:ILE:CG2	2.42	0.50
1:AI:363:VAL:HG22	1:AI:364:ASN:OD1	2.11	0.50
1:AI:509:VAL:HG13	1:AI:510:LEU:CD2	2.31	0.50
1:AJ:8:ASN:ND2	1:AJ:11:ALA:HB2	2.27	0.50
1:AJ:501:GLN:HG3	1:AU:485:PHE:CE2	2.46	0.50
1:AK:218:THR:O	1:AK:315:ARG:HD3	2.11	0.50
1:AL:389:ILE:HD11	1:AS:294:ARG:HH21	1.75	0.50
1:AM:78:ALA:O	1:AM:82:MET:HE2	2.11	0.50
1:AP:173:ARG:HD2	1:AP:357:ASP:HA	1.94	0.50
1:AQ:117:GLN:C	1:AQ:117:GLN:OE1	2.54	0.50
1:AQ:363:VAL:HG22	1:AQ:364:ASN:OD1	2.11	0.50
1:AR:8:ASN:ND2	1:AR:11:ALA:HB2	2.27	0.50
1:AR:118:ARG:NH2	1:AU:448:VAL:HG22	2.27	0.50
1:AR:259:VAL:HG13	1:AR:324:ALA:CB	2.40	0.50
1:AV:175:GLU:HG2	1:AV:378:GLU:CG	2.33	0.50
1:AW:15:HIS:HA	1:AW:499:MET:CE	2.40	0.50
1:AW:99:ALA:CB	1:AW:112:LEU:HD22	2.22	0.50
1:A1:186:ALA:HB2	1:A1:334:PHE:HB2	1.93	0.50
1:A1:448:VAL:HG22	1:AB:118:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:278:ASN:OD1	1:A3:305:GLY:HA3	2.12	0.50
1:A4:5:ILE:HG12	1:A4:510:LEU:HD11	1.92	0.50
1:A5:83:ASP:C	1:A5:83:ASP:OD1	2.54	0.50
1:A7:224:ILE:HD11	1:A7:346:GLY:HA3	1.94	0.50
1:A7:486:SER:O	1:A7:490:ILE:HG13	2.11	0.50
1:A7:513:LEU:CD1	1:AP:479:ALA:HA	2.41	0.50
1:A8:284:LEU:O	1:A8:288:ILE:HG12	2.11	0.50
1:A8:463:GLN:HA	1:A8:466:VAL:HG22	1.92	0.50
1:A8:510:LEU:HD12	1:AK:490:ILE:CG2	2.41	0.50
1:AA:291:VAL:HG23	1:AA:295:THR:HG23	1.92	0.50
1:AB:174:MET:HE1	1:AB:398:ALA:HB2	1.92	0.50
1:AC:149:ILE:HD11	1:AC:157:VAL:CG2	2.40	0.50
1:AC:175:GLU:HA	1:AC:377:ALA:O	2.11	0.50
1:AC:510:LEU:HD12	1:AU:490:ILE:CG2	2.41	0.50
1:AD:38:ILE:HD11	1:AD:44:ASP:HB3	1.93	0.50
1:AF:179:PHE:CZ	1:AF:344:VAL:HG13	2.43	0.50
1:AF:186:ALA:HB2	1:AF:334:PHE:HB2	1.92	0.50
1:AF:263:THR:HG22	1:AF:268:GLU:HG3	1.93	0.50
1:AF:386:VAL:HG22	1:AF:427:VAL:HG22	1.94	0.50
1:AI:203:VAL:HG11	1:AI:238:LEU:HD22	1.92	0.50
1:AJ:104:GLN:HB3	1:AJ:108:SER:OG	2.11	0.50
1:AK:284:LEU:O	1:AK:288:ILE:HG12	2.12	0.50
1:AL:201:LYS:HB2	1:AL:359:ILE:CG1	2.41	0.50
1:AL:366:SER:HB2	1:AL:374:GLN:OE1	2.12	0.50
1:AL:513:LEU:HD13	1:AT:479:ALA:HA	1.94	0.50
1:AM:76:GLN:O	1:AM:80:LYS:HG2	2.10	0.50
1:AN:183:GLY:O	1:AN:188:ALA:HB3	2.11	0.50
1:AN:284:LEU:O	1:AN:288:ILE:HG12	2.12	0.50
1:AO:74:MET:HE1	1:AO:142:PHE:CE2	2.47	0.50
1:AO:511:ARG:HH12	1:AO:512:LEU:HD13	1.77	0.50
1:AP:386:VAL:HG22	1:AP:427:VAL:HG22	1.93	0.50
1:AP:422:LYS:HA	1:AP:422:LYS:HE3	1.94	0.50
1:AQ:167:ASP:CA	1:AQ:384:ARG:HB2	2.40	0.50
1:AQ:283:ARG:HG3	1:AQ:284:LEU:N	2.27	0.50
1:AT:167:ASP:HA	1:AT:384:ARG:CB	2.40	0.50
1:AW:328:VAL:HG12	1:AW:329:PHE:HD1	1.75	0.50
1:A1:138:LEU:HD12	1:A1:138:LEU:N	2.26	0.50
1:A4:8:ASN:HB3	1:A4:11:ALA:HB3	1.93	0.50
1:A5:122:GLU:OE1	1:AD:454:THR:HB	2.11	0.50
1:A6:211:ILE:HD11	1:A6:238:LEU:HD11	1.93	0.50
1:A7:116:ILE:CD1	1:A7:418:VAL:HG21	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:102:ASP:OD2	1:AK:145:LYS:HA	2.12	0.50
1:A9:234:PHE:HB3	1:A9:238:LEU:HD13	1.93	0.50
1:A9:247:MET:HE1	1:AK:144:ASN:HD21	1.77	0.50
1:AA:325:SER:CB	1:AA:330:GLY:HA3	2.41	0.50
1:AB:325:SER:CB	1:AB:330:GLY:HA3	2.42	0.50
1:AC:57:GLN:O	1:AC:61:LEU:HG	2.12	0.50
1:AC:120:LEU:HD23	1:AC:124:ASP:OD2	2.11	0.50
1:AC:155:THR:HG23	1:AO:129:THR:CG2	2.42	0.50
1:AE:218:THR:O	1:AE:315:ARG:HD3	2.12	0.50
1:AF:93:LYS:HG2	1:AS:60:ASN:ND2	2.26	0.50
1:AF:277:LYS:HB2	2:AF:609:P8E:O1B	2.11	0.50
1:AG:363:VAL:HG22	1:AG:364:ASN:OD1	2.12	0.50
1:AH:251:GLY:H	1:AH:332:GLY:CA	2.15	0.50
1:AH:277:LYS:HB2	2:AH:609:P8E:O1B	2.11	0.50
1:AH:384:ARG:HD2	1:AH:387:ARG:NH2	2.27	0.50
1:AJ:175:GLU:HG2	1:AJ:378:GLU:CG	2.32	0.50
1:AK:186:ALA:HB2	1:AK:334:PHE:HB2	1.91	0.50
1:AN:167:ASP:HB3	1:AN:384:ARG:CZ	2.41	0.50
1:AO:183:GLY:O	1:AO:188:ALA:HB3	2.11	0.50
1:AO:463:GLN:HA	1:AO:466:VAL:HG22	1.92	0.50
1:AP:74:MET:HE1	1:AP:142:PHE:CZ	2.46	0.50
1:AQ:166:SER:O	1:AQ:383:LEU:HB3	2.12	0.50
1:AQ:179:PHE:HD1	1:AQ:184:MET:HE2	1.76	0.50
1:AR:88:ILE:O	1:AR:92:ILE:CD1	2.53	0.50
1:AR:201:LYS:HB2	1:AR:359:ILE:CG1	2.41	0.50
1:AR:203:VAL:HG21	1:AR:209:TYR:HD1	1.74	0.50
1:AS:17:VAL:HG11	1:AT:34:SER:CA	2.30	0.50
1:AS:363:VAL:HG22	1:AS:364:ASN:OD1	2.12	0.50
1:AT:167:ASP:CA	1:AT:384:ARG:HB2	2.41	0.50
1:AT:363:VAL:HG22	1:AT:364:ASN:OD1	2.11	0.50
1:AU:61:LEU:HB3	1:AU:463:GLN:HB2	1.92	0.50
1:AU:463:GLN:HA	1:AU:466:VAL:HG22	1.93	0.50
1:AV:291:VAL:HG23	1:AV:295:THR:HG23	1.92	0.50
1:AV:448:VAL:O	1:AV:452:LEU:HG	2.11	0.50
1:AW:104:GLN:HB3	1:AW:108:SER:OG	2.12	0.50
1:AW:201:LYS:HB2	1:AW:359:ILE:CG1	2.41	0.50
1:AX:8:ASN:ND2	1:AX:11:ALA:HB2	2.27	0.50
1:AX:201:LYS:HD3	2:AX:602:P8E:O1A	2.11	0.50
1:A1:447:SER:OG	1:AB:118:ARG:HG3	2.11	0.50
1:A3:149:ILE:HD12	1:A3:455:THR:HG21	1.93	0.50
1:A3:328:VAL:HG12	1:A3:329:PHE:HD1	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:171:HIS:CE1	1:AH:286:ASN:HD22	2.29	0.50
1:A5:175:GLU:HG2	1:A5:378:GLU:CG	2.30	0.50
1:A6:421:LEU:HD12	1:A6:421:LEU:O	2.11	0.50
1:A8:174:MET:HE3	1:A8:398:ALA:HA	1.92	0.50
1:A9:88:ILE:CD1	1:AH:454:THR:HG21	2.31	0.50
1:AA:475:ASP:HB2	1:AN:4:ARG:HG2	1.93	0.50
1:AB:422:LYS:O	1:AB:426:ILE:CD1	2.57	0.50
1:AB:426:ILE:O	1:AB:430:MET:HG3	2.12	0.50
1:AC:213:THR:HG23	1:AO:278:ASN:HD21	1.77	0.50
1:AE:8:ASN:ND2	1:AE:11:ALA:HB2	2.27	0.50
1:AE:175:GLU:HG2	1:AE:378:GLU:CG	2.31	0.50
1:AE:184:MET:HE1	1:AE:345:ILE:CD1	2.41	0.50
1:AE:300:SER:O	1:AE:301:LEU:HD23	2.12	0.50
1:AF:161:ILE:CD1	1:AF:445:MET:HE1	2.41	0.50
1:AG:353:THR:HG23	1:AG:433:SER:CB	2.35	0.50
1:AH:54:LEU:HB3	1:AH:470:GLU:HB2	1.92	0.50
1:AH:214:VAL:HG11	1:AH:227:LEU:HB2	1.92	0.50
1:AI:508:ASN:CA	1:AI:511:ARG:HG2	2.33	0.50
1:AJ:511:ARG:NH1	1:AJ:512:LEU:HD12	2.20	0.50
1:AL:60:ASN:HD21	1:AT:93:LYS:CE	2.25	0.50
1:AL:146:GLU:CD	1:AT:421:LEU:HD21	2.36	0.50
1:AM:440:LYS:HB2	1:AM:440:LYS:HZ3	1.74	0.50
1:AN:163:SER:OG	1:AN:168:LYS:HD3	2.11	0.50
1:AN:211:ILE:CD1	1:AN:238:LEU:HD21	2.40	0.50
1:AN:353:THR:HG23	1:AN:433:SER:CB	2.36	0.50
1:AN:369:GLY:HA2	1:AN:374:GLN:NE2	2.27	0.50
1:AO:173:ARG:HD2	1:AO:357:ASP:HA	1.93	0.50
1:AP:369:GLY:HA2	1:AP:374:GLN:NE2	2.27	0.50
1:AR:179:PHE:CZ	1:AR:344:VAL:HG13	2.45	0.50
1:AR:231:ILE:HG21	1:AR:242:ALA:HB2	1.92	0.50
1:AT:291:VAL:HG23	1:AT:295:THR:HG21	1.92	0.50
1:AU:319:VAL:HG13	1:AU:342:HIS:CD2	2.47	0.50
1:AV:88:ILE:O	1:AV:92:ILE:CD1	2.55	0.50
1:AX:225:GLY:HA2	1:AX:244:TYR:CD1	2.46	0.50
1:A1:88:ILE:O	1:A1:92:ILE:CD1	2.55	0.50
1:A1:462:THR:HG23	1:AB:77:THR:HG23	1.93	0.50
1:A2:328:VAL:HG12	1:A2:329:PHE:HD1	1.76	0.50
1:A3:281:ASP:OD2	1:A3:283:ARG:HB3	2.11	0.50
1:A5:184:MET:SD	1:A5:345:ILE:HD11	2.52	0.50
1:A6:458:ASN:ND2	1:AW:126:ILE:HG23	2.27	0.50
1:A8:50:ILE:HD11	1:AS:133:ASN:HD21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:88:ILE:O	1:A9:92:ILE:CD1	2.54	0.50
1:AA:259:VAL:HA	1:AA:324:ALA:CB	2.42	0.50
1:AA:366:SER:HB2	1:AA:374:GLN:OE1	2.12	0.50
1:AA:502:ALA:O	1:AA:505:VAL:HG12	2.12	0.50
1:AC:117:GLN:NE2	1:AC:387:ARG:HD2	2.26	0.50
1:AC:172:VAL:O	1:AC:380:THR:HA	2.12	0.50
1:AF:118:ARG:NH2	1:AN:448:VAL:HG22	2.27	0.50
1:AF:161:ILE:CG2	1:AF:445:MET:HE1	2.41	0.50
1:AG:167:ASP:CA	1:AG:384:ARG:HB2	2.41	0.50
1:AH:470:GLU:HA	1:AH:473:ILE:CG2	2.41	0.50
1:AH:490:ILE:HD11	1:AK:507:GLN:HB2	1.94	0.50
1:AH:511:ARG:HH12	1:AH:512:LEU:HD13	1.77	0.50
1:AI:173:ARG:HD2	1:AI:357:ASP:HA	1.94	0.50
1:AI:369:GLY:HA2	1:AI:374:GLN:NE2	2.27	0.50
1:AM:82:MET:HE1	1:AM:445:MET:HE2	1.94	0.50
1:AM:281:ASP:HB2	1:AU:382:ASN:ND2	2.26	0.50
1:AM:363:VAL:HG22	1:AM:364:ASN:OD1	2.12	0.50
1:AM:370:PHE:HA	1:AM:376:VAL:CG1	2.42	0.50
1:AN:212:GLU:OE2	1:AN:212:GLU:N	2.45	0.50
1:AP:187:SER:HB3	1:AP:335:ALA:HB1	1.92	0.50
1:AS:211:ILE:CD1	1:AS:234:PHE:HD2	2.24	0.50
1:AS:386:VAL:HG22	1:AS:427:VAL:HG22	1.93	0.50
1:AU:65:ILE:CG1	1:AU:459:ILE:HD11	2.42	0.50
1:AW:262:LEU:HD12	1:AW:263:THR:N	2.26	0.50
1:AX:167:ASP:HB3	1:AX:384:ARG:CZ	2.42	0.50
1:AX:258:THR:CG2	1:AX:273:ASN:HA	2.34	0.50
1:A1:458:ASN:ND2	1:AB:126:ILE:HG23	2.27	0.50
1:A2:234:PHE:O	1:A2:238:LEU:HD12	2.12	0.50
1:A3:410:ASN:HD21	1:A3:414:ILE:CG2	2.25	0.50
1:A4:259:VAL:HA	1:A4:324:ALA:CB	2.41	0.50
1:A4:502:ALA:O	1:A4:505:VAL:HG12	2.12	0.50
1:A5:447:SER:OG	1:AK:118:ARG:HG3	2.12	0.50
1:AB:360:VAL:HG23	1:AB:365:PHE:HD1	1.75	0.50
1:AD:225:GLY:HA2	1:AD:244:TYR:CD1	2.47	0.50
1:AF:8:ASN:ND2	1:AF:11:ALA:HB2	2.27	0.50
1:AG:120:LEU:HD21	1:AG:383:LEU:CG	2.31	0.50
1:AG:370:PHE:HA	1:AG:376:VAL:CG1	2.41	0.50
1:AH:133:ASN:HD21	1:AI:50:ILE:HD11	1.77	0.50
1:AH:462:THR:O	1:AH:466:VAL:HG13	2.11	0.50
1:AJ:157:VAL:HG22	1:AJ:451:GLU:OE2	2.12	0.50
1:AJ:233:ARG:HG2	1:AJ:234:PHE:HD1	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:212:GLU:OE2	1:AK:212:GLU:N	2.45	0.50
1:AN:88:ILE:O	1:AN:92:ILE:CD1	2.53	0.50
1:AN:174:MET:HE1	1:AN:398:ALA:CB	2.42	0.50
1:AN:325:SER:CB	1:AN:330:GLY:HA3	2.42	0.50
1:AR:410:ASN:HD21	1:AR:414:ILE:CG2	2.24	0.50
1:AU:342:HIS:ND1	1:AU:343:ALA:N	2.59	0.50
1:AW:369:GLY:HA2	1:AW:374:GLN:NE2	2.25	0.50
1:AX:184:MET:O	1:AX:189:ALA:HB2	2.11	0.50
1:A1:211:ILE:CD1	1:A1:234:PHE:HD2	2.24	0.50
1:A2:201:LYS:HA	1:A2:208:ASP:HB2	1.94	0.50
1:A3:8:ASN:ND2	1:A3:11:ALA:HB2	2.26	0.50
1:A3:229:GLU:O	1:A3:233:ARG:HG3	2.11	0.50
1:A5:244:TYR:C	1:A5:244:TYR:CD2	2.90	0.50
1:A6:54:LEU:HB3	1:A6:470:GLU:HB2	1.94	0.50
1:A6:480:GLU:O	1:A6:480:GLU:HG2	2.12	0.50
1:A7:146:GLU:OE1	1:A7:156:THR:HG21	2.12	0.50
1:A8:363:VAL:HG22	1:A8:364:ASN:OD1	2.12	0.50
1:A9:35:GLY:O	1:A9:476:VAL:HG12	2.12	0.50
1:AA:81:ALA:CB	1:AA:138:LEU:HD11	2.41	0.50
1:AB:175:GLU:HG2	1:AB:378:GLU:CG	2.31	0.50
1:AB:186:ALA:HB2	1:AB:334:PHE:HB2	1.93	0.50
1:AC:173:ARG:HD2	1:AC:357:ASP:HA	1.94	0.50
1:AC:211:ILE:HD11	1:AC:238:LEU:HD21	1.93	0.50
1:AC:369:GLY:HA2	1:AC:374:GLN:NE2	2.26	0.50
1:AC:510:LEU:N	1:AC:510:LEU:HD23	2.27	0.50
1:AD:120:LEU:HD23	1:AD:124:ASP:OD2	2.12	0.50
1:AE:56:SER:O	1:AE:60:ASN:OD1	2.30	0.50
1:AE:146:GLU:CD	1:AK:421:LEU:HD21	2.37	0.50
1:AE:352:ARG:HD2	1:AE:356:ARG:O	2.12	0.50
1:AE:410:ASN:HD21	1:AE:414:ILE:CG2	2.25	0.50
1:AE:463:GLN:HA	1:AE:466:VAL:HG22	1.92	0.50
1:AF:38:ILE:HD11	1:AF:44:ASP:HB3	1.93	0.50
1:AF:65:ILE:CG1	1:AF:459:ILE:HD11	2.42	0.50
1:AG:61:LEU:O	1:AG:65:ILE:HG13	2.12	0.50
1:AG:410:ASN:HD21	1:AG:414:ILE:CG2	2.25	0.50
1:AH:224:ILE:HD11	1:AH:246:VAL:HG22	1.94	0.50
1:AK:262:LEU:HD12	1:AK:263:THR:N	2.26	0.50
1:AK:353:THR:HG23	1:AK:433:SER:CB	2.35	0.50
1:AL:140:GLY:HA3	1:AL:163:SER:HB2	1.93	0.50
1:AN:120:LEU:HD13	1:AN:387:ARG:CG	2.42	0.50
1:AN:342:HIS:ND1	1:AN:343:ALA:N	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:117:GLN:HE22	1:AO:387:ARG:HD2	1.77	0.50
1:AO:251:GLY:H	1:AO:333:ASN:H	1.60	0.50
1:AO:263:THR:HG21	1:AO:268:GLU:HG3	1.94	0.50
1:AO:395:ALA:CB	1:AO:414:ILE:HG23	2.42	0.50
1:AP:99:ALA:HB2	1:AP:112:LEU:HD22	1.93	0.50
1:AQ:4:ARG:HH11	1:AV:472:GLN:HA	1.75	0.50
1:AR:112:LEU:CD1	1:AX:46:SER:HB2	2.41	0.50
1:AR:363:VAL:HG22	1:AR:364:ASN:OD1	2.11	0.50
1:AS:61:LEU:HB3	1:AS:463:GLN:HB2	1.92	0.50
1:AS:511:ARG:HG3	1:AS:512:LEU:N	2.26	0.50
1:AU:167:ASP:HA	1:AU:384:ARG:CB	2.42	0.50
1:AU:246:VAL:HG22	1:AU:346:GLY:HA3	1.92	0.50
1:AV:502:ALA:O	1:AV:505:VAL:HG12	2.11	0.50
1:AW:186:ALA:HB2	1:AW:334:PHE:HB2	1.93	0.50
1:AX:337:ILE:HG22	1:AX:342:HIS:HB2	1.94	0.50
1:A2:122:GLU:CD	1:AM:454:THR:HB	2.37	0.49
1:A2:161:ILE:HG23	1:A2:445:MET:HE1	1.94	0.49
1:A3:15:HIS:O	1:A3:19:VAL:HG12	2.12	0.49
1:A3:189:ALA:O	1:A3:192:ASN:HB2	2.11	0.49
1:A4:65:ILE:CG1	1:A4:459:ILE:HD11	2.42	0.49
1:A5:38:ILE:HG21	1:A5:48:MET:HB2	1.94	0.49
1:A5:184:MET:HE1	1:A5:345:ILE:HG12	1.94	0.49
1:A5:218:THR:O	1:A5:315:ARG:HD3	2.12	0.49
1:A5:303:ILE:HA	1:AD:234:PHE:CZ	2.47	0.49
1:A7:207:ASN:OD1	1:A7:207:ASN:C	2.54	0.49
1:A8:264:ILE:HG12	1:A8:319:VAL:CG2	2.42	0.49
1:A9:201:LYS:HB2	1:A9:359:ILE:HG13	1.92	0.49
1:A9:325:SER:CB	1:A9:330:GLY:HA3	2.42	0.49
1:AB:429:ASP:OD1	1:AH:153:SER:HB3	2.12	0.49
1:AD:212:GLU:OE1	1:AD:212:GLU:HA	2.11	0.49
1:AF:24:ASP:HB3	1:AF:488:TYR:CE2	2.47	0.49
1:AF:54:LEU:HB3	1:AF:470:GLU:HB2	1.94	0.49
1:AF:325:SER:CB	1:AF:330:GLY:HA3	2.42	0.49
1:AG:251:GLY:H	1:AG:332:GLY:CA	2.14	0.49
1:AH:189:ALA:O	1:AH:192:ASN:HB2	2.11	0.49
1:AH:203:VAL:HG21	1:AH:209:TYR:HD1	1.77	0.49
1:AI:231:ILE:HG21	1:AI:242:ALA:HB2	1.93	0.49
1:AK:183:GLY:O	1:AK:188:ALA:HB3	2.12	0.49
1:AL:167:ASP:HB3	1:AL:384:ARG:CZ	2.42	0.49
1:AL:175:GLU:HG2	1:AL:378:GLU:CG	2.30	0.49
1:AL:447:SER:OG	1:AP:118:ARG:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:54:LEU:HB3	1:AN:470:GLU:HB2	1.93	0.49
1:AN:291:VAL:HG23	1:AN:295:THR:HG23	1.93	0.49
1:AO:120:LEU:HD11	1:AO:166:SER:CB	2.35	0.49
1:AP:201:LYS:HD3	2:AP:602:P8E:O1A	2.12	0.49
1:AQ:129:THR:HG21	1:AR:155:THR:HG23	1.94	0.49
1:AR:33:SER:HB2	1:AU:17:VAL:CG2	2.38	0.49
1:AR:293:ASP:OD2	1:AR:293:ASP:C	2.55	0.49
1:AS:174:MET:HE1	1:AS:398:ALA:HB2	1.93	0.49
1:AS:249:THR:CG2	1:AS:405:ALA:HB3	2.42	0.49
1:AS:454:THR:HB	1:AT:122:GLU:CD	2.37	0.49
1:AT:201:LYS:HD3	2:AT:602:P8E:O1A	2.11	0.49
1:AU:352:ARG:HD2	1:AU:356:ARG:O	2.11	0.49
1:AV:325:SER:CB	1:AV:330:GLY:HA3	2.42	0.49
1:AW:179:PHE:CZ	1:AW:344:VAL:HG13	2.45	0.49
1:AX:88:ILE:O	1:AX:92:ILE:CD1	2.54	0.49
1:AX:410:ASN:HD21	1:AX:414:ILE:CG2	2.25	0.49
1:A1:263:THR:HG22	1:A1:268:GLU:HG3	1.93	0.49
1:A1:421:LEU:O	1:A1:421:LEU:HD12	2.12	0.49
1:A2:200:PHE:CE1	1:A2:211:ILE:HD12	2.47	0.49
1:A2:212:GLU:OE2	1:AV:305:GLY:HA3	2.12	0.49
1:A4:102:ASP:OD2	1:AT:145:LYS:HA	2.12	0.49
1:A4:179:PHE:CZ	1:A4:344:VAL:HG13	2.47	0.49
1:A5:74:MET:HE3	1:A5:137:MET:SD	2.52	0.49
1:A5:184:MET:HE1	1:A5:345:ILE:HD11	1.94	0.49
1:A5:227:LEU:O	1:A5:231:ILE:HG13	2.12	0.49
1:A6:214:VAL:HG11	1:A6:227:LEU:HB2	1.92	0.49
1:A6:449:GLN:HE21	1:AP:42:ALA:HB2	1.76	0.49
1:A7:155:THR:HG23	1:AJ:129:THR:HG21	1.93	0.49
1:A7:234:PHE:N	1:A7:234:PHE:CD1	2.80	0.49
1:A8:17:VAL:CG2	1:AS:33:SER:HB2	2.37	0.49
1:A8:445:MET:HA	1:A8:445:MET:CE	2.34	0.49
1:A9:448:VAL:HG22	1:AA:118:ARG:NH2	2.26	0.49
1:AC:17:VAL:CG2	1:AO:33:SER:HB2	2.39	0.49
1:AC:179:PHE:HD1	1:AC:184:MET:CE	2.25	0.49
1:AC:511:ARG:HG3	1:AC:512:LEU:N	2.25	0.49
1:AD:172:VAL:O	1:AD:380:THR:HA	2.12	0.49
1:AD:263:THR:HG22	1:AD:268:GLU:HG3	1.94	0.49
1:AE:328:VAL:HG12	1:AE:329:PHE:HD1	1.76	0.49
1:AH:118:ARG:HG3	1:AI:447:SER:OG	2.12	0.49
1:AH:122:GLU:CD	1:AI:454:THR:HB	2.37	0.49
1:AJ:383:LEU:HA	1:AJ:430:MET:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:451:GLU:O	1:AN:122:GLU:OE2	2.30	0.49
1:AL:263:THR:HG21	1:AL:268:GLU:HG3	1.93	0.49
1:AL:363:VAL:HG22	1:AL:364:ASN:OD1	2.12	0.49
1:AM:89:LEU:HA	1:AM:92:ILE:HD12	1.93	0.49
1:AM:421:LEU:HD21	1:AU:146:GLU:CD	2.37	0.49
1:AQ:65:ILE:CG1	1:AQ:459:ILE:HD11	2.42	0.49
1:AR:225:GLY:HA2	1:AR:244:TYR:CD1	2.47	0.49
1:AS:186:ALA:HB2	1:AS:334:PHE:HB2	1.92	0.49
1:AS:284:LEU:O	1:AS:288:ILE:HG12	2.13	0.49
1:AT:82:MET:HE1	1:AT:441:ILE:CG2	2.28	0.49
1:AT:369:GLY:HA2	1:AT:374:GLN:NE2	2.28	0.49
1:AU:263:THR:HG22	1:AU:268:GLU:HG3	1.93	0.49
1:AV:149:ILE:HD13	1:AV:157:VAL:HG12	1.93	0.49
1:AW:61:LEU:O	1:AW:65:ILE:HG13	2.11	0.49
1:AX:284:LEU:O	1:AX:288:ILE:HG12	2.13	0.49
1:A1:214:VAL:HG11	1:A1:227:LEU:HB2	1.94	0.49
1:A1:294:ARG:NH2	1:AI:206:VAL:HG11	2.27	0.49
1:A1:475:ASP:HB2	1:AI:4:ARG:HG2	1.93	0.49
1:A1:490:ILE:HD11	1:AH:507:GLN:HB2	1.94	0.49
1:A2:291:VAL:HG23	1:A2:295:THR:HG23	1.93	0.49
1:A2:363:VAL:HG22	1:A2:364:ASN:OD1	2.12	0.49
1:A2:395:ALA:HB2	1:A2:414:ILE:HG23	1.93	0.49
1:A2:495:GLY:O	1:A2:499:MET:HG3	2.12	0.49
1:A3:17:VAL:CG2	1:AL:33:SER:HB2	2.40	0.49
1:A5:8:ASN:HB3	1:A5:11:ALA:HB3	1.95	0.49
1:A5:138:LEU:H	1:A5:138:LEU:HD12	1.77	0.49
1:A5:370:PHE:HA	1:A5:376:VAL:CG1	2.41	0.49
1:A7:259:VAL:CG1	1:A7:262:LEU:HB2	2.41	0.49
1:A8:167:ASP:HA	1:A8:384:ARG:CB	2.40	0.49
1:A9:40:LYS:C	1:A9:48:MET:HE1	2.38	0.49
1:AA:231:ILE:HG21	1:AA:242:ALA:HB2	1.93	0.49
1:AC:511:ARG:HH12	1:AC:512:LEU:HD12	1.77	0.49
1:AF:126:ILE:HG23	1:AN:458:ASN:ND2	2.28	0.49
1:AF:429:ASP:OD1	1:AS:153:SER:HB3	2.12	0.49
1:AG:102:ASP:OD2	1:AJ:145:LYS:HA	2.12	0.49
1:AG:122:GLU:OE2	1:AP:454:THR:HB	2.12	0.49
1:AG:184:MET:O	1:AG:189:ALA:HB2	2.13	0.49
1:AH:279:ASP:HB3	1:AH:301:LEU:HD11	1.92	0.49
1:AI:92:ILE:CG2	1:AI:116:ILE:HD13	2.41	0.49
1:AI:480:GLU:O	1:AI:480:GLU:HG2	2.12	0.49
1:AK:56:SER:O	1:AK:60:ASN:OD1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:88:ILE:O	1:AK:92:ILE:CD1	2.53	0.49
1:AL:171:HIS:CE1	1:AL:382:ASN:HB3	2.47	0.49
1:AM:88:ILE:O	1:AM:92:ILE:CD1	2.54	0.49
1:AM:490:ILE:CG2	1:AR:510:LEU:HD12	2.43	0.49
1:AN:258:THR:CG2	1:AN:273:ASN:HA	2.28	0.49
1:AQ:212:GLU:OE1	1:AQ:212:GLU:HA	2.11	0.49
1:AR:167:ASP:CA	1:AR:384:ARG:HB2	2.41	0.49
1:AT:175:GLU:HG2	1:AT:378:GLU:CG	2.31	0.49
1:AU:93:LYS:CE	1:AX:60:ASN:HD21	2.22	0.49
1:AU:363:VAL:HG22	1:AU:364:ASN:OD1	2.12	0.49
1:AX:5:ILE:HD12	1:AX:5:ILE:O	2.12	0.49
1:AX:250:GLY:O	1:AX:306:ARG:HD2	2.12	0.49
1:A2:122:GLU:OE2	1:AM:454:THR:HB	2.12	0.49
1:A3:146:GLU:OE2	1:A3:156:THR:HG21	2.13	0.49
1:A4:166:SER:O	1:A4:383:LEU:HB3	2.12	0.49
1:A4:189:ALA:HA	1:A4:192:ASN:ND2	2.28	0.49
1:A5:88:ILE:O	1:A5:92:ILE:CD1	2.51	0.49
1:A5:363:VAL:HG22	1:A5:364:ASN:OD1	2.13	0.49
1:A6:291:VAL:HG23	1:A6:295:THR:HG23	1.93	0.49
1:A6:325:SER:CB	1:A6:330:GLY:HA3	2.42	0.49
1:A7:99:ALA:CB	1:A7:112:LEU:HD23	2.35	0.49
1:A8:370:PHE:HA	1:A8:376:VAL:CG1	2.42	0.49
1:A9:189:ALA:O	1:A9:192:ASN:HB2	2.12	0.49
1:AC:189:ALA:O	1:AC:192:ASN:HB2	2.12	0.49
1:AD:189:ALA:O	1:AD:192:ASN:HB2	2.11	0.49
1:AE:46:SER:HB2	1:AN:112:LEU:CD1	2.42	0.49
1:AE:189:ALA:O	1:AE:192:ASN:HB2	2.12	0.49
1:AF:201:LYS:HB2	1:AF:359:ILE:HD11	1.93	0.49
1:AF:258:THR:CG2	1:AF:273:ASN:HA	2.28	0.49
1:AH:157:VAL:HG11	1:AH:452:LEU:CD2	2.43	0.49
1:AL:251:GLY:H	1:AL:332:GLY:CA	2.17	0.49
1:AL:448:VAL:HG22	1:AP:118:ARG:NH2	2.28	0.49
1:AM:352:ARG:HB3	1:AM:358:ILE:HD11	1.95	0.49
1:AP:61:LEU:HB3	1:AP:463:GLN:HB2	1.93	0.49
1:AP:203:VAL:HG21	1:AP:209:TYR:CD1	2.41	0.49
1:AP:353:THR:HG23	1:AP:433:SER:CB	2.34	0.49
1:AQ:201:LYS:HA	1:AQ:208:ASP:CB	2.41	0.49
1:AR:281:ASP:OD1	1:AR:283:ARG:HG2	2.11	0.49
1:AT:470:GLU:HA	1:AT:473:ILE:CG2	2.42	0.49
1:AV:249:THR:CG2	1:AV:405:ALA:HB3	2.43	0.49
1:AV:337:ILE:HG22	1:AV:342:HIS:CG	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:189:ALA:O	1:AW:192:ASN:HB2	2.12	0.49
1:AX:230:ILE:HG13	1:AX:231:ILE:N	2.28	0.49
1:AX:395:ALA:HB2	1:AX:414:ILE:HG23	1.93	0.49
1:A2:129:THR:HG21	1:AM:155:THR:HG23	1.93	0.49
1:A3:140:GLY:HA3	1:A3:163:SER:HB2	1.94	0.49
1:A4:263:THR:HG22	1:A4:268:GLU:HG3	1.94	0.49
1:A4:302:ASP:HB3	1:A4:308:ASN:ND2	2.27	0.49
1:A4:421:LEU:HD12	1:A4:421:LEU:O	2.13	0.49
1:A5:445:MET:HA	1:A5:445:MET:CE	2.36	0.49
1:A6:161:ILE:HG23	1:A6:445:MET:HE1	1.94	0.49
1:A6:187:SER:HB3	1:A6:335:ALA:HB1	1.93	0.49
1:A7:179:PHE:HB2	1:A7:347:ARG:HG2	1.93	0.49
1:A8:120:LEU:HD21	1:A8:166:SER:OG	2.12	0.49
1:A8:136:GLN:HB3	1:A8:139:SER:OG	2.12	0.49
1:A8:246:VAL:C	1:A8:247:MET:HG2	2.37	0.49
1:A9:118:ARG:NH2	1:AH:448:VAL:HG22	2.27	0.49
1:A9:371:HIS:CB	1:A9:374:GLN:HG3	2.31	0.49
1:AB:258:THR:CG2	1:AB:273:ASN:HA	2.26	0.49
1:AB:259:VAL:HA	1:AB:324:ALA:CB	2.41	0.49
1:AB:421:LEU:HD12	1:AB:421:LEU:O	2.12	0.49
1:AC:122:GLU:OE2	1:AX:454:THR:HB	2.12	0.49
1:AE:167:ASP:HA	1:AE:384:ARG:CB	2.41	0.49
1:AE:247:MET:HG2	1:AE:310:HIS:HD1	1.76	0.49
1:AH:487:LYS:HD2	1:AK:6:ASN:O	2.11	0.49
1:AJ:366:SER:HB2	1:AJ:374:GLN:OE1	2.13	0.49
1:AK:186:ALA:HB3	1:AK:334:PHE:O	2.12	0.49
1:AM:384:ARG:HD2	1:AM:387:ARG:NH2	2.28	0.49
1:AO:149:ILE:HD11	1:AO:157:VAL:CG2	2.42	0.49
1:AO:357:ASP:HB2	1:AQ:271:THR:O	2.11	0.49
1:AP:211:ILE:HD13	1:AP:234:PHE:HD1	1.77	0.49
1:AP:263:THR:HG22	1:AP:268:GLU:HG3	1.92	0.49
1:AQ:104:GLN:HB3	1:AQ:108:SER:OG	2.13	0.49
1:AR:5:ILE:HD13	1:AR:506:GLN:HG2	1.94	0.49
1:AR:167:ASP:HA	1:AR:384:ARG:CB	2.41	0.49
1:AR:259:VAL:HA	1:AR:324:ALA:CB	2.43	0.49
1:AT:211:ILE:CD1	1:AT:234:PHE:HD2	2.25	0.49
1:AT:353:THR:HG23	1:AT:433:SER:CB	2.37	0.49
1:AU:8:ASN:ND2	1:AU:11:ALA:HB2	2.28	0.49
1:AU:186:ALA:HB3	1:AU:334:PHE:O	2.12	0.49
1:AU:249:THR:CG2	1:AU:405:ALA:HB3	2.43	0.49
1:AX:259:VAL:HA	1:AX:324:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:149:ILE:HD13	1:A3:157:VAL:HG12	1.94	0.49
1:A3:251:GLY:H	1:A3:332:GLY:CA	2.19	0.49
1:A3:259:VAL:HA	1:A3:324:ALA:HB2	1.95	0.49
1:A3:369:GLY:HA2	1:A3:374:GLN:NE2	2.27	0.49
1:A3:422:LYS:C	1:A3:426:ILE:HD12	2.37	0.49
1:A4:54:LEU:HB3	1:A4:470:GLU:HB2	1.94	0.49
1:A5:167:ASP:HA	1:A5:384:ARG:CB	2.43	0.49
1:A5:291:VAL:HG23	1:A5:295:THR:HG23	1.94	0.49
1:A6:284:LEU:O	1:A6:288:ILE:HG12	2.11	0.49
1:A6:475:ASP:HB2	1:AP:4:ARG:HG2	1.94	0.49
1:A7:268:GLU:HG3	1:A7:268:GLU:O	2.13	0.49
1:A8:215:ARG:HB3	1:A8:215:ARG:HH11	1.77	0.49
1:A8:382:ASN:O	1:A8:430:MET:HE1	2.12	0.49
1:A8:447:SER:OG	1:AS:118:ARG:HG3	2.12	0.49
1:A8:502:ALA:O	1:A8:505:VAL:HG22	2.11	0.49
1:AA:249:THR:CG2	1:AA:405:ALA:HB3	2.41	0.49
1:AA:371:HIS:CB	1:AA:374:GLN:HG3	2.33	0.49
1:AC:6:ASN:HD22	1:AR:36:LEU:CD2	2.26	0.49
1:AC:60:ASN:HD21	1:AR:93:LYS:CD	2.26	0.49
1:AC:218:THR:O	1:AC:315:ARG:HD3	2.12	0.49
1:AC:484:ASN:OD1	1:AC:488:TYR:HE2	1.96	0.49
1:AD:145:LYS:HA	1:AI:102:ASP:OD2	2.12	0.49
1:AD:189:ALA:HB3	1:AD:343:ALA:HB3	1.94	0.49
1:AE:146:GLU:HB2	1:AE:158:LYS:HD2	1.95	0.49
1:AE:357:ASP:HB2	1:AK:271:THR:O	2.12	0.49
1:AF:167:ASP:HA	1:AF:384:ARG:CB	2.38	0.49
1:AG:122:GLU:OE1	1:AP:454:THR:HB	2.13	0.49
1:AG:155:THR:HG23	1:AM:129:THR:CG2	2.42	0.49
1:AH:179:PHE:CZ	1:AH:344:VAL:HG13	2.47	0.49
1:AI:61:LEU:O	1:AI:65:ILE:HG13	2.12	0.49
1:AJ:38:ILE:HD11	1:AJ:44:ASP:HB3	1.94	0.49
1:AJ:233:ARG:HG2	1:AJ:234:PHE:CD1	2.47	0.49
1:AJ:233:ARG:HD2	1:AJ:234:PHE:HE1	1.77	0.49
1:AL:328:VAL:HG12	1:AL:329:PHE:HD1	1.76	0.49
1:AN:61:LEU:O	1:AN:65:ILE:HG13	2.12	0.49
1:AO:174:MET:HE3	1:AO:398:ALA:HA	1.94	0.49
1:AP:88:ILE:O	1:AP:92:ILE:CD1	2.51	0.49
1:AP:201:LYS:HA	1:AP:208:ASP:CB	2.42	0.49
1:AQ:122:GLU:OE2	1:AR:454:THR:HB	2.12	0.49
1:AR:211:ILE:CD1	1:AR:234:PHE:HD1	2.25	0.49
1:AS:100:ALA:HB2	1:AS:424:ALA:HB1	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:390:PHE:CE2	1:AS:417:GLY:HA2	2.47	0.49
1:AT:92:ILE:HG23	1:AT:116:ILE:CG1	2.32	0.49
1:AW:88:ILE:O	1:AW:92:ILE:CD1	2.54	0.49
1:AW:325:SER:CB	1:AW:330:GLY:HA3	2.42	0.49
1:AX:167:ASP:CA	1:AX:384:ARG:HB2	2.41	0.49
1:AX:509:VAL:HG13	1:AX:510:LEU:H	1.78	0.49
1:A2:302:ASP:HB3	1:A2:308:ASN:ND2	2.27	0.49
1:A2:325:SER:CB	1:A2:330:GLY:HA3	2.43	0.49
1:A3:284:LEU:O	1:A3:288:ILE:HG12	2.13	0.49
1:A6:447:SER:OG	1:AW:118:ARG:HG3	2.13	0.49
1:A6:451:GLU:CA	1:AW:122:GLU:OE1	2.55	0.49
1:A8:65:ILE:CG1	1:A8:459:ILE:HD11	2.42	0.49
1:A9:269:ILE:O	1:AK:356:ARG:HD2	2.12	0.49
1:AA:421:LEU:HD21	1:AN:146:GLU:CD	2.38	0.49
1:AE:65:ILE:CG1	1:AE:459:ILE:HD11	2.42	0.49
1:AE:175:GLU:HA	1:AE:377:ALA:O	2.12	0.49
1:AG:33:SER:HB2	1:AP:17:VAL:CG2	2.41	0.49
1:AG:203:VAL:HG11	1:AG:238:LEU:HD22	1.93	0.49
1:AH:38:ILE:HD12	1:AH:474:ARG:HA	1.94	0.49
1:AH:325:SER:CB	1:AH:330:GLY:HA3	2.43	0.49
1:AI:214:VAL:HG11	1:AI:227:LEU:HA	1.94	0.49
1:AL:216:ILE:HD13	1:AL:223:GLY:HA2	1.94	0.49
1:AL:264:ILE:HG22	1:AL:319:VAL:CB	2.38	0.49
1:AM:183:GLY:O	1:AM:188:ALA:HB3	2.13	0.49
1:AM:294:ARG:NH2	1:AU:206:VAL:HG11	2.27	0.49
1:AM:325:SER:CB	1:AM:330:GLY:HA3	2.43	0.49
1:AO:68:ALA:HB3	1:AO:456:ILE:CD1	2.39	0.49
1:AO:74:MET:HE1	1:AO:142:PHE:CZ	2.48	0.49
1:AO:353:THR:HG23	1:AO:433:SER:CB	2.36	0.49
1:AP:259:VAL:HB	1:AP:272:VAL:HG22	1.95	0.49
1:AP:325:SER:CB	1:AP:330:GLY:HA3	2.43	0.49
1:AQ:149:ILE:HD12	1:AQ:455:THR:HG21	1.95	0.49
1:AQ:163:SER:OG	1:AQ:168:LYS:HD3	2.13	0.49
1:AR:61:LEU:HB3	1:AR:463:GLN:HB2	1.94	0.49
1:AS:512:LEU:HD23	1:AT:496:SER:HB2	1.94	0.49
1:AT:211:ILE:HD11	1:AT:238:LEU:HD11	1.95	0.49
1:AT:445:MET:HA	1:AT:445:MET:CE	2.36	0.49
1:AX:179:PHE:CZ	1:AX:344:VAL:HG13	2.45	0.49
1:A1:167:ASP:HA	1:A1:384:ARG:CB	2.42	0.49
1:A1:189:ALA:HA	1:A1:192:ASN:ND2	2.28	0.49
1:A2:189:ALA:O	1:A2:192:ASN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:112:LEU:CD1	1:AS:46:SER:HB2	2.43	0.49
1:A4:163:SER:OG	1:A4:168:LYS:HD3	2.12	0.49
1:A5:212:GLU:OE2	1:A5:212:GLU:N	2.45	0.49
1:A5:448:VAL:HG22	1:AK:118:ARG:NH2	2.28	0.49
1:A8:212:GLU:HG3	1:AS:278:ASN:CG	2.38	0.49
1:A8:251:GLY:H	1:A8:333:ASN:H	1.60	0.49
1:AG:130:THR:CB	1:AG:138:LEU:HD12	2.43	0.49
1:AG:201:LYS:HB2	1:AG:359:ILE:CG1	2.42	0.49
1:AG:234:PHE:CD2	1:AM:303:ILE:HD12	2.46	0.49
1:AH:167:ASP:CA	1:AH:384:ARG:HB2	2.40	0.49
1:AM:225:GLY:HA2	1:AM:244:TYR:CD1	2.47	0.49
1:AO:201:LYS:HB2	1:AO:359:ILE:CG1	2.42	0.49
1:AO:370:PHE:HA	1:AO:376:VAL:CG1	2.41	0.49
1:AP:179:PHE:CZ	1:AP:344:VAL:HG13	2.46	0.49
1:AP:227:LEU:O	1:AP:231:ILE:HG13	2.12	0.49
1:AQ:122:GLU:CD	1:AR:454:THR:HB	2.38	0.49
1:AR:184:MET:HE3	1:AR:369:GLY:HA3	1.94	0.49
1:AR:204:ASN:HD21	1:AR:207:ASN:HB2	1.78	0.49
1:AT:186:ALA:HB2	1:AT:334:PHE:HB2	1.94	0.49
1:AT:201:LYS:HB2	1:AT:359:ILE:CG1	2.43	0.49
1:AX:92:ILE:CG2	1:AX:116:ILE:HG23	2.43	0.49
1:AX:196:VAL:HG12	1:AX:364:ASN:HB3	1.93	0.49
1:AX:278:ASN:OD1	1:AX:305:GLY:HA3	2.12	0.49
1:A3:244:TYR:C	1:A3:244:TYR:CD2	2.91	0.49
1:A3:352:ARG:HD2	1:A3:356:ARG:O	2.12	0.49
1:A6:155:THR:HG23	1:AW:129:THR:HG21	1.95	0.49
1:A6:161:ILE:HD13	1:A6:445:MET:HE1	1.94	0.49
1:A6:186:ALA:HB2	1:A6:334:PHE:HB2	1.94	0.49
1:A7:342:HIS:HE1	1:A7:344:VAL:CG2	2.25	0.49
1:A8:173:ARG:HD2	1:A8:357:ASP:HA	1.95	0.49
1:A8:175:GLU:HG2	1:A8:378:GLU:CG	2.30	0.49
1:AA:167:ASP:HB3	1:AA:384:ARG:CZ	2.43	0.49
1:AA:174:MET:CE	1:AA:398:ALA:HA	2.43	0.49
1:AB:366:SER:HB2	1:AB:374:GLN:OE1	2.13	0.49
1:AB:502:ALA:O	1:AB:505:VAL:HG12	2.11	0.49
1:AC:463:GLN:HA	1:AC:466:VAL:HG22	1.94	0.49
1:AD:426:ILE:HD12	1:AD:426:ILE:H	1.78	0.49
1:AF:90:ASP:C	1:AF:90:ASP:OD1	2.56	0.49
1:AF:92:ILE:HD12	1:AF:92:ILE:H	1.77	0.49
1:AF:93:LYS:CD	1:AS:60:ASN:HD21	2.25	0.49
1:AF:352:ARG:HB3	1:AF:358:ILE:HD11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:110:ARG:CZ	1:AG:110:ARG:HB2	2.43	0.49
1:AH:263:THR:CG2	1:AH:268:GLU:HG3	2.43	0.49
1:AH:369:GLY:HA2	1:AH:374:GLN:NE2	2.27	0.49
1:AJ:92:ILE:CG2	1:AJ:116:ILE:HG12	2.22	0.49
1:AJ:189:ALA:O	1:AJ:192:ASN:HB2	2.12	0.49
1:AN:395:ALA:CB	1:AN:414:ILE:HG23	2.43	0.49
1:AN:487:LYS:HE2	1:AS:6:ASN:O	2.13	0.49
1:AO:60:ASN:HD21	1:AQ:93:LYS:CD	2.25	0.49
1:AO:60:ASN:HD21	1:AQ:93:LYS:CE	2.26	0.49
1:AO:328:VAL:HG12	1:AO:329:PHE:HD1	1.78	0.49
1:AQ:167:ASP:HA	1:AQ:384:ARG:CB	2.40	0.49
1:AQ:206:VAL:HG11	1:AV:294:ARG:NH2	2.28	0.49
1:AR:149:ILE:HD13	1:AR:157:VAL:CG1	2.43	0.49
1:AT:262:LEU:HD12	1:AT:263:THR:N	2.28	0.49
1:AU:325:SER:CB	1:AU:330:GLY:HA3	2.43	0.49
1:AV:361:SER:HA	1:AV:365:PHE:CD2	2.48	0.49
1:AW:166:SER:O	1:AW:383:LEU:HB3	2.13	0.49
1:AW:384:ARG:HD2	1:AW:387:ARG:NH2	2.28	0.49
1:AX:166:SER:O	1:AX:383:LEU:HB3	2.13	0.49
1:A1:382:ASN:O	1:A1:430:MET:HE1	2.13	0.49
1:A1:449:GLN:HE21	1:AI:42:ALA:HB2	1.77	0.49
1:A2:421:LEU:HD12	1:A2:421:LEU:O	2.13	0.49
1:A3:458:ASN:HB2	1:AL:84:GLU:HG2	1.94	0.49
1:A5:155:THR:HG23	1:AK:129:THR:CG2	2.43	0.49
1:A7:284:LEU:O	1:A7:288:ILE:HG12	2.12	0.49
1:A9:386:VAL:HG22	1:A9:427:VAL:HG22	1.94	0.49
1:AA:99:ALA:CB	1:AA:112:LEU:HD22	2.24	0.49
1:AB:211:ILE:HD11	1:AB:238:LEU:HD21	1.95	0.49
1:AC:61:LEU:HD12	1:AC:463:GLN:HA	1.95	0.49
1:AC:201:LYS:HD3	2:AC:602:P8E:O1A	2.12	0.49
1:AD:300:SER:O	1:AD:301:LEU:HD23	2.13	0.49
1:AE:184:MET:O	1:AE:189:ALA:HB2	2.13	0.49
1:AH:129:THR:CG2	1:AI:155:THR:HG23	2.43	0.49
1:AI:122:GLU:CD	1:AO:454:THR:HB	2.38	0.49
1:AI:471:SER:O	1:AI:475:ASP:HB2	2.13	0.49
1:AJ:155:THR:HG23	1:AU:129:THR:CG2	2.43	0.49
1:AJ:454:THR:HB	1:AU:122:GLU:CD	2.38	0.49
1:AK:352:ARG:HD2	1:AK:356:ARG:O	2.13	0.49
1:AL:173:ARG:HD2	1:AL:357:ASP:HA	1.94	0.49
1:AL:328:VAL:C	1:AL:329:PHE:CD1	2.91	0.49
1:AL:353:THR:HG23	1:AL:433:SER:CB	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:395:ALA:CB	1:AL:414:ILE:HG23	2.43	0.49
1:AL:422:LYS:O	1:AL:426:ILE:CD1	2.52	0.49
1:AM:92:ILE:CG2	1:AM:116:ILE:HG12	2.32	0.49
1:AM:209:TYR:HE1	1:AM:237:THR:HG22	1.77	0.49
1:AN:511:ARG:HH12	1:AN:512:LEU:HD13	1.78	0.49
1:AP:92:ILE:HG23	1:AP:116:ILE:HG12	1.95	0.49
1:AP:211:ILE:CD1	1:AP:234:PHE:HD1	2.25	0.49
1:AQ:61:LEU:HB3	1:AQ:463:GLN:HB2	1.93	0.49
1:AR:284:LEU:O	1:AR:288:ILE:HG12	2.13	0.49
1:AT:179:PHE:CZ	1:AT:344:VAL:HG13	2.48	0.49
1:AU:163:SER:OG	1:AU:168:LYS:HD3	2.13	0.49
1:AU:369:GLY:HA2	1:AU:374:GLN:NE2	2.28	0.49
1:AW:54:LEU:HB3	1:AW:470:GLU:HB2	1.95	0.49
1:AW:234:PHE:HB3	1:AW:238:LEU:HD11	1.91	0.49
1:AX:167:ASP:HA	1:AX:384:ARG:CB	2.39	0.49
1:A1:97:VAL:HG21	1:AI:60:ASN:ND2	2.28	0.48
1:A1:108:SER:O	1:A1:112:LEU:HD12	2.13	0.48
1:A1:281:ASP:OD1	1:A1:283:ARG:HG2	2.12	0.48
1:A2:102:ASP:OD2	1:AR:145:LYS:HA	2.13	0.48
1:A5:83:ASP:HB2	1:A5:442:ARG:HH21	1.75	0.48
1:A5:99:ALA:CB	1:A5:112:LEU:HD22	2.32	0.48
1:A7:50:ILE:HD12	1:AJ:133:ASN:ND2	2.28	0.48
1:A7:61:LEU:HD12	1:A7:463:GLN:HA	1.95	0.48
1:A7:216:ILE:HG23	1:A7:223:GLY:HA2	1.93	0.48
1:A8:88:ILE:O	1:A8:92:ILE:CD1	2.54	0.48
1:A9:421:LEU:HD21	1:AK:146:GLU:CD	2.38	0.48
1:AD:60:ASN:N	1:AD:60:ASN:HD22	2.11	0.48
1:AE:174:MET:CE	1:AE:398:ALA:HB2	2.43	0.48
1:AF:189:ALA:O	1:AF:192:ASN:HB2	2.13	0.48
1:AF:305:GLY:HA3	1:AN:212:GLU:HG3	1.95	0.48
1:AH:291:VAL:HG23	1:AH:295:THR:HG23	1.95	0.48
1:AH:363:VAL:HG22	1:AH:364:ASN:OD1	2.13	0.48
1:AI:302:ASP:CB	1:AI:308:ASN:HD21	2.24	0.48
1:AJ:92:ILE:HD12	1:AJ:92:ILE:H	1.78	0.48
1:AL:369:GLY:HA2	1:AL:374:GLN:NE2	2.28	0.48
1:AM:510:LEU:HD23	1:AM:510:LEU:N	2.29	0.48
1:AN:82:MET:HE1	1:AN:442:ARG:N	2.27	0.48
1:AN:319:VAL:HG13	1:AN:342:HIS:HD2	1.78	0.48
1:AO:342:HIS:CE1	1:AO:344:VAL:HG23	2.48	0.48
1:AQ:186:ALA:HB3	1:AQ:334:PHE:O	2.12	0.48
1:AR:510:LEU:HD23	1:AR:510:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:81:ALA:HB3	1:AS:138:LEU:HD11	1.95	0.48
1:AS:204:ASN:HD21	1:AS:207:ASN:HB2	1.78	0.48
1:AU:61:LEU:O	1:AU:65:ILE:HG13	2.13	0.48
1:AW:502:ALA:O	1:AW:505:VAL:HG12	2.12	0.48
1:A2:328:VAL:HG12	1:A2:329:PHE:CD1	2.48	0.48
1:A2:448:VAL:O	1:A2:452:LEU:HG	2.14	0.48
1:A2:490:ILE:HD11	1:AQ:507:GLN:HB2	1.94	0.48
1:A3:61:LEU:HB3	1:A3:463:GLN:HB2	1.95	0.48
1:A3:448:VAL:HG22	1:AL:118:ARG:NH2	2.28	0.48
1:A4:303:ILE:HA	1:AF:234:PHE:CE1	2.48	0.48
1:A4:449:GLN:HE21	1:AT:42:ALA:HB2	1.78	0.48
1:A7:292:LYS:HD3	1:A7:297:VAL:O	2.14	0.48
1:A8:183:GLY:O	1:A8:188:ALA:HB3	2.14	0.48
1:AB:291:VAL:HG23	1:AB:295:THR:HG23	1.95	0.48
1:AC:88:ILE:O	1:AC:92:ILE:CD1	2.54	0.48
1:AC:183:GLY:O	1:AC:188:ALA:HB3	2.13	0.48
1:AD:74:MET:HE3	1:AD:137:MET:HE1	1.94	0.48
1:AD:284:LEU:O	1:AD:288:ILE:HG12	2.13	0.48
1:AE:179:PHE:HD1	1:AE:184:MET:CE	2.25	0.48
1:AE:366:SER:HB2	1:AE:374:GLN:OE1	2.12	0.48
1:AF:116:ILE:CD1	1:AF:418:VAL:HG21	2.43	0.48
1:AG:122:GLU:CD	1:AP:454:THR:HB	2.38	0.48
1:AG:186:ALA:HB3	1:AG:334:PHE:O	2.13	0.48
1:AG:200:PHE:HB3	1:AG:203:VAL:HG12	1.96	0.48
1:AG:454:THR:HG21	1:AM:88:ILE:HD11	1.93	0.48
1:AG:471:SER:O	1:AG:475:ASP:HB2	2.14	0.48
1:AL:108:SER:O	1:AL:112:LEU:HD13	2.12	0.48
1:AL:117:GLN:C	1:AL:117:GLN:OE1	2.56	0.48
1:AM:201:LYS:HB2	1:AM:359:ILE:HG13	1.95	0.48
1:AM:421:LEU:HD12	1:AM:421:LEU:O	2.13	0.48
1:AP:291:VAL:HG23	1:AP:295:THR:HG23	1.94	0.48
1:AQ:54:LEU:HB3	1:AQ:470:GLU:HB2	1.94	0.48
1:AQ:82:MET:HE1	1:AQ:442:ARG:CA	2.43	0.48
1:AR:227:LEU:O	1:AR:230:ILE:HG12	2.12	0.48
1:AS:291:VAL:HG23	1:AS:295:THR:HG23	1.94	0.48
1:AU:370:PHE:HA	1:AU:376:VAL:CG1	2.42	0.48
1:AV:20:GLN:O	1:AV:24:ASP:OD1	2.32	0.48
1:AV:74:MET:HB3	1:AV:137:MET:HE1	1.94	0.48
1:AV:183:GLY:O	1:AV:188:ALA:HB3	2.13	0.48
1:AV:281:ASP:OD1	1:AV:283:ARG:HG2	2.12	0.48
1:AW:38:ILE:HD11	1:AW:44:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:325:SER:CB	1:A1:330:GLY:HA3	2.43	0.48
1:A2:75:VAL:CG1	1:A2:445:MET:HG2	2.34	0.48
1:A2:174:MET:CE	1:A2:398:ALA:HA	2.44	0.48
1:A3:172:VAL:O	1:A3:380:THR:HA	2.13	0.48
1:A3:201:LYS:HA	1:A3:208:ASP:HB2	1.95	0.48
1:A3:214:VAL:HG11	1:A3:227:LEU:HB2	1.95	0.48
1:A4:88:ILE:CD1	1:AF:454:THR:HG21	2.38	0.48
1:A5:60:ASN:HD21	1:AH:93:LYS:HG2	1.78	0.48
1:A5:84:GLU:OE1	1:A5:84:GLU:HA	2.12	0.48
1:A7:259:VAL:O	1:A7:271:THR:HG23	2.13	0.48
1:A7:337:ILE:HG22	1:A7:342:HIS:CB	2.43	0.48
1:A7:366:SER:HB2	1:A7:374:GLN:OE1	2.13	0.48
1:A9:103:GLY:CA	1:AK:74:MET:HE2	2.43	0.48
1:A9:129:THR:CG2	1:AH:155:THR:HG23	2.43	0.48
1:A9:186:ALA:HB2	1:A9:334:PHE:HB2	1.93	0.48
1:AA:183:GLY:O	1:AA:188:ALA:HB3	2.14	0.48
1:AB:25:LEU:HD23	1:AB:25:LEU:C	2.38	0.48
1:AB:44:ASP:OD2	1:AB:44:ASP:C	2.56	0.48
1:AC:319:VAL:HG12	1:AC:342:HIS:CD2	2.48	0.48
1:AC:422:LYS:O	1:AC:426:ILE:CD1	2.53	0.48
1:AD:211:ILE:CD1	1:AD:234:PHE:HD2	2.25	0.48
1:AD:366:SER:HB2	1:AD:374:GLN:OE1	2.13	0.48
1:AE:292:LYS:HD3	1:AE:298:GLU:CA	2.42	0.48
1:AF:118:ARG:HG3	1:AN:447:SER:OG	2.12	0.48
1:AI:259:VAL:HA	1:AI:324:ALA:CB	2.44	0.48
1:AJ:369:GLY:HA2	1:AJ:374:GLN:NE2	2.27	0.48
1:AK:211:ILE:CD1	1:AK:234:PHE:HD2	2.26	0.48
1:AK:328:VAL:HG12	1:AK:329:PHE:CD1	2.46	0.48
1:AL:183:GLY:O	1:AL:188:ALA:HB3	2.13	0.48
1:AL:231:ILE:HG21	1:AL:242:ALA:HB2	1.95	0.48
1:AM:167:ASP:CA	1:AM:384:ARG:HB2	2.35	0.48
1:AM:211:ILE:HD13	1:AM:234:PHE:HD1	1.77	0.48
1:AM:410:ASN:HD21	1:AM:414:ILE:CG2	2.25	0.48
1:AQ:231:ILE:HG21	1:AQ:242:ALA:HB2	1.94	0.48
1:AS:86:ILE:HD13	1:AS:439:ASP:OD1	2.12	0.48
1:AU:262:LEU:HD11	1:AU:319:VAL:HG23	1.96	0.48
1:AV:174:MET:CE	1:AV:398:ALA:HA	2.43	0.48
1:AV:189:ALA:O	1:AV:192:ASN:HB2	2.13	0.48
1:AV:201:LYS:HA	1:AV:208:ASP:HB2	1.95	0.48
1:AV:209:TYR:CE2	1:AV:237:THR:HG22	2.48	0.48
1:AV:422:LYS:O	1:AV:426:ILE:CD1	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:174:MET:CE	1:AX:398:ALA:HB2	2.43	0.48
1:AX:371:HIS:CB	1:AX:374:GLN:HG3	2.31	0.48
1:A1:189:ALA:HA	1:A1:192:ASN:CG	2.38	0.48
1:A2:90:ASP:C	1:A2:90:ASP:OD1	2.57	0.48
1:A3:366:SER:HB2	1:A3:374:GLN:OE1	2.13	0.48
1:A4:44:ASP:OD2	1:A4:44:ASP:C	2.55	0.48
1:A4:286:ASN:OD1	1:A4:286:ASN:C	2.57	0.48
1:A5:166:SER:O	1:A5:383:LEU:HB3	2.13	0.48
1:A6:366:SER:HB2	1:A6:374:GLN:OE1	2.14	0.48
1:A7:5:ILE:HD13	1:AL:490:ILE:HG21	1.95	0.48
1:A7:251:GLY:H	1:A7:332:GLY:CA	2.20	0.48
1:A7:320:HIS:NE2	1:A7:340:THR:HA	2.28	0.48
1:A7:354:ASP:OD2	1:A7:354:ASP:C	2.56	0.48
1:A8:42:ALA:HB2	1:AN:449:GLN:NE2	2.28	0.48
1:A8:507:GLN:HB2	1:AK:490:ILE:HD11	1.95	0.48
1:A9:93:LYS:HE2	1:AK:60:ASN:HD21	1.77	0.48
1:AA:102:ASP:HA	1:AA:109:ARG:NH2	2.28	0.48
1:AC:371:HIS:CB	1:AC:374:GLN:HG3	2.33	0.48
1:AD:146:GLU:HG2	1:AI:421:LEU:CD2	2.42	0.48
1:AD:173:ARG:HD2	1:AD:357:ASP:HA	1.94	0.48
1:AE:354:ASP:OD1	1:AE:354:ASP:C	2.56	0.48
1:AE:423:GLY:HA2	1:AE:426:ILE:HD12	1.96	0.48
1:AH:163:SER:OG	1:AH:168:LYS:HD3	2.13	0.48
1:AI:157:VAL:HG11	1:AI:452:LEU:HD21	1.95	0.48
1:AJ:184:MET:HE1	1:AJ:345:ILE:HD11	1.95	0.48
1:AK:258:THR:CG2	1:AK:273:ASN:HA	2.27	0.48
1:AM:116:ILE:HD12	1:AM:418:VAL:HG21	1.95	0.48
1:AM:263:THR:HG22	1:AM:268:GLU:HG3	1.94	0.48
1:AO:510:LEU:HD23	1:AO:510:LEU:N	2.29	0.48
1:AR:65:ILE:CG1	1:AR:459:ILE:HD11	2.43	0.48
1:AR:470:GLU:HA	1:AR:473:ILE:CG2	2.43	0.48
1:AS:258:THR:CG2	1:AS:273:ASN:HA	2.28	0.48
1:AT:78:ALA:O	1:AT:82:MET:HG3	2.14	0.48
1:AT:281:ASP:OD1	1:AT:283:ARG:HG2	2.13	0.48
1:A1:175:GLU:HA	1:A1:377:ALA:O	2.13	0.48
1:A1:259:VAL:HA	1:A1:324:ALA:CB	2.44	0.48
1:A3:342:HIS:NE2	1:A3:344:VAL:HG23	2.27	0.48
1:A5:146:GLU:CD	1:AH:421:LEU:HD21	2.38	0.48
1:A5:146:GLU:HG3	1:A5:156:THR:HG21	1.95	0.48
1:A7:88:ILE:O	1:A7:92:ILE:CD1	2.55	0.48
1:A7:234:PHE:N	1:A7:234:PHE:HD1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:421:LEU:O	1:A7:425:MET:HG2	2.14	0.48
1:A8:85:GLN:OE1	1:A8:123:LEU:HG	2.13	0.48
1:A9:90:ASP:C	1:A9:90:ASP:OD2	2.57	0.48
1:A9:155:THR:HG23	1:AA:129:THR:HG21	1.94	0.48
1:AA:189:ALA:O	1:AA:192:ASN:HB2	2.12	0.48
1:AA:328:VAL:HG12	1:AA:329:PHE:HD1	1.79	0.48
1:AB:20:GLN:HG2	1:AB:23:ARG:HH22	1.79	0.48
1:AB:102:ASP:OD2	1:AH:145:LYS:HA	2.14	0.48
1:AB:116:ILE:CD1	1:AB:418:VAL:HG21	2.43	0.48
1:AB:286:ASN:C	1:AB:286:ASN:OD1	2.57	0.48
1:AC:167:ASP:CA	1:AC:384:ARG:HB2	2.42	0.48
1:AD:179:PHE:CZ	1:AD:344:VAL:HG13	2.47	0.48
1:AD:281:ASP:OD2	1:AD:283:ARG:HB3	2.13	0.48
1:AE:61:LEU:HD12	1:AE:463:GLN:HA	1.94	0.48
1:AF:108:SER:O	1:AF:112:LEU:HD12	2.13	0.48
1:AG:5:ILE:CD1	1:AG:506:GLN:HG2	2.42	0.48
1:AG:174:MET:HE1	1:AG:398:ALA:CB	2.41	0.48
1:AG:447:SER:OG	1:AM:118:ARG:HG3	2.13	0.48
1:AH:302:ASP:CB	1:AH:308:ASN:HD21	2.24	0.48
1:AJ:224:ILE:CD1	1:AJ:346:GLY:HA3	2.43	0.48
1:AK:92:ILE:HD12	1:AK:92:ILE:H	1.77	0.48
1:AK:173:ARG:HD2	1:AK:357:ASP:HA	1.94	0.48
1:AL:65:ILE:HG13	1:AL:459:ILE:HD12	1.95	0.48
1:AN:263:THR:HG22	1:AN:268:GLU:HG3	1.94	0.48
1:AN:363:VAL:HG22	1:AN:364:ASN:OD1	2.13	0.48
1:AQ:90:ASP:C	1:AQ:90:ASP:OD2	2.57	0.48
1:AQ:189:ALA:HA	1:AQ:192:ASN:CG	2.39	0.48
1:AQ:189:ALA:HB3	1:AQ:343:ALA:HB3	1.95	0.48
1:AQ:303:ILE:HD12	1:AR:234:PHE:CD1	2.48	0.48
1:AR:325:SER:CB	1:AR:330:GLY:HA3	2.43	0.48
1:AS:172:VAL:O	1:AS:380:THR:HA	2.13	0.48
1:AT:120:LEU:HD22	1:AT:387:ARG:HG3	1.95	0.48
1:AU:284:LEU:O	1:AU:288:ILE:HG12	2.14	0.48
1:AV:189:ALA:HB3	1:AV:343:ALA:HB3	1.95	0.48
1:AW:161:ILE:HG23	1:AW:445:MET:HE1	1.95	0.48
1:AX:163:SER:OG	1:AX:168:LYS:HD3	2.14	0.48
1:AX:189:ALA:O	1:AX:192:ASN:HB2	2.12	0.48
1:AX:511:ARG:CZ	1:AX:512:LEU:HG	2.43	0.48
1:A3:423:GLY:HA2	1:A3:426:ILE:CD1	2.43	0.48
1:A4:33:SER:HB2	1:AF:17:VAL:CG2	2.39	0.48
1:A4:88:ILE:O	1:A4:92:ILE:CD1	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:211:ILE:CD1	1:A5:234:PHE:HD2	2.26	0.48
1:A6:365:PHE:O	1:A6:368:VAL:HG12	2.14	0.48
1:A7:68:ALA:CB	1:A7:456:ILE:HD11	2.35	0.48
1:A8:117:GLN:C	1:A8:117:GLN:OE1	2.57	0.48
1:A8:422:LYS:O	1:A8:426:ILE:CD1	2.53	0.48
1:AB:108:SER:O	1:AB:112:LEU:HD12	2.14	0.48
1:AD:5:ILE:HD11	1:AD:510:LEU:HG	1.95	0.48
1:AD:218:THR:O	1:AD:315:ARG:HD3	2.12	0.48
1:AE:146:GLU:HG3	1:AE:156:THR:HG21	1.94	0.48
1:AF:214:VAL:HG11	1:AF:227:LEU:HB2	1.95	0.48
1:AF:422:LYS:O	1:AF:426:ILE:CD1	2.55	0.48
1:AG:93:LYS:CE	1:AJ:60:ASN:HD21	2.24	0.48
1:AG:183:GLY:O	1:AG:188:ALA:HB3	2.13	0.48
1:AG:369:GLY:HA2	1:AG:374:GLN:NE2	2.28	0.48
1:AH:189:ALA:HA	1:AH:192:ASN:CG	2.39	0.48
1:AH:225:GLY:HA2	1:AH:244:TYR:CD1	2.49	0.48
1:AH:352:ARG:HD2	1:AH:356:ARG:O	2.14	0.48
1:AI:426:ILE:HD12	1:AI:426:ILE:N	2.29	0.48
1:AJ:125:ASN:O	1:AJ:129:THR:HG23	2.13	0.48
1:AJ:325:SER:CB	1:AJ:330:GLY:HA3	2.43	0.48
1:AK:65:ILE:CG1	1:AK:459:ILE:HD11	2.44	0.48
1:AK:227:LEU:O	1:AK:231:ILE:HG13	2.14	0.48
1:AK:319:VAL:HG13	1:AK:342:HIS:HD2	1.79	0.48
1:AM:189:ALA:O	1:AM:192:ASN:HB2	2.13	0.48
1:AM:319:VAL:H	1:AM:342:HIS:HD2	1.61	0.48
1:AO:163:SER:OG	1:AO:168:LYS:HD3	2.14	0.48
1:AP:189:ALA:O	1:AP:192:ASN:HB2	2.12	0.48
1:AP:259:VAL:HA	1:AP:324:ALA:CB	2.44	0.48
1:AR:84:GLU:HA	1:AR:84:GLU:OE1	2.13	0.48
1:AT:117:GLN:HE21	1:AT:387:ARG:HD2	1.78	0.48
1:AX:246:VAL:HB	1:AX:311:SER:HB3	1.96	0.48
1:A1:137:MET:HB2	1:A1:138:LEU:HD12	1.94	0.48
1:A1:231:ILE:HG21	1:A1:242:ALA:HB2	1.95	0.48
1:A2:118:ARG:NH2	1:AM:448:VAL:HG22	2.29	0.48
1:A3:421:LEU:O	1:A3:425:MET:HG2	2.14	0.48
1:A3:487:LYS:O	1:A3:491:LEU:HD23	2.14	0.48
1:A4:247:MET:HE1	1:AT:144:ASN:HD21	1.79	0.48
1:A4:485:PHE:CZ	1:AF:501:GLN:HG3	2.49	0.48
1:A5:284:LEU:O	1:A5:288:ILE:HG12	2.14	0.48
1:A6:120:LEU:HD11	1:A6:166:SER:HB2	1.94	0.48
1:A6:186:ALA:HB3	1:A6:334:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:179:PHE:CZ	1:A7:344:VAL:HG13	2.49	0.48
1:A8:189:ALA:O	1:A8:192:ASN:HB2	2.13	0.48
1:A8:260:ARG:HA	1:A8:271:THR:OG1	2.14	0.48
1:A8:303:ILE:CD1	1:AE:237:THR:HG21	2.44	0.48
1:AA:149:ILE:HD12	1:AA:455:THR:HG21	1.95	0.48
1:AB:189:ALA:O	1:AB:192:ASN:HB2	2.13	0.48
1:AB:244:TYR:C	1:AB:244:TYR:CD2	2.91	0.48
1:AB:389:ILE:HG13	1:AB:415:GLY:C	2.39	0.48
1:AF:269:ILE:O	1:AS:356:ARG:HD2	2.14	0.48
1:AH:201:LYS:HB2	1:AH:359:ILE:CG1	2.44	0.48
1:AJ:5:ILE:HD11	1:AJ:510:LEU:HG	1.96	0.48
1:AK:17:VAL:CG1	1:AN:34:SER:HA	2.38	0.48
1:AL:7:THR:OG1	1:AT:471:SER:HB2	2.14	0.48
1:AL:284:LEU:O	1:AL:288:ILE:HG12	2.14	0.48
1:AM:440:LYS:HB2	1:AM:440:LYS:NZ	2.28	0.48
1:AO:224:ILE:HD11	1:AO:346:GLY:HA3	1.94	0.48
1:AO:291:VAL:HG23	1:AO:295:THR:HG23	1.96	0.48
1:AP:363:VAL:HG22	1:AP:364:ASN:OD1	2.13	0.48
1:AR:136:GLN:HB3	1:AR:139:SER:OG	2.13	0.48
1:AS:89:LEU:CA	1:AS:92:ILE:HD12	2.43	0.48
1:AS:281:ASP:OD1	1:AS:283:ARG:HG2	2.12	0.48
1:AS:421:LEU:HD11	1:AS:425:MET:HE2	1.95	0.48
1:AS:451:GLU:HG3	1:AT:122:GLU:CG	2.44	0.48
1:AT:293:ASP:OD1	1:AT:293:ASP:C	2.56	0.48
1:AW:92:ILE:HG23	1:AW:116:ILE:CG1	2.31	0.48
1:AW:183:GLY:O	1:AW:188:ALA:HB3	2.14	0.48
1:AW:201:LYS:HA	1:AW:208:ASP:HB2	1.96	0.48
1:AX:487:LYS:O	1:AX:491:LEU:HD23	2.13	0.48
1:A1:485:PHE:CZ	1:AQ:501:GLN:HG3	2.49	0.48
1:A2:263:THR:HG22	1:A2:268:GLU:HG3	1.94	0.48
1:A3:454:THR:HB	1:AL:122:GLU:OE2	2.14	0.48
1:A4:244:TYR:C	1:A4:244:TYR:CD2	2.91	0.48
1:A4:478:PHE:HE2	1:AT:5:ILE:CG2	2.27	0.48
1:A5:490:ILE:CG2	1:AE:510:LEU:HD12	2.44	0.48
1:A6:88:ILE:O	1:A6:92:ILE:CD1	2.54	0.48
1:A7:167:ASP:HA	1:A7:384:ARG:CB	2.44	0.48
1:A7:183:GLY:O	1:A7:188:ALA:HB3	2.14	0.48
1:A8:395:ALA:CB	1:A8:414:ILE:HG23	2.44	0.48
1:A9:50:ILE:HD11	1:AA:133:ASN:HD21	1.79	0.48
1:AB:183:GLY:O	1:AB:188:ALA:HB3	2.13	0.48
1:AD:229:GLU:O	1:AD:233:ARG:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:244:TYR:C	1:AD:244:TYR:CD2	2.91	0.48
1:AE:319:VAL:HG12	1:AE:342:HIS:HD2	1.79	0.48
1:AF:167:ASP:HB3	1:AF:384:ARG:CZ	2.44	0.48
1:AG:93:LYS:HG2	1:AJ:60:ASN:HD21	1.77	0.48
1:AH:258:THR:CG2	1:AH:273:ASN:HA	2.30	0.48
1:AH:423:GLY:O	1:AH:427:VAL:HG23	2.13	0.48
1:AJ:83:ASP:HB2	1:AJ:442:ARG:HH21	1.77	0.48
1:AM:8:ASN:HB3	1:AM:11:ALA:HB3	1.96	0.48
1:AN:157:VAL:HG22	1:AN:451:GLU:OE2	2.14	0.48
1:AN:294:ARG:NH1	1:AS:389:ILE:HD12	2.28	0.48
1:AN:445:MET:HA	1:AN:445:MET:CE	2.35	0.48
1:AO:293:ASP:OD1	1:AO:294:ARG:HG3	2.14	0.48
1:AO:459:ILE:HG13	1:AO:460:SER:N	2.29	0.48
1:AQ:75:VAL:HG11	1:AQ:449:GLN:HB2	1.95	0.48
1:AQ:122:GLU:OE1	1:AR:454:THR:HB	2.14	0.48
1:AQ:211:ILE:HG22	1:AQ:212:GLU:N	2.29	0.48
1:AS:88:ILE:CD1	1:AS:122:GLU:OE1	2.62	0.48
1:AT:65:ILE:CG1	1:AT:459:ILE:HD11	2.43	0.48
1:AT:186:ALA:HB3	1:AT:334:PHE:O	2.14	0.48
1:AT:258:THR:CG2	1:AT:273:ASN:HA	2.28	0.48
1:AU:97:VAL:HG22	1:AU:428:MET:CE	2.44	0.48
1:AU:173:ARG:HD2	1:AU:357:ASP:HA	1.95	0.48
1:AU:281:ASP:OD1	1:AU:283:ARG:HG2	2.13	0.48
1:AW:470:GLU:HA	1:AW:473:ILE:CG2	2.44	0.48
1:A1:478:PHE:CE2	1:AI:5:ILE:HG21	2.49	0.48
1:A1:512:LEU:HD23	1:AB:496:SER:HB2	1.96	0.48
1:A3:4:ARG:HH11	1:AS:472:GLN:HA	1.76	0.48
1:A3:382:ASN:O	1:A3:430:MET:HE1	2.14	0.48
1:A4:90:ASP:OD2	1:A4:90:ASP:C	2.57	0.48
1:A4:183:GLY:O	1:A4:188:ALA:HB3	2.14	0.48
1:A5:85:GLN:OE1	1:A5:123:LEU:HG	2.14	0.48
1:A6:283:ARG:HG3	1:A6:284:LEU:N	2.29	0.48
1:A8:510:LEU:N	1:A8:510:LEU:HD23	2.29	0.48
1:A9:15:HIS:HA	1:A9:499:MET:HE1	1.94	0.48
1:A9:386:VAL:HG23	1:A9:430:MET:CE	2.44	0.48
1:AB:218:THR:O	1:AB:315:ARG:HD3	2.14	0.48
1:AD:337:ILE:HG22	1:AD:342:HIS:CG	2.49	0.48
1:AE:38:ILE:HD11	1:AE:44:ASP:HB3	1.96	0.48
1:AE:211:ILE:HD11	1:AE:238:LEU:CD1	2.43	0.48
1:AE:216:ILE:HD13	1:AE:223:GLY:CA	2.43	0.48
1:AE:281:ASP:OD2	1:AE:283:ARG:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:186:ALA:HB2	1:AG:334:PHE:HB2	1.92	0.48
1:AG:209:TYR:HB2	1:AG:238:LEU:HD21	1.96	0.48
1:AG:442:ARG:NH1	1:AJ:48:MET:HG3	2.29	0.48
1:AH:370:PHE:HA	1:AH:376:VAL:CG1	2.42	0.48
1:AK:325:SER:CB	1:AK:330:GLY:HA3	2.44	0.48
1:AM:511:ARG:NH1	1:AM:512:LEU:HB2	2.29	0.48
1:AN:138:LEU:HD23	1:AN:138:LEU:N	2.29	0.48
1:AN:179:PHE:HD1	1:AN:184:MET:HE2	1.78	0.48
1:AP:100:ALA:HB2	1:AP:424:ALA:HB1	1.96	0.48
1:AQ:92:ILE:HD12	1:AQ:92:ILE:H	1.77	0.48
1:AR:88:ILE:CG2	1:AR:92:ILE:HD11	2.44	0.48
1:AT:325:SER:CB	1:AT:330:GLY:HA3	2.43	0.48
1:AU:212:GLU:OE2	1:AU:212:GLU:N	2.43	0.48
1:AU:386:VAL:HG23	1:AU:430:MET:CE	2.44	0.48
1:AW:187:SER:HB3	1:AW:335:ALA:HB1	1.95	0.48
1:AW:386:VAL:HG23	1:AW:430:MET:CE	2.43	0.48
1:AX:81:ALA:CB	1:AX:138:LEU:HD11	2.41	0.48
1:AX:229:GLU:O	1:AX:233:ARG:HG3	2.14	0.48
1:AX:300:SER:O	1:AX:301:LEU:HD23	2.14	0.48
1:A1:102:ASP:OD2	1:AI:145:LYS:HA	2.14	0.48
1:A1:126:ILE:HG12	1:AQ:458:ASN:ND2	2.26	0.48
1:A1:234:PHE:CE2	1:AB:303:ILE:HG13	2.49	0.48
1:A1:251:GLY:H	1:A1:332:GLY:CA	2.16	0.48
1:A3:300:SER:O	1:A3:301:LEU:HD23	2.13	0.48
1:A3:348:LEU:HD22	1:A3:370:PHE:CE2	2.49	0.48
1:A4:325:SER:CB	1:A4:330:GLY:HA3	2.43	0.48
1:A6:122:GLU:CD	1:AT:454:THR:HB	2.39	0.48
1:A6:189:ALA:HA	1:A6:192:ASN:CG	2.39	0.48
1:A8:342:HIS:ND1	1:A8:343:ALA:N	2.61	0.48
1:A9:84:GLU:HG2	1:AH:458:ASN:HB2	1.94	0.48
1:A9:263:THR:HG22	1:A9:268:GLU:HG3	1.94	0.48
1:AA:363:VAL:HG22	1:AA:364:ASN:OD1	2.14	0.48
1:AB:78:ALA:O	1:AB:82:MET:HE3	2.13	0.48
1:AC:227:LEU:O	1:AC:230:ILE:HG12	2.13	0.48
1:AD:116:ILE:CD1	1:AD:418:VAL:HG21	2.44	0.48
1:AD:328:VAL:C	1:AD:329:PHE:CD1	2.92	0.48
1:AE:60:ASN:HD21	1:AK:93:LYS:HE2	1.78	0.48
1:AF:201:LYS:HB2	1:AF:359:ILE:CG1	2.44	0.48
1:AH:395:ALA:CB	1:AH:414:ILE:HG23	2.44	0.48
1:AI:61:LEU:HB3	1:AI:463:GLN:HB2	1.95	0.48
1:AK:447:SER:OG	1:AN:118:ARG:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:75:VAL:HG13	1:AM:445:MET:CG	2.35	0.48
1:AM:215:ARG:HB2	1:AM:215:ARG:CZ	2.44	0.48
1:AM:283:ARG:HG3	1:AM:284:LEU:N	2.29	0.48
1:AN:392:ALA:HB2	1:AN:411:SER:O	2.14	0.48
1:AR:89:LEU:HA	1:AR:92:ILE:HD12	1.94	0.48
1:AU:511:ARG:NH2	1:AU:512:LEU:HD13	2.29	0.48
1:AV:88:ILE:CD1	1:AV:122:GLU:HG3	2.44	0.48
1:AW:259:VAL:HA	1:AW:324:ALA:CB	2.44	0.48
1:AW:319:VAL:H	1:AW:342:HIS:HD2	1.62	0.48
1:A1:50:ILE:HD11	1:AB:133:ASN:ND2	2.29	0.47
1:A1:184:MET:HA	1:A1:192:ASN:ND2	2.25	0.47
1:A2:65:ILE:CG1	1:A2:459:ILE:HD11	2.44	0.47
1:A2:89:LEU:CA	1:A2:92:ILE:HD12	2.43	0.47
1:A3:38:ILE:HD11	1:A3:44:ASP:HB3	1.95	0.47
1:A6:281:ASP:OD2	1:A6:283:ARG:HB3	2.14	0.47
1:A7:184:MET:CE	1:A7:345:ILE:HG12	2.32	0.47
1:A7:189:ALA:O	1:A7:192:ASN:HB2	2.13	0.47
1:A8:166:SER:O	1:A8:383:LEU:HB3	2.14	0.47
1:A8:214:VAL:HG11	1:A8:227:LEU:HB2	1.95	0.47
1:A9:163:SER:OG	1:A9:168:LYS:HD3	2.13	0.47
1:AA:281:ASP:OD1	1:AA:283:ARG:HG2	2.13	0.47
1:AA:283:ARG:HA	1:AA:286:ASN:ND2	2.29	0.47
1:AC:213:THR:CG2	1:AO:278:ASN:HD21	2.27	0.47
1:AE:297:VAL:HG21	1:AE:317:ILE:HG12	1.96	0.47
1:AG:60:ASN:ND2	1:AW:93:LYS:HG2	2.22	0.47
1:AG:260:ARG:HA	1:AG:271:THR:OG1	2.14	0.47
1:AH:231:ILE:HG21	1:AH:242:ALA:HB2	1.95	0.47
1:AH:328:VAL:C	1:AH:329:PHE:CD1	2.92	0.47
1:AJ:61:LEU:HB3	1:AJ:463:GLN:HB2	1.96	0.47
1:AJ:183:GLY:O	1:AJ:188:ALA:HB3	2.14	0.47
1:AJ:363:VAL:HG22	1:AJ:364:ASN:OD1	2.13	0.47
1:AL:189:ALA:O	1:AL:192:ASN:HB2	2.13	0.47
1:AL:510:LEU:HD23	1:AL:510:LEU:N	2.29	0.47
1:AM:218:THR:O	1:AM:315:ARG:HD3	2.14	0.47
1:AO:174:MET:HE1	1:AO:398:ALA:HB2	1.95	0.47
1:AT:98:GLN:HG2	1:AT:112:LEU:HD21	1.94	0.47
1:AU:224:ILE:HD13	1:AU:345:ILE:O	2.14	0.47
1:AU:227:LEU:O	1:AU:230:ILE:HG12	2.14	0.47
1:AV:21:ASN:HA	1:AV:24:ASP:OD1	2.14	0.47
1:AW:352:ARG:HB3	1:AW:358:ILE:HD11	1.96	0.47
1:A3:390:PHE:CE2	1:A3:417:GLY:HA2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:163:SER:OG	1:A6:168:LYS:HD3	2.14	0.47
1:AA:112:LEU:HD11	1:AK:46:SER:OG	2.13	0.47
1:AD:184:MET:O	1:AD:189:ALA:HB2	2.13	0.47
1:AE:386:VAL:HG23	1:AE:430:MET:HE1	1.96	0.47
1:AF:125:ASN:O	1:AF:129:THR:HG23	2.14	0.47
1:AF:157:VAL:HG22	1:AF:451:GLU:OE2	2.14	0.47
1:AF:421:LEU:HD21	1:AS:146:GLU:CD	2.39	0.47
1:AF:511:ARG:HH12	1:AF:512:LEU:HD13	1.78	0.47
1:AG:20:GLN:OE1	1:AG:20:GLN:C	2.57	0.47
1:AH:224:ILE:HD11	1:AH:346:GLY:HA3	1.96	0.47
1:AI:190:ALA:O	1:AI:193:LEU:HG	2.13	0.47
1:AJ:65:ILE:CG1	1:AJ:459:ILE:HD11	2.44	0.47
1:AJ:233:ARG:HD2	1:AJ:234:PHE:CE1	2.49	0.47
1:AJ:337:ILE:HG22	1:AJ:342:HIS:CG	2.48	0.47
1:AN:61:LEU:HB3	1:AN:463:GLN:HB2	1.97	0.47
1:AP:510:LEU:HD12	1:AT:490:ILE:HG23	1.95	0.47
1:AQ:117:GLN:HE21	1:AQ:387:ARG:HD2	1.79	0.47
1:AQ:167:ASP:HB3	1:AQ:384:ARG:CZ	2.44	0.47
1:AQ:189:ALA:HA	1:AQ:192:ASN:ND2	2.29	0.47
1:AR:61:LEU:O	1:AR:65:ILE:HG13	2.14	0.47
1:AR:129:THR:CG2	1:AU:155:THR:HG23	2.44	0.47
1:AS:65:ILE:CG1	1:AS:459:ILE:HD11	2.44	0.47
1:AS:138:LEU:N	1:AS:138:LEU:HD23	2.28	0.47
1:AS:167:ASP:HB3	1:AS:384:ARG:CZ	2.45	0.47
1:AU:395:ALA:CB	1:AU:414:ILE:HG23	2.44	0.47
1:AW:5:ILE:HG12	1:AW:510:LEU:HD11	1.96	0.47
1:AW:281:ASP:OD2	1:AW:283:ARG:HB3	2.13	0.47
1:AX:511:ARG:NH2	1:AX:512:LEU:HD11	2.29	0.47
1:A2:35:GLY:O	1:A2:476:VAL:HG12	2.13	0.47
1:A2:186:ALA:HB2	1:A2:334:PHE:HB2	1.94	0.47
1:A2:421:LEU:HD21	1:AR:146:GLU:CD	2.39	0.47
1:A3:155:THR:HG23	1:AL:129:THR:CG2	2.43	0.47
1:A3:183:GLY:O	1:A3:188:ALA:HB3	2.15	0.47
1:A3:227:LEU:O	1:A3:230:ILE:HG12	2.14	0.47
1:A4:61:LEU:O	1:A4:65:ILE:HG13	2.15	0.47
1:A5:144:ASN:HD21	1:AH:247:MET:HE1	1.78	0.47
1:A5:224:ILE:HD11	1:A5:346:GLY:HA3	1.97	0.47
1:A5:260:ARG:HA	1:A5:271:THR:OG1	2.14	0.47
1:A6:189:ALA:HA	1:A6:192:ASN:ND2	2.29	0.47
1:A6:501:GLN:HG3	1:AW:485:PHE:CZ	2.49	0.47
1:A7:251:GLY:N	1:A7:333:ASN:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:234:PHE:CD2	1:AS:303:ILE:HD12	2.50	0.47
1:A9:138:LEU:N	1:A9:138:LEU:HD23	2.29	0.47
1:AA:224:ILE:HD11	1:AA:246:VAL:HG22	1.95	0.47
1:AC:145:LYS:HA	1:AR:102:ASP:OD2	2.15	0.47
1:AC:189:ALA:HB3	1:AC:343:ALA:HB3	1.96	0.47
1:AD:319:VAL:H	1:AD:342:HIS:HD1	1.62	0.47
1:AD:328:VAL:HG12	1:AD:329:PHE:HD1	1.79	0.47
1:AE:48:MET:SD	1:AK:442:ARG:HD3	2.54	0.47
1:AE:173:ARG:HD2	1:AE:357:ASP:HA	1.94	0.47
1:AE:251:GLY:H	1:AE:332:GLY:CA	2.18	0.47
1:AE:284:LEU:O	1:AE:288:ILE:HG12	2.15	0.47
1:AE:371:HIS:CB	1:AE:374:GLN:HG3	2.32	0.47
1:AF:122:GLU:OE2	1:AN:454:THR:HB	2.13	0.47
1:AF:225:GLY:HA2	1:AF:244:TYR:CD1	2.48	0.47
1:AG:145:LYS:HA	1:AW:102:ASP:OD2	2.14	0.47
1:AH:511:ARG:NH1	1:AH:512:LEU:HB2	2.30	0.47
1:AJ:201:LYS:HA	1:AJ:208:ASP:CB	2.44	0.47
1:AP:167:ASP:OD1	1:AP:168:LYS:HG3	2.14	0.47
1:AP:183:GLY:O	1:AP:188:ALA:HB3	2.14	0.47
1:AP:250:GLY:HA2	1:AP:333:ASN:H	1.79	0.47
1:AQ:149:ILE:HD11	1:AQ:157:VAL:HB	1.95	0.47
1:AT:97:VAL:HG22	1:AT:428:MET:CE	2.43	0.47
1:AT:352:ARG:HD2	1:AT:356:ARG:O	2.15	0.47
1:AU:99:ALA:CB	1:AU:112:LEU:HD22	2.31	0.47
1:AU:510:LEU:HD23	1:AU:510:LEU:N	2.29	0.47
1:AX:179:PHE:HB2	1:AX:347:ARG:HG2	1.96	0.47
1:AX:184:MET:HE1	1:AX:345:ILE:CD1	2.44	0.47
1:A2:472:GLN:HA	1:AR:4:ARG:HH11	1.79	0.47
1:A3:174:MET:CE	1:A3:398:ALA:HB2	2.44	0.47
1:A3:246:VAL:HB	1:A3:311:SER:HB3	1.95	0.47
1:A4:352:ARG:HB3	1:A4:358:ILE:HD11	1.96	0.47
1:A5:231:ILE:HG21	1:A5:242:ALA:HB2	1.95	0.47
1:A6:93:LYS:CE	1:AP:60:ASN:HD21	2.27	0.47
1:A6:112:LEU:HD11	1:AL:46:SER:OG	2.15	0.47
1:A6:319:VAL:H	1:A6:342:HIS:HD2	1.63	0.47
1:A8:48:MET:SD	1:AN:442:ARG:HD3	2.54	0.47
1:A9:93:LYS:CD	1:AK:60:ASN:HD21	2.27	0.47
1:AC:284:LEU:O	1:AC:288:ILE:HG12	2.14	0.47
1:AD:239:GLY:O	1:AD:352:ARG:HG3	2.15	0.47
1:AD:395:ALA:CB	1:AD:414:ILE:HG23	2.44	0.47
1:AF:61:LEU:O	1:AF:65:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:201:LYS:HE2	1:AH:201:LYS:HB3	1.74	0.47
1:AI:247:MET:HE2	1:AI:402:ALA:CB	2.44	0.47
1:AJ:173:ARG:HD2	1:AJ:357:ASP:HA	1.96	0.47
1:AJ:175:GLU:HA	1:AJ:377:ALA:O	2.14	0.47
1:AJ:244:TYR:C	1:AJ:244:TYR:CD2	2.92	0.47
1:AL:83:ASP:HB2	1:AL:442:ARG:HH21	1.79	0.47
1:AL:146:GLU:HG3	1:AL:156:THR:HG21	1.96	0.47
1:AM:186:ALA:HB2	1:AM:334:PHE:HB2	1.95	0.47
1:AN:184:MET:O	1:AN:189:ALA:HB2	2.15	0.47
1:AN:201:LYS:HB2	1:AN:359:ILE:CG1	2.45	0.47
1:AO:218:THR:O	1:AO:315:ARG:HD3	2.14	0.47
1:AQ:146:GLU:CD	1:AV:421:LEU:HD21	2.40	0.47
1:AR:262:LEU:HD12	1:AR:263:THR:N	2.29	0.47
1:AS:231:ILE:HG21	1:AS:242:ALA:HB2	1.96	0.47
1:AU:186:ALA:HB2	1:AU:334:PHE:HB2	1.95	0.47
1:A1:84:GLU:OE1	1:A1:84:GLU:HA	2.14	0.47
1:A1:352:ARG:HB3	1:A1:358:ILE:HD11	1.96	0.47
1:A2:120:LEU:CD2	1:A2:166:SER:HB2	2.44	0.47
1:A2:183:GLY:O	1:A2:188:ALA:HB3	2.15	0.47
1:A5:110:ARG:CZ	1:A5:110:ARG:HB2	2.43	0.47
1:A5:138:LEU:HD12	1:A5:138:LEU:N	2.29	0.47
1:A5:511:ARG:NH1	1:A5:512:LEU:CD1	2.72	0.47
1:A6:211:ILE:HG22	1:A6:212:GLU:N	2.28	0.47
1:A6:422:LYS:HA	1:A6:422:LYS:HE3	1.97	0.47
1:A7:155:THR:HG23	1:AJ:129:THR:CG2	2.45	0.47
1:A7:226:ALA:O	1:A7:230:ILE:HG23	2.13	0.47
1:A7:262:LEU:CD1	1:A7:319:VAL:HG23	2.44	0.47
1:A8:83:ASP:HB2	1:A8:442:ARG:HH21	1.78	0.47
1:A9:421:LEU:O	1:A9:421:LEU:HD12	2.14	0.47
1:A9:490:ILE:HG22	1:AN:510:LEU:HD12	1.96	0.47
1:A9:501:GLN:HG3	1:AA:485:PHE:CZ	2.50	0.47
1:AA:251:GLY:H	1:AA:332:GLY:CA	2.17	0.47
1:AA:365:PHE:O	1:AA:368:VAL:HG12	2.15	0.47
1:AC:60:ASN:HD21	1:AR:93:LYS:CE	2.27	0.47
1:AC:328:VAL:C	1:AC:329:PHE:CD1	2.92	0.47
1:AD:104:GLN:HB3	1:AD:108:SER:HG	1.79	0.47
1:AE:4:ARG:HH11	1:AK:472:GLN:HA	1.80	0.47
1:AF:122:GLU:CB	1:AN:451:GLU:HG3	2.41	0.47
1:AF:244:TYR:C	1:AF:244:TYR:CD2	2.92	0.47
1:AG:81:ALA:CB	1:AG:138:LEU:HD11	2.44	0.47
1:AG:278:ASN:CG	1:AP:212:GLU:HG3	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:328:VAL:C	1:AG:329:PHE:CD1	2.93	0.47
1:AG:449:GLN:NE2	1:AJ:42:ALA:HB2	2.30	0.47
1:AI:99:ALA:CB	1:AI:112:LEU:HD22	2.30	0.47
1:AJ:8:ASN:HB3	1:AJ:11:ALA:HB3	1.97	0.47
1:AJ:184:MET:HE1	1:AJ:345:ILE:HG12	1.95	0.47
1:AJ:184:MET:SD	1:AJ:345:ILE:HD11	2.54	0.47
1:AK:167:ASP:OD1	1:AK:168:LYS:HG3	2.14	0.47
1:AK:366:SER:HB2	1:AK:374:GLN:OE1	2.15	0.47
1:AM:281:ASP:OD2	1:AM:283:ARG:HB3	2.15	0.47
1:AM:422:LYS:HA	1:AM:422:LYS:HE3	1.97	0.47
1:AO:259:VAL:HA	1:AO:324:ALA:CB	2.44	0.47
1:AO:342:HIS:ND1	1:AO:343:ALA:N	2.62	0.47
1:AO:356:ARG:HD2	1:AQ:269:ILE:O	2.14	0.47
1:AO:418:VAL:HG22	1:AO:427:VAL:HG21	1.97	0.47
1:AP:46:SER:OG	1:AW:112:LEU:HD11	2.14	0.47
1:AP:186:ALA:HB3	1:AP:334:PHE:O	2.14	0.47
1:AS:167:ASP:HA	1:AS:384:ARG:CB	2.40	0.47
1:AU:247:MET:HE3	1:AU:308:ASN:HB3	1.95	0.47
1:AV:166:SER:O	1:AV:383:LEU:HB3	2.14	0.47
1:AW:175:GLU:HA	1:AW:377:ALA:O	2.14	0.47
1:AW:263:THR:HG21	1:AW:268:GLU:HG3	1.95	0.47
1:AW:421:LEU:HD12	1:AW:421:LEU:O	2.15	0.47
1:AX:65:ILE:HG13	1:AX:459:ILE:HD12	1.93	0.47
1:A2:125:ASN:O	1:A2:129:THR:HG23	2.15	0.47
1:A4:161:ILE:HG23	1:A4:445:MET:HE1	1.96	0.47
1:A4:382:ASN:O	1:A4:430:MET:HE1	2.14	0.47
1:A5:201:LYS:HE2	1:A5:201:LYS:HB3	1.75	0.47
1:A5:422:LYS:O	1:A5:426:ILE:CD1	2.54	0.47
1:A7:328:VAL:C	1:A7:329:PHE:CD1	2.93	0.47
1:A8:145:LYS:HA	1:AN:102:ASP:OD2	2.15	0.47
1:AB:398:ALA:HB1	1:AB:426:ILE:HD11	1.95	0.47
1:AC:5:ILE:CG2	1:AR:478:PHE:HE2	2.28	0.47
1:AC:48:MET:SD	1:AR:442:ARG:HD3	2.54	0.47
1:AD:337:ILE:HG22	1:AD:342:HIS:CB	2.45	0.47
1:AD:509:VAL:CG1	1:AD:510:LEU:N	2.77	0.47
1:AE:353:THR:HG23	1:AE:433:SER:CB	2.38	0.47
1:AE:422:LYS:O	1:AE:426:ILE:CD1	2.53	0.47
1:AF:126:ILE:HG12	1:AN:458:ASN:HD22	1.80	0.47
1:AF:449:GLN:HE21	1:AS:42:ALA:HB2	1.79	0.47
1:AF:508:ASN:ND2	1:AF:508:ASN:C	2.71	0.47
1:AH:303:ILE:O	1:AI:234:PHE:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:211:ILE:HD13	1:AI:234:PHE:HD2	1.80	0.47
1:AI:260:ARG:HA	1:AI:271:THR:OG1	2.14	0.47
1:AI:325:SER:CB	1:AI:330:GLY:HA3	2.44	0.47
1:AI:445:MET:HE2	1:AI:445:MET:N	2.30	0.47
1:AK:230:ILE:HG13	1:AK:231:ILE:N	2.29	0.47
1:AM:163:SER:OG	1:AM:168:LYS:HD3	2.15	0.47
1:AP:260:ARG:HA	1:AP:271:THR:OG1	2.14	0.47
1:AQ:189:ALA:O	1:AQ:192:ASN:HB2	2.14	0.47
1:AQ:277:LYS:HB2	2:AQ:609:P8E:O1B	2.14	0.47
1:AQ:410:ASN:HD21	1:AQ:414:ILE:CG2	2.27	0.47
1:AQ:470:GLU:HA	1:AQ:473:ILE:CG2	2.44	0.47
1:AS:163:SER:OG	1:AS:168:LYS:HD3	2.14	0.47
1:AS:325:SER:CB	1:AS:330:GLY:HA3	2.44	0.47
1:AU:262:LEU:HD11	1:AU:319:VAL:CG2	2.44	0.47
1:AV:329:PHE:CG	1:AV:330:GLY:N	2.82	0.47
1:A3:174:MET:HE3	1:A3:398:ALA:HB2	1.96	0.47
1:A3:263:THR:HG21	1:A3:268:GLU:HG3	1.94	0.47
1:A3:356:ARG:HD2	1:AS:269:ILE:O	2.15	0.47
1:A3:502:ALA:O	1:A3:505:VAL:HG12	2.15	0.47
1:A5:7:THR:OG1	1:AH:471:SER:HB2	2.15	0.47
1:A5:42:ALA:HB2	1:AH:449:GLN:NE2	2.29	0.47
1:A5:183:GLY:O	1:A5:188:ALA:HB3	2.14	0.47
1:A5:189:ALA:HA	1:A5:192:ASN:CG	2.40	0.47
1:A5:201:LYS:HB2	1:A5:359:ILE:HG13	1.95	0.47
1:A5:246:VAL:HG22	1:A5:346:GLY:HA3	1.97	0.47
1:A6:102:ASP:OD2	1:AP:145:LYS:HA	2.14	0.47
1:A6:129:THR:CG2	1:AT:155:THR:HG23	2.44	0.47
1:A6:212:GLU:HG3	1:AW:278:ASN:CG	2.40	0.47
1:A6:244:TYR:C	1:A6:244:TYR:CD2	2.92	0.47
1:A7:74:MET:HE3	1:A7:137:MET:HE1	1.97	0.47
1:A8:227:LEU:O	1:A8:230:ILE:HG12	2.15	0.47
1:A8:511:ARG:NH2	1:A8:512:LEU:HD13	2.29	0.47
1:A9:120:LEU:HD21	1:A9:383:LEU:CD2	2.43	0.47
1:A9:187:SER:HB3	1:A9:335:ALA:HB1	1.96	0.47
1:AA:35:GLY:O	1:AA:476:VAL:HG12	2.15	0.47
1:AA:224:ILE:HD11	1:AA:246:VAL:CG2	2.45	0.47
1:AA:264:ILE:HD11	1:AA:288:ILE:HD12	1.95	0.47
1:AA:283:ARG:HA	1:AA:286:ASN:HD22	1.80	0.47
1:AA:360:VAL:HG23	1:AA:365:PHE:CD1	2.50	0.47
1:AB:35:GLY:O	1:AB:476:VAL:HG12	2.14	0.47
1:AC:5:ILE:CD1	1:AC:506:GLN:HG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:65:ILE:HA	1:AC:459:ILE:HD11	1.97	0.47
1:AC:357:ASP:HB2	1:AR:271:THR:O	2.13	0.47
1:AC:458:ASN:HD22	1:AO:126:ILE:CG1	2.23	0.47
1:AE:352:ARG:HH12	1:AE:356:ARG:HH21	1.62	0.47
1:AF:211:ILE:CD1	1:AF:234:PHE:HD1	2.28	0.47
1:AF:421:LEU:HD12	1:AF:421:LEU:O	2.14	0.47
1:AG:92:ILE:HD12	1:AG:92:ILE:H	1.80	0.47
1:AG:250:GLY:HA2	1:AG:333:ASN:H	1.80	0.47
1:AG:426:ILE:N	1:AG:426:ILE:HD12	2.29	0.47
1:AG:470:GLU:HA	1:AG:473:ILE:CG2	2.45	0.47
1:AH:366:SER:HB2	1:AH:374:GLN:OE1	2.15	0.47
1:AI:224:ILE:HD11	1:AI:246:VAL:HG23	1.97	0.47
1:AI:352:ARG:HD2	1:AI:356:ARG:O	2.14	0.47
1:AI:470:GLU:HA	1:AI:473:ILE:CG2	2.45	0.47
1:AJ:247:MET:HE3	1:AJ:308:ASN:HB3	1.96	0.47
1:AJ:250:GLY:HA2	1:AJ:333:ASN:H	1.80	0.47
1:AK:5:ILE:HD11	1:AK:506:GLN:HG2	1.96	0.47
1:AK:82:MET:HE1	1:AK:441:ILE:CG2	2.43	0.47
1:AK:99:ALA:CB	1:AK:112:LEU:HD22	2.30	0.47
1:AK:190:ALA:O	1:AK:193:LEU:HG	2.14	0.47
1:AK:212:GLU:HG3	1:AN:305:GLY:HA3	1.95	0.47
1:AK:421:LEU:HD12	1:AK:421:LEU:O	2.15	0.47
1:AK:511:ARG:HG3	1:AK:512:LEU:N	2.30	0.47
1:AL:89:LEU:CA	1:AL:92:ILE:HD12	2.45	0.47
1:AL:209:TYR:HE1	1:AL:237:THR:HG21	1.80	0.47
1:AL:251:GLY:N	1:AL:333:ASN:H	2.13	0.47
1:AM:102:ASP:OD2	1:AU:145:LYS:HA	2.14	0.47
1:AM:448:VAL:O	1:AM:452:LEU:HG	2.15	0.47
1:AN:186:ALA:HB3	1:AN:334:PHE:O	2.15	0.47
1:AN:352:ARG:HB3	1:AN:358:ILE:HD11	1.96	0.47
1:AN:366:SER:HB2	1:AN:374:GLN:OE1	2.15	0.47
1:AO:92:ILE:HG23	1:AO:116:ILE:CG1	2.26	0.47
1:AO:175:GLU:HA	1:AO:377:ALA:O	2.14	0.47
1:AO:186:ALA:HB3	1:AO:334:PHE:O	2.14	0.47
1:AO:250:GLY:HA2	1:AO:333:ASN:H	1.80	0.47
1:AP:189:ALA:HA	1:AP:192:ASN:CG	2.40	0.47
1:AQ:325:SER:CB	1:AQ:330:GLY:HA3	2.45	0.47
1:AR:126:ILE:CG1	1:AU:458:ASN:HD22	2.27	0.47
1:AR:166:SER:O	1:AR:383:LEU:HB3	2.15	0.47
1:AS:136:GLN:HB3	1:AS:139:SER:OG	2.14	0.47
1:AS:244:TYR:C	1:AS:244:TYR:CD2	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:61:LEU:HB3	1:AT:463:GLN:HB2	1.97	0.47
1:AT:163:SER:OG	1:AT:168:LYS:HD3	2.14	0.47
1:AT:238:LEU:O	1:AT:240:VAL:HG23	2.14	0.47
1:AU:89:LEU:CA	1:AU:92:ILE:HD12	2.44	0.47
1:AV:260:ARG:HA	1:AV:271:THR:OG1	2.15	0.47
1:AW:251:GLY:H	1:AW:332:GLY:CA	2.18	0.47
1:AX:262:LEU:HD11	1:AX:319:VAL:CG2	2.45	0.47
1:A2:365:PHE:O	1:A2:368:VAL:HG12	2.14	0.47
1:A2:470:GLU:HA	1:A2:473:ILE:CG2	2.44	0.47
1:A3:251:GLY:N	1:A3:333:ASN:H	2.12	0.47
1:A5:33:SER:HB2	1:AD:17:VAL:HG21	1.96	0.47
1:A5:352:ARG:HD2	1:A5:356:ARG:O	2.15	0.47
1:A5:511:ARG:HH12	1:A5:512:LEU:HD12	1.79	0.47
1:A7:6:ASN:OD1	1:AL:491:LEU:HD11	2.15	0.47
1:A7:167:ASP:CA	1:A7:384:ARG:HB2	2.44	0.47
1:A8:259:VAL:O	1:A8:271:THR:HG23	2.14	0.47
1:A9:328:VAL:HG12	1:A9:329:PHE:CD1	2.49	0.47
1:AA:389:ILE:HG13	1:AA:415:GLY:C	2.40	0.47
1:AC:42:ALA:HB2	1:AR:449:GLN:NE2	2.29	0.47
1:AD:5:ILE:HD13	1:AD:510:LEU:HD11	1.97	0.47
1:AD:184:MET:HE1	1:AD:345:ILE:CD1	2.45	0.47
1:AD:260:ARG:HA	1:AD:271:THR:OG1	2.15	0.47
1:AF:183:GLY:O	1:AF:188:ALA:HB3	2.15	0.47
1:AG:163:SER:OG	1:AG:168:LYS:HD3	2.15	0.47
1:AI:218:THR:O	1:AI:315:ARG:HD3	2.15	0.47
1:AJ:172:VAL:O	1:AJ:380:THR:HA	2.13	0.47
1:AJ:328:VAL:HG23	1:AJ:329:PHE:CD1	2.50	0.47
1:AK:250:GLY:HA2	1:AK:333:ASN:H	1.80	0.47
1:AK:421:LEU:HD11	1:AK:425:MET:HE2	1.96	0.47
1:AL:74:MET:HE3	1:AL:137:MET:CE	2.40	0.47
1:AL:88:ILE:O	1:AL:92:ILE:CD1	2.54	0.47
1:AL:211:ILE:HD11	1:AL:238:LEU:HD11	1.97	0.47
1:AL:244:TYR:C	1:AL:244:TYR:CD2	2.93	0.47
1:AL:418:VAL:HG22	1:AL:427:VAL:HG21	1.97	0.47
1:AM:211:ILE:HG23	1:AM:230:ILE:HD12	1.97	0.47
1:AO:190:ALA:O	1:AO:193:LEU:HG	2.14	0.47
1:AO:325:SER:CB	1:AO:330:GLY:HA3	2.45	0.47
1:AP:214:VAL:HG11	1:AP:227:LEU:HA	1.97	0.47
1:AQ:262:LEU:HD23	1:AQ:262:LEU:C	2.39	0.47
1:AS:212:GLU:OE1	1:AS:212:GLU:HA	2.15	0.47
1:AS:422:LYS:HA	1:AS:422:LYS:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:510:LEU:HD23	1:AT:510:LEU:N	2.29	0.47
1:AW:511:ARG:HH12	1:AW:512:LEU:HD13	1.80	0.47
1:AX:328:VAL:C	1:AX:329:PHE:CD1	2.93	0.47
1:A1:90:ASP:OD1	1:A1:90:ASP:C	2.58	0.47
1:A1:201:LYS:HA	1:A1:208:ASP:CB	2.45	0.47
1:A1:281:ASP:HB2	1:AI:382:ASN:ND2	2.30	0.47
1:A2:281:ASP:OD1	1:A2:283:ARG:HG2	2.14	0.47
1:A4:82:MET:HE1	1:A4:445:MET:SD	2.55	0.47
1:A4:337:ILE:HG22	1:A4:342:HIS:CG	2.50	0.47
1:A5:120:LEU:HD11	1:A5:166:SER:CB	2.45	0.47
1:A6:369:GLY:HA2	1:A6:374:GLN:NE2	2.30	0.47
1:A7:163:SER:OG	1:A7:168:LYS:HD3	2.14	0.47
1:A8:149:ILE:HD12	1:A8:455:THR:HG21	1.97	0.47
1:A9:426:ILE:HD12	1:A9:426:ILE:H	1.78	0.47
1:A9:442:ARG:HG2	1:AK:48:MET:HE1	1.97	0.47
1:AA:263:THR:HG22	1:AA:268:GLU:HG3	1.96	0.47
1:AC:259:VAL:HA	1:AC:324:ALA:HB2	1.96	0.47
1:AC:262:LEU:HD11	1:AC:319:VAL:CG2	2.44	0.47
1:AC:342:HIS:ND1	1:AC:343:ALA:N	2.62	0.47
1:AD:66:ARG:HG2	1:AD:66:ARG:HH11	1.80	0.47
1:AD:227:LEU:O	1:AD:231:ILE:HG13	2.14	0.47
1:AE:292:LYS:HD2	1:AE:298:GLU:HB3	1.96	0.47
1:AF:84:GLU:OE2	1:AF:84:GLU:HA	2.15	0.47
1:AF:161:ILE:HG12	1:AF:445:MET:HE1	1.97	0.47
1:AH:122:GLU:OE1	1:AI:454:THR:HB	2.14	0.47
1:AH:421:LEU:HD12	1:AH:421:LEU:O	2.15	0.47
1:AI:167:ASP:OD1	1:AI:168:LYS:HG3	2.15	0.47
1:AJ:107:GLU:H	1:AJ:107:GLU:CD	2.23	0.47
1:AJ:284:LEU:O	1:AJ:288:ILE:HG12	2.15	0.47
1:AJ:448:VAL:O	1:AJ:452:LEU:HG	2.15	0.47
1:AK:167:ASP:HA	1:AK:384:ARG:CB	2.39	0.47
1:AK:246:VAL:HG22	1:AK:346:GLY:HA3	1.96	0.47
1:AK:247:MET:HE3	1:AK:308:ASN:HB3	1.97	0.47
1:AK:259:VAL:O	1:AK:271:THR:HG23	2.15	0.47
1:AM:487:LYS:HD2	1:AR:6:ASN:C	2.40	0.47
1:AN:283:ARG:HG3	1:AN:284:LEU:N	2.29	0.47
1:AN:448:VAL:O	1:AN:452:LEU:HG	2.15	0.47
1:AO:149:ILE:CD1	1:AO:455:THR:HG21	2.40	0.47
1:AP:212:GLU:OE1	1:AP:212:GLU:HA	2.15	0.47
1:AQ:238:LEU:O	1:AQ:240:VAL:HG23	2.15	0.47
1:AQ:366:SER:HB2	1:AQ:374:GLN:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:281:ASP:OD2	1:AR:283:ARG:HB3	2.14	0.47
1:AS:366:SER:HB2	1:AS:374:GLN:OE1	2.15	0.47
1:AT:259:VAL:HA	1:AT:324:ALA:CB	2.44	0.47
1:AT:395:ALA:CB	1:AT:414:ILE:HG23	2.45	0.47
1:AT:422:LYS:O	1:AT:426:ILE:CD1	2.54	0.47
1:AV:395:ALA:CB	1:AV:414:ILE:HG23	2.45	0.47
1:A1:112:LEU:HD12	1:AO:46:SER:HB2	1.97	0.47
1:A2:166:SER:O	1:A2:383:LEU:HB3	2.15	0.47
1:A3:250:GLY:O	1:A3:306:ARG:HD2	2.14	0.47
1:A3:511:ARG:NH2	1:A3:512:LEU:HD22	2.30	0.47
1:A5:189:ALA:O	1:A5:192:ASN:HB2	2.14	0.47
1:A5:201:LYS:HA	1:A5:208:ASP:HB2	1.97	0.47
1:A5:234:PHE:CE2	1:AK:303:ILE:HD12	2.50	0.47
1:A5:259:VAL:HA	1:A5:324:ALA:HB2	1.97	0.47
1:A6:328:VAL:HG12	1:A6:329:PHE:CD1	2.46	0.47
1:A7:227:LEU:O	1:A7:231:ILE:HG13	2.15	0.47
1:A7:292:LYS:CD	1:A7:298:GLU:HA	2.45	0.47
1:A8:82:MET:HE1	1:A8:441:ILE:HG22	1.97	0.47
1:A9:451:GLU:HG3	1:AA:122:GLU:HB2	1.96	0.47
1:AA:293:ASP:OD1	1:AA:294:ARG:HG3	2.14	0.47
1:AB:65:ILE:CG1	1:AB:459:ILE:HD11	2.44	0.47
1:AB:93:LYS:CG	1:AH:60:ASN:HD21	2.25	0.47
1:AB:175:GLU:HA	1:AB:377:ALA:O	2.14	0.47
1:AB:421:LEU:HD21	1:AH:146:GLU:CD	2.40	0.47
1:AC:211:ILE:HD11	1:AC:238:LEU:CD1	2.41	0.47
1:AD:139:SER:OG	1:AO:233:ARG:HB2	2.15	0.47
1:AE:383:LEU:HA	1:AE:430:MET:HE3	1.96	0.47
1:AG:116:ILE:HD12	1:AG:418:VAL:HG21	1.97	0.47
1:AH:187:SER:HB3	1:AH:335:ALA:HB3	1.97	0.47
1:AI:183:GLY:O	1:AI:188:ALA:HB3	2.15	0.47
1:AJ:291:VAL:HG23	1:AJ:295:THR:HG23	1.96	0.47
1:AO:92:ILE:HD12	1:AO:92:ILE:H	1.78	0.47
1:AO:260:ARG:HA	1:AO:271:THR:OG1	2.15	0.47
1:AO:426:ILE:HD12	1:AO:426:ILE:H	1.80	0.47
1:AQ:83:ASP:HB2	1:AQ:442:ARG:CZ	2.45	0.47
1:AQ:293:ASP:C	1:AQ:293:ASP:OD1	2.57	0.47
1:AT:283:ARG:HG3	1:AT:284:LEU:N	2.30	0.47
1:AX:92:ILE:HD12	1:AX:92:ILE:H	1.80	0.47
1:AX:183:GLY:O	1:AX:188:ALA:HB3	2.15	0.47
1:A2:20:GLN:C	1:A2:20:GLN:OE1	2.58	0.46
1:A3:42:ALA:HB2	1:AS:449:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:472:GLN:HA	1:AT:4:ARG:HH11	1.80	0.46
1:A6:20:GLN:OE1	1:A6:20:GLN:C	2.58	0.46
1:A6:479:ALA:HA	1:AP:513:LEU:HD13	1.97	0.46
1:A7:196:VAL:CG2	1:A7:216:ILE:HD11	2.45	0.46
1:A7:234:PHE:HE2	1:AJ:303:ILE:O	1.98	0.46
1:A8:33:SER:HB2	1:AE:17:VAL:CG2	2.40	0.46
1:A9:201:LYS:HA	1:A9:208:ASP:CB	2.45	0.46
1:AA:283:ARG:HG3	1:AA:284:LEU:N	2.29	0.46
1:AB:371:HIS:HD2	1:AB:373:ALA:HB3	1.80	0.46
1:AC:66:ARG:HG2	1:AC:66:ARG:NH1	2.30	0.46
1:AE:89:LEU:CA	1:AE:92:ILE:HD12	2.45	0.46
1:AE:172:VAL:O	1:AE:380:THR:HA	2.14	0.46
1:AG:281:ASP:OD1	1:AG:283:ARG:HG2	2.14	0.46
1:AG:286:ASN:C	1:AG:286:ASN:OD1	2.58	0.46
1:AH:263:THR:HG22	1:AH:268:GLU:HG3	1.96	0.46
1:AI:20:GLN:C	1:AI:20:GLN:OE1	2.58	0.46
1:AI:97:VAL:HG22	1:AI:428:MET:HE2	1.96	0.46
1:AI:122:GLU:OE2	1:AO:454:THR:HB	2.15	0.46
1:AJ:454:THR:HB	1:AU:122:GLU:OE1	2.16	0.46
1:AN:65:ILE:CG1	1:AN:459:ILE:HD11	2.44	0.46
1:AN:174:MET:HE2	1:AN:398:ALA:HA	1.97	0.46
1:AO:145:LYS:HA	1:AQ:102:ASP:OD2	2.14	0.46
1:AO:259:VAL:HG12	1:AO:262:LEU:HB2	1.96	0.46
1:AP:192:ASN:HA	1:AP:367:HIS:CE1	2.50	0.46
1:AQ:81:ALA:CB	1:AQ:138:LEU:HD11	2.44	0.46
1:AQ:184:MET:HE1	1:AQ:345:ILE:CD1	2.45	0.46
1:AQ:251:GLY:H	1:AQ:332:GLY:CA	2.16	0.46
1:AQ:281:ASP:OD1	1:AQ:283:ARG:HG2	2.15	0.46
1:AQ:384:ARG:HD2	1:AQ:387:ARG:NH2	2.31	0.46
1:AR:88:ILE:HG22	1:AR:92:ILE:HD11	1.96	0.46
1:AU:201:LYS:O	1:AU:359:ILE:HD11	2.14	0.46
1:AU:201:LYS:HA	1:AU:208:ASP:HB2	1.98	0.46
1:AU:260:ARG:HA	1:AU:271:THR:OG1	2.15	0.46
1:AV:89:LEU:CA	1:AV:92:ILE:HD12	2.45	0.46
1:AW:189:ALA:HA	1:AW:192:ASN:CG	2.40	0.46
1:AW:244:TYR:C	1:AW:244:TYR:CD2	2.93	0.46
1:AX:251:GLY:N	1:AX:333:ASN:H	2.12	0.46
1:A1:41:ALA:HA	1:A1:48:MET:HE3	1.97	0.46
1:A2:478:PHE:HE2	1:AR:5:ILE:HG21	1.80	0.46
1:A2:502:ALA:O	1:A2:505:VAL:HG12	2.14	0.46
1:A3:212:GLU:HG3	1:AL:278:ASN:CG	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:259:VAL:O	1:A3:271:THR:HG23	2.15	0.46
1:A3:348:LEU:HD23	1:A3:349:THR:N	2.31	0.46
1:A3:510:LEU:HD12	1:A8:490:ILE:CG2	2.46	0.46
1:A4:446:GLY:HA3	1:AT:41:ALA:CB	2.44	0.46
1:A5:157:VAL:HG22	1:A5:451:GLU:OE2	2.15	0.46
1:A5:212:GLU:HG3	1:AK:305:GLY:HA3	1.96	0.46
1:A6:184:MET:HA	1:A6:192:ASN:ND2	2.23	0.46
1:A6:189:ALA:O	1:A6:192:ASN:HB2	2.14	0.46
1:A7:259:VAL:HA	1:A7:324:ALA:HB2	1.96	0.46
1:A8:175:GLU:HA	1:A8:377:ALA:O	2.14	0.46
1:A8:305:GLY:HA3	1:AE:212:GLU:HG3	1.97	0.46
1:A8:342:HIS:CE1	1:A8:344:VAL:HG23	2.51	0.46
1:A9:253:PRO:HB3	1:AH:212:GLU:OE2	2.15	0.46
1:A9:259:VAL:HA	1:A9:324:ALA:CB	2.45	0.46
1:A9:278:ASN:CG	1:AH:212:GLU:HG3	2.40	0.46
1:A9:451:GLU:O	1:AA:122:GLU:OE1	2.32	0.46
1:AC:426:ILE:HD12	1:AC:426:ILE:H	1.79	0.46
1:AD:46:SER:OG	1:AH:112:LEU:HD11	2.14	0.46
1:AD:203:VAL:HG21	1:AD:209:TYR:CD1	2.50	0.46
1:AE:201:LYS:HE2	1:AE:201:LYS:HB3	1.75	0.46
1:AE:216:ILE:HD13	1:AE:223:GLY:C	2.40	0.46
1:AG:352:ARG:HD2	1:AG:356:ARG:O	2.15	0.46
1:AG:448:VAL:HG22	1:AM:118:ARG:NH2	2.30	0.46
1:AL:291:VAL:HG23	1:AL:295:THR:HG23	1.97	0.46
1:AL:511:ARG:NH2	1:AL:512:LEU:HD13	2.30	0.46
1:AM:215:ARG:NH1	1:AM:215:ARG:CB	2.77	0.46
1:AM:224:ILE:HG13	1:AM:244:TYR:HB2	1.97	0.46
1:AM:395:ALA:CB	1:AM:414:ILE:HG23	2.45	0.46
1:AN:187:SER:HB3	1:AN:335:ALA:HB3	1.98	0.46
1:AN:510:LEU:HD23	1:AN:510:LEU:N	2.30	0.46
1:AP:170:GLY:HA2	1:AP:434:ALA:N	2.31	0.46
1:AR:20:GLN:OE1	1:AR:20:GLN:C	2.59	0.46
1:AR:83:ASP:HB2	1:AR:442:ARG:CZ	2.46	0.46
1:AR:187:SER:HB3	1:AR:335:ALA:HB3	1.97	0.46
1:AS:470:GLU:HA	1:AS:473:ILE:CG2	2.45	0.46
1:AT:366:SER:HB2	1:AT:374:GLN:OE1	2.15	0.46
1:AT:386:VAL:HG22	1:AT:427:VAL:HG22	1.98	0.46
1:AU:187:SER:HB3	1:AU:335:ALA:HB3	1.96	0.46
1:AV:281:ASP:OD2	1:AV:283:ARG:HB3	2.16	0.46
1:AW:20:GLN:C	1:AW:20:GLN:OE1	2.59	0.46
1:A2:383:LEU:HA	1:A2:430:MET:HE2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:211:ILE:HG22	1:A3:212:GLU:N	2.30	0.46
1:A3:212:GLU:OE1	1:A3:212:GLU:HA	2.16	0.46
1:A5:125:ASN:O	1:A5:129:THR:HG23	2.15	0.46
1:A5:325:SER:CB	1:A5:330:GLY:HA3	2.45	0.46
1:A7:8:ASN:HB3	1:A7:11:ALA:HB3	1.96	0.46
1:A7:60:ASN:HD21	1:AP:93:LYS:HE2	1.81	0.46
1:A7:189:ALA:HA	1:A7:192:ASN:ND2	2.31	0.46
1:A7:383:LEU:HA	1:A7:430:MET:HE2	1.98	0.46
1:A9:449:GLN:HE21	1:AK:42:ALA:HB2	1.79	0.46
1:AA:75:VAL:CG1	1:AA:445:MET:HG2	2.34	0.46
1:AA:125:ASN:O	1:AA:129:THR:HG23	2.15	0.46
1:AA:249:THR:HB	1:AA:308:ASN:OD1	2.15	0.46
1:AC:395:ALA:CB	1:AC:414:ILE:HG23	2.45	0.46
1:AD:81:ALA:HB3	1:AD:138:LEU:HD11	1.98	0.46
1:AD:473:ILE:HD12	1:AD:473:ILE:O	2.14	0.46
1:AH:510:LEU:HD23	1:AH:510:LEU:N	2.30	0.46
1:AJ:84:GLU:O	1:AJ:88:ILE:HG13	2.14	0.46
1:AJ:201:LYS:HB2	1:AJ:359:ILE:HG13	1.97	0.46
1:AL:42:ALA:HB2	1:AT:449:GLN:HE21	1.79	0.46
1:AM:93:LYS:HG2	1:AU:60:ASN:ND2	2.25	0.46
1:AQ:510:LEU:HD23	1:AQ:510:LEU:N	2.30	0.46
1:AR:218:THR:O	1:AR:315:ARG:HD3	2.15	0.46
1:AR:352:ARG:HD2	1:AR:356:ARG:O	2.15	0.46
1:AS:88:ILE:O	1:AS:92:ILE:CD1	2.56	0.46
1:AS:261:GLU:OE2	1:AS:322:ALA:HB2	2.16	0.46
1:AS:328:VAL:C	1:AS:329:PHE:CD1	2.94	0.46
1:AU:249:THR:HB	1:AU:308:ASN:OD1	2.15	0.46
1:AW:90:ASP:C	1:AW:90:ASP:OD1	2.59	0.46
1:A2:269:ILE:O	1:AR:356:ARG:HD2	2.15	0.46
1:A2:382:ASN:O	1:A2:430:MET:HE1	2.16	0.46
1:A2:384:ARG:HD2	1:A2:387:ARG:NH2	2.30	0.46
1:A6:263:THR:HG21	1:A6:268:GLU:HG3	1.96	0.46
1:A6:478:PHE:HE2	1:AP:5:ILE:HG21	1.80	0.46
1:A7:5:ILE:HD13	1:AL:490:ILE:CG2	2.46	0.46
1:A7:229:GLU:O	1:A7:233:ARG:HG3	2.15	0.46
1:A7:300:SER:O	1:A7:301:LEU:HD23	2.16	0.46
1:A8:216:ILE:HD13	1:A8:223:GLY:CA	2.45	0.46
1:A9:116:ILE:CD1	1:A9:418:VAL:HG21	2.45	0.46
1:A9:234:PHE:CE1	1:AA:303:ILE:HG13	2.50	0.46
1:AA:186:ALA:HB2	1:AA:334:PHE:HB2	1.97	0.46
1:AE:5:ILE:HG21	1:AK:478:PHE:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:20:GLN:C	1:AF:20:GLN:OE1	2.59	0.46
1:AF:88:ILE:O	1:AF:92:ILE:CD1	2.54	0.46
1:AG:259:VAL:HA	1:AG:324:ALA:CB	2.46	0.46
1:AH:98:GLN:HG2	1:AH:112:LEU:HD21	1.96	0.46
1:AH:186:ALA:HB3	1:AH:334:PHE:O	2.15	0.46
1:AI:262:LEU:HD12	1:AI:263:THR:N	2.31	0.46
1:AK:62:GLY:HA2	1:AK:65:ILE:HD12	1.97	0.46
1:AO:297:VAL:CG1	1:AO:309:LEU:HG	2.45	0.46
1:AO:470:GLU:HA	1:AO:473:ILE:CG2	2.46	0.46
1:AP:262:LEU:CD1	1:AP:319:VAL:HG23	2.45	0.46
1:AP:509:VAL:HG13	1:AP:510:LEU:N	2.31	0.46
1:AR:126:ILE:HG23	1:AU:458:ASN:ND2	2.27	0.46
1:AS:187:SER:HB3	1:AS:335:ALA:HB3	1.97	0.46
1:AS:302:ASP:CB	1:AS:308:ASN:HD21	2.28	0.46
1:AT:214:VAL:CG2	1:AT:230:ILE:HD13	2.45	0.46
1:AW:365:PHE:O	1:AW:368:VAL:HG12	2.16	0.46
1:AX:195:GLU:OE2	1:AX:215:ARG:HG2	2.14	0.46
1:A1:17:VAL:CG2	1:AB:33:SER:HB2	2.43	0.46
1:A1:186:ALA:HB3	1:A1:334:PHE:O	2.15	0.46
1:A1:421:LEU:HD21	1:AI:146:GLU:CD	2.41	0.46
1:A2:80:LYS:HG3	1:AM:461:VAL:CG1	2.45	0.46
1:A3:209:TYR:CE2	1:A3:237:THR:HG22	2.47	0.46
1:A4:126:ILE:HD13	1:AF:458:ASN:HD22	1.81	0.46
1:A5:117:GLN:C	1:A5:117:GLN:OE1	2.59	0.46
1:A5:133:ASN:ND2	1:AH:105:THR:HG23	2.30	0.46
1:A5:247:MET:HE2	1:A5:247:MET:HB3	1.80	0.46
1:A6:303:ILE:O	1:AT:234:PHE:HE2	1.98	0.46
1:A6:382:ASN:O	1:A6:430:MET:HE1	2.16	0.46
1:A6:511:ARG:HH12	1:A6:512:LEU:HD13	1.81	0.46
1:A7:6:ASN:HD22	1:AP:36:LEU:CD2	2.29	0.46
1:A7:104:GLN:HB3	1:A7:108:SER:OG	2.15	0.46
1:A7:458:ASN:HB2	1:AJ:84:GLU:HG2	1.97	0.46
1:A8:325:SER:CB	1:A8:330:GLY:HA3	2.45	0.46
1:A9:293:ASP:OD1	1:A9:294:ARG:HG3	2.15	0.46
1:A9:452:LEU:HA	1:A9:455:THR:CG2	2.46	0.46
1:AA:166:SER:O	1:AA:383:LEU:HB3	2.15	0.46
1:AA:189:ALA:HA	1:AA:192:ASN:CG	2.41	0.46
1:AA:214:VAL:HG11	1:AA:227:LEU:HA	1.98	0.46
1:AA:371:HIS:HD2	1:AA:373:ALA:HB3	1.80	0.46
1:AB:92:ILE:HD12	1:AB:92:ILE:H	1.80	0.46
1:AC:6:ASN:OD1	1:AU:491:LEU:HD11	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:507:GLN:HA	1:AO:490:ILE:CD1	2.45	0.46
1:AE:206:VAL:HG11	1:AK:294:ARG:NH2	2.30	0.46
1:AE:259:VAL:HA	1:AE:324:ALA:HB1	1.97	0.46
1:AE:426:ILE:HD12	1:AE:426:ILE:H	1.81	0.46
1:AF:102:ASP:OD2	1:AS:145:LYS:HA	2.15	0.46
1:AF:186:ALA:HB3	1:AF:334:PHE:O	2.15	0.46
1:AH:262:LEU:CD1	1:AH:319:VAL:HG23	2.45	0.46
1:AI:33:SER:HB2	1:AO:17:VAL:CG2	2.38	0.46
1:AI:250:GLY:HA2	1:AI:333:ASN:H	1.80	0.46
1:AI:259:VAL:O	1:AI:271:THR:HG23	2.16	0.46
1:AJ:383:LEU:HA	1:AJ:430:MET:CE	2.46	0.46
1:AK:68:ALA:HB2	1:AK:149:ILE:HG22	1.97	0.46
1:AK:201:LYS:HA	1:AK:208:ASP:CB	2.46	0.46
1:AL:167:ASP:HA	1:AL:384:ARG:CB	2.44	0.46
1:AL:224:ILE:CD1	1:AL:346:GLY:HA3	2.45	0.46
1:AL:234:PHE:CE2	1:AP:303:ILE:HD12	2.50	0.46
1:AL:325:SER:CB	1:AL:330:GLY:HA3	2.45	0.46
1:AL:511:ARG:NH1	1:AL:512:LEU:HD12	2.22	0.46
1:AM:189:ALA:HA	1:AM:192:ASN:CG	2.41	0.46
1:AM:259:VAL:HA	1:AM:324:ALA:CB	2.45	0.46
1:AM:470:GLU:HA	1:AM:473:ILE:HG22	1.97	0.46
1:AN:251:GLY:H	1:AN:332:GLY:CA	2.15	0.46
1:AP:167:ASP:HA	1:AP:384:ARG:CB	2.43	0.46
1:AR:92:ILE:HD12	1:AR:92:ILE:H	1.81	0.46
1:AR:212:GLU:OE1	1:AR:212:GLU:HA	2.14	0.46
1:AV:44:ASP:C	1:AV:44:ASP:OD1	2.58	0.46
1:AV:189:ALA:HA	1:AV:192:ASN:CG	2.41	0.46
1:AV:302:ASP:HB3	1:AV:308:ASN:ND2	2.30	0.46
1:AV:423:GLY:O	1:AV:427:VAL:HG23	2.15	0.46
1:AW:459:ILE:HG13	1:AW:460:SER:N	2.29	0.46
1:A1:50:ILE:HD11	1:AB:133:ASN:HD21	1.80	0.46
1:A1:278:ASN:CG	1:AQ:212:GLU:HG3	2.41	0.46
1:A2:212:GLU:OE2	1:AV:253:PRO:HB3	2.16	0.46
1:A3:353:THR:HG23	1:A3:433:SER:CB	2.37	0.46
1:A4:421:LEU:HD21	1:AT:146:GLU:CD	2.40	0.46
1:A4:475:ASP:OD1	1:AT:6:ASN:HB2	2.15	0.46
1:A5:137:MET:HB2	1:A5:138:LEU:HD12	1.98	0.46
1:A5:328:VAL:C	1:A5:329:PHE:CD1	2.94	0.46
1:A6:231:ILE:HG21	1:A6:242:ALA:HB2	1.98	0.46
1:A6:247:MET:HE1	1:AP:144:ASN:ND2	2.30	0.46
1:A7:42:ALA:HB2	1:AP:449:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:145:LYS:HA	1:AP:102:ASP:OD2	2.15	0.46
1:A7:369:GLY:HA2	1:A7:374:GLN:HE22	1.81	0.46
1:A8:201:LYS:HB2	1:A8:359:ILE:CG1	2.46	0.46
1:A9:20:GLN:OE1	1:A9:20:GLN:C	2.58	0.46
1:A9:186:ALA:HB3	1:A9:334:PHE:O	2.15	0.46
1:A9:201:LYS:HB2	1:A9:359:ILE:CG1	2.46	0.46
1:A9:215:ARG:HB3	1:A9:215:ARG:HH11	1.80	0.46
1:AB:422:LYS:HA	1:AB:422:LYS:HE3	1.97	0.46
1:AC:33:SER:HB2	1:AX:17:VAL:CG2	2.38	0.46
1:AC:138:LEU:HD12	1:AC:138:LEU:H	1.80	0.46
1:AD:5:ILE:HD12	1:AI:478:PHE:CD2	2.50	0.46
1:AD:120:LEU:HD23	1:AD:120:LEU:C	2.40	0.46
1:AE:46:SER:HB2	1:AN:112:LEU:HD12	1.96	0.46
1:AE:183:GLY:O	1:AE:188:ALA:HB3	2.15	0.46
1:AE:291:VAL:HG23	1:AE:295:THR:HG23	1.98	0.46
1:AE:369:GLY:HA2	1:AE:374:GLN:NE2	2.31	0.46
1:AF:196:VAL:O	1:AF:196:VAL:HG23	2.16	0.46
1:AG:50:ILE:HD11	1:AM:133:ASN:ND2	2.31	0.46
1:AG:60:ASN:HD21	1:AW:93:LYS:CD	2.29	0.46
1:AG:471:SER:HB2	1:AG:475:ASP:OD2	2.15	0.46
1:AH:29:LEU:HD23	1:AH:29:LEU:HA	1.80	0.46
1:AH:234:PHE:HB3	1:AH:238:LEU:HD13	1.97	0.46
1:AJ:264:ILE:HD12	1:AJ:295:THR:HB	1.97	0.46
1:AK:201:LYS:HE2	1:AK:201:LYS:HB3	1.74	0.46
1:AK:281:ASP:OD1	1:AK:283:ARG:HG2	2.15	0.46
1:AL:74:MET:HB3	1:AL:137:MET:HE1	1.98	0.46
1:AL:99:ALA:HB2	1:AL:112:LEU:HD22	1.97	0.46
1:AM:68:ALA:HB2	1:AM:149:ILE:CG2	2.45	0.46
1:AM:186:ALA:HB3	1:AM:334:PHE:O	2.16	0.46
1:AO:231:ILE:HG21	1:AO:242:ALA:HB2	1.96	0.46
1:AP:281:ASP:OD1	1:AP:283:ARG:HG2	2.16	0.46
1:AR:86:ILE:HD13	1:AR:439:ASP:OD1	2.15	0.46
1:AR:211:ILE:HD11	1:AR:238:LEU:CD1	2.43	0.46
1:AS:186:ALA:HB3	1:AS:334:PHE:O	2.15	0.46
1:AS:511:ARG:NH2	1:AS:512:LEU:HD13	2.30	0.46
1:AT:192:ASN:HA	1:AT:367:HIS:CE1	2.50	0.46
1:AV:328:VAL:C	1:AV:329:PHE:CD1	2.93	0.46
1:AX:65:ILE:HG12	1:AX:459:ILE:CD1	2.44	0.46
1:A1:174:MET:HE2	1:A1:174:MET:HB2	1.77	0.46
1:A3:184:MET:CE	1:A3:345:ILE:HD11	2.44	0.46
1:A3:363:VAL:HG22	1:A3:364:ASN:OD1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:281:ASP:OD1	1:A4:283:ARG:HG2	2.16	0.46
1:A6:126:ILE:HG23	1:AT:458:ASN:HD21	1.80	0.46
1:A6:293:ASP:OD2	1:A6:293:ASP:C	2.59	0.46
1:A7:65:ILE:CG1	1:A7:459:ILE:HD11	2.46	0.46
1:A8:50:ILE:HD11	1:AS:133:ASN:ND2	2.31	0.46
1:A8:110:ARG:HG3	1:A8:110:ARG:HH11	1.81	0.46
1:A8:174:MET:CE	1:A8:398:ALA:HB2	2.46	0.46
1:A8:328:VAL:C	1:A8:329:PHE:CD1	2.94	0.46
1:A9:80:LYS:HG3	1:AH:461:VAL:CG1	2.46	0.46
1:A9:470:GLU:HA	1:A9:473:ILE:CG2	2.45	0.46
1:AB:189:ALA:HB3	1:AB:343:ALA:HB3	1.98	0.46
1:AC:297:VAL:CG2	1:AC:317:ILE:HG12	2.45	0.46
1:AC:447:SER:OG	1:AO:118:ARG:HG3	2.16	0.46
1:AD:250:GLY:HA2	1:AD:333:ASN:H	1.81	0.46
1:AE:124:ASP:OD2	1:AE:166:SER:HB3	2.16	0.46
1:AF:179:PHE:CD1	1:AF:184:MET:HE2	2.48	0.46
1:AF:189:ALA:HA	1:AF:192:ASN:ND2	2.31	0.46
1:AF:281:ASP:OD1	1:AF:283:ARG:HG2	2.15	0.46
1:AG:173:ARG:HD2	1:AG:357:ASP:HA	1.95	0.46
1:AG:422:LYS:HA	1:AG:422:LYS:HE3	1.98	0.46
1:AH:224:ILE:HD11	1:AH:246:VAL:CG2	2.45	0.46
1:AJ:212:GLU:OE1	1:AJ:212:GLU:N	2.48	0.46
1:AJ:454:THR:HB	1:AU:122:GLU:OE2	2.16	0.46
1:AJ:475:ASP:C	1:AJ:475:ASP:OD1	2.58	0.46
1:AM:173:ARG:HD2	1:AM:357:ASP:HA	1.97	0.46
1:AN:85:GLN:OE1	1:AN:123:LEU:HG	2.16	0.46
1:AN:262:LEU:CD1	1:AN:319:VAL:HG23	2.46	0.46
1:AO:211:ILE:CD1	1:AO:234:PHE:HD1	2.29	0.46
1:AQ:218:THR:O	1:AQ:315:ARG:HD3	2.16	0.46
1:AU:174:MET:HE3	1:AU:398:ALA:CA	2.45	0.46
1:AV:389:ILE:HG13	1:AV:415:GLY:C	2.40	0.46
1:AX:173:ARG:HD2	1:AX:357:ASP:HA	1.96	0.46
1:A2:231:ILE:HG21	1:A2:242:ALA:HB2	1.97	0.46
1:A3:259:VAL:HA	1:A3:324:ALA:HB1	1.98	0.46
1:A5:510:LEU:HD12	1:AI:490:ILE:HG23	1.98	0.46
1:A6:470:GLU:HA	1:A6:473:ILE:CG2	2.46	0.46
1:A7:250:GLY:O	1:A7:306:ARG:HD2	2.15	0.46
1:A7:353:THR:HG23	1:A7:433:SER:CB	2.38	0.46
1:A7:371:HIS:CB	1:A7:374:GLN:HG3	2.34	0.46
1:A7:502:ALA:O	1:A7:505:VAL:HG12	2.16	0.46
1:A8:48:MET:HE3	1:A8:48:MET:HB3	1.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:110:ARG:CZ	1:A8:110:ARG:HB2	2.46	0.46
1:A8:129:THR:CG2	1:AE:155:THR:HG23	2.45	0.46
1:A8:189:ALA:HA	1:A8:192:ASN:CG	2.41	0.46
1:A8:422:LYS:HA	1:A8:422:LYS:HE3	1.98	0.46
1:A8:501:GLN:HG3	1:AS:485:PHE:CE2	2.50	0.46
1:AA:189:ALA:HA	1:AA:192:ASN:ND2	2.31	0.46
1:AC:60:ASN:HD21	1:AR:93:LYS:CG	2.28	0.46
1:AC:129:THR:CG2	1:AX:155:THR:HG23	2.46	0.46
1:AC:302:ASP:CB	1:AC:308:ASN:HD21	2.26	0.46
1:AD:166:SER:O	1:AD:383:LEU:HB3	2.15	0.46
1:AD:357:ASP:HB2	1:AI:271:THR:O	2.16	0.46
1:AE:81:ALA:CB	1:AE:138:LEU:HD11	2.46	0.46
1:AE:247:MET:HG2	1:AE:310:HIS:ND1	2.31	0.46
1:AF:382:ASN:O	1:AF:430:MET:HE1	2.16	0.46
1:AG:174:MET:HE3	1:AG:398:ALA:HA	1.97	0.46
1:AG:437:GLN:HE22	1:AW:286:ASN:ND2	2.14	0.46
1:AH:84:GLU:O	1:AH:88:ILE:HG13	2.16	0.46
1:AI:163:SER:OG	1:AI:168:LYS:HD3	2.15	0.46
1:AJ:136:GLN:HB3	1:AJ:139:SER:OG	2.16	0.46
1:AJ:212:GLU:HG3	1:AU:305:GLY:HA3	1.96	0.46
1:AJ:251:GLY:N	1:AJ:333:ASN:H	2.12	0.46
1:AK:395:ALA:CB	1:AK:414:ILE:HG23	2.45	0.46
1:AL:175:GLU:HA	1:AL:377:ALA:O	2.15	0.46
1:AL:510:LEU:HD12	1:AS:490:ILE:CG2	2.46	0.46
1:AM:15:HIS:HA	1:AM:499:MET:HE3	1.97	0.46
1:AM:449:GLN:NE2	1:AU:42:ALA:HB2	2.31	0.46
1:AO:227:LEU:O	1:AO:230:ILE:HG12	2.15	0.46
1:AO:363:VAL:HG22	1:AO:364:ASN:OD1	2.16	0.46
1:AP:167:ASP:CA	1:AP:384:ARG:HB2	2.44	0.46
1:AQ:211:ILE:HD11	1:AQ:238:LEU:CD2	2.39	0.46
1:AQ:303:ILE:O	1:AR:234:PHE:HE1	1.98	0.46
1:AR:283:ARG:HG3	1:AR:284:LEU:N	2.30	0.46
1:AR:305:GLY:CA	1:AU:212:GLU:HG3	2.46	0.46
1:AS:173:ARG:HD2	1:AS:357:ASP:HA	1.96	0.46
1:AS:174:MET:HE3	1:AS:398:ALA:HA	1.97	0.46
1:AS:342:HIS:ND1	1:AS:343:ALA:N	2.63	0.46
1:AT:173:ARG:HD2	1:AT:357:ASP:HA	1.97	0.46
1:AT:187:SER:HB3	1:AT:335:ALA:HB3	1.98	0.46
1:AU:174:MET:CE	1:AU:398:ALA:HB2	2.45	0.46
1:AW:363:VAL:HG22	1:AW:364:ASN:OD1	2.16	0.46
1:A1:129:THR:CG2	1:AQ:155:THR:HG23	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:189:ALA:O	1:A1:192:ASN:HB2	2.15	0.46
1:A1:189:ALA:HB3	1:A1:343:ALA:HB3	1.98	0.46
1:A1:508:ASN:ND2	1:A1:509:VAL:N	2.63	0.46
1:A2:189:ALA:HB3	1:A2:343:ALA:HB3	1.97	0.46
1:A3:211:ILE:CD1	1:A3:234:PHE:HD2	2.29	0.46
1:A4:189:ALA:HA	1:A4:192:ASN:CG	2.41	0.46
1:A4:189:ALA:O	1:A4:192:ASN:HB2	2.15	0.46
1:A5:4:ARG:HH11	1:AH:472:GLN:HA	1.78	0.46
1:A5:145:LYS:HA	1:AH:102:ASP:OD2	2.16	0.46
1:A5:448:VAL:O	1:A5:452:LEU:HG	2.16	0.46
1:A5:484:ASN:OD1	1:A5:488:TYR:HE2	1.98	0.46
1:A7:35:GLY:C	1:A7:476:VAL:HG12	2.41	0.46
1:A8:184:MET:HE1	1:A8:345:ILE:CD1	2.46	0.46
1:A8:250:GLY:HA2	1:A8:333:ASN:H	1.80	0.46
1:A8:496:SER:HA	1:A8:499:MET:HE3	1.98	0.46
1:A9:189:ALA:HA	1:A9:192:ASN:CG	2.41	0.46
1:A9:189:ALA:HA	1:A9:192:ASN:ND2	2.30	0.46
1:AC:382:ASN:O	1:AC:430:MET:HE1	2.15	0.46
1:AE:14:SER:HB3	1:AE:499:MET:HG3	1.97	0.46
1:AE:60:ASN:HD21	1:AK:93:LYS:CD	2.29	0.46
1:AE:437:GLN:O	1:AE:441:ILE:HG13	2.16	0.46
1:AF:11:ALA:HA	1:AF:14:SER:OG	2.16	0.46
1:AH:209:TYR:CE1	1:AH:237:THR:HG22	2.51	0.46
1:AH:283:ARG:HG3	1:AH:284:LEU:N	2.31	0.46
1:AJ:76:GLN:HG2	1:AJ:449:GLN:OE1	2.16	0.46
1:AK:68:ALA:HB2	1:AK:149:ILE:CG2	2.46	0.46
1:AK:293:ASP:C	1:AK:293:ASP:OD1	2.59	0.46
1:AK:369:GLY:HA2	1:AK:374:GLN:NE2	2.31	0.46
1:AL:259:VAL:HA	1:AL:324:ALA:HB2	1.98	0.46
1:AL:260:ARG:HA	1:AL:271:THR:OG1	2.15	0.46
1:AL:383:LEU:HA	1:AL:430:MET:HE3	1.96	0.46
1:AL:513:LEU:CD1	1:AT:479:ALA:HA	2.45	0.46
1:AM:175:GLU:HA	1:AM:377:ALA:O	2.16	0.46
1:AN:120:LEU:HD21	1:AN:166:SER:OG	2.16	0.46
1:AO:369:GLY:HA2	1:AO:374:GLN:NE2	2.31	0.46
1:AQ:186:ALA:HB2	1:AQ:334:PHE:HB2	1.94	0.46
1:AR:112:LEU:HD12	1:AX:46:SER:HB2	1.97	0.46
1:AR:167:ASP:HB3	1:AR:384:ARG:CZ	2.46	0.46
1:AV:65:ILE:CG1	1:AV:459:ILE:HD11	2.45	0.46
1:AX:57:GLN:O	1:AX:61:LEU:HG	2.16	0.46
1:AX:423:GLY:CA	1:AX:426:ILE:HD12	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:225:GLY:HA2	1:A1:244:TYR:CD1	2.51	0.46
1:A1:422:LYS:HA	1:A1:422:LYS:HE3	1.98	0.46
1:A1:475:ASP:CB	1:AI:4:ARG:HG2	2.46	0.46
1:A2:260:ARG:HA	1:A2:271:THR:OG1	2.16	0.46
1:A4:149:ILE:HD12	1:A4:455:THR:HG21	1.97	0.46
1:A4:174:MET:CE	1:A4:398:ALA:HB2	2.46	0.46
1:A4:278:ASN:CG	1:AF:212:GLU:HG3	2.41	0.46
1:A4:511:ARG:HH12	1:A4:512:LEU:HD13	1.81	0.46
1:A5:187:SER:HB3	1:A5:335:ALA:HB3	1.99	0.46
1:A5:328:VAL:HG12	1:A5:329:PHE:CD1	2.50	0.46
1:A5:454:THR:HB	1:AK:122:GLU:CD	2.40	0.46
1:A6:234:PHE:HE1	1:AW:303:ILE:O	1.99	0.46
1:A8:9:ILE:CD1	1:AN:468:ALA:HA	2.46	0.46
1:A8:92:ILE:HD12	1:A8:92:ILE:H	1.81	0.46
1:A8:118:ARG:HG3	1:AE:447:SER:OG	2.16	0.46
1:A9:451:GLU:CG	1:AA:122:GLU:OE1	2.63	0.46
1:AA:83:ASP:HB2	1:AA:442:ARG:CZ	2.45	0.46
1:AB:107:GLU:H	1:AB:107:GLU:CD	2.24	0.46
1:AD:363:VAL:HG22	1:AD:364:ASN:OD1	2.16	0.46
1:AF:201:LYS:HA	1:AF:208:ASP:CB	2.46	0.46
1:AF:470:GLU:HA	1:AF:473:ILE:CG2	2.46	0.46
1:AG:418:VAL:O	1:AG:418:VAL:HG12	2.16	0.46
1:AG:461:VAL:CG1	1:AM:80:LYS:HG3	2.46	0.46
1:AI:100:ALA:HB2	1:AI:424:ALA:HB1	1.97	0.46
1:AJ:259:VAL:O	1:AJ:271:THR:HG23	2.16	0.46
1:AK:451:GLU:CG	1:AN:122:GLU:CG	2.89	0.46
1:AL:5:ILE:HG12	1:AS:490:ILE:CG2	2.46	0.46
1:AL:92:ILE:HG23	1:AL:116:ILE:CG2	2.46	0.46
1:AL:184:MET:SD	1:AL:345:ILE:HD11	2.55	0.46
1:AO:83:ASP:C	1:AO:83:ASP:OD2	2.59	0.46
1:AO:328:VAL:C	1:AO:329:PHE:CD1	2.94	0.46
1:AP:93:LYS:O	1:AP:97:VAL:HG23	2.16	0.46
1:AQ:125:ASN:O	1:AQ:129:THR:HG23	2.16	0.46
1:AQ:174:MET:HE2	1:AQ:174:MET:HB2	1.72	0.46
1:AQ:437:GLN:NE2	1:AV:286:ASN:HD21	2.13	0.46
1:AT:511:ARG:NH1	1:AT:512:LEU:HB2	2.31	0.46
1:AV:108:SER:O	1:AV:112:LEU:HD12	2.16	0.46
1:A2:84:GLU:OE1	1:A2:84:GLU:HA	2.16	0.45
1:A3:7:THR:OG1	1:AS:471:SER:HB2	2.15	0.45
1:A4:175:GLU:HA	1:A4:377:ALA:O	2.15	0.45
1:A4:271:THR:HG22	1:A4:273:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:163:SER:OG	1:A5:168:LYS:HD3	2.16	0.45
1:A5:251:GLY:N	1:A5:333:ASN:H	2.14	0.45
1:A5:510:LEU:HD22	1:A5:514:GLN:HE21	1.81	0.45
1:A6:86:ILE:HD13	1:A6:439:ASP:OD1	2.16	0.45
1:A6:259:VAL:O	1:A6:271:THR:HG23	2.16	0.45
1:A6:363:VAL:HG22	1:A6:364:ASN:OD1	2.15	0.45
1:A8:352:ARG:HD2	1:A8:356:ARG:O	2.16	0.45
1:A9:92:ILE:HD12	1:A9:92:ILE:H	1.80	0.45
1:AB:189:ALA:HA	1:AB:192:ASN:CG	2.42	0.45
1:AC:342:HIS:HE1	1:AC:344:VAL:CG2	2.29	0.45
1:AD:201:LYS:HB2	1:AD:359:ILE:HG13	1.96	0.45
1:AD:513:LEU:HD13	1:AI:479:ALA:HA	1.98	0.45
1:AF:184:MET:HA	1:AF:192:ASN:ND2	2.17	0.45
1:AF:211:ILE:HD12	1:AF:234:PHE:HD1	1.81	0.45
1:AG:36:LEU:HD21	1:AJ:6:ASN:HD22	1.81	0.45
1:AG:36:LEU:CD2	1:AJ:6:ASN:HD22	2.29	0.45
1:AH:62:GLY:HA2	1:AH:65:ILE:HD12	1.98	0.45
1:AH:186:ALA:HB2	1:AH:334:PHE:HB2	1.96	0.45
1:AH:260:ARG:HA	1:AH:271:THR:OG1	2.16	0.45
1:AI:293:ASP:OD2	1:AI:293:ASP:C	2.58	0.45
1:AJ:342:HIS:HE1	1:AJ:344:VAL:CG2	2.29	0.45
1:AK:283:ARG:HG3	1:AK:284:LEU:N	2.30	0.45
1:AL:50:ILE:HD12	1:AP:133:ASN:ND2	2.30	0.45
1:AL:166:SER:O	1:AL:383:LEU:HB3	2.16	0.45
1:AL:189:ALA:HA	1:AL:192:ASN:CG	2.41	0.45
1:AL:212:GLU:HG3	1:AP:305:GLY:HA3	1.98	0.45
1:AL:470:GLU:HA	1:AL:473:ILE:CG2	2.46	0.45
1:AM:366:SER:HB2	1:AM:374:GLN:OE1	2.17	0.45
1:AN:192:ASN:HA	1:AN:367:HIS:CE1	2.51	0.45
1:AO:38:ILE:HD11	1:AO:44:ASP:HB3	1.98	0.45
1:AP:231:ILE:HG21	1:AP:242:ALA:HB2	1.98	0.45
1:AP:281:ASP:OD2	1:AP:283:ARG:HB3	2.16	0.45
1:AR:61:LEU:HD12	1:AR:463:GLN:HA	1.97	0.45
1:AR:174:MET:HE3	1:AR:398:ALA:HA	1.97	0.45
1:AR:184:MET:CE	1:AR:345:ILE:HD11	2.47	0.45
1:AR:260:ARG:HA	1:AR:271:THR:OG1	2.16	0.45
1:AS:250:GLY:HA2	1:AS:333:ASN:H	1.81	0.45
1:AU:449:GLN:HE21	1:AX:42:ALA:HB2	1.80	0.45
1:AV:263:THR:HG22	1:AV:268:GLU:HG3	1.98	0.45
1:AW:258:THR:CG2	1:AW:273:ASN:HA	2.28	0.45
1:AX:264:ILE:HG22	1:AX:319:VAL:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:89:LEU:CA	1:A1:92:ILE:HD12	2.45	0.45
1:A2:218:THR:O	1:A2:315:ARG:HD3	2.16	0.45
1:A2:300:SER:O	1:A2:301:LEU:HD23	2.17	0.45
1:A3:499:MET:CE	1:A8:479:ALA:HB1	2.46	0.45
1:A5:458:ASN:HB2	1:AK:84:GLU:HG2	1.98	0.45
1:A6:449:GLN:NE2	1:AP:42:ALA:HB2	2.31	0.45
1:A7:192:ASN:HA	1:A7:367:HIS:CE1	2.50	0.45
1:A7:297:VAL:CG1	1:A7:309:LEU:HG	2.46	0.45
1:A9:88:ILE:CD1	1:A9:122:GLU:OE1	2.64	0.45
1:A9:234:PHE:O	1:A9:238:LEU:HD12	2.16	0.45
1:AA:382:ASN:O	1:AA:430:MET:HE1	2.16	0.45
1:AC:99:ALA:CB	1:AC:112:LEU:HD22	2.35	0.45
1:AC:224:ILE:CD1	1:AC:346:GLY:HA3	2.46	0.45
1:AD:277:LYS:HG2	1:AD:278:ASN:ND2	2.31	0.45
1:AE:65:ILE:HG23	1:AE:456:ILE:HD12	1.98	0.45
1:AF:166:SER:O	1:AF:383:LEU:HB3	2.16	0.45
1:AG:227:LEU:O	1:AG:231:ILE:HG13	2.15	0.45
1:AG:458:ASN:HB2	1:AM:84:GLU:HG2	1.99	0.45
1:AH:75:VAL:HG13	1:AH:445:MET:CG	2.34	0.45
1:AH:352:ARG:HB3	1:AH:358:ILE:HD11	1.97	0.45
1:AI:117:GLN:C	1:AI:117:GLN:OE1	2.60	0.45
1:AI:328:VAL:C	1:AI:329:PHE:CD1	2.94	0.45
1:AI:509:VAL:CG1	1:AI:510:LEU:N	2.79	0.45
1:AJ:50:ILE:HD12	1:AU:133:ASN:ND2	2.31	0.45
1:AK:155:THR:HG23	1:AN:129:THR:CG2	2.43	0.45
1:AL:145:LYS:HA	1:AT:102:ASP:OD2	2.17	0.45
1:AL:172:VAL:O	1:AL:380:THR:HA	2.16	0.45
1:AN:82:MET:HG3	1:AN:138:LEU:HD11	1.98	0.45
1:AN:470:GLU:HA	1:AN:473:ILE:CG2	2.45	0.45
1:AO:216:ILE:HD13	1:AO:223:GLY:C	2.41	0.45
1:AO:235:SER:HB2	1:AO:240:VAL:O	2.16	0.45
1:AQ:145:LYS:HA	1:AV:102:ASP:OD2	2.16	0.45
1:AQ:422:LYS:HA	1:AQ:422:LYS:HE3	1.99	0.45
1:AR:366:SER:HB2	1:AR:374:GLN:OE1	2.17	0.45
1:AS:174:MET:CE	1:AS:398:ALA:HB2	2.45	0.45
1:AS:369:GLY:HA2	1:AS:374:GLN:NE2	2.31	0.45
1:AT:89:LEU:CA	1:AT:92:ILE:HD12	2.47	0.45
1:AU:149:ILE:CD1	1:AU:455:THR:HG21	2.44	0.45
1:AU:250:GLY:HA2	1:AU:333:ASN:H	1.82	0.45
1:AU:511:ARG:HG3	1:AU:512:LEU:N	2.30	0.45
1:AV:120:LEU:O	1:AV:124:ASP:OD1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:422:LYS:O	1:AW:426:ILE:CD1	2.52	0.45
1:A1:20:GLN:C	1:A1:20:GLN:OE1	2.59	0.45
1:A3:447:SER:OG	1:AL:118:ARG:HG3	2.17	0.45
1:A5:41:ALA:CB	1:AH:446:GLY:HA3	2.46	0.45
1:A6:84:GLU:O	1:A6:88:ILE:HG13	2.16	0.45
1:A6:149:ILE:HD11	1:A6:157:VAL:CG2	2.46	0.45
1:A7:74:MET:CE	1:A7:137:MET:HE1	2.46	0.45
1:A7:447:SER:OG	1:AJ:118:ARG:HG3	2.17	0.45
1:AA:319:VAL:H	1:AA:342:HIS:HD2	1.64	0.45
1:AB:423:GLY:O	1:AB:427:VAL:HG23	2.16	0.45
1:AC:201:LYS:HA	1:AC:208:ASP:HB2	1.99	0.45
1:AC:260:ARG:HA	1:AC:271:THR:OG1	2.17	0.45
1:AD:48:MET:HE3	1:AD:48:MET:HB3	1.86	0.45
1:AD:83:ASP:HB2	1:AD:442:ARG:HH21	1.81	0.45
1:AD:184:MET:SD	1:AD:345:ILE:HD11	2.57	0.45
1:AD:259:VAL:O	1:AD:271:THR:HG23	2.16	0.45
1:AD:325:SER:CB	1:AD:330:GLY:HA3	2.46	0.45
1:AE:76:GLN:HG3	1:AE:449:GLN:OE1	2.16	0.45
1:AE:166:SER:O	1:AE:383:LEU:HB3	2.17	0.45
1:AH:82:MET:HE1	1:AH:441:ILE:CB	2.46	0.45
1:AH:386:VAL:HG23	1:AH:430:MET:SD	2.55	0.45
1:AJ:35:GLY:C	1:AJ:476:VAL:HG12	2.41	0.45
1:AK:510:LEU:N	1:AK:510:LEU:HD23	2.32	0.45
1:AK:511:ARG:NH2	1:AK:512:LEU:HD13	2.31	0.45
1:AL:352:ARG:HD2	1:AL:356:ARG:O	2.16	0.45
1:AO:60:ASN:HD21	1:AQ:93:LYS:HG2	1.81	0.45
1:AO:201:LYS:HE2	1:AO:201:LYS:HB3	1.74	0.45
1:AP:120:LEU:HD21	1:AP:166:SER:OG	2.15	0.45
1:AP:174:MET:HE3	1:AP:174:MET:HB2	1.86	0.45
1:AR:29:LEU:HD21	1:AR:485:PHE:CE1	2.51	0.45
1:AS:83:ASP:HB2	1:AS:442:ARG:CZ	2.46	0.45
1:AS:190:ALA:O	1:AS:193:LEU:HG	2.16	0.45
1:AS:458:ASN:ND2	1:AT:126:ILE:HG23	2.29	0.45
1:AU:366:SER:HB2	1:AU:374:GLN:OE1	2.17	0.45
1:AV:120:LEU:HD21	1:AV:383:LEU:HD11	1.98	0.45
1:AV:175:GLU:HA	1:AV:377:ALA:O	2.17	0.45
1:AW:281:ASP:OD1	1:AW:283:ARG:HG2	2.16	0.45
1:AX:422:LYS:C	1:AX:426:ILE:HD12	2.38	0.45
1:AX:470:GLU:HA	1:AX:473:ILE:CG2	2.46	0.45
1:A3:342:HIS:CD2	1:A3:343:ALA:N	2.84	0.45
1:A4:269:ILE:O	1:AT:356:ARG:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:48:MET:HG3	1:AH:442:ARG:NH1	2.32	0.45
1:A6:421:LEU:HD21	1:AP:146:GLU:CD	2.42	0.45
1:A7:201:LYS:HA	1:A7:208:ASP:CB	2.47	0.45
1:A8:426:ILE:HD12	1:A8:426:ILE:H	1.81	0.45
1:A9:125:ASN:O	1:A9:129:THR:HG23	2.16	0.45
1:A9:183:GLY:O	1:A9:188:ALA:HB3	2.16	0.45
1:A9:218:THR:O	1:A9:315:ARG:HD3	2.16	0.45
1:A9:251:GLY:H	1:A9:332:GLY:CA	2.15	0.45
1:AB:189:ALA:HA	1:AB:192:ASN:ND2	2.31	0.45
1:AC:85:GLN:OE1	1:AC:123:LEU:HG	2.15	0.45
1:AC:189:ALA:HA	1:AC:192:ASN:CG	2.41	0.45
1:AC:206:VAL:HG13	1:AC:207:ASN:OD1	2.16	0.45
1:AC:363:VAL:HG22	1:AC:364:ASN:OD1	2.16	0.45
1:AC:421:LEU:O	1:AC:425:MET:HG2	2.17	0.45
1:AC:458:ASN:HB2	1:AO:84:GLU:HG2	1.97	0.45
1:AF:438:LEU:HD23	1:AF:438:LEU:HA	1.84	0.45
1:AG:212:GLU:OE2	1:AM:253:PRO:HB3	2.15	0.45
1:AH:189:ALA:HA	1:AH:192:ASN:ND2	2.31	0.45
1:AH:281:ASP:OD1	1:AH:283:ARG:HG2	2.16	0.45
1:AI:174:MET:CE	1:AI:398:ALA:HB2	2.46	0.45
1:AI:258:THR:CG2	1:AI:273:ASN:HA	2.27	0.45
1:AK:17:VAL:HG11	1:AN:34:SER:CA	2.43	0.45
1:AL:6:ASN:ND2	1:AT:36:LEU:HD21	2.31	0.45
1:AL:85:GLN:OE1	1:AL:123:LEU:HG	2.16	0.45
1:AL:260:ARG:HH12	1:AL:323:SER:HB2	1.82	0.45
1:AM:258:THR:CG2	1:AM:273:ASN:HA	2.28	0.45
1:AN:422:LYS:HE3	1:AN:422:LYS:HA	1.99	0.45
1:AP:175:GLU:HA	1:AP:377:ALA:O	2.16	0.45
1:AQ:129:THR:CG2	1:AR:155:THR:HG23	2.45	0.45
1:AQ:511:ARG:NH1	1:AQ:512:LEU:HB2	2.31	0.45
1:AR:85:GLN:OE1	1:AR:123:LEU:HG	2.16	0.45
1:AR:262:LEU:CD1	1:AR:319:VAL:HG23	2.46	0.45
1:AS:189:ALA:HB3	1:AS:343:ALA:HB3	1.98	0.45
1:AS:328:VAL:HG12	1:AS:329:PHE:HD1	1.82	0.45
1:AT:97:VAL:HG22	1:AT:428:MET:HE2	1.99	0.45
1:AT:117:GLN:NE2	1:AT:387:ARG:HD2	2.32	0.45
1:AT:149:ILE:HD13	1:AT:157:VAL:CG1	2.46	0.45
1:AT:174:MET:CE	1:AT:398:ALA:HB2	2.46	0.45
1:AX:325:SER:CB	1:AX:330:GLY:HA3	2.47	0.45
1:AX:366:SER:HB2	1:AX:374:GLN:OE1	2.16	0.45
1:A1:214:VAL:HG11	1:A1:227:LEU:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:6:ASN:ND2	1:AS:36:LEU:HD23	2.32	0.45
1:A3:291:VAL:HG23	1:A3:295:THR:HG23	1.99	0.45
1:A5:35:GLY:C	1:A5:476:VAL:HG12	2.42	0.45
1:A5:186:ALA:HB3	1:A5:334:PHE:O	2.16	0.45
1:A5:451:GLU:HG3	1:AK:122:GLU:CG	2.47	0.45
1:A7:5:ILE:HD11	1:A7:510:LEU:HG	1.99	0.45
1:A7:278:ASN:OD1	1:A7:305:GLY:HA3	2.16	0.45
1:A7:337:ILE:HG22	1:A7:342:HIS:HB2	1.97	0.45
1:AB:251:GLY:CA	1:AB:332:GLY:HA3	2.46	0.45
1:AC:118:ARG:HG3	1:AX:447:SER:OG	2.16	0.45
1:AC:470:GLU:HA	1:AC:473:ILE:CG2	2.46	0.45
1:AC:510:LEU:HD12	1:AU:490:ILE:HG23	1.97	0.45
1:AE:42:ALA:HB2	1:AK:449:GLN:NE2	2.32	0.45
1:AE:511:ARG:HG3	1:AE:512:LEU:N	2.31	0.45
1:AG:146:GLU:CD	1:AW:421:LEU:HD21	2.41	0.45
1:AG:225:GLY:HA2	1:AG:244:TYR:CD1	2.51	0.45
1:AG:325:SER:CB	1:AG:330:GLY:HA3	2.46	0.45
1:AH:128:ASN:O	1:AH:136:GLN:NE2	2.42	0.45
1:AJ:447:SER:OG	1:AU:118:ARG:HG3	2.17	0.45
1:AJ:490:ILE:CD1	1:AX:507:GLN:HA	2.47	0.45
1:AK:179:PHE:CD1	1:AK:184:MET:HE2	2.49	0.45
1:AK:512:LEU:HD23	1:AN:496:SER:HB2	1.99	0.45
1:AL:212:GLU:OE1	1:AL:212:GLU:N	2.42	0.45
1:AM:120:LEU:CD2	1:AM:166:SER:HB2	2.46	0.45
1:AO:146:GLU:CD	1:AQ:421:LEU:HD21	2.41	0.45
1:AP:262:LEU:HD12	1:AP:263:THR:N	2.31	0.45
1:AP:352:ARG:HD3	1:AP:354:ASP:OD1	2.16	0.45
1:AQ:184:MET:HA	1:AQ:192:ASN:ND2	2.25	0.45
1:AQ:282:GLY:O	1:AQ:286:ASN:ND2	2.50	0.45
1:AS:386:VAL:HG23	1:AS:430:MET:CE	2.46	0.45
1:AV:470:GLU:HA	1:AV:473:ILE:CG2	2.46	0.45
1:AW:371:HIS:CB	1:AW:374:GLN:HG3	2.32	0.45
1:A1:451:GLU:O	1:AB:122:GLU:OE1	2.34	0.45
1:A1:508:ASN:HD22	1:A1:509:VAL:N	2.14	0.45
1:A2:50:ILE:HD12	1:A2:50:ILE:HA	1.76	0.45
1:A2:129:THR:CG2	1:AM:155:THR:HG23	2.47	0.45
1:A2:422:LYS:HE3	1:A2:422:LYS:HA	1.99	0.45
1:A2:485:PHE:CZ	1:AM:501:GLN:HG3	2.52	0.45
1:A4:80:LYS:HG3	1:AF:461:VAL:CG1	2.47	0.45
1:A4:97:VAL:HG22	1:A4:428:MET:SD	2.57	0.45
1:A4:470:GLU:HA	1:A4:473:ILE:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:46:SER:OG	1:A9:112:LEU:HD11	2.16	0.45
1:A5:175:GLU:HA	1:A5:377:ALA:O	2.16	0.45
1:A6:167:ASP:HA	1:A6:384:ARG:CB	2.44	0.45
1:A7:6:ASN:HD22	1:AP:36:LEU:HD21	1.80	0.45
1:A7:395:ALA:CB	1:A7:414:ILE:HG23	2.46	0.45
1:A9:122:GLU:HG3	1:AH:451:GLU:HG2	1.98	0.45
1:A9:234:PHE:CD1	1:AA:303:ILE:HG13	2.51	0.45
1:AA:92:ILE:HD12	1:AA:92:ILE:H	1.82	0.45
1:AC:189:ALA:HA	1:AC:192:ASN:ND2	2.32	0.45
1:AC:342:HIS:HE1	1:AC:344:VAL:HG23	1.80	0.45
1:AG:93:LYS:CD	1:AJ:60:ASN:HD21	2.30	0.45
1:AH:179:PHE:HD1	1:AH:184:MET:CE	2.26	0.45
1:AM:104:GLN:HB3	1:AM:108:SER:OG	2.16	0.45
1:AN:201:LYS:HE2	1:AN:201:LYS:HB3	1.75	0.45
1:AN:281:ASP:OD1	1:AN:283:ARG:HG2	2.16	0.45
1:AO:201:LYS:O	1:AO:359:ILE:HD11	2.15	0.45
1:AO:300:SER:C	1:AO:301:LEU:HD23	2.41	0.45
1:AO:302:ASP:C	1:AO:302:ASP:OD1	2.59	0.45
1:AP:117:GLN:HE22	1:AP:387:ARG:CD	2.29	0.45
1:AP:227:LEU:O	1:AP:230:ILE:HG12	2.17	0.45
1:AP:302:ASP:CB	1:AP:308:ASN:HD21	2.24	0.45
1:AQ:187:SER:HB3	1:AQ:335:ALA:HB3	1.99	0.45
1:AR:21:ASN:O	1:AR:21:ASN:ND2	2.50	0.45
1:AS:214:VAL:HG11	1:AS:227:LEU:HB2	1.99	0.45
1:AT:41:ALA:HA	1:AT:48:MET:CE	2.46	0.45
1:AU:233:ARG:HD2	1:AU:234:PHE:HE1	1.82	0.45
1:AU:283:ARG:HG3	1:AU:284:LEU:N	2.31	0.45
1:AV:186:ALA:HB2	1:AV:334:PHE:HB2	1.96	0.45
1:AW:100:ALA:HB2	1:AW:424:ALA:HB1	1.98	0.45
1:AW:189:ALA:HA	1:AW:192:ASN:ND2	2.32	0.45
1:AX:142:PHE:CZ	1:AX:145:LYS:HG3	2.52	0.45
1:A1:155:THR:HG23	1:AB:129:THR:CG2	2.47	0.45
1:A1:281:ASP:OD2	1:A1:283:ARG:HB3	2.17	0.45
1:A1:302:ASP:CB	1:A1:308:ASN:HD21	2.28	0.45
1:A1:371:HIS:CB	1:A1:374:GLN:HG3	2.32	0.45
1:A1:451:GLU:CG	1:AB:122:GLU:OE1	2.65	0.45
1:A2:423:GLY:HA2	1:A2:426:ILE:HD13	1.99	0.45
1:A2:446:GLY:HA3	1:AR:41:ALA:HB3	1.98	0.45
1:A2:478:PHE:HE2	1:AR:5:ILE:CG2	2.29	0.45
1:A4:116:ILE:HD12	1:A4:418:VAL:CG2	2.33	0.45
1:A4:294:ARG:HG3	1:A4:294:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:423:GLY:O	1:A5:427:VAL:HG23	2.16	0.45
1:A6:253:PRO:HB3	1:AT:212:GLU:OE2	2.16	0.45
1:A7:201:LYS:HB2	1:A7:359:ILE:CD1	2.47	0.45
1:A7:291:VAL:HG23	1:A7:295:THR:HG23	1.99	0.45
1:A7:422:LYS:C	1:A7:426:ILE:HD12	2.41	0.45
1:AA:120:LEU:HD22	1:AA:166:SER:HB2	1.97	0.45
1:AB:85:GLN:OE1	1:AB:123:LEU:HG	2.17	0.45
1:AC:353:THR:HG23	1:AC:433:SER:CB	2.40	0.45
1:AC:471:SER:O	1:AC:475:ASP:HB2	2.17	0.45
1:AD:201:LYS:HE2	1:AD:201:LYS:HB3	1.74	0.45
1:AF:395:ALA:CB	1:AF:414:ILE:HG23	2.46	0.45
1:AG:167:ASP:OD1	1:AG:168:LYS:HG3	2.17	0.45
1:AJ:247:MET:HE2	1:AJ:247:MET:HB3	1.82	0.45
1:AK:97:VAL:HG22	1:AK:428:MET:CE	2.42	0.45
1:AK:163:SER:OG	1:AK:168:LYS:HD3	2.16	0.45
1:AL:511:ARG:HG3	1:AL:512:LEU:N	2.31	0.45
1:AO:133:ASN:ND2	1:AQ:105:THR:HG23	2.31	0.45
1:AP:366:SER:HB2	1:AP:374:GLN:OE1	2.17	0.45
1:AQ:5:ILE:CG2	1:AV:478:PHE:HE2	2.30	0.45
1:AQ:117:GLN:NE2	1:AQ:387:ARG:HD2	2.32	0.45
1:AQ:303:ILE:HA	1:AR:234:PHE:CZ	2.52	0.45
1:AR:138:LEU:N	1:AR:138:LEU:HD23	2.32	0.45
1:AS:48:MET:HE3	1:AS:48:MET:HB3	1.85	0.45
1:AS:61:LEU:HD12	1:AS:463:GLN:HA	1.99	0.45
1:AS:146:GLU:HB3	1:AS:158:LYS:HE2	1.98	0.45
1:AT:92:ILE:HD12	1:AT:92:ILE:H	1.82	0.45
1:AT:281:ASP:OD2	1:AT:283:ARG:HB3	2.17	0.45
1:AU:157:VAL:HG22	1:AU:451:GLU:OE2	2.17	0.45
1:AU:300:SER:C	1:AU:301:LEU:HD23	2.41	0.45
1:A2:262:LEU:HD12	1:A2:263:THR:N	2.32	0.45
1:A2:449:GLN:NE2	1:AR:42:ALA:HB2	2.31	0.45
1:A2:461:VAL:CG1	1:AV:80:LYS:HG3	2.46	0.45
1:A2:478:PHE:CE2	1:AR:5:ILE:HG21	2.51	0.45
1:A3:62:GLY:HA2	1:A3:65:ILE:HD12	1.98	0.45
1:A4:195:GLU:HG3	1:A4:215:ARG:HG2	1.99	0.45
1:A4:201:LYS:HB2	1:A4:359:ILE:HG13	1.99	0.45
1:A5:173:ARG:HD2	1:A5:357:ASP:HA	1.96	0.45
1:A6:251:GLY:H	1:A6:332:GLY:CA	2.15	0.45
1:A6:478:PHE:HE2	1:AP:5:ILE:CG2	2.30	0.45
1:A6:495:GLY:O	1:A6:499:MET:HE2	2.17	0.45
1:A7:4:ARG:NH1	1:AP:472:GLN:HG2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:65:ILE:HG13	1:A8:459:ILE:HD11	1.99	0.45
1:A8:74:MET:HE2	1:A8:137:MET:HE1	1.98	0.45
1:A8:117:GLN:HE21	1:A8:387:ARG:HD2	1.81	0.45
1:A8:187:SER:HB3	1:A8:335:ALA:HB3	1.99	0.45
1:A8:259:VAL:HA	1:A8:324:ALA:HB2	1.99	0.45
1:A9:478:PHE:HE2	1:AK:5:ILE:CG2	2.30	0.45
1:AC:390:PHE:CE2	1:AC:417:GLY:HA2	2.52	0.45
1:AD:201:LYS:HA	1:AD:208:ASP:HB2	1.99	0.45
1:AD:246:VAL:HB	1:AD:311:SER:HB3	1.99	0.45
1:AD:418:VAL:HG22	1:AD:427:VAL:HG21	1.99	0.45
1:AE:167:ASP:CA	1:AE:384:ARG:HB2	2.45	0.45
1:AE:371:HIS:HB3	1:AE:374:GLN:CG	2.33	0.45
1:AF:189:ALA:HA	1:AF:192:ASN:CG	2.41	0.45
1:AH:120:LEU:HD21	1:AH:383:LEU:CD2	2.47	0.45
1:AI:92:ILE:CG2	1:AI:116:ILE:HG23	2.47	0.45
1:AJ:189:ALA:HA	1:AJ:192:ASN:CG	2.42	0.45
1:AL:62:GLY:HA2	1:AL:65:ILE:HD12	1.98	0.45
1:AL:423:GLY:O	1:AL:427:VAL:HG23	2.16	0.45
1:AM:166:SER:O	1:AM:383:LEU:HB3	2.17	0.45
1:AM:196:VAL:HG23	1:AM:196:VAL:O	2.16	0.45
1:AM:472:GLN:HA	1:AU:4:ARG:HH11	1.81	0.45
1:AN:108:SER:O	1:AN:112:LEU:HD12	2.16	0.45
1:AO:260:ARG:HH12	1:AO:323:SER:HB2	1.80	0.45
1:AO:352:ARG:HD2	1:AO:356:ARG:O	2.16	0.45
1:AO:423:GLY:O	1:AO:427:VAL:HG23	2.17	0.45
1:AP:284:LEU:O	1:AP:288:ILE:HG12	2.16	0.45
1:AR:118:ARG:HG3	1:AU:447:SER:OG	2.17	0.45
1:AR:211:ILE:CG1	1:AR:238:LEU:HD11	2.47	0.45
1:AS:230:ILE:HG13	1:AS:231:ILE:N	2.32	0.45
1:AU:251:GLY:H	1:AU:333:ASN:H	1.64	0.45
1:AU:446:GLY:HA3	1:AX:41:ALA:CB	2.47	0.45
1:AV:249:THR:HB	1:AV:308:ASN:OD1	2.17	0.45
1:AW:107:GLU:OE2	1:AW:107:GLU:N	2.38	0.45
1:AX:99:ALA:HB2	1:AX:112:LEU:CD2	2.30	0.45
1:AX:224:ILE:CD1	1:AX:346:GLY:HA3	2.47	0.45
1:AX:371:HIS:HB3	1:AX:374:GLN:CG	2.32	0.45
1:A1:363:VAL:HG22	1:A1:364:ASN:OD1	2.16	0.45
1:A1:454:THR:HG21	1:AB:88:ILE:CD1	2.43	0.45
1:A2:34:SER:CA	1:AM:17:VAL:HG11	2.42	0.45
1:A2:186:ALA:HB3	1:A2:334:PHE:O	2.16	0.45
1:A2:285:THR:HG23	1:A2:299:ALA:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:167:ASP:HB3	1:A3:384:ARG:CZ	2.47	0.45
1:A4:281:ASP:OD2	1:A4:283:ARG:HB3	2.16	0.45
1:A5:104:GLN:HB3	1:A5:108:SER:OG	2.17	0.45
1:A5:422:LYS:HA	1:A5:422:LYS:HE3	1.99	0.45
1:A6:438:LEU:HD23	1:A6:438:LEU:HA	1.85	0.45
1:A6:513:LEU:HD23	1:A6:513:LEU:HA	1.85	0.45
1:A7:48:MET:SD	1:AP:442:ARG:HD3	2.57	0.45
1:A7:189:ALA:HA	1:A7:192:ASN:CG	2.42	0.45
1:A8:35:GLY:C	1:A8:476:VAL:HG12	2.42	0.45
1:A9:319:VAL:H	1:A9:342:HIS:HD2	1.65	0.45
1:A9:363:VAL:HG22	1:A9:364:ASN:OD1	2.17	0.45
1:AB:149:ILE:HD12	1:AB:455:THR:HG21	1.98	0.45
1:AC:325:SER:CB	1:AC:330:GLY:HA3	2.46	0.45
1:AD:125:ASN:O	1:AD:129:THR:HG23	2.17	0.45
1:AD:278:ASN:OD1	1:AD:305:GLY:HA3	2.17	0.45
1:AD:422:LYS:O	1:AD:426:ILE:CD1	2.53	0.45
1:AE:363:VAL:HG22	1:AE:364:ASN:OD1	2.17	0.45
1:AG:390:PHE:CE2	1:AG:417:GLY:HA2	2.52	0.45
1:AI:281:ASP:OD1	1:AI:283:ARG:HG2	2.16	0.45
1:AK:231:ILE:HG21	1:AK:242:ALA:HB2	1.98	0.45
1:AN:89:LEU:HA	1:AN:92:ILE:HD12	1.98	0.45
1:AN:117:GLN:C	1:AN:117:GLN:OE1	2.60	0.45
1:AN:260:ARG:HA	1:AN:271:THR:OG1	2.17	0.45
1:AP:163:SER:OG	1:AP:168:LYS:HD3	2.17	0.45
1:AR:92:ILE:HG23	1:AR:116:ILE:CG1	2.32	0.45
1:AR:149:ILE:HD13	1:AR:157:VAL:HG12	1.99	0.45
1:AS:97:VAL:HG22	1:AS:428:MET:CE	2.47	0.45
1:AS:501:GLN:HG3	1:AT:485:PHE:CZ	2.52	0.45
1:AT:196:VAL:O	1:AT:196:VAL:HG23	2.17	0.45
1:AU:170:GLY:HA2	1:AU:434:ALA:N	2.32	0.45
1:AV:75:VAL:O	1:AV:445:MET:HE1	2.16	0.45
1:AW:125:ASN:O	1:AW:129:THR:HG23	2.17	0.45
1:A1:335:ALA:HA	2:A1:606:P8E:O8	2.16	0.45
1:A1:369:GLY:HA2	1:A1:374:GLN:HE22	1.82	0.45
1:A1:449:GLN:NE2	1:AI:42:ALA:HB2	2.32	0.45
1:A1:478:PHE:HE2	1:AI:5:ILE:CG2	2.30	0.45
1:A3:179:PHE:HD2	1:A3:184:MET:HE3	1.82	0.45
1:A3:264:ILE:HD11	1:A3:295:THR:HB	1.98	0.45
1:A5:122:GLU:OE2	1:AD:451:GLU:O	2.34	0.45
1:A5:230:ILE:HG13	1:A5:231:ILE:N	2.31	0.45
1:A6:82:MET:HE1	1:A6:441:ILE:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:246:VAL:HG12	1:A7:317:ILE:HD12	1.99	0.45
1:A8:300:SER:C	1:A8:301:LEU:HD23	2.41	0.45
1:A8:511:ARG:HG3	1:A8:512:LEU:N	2.32	0.45
1:A9:187:SER:HB3	1:A9:335:ALA:HB3	1.99	0.45
1:A9:231:ILE:HG21	1:A9:242:ALA:HB2	1.98	0.45
1:A9:410:ASN:HD21	1:A9:414:ILE:CG2	2.30	0.45
1:AB:90:ASP:OD2	1:AB:90:ASP:C	2.60	0.45
1:AD:42:ALA:HB2	1:AI:449:GLN:NE2	2.31	0.45
1:AD:246:VAL:HG22	1:AD:346:GLY:HA3	1.98	0.45
1:AD:251:GLY:N	1:AD:333:ASN:H	2.15	0.45
1:AE:269:ILE:HD12	1:AE:269:ILE:HA	1.80	0.45
1:AE:325:SER:CB	1:AE:330:GLY:HA3	2.47	0.45
1:AG:187:SER:HB3	1:AG:335:ALA:HB3	1.99	0.45
1:AG:196:VAL:HG23	1:AG:196:VAL:O	2.17	0.45
1:AG:284:LEU:O	1:AG:284:LEU:HD12	2.17	0.45
1:AI:89:LEU:CA	1:AI:92:ILE:HD12	2.47	0.45
1:AI:92:ILE:HG23	1:AI:116:ILE:HG23	1.99	0.45
1:AI:212:GLU:OE1	1:AI:212:GLU:HA	2.15	0.45
1:AJ:189:ALA:HB3	1:AJ:343:ALA:HB3	1.99	0.45
1:AJ:263:THR:HG22	1:AJ:268:GLU:HG3	1.99	0.45
1:AL:192:ASN:HA	1:AL:367:HIS:CE1	2.52	0.45
1:AM:85:GLN:OE1	1:AM:123:LEU:HG	2.16	0.45
1:AO:249:THR:HB	1:AO:308:ASN:OD1	2.16	0.45
1:AO:251:GLY:N	1:AO:333:ASN:H	2.15	0.45
1:AP:65:ILE:HA	1:AP:459:ILE:HD11	1.99	0.45
1:AR:250:GLY:HA2	1:AR:333:ASN:H	1.82	0.45
1:AS:88:ILE:HG22	1:AS:92:ILE:HD11	1.98	0.45
1:AS:117:GLN:C	1:AS:117:GLN:OE1	2.59	0.45
1:AU:92:ILE:HG23	1:AU:116:ILE:CG1	2.29	0.45
1:AV:189:ALA:HA	1:AV:192:ASN:ND2	2.32	0.45
1:AV:271:THR:HG22	1:AV:273:ASN:OD1	2.17	0.45
1:AX:224:ILE:HD11	1:AX:346:GLY:HA3	1.98	0.45
1:A1:201:LYS:HE2	1:A1:201:LYS:HB3	1.75	0.44
1:A1:398:ALA:HB2	1:A1:426:ILE:HD11	1.99	0.44
1:A2:212:GLU:HG3	1:AV:278:ASN:OD1	2.16	0.44
1:A3:60:ASN:OD1	1:AS:93:LYS:HE2	2.17	0.44
1:A3:230:ILE:HG13	1:A3:231:ILE:N	2.29	0.44
1:A4:363:VAL:HG22	1:A4:364:ASN:OD1	2.16	0.44
1:A4:389:ILE:HG13	1:A4:415:GLY:C	2.42	0.44
1:A4:426:ILE:HD12	1:A4:426:ILE:N	2.32	0.44
1:A5:60:ASN:HD21	1:AH:93:LYS:CE	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:72:ILE:O	1:A5:76:GLN:HG3	2.17	0.44
1:A5:122:GLU:CG	1:AD:451:GLU:CG	2.90	0.44
1:A5:129:THR:HG21	1:AD:155:THR:HG23	2.00	0.44
1:A5:250:GLY:HA2	1:A5:333:ASN:H	1.82	0.44
1:A6:300:SER:C	1:A6:301:LEU:HD23	2.42	0.44
1:A6:395:ALA:CB	1:A6:414:ILE:HG23	2.46	0.44
1:A8:76:GLN:HG3	1:A8:449:GLN:OE1	2.17	0.44
1:A8:319:VAL:HG12	1:A8:342:HIS:CD2	2.52	0.44
1:A9:8:ASN:HB3	1:A9:11:ALA:HB3	1.99	0.44
1:A9:201:LYS:HE2	1:A9:201:LYS:HB3	1.74	0.44
1:A9:422:LYS:C	1:A9:426:ILE:HD12	2.41	0.44
1:AA:89:LEU:CA	1:AA:92:ILE:HD12	2.47	0.44
1:AB:249:THR:HB	1:AB:308:ASN:OD1	2.17	0.44
1:AC:192:ASN:HA	1:AC:367:HIS:CE1	2.52	0.44
1:AE:259:VAL:HG12	1:AE:262:LEU:HB2	1.98	0.44
1:AE:509:VAL:HG13	1:AE:510:LEU:HD23	1.98	0.44
1:AG:122:GLU:CG	1:AP:451:GLU:HG3	2.47	0.44
1:AG:458:ASN:ND2	1:AM:126:ILE:HG23	2.30	0.44
1:AH:337:ILE:CG2	1:AH:342:HIS:CD2	3.00	0.44
1:AH:490:ILE:HG23	1:AK:510:LEU:HD12	1.98	0.44
1:AI:211:ILE:CG2	1:AI:230:ILE:HD11	2.47	0.44
1:AI:262:LEU:CD1	1:AI:319:VAL:HG23	2.47	0.44
1:AI:366:SER:HB2	1:AI:374:GLN:OE1	2.17	0.44
1:AK:120:LEU:HD21	1:AK:166:SER:OG	2.17	0.44
1:AM:227:LEU:O	1:AM:231:ILE:HG13	2.17	0.44
1:AM:269:ILE:O	1:AU:356:ARG:HD2	2.17	0.44
1:AN:201:LYS:HD3	2:AN:602:P8E:O1A	2.17	0.44
1:AO:86:ILE:HD13	1:AO:439:ASP:OD1	2.17	0.44
1:AR:201:LYS:HA	1:AR:208:ASP:CB	2.47	0.44
1:AR:422:LYS:HA	1:AR:422:LYS:HE3	1.99	0.44
1:AS:283:ARG:HG3	1:AS:284:LEU:N	2.32	0.44
1:AS:356:ARG:HH11	1:AS:356:ARG:HG3	1.82	0.44
1:AS:458:ASN:HB2	1:AT:84:GLU:HG2	1.99	0.44
1:AT:149:ILE:HD12	1:AT:455:THR:HG21	1.99	0.44
1:AU:422:LYS:HA	1:AU:422:LYS:HE3	1.99	0.44
1:AV:259:VAL:HA	1:AV:324:ALA:CB	2.47	0.44
1:AW:61:LEU:HB3	1:AW:463:GLN:HB2	2.00	0.44
1:AW:107:GLU:H	1:AW:107:GLU:CD	2.22	0.44
1:AW:186:ALA:HB3	1:AW:334:PHE:O	2.17	0.44
1:AX:174:MET:HE3	1:AX:398:ALA:HB2	1.98	0.44
1:AX:510:LEU:HD22	1:AX:514:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:446:GLY:HA3	1:AI:41:ALA:CB	2.47	0.44
1:A1:510:LEU:HD23	1:A1:510:LEU:N	2.32	0.44
1:A3:214:VAL:HG11	1:A3:227:LEU:HA	1.98	0.44
1:A3:264:ILE:CD1	1:A3:295:THR:HB	2.47	0.44
1:A3:297:VAL:CG1	1:A3:309:LEU:HG	2.47	0.44
1:A4:122:GLU:HG3	1:AF:451:GLU:CG	2.47	0.44
1:A5:167:ASP:CA	1:A5:384:ARG:HB2	2.44	0.44
1:A5:172:VAL:O	1:A5:380:THR:HA	2.17	0.44
1:A5:249:THR:HB	1:A5:308:ASN:OD1	2.16	0.44
1:A5:470:GLU:HA	1:A5:473:ILE:CG2	2.47	0.44
1:A6:218:THR:O	1:A6:315:ARG:HD3	2.17	0.44
1:A6:458:ASN:ND2	1:AW:126:ILE:HG12	2.32	0.44
1:A7:187:SER:HB3	1:A7:335:ALA:HB3	1.98	0.44
1:A7:262:LEU:HD12	1:A7:263:THR:N	2.32	0.44
1:A8:6:ASN:O	1:AK:487:LYS:HD2	2.17	0.44
1:A8:186:ALA:HB3	1:A8:334:PHE:O	2.17	0.44
1:A8:284:LEU:O	1:A8:284:LEU:HD12	2.17	0.44
1:AA:227:LEU:O	1:AA:231:ILE:HG13	2.17	0.44
1:AA:294:ARG:HH21	1:AF:389:ILE:HD11	1.82	0.44
1:AB:105:THR:HG23	1:AH:133:ASN:ND2	2.32	0.44
1:AB:117:GLN:C	1:AB:117:GLN:OE1	2.60	0.44
1:AD:167:ASP:HB3	1:AD:384:ARG:CZ	2.47	0.44
1:AE:201:LYS:HB2	1:AE:359:ILE:HG13	1.99	0.44
1:AE:337:ILE:HG22	1:AE:342:HIS:HB2	1.99	0.44
1:AF:103:GLY:HA2	1:AS:74:MET:SD	2.57	0.44
1:AK:117:GLN:NE2	1:AK:387:ARG:HD2	2.27	0.44
1:AK:446:GLY:O	1:AK:450:MET:HG3	2.16	0.44
1:AL:246:VAL:HB	1:AL:311:SER:HB3	1.99	0.44
1:AM:189:ALA:HA	1:AM:192:ASN:ND2	2.32	0.44
1:AM:214:VAL:HG11	1:AM:227:LEU:CB	2.47	0.44
1:AM:281:ASP:OD1	1:AM:283:ARG:HG2	2.16	0.44
1:AN:328:VAL:C	1:AN:329:PHE:CD1	2.95	0.44
1:AO:125:ASN:O	1:AO:129:THR:HG23	2.17	0.44
1:AO:138:LEU:HB3	1:AO:164:THR:OG1	2.17	0.44
1:AO:174:MET:CE	1:AO:398:ALA:HB2	2.47	0.44
1:AO:263:THR:HG22	1:AO:268:GLU:HG3	1.98	0.44
1:AP:61:LEU:HD23	1:AP:61:LEU:HA	1.82	0.44
1:AP:196:VAL:HG23	1:AP:196:VAL:O	2.18	0.44
1:AQ:60:ASN:HD21	1:AV:93:LYS:CG	2.28	0.44
1:AS:167:ASP:OD1	1:AS:168:LYS:HG3	2.17	0.44
1:AT:260:ARG:HA	1:AT:271:THR:OG1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:445:MET:HA	1:AU:445:MET:CE	2.36	0.44
1:AU:470:GLU:HA	1:AU:473:ILE:CG2	2.47	0.44
1:AV:321:ALA:HB3	1:AV:337:ILE:HD12	1.99	0.44
1:AX:179:PHE:HD1	1:AX:184:MET:CE	2.30	0.44
1:AX:369:GLY:HA2	1:AX:374:GLN:NE2	2.31	0.44
1:A1:260:ARG:HA	1:A1:271:THR:OG1	2.17	0.44
1:A1:502:ALA:O	1:A1:505:VAL:HG12	2.18	0.44
1:A1:508:ASN:ND2	1:A1:508:ASN:C	2.75	0.44
1:A3:189:ALA:HA	1:A3:192:ASN:CG	2.42	0.44
1:A3:325:SER:CB	1:A3:330:GLY:HA3	2.47	0.44
1:A3:511:ARG:HH22	1:A3:512:LEU:HD22	1.82	0.44
1:A4:122:GLU:CD	1:AF:454:THR:HB	2.42	0.44
1:A6:8:ASN:HB3	1:A6:11:ALA:HB3	1.99	0.44
1:A6:461:VAL:CG1	1:AW:80:LYS:HG3	2.47	0.44
1:A8:90:ASP:OD1	1:A8:90:ASP:C	2.60	0.44
1:A8:201:LYS:HB2	1:A8:359:ILE:HD11	1.98	0.44
1:A9:155:THR:HG23	1:AA:129:THR:CG2	2.48	0.44
1:A9:184:MET:HA	1:A9:192:ASN:ND2	2.19	0.44
1:A9:446:GLY:HA3	1:AK:41:ALA:CB	2.47	0.44
1:AB:319:VAL:H	1:AB:342:HIS:HD2	1.65	0.44
1:AB:426:ILE:HD12	1:AB:426:ILE:H	1.82	0.44
1:AB:470:GLU:O	1:AB:473:ILE:HG23	2.18	0.44
1:AC:445:MET:HA	1:AC:445:MET:CE	2.34	0.44
1:AD:260:ARG:C	1:AD:261:GLU:HG3	2.42	0.44
1:AE:92:ILE:HD12	1:AE:92:ILE:H	1.82	0.44
1:AE:260:ARG:HA	1:AE:271:THR:OG1	2.17	0.44
1:AF:449:GLN:NE2	1:AS:42:ALA:HB2	2.33	0.44
1:AF:491:LEU:HD11	1:AT:6:ASN:OD1	2.17	0.44
1:AG:238:LEU:HA	1:AG:238:LEU:HD23	1.72	0.44
1:AG:259:VAL:O	1:AG:271:THR:HG23	2.17	0.44
1:AG:448:VAL:O	1:AG:452:LEU:HG	2.17	0.44
1:AH:167:ASP:HA	1:AH:384:ARG:CB	2.44	0.44
1:AJ:82:MET:HG3	1:AJ:138:LEU:HD13	1.99	0.44
1:AJ:209:TYR:HE2	1:AJ:237:THR:HG21	1.83	0.44
1:AK:83:ASP:HB2	1:AK:442:ARG:CZ	2.47	0.44
1:AK:337:ILE:HG22	1:AK:342:HIS:CD2	2.52	0.44
1:AK:461:VAL:HG11	1:AN:80:LYS:CB	2.45	0.44
1:AL:187:SER:HB3	1:AL:335:ALA:HB3	1.99	0.44
1:AM:251:GLY:H	1:AM:333:ASN:H	1.65	0.44
1:AO:42:ALA:HB2	1:AQ:449:GLN:NE2	2.32	0.44
1:AO:172:VAL:O	1:AO:380:THR:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:189:ALA:HA	1:AP:192:ASN:ND2	2.32	0.44
1:AP:470:GLU:HA	1:AP:473:ILE:CG2	2.47	0.44
1:AQ:352:ARG:HB3	1:AQ:358:ILE:HD11	1.99	0.44
1:AR:65:ILE:HG13	1:AR:459:ILE:HD11	1.99	0.44
1:AR:263:THR:HG21	1:AR:268:GLU:HG3	1.99	0.44
1:AS:510:LEU:HD23	1:AS:510:LEU:N	2.33	0.44
1:AW:179:PHE:CD1	1:AW:184:MET:HE2	2.48	0.44
1:AW:300:SER:C	1:AW:301:LEU:HD23	2.42	0.44
1:AX:263:THR:O	1:AX:319:VAL:HA	2.16	0.44
1:A2:155:THR:HG23	1:AV:129:THR:CG2	2.47	0.44
1:A3:125:ASN:O	1:A3:129:THR:HG23	2.17	0.44
1:A3:422:LYS:HA	1:A3:422:LYS:HE3	2.00	0.44
1:A3:423:GLY:O	1:A3:427:VAL:HG23	2.18	0.44
1:A4:15:HIS:HA	1:A4:499:MET:CE	2.47	0.44
1:A5:192:ASN:HA	1:A5:367:HIS:CE1	2.53	0.44
1:A5:224:ILE:CD1	1:A5:346:GLY:HA3	2.47	0.44
1:A6:196:VAL:HG23	1:A6:196:VAL:O	2.18	0.44
1:A7:50:ILE:HD13	1:A7:50:ILE:HA	1.88	0.44
1:A7:90:ASP:OD1	1:A7:90:ASP:C	2.60	0.44
1:A8:211:ILE:HG22	1:A8:212:GLU:N	2.32	0.44
1:A9:117:GLN:OE1	1:A9:117:GLN:O	2.35	0.44
1:A9:225:GLY:HA2	1:A9:244:TYR:CD1	2.53	0.44
1:A9:260:ARG:HA	1:A9:271:THR:OG1	2.17	0.44
1:AA:189:ALA:HB3	1:AA:343:ALA:HB3	2.00	0.44
1:AA:251:GLY:H	1:AA:333:ASN:H	1.65	0.44
1:AA:470:GLU:HA	1:AA:473:ILE:CG2	2.47	0.44
1:AC:352:ARG:HD3	1:AC:354:ASP:OD2	2.18	0.44
1:AD:7:THR:HG21	1:AI:471:SER:HB2	1.99	0.44
1:AE:179:PHE:CZ	1:AE:344:VAL:HG13	2.48	0.44
1:AF:363:VAL:HG22	1:AF:364:ASN:OD1	2.18	0.44
1:AH:189:ALA:HB3	1:AH:343:ALA:HB3	2.00	0.44
1:AJ:421:LEU:O	1:AJ:425:MET:HG2	2.18	0.44
1:AK:203:VAL:HG21	1:AK:209:TYR:CD2	2.46	0.44
1:AK:281:ASP:OD2	1:AK:283:ARG:HB3	2.18	0.44
1:AK:458:ASN:HD21	1:AN:126:ILE:HG23	1.82	0.44
1:AL:508:ASN:HA	1:AL:511:ARG:CG	2.26	0.44
1:AO:187:SER:HB3	1:AO:335:ALA:HB3	1.99	0.44
1:AP:187:SER:HB3	1:AP:335:ALA:HB3	1.99	0.44
1:AQ:80:LYS:CB	1:AR:461:VAL:HG11	2.46	0.44
1:AR:244:TYR:C	1:AR:244:TYR:CD2	2.95	0.44
1:AT:384:ARG:HD2	1:AT:387:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:82:MET:HE1	1:AU:441:ILE:HG22	1.99	0.44
1:AU:281:ASP:OD2	1:AU:283:ARG:HB3	2.18	0.44
1:AU:342:HIS:CE1	1:AU:344:VAL:HG23	2.53	0.44
1:AV:263:THR:CG2	1:AV:268:GLU:HG3	2.47	0.44
1:AV:384:ARG:HD2	1:AV:387:ARG:HH21	1.83	0.44
1:AW:85:GLN:OE1	1:AW:123:LEU:HG	2.17	0.44
1:AX:335:ALA:HA	2:AX:606:P8E:O8	2.17	0.44
1:AX:502:ALA:O	1:AX:505:VAL:HG12	2.17	0.44
1:A1:88:ILE:HD12	1:A1:122:GLU:OE1	2.17	0.44
1:A2:281:ASP:OD2	1:A2:283:ARG:HB3	2.17	0.44
1:A6:122:GLU:OE2	1:AT:454:THR:HB	2.17	0.44
1:A6:460:SER:O	1:A6:464:VAL:HG23	2.18	0.44
1:A8:167:ASP:OD1	1:A8:168:LYS:HG3	2.17	0.44
1:A9:173:ARG:HD2	1:A9:357:ASP:HA	1.99	0.44
1:A9:212:GLU:HG3	1:AA:278:ASN:CG	2.43	0.44
1:A9:294:ARG:NH2	1:AK:206:VAL:HG11	2.32	0.44
1:AA:102:ASP:HA	1:AA:109:ARG:HH22	1.82	0.44
1:AA:300:SER:C	1:AA:301:LEU:HD23	2.43	0.44
1:AC:187:SER:HB3	1:AC:335:ALA:HB3	2.00	0.44
1:AC:251:GLY:N	1:AC:333:ASN:H	2.15	0.44
1:AD:224:ILE:HD11	1:AD:346:GLY:HA3	1.98	0.44
1:AD:262:LEU:HD11	1:AD:319:VAL:CG2	2.48	0.44
1:AD:383:LEU:HA	1:AD:430:MET:CE	2.47	0.44
1:AE:9:ILE:CD1	1:AK:468:ALA:HA	2.46	0.44
1:AE:29:LEU:HD23	1:AE:29:LEU:HA	1.83	0.44
1:AE:259:VAL:O	1:AE:271:THR:HG23	2.17	0.44
1:AF:478:PHE:HE2	1:AS:5:ILE:CG2	2.29	0.44
1:AG:17:VAL:HG11	1:AM:33:SER:C	2.42	0.44
1:AG:129:THR:CG2	1:AP:155:THR:HG23	2.47	0.44
1:AG:146:GLU:HG3	1:AG:156:THR:HG21	1.99	0.44
1:AH:382:ASN:C	1:AH:430:MET:HE3	2.42	0.44
1:AI:305:GLY:CA	1:AO:212:GLU:HG3	2.48	0.44
1:AJ:422:LYS:O	1:AJ:426:ILE:CD1	2.53	0.44
1:AK:211:ILE:HD13	1:AK:234:PHE:HD2	1.81	0.44
1:AM:6:ASN:O	1:AW:487:LYS:HD2	2.18	0.44
1:AM:125:ASN:O	1:AM:129:THR:HG23	2.17	0.44
1:AM:328:VAL:HG12	1:AM:329:PHE:HD1	1.83	0.44
1:AN:211:ILE:HG22	1:AN:212:GLU:N	2.31	0.44
1:AO:216:ILE:HD13	1:AO:223:GLY:HA2	1.99	0.44
1:AP:251:GLY:H	1:AP:333:ASN:H	1.64	0.44
1:AP:300:SER:C	1:AP:301:LEU:HD23	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:214:VAL:HG11	1:AR:227:LEU:HA	1.99	0.44
1:AR:251:GLY:H	1:AR:333:ASN:H	1.66	0.44
1:AS:84:GLU:OE1	1:AS:84:GLU:HA	2.18	0.44
1:AU:120:LEU:HD21	1:AU:383:LEU:CG	2.33	0.44
1:AU:337:ILE:CG2	1:AU:342:HIS:CD2	3.01	0.44
1:AU:471:SER:O	1:AU:475:ASP:HB2	2.18	0.44
1:AV:179:PHE:CD1	1:AV:184:MET:HE2	2.47	0.44
1:AX:370:PHE:CA	1:AX:376:VAL:HG11	2.39	0.44
1:A2:214:VAL:HG11	1:A2:227:LEU:CB	2.48	0.44
1:A2:448:VAL:HG22	1:AV:118:ARG:NH2	2.32	0.44
1:A2:475:ASP:HB2	1:AR:4:ARG:HG2	1.99	0.44
1:A3:211:ILE:HD11	1:A3:238:LEU:CD1	2.35	0.44
1:A4:65:ILE:HG13	1:A4:459:ILE:HD11	2.00	0.44
1:A4:262:LEU:HD12	1:A4:263:THR:H	1.80	0.44
1:A4:478:PHE:HE2	1:AT:5:ILE:HG21	1.83	0.44
1:A5:84:GLU:HG2	1:AD:458:ASN:HB2	1.98	0.44
1:A5:459:ILE:HG13	1:A5:460:SER:N	2.32	0.44
1:A6:17:VAL:CG2	1:AW:33:SER:HB2	2.45	0.44
1:A6:352:ARG:HB3	1:A6:358:ILE:HD11	2.00	0.44
1:A8:196:VAL:O	1:A8:196:VAL:HG23	2.17	0.44
1:AA:175:GLU:HA	1:AA:377:ALA:O	2.17	0.44
1:AE:5:ILE:HG21	1:AK:478:PHE:CE2	2.52	0.44
1:AE:62:GLY:HA2	1:AE:65:ILE:HD12	1.99	0.44
1:AE:125:ASN:O	1:AE:129:THR:HG23	2.18	0.44
1:AE:247:MET:CE	1:AE:402:ALA:HB2	2.48	0.44
1:AE:251:GLY:N	1:AE:333:ASN:H	2.15	0.44
1:AE:278:ASN:OD1	1:AE:305:GLY:HA3	2.17	0.44
1:AE:422:LYS:HA	1:AE:422:LYS:HE3	1.99	0.44
1:AF:472:GLN:HA	1:AS:4:ARG:HH11	1.80	0.44
1:AH:201:LYS:HA	1:AH:208:ASP:CB	2.47	0.44
1:AK:167:ASP:CA	1:AK:384:ARG:HB2	2.40	0.44
1:AK:175:GLU:HA	1:AK:377:ALA:O	2.17	0.44
1:AM:120:LEU:HD22	1:AM:166:SER:HB2	1.99	0.44
1:AM:418:VAL:HG12	1:AM:418:VAL:O	2.18	0.44
1:AN:201:LYS:HB2	1:AN:359:ILE:HD11	1.98	0.44
1:AP:283:ARG:HG3	1:AP:284:LEU:N	2.33	0.44
1:AP:473:ILE:HD12	1:AP:473:ILE:O	2.18	0.44
1:AQ:120:LEU:HD21	1:AQ:383:LEU:HD11	2.00	0.44
1:AQ:485:PHE:CZ	1:AR:501:GLN:HG3	2.53	0.44
1:AR:186:ALA:HB3	1:AR:334:PHE:O	2.17	0.44
1:AT:157:VAL:HG23	1:AT:451:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:92:ILE:HD12	1:AW:92:ILE:H	1.83	0.44
1:AX:125:ASN:O	1:AX:129:THR:HG23	2.17	0.44
1:A1:103:GLY:HA2	1:AI:74:MET:SD	2.58	0.44
1:A1:451:GLU:HA	1:AB:122:GLU:OE1	2.18	0.44
1:A1:461:VAL:CG1	1:AB:80:LYS:HG3	2.47	0.44
1:A2:175:GLU:HA	1:A2:377:ALA:O	2.17	0.44
1:A2:319:VAL:H	1:A2:342:HIS:HD2	1.65	0.44
1:A3:258:THR:CG2	1:A3:273:ASN:HA	2.32	0.44
1:A3:470:GLU:HA	1:A3:473:ILE:CG2	2.48	0.44
1:A5:133:ASN:HD21	1:AD:50:ILE:HD11	1.82	0.44
1:A5:167:ASP:HB3	1:A5:384:ARG:CZ	2.47	0.44
1:A5:511:ARG:CZ	1:A5:512:LEU:HD13	2.48	0.44
1:A6:65:ILE:HG12	1:A6:459:ILE:CD1	2.48	0.44
1:A7:17:VAL:CG2	1:AJ:33:SER:HB2	2.46	0.44
1:A7:325:SER:CB	1:A7:330:GLY:HA3	2.48	0.44
1:A7:422:LYS:O	1:A7:426:ILE:CD1	2.54	0.44
1:A8:74:MET:HB3	1:A8:137:MET:CE	2.37	0.44
1:A9:17:VAL:HG21	1:AA:33:SER:CB	2.45	0.44
1:A9:68:ALA:CB	1:A9:456:ILE:HD11	2.42	0.44
1:A9:477:ASP:HB2	1:AK:4:ARG:HH12	1.83	0.44
1:AA:246:VAL:HB	1:AA:311:SER:HB3	1.99	0.44
1:AA:369:GLY:HA2	1:AA:374:GLN:HE22	1.83	0.44
1:AA:389:ILE:HA	1:AA:416:ALA:HA	2.00	0.44
1:AB:87:LYS:HZ3	1:AB:87:LYS:HG3	1.73	0.44
1:AD:167:ASP:HA	1:AD:384:ARG:CB	2.47	0.44
1:AD:192:ASN:HA	1:AD:367:HIS:CE1	2.53	0.44
1:AD:263:THR:HG21	1:AD:268:GLU:HG3	2.00	0.44
1:AG:89:LEU:CA	1:AG:92:ILE:HD12	2.48	0.44
1:AG:190:ALA:O	1:AG:193:LEU:HG	2.17	0.44
1:AH:33:SER:OG	1:AI:14:SER:HA	2.18	0.44
1:AH:259:VAL:HA	1:AH:324:ALA:CB	2.47	0.44
1:AH:489:ASN:O	1:AH:493:GLN:HG2	2.18	0.44
1:AK:146:GLU:HG3	1:AK:156:THR:HG21	1.99	0.44
1:AK:196:VAL:HG23	1:AK:196:VAL:O	2.16	0.44
1:AL:390:PHE:CE2	1:AL:417:GLY:HA2	2.52	0.44
1:AM:93:LYS:CD	1:AU:60:ASN:HD21	2.30	0.44
1:AM:179:PHE:CD1	1:AM:184:MET:HE2	2.50	0.44
1:AM:328:VAL:C	1:AM:329:PHE:CD1	2.95	0.44
1:AN:167:ASP:OD1	1:AN:168:LYS:HG3	2.17	0.44
1:AO:284:LEU:O	1:AO:288:ILE:HG12	2.18	0.44
1:AQ:13:THR:O	1:AQ:17:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:258:THR:CG2	1:AQ:273:ASN:HA	2.27	0.44
1:AQ:328:VAL:C	1:AQ:329:PHE:CD2	2.96	0.44
1:AQ:471:SER:O	1:AQ:475:ASP:HB2	2.17	0.44
1:AU:259:VAL:HB	1:AU:272:VAL:HG22	1.99	0.44
1:AV:184:MET:HA	1:AV:192:ASN:ND2	2.21	0.44
1:AX:214:VAL:HG11	1:AX:227:LEU:HB2	2.00	0.44
1:AX:259:VAL:HA	1:AX:324:ALA:HB1	1.99	0.44
1:AX:298:GLU:HG2	1:AX:310:HIS:HB3	2.00	0.44
1:A1:192:ASN:HA	1:A1:367:HIS:CE1	2.53	0.44
1:A1:244:TYR:C	1:A1:244:TYR:CD2	2.95	0.44
1:A2:93:LYS:CE	1:AR:60:ASN:HD21	2.30	0.44
1:A2:259:VAL:HA	1:A2:324:ALA:HB2	2.00	0.44
1:A3:204:ASN:HD21	1:A3:207:ASN:HB2	1.83	0.44
1:A3:277:LYS:HG2	1:A3:278:ASN:ND2	2.33	0.44
1:A5:50:ILE:HD11	1:AK:133:ASN:HD21	1.83	0.44
1:A5:302:ASP:HB3	1:A5:308:ASN:ND2	2.32	0.44
1:A6:227:LEU:O	1:A6:230:ILE:HG12	2.18	0.44
1:A7:100:ALA:HB2	1:A7:424:ALA:CB	2.48	0.44
1:A7:173:ARG:HD2	1:A7:357:ASP:HA	2.00	0.44
1:A8:146:GLU:CG	1:AN:421:LEU:HD21	2.45	0.44
1:A8:418:VAL:HG22	1:A8:427:VAL:HG21	2.00	0.44
1:A8:470:GLU:HA	1:A8:473:ILE:CG2	2.47	0.44
1:AA:85:GLN:OE1	1:AA:123:LEU:HG	2.18	0.44
1:AB:103:GLY:HA2	1:AH:74:MET:SD	2.58	0.44
1:AB:174:MET:CE	1:AB:398:ALA:HB2	2.48	0.44
1:AB:371:HIS:CB	1:AB:374:GLN:HG3	2.36	0.44
1:AD:35:GLY:C	1:AD:476:VAL:HG12	2.43	0.44
1:AD:189:ALA:HA	1:AD:192:ASN:CG	2.42	0.44
1:AD:201:LYS:HB2	1:AD:359:ILE:CG1	2.48	0.44
1:AF:8:ASN:HB3	1:AF:11:ALA:HB3	1.99	0.44
1:AF:422:LYS:HA	1:AF:422:LYS:HE3	2.00	0.44
1:AH:418:VAL:O	1:AH:418:VAL:HG12	2.18	0.44
1:AH:448:VAL:O	1:AH:452:LEU:HG	2.18	0.44
1:AI:201:LYS:HE2	1:AI:201:LYS:HB3	1.74	0.44
1:AI:235:SER:HB2	1:AI:240:VAL:O	2.17	0.44
1:AI:251:GLY:H	1:AI:333:ASN:H	1.66	0.44
1:AK:14:SER:HA	1:AN:33:SER:OG	2.18	0.44
1:AK:496:SER:HA	1:AK:499:MET:HE3	2.00	0.44
1:AL:167:ASP:CA	1:AL:384:ARG:HB2	2.45	0.44
1:AM:117:GLN:OE1	1:AM:117:GLN:C	2.61	0.44
1:AM:244:TYR:C	1:AM:244:TYR:CD2	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:502:ALA:O	1:AM:505:VAL:HG12	2.17	0.44
1:AO:259:VAL:HG11	1:AO:262:LEU:HB2	1.99	0.44
1:AP:224:ILE:HD11	1:AP:246:VAL:HG22	1.96	0.44
1:AP:246:VAL:HB	1:AP:311:SER:HB3	2.00	0.44
1:AP:395:ALA:CB	1:AP:414:ILE:HG23	2.47	0.44
1:AQ:8:ASN:HA	1:AQ:506:GLN:HE22	1.83	0.44
1:AU:259:VAL:HA	1:AU:324:ALA:HB2	2.00	0.44
1:AV:5:ILE:CD1	1:AV:506:GLN:HG2	2.48	0.44
1:AV:47:GLY:O	1:AV:50:ILE:HG22	2.17	0.44
1:AV:186:ALA:HB3	1:AV:334:PHE:O	2.17	0.44
1:AV:192:ASN:HA	1:AV:367:HIS:CE1	2.52	0.44
1:AX:48:MET:HE3	1:AX:48:MET:HB3	1.87	0.44
1:AX:201:LYS:HA	1:AX:208:ASP:CB	2.48	0.44
1:AX:294:ARG:HD3	1:AX:294:ARG:HA	1.82	0.44
1:AX:390:PHE:CE2	1:AX:417:GLY:HA2	2.52	0.44
1:A1:133:ASN:CG	1:AQ:50:ILE:HD11	2.43	0.44
1:A1:149:ILE:CD1	1:A1:455:THR:HG21	2.45	0.44
1:A1:212:GLU:HG3	1:AB:278:ASN:CG	2.43	0.44
1:A3:89:LEU:HA	1:A3:89:LEU:HD23	1.82	0.44
1:A4:196:VAL:HG23	1:A4:196:VAL:O	2.18	0.44
1:A5:284:LEU:O	1:A5:284:LEU:HD12	2.18	0.44
1:A5:495:GLY:C	1:A5:499:MET:HE3	2.43	0.44
1:A6:300:SER:O	1:A6:301:LEU:HD23	2.18	0.44
1:A6:328:VAL:C	1:A6:329:PHE:CD1	2.96	0.44
1:A7:277:LYS:HG2	1:A7:278:ASN:ND2	2.33	0.44
1:A7:335:ALA:HA	2:A7:606:P8E:O8	2.18	0.44
1:A7:470:GLU:HA	1:A7:473:ILE:CG2	2.47	0.44
1:A8:251:GLY:N	1:A8:333:ASN:H	2.14	0.44
1:A8:421:LEU:O	1:A8:425:MET:HG2	2.18	0.44
1:A8:438:LEU:HD23	1:A8:438:LEU:HA	1.84	0.44
1:A9:166:SER:O	1:A9:383:LEU:HB3	2.17	0.44
1:A9:502:ALA:O	1:A9:505:VAL:HG12	2.17	0.44
1:AA:300:SER:O	1:AA:301:LEU:HD23	2.17	0.44
1:AB:470:GLU:HA	1:AB:473:ILE:CG2	2.47	0.44
1:AD:182:GLU:CG	1:AD:183:GLY:H	2.30	0.44
1:AD:211:ILE:HD12	1:AD:234:PHE:HD2	1.82	0.44
1:AD:259:VAL:HA	1:AD:324:ALA:HB2	2.00	0.44
1:AD:353:THR:HG23	1:AD:433:SER:CB	2.41	0.44
1:AE:145:LYS:HA	1:AK:102:ASP:OD2	2.18	0.44
1:AE:250:GLY:O	1:AE:306:ARG:HD2	2.18	0.44
1:AF:187:SER:HB3	1:AF:335:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:212:GLU:OE1	1:AF:212:GLU:CA	2.66	0.44
1:AF:302:ASP:CB	1:AF:308:ASN:HD21	2.26	0.44
1:AG:258:THR:CG2	1:AG:273:ASN:HA	2.29	0.44
1:AG:303:ILE:O	1:AP:234:PHE:HE1	2.01	0.44
1:AK:300:SER:C	1:AK:301:LEU:HD23	2.43	0.44
1:AL:179:PHE:HB2	1:AL:347:ARG:HG2	2.00	0.44
1:AL:189:ALA:HA	1:AL:192:ASN:ND2	2.33	0.44
1:AM:187:SER:HB3	1:AM:335:ALA:HB3	2.00	0.44
1:AM:201:LYS:HA	1:AM:208:ASP:CB	2.48	0.44
1:AN:74:MET:HG3	1:AN:132:PHE:CD1	2.53	0.44
1:AN:196:VAL:HG23	1:AN:196:VAL:O	2.18	0.44
1:AR:108:SER:O	1:AR:112:LEU:HD12	2.17	0.44
1:AS:146:GLU:HB2	1:AS:158:LYS:HD2	1.99	0.44
1:AS:179:PHE:HB2	1:AS:347:ARG:HG2	1.99	0.44
1:AU:83:ASP:HB2	1:AU:442:ARG:CZ	2.48	0.44
1:AU:167:ASP:CA	1:AU:384:ARG:HB2	2.45	0.44
1:AV:389:ILE:HA	1:AV:416:ALA:HA	2.00	0.44
1:AV:470:GLU:O	1:AV:473:ILE:HG23	2.18	0.44
1:AW:189:ALA:HB3	1:AW:343:ALA:HB3	2.00	0.44
1:AX:445:MET:HA	1:AX:445:MET:CE	2.34	0.44
1:A1:211:ILE:HD13	1:A1:234:PHE:HD2	1.83	0.43
1:A1:218:THR:O	1:A1:315:ARG:HD3	2.17	0.43
1:A1:418:VAL:HG12	1:A1:418:VAL:O	2.18	0.43
1:A2:189:ALA:HA	1:A2:192:ASN:CG	2.43	0.43
1:A4:179:PHE:HB2	1:A4:347:ARG:HG2	2.00	0.43
1:A4:188:ALA:HB2	2:A4:606:P8E:O1B	2.18	0.43
1:A6:89:LEU:CA	1:A6:92:ILE:HD12	2.48	0.43
1:A6:187:SER:HB3	1:A6:335:ALA:HB3	2.00	0.43
1:A6:212:GLU:OE1	1:A6:212:GLU:CA	2.67	0.43
1:A6:487:LYS:HE3	1:AG:6:ASN:O	2.18	0.43
1:A7:259:VAL:HG11	1:A7:262:LEU:HB2	2.00	0.43
1:A7:422:LYS:HA	1:A7:422:LYS:HE3	2.00	0.43
1:A9:196:VAL:HG23	1:A9:196:VAL:O	2.17	0.43
1:AA:365:PHE:CD1	1:AA:365:PHE:C	2.96	0.43
1:AB:201:LYS:HE2	1:AB:201:LYS:HB3	1.74	0.43
1:AD:92:ILE:HD12	1:AD:92:ILE:H	1.81	0.43
1:AD:187:SER:HB3	1:AD:335:ALA:HB3	2.00	0.43
1:AD:438:LEU:HD23	1:AD:438:LEU:HA	1.85	0.43
1:AE:188:ALA:HB2	2:AE:606:P8E:O1B	2.18	0.43
1:AE:189:ALA:HA	1:AE:192:ASN:CG	2.43	0.43
1:AF:14:SER:C	1:AF:499:MET:HE3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:84:GLU:HG2	1:AI:458:ASN:HB2	2.00	0.43
1:AH:146:GLU:HG3	1:AH:156:THR:HG21	1.98	0.43
1:AI:187:SER:HB3	1:AI:335:ALA:HB3	1.99	0.43
1:AJ:227:LEU:O	1:AJ:231:ILE:HG13	2.18	0.43
1:AJ:395:ALA:CB	1:AJ:414:ILE:HG23	2.48	0.43
1:AK:187:SER:HB3	1:AK:335:ALA:HB3	1.99	0.43
1:AK:247:MET:HE2	1:AK:247:MET:HB3	1.76	0.43
1:AL:82:MET:CE	1:AL:442:ARG:HA	2.48	0.43
1:AL:157:VAL:HG22	1:AL:451:GLU:OE2	2.18	0.43
1:AL:211:ILE:HG23	1:AL:230:ILE:HD12	2.00	0.43
1:AL:293:ASP:OD1	1:AL:294:ARG:HG3	2.16	0.43
1:AM:212:GLU:OE1	1:AM:212:GLU:CA	2.66	0.43
1:AM:422:LYS:HE3	1:AM:422:LYS:CA	2.48	0.43
1:AO:196:VAL:HG23	1:AO:196:VAL:O	2.17	0.43
1:AO:438:LEU:HD23	1:AO:438:LEU:HA	1.83	0.43
1:AS:196:VAL:HG23	1:AS:196:VAL:O	2.18	0.43
1:AT:230:ILE:HG13	1:AT:231:ILE:N	2.33	0.43
1:AU:32:LEU:HD22	1:AU:478:PHE:CE1	2.53	0.43
1:AU:136:GLN:HB3	1:AU:139:SER:OG	2.18	0.43
1:AU:259:VAL:HG13	1:AU:324:ALA:CB	2.48	0.43
1:AV:15:HIS:N	1:AV:499:MET:HE3	2.33	0.43
1:AV:90:ASP:OD1	1:AV:90:ASP:C	2.61	0.43
1:AX:251:GLY:H	1:AX:332:GLY:CA	2.20	0.43
1:A1:65:ILE:CG1	1:A1:459:ILE:HD11	2.47	0.43
1:A1:84:GLU:O	1:A1:88:ILE:HG13	2.18	0.43
1:A1:116:ILE:CD1	1:A1:418:VAL:HG21	2.47	0.43
1:A1:187:SER:HB3	1:A1:335:ALA:HB3	1.99	0.43
1:A2:352:ARG:HD2	1:A2:356:ARG:O	2.18	0.43
1:A3:227:LEU:O	1:A3:231:ILE:HG13	2.18	0.43
1:A3:298:GLU:HG2	1:A3:310:HIS:HB3	1.99	0.43
1:A4:61:LEU:CD2	1:A4:151:ALA:HB2	2.49	0.43
1:A5:89:LEU:HD23	1:A5:92:ILE:HD13	1.99	0.43
1:A5:189:ALA:HA	1:A5:192:ASN:ND2	2.33	0.43
1:A6:418:VAL:O	1:A6:418:VAL:HG12	2.18	0.43
1:A7:5:ILE:CD1	1:A7:510:LEU:HG	2.47	0.43
1:A7:92:ILE:HD12	1:A7:92:ILE:H	1.83	0.43
1:A7:342:HIS:ND1	1:A7:343:ALA:N	2.67	0.43
1:A8:140:GLY:HA3	1:A8:163:SER:HB2	2.00	0.43
1:A8:192:ASN:HA	1:A8:367:HIS:CE1	2.53	0.43
1:A8:430:MET:HE2	1:A8:430:MET:HB3	1.85	0.43
1:A9:179:PHE:CD1	1:A9:184:MET:HE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:284:LEU:O	1:A9:284:LEU:HD12	2.17	0.43
1:AA:116:ILE:CD1	1:AA:418:VAL:HG21	2.40	0.43
1:AA:294:ARG:HH21	1:AF:389:ILE:HD12	1.82	0.43
1:AB:29:LEU:HD23	1:AB:29:LEU:HA	1.86	0.43
1:AC:212:GLU:N	1:AC:212:GLU:OE2	2.51	0.43
1:AC:246:VAL:HG22	1:AC:346:GLY:HA3	2.00	0.43
1:AD:186:ALA:HB3	1:AD:334:PHE:O	2.18	0.43
1:AE:35:GLY:C	1:AE:476:VAL:HG12	2.43	0.43
1:AE:277:LYS:HG2	1:AE:278:ASN:ND2	2.33	0.43
1:AE:279:ASP:CG	1:AE:282:GLY:HA2	2.42	0.43
1:AF:65:ILE:HG13	1:AF:459:ILE:HD11	2.01	0.43
1:AF:471:SER:HB2	1:AF:475:ASP:OD2	2.17	0.43
1:AF:475:ASP:OD1	1:AS:6:ASN:HB2	2.18	0.43
1:AG:42:ALA:HB2	1:AW:449:GLN:NE2	2.33	0.43
1:AG:179:PHE:CD1	1:AG:184:MET:HE2	2.48	0.43
1:AG:458:ASN:HD22	1:AM:126:ILE:HG12	1.82	0.43
1:AG:511:ARG:NH1	1:AG:512:LEU:HB2	2.33	0.43
1:AH:251:GLY:H	1:AH:333:ASN:H	1.66	0.43
1:AI:133:ASN:ND2	1:AO:50:ILE:HD12	2.32	0.43
1:AI:510:LEU:HD23	1:AI:510:LEU:N	2.33	0.43
1:AJ:303:ILE:HD12	1:AJ:303:ILE:HA	1.85	0.43
1:AO:62:GLY:HA2	1:AO:65:ILE:HD12	2.00	0.43
1:AO:167:ASP:CA	1:AO:384:ARG:HB2	2.45	0.43
1:AO:179:PHE:HB2	1:AO:347:ARG:HG2	2.00	0.43
1:AO:206:VAL:HG11	1:AQ:294:ARG:NH2	2.33	0.43
1:AQ:41:ALA:HA	1:AQ:48:MET:CE	2.49	0.43
1:AQ:126:ILE:HG23	1:AR:458:ASN:HD21	1.82	0.43
1:AR:146:GLU:HG3	1:AR:156:THR:HG21	1.99	0.43
1:AR:163:SER:OG	1:AR:168:LYS:HD3	2.17	0.43
1:AR:369:GLY:HA2	1:AR:374:GLN:NE2	2.33	0.43
1:AT:421:LEU:HD12	1:AT:421:LEU:O	2.18	0.43
1:AU:321:ALA:HB3	1:AU:337:ILE:HD12	2.00	0.43
1:AV:24:ASP:HB3	1:AV:488:TYR:CE2	2.54	0.43
1:AV:187:SER:HB3	1:AV:335:ALA:HB3	2.01	0.43
1:AV:224:ILE:HD11	1:AV:245:ASN:H	1.82	0.43
1:AV:386:VAL:HG23	1:AV:430:MET:CE	2.48	0.43
1:AX:179:PHE:HD1	1:AX:184:MET:HE2	1.83	0.43
1:AX:227:LEU:O	1:AX:230:ILE:HG12	2.18	0.43
1:AX:249:THR:HB	1:AX:308:ASN:OD1	2.18	0.43
1:A1:82:MET:HE1	1:A1:442:ARG:N	2.33	0.43
1:A1:97:VAL:HG22	1:A1:428:MET:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:117:GLN:OE1	1:A1:117:GLN:O	2.37	0.43
1:A1:470:GLU:HA	1:A1:473:ILE:CG2	2.48	0.43
1:A3:263:THR:HA	1:A3:267:VAL:O	2.17	0.43
1:A4:260:ARG:HA	1:A4:271:THR:OG1	2.18	0.43
1:A4:328:VAL:C	1:A4:329:PHE:CD1	2.97	0.43
1:A5:50:ILE:HD13	1:A5:50:ILE:HA	1.90	0.43
1:A6:88:ILE:HD11	1:AT:454:THR:CG2	2.39	0.43
1:A6:195:GLU:HG3	1:A6:215:ARG:HG2	2.01	0.43
1:A6:201:LYS:HA	1:A6:208:ASP:CB	2.48	0.43
1:A6:352:ARG:HD2	1:A6:356:ARG:O	2.19	0.43
1:A7:89:LEU:CA	1:A7:92:ILE:HD12	2.48	0.43
1:A8:5:ILE:CG2	1:AN:478:PHE:HE2	2.31	0.43
1:A8:369:GLY:HA2	1:A8:374:GLN:NE2	2.33	0.43
1:A9:451:GLU:HG2	1:AA:122:GLU:OE1	2.18	0.43
1:AA:511:ARG:HH12	1:AA:512:LEU:HD13	1.83	0.43
1:AB:20:GLN:HG2	1:AB:23:ARG:NH2	2.33	0.43
1:AD:20:GLN:O	1:AD:24:ASP:OD1	2.35	0.43
1:AD:259:VAL:HA	1:AD:324:ALA:HB1	1.99	0.43
1:AE:167:ASP:HB3	1:AE:384:ARG:CZ	2.47	0.43
1:AF:133:ASN:HD21	1:AN:50:ILE:HD11	1.82	0.43
1:AF:471:SER:HB2	1:AS:7:THR:OG1	2.19	0.43
1:AH:491:LEU:HD23	1:AH:491:LEU:HA	1.89	0.43
1:AI:433:SER:O	1:AI:437:GLN:HG3	2.19	0.43
1:AI:509:VAL:HG13	1:AI:510:LEU:N	2.33	0.43
1:AJ:260:ARG:C	1:AJ:261:GLU:HG3	2.43	0.43
1:AJ:490:ILE:HD11	1:AX:507:GLN:HB2	1.99	0.43
1:AL:491:LEU:HA	1:AL:491:LEU:HD23	1.88	0.43
1:AN:29:LEU:HD21	1:AN:485:PHE:CE1	2.53	0.43
1:AN:146:GLU:HG3	1:AN:156:THR:HG21	1.99	0.43
1:AN:282:GLY:O	1:AN:286:ASN:ND2	2.51	0.43
1:AO:342:HIS:HE1	1:AO:344:VAL:CG2	2.32	0.43
1:AO:437:GLN:O	1:AO:441:ILE:HG13	2.18	0.43
1:AP:471:SER:O	1:AP:475:ASP:HB2	2.19	0.43
1:AQ:8:ASN:CA	1:AQ:506:GLN:HE22	2.32	0.43
1:AQ:251:GLY:H	1:AQ:333:ASN:H	1.66	0.43
1:AQ:337:ILE:HG22	1:AQ:342:HIS:CG	2.52	0.43
1:AR:30:GLU:HG3	1:AU:13:THR:HG21	1.99	0.43
1:AS:201:LYS:HA	1:AS:208:ASP:CB	2.49	0.43
1:AS:260:ARG:HH12	1:AS:323:SER:HB2	1.81	0.43
1:AS:281:ASP:OD2	1:AS:283:ARG:HB3	2.18	0.43
1:AT:29:LEU:HD23	1:AT:29:LEU:HA	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:174:MET:HE1	1:AT:398:ALA:HB2	2.00	0.43
1:AU:456:ILE:HD13	1:AU:456:ILE:HA	1.79	0.43
1:AW:174:MET:HE2	1:AW:174:MET:HB2	1.82	0.43
1:AW:234:PHE:HB3	1:AW:238:LEU:HD12	1.97	0.43
1:AX:62:GLY:HA2	1:AX:65:ILE:HD12	2.01	0.43
1:AX:89:LEU:HD12	1:AX:438:LEU:HD12	2.00	0.43
1:AX:188:ALA:HB2	2:AX:606:P8E:O1B	2.18	0.43
1:AX:509:VAL:HG13	1:AX:510:LEU:N	2.33	0.43
1:A1:201:LYS:HB2	1:A1:359:ILE:HD11	1.99	0.43
1:A2:187:SER:HB3	1:A2:335:ALA:HB3	1.99	0.43
1:A2:263:THR:HG21	1:A2:268:GLU:HG3	1.99	0.43
1:A4:85:GLN:OE1	1:A4:123:LEU:HG	2.19	0.43
1:A4:89:LEU:CA	1:A4:92:ILE:HD12	2.48	0.43
1:A4:126:ILE:HG23	1:AF:458:ASN:ND2	2.30	0.43
1:A4:186:ALA:HB3	1:A4:334:PHE:O	2.19	0.43
1:A4:371:HIS:CB	1:A4:374:GLN:HG3	2.32	0.43
1:A6:183:GLY:O	1:A6:188:ALA:HB3	2.19	0.43
1:A6:249:THR:HB	1:A6:308:ASN:OD1	2.19	0.43
1:A7:99:ALA:HB2	1:A7:112:LEU:CD2	2.35	0.43
1:A7:423:GLY:O	1:A7:427:VAL:HG23	2.19	0.43
1:A9:75:VAL:HG11	1:A9:449:GLN:HB2	2.01	0.43
1:AC:63:GLN:HG3	1:AR:97:VAL:HG12	2.00	0.43
1:AC:82:MET:HG3	1:AC:138:LEU:HD23	2.01	0.43
1:AC:92:ILE:HD12	1:AC:92:ILE:H	1.83	0.43
1:AC:234:PHE:CD2	1:AO:303:ILE:HD12	2.54	0.43
1:AD:8:ASN:HB3	1:AD:11:ALA:HB3	2.00	0.43
1:AD:120:LEU:HD13	1:AD:387:ARG:CG	2.47	0.43
1:AE:370:PHE:CA	1:AE:376:VAL:HG11	2.40	0.43
1:AF:502:ALA:O	1:AF:505:VAL:HG12	2.18	0.43
1:AG:74:MET:HG2	1:AG:132:PHE:CD1	2.54	0.43
1:AG:218:THR:O	1:AG:315:ARG:HD3	2.18	0.43
1:AG:319:VAL:H	1:AG:342:HIS:HD2	1.65	0.43
1:AH:20:GLN:HG2	1:AH:23:ARG:HH22	1.83	0.43
1:AI:6:ASN:OD1	1:AQ:491:LEU:HD11	2.18	0.43
1:AI:386:VAL:HG22	1:AI:427:VAL:HG22	2.01	0.43
1:AJ:62:GLY:HA2	1:AJ:65:ILE:HD12	2.00	0.43
1:AJ:167:ASP:CA	1:AJ:384:ARG:HB2	2.47	0.43
1:AJ:297:VAL:CG1	1:AJ:309:LEU:HG	2.48	0.43
1:AK:376:VAL:HG23	1:AK:378:GLU:HG3	2.01	0.43
1:AL:144:ASN:HD21	1:AT:247:MET:HE1	1.81	0.43
1:AL:437:GLN:O	1:AL:441:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:138:LEU:HB3	1:AN:164:THR:OG1	2.19	0.43
1:AN:302:ASP:CB	1:AN:308:ASN:HD21	2.29	0.43
1:AQ:88:ILE:CG2	1:AQ:92:ILE:HD11	2.48	0.43
1:AQ:196:VAL:O	1:AQ:196:VAL:HG23	2.18	0.43
1:AQ:253:PRO:HB3	1:AR:212:GLU:OE2	2.19	0.43
1:AR:203:VAL:HG21	1:AR:209:TYR:CD1	2.52	0.43
1:AT:448:VAL:O	1:AT:452:LEU:HG	2.19	0.43
1:AX:261:GLU:OE2	1:AX:322:ALA:HB2	2.18	0.43
1:AX:471:SER:O	1:AX:475:ASP:HB2	2.19	0.43
1:A1:88:ILE:CD1	1:A1:122:GLU:OE1	2.67	0.43
1:A1:173:ARG:HD2	1:A1:357:ASP:HA	2.01	0.43
1:A1:184:MET:HE1	1:A1:345:ILE:CD1	2.47	0.43
1:A3:187:SER:HB3	1:A3:335:ALA:HB3	1.99	0.43
1:A4:174:MET:HE3	1:A4:398:ALA:HB2	2.00	0.43
1:A4:262:LEU:CD1	1:A4:319:VAL:HG23	2.48	0.43
1:A4:422:LYS:HA	1:A4:422:LYS:HE3	2.00	0.43
1:A5:38:ILE:HD11	1:A5:473:ILE:O	2.18	0.43
1:A5:259:VAL:HG13	1:A5:324:ALA:HB3	2.00	0.43
1:A5:300:SER:C	1:A5:301:LEU:HD23	2.43	0.43
1:A6:259:VAL:HA	1:A6:324:ALA:CB	2.49	0.43
1:A7:214:VAL:CG1	1:A7:227:LEU:HD13	2.48	0.43
1:A7:352:ARG:HD2	1:A7:356:ARG:O	2.19	0.43
1:A8:5:ILE:HG21	1:AN:478:PHE:HE2	1.83	0.43
1:A9:410:ASN:HD21	1:A9:414:ILE:HG22	1.83	0.43
1:AB:142:PHE:CZ	1:AB:145:LYS:HG3	2.53	0.43
1:AB:363:VAL:HG22	1:AB:364:ASN:OD1	2.19	0.43
1:AD:120:LEU:HD21	1:AD:166:SER:OG	2.18	0.43
1:AD:188:ALA:HB2	2:AD:606:P8E:O1B	2.18	0.43
1:AD:196:VAL:HG21	1:AD:216:ILE:HD11	2.00	0.43
1:AE:82:MET:HE1	1:AE:442:ARG:N	2.34	0.43
1:AE:263:THR:HA	1:AE:267:VAL:O	2.18	0.43
1:AF:81:ALA:CB	1:AF:138:LEU:HD11	2.49	0.43
1:AF:214:VAL:HG11	1:AF:227:LEU:HA	1.99	0.43
1:AF:384:ARG:HD2	1:AF:387:ARG:NH2	2.34	0.43
1:AG:17:VAL:CG1	1:AM:34:SER:HA	2.47	0.43
1:AJ:24:ASP:HB3	1:AJ:488:TYR:CZ	2.54	0.43
1:AJ:261:GLU:O	1:AJ:263:THR:HG23	2.18	0.43
1:AK:5:ILE:CD1	1:AK:506:GLN:HG2	2.49	0.43
1:AK:328:VAL:C	1:AK:329:PHE:CD1	2.96	0.43
1:AK:337:ILE:HG22	1:AK:342:HIS:CG	2.53	0.43
1:AL:4:ARG:HH11	1:AT:472:GLN:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:196:VAL:O	1:AL:196:VAL:HG23	2.19	0.43
1:AO:35:GLY:C	1:AO:476:VAL:HG12	2.43	0.43
1:AO:61:LEU:HD12	1:AO:463:GLN:HA	2.00	0.43
1:AO:167:ASP:HB3	1:AO:384:ARG:CZ	2.48	0.43
1:AO:201:LYS:HA	1:AO:208:ASP:HB2	2.00	0.43
1:AQ:61:LEU:HD12	1:AQ:463:GLN:HA	2.00	0.43
1:AQ:175:GLU:HA	1:AQ:377:ALA:O	2.18	0.43
1:AR:179:PHE:HB2	1:AR:347:ARG:HG2	2.01	0.43
1:AS:120:LEU:CD1	1:AS:383:LEU:HG	2.35	0.43
1:AS:212:GLU:HG3	1:AT:278:ASN:CG	2.43	0.43
1:AU:186:ALA:C	1:AU:188:ALA:H	2.27	0.43
1:AV:472:GLN:C	1:AV:472:GLN:OE1	2.62	0.43
1:AW:300:SER:O	1:AW:301:LEU:HD23	2.18	0.43
1:AX:146:GLU:OE1	1:AX:156:THR:HG21	2.18	0.43
1:A1:470:GLU:O	1:A1:473:ILE:HG23	2.19	0.43
1:A2:189:ALA:HA	1:A2:192:ASN:ND2	2.34	0.43
1:A3:369:GLY:HA2	1:A3:374:GLN:HE22	1.84	0.43
1:A4:103:GLY:C	1:AT:74:MET:HE1	2.44	0.43
1:A4:249:THR:HB	1:A4:308:ASN:OD1	2.19	0.43
1:A5:129:THR:CG2	1:AD:155:THR:HG23	2.48	0.43
1:A5:167:ASP:OD1	1:A5:168:LYS:HG3	2.17	0.43
1:A6:511:ARG:NH1	1:A6:512:LEU:HB2	2.34	0.43
1:A7:106:LEU:O	1:A7:110:ARG:HG3	2.19	0.43
1:A7:458:ASN:ND2	1:AJ:126:ILE:HG12	2.34	0.43
1:A8:4:ARG:HH11	1:AN:472:GLN:HA	1.82	0.43
1:A8:120:LEU:HD21	1:A8:166:SER:CB	2.49	0.43
1:A8:172:VAL:O	1:A8:380:THR:HA	2.19	0.43
1:A9:86:ILE:HD13	1:A9:439:ASP:OD1	2.18	0.43
1:AA:449:GLN:NE2	1:AN:42:ALA:HB2	2.33	0.43
1:AB:283:ARG:HG3	1:AB:284:LEU:N	2.34	0.43
1:AB:458:ASN:OD1	1:AB:458:ASN:C	2.61	0.43
1:AE:247:MET:HE2	1:AE:402:ALA:HB2	2.01	0.43
1:AG:167:ASP:HB3	1:AG:384:ARG:CZ	2.49	0.43
1:AG:329:PHE:CG	1:AG:330:GLY:N	2.86	0.43
1:AG:472:GLN:HA	1:AJ:4:ARG:HH11	1.78	0.43
1:AH:75:VAL:CG1	1:AH:445:MET:HG2	2.35	0.43
1:AI:395:ALA:CB	1:AI:414:ILE:HG23	2.47	0.43
1:AJ:186:ALA:HB3	1:AJ:334:PHE:O	2.19	0.43
1:AJ:260:ARG:HH12	1:AJ:323:SER:HB2	1.83	0.43
1:AJ:281:ASP:OD2	1:AJ:283:ARG:HB3	2.17	0.43
1:AJ:319:VAL:H	1:AJ:342:HIS:CD2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:248:ALA:HB2	1:AL:344:VAL:HG21	2.00	0.43
1:AL:371:HIS:CB	1:AL:374:GLN:HG3	2.33	0.43
1:AM:167:ASP:OD1	1:AM:168:LYS:HG3	2.19	0.43
1:AM:211:ILE:CD1	1:AM:234:PHE:HD1	2.32	0.43
1:AN:189:ALA:CB	1:AN:343:ALA:HB3	2.47	0.43
1:AN:231:ILE:HG21	1:AN:242:ALA:HB2	1.99	0.43
1:AN:234:PHE:CB	1:AN:238:LEU:HD11	2.45	0.43
1:AN:337:ILE:CG2	1:AN:342:HIS:CD2	3.01	0.43
1:AP:204:ASN:HD21	1:AP:207:ASN:HB2	1.82	0.43
1:AP:507:GLN:HB2	1:AT:490:ILE:HD11	2.00	0.43
1:AQ:201:LYS:HE2	1:AQ:201:LYS:HB3	1.75	0.43
1:AR:120:LEU:CD2	1:AR:166:SER:HB3	2.48	0.43
1:AR:235:SER:HB2	1:AR:240:VAL:O	2.19	0.43
1:AS:300:SER:C	1:AS:301:LEU:HD23	2.43	0.43
1:AT:179:PHE:HB2	1:AT:347:ARG:HG2	2.00	0.43
1:AT:300:SER:C	1:AT:301:LEU:HD23	2.44	0.43
1:AU:61:LEU:HD12	1:AU:463:GLN:HA	1.99	0.43
1:AU:175:GLU:HA	1:AU:377:ALA:O	2.19	0.43
1:AV:15:HIS:HA	1:AV:499:MET:CE	2.49	0.43
1:AX:74:MET:HE3	1:AX:74:MET:HB3	1.72	0.43
1:A3:179:PHE:HB2	1:A3:347:ARG:HG2	2.01	0.43
1:A3:189:ALA:HA	1:A3:192:ASN:ND2	2.34	0.43
1:A4:126:ILE:CD1	1:AF:458:ASN:HD22	2.31	0.43
1:A7:418:VAL:O	1:A7:418:VAL:HG12	2.19	0.43
1:A8:422:LYS:HE3	1:A8:422:LYS:CA	2.49	0.43
1:A9:33:SER:C	1:AH:17:VAL:HG11	2.44	0.43
1:A9:34:SER:HA	1:AH:17:VAL:CG1	2.45	0.43
1:A9:192:ASN:HA	1:A9:367:HIS:CE1	2.54	0.43
1:A9:212:GLU:OE1	1:A9:212:GLU:CA	2.66	0.43
1:AA:218:THR:O	1:AA:315:ARG:HD3	2.19	0.43
1:AB:47:GLY:O	1:AB:50:ILE:HG22	2.18	0.43
1:AB:188:ALA:HB2	2:AB:606:P8E:O1B	2.19	0.43
1:AC:157:VAL:HG22	1:AC:451:GLU:OE2	2.18	0.43
1:AC:229:GLU:O	1:AC:233:ARG:HG3	2.18	0.43
1:AC:281:ASP:OD2	1:AC:283:ARG:HB3	2.18	0.43
1:AE:65:ILE:HG13	1:AE:459:ILE:HD11	2.00	0.43
1:AE:170:GLY:HA2	1:AE:434:ALA:N	2.33	0.43
1:AF:29:LEU:HD23	1:AF:29:LEU:HA	1.87	0.43
1:AF:61:LEU:CD2	1:AF:151:ALA:HB2	2.49	0.43
1:AF:83:ASP:HB2	1:AF:442:ARG:CZ	2.49	0.43
1:AF:189:ALA:HB3	1:AF:343:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:319:VAL:H	1:AF:342:HIS:HD2	1.67	0.43
1:AG:201:LYS:HA	1:AG:208:ASP:CB	2.49	0.43
1:AG:214:VAL:HG11	1:AG:227:LEU:HA	1.99	0.43
1:AH:179:PHE:HB2	1:AH:347:ARG:HG2	2.00	0.43
1:AH:201:LYS:HD3	2:AH:602:P8E:O1A	2.19	0.43
1:AJ:456:ILE:HD13	1:AJ:456:ILE:HA	1.78	0.43
1:AJ:470:GLU:HA	1:AJ:473:ILE:CG2	2.48	0.43
1:AK:422:LYS:HE3	1:AK:422:LYS:HA	2.00	0.43
1:AL:250:GLY:HA2	1:AL:333:ASN:H	1.83	0.43
1:AM:249:THR:HB	1:AM:308:ASN:OD1	2.19	0.43
1:AN:418:VAL:O	1:AN:418:VAL:HG12	2.19	0.43
1:AO:157:VAL:HG22	1:AO:451:GLU:OE2	2.18	0.43
1:AO:170:GLY:HA2	1:AO:434:ALA:N	2.34	0.43
1:AO:284:LEU:O	1:AO:284:LEU:HD12	2.19	0.43
1:AP:448:VAL:O	1:AP:452:LEU:HG	2.19	0.43
1:AS:179:PHE:HA	1:AS:184:MET:HE1	2.01	0.43
1:AT:60:ASN:HD22	1:AT:60:ASN:N	2.15	0.43
1:AT:300:SER:O	1:AT:301:LEU:HD23	2.19	0.43
1:AU:92:ILE:HD12	1:AU:92:ILE:H	1.83	0.43
1:AV:75:VAL:HG13	1:AV:445:MET:CE	2.35	0.43
1:AV:201:LYS:HE2	1:AV:201:LYS:HB3	1.75	0.43
1:AV:251:GLY:H	1:AV:333:ASN:H	1.67	0.43
1:AW:203:VAL:HG21	1:AW:209:TYR:CD2	2.54	0.43
1:AW:352:ARG:HD2	1:AW:356:ARG:O	2.18	0.43
1:AX:192:ASN:HA	1:AX:367:HIS:CE1	2.54	0.43
1:AX:247:MET:HE3	1:AX:402:ALA:HB2	2.01	0.43
1:AX:342:HIS:CD2	1:AX:343:ALA:N	2.87	0.43
1:AX:352:ARG:HD3	1:AX:354:ASP:OD2	2.19	0.43
1:A1:80:LYS:HG3	1:AQ:461:VAL:CG1	2.49	0.43
1:A1:196:VAL:HG23	1:A1:196:VAL:O	2.18	0.43
1:A2:227:LEU:O	1:A2:231:ILE:HG13	2.18	0.43
1:A2:369:GLY:HA2	1:A2:374:GLN:HE22	1.84	0.43
1:A3:196:VAL:O	1:A3:213:THR:HA	2.18	0.43
1:A4:120:LEU:HD21	1:A4:383:LEU:HD11	2.00	0.43
1:A5:74:MET:HE1	1:A5:142:PHE:CZ	2.54	0.43
1:A5:179:PHE:HB2	1:A5:347:ARG:HG2	1.99	0.43
1:A5:454:THR:HB	1:AK:122:GLU:OE2	2.19	0.43
1:A6:82:MET:HE1	1:A6:441:ILE:CB	2.48	0.43
1:A7:263:THR:HA	1:A7:267:VAL:O	2.17	0.43
1:A8:29:LEU:HD23	1:A8:29:LEU:HA	1.84	0.43
1:A8:89:LEU:HA	1:A8:89:LEU:HD23	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:54:LEU:HB3	1:A9:470:GLU:HB2	2.01	0.43
1:A9:365:PHE:O	1:A9:368:VAL:HG12	2.18	0.43
1:AA:184:MET:HE1	1:AA:345:ILE:CD1	2.49	0.43
1:AA:186:ALA:HB3	1:AA:334:PHE:O	2.19	0.43
1:AA:187:SER:HB3	1:AA:335:ALA:HB3	2.01	0.43
1:AA:224:ILE:CD1	1:AA:345:ILE:O	2.66	0.43
1:AB:61:LEU:CD2	1:AB:151:ALA:HB2	2.49	0.43
1:AC:35:GLY:C	1:AC:476:VAL:HG12	2.44	0.43
1:AC:196:VAL:O	1:AC:196:VAL:HG23	2.18	0.43
1:AC:211:ILE:CD1	1:AC:234:PHE:HD2	2.32	0.43
1:AD:418:VAL:O	1:AD:418:VAL:HG12	2.19	0.43
1:AE:123:LEU:HD23	1:AE:123:LEU:C	2.44	0.43
1:AE:250:GLY:HA2	1:AE:333:ASN:H	1.83	0.43
1:AG:468:ALA:CA	1:AJ:9:ILE:HD11	2.46	0.43
1:AH:35:GLY:C	1:AH:476:VAL:HG12	2.43	0.43
1:AI:209:TYR:HB2	1:AI:238:LEU:HD21	2.01	0.43
1:AI:227:LEU:O	1:AI:231:ILE:HG13	2.18	0.43
1:AI:230:ILE:HG13	1:AI:231:ILE:N	2.33	0.43
1:AJ:248:ALA:HB2	1:AJ:344:VAL:HG21	2.00	0.43
1:AK:259:VAL:HA	1:AK:324:ALA:HB2	2.01	0.43
1:AL:42:ALA:HB2	1:AT:449:GLN:NE2	2.34	0.43
1:AL:48:MET:SD	1:AT:442:ARG:HD3	2.59	0.43
1:AM:61:LEU:HD23	1:AM:61:LEU:HA	1.83	0.43
1:AM:487:LYS:HD2	1:AR:6:ASN:O	2.18	0.43
1:AM:502:ALA:HA	1:AM:505:VAL:HG12	2.01	0.43
1:AQ:188:ALA:HB2	2:AQ:606:P8E:O1B	2.18	0.43
1:AQ:382:ASN:O	1:AQ:430:MET:HE1	2.18	0.43
1:AQ:395:ALA:CB	1:AQ:414:ILE:HG23	2.49	0.43
1:AR:190:ALA:O	1:AR:193:LEU:HG	2.19	0.43
1:AR:284:LEU:O	1:AR:284:LEU:HD12	2.19	0.43
1:AS:146:GLU:HG3	1:AS:156:THR:HG21	2.00	0.43
1:AS:214:VAL:HG11	1:AS:227:LEU:HA	2.00	0.43
1:AS:259:VAL:HB	1:AS:272:VAL:HG22	2.01	0.43
1:AS:458:ASN:HD22	1:AT:126:ILE:CD1	2.31	0.43
1:AU:93:LYS:CD	1:AX:60:ASN:HD21	2.31	0.43
1:AV:142:PHE:CZ	1:AV:145:LYS:HG3	2.54	0.43
1:AV:195:GLU:HG3	1:AV:215:ARG:HG2	2.00	0.43
1:AV:261:GLU:OE2	1:AV:322:ALA:HB2	2.19	0.43
1:AV:410:ASN:HD21	1:AV:414:ILE:HG22	1.84	0.43
1:AW:50:ILE:HD12	1:AW:50:ILE:HA	1.81	0.43
1:AW:82:MET:HE3	1:AW:164:THR:CG2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:91:THR:O	1:AX:95:LYS:HG3	2.19	0.43
1:AX:386:VAL:HG23	1:AX:430:MET:HE1	2.00	0.43
1:A1:125:ASN:O	1:A1:129:THR:HG23	2.19	0.43
1:A1:211:ILE:HD11	1:A1:238:LEU:HD11	2.00	0.43
1:A1:263:THR:HG21	1:A1:268:GLU:HG3	2.00	0.43
1:A1:337:ILE:HG22	1:A1:342:HIS:CG	2.53	0.43
1:A1:486:SER:O	1:A1:490:ILE:HG12	2.19	0.43
1:A2:271:THR:HG22	1:A2:273:ASN:OD1	2.18	0.43
1:A3:174:MET:HE2	1:A3:174:MET:HB2	1.85	0.43
1:A4:105:THR:HG23	1:AT:133:ASN:ND2	2.34	0.43
1:A5:179:PHE:HD1	1:A5:184:MET:CE	2.25	0.43
1:A5:461:VAL:HG11	1:AK:80:LYS:CB	2.45	0.43
1:A6:161:ILE:CG2	1:A6:445:MET:HE1	2.48	0.43
1:A7:507:GLN:HA	1:AL:490:ILE:CD1	2.48	0.43
1:A8:179:PHE:HD1	1:A8:184:MET:CE	2.23	0.43
1:A8:201:LYS:O	1:A8:359:ILE:HD11	2.18	0.43
1:A8:319:VAL:O	1:A8:342:HIS:HD2	2.02	0.43
1:A9:450:MET:HE1	1:AA:115:ASP:OD1	2.19	0.43
1:AB:389:ILE:HA	1:AB:416:ALA:HA	2.01	0.43
1:AC:248:ALA:HB2	1:AC:344:VAL:HG21	2.00	0.43
1:AC:455:THR:O	1:AC:459:ILE:HG12	2.19	0.43
1:AD:83:ASP:HB2	1:AD:442:ARG:NH2	2.34	0.43
1:AD:89:LEU:HD12	1:AD:438:LEU:HD12	2.01	0.43
1:AD:214:VAL:HG11	1:AD:227:LEU:HA	2.01	0.43
1:AD:369:GLY:HA2	1:AD:374:GLN:HE22	1.83	0.43
1:AF:421:LEU:HD11	1:AF:425:MET:HE2	2.01	0.43
1:AG:84:GLU:HG2	1:AP:458:ASN:HB2	2.00	0.43
1:AG:214:VAL:HG11	1:AG:227:LEU:CB	2.48	0.43
1:AG:366:SER:HB2	1:AG:374:GLN:OE1	2.19	0.43
1:AH:80:LYS:HG3	1:AI:461:VAL:CG1	2.49	0.43
1:AJ:82:MET:HE1	1:AJ:441:ILE:HG22	2.01	0.43
1:AJ:155:THR:CG2	1:AU:129:THR:HG21	2.48	0.43
1:AK:438:LEU:HD23	1:AK:438:LEU:HA	1.88	0.43
1:AL:110:ARG:HB2	1:AL:110:ARG:HH11	1.83	0.43
1:AL:133:ASN:ND2	1:AT:105:THR:HG23	2.34	0.43
1:AL:300:SER:C	1:AL:301:LEU:HD23	2.44	0.43
1:AM:157:VAL:HG22	1:AM:451:GLU:OE2	2.18	0.43
1:AN:74:MET:HE2	1:AN:132:PHE:CE1	2.54	0.43
1:AO:184:MET:SD	1:AO:345:ILE:HD11	2.59	0.43
1:AO:383:LEU:HA	1:AO:430:MET:HE1	1.99	0.43
1:AQ:303:ILE:HG12	1:AR:209:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:133:ASN:HD21	1:AU:50:ILE:HD11	1.84	0.43
1:AR:258:THR:CG2	1:AR:273:ASN:HA	2.28	0.43
1:AS:418:VAL:O	1:AS:418:VAL:HG12	2.18	0.43
1:AU:189:ALA:CB	1:AU:343:ALA:HB3	2.48	0.43
1:AW:62:GLY:HA2	1:AW:65:ILE:HD12	2.01	0.43
1:A2:61:LEU:HB3	1:A2:463:GLN:HB2	2.00	0.43
1:A2:84:GLU:O	1:A2:88:ILE:HG13	2.19	0.43
1:A3:167:ASP:CA	1:A3:384:ARG:HB2	2.48	0.43
1:A3:260:ARG:HA	1:A3:271:THR:OG1	2.18	0.43
1:A3:510:LEU:HD23	1:A3:510:LEU:N	2.33	0.43
1:A4:117:GLN:OE1	1:A4:117:GLN:O	2.36	0.43
1:A4:119:LEU:HD23	1:A4:119:LEU:HA	1.91	0.43
1:A5:196:VAL:O	1:A5:196:VAL:HG23	2.18	0.43
1:A5:369:GLY:HA2	1:A5:374:GLN:NE2	2.34	0.43
1:A5:507:GLN:HA	1:AI:490:ILE:CD1	2.48	0.43
1:A6:167:ASP:OD1	1:A6:168:LYS:HG3	2.19	0.43
1:A7:260:ARG:HA	1:A7:271:THR:OG1	2.18	0.43
1:A8:201:LYS:HE2	1:A8:201:LYS:HB3	1.75	0.43
1:A9:214:VAL:HG11	1:A9:227:LEU:HA	2.01	0.43
1:A9:461:VAL:CG1	1:AA:80:LYS:HG3	2.47	0.43
1:AA:247:MET:HB2	1:AA:402:ALA:HB1	2.01	0.43
1:AA:376:VAL:HG23	1:AA:378:GLU:HG3	2.00	0.43
1:AC:211:ILE:HG22	1:AC:212:GLU:N	2.34	0.43
1:AC:511:ARG:HH12	1:AC:512:LEU:HD13	1.83	0.43
1:AE:74:MET:HE3	1:AE:137:MET:CE	2.44	0.43
1:AE:186:ALA:HB3	1:AE:334:PHE:O	2.19	0.43
1:AE:249:THR:HB	1:AE:308:ASN:OD1	2.19	0.43
1:AE:512:LEU:HD12	1:AE:512:LEU:HA	1.79	0.43
1:AF:33:SER:C	1:AN:17:VAL:HG11	2.44	0.43
1:AF:97:VAL:HG12	1:AS:63:GLN:HG3	2.00	0.43
1:AG:54:LEU:HB3	1:AG:470:GLU:HB2	2.01	0.43
1:AG:184:MET:O	1:AG:184:MET:HE3	2.19	0.43
1:AG:231:ILE:HG21	1:AG:242:ALA:HB2	2.00	0.43
1:AH:99:ALA:CB	1:AH:112:LEU:HD22	2.24	0.43
1:AH:133:ASN:ND2	1:AI:50:ILE:HD11	2.34	0.43
1:AH:196:VAL:HG23	1:AH:196:VAL:O	2.18	0.43
1:AH:200:PHE:HB3	1:AH:203:VAL:HG12	2.01	0.43
1:AH:214:VAL:CG1	1:AH:227:LEU:HD13	2.49	0.43
1:AI:138:LEU:N	1:AI:138:LEU:HD23	2.34	0.43
1:AI:166:SER:O	1:AI:383:LEU:HB3	2.19	0.43
1:AI:179:PHE:HB2	1:AI:347:ARG:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:422:LYS:HA	1:AI:422:LYS:HE3	2.01	0.43
1:AJ:9:ILE:HD13	1:AJ:9:ILE:HA	1.79	0.43
1:AJ:189:ALA:HA	1:AJ:192:ASN:ND2	2.34	0.43
1:AJ:192:ASN:HA	1:AJ:367:HIS:CE1	2.54	0.43
1:AJ:259:VAL:HA	1:AJ:324:ALA:HB2	2.01	0.43
1:AK:120:LEU:HD21	1:AK:166:SER:CB	2.49	0.43
1:AK:157:VAL:HG22	1:AK:451:GLU:OE2	2.19	0.43
1:AL:455:THR:O	1:AL:459:ILE:HG23	2.19	0.43
1:AO:136:GLN:HB3	1:AO:139:SER:OG	2.19	0.43
1:AO:171:HIS:CE1	1:AQ:286:ASN:ND2	2.87	0.43
1:AP:125:ASN:O	1:AP:129:THR:HG23	2.19	0.43
1:AP:292:LYS:HD3	1:AP:298:GLU:HB3	2.01	0.43
1:AQ:88:ILE:HG22	1:AQ:92:ILE:HD11	2.01	0.43
1:AS:211:ILE:HD13	1:AS:234:PHE:HD2	1.84	0.43
1:AS:491:LEU:HD23	1:AS:491:LEU:HA	1.88	0.43
1:AT:371:HIS:CB	1:AT:374:GLN:HG3	2.35	0.43
1:AU:273:ASN:HD21	1:AX:173:ARG:HH22	1.65	0.43
1:AU:300:SER:O	1:AU:301:LEU:HD23	2.19	0.43
1:AV:251:GLY:H	1:AV:332:GLY:CA	2.18	0.43
1:AV:284:LEU:O	1:AV:284:LEU:HD12	2.19	0.43
1:AV:297:VAL:CG1	1:AV:309:LEU:HG	2.49	0.43
1:AW:117:GLN:OE1	1:AW:117:GLN:O	2.36	0.43
1:AW:218:THR:O	1:AW:315:ARG:HD3	2.18	0.43
1:AW:389:ILE:HG13	1:AW:415:GLY:C	2.44	0.43
1:A1:61:LEU:HB3	1:A1:463:GLN:HB2	2.00	0.42
1:A1:201:LYS:O	1:A1:359:ILE:HD11	2.19	0.42
1:A3:35:GLY:C	1:A3:476:VAL:HG12	2.44	0.42
1:A3:46:SER:CB	1:AT:112:LEU:CD1	2.82	0.42
1:A3:212:GLU:OE1	1:A3:212:GLU:CA	2.67	0.42
1:A4:161:ILE:HG23	1:A4:445:MET:CE	2.49	0.42
1:A4:328:VAL:HG12	1:A4:329:PHE:CD1	2.51	0.42
1:A5:259:VAL:O	1:A5:271:THR:HG23	2.19	0.42
1:A6:99:ALA:HB3	1:A6:418:VAL:HG11	2.00	0.42
1:A7:279:ASP:CG	1:A7:282:GLY:HA2	2.44	0.42
1:A8:188:ALA:HB2	2:A8:606:P8E:O1B	2.19	0.42
1:A8:511:ARG:NH1	1:A8:512:LEU:HD12	2.22	0.42
1:A9:29:LEU:HD23	1:A9:29:LEU:HA	1.87	0.42
1:A9:120:LEU:CD2	1:A9:166:SER:HB2	2.49	0.42
1:A9:511:ARG:HH12	1:A9:512:LEU:HD13	1.83	0.42
1:AA:475:ASP:OD1	1:AN:6:ASN:HB2	2.19	0.42
1:AB:5:ILE:CD1	1:AB:506:GLN:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:251:GLY:H	1:AB:333:ASN:N	2.16	0.42
1:AD:235:SER:HB2	1:AD:240:VAL:O	2.19	0.42
1:AE:41:ALA:CB	1:AK:446:GLY:HA3	2.48	0.42
1:AE:212:GLU:OE1	1:AE:212:GLU:N	2.52	0.42
1:AF:97:VAL:HG22	1:AF:428:MET:SD	2.58	0.42
1:AF:218:THR:O	1:AF:315:ARG:HD3	2.19	0.42
1:AG:167:ASP:HA	1:AG:384:ARG:CB	2.42	0.42
1:AG:352:ARG:HB3	1:AG:358:ILE:HD11	2.01	0.42
1:AH:278:ASN:CG	1:AI:212:GLU:HG3	2.44	0.42
1:AH:342:HIS:CE1	1:AH:344:VAL:HG23	2.54	0.42
1:AI:65:ILE:HA	1:AI:459:ILE:HD11	2.01	0.42
1:AI:186:ALA:C	1:AI:188:ALA:H	2.26	0.42
1:AI:303:ILE:HD12	1:AO:234:PHE:CD1	2.52	0.42
1:AJ:66:ARG:HG2	1:AJ:66:ARG:HH11	1.84	0.42
1:AJ:167:ASP:HA	1:AJ:384:ARG:CB	2.46	0.42
1:AJ:246:VAL:HG22	1:AJ:346:GLY:HA3	2.00	0.42
1:AJ:249:THR:HB	1:AJ:308:ASN:OD1	2.18	0.42
1:AJ:259:VAL:HA	1:AJ:324:ALA:HB1	2.00	0.42
1:AK:50:ILE:HD11	1:AN:133:ASN:HD21	1.84	0.42
1:AL:120:LEU:HD13	1:AL:387:ARG:HG3	2.01	0.42
1:AN:190:ALA:O	1:AN:193:LEU:HG	2.19	0.42
1:AN:284:LEU:O	1:AN:284:LEU:HD12	2.18	0.42
1:AO:167:ASP:OD1	1:AO:168:LYS:HG3	2.18	0.42
1:AO:261:GLU:OE2	1:AO:322:ALA:HB2	2.19	0.42
1:AP:189:ALA:HB3	1:AP:343:ALA:HB3	2.01	0.42
1:AQ:157:VAL:O	1:AQ:157:VAL:HG13	2.19	0.42
1:AQ:259:VAL:HA	1:AQ:324:ALA:HB2	2.01	0.42
1:AR:50:ILE:CG2	1:AR:473:ILE:HG12	2.49	0.42
1:AR:161:ILE:HG12	1:AR:445:MET:SD	2.59	0.42
1:AR:196:VAL:HG23	1:AR:196:VAL:O	2.18	0.42
1:AS:395:ALA:CB	1:AS:414:ILE:HG23	2.48	0.42
1:AU:36:LEU:HD23	1:AX:6:ASN:ND2	2.34	0.42
1:AU:104:GLN:HB3	1:AU:108:SER:HG	1.84	0.42
1:AV:61:LEU:HD23	1:AV:61:LEU:HA	1.87	0.42
1:AV:366:SER:HB2	1:AV:374:GLN:OE1	2.19	0.42
1:AW:196:VAL:O	1:AW:196:VAL:HG23	2.19	0.42
1:AW:470:GLU:O	1:AW:473:ILE:HG23	2.19	0.42
1:AX:186:ALA:HB3	1:AX:334:PHE:O	2.19	0.42
1:A1:167:ASP:HB3	1:A1:384:ARG:CZ	2.48	0.42
1:A4:335:ALA:HA	2:A4:606:P8E:O8	2.19	0.42
1:A5:184:MET:HE1	1:A5:345:ILE:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:451:GLU:HG3	1:AK:122:GLU:CB	2.48	0.42
1:A5:501:GLN:HG3	1:AK:485:PHE:CZ	2.54	0.42
1:A6:211:ILE:HD11	1:A6:238:LEU:CD2	2.39	0.42
1:A7:140:GLY:HA3	1:A7:163:SER:HB2	2.00	0.42
1:A7:184:MET:O	1:A7:184:MET:HE3	2.18	0.42
1:A8:48:MET:HG3	1:AN:442:ARG:NH1	2.34	0.42
1:A8:144:ASN:HD21	1:AN:247:MET:HE1	1.84	0.42
1:A8:246:VAL:HG22	1:A8:346:GLY:HA3	2.00	0.42
1:A8:249:THR:HB	1:A8:308:ASN:OD1	2.18	0.42
1:A8:300:SER:O	1:A8:301:LEU:HD23	2.19	0.42
1:A8:423:GLY:HA2	1:A8:426:ILE:HD12	2.00	0.42
1:AA:61:LEU:HD23	1:AA:61:LEU:HA	1.84	0.42
1:AB:15:HIS:HA	1:AB:499:MET:CE	2.49	0.42
1:AB:179:PHE:CD1	1:AB:184:MET:HE2	2.48	0.42
1:AB:260:ARG:HA	1:AB:271:THR:OG1	2.18	0.42
1:AB:502:ALA:HA	1:AB:505:VAL:HG12	2.01	0.42
1:AC:186:ALA:HB3	1:AC:334:PHE:O	2.19	0.42
1:AC:300:SER:C	1:AC:301:LEU:HD23	2.44	0.42
1:AC:491:LEU:HD23	1:AC:491:LEU:HA	1.90	0.42
1:AD:189:ALA:HA	1:AD:192:ASN:ND2	2.34	0.42
1:AD:259:VAL:HG11	1:AD:262:LEU:HB2	2.01	0.42
1:AD:352:ARG:NH2	1:AD:356:ARG:HE	2.17	0.42
1:AD:390:PHE:CE2	1:AD:417:GLY:HA2	2.54	0.42
1:AE:227:LEU:O	1:AE:230:ILE:HG12	2.20	0.42
1:AF:215:ARG:HB2	1:AF:215:ARG:NH1	2.34	0.42
1:AG:85:GLN:OE1	1:AG:123:LEU:HG	2.19	0.42
1:AG:281:ASP:OD2	1:AG:283:ARG:HB3	2.19	0.42
1:AG:438:LEU:HD23	1:AG:438:LEU:HA	1.89	0.42
1:AG:468:ALA:HB2	1:AJ:9:ILE:HD12	2.01	0.42
1:AH:37:ARG:HB3	1:AH:474:ARG:O	2.18	0.42
1:AH:110:ARG:HE	1:AH:110:ARG:HB2	1.59	0.42
1:AH:212:GLU:OE1	1:AH:212:GLU:CA	2.66	0.42
1:AI:80:LYS:HG3	1:AO:461:VAL:CG1	2.49	0.42
1:AI:398:ALA:HB1	1:AI:426:ILE:HD11	2.00	0.42
1:AJ:6:ASN:C	1:AP:487:LYS:HD2	2.45	0.42
1:AJ:174:MET:HE3	1:AJ:398:ALA:CA	2.49	0.42
1:AJ:451:GLU:HG3	1:AU:122:GLU:HG3	1.99	0.42
1:AK:234:PHE:CE2	1:AN:303:ILE:HD12	2.54	0.42
1:AK:418:VAL:O	1:AK:418:VAL:HG12	2.19	0.42
1:AL:41:ALA:CB	1:AT:446:GLY:HA3	2.48	0.42
1:AL:155:THR:HG23	1:AP:129:THR:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:211:ILE:CD1	1:AL:234:PHE:HD2	2.31	0.42
1:AL:259:VAL:O	1:AL:271:THR:HG23	2.19	0.42
1:AM:84:GLU:O	1:AM:88:ILE:HG13	2.19	0.42
1:AM:215:ARG:CB	1:AM:215:ARG:HH11	2.32	0.42
1:AN:215:ARG:NH1	1:AN:215:ARG:HB2	2.34	0.42
1:AN:356:ARG:HH11	1:AN:356:ARG:HG3	1.83	0.42
1:AO:422:LYS:HA	1:AO:422:LYS:HE3	2.01	0.42
1:AP:146:GLU:HB3	1:AP:158:LYS:HE2	2.01	0.42
1:AQ:41:ALA:HB3	1:AV:446:GLY:CA	2.49	0.42
1:AQ:183:GLY:O	1:AQ:188:ALA:HB3	2.20	0.42
1:AR:126:ILE:HG12	1:AU:458:ASN:ND2	2.32	0.42
1:AT:65:ILE:HG13	1:AT:459:ILE:HD11	2.02	0.42
1:AT:204:ASN:HD21	1:AT:207:ASN:HB2	1.85	0.42
1:AU:302:ASP:CB	1:AU:308:ASN:HD21	2.26	0.42
1:AW:214:VAL:CG1	1:AW:227:LEU:HD13	2.49	0.42
1:AW:438:LEU:HD23	1:AW:438:LEU:HA	1.89	0.42
1:AX:422:LYS:HA	1:AX:422:LYS:HE3	2.01	0.42
1:A1:426:ILE:O	1:A1:430:MET:HG3	2.19	0.42
1:A2:89:LEU:HA	1:A2:89:LEU:HD23	1.83	0.42
1:A2:335:ALA:HA	2:A2:606:P8E:O8	2.19	0.42
1:A3:14:SER:HB2	1:A3:499:MET:HG3	2.01	0.42
1:A3:29:LEU:HD23	1:A3:29:LEU:HA	1.83	0.42
1:A3:146:GLU:CG	1:AS:421:LEU:HD21	2.45	0.42
1:A4:352:ARG:HD2	1:A4:356:ARG:O	2.19	0.42
1:A5:88:ILE:HD11	1:AD:454:THR:CG2	2.33	0.42
1:A6:125:ASN:O	1:A6:129:THR:HG23	2.18	0.42
1:A6:293:ASP:OD2	1:A6:294:ARG:N	2.52	0.42
1:A7:196:VAL:O	1:A7:196:VAL:HG23	2.19	0.42
1:A8:8:ASN:CA	1:A8:506:GLN:HE22	2.32	0.42
1:A8:189:ALA:HA	1:A8:192:ASN:ND2	2.34	0.42
1:A8:212:GLU:OE1	1:A8:212:GLU:HA	2.18	0.42
1:A9:211:ILE:CD1	1:A9:234:PHE:HD1	2.32	0.42
1:A9:395:ALA:CB	1:A9:414:ILE:HG23	2.48	0.42
1:AA:478:PHE:HE2	1:AN:5:ILE:CG2	2.32	0.42
1:AB:15:HIS:N	1:AB:499:MET:HE3	2.34	0.42
1:AB:259:VAL:HA	1:AB:324:ALA:HB2	2.01	0.42
1:AC:174:MET:HE2	1:AC:174:MET:HB2	1.76	0.42
1:AC:234:PHE:CE2	1:AO:303:ILE:HA	2.54	0.42
1:AC:321:ALA:HB3	1:AC:337:ILE:HG13	2.00	0.42
1:AC:369:GLY:HA2	1:AC:374:GLN:HE22	1.85	0.42
1:AC:448:VAL:O	1:AC:452:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:173:ARG:HD2	1:AF:357:ASP:HA	2.00	0.42
1:AG:86:ILE:HD13	1:AG:439:ASP:OD1	2.18	0.42
1:AG:144:ASN:ND2	1:AW:247:MET:HE1	2.33	0.42
1:AG:513:LEU:CD1	1:AW:479:ALA:HA	2.49	0.42
1:AH:284:LEU:O	1:AH:284:LEU:HD12	2.19	0.42
1:AI:328:VAL:HG12	1:AI:329:PHE:CD1	2.52	0.42
1:AI:437:GLN:O	1:AI:441:ILE:HG13	2.19	0.42
1:AJ:196:VAL:HG23	1:AJ:196:VAL:O	2.19	0.42
1:AJ:300:SER:C	1:AJ:301:LEU:HD23	2.44	0.42
1:AJ:461:VAL:CG1	1:AU:80:LYS:HG3	2.49	0.42
1:AL:259:VAL:HG13	1:AL:324:ALA:HB3	2.00	0.42
1:AL:356:ARG:HD2	1:AT:269:ILE:O	2.19	0.42
1:AM:513:LEU:O	1:AM:514:GLN:HB3	2.18	0.42
1:AN:201:LYS:HA	1:AN:208:ASP:CB	2.49	0.42
1:AN:259:VAL:HA	1:AN:324:ALA:HB2	2.02	0.42
1:AO:171:HIS:NE2	1:AO:382:ASN:HB3	2.34	0.42
1:AO:371:HIS:CB	1:AO:374:GLN:HG3	2.41	0.42
1:AQ:319:VAL:H	1:AQ:342:HIS:HD2	1.67	0.42
1:AS:177:SER:OG	1:AS:347:ARG:HA	2.20	0.42
1:AS:445:MET:HA	1:AS:445:MET:CE	2.36	0.42
1:AU:65:ILE:HG13	1:AU:459:ILE:HD11	2.01	0.42
1:AU:201:LYS:HB2	1:AU:359:ILE:CD1	2.49	0.42
1:AU:235:SER:HB2	1:AU:240:VAL:O	2.19	0.42
1:AU:251:GLY:N	1:AU:333:ASN:H	2.17	0.42
1:AV:300:SER:O	1:AV:301:LEU:HD23	2.18	0.42
1:AW:106:LEU:HD13	1:AW:106:LEU:HA	1.91	0.42
1:AX:8:ASN:HA	1:AX:506:GLN:HE22	1.83	0.42
1:AX:196:VAL:HG21	1:AX:216:ILE:HD11	2.01	0.42
1:AX:297:VAL:CG1	1:AX:309:LEU:HG	2.50	0.42
1:A1:167:ASP:OD1	1:A1:168:LYS:HG3	2.19	0.42
1:A1:271:THR:HG22	1:A1:273:ASN:OD1	2.19	0.42
1:A1:451:GLU:HG3	1:AB:122:GLU:HB2	2.01	0.42
1:A2:107:GLU:H	1:A2:107:GLU:CD	2.26	0.42
1:A2:423:GLY:O	1:A2:427:VAL:HG23	2.19	0.42
1:A3:92:ILE:HG23	1:A3:116:ILE:CG2	2.46	0.42
1:A3:188:ALA:HB2	2:A3:606:P8E:O1B	2.19	0.42
1:A3:395:ALA:CB	1:A3:414:ILE:HG23	2.48	0.42
1:A4:93:LYS:HE2	1:AT:60:ASN:OD1	2.19	0.42
1:A6:167:ASP:HB3	1:A6:384:ARG:CZ	2.49	0.42
1:A7:177:SER:OG	1:A7:347:ARG:HA	2.20	0.42
1:A8:212:GLU:OE2	1:AS:253:PRO:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:395:ALA:CB	1:AB:414:ILE:HG23	2.49	0.42
1:AC:161:ILE:HG12	1:AC:445:MET:SD	2.59	0.42
1:AC:437:GLN:O	1:AC:441:ILE:HG13	2.19	0.42
1:AD:445:MET:HA	1:AD:445:MET:CE	2.46	0.42
1:AD:470:GLU:HA	1:AD:473:ILE:HG22	2.02	0.42
1:AD:511:ARG:HG3	1:AD:512:LEU:N	2.34	0.42
1:AD:513:LEU:O	1:AD:514:GLN:HB3	2.18	0.42
1:AE:91:THR:O	1:AE:95:LYS:HG3	2.20	0.42
1:AE:259:VAL:HG11	1:AE:262:LEU:HB2	2.00	0.42
1:AE:335:ALA:HA	2:AE:606:P8E:O8	2.19	0.42
1:AE:423:GLY:O	1:AE:427:VAL:HG23	2.18	0.42
1:AF:284:LEU:O	1:AF:284:LEU:HD12	2.18	0.42
1:AG:63:GLN:HG3	1:AW:97:VAL:HG12	2.01	0.42
1:AG:104:GLN:HE22	1:AG:112:LEU:HD11	1.85	0.42
1:AH:85:GLN:OE1	1:AH:123:LEU:HG	2.18	0.42
1:AI:300:SER:C	1:AI:301:LEU:HD23	2.44	0.42
1:AJ:5:ILE:CD1	1:AJ:510:LEU:HG	2.49	0.42
1:AJ:216:ILE:HD13	1:AJ:223:GLY:C	2.45	0.42
1:AJ:319:VAL:HG13	1:AJ:342:HIS:CD2	2.55	0.42
1:AJ:418:VAL:HG12	1:AJ:418:VAL:O	2.20	0.42
1:AK:161:ILE:HG12	1:AK:445:MET:SD	2.59	0.42
1:AL:15:HIS:CD2	1:AS:480:GLU:HB2	2.55	0.42
1:AL:78:ALA:O	1:AL:82:MET:HG3	2.19	0.42
1:AL:418:VAL:O	1:AL:418:VAL:HG12	2.19	0.42
1:AM:284:LEU:O	1:AM:284:LEU:HD12	2.20	0.42
1:AM:335:ALA:HA	2:AM:606:P8E:O8	2.20	0.42
1:AO:4:ARG:HH11	1:AQ:472:GLN:HA	1.81	0.42
1:AO:91:THR:HG22	1:AO:119:LEU:CD1	2.50	0.42
1:AO:140:GLY:HA3	1:AO:163:SER:HB2	2.00	0.42
1:AO:211:ILE:HG22	1:AO:212:GLU:N	2.35	0.42
1:AP:4:ARG:HH11	1:AP:4:ARG:HG3	1.84	0.42
1:AR:84:GLU:CD	1:AU:454:THR:HG23	2.45	0.42
1:AS:260:ARG:HA	1:AS:271:THR:OG1	2.19	0.42
1:AS:352:ARG:HD2	1:AS:356:ARG:O	2.19	0.42
1:AV:91:THR:O	1:AV:95:LYS:HG3	2.20	0.42
1:AV:106:LEU:HD13	1:AV:106:LEU:HA	1.92	0.42
1:AV:383:LEU:HA	1:AV:430:MET:HE3	1.98	0.42
1:AW:99:ALA:HB3	1:AW:418:VAL:HG11	2.01	0.42
1:AW:173:ARG:HD2	1:AW:357:ASP:HA	1.99	0.42
1:AW:283:ARG:HG3	1:AW:284:LEU:N	2.34	0.42
1:AX:85:GLN:OE1	1:AX:123:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:184:MET:HE1	1:AX:345:ILE:HD11	2.02	0.42
1:A1:238:LEU:O	1:A1:240:VAL:HG23	2.20	0.42
1:A1:259:VAL:O	1:A1:271:THR:HG23	2.20	0.42
1:A2:93:LYS:CG	1:AR:60:ASN:HD21	2.30	0.42
1:A2:211:ILE:HG12	1:A2:234:PHE:HD1	1.84	0.42
1:A2:486:SER:O	1:A2:490:ILE:HG12	2.19	0.42
1:A5:157:VAL:HG11	1:A5:452:LEU:HD21	2.02	0.42
1:A5:262:LEU:HD11	1:A5:319:VAL:HG23	2.00	0.42
1:A6:188:ALA:HB2	2:A6:606:P8E:O1B	2.19	0.42
1:A7:247:MET:CE	1:A7:402:ALA:HB2	2.49	0.42
1:A8:46:SER:HB2	1:AF:112:LEU:CD1	2.50	0.42
1:A8:155:THR:HG23	1:AS:129:THR:CG2	2.48	0.42
1:A9:418:VAL:O	1:A9:418:VAL:HG12	2.20	0.42
1:AA:93:LYS:CG	1:AN:60:ASN:HD21	2.33	0.42
1:AA:352:ARG:HB3	1:AA:358:ILE:HD11	2.01	0.42
1:AD:123:LEU:HD23	1:AD:123:LEU:C	2.45	0.42
1:AE:116:ILE:CD1	1:AE:418:VAL:HG21	2.44	0.42
1:AG:203:VAL:HG21	1:AG:209:TYR:CD2	2.54	0.42
1:AH:157:VAL:HG11	1:AH:452:LEU:HD21	2.01	0.42
1:AH:300:SER:C	1:AH:301:LEU:HD23	2.44	0.42
1:AI:511:ARG:NH1	1:AI:512:LEU:HB2	2.34	0.42
1:AJ:89:LEU:CA	1:AJ:92:ILE:HD12	2.50	0.42
1:AL:35:GLY:C	1:AL:476:VAL:HG12	2.44	0.42
1:AL:186:ALA:HB3	1:AL:334:PHE:O	2.20	0.42
1:AM:65:ILE:CG1	1:AM:459:ILE:HD11	2.48	0.42
1:AO:513:LEU:HD13	1:AQ:479:ALA:HA	2.01	0.42
1:AP:85:GLN:OE1	1:AP:123:LEU:HG	2.19	0.42
1:AQ:153:SER:HB3	1:AV:429:ASP:OD2	2.19	0.42
1:AQ:278:ASN:OD1	1:AR:212:GLU:HG3	2.18	0.42
1:AR:389:ILE:HG13	1:AR:415:GLY:C	2.45	0.42
1:AS:56:SER:O	1:AS:60:ASN:OD1	2.37	0.42
1:AS:422:LYS:HE3	1:AS:422:LYS:CA	2.50	0.42
1:AT:284:LEU:O	1:AT:284:LEU:HD12	2.19	0.42
1:AU:196:VAL:HG22	1:AU:216:ILE:HD12	2.02	0.42
1:AU:337:ILE:HG22	1:AU:342:HIS:CD2	2.55	0.42
1:AV:188:ALA:HB2	2:AV:606:P8E:O1B	2.20	0.42
1:AV:445:MET:HE2	1:AV:445:MET:HB3	1.76	0.42
1:AW:47:GLY:O	1:AW:50:ILE:HG22	2.19	0.42
1:AW:285:THR:HG23	1:AW:299:ALA:CB	2.50	0.42
1:AW:335:ALA:HA	2:AW:606:P8E:O8	2.20	0.42
1:AX:363:VAL:HG22	1:AX:364:ASN:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:174:MET:HE3	1:A1:398:ALA:HA	2.01	0.42
1:A1:212:GLU:OE1	1:A1:212:GLU:CA	2.67	0.42
1:A1:446:GLY:HA3	1:AI:41:ALA:HB3	2.02	0.42
1:A3:48:MET:HE2	1:A3:48:MET:HB3	1.89	0.42
1:A3:146:GLU:HB2	1:A3:158:LYS:HD2	2.02	0.42
1:A3:179:PHE:CZ	1:A3:344:VAL:HG13	2.52	0.42
1:A3:415:GLY:HA2	1:A8:294:ARG:HH21	1.85	0.42
1:A4:303:ILE:HG13	1:AF:234:PHE:CD1	2.54	0.42
1:A4:428:MET:HE2	1:A4:428:MET:HB2	1.77	0.42
1:A4:480:GLU:O	1:A4:480:GLU:HG2	2.19	0.42
1:A5:418:VAL:O	1:A5:418:VAL:HG12	2.20	0.42
1:A5:509:VAL:CG2	1:A5:513:LEU:HD12	2.50	0.42
1:A6:61:LEU:HD23	1:A6:61:LEU:HA	1.86	0.42
1:A6:502:ALA:O	1:A6:505:VAL:HG12	2.19	0.42
1:A7:9:ILE:CD1	1:AP:468:ALA:HA	2.45	0.42
1:A7:91:THR:O	1:A7:95:LYS:HG3	2.20	0.42
1:A7:262:LEU:HG	1:A7:269:ILE:CG2	2.50	0.42
1:A8:366:SER:HB2	1:A8:374:GLN:OE1	2.19	0.42
1:A8:423:GLY:O	1:A8:427:VAL:HG23	2.18	0.42
1:AA:102:ASP:OD1	1:AN:145:LYS:HA	2.19	0.42
1:AA:328:VAL:C	1:AA:329:PHE:CD1	2.98	0.42
1:AB:463:GLN:HA	1:AB:466:VAL:CG2	2.50	0.42
1:AC:335:ALA:HA	2:AC:606:P8E:O8	2.20	0.42
1:AD:116:ILE:HD13	1:AD:418:VAL:HG21	2.01	0.42
1:AD:224:ILE:HD11	1:AD:246:VAL:HG23	1.98	0.42
1:AD:248:ALA:HB2	1:AD:344:VAL:HG21	2.01	0.42
1:AD:433:SER:O	1:AD:437:GLN:HG3	2.20	0.42
1:AD:471:SER:O	1:AD:475:ASP:HB2	2.19	0.42
1:AE:187:SER:HB3	1:AE:335:ALA:HB3	2.00	0.42
1:AE:196:VAL:HG23	1:AE:196:VAL:O	2.17	0.42
1:AE:470:GLU:HA	1:AE:473:ILE:CG2	2.49	0.42
1:AF:192:ASN:HA	1:AF:367:HIS:CE1	2.55	0.42
1:AG:74:MET:HE3	1:AG:137:MET:HE1	2.02	0.42
1:AG:133:ASN:HD21	1:AP:50:ILE:HD11	1.84	0.42
1:AH:8:ASN:HA	1:AH:506:GLN:HE22	1.84	0.42
1:AH:167:ASP:OD1	1:AH:168:LYS:HG3	2.19	0.42
1:AH:406:GLN:O	1:AH:409:THR:HG23	2.20	0.42
1:AI:122:GLU:CG	1:AO:451:GLU:HG3	2.50	0.42
1:AJ:187:SER:HB3	1:AJ:335:ALA:HB3	2.01	0.42
1:AJ:251:GLY:H	1:AJ:333:ASN:N	2.17	0.42
1:AJ:302:ASP:CB	1:AJ:308:ASN:HD21	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:89:LEU:HA	1:AL:89:LEU:HD23	1.86	0.42
1:AM:313:ASP:OD1	1:AM:315:ARG:HG2	2.20	0.42
1:AO:203:VAL:HG21	1:AO:209:TYR:CD1	2.51	0.42
1:AP:41:ALA:HB2	1:AP:48:MET:HE2	2.00	0.42
1:AQ:62:GLY:HA2	1:AQ:65:ILE:HD12	2.02	0.42
1:AQ:259:VAL:HA	1:AQ:324:ALA:HB1	2.01	0.42
1:AR:80:LYS:CB	1:AU:461:VAL:HG11	2.46	0.42
1:AR:395:ALA:CB	1:AR:414:ILE:HG23	2.48	0.42
1:AS:99:ALA:CB	1:AS:112:LEU:HD22	2.28	0.42
1:AT:175:GLU:HA	1:AT:377:ALA:O	2.19	0.42
1:AU:166:SER:O	1:AU:383:LEU:HB3	2.19	0.42
1:AW:187:SER:HB3	1:AW:335:ALA:HB3	2.00	0.42
1:AW:251:GLY:H	1:AW:333:ASN:H	1.66	0.42
1:AW:328:VAL:C	1:AW:329:PHE:CD1	2.97	0.42
1:AW:418:VAL:O	1:AW:418:VAL:HG12	2.20	0.42
1:AW:422:LYS:HA	1:AW:422:LYS:HE3	2.02	0.42
1:AX:418:VAL:HG12	1:AX:418:VAL:O	2.20	0.42
1:A1:251:GLY:H	1:A1:333:ASN:H	1.68	0.42
1:A1:253:PRO:HB3	1:AQ:212:GLU:OE2	2.19	0.42
1:A1:300:SER:O	1:A1:301:LEU:HD23	2.20	0.42
1:A2:259:VAL:HA	1:A2:324:ALA:HB1	2.01	0.42
1:A2:376:VAL:HG23	1:A2:378:GLU:HG3	2.02	0.42
1:A3:224:ILE:HD13	1:A3:345:ILE:O	2.20	0.42
1:A4:33:SER:CB	1:AF:17:VAL:HG21	2.40	0.42
1:A4:92:ILE:HD12	1:A4:92:ILE:H	1.84	0.42
1:A4:112:LEU:HD12	1:AS:46:SER:HB2	2.01	0.42
1:A6:456:ILE:HD13	1:A6:459:ILE:HD11	2.02	0.42
1:A7:173:ARG:HH22	1:AP:273:ASN:HD21	1.67	0.42
1:A7:211:ILE:HG23	1:A7:230:ILE:HD12	2.02	0.42
1:A7:244:TYR:CD2	1:A7:244:TYR:C	2.97	0.42
1:A7:261:GLU:OE2	1:A7:322:ALA:HB2	2.20	0.42
1:A7:262:LEU:HD11	1:A7:319:VAL:CG2	2.48	0.42
1:A8:190:ALA:O	1:A8:193:LEU:HG	2.20	0.42
1:A9:230:ILE:HG13	1:A9:231:ILE:N	2.34	0.42
1:A9:300:SER:C	1:A9:301:LEU:HD23	2.45	0.42
1:A9:446:GLY:HA3	1:AK:41:ALA:HB3	2.02	0.42
1:AA:5:ILE:CD1	1:AA:506:GLN:HG2	2.50	0.42
1:AA:50:ILE:HD12	1:AA:50:ILE:HA	1.82	0.42
1:AA:138:LEU:N	1:AA:138:LEU:HD23	2.34	0.42
1:AA:188:ALA:HB2	2:AA:606:P8E:O1B	2.20	0.42
1:AA:284:LEU:HD12	1:AA:284:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:230:ILE:HG13	1:AB:231:ILE:N	2.34	0.42
1:AB:335:ALA:HA	2:AB:606:P8E:O8	2.19	0.42
1:AC:7:THR:OG1	1:AR:471:SER:HB2	2.19	0.42
1:AC:188:ALA:HB2	2:AC:606:P8E:O1B	2.19	0.42
1:AC:438:LEU:HD23	1:AC:438:LEU:HA	1.86	0.42
1:AD:259:VAL:CG2	1:AD:324:ALA:HB1	2.47	0.42
1:AD:371:HIS:HB3	1:AD:374:GLN:CG	2.34	0.42
1:AD:470:GLU:HA	1:AD:473:ILE:CG2	2.49	0.42
1:AF:80:LYS:HG3	1:AN:461:VAL:CG1	2.50	0.42
1:AF:175:GLU:HA	1:AF:377:ALA:O	2.19	0.42
1:AF:328:VAL:C	1:AF:329:PHE:CD1	2.98	0.42
1:AG:120:LEU:HD22	1:AG:166:SER:HB2	2.02	0.42
1:AG:452:LEU:O	1:AG:456:ILE:HG12	2.19	0.42
1:AG:458:ASN:HD22	1:AM:126:ILE:CD1	2.32	0.42
1:AH:244:TYR:CD2	1:AH:244:TYR:C	2.98	0.42
1:AH:313:ASP:OD1	1:AH:315:ARG:HG2	2.20	0.42
1:AI:104:GLN:HB3	1:AI:108:SER:HG	1.85	0.42
1:AI:122:GLU:CB	1:AO:451:GLU:HG3	2.50	0.42
1:AJ:284:LEU:O	1:AJ:284:LEU:HD12	2.20	0.42
1:AJ:511:ARG:HH12	1:AJ:512:LEU:CD1	2.20	0.42
1:AK:104:GLN:HB3	1:AK:108:SER:HG	1.83	0.42
1:AL:61:LEU:HD12	1:AL:463:GLN:HA	2.01	0.42
1:AL:422:LYS:HA	1:AL:422:LYS:HE3	2.02	0.42
1:AM:179:PHE:HB2	1:AM:347:ARG:HG2	2.02	0.42
1:AM:365:PHE:O	1:AM:368:VAL:HG12	2.19	0.42
1:AN:422:LYS:O	1:AN:426:ILE:HD13	2.19	0.42
1:AP:89:LEU:HA	1:AP:92:ILE:CD1	2.45	0.42
1:AP:352:ARG:HD2	1:AP:356:ARG:O	2.19	0.42
1:AR:502:ALA:O	1:AR:505:VAL:HG12	2.20	0.42
1:AS:201:LYS:HE2	1:AS:201:LYS:HB3	1.74	0.42
1:AS:461:VAL:CG1	1:AT:80:LYS:HG3	2.50	0.42
1:AT:234:PHE:O	1:AT:238:LEU:CD1	2.64	0.42
1:AT:251:GLY:H	1:AT:333:ASN:H	1.66	0.42
1:AU:196:VAL:HG23	1:AU:196:VAL:O	2.19	0.42
1:AU:263:THR:HG21	1:AU:268:GLU:HG3	2.01	0.42
1:AU:513:LEU:HD13	1:AU:513:LEU:HA	1.91	0.42
1:AX:61:LEU:HD12	1:AX:463:GLN:HA	2.02	0.42
1:AX:123:LEU:HD23	1:AX:123:LEU:C	2.45	0.42
1:AX:463:GLN:O	1:AX:466:VAL:HG22	2.19	0.42
1:AX:506:GLN:O	1:AX:509:VAL:CG1	2.64	0.42
1:A2:17:VAL:CG2	1:AV:33:SER:HB2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:174:MET:O	1:A2:378:GLU:HA	2.19	0.42
1:A2:450:MET:HE2	1:AV:115:ASP:OD1	2.19	0.42
1:A3:92:ILE:HG21	1:A3:116:ILE:HG23	2.02	0.42
1:A3:123:LEU:HD23	1:A3:123:LEU:C	2.44	0.42
1:A4:129:THR:CG2	1:AF:155:THR:HG23	2.49	0.42
1:A4:187:SER:HB3	1:A4:335:ALA:HB3	2.01	0.42
1:A5:110:ARG:HD3	1:AI:293:ASP:OD1	2.20	0.42
1:A5:262:LEU:CD1	1:A5:319:VAL:HG23	2.50	0.42
1:A6:502:ALA:HA	1:A6:505:VAL:HG12	2.02	0.42
1:A7:259:VAL:HA	1:A7:324:ALA:HB1	2.02	0.42
1:A7:507:GLN:CB	1:AL:490:ILE:HD11	2.50	0.42
1:A8:4:ARG:H	1:A8:4:ARG:HD2	1.85	0.42
1:A8:5:ILE:HG21	1:AN:478:PHE:CE2	2.55	0.42
1:A8:461:VAL:HG11	1:AS:80:LYS:CB	2.47	0.42
1:AA:93:LYS:CE	1:AN:60:ASN:HD21	2.29	0.42
1:AC:50:ILE:HD13	1:AC:50:ILE:HA	1.94	0.42
1:AD:74:MET:HE1	1:AD:142:PHE:CZ	2.54	0.42
1:AE:263:THR:HG21	1:AE:268:GLU:HG3	2.00	0.42
1:AF:448:VAL:O	1:AF:452:LEU:HG	2.20	0.42
1:AF:502:ALA:HA	1:AF:505:VAL:HG12	2.01	0.42
1:AG:157:VAL:HG22	1:AG:451:GLU:OE2	2.19	0.42
1:AH:120:LEU:HD22	1:AH:166:SER:HB2	2.01	0.42
1:AH:281:ASP:OD2	1:AH:283:ARG:HB3	2.20	0.42
1:AH:485:PHE:CZ	1:AI:501:GLN:HG3	2.54	0.42
1:AI:5:ILE:CD1	1:AQ:490:ILE:HG21	2.49	0.42
1:AJ:188:ALA:HB2	2:AJ:606:P8E:O1B	2.19	0.42
1:AJ:283:ARG:HA	1:AJ:286:ASN:ND2	2.35	0.42
1:AL:30:GLU:HA	1:AL:33:SER:OG	2.19	0.42
1:AL:105:THR:OG1	1:AL:107:GLU:HG2	2.19	0.42
1:AL:459:ILE:HG13	1:AL:460:SER:N	2.33	0.42
1:AM:184:MET:O	1:AM:184:MET:HE3	2.20	0.42
1:AN:37:ARG:HB2	1:AN:476:VAL:HA	2.00	0.42
1:AN:189:ALA:C	1:AN:343:ALA:HB3	2.45	0.42
1:AN:214:VAL:HG11	1:AN:227:LEU:CB	2.48	0.42
1:AN:389:ILE:HG13	1:AN:415:GLY:C	2.45	0.42
1:AN:511:ARG:NH1	1:AN:512:LEU:HB2	2.34	0.42
1:AO:186:ALA:C	1:AO:188:ALA:H	2.28	0.42
1:AO:246:VAL:HB	1:AO:311:SER:HB3	2.02	0.42
1:AO:418:VAL:O	1:AO:418:VAL:HG12	2.19	0.42
1:AQ:60:ASN:HD21	1:AV:93:LYS:CE	2.29	0.42
1:AQ:149:ILE:CD1	1:AQ:157:VAL:HB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:36:LEU:HD22	1:AR:474:ARG:HD3	2.01	0.42
1:AR:167:ASP:OD1	1:AR:168:LYS:HG3	2.19	0.42
1:AR:502:ALA:HA	1:AR:505:VAL:HG12	2.02	0.42
1:AT:40:LYS:C	1:AT:48:MET:HE1	2.44	0.42
1:AT:157:VAL:O	1:AT:157:VAL:HG13	2.20	0.42
1:AT:313:ASP:OD1	1:AT:315:ARG:HG2	2.19	0.42
1:AX:70:ASP:O	1:AX:74:MET:HG3	2.20	0.42
1:AX:352:ARG:HD2	1:AX:356:ARG:O	2.20	0.42
1:A1:15:HIS:N	1:A1:499:MET:HE3	2.35	0.42
1:A2:104:GLN:HB3	1:A2:108:SER:OG	2.20	0.42
1:A2:502:ALA:HA	1:A2:505:VAL:HG12	2.02	0.42
1:A3:510:LEU:HD12	1:A8:490:ILE:HG22	2.01	0.42
1:A5:48:MET:SD	1:AH:442:ARG:HD3	2.59	0.42
1:A6:446:GLY:HA3	1:AP:41:ALA:CB	2.50	0.42
1:A8:201:LYS:HA	1:A8:208:ASP:CB	2.49	0.42
1:A8:461:VAL:CG1	1:AS:80:LYS:HG3	2.50	0.42
1:A9:167:ASP:OD1	1:A9:168:LYS:HG3	2.20	0.42
1:A9:244:TYR:C	1:A9:244:TYR:CD2	2.97	0.42
1:AA:422:LYS:C	1:AA:426:ILE:HD12	2.40	0.42
1:AA:502:ALA:HA	1:AA:505:VAL:HG12	2.01	0.42
1:AB:78:ALA:CB	1:AB:445:MET:HE1	2.47	0.42
1:AD:371:HIS:CB	1:AD:374:GLN:HG3	2.32	0.42
1:AE:201:LYS:HA	1:AE:208:ASP:CB	2.50	0.42
1:AE:467:LYS:HA	1:AE:467:LYS:HD3	1.84	0.42
1:AG:62:GLY:HA2	1:AG:65:ILE:HD12	2.02	0.42
1:AG:74:MET:SD	1:AW:103:GLY:HA2	2.59	0.42
1:AG:117:GLN:OE1	1:AG:117:GLN:C	2.63	0.42
1:AG:491:LEU:HD23	1:AG:491:LEU:HA	1.88	0.42
1:AJ:337:ILE:HG22	1:AJ:342:HIS:HB2	2.01	0.42
1:AJ:507:GLN:HA	1:AP:490:ILE:CD1	2.50	0.42
1:AK:263:THR:HG21	1:AK:268:GLU:HG3	2.00	0.42
1:AK:470:GLU:HA	1:AK:473:ILE:CG2	2.49	0.42
1:AL:512:LEU:HD23	1:AP:496:SER:HB2	2.01	0.42
1:AM:480:GLU:O	1:AM:480:GLU:HG2	2.16	0.42
1:AN:250:GLY:HA2	1:AN:333:ASN:H	1.84	0.42
1:AN:352:ARG:HD3	1:AN:354:ASP:OD1	2.19	0.42
1:AO:144:ASN:ND2	1:AQ:247:MET:HE1	2.35	0.42
1:AO:174:MET:HE2	1:AO:174:MET:HB2	1.82	0.42
1:AP:422:LYS:HE3	1:AP:422:LYS:CA	2.47	0.42
1:AP:508:ASN:ND2	1:AP:512:LEU:HD12	2.34	0.42
1:AT:60:ASN:N	1:AT:60:ASN:ND2	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:190:ALA:O	1:AT:193:LEU:HG	2.19	0.42
1:AU:190:ALA:O	1:AU:193:LEU:HG	2.19	0.42
1:AU:284:LEU:O	1:AU:284:LEU:HD12	2.20	0.42
1:AV:24:ASP:CB	1:AV:488:TYR:CE2	3.03	0.42
1:AV:196:VAL:HG23	1:AV:196:VAL:O	2.20	0.42
1:AX:8:ASN:CA	1:AX:506:GLN:HE22	2.33	0.42
1:AX:300:SER:C	1:AX:301:LEU:HD23	2.45	0.42
1:A1:201:LYS:HB2	1:A1:359:ILE:CG1	2.49	0.42
1:A2:196:VAL:O	1:A2:196:VAL:HG23	2.19	0.42
1:A2:251:GLY:H	1:A2:332:GLY:CA	2.16	0.42
1:A3:201:LYS:HE2	1:A3:201:LYS:HB3	1.75	0.42
1:A3:335:ALA:HA	2:A3:606:P8E:O8	2.19	0.42
1:A4:389:ILE:HA	1:A4:416:ALA:HA	2.02	0.42
1:A5:297:VAL:CG1	1:A5:309:LEU:HG	2.50	0.42
1:A5:437:GLN:O	1:A5:441:ILE:HG13	2.19	0.42
1:A6:153:SER:O	1:A6:154:ASN:HB2	2.20	0.42
1:A6:179:PHE:HD1	1:A6:184:MET:CE	2.32	0.42
1:A6:278:ASN:CG	1:AT:212:GLU:HG3	2.45	0.42
1:A7:41:ALA:CB	1:AP:446:GLY:HA3	2.50	0.42
1:A7:214:VAL:HG11	1:A7:227:LEU:HB2	2.02	0.42
1:A7:426:ILE:HD12	1:A7:426:ILE:H	1.85	0.42
1:A9:41:ALA:HA	1:A9:48:MET:CE	2.50	0.42
1:A9:297:VAL:CG1	1:A9:309:LEU:HG	2.50	0.42
1:A9:449:GLN:NE2	1:AK:42:ALA:HB2	2.35	0.42
1:AA:179:PHE:HB2	1:AA:347:ARG:HG2	2.02	0.42
1:AA:234:PHE:HB3	1:AA:238:LEU:HD13	1.98	0.42
1:AD:422:LYS:C	1:AD:426:ILE:HD12	2.43	0.42
1:AF:249:THR:HB	1:AF:308:ASN:OD1	2.20	0.42
1:AF:313:ASP:OD1	1:AF:315:ARG:HG2	2.20	0.42
1:AF:376:VAL:HG23	1:AF:378:GLU:HG3	2.01	0.42
1:AG:212:GLU:HG3	1:AM:278:ASN:CG	2.45	0.42
1:AH:161:ILE:HG23	1:AH:445:MET:CE	2.48	0.42
1:AH:214:VAL:HG11	1:AH:227:LEU:CB	2.49	0.42
1:AI:124:ASP:OD1	1:AI:166:SER:HB3	2.20	0.42
1:AI:300:SER:O	1:AI:301:LEU:HD23	2.20	0.42
1:AJ:247:MET:HB2	1:AJ:402:ALA:HB1	2.02	0.42
1:AJ:335:ALA:HA	2:AJ:606:P8E:O8	2.20	0.42
1:AK:8:ASN:CA	1:AK:506:GLN:HE22	2.33	0.42
1:AL:104:GLN:HB3	1:AL:108:SER:HG	1.84	0.42
1:AL:227:LEU:O	1:AL:231:ILE:HG13	2.20	0.42
1:AL:501:GLN:HG3	1:AP:485:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:82:MET:HE3	1:AM:82:MET:HB2	1.93	0.42
1:AM:174:MET:O	1:AM:378:GLU:HA	2.19	0.42
1:AM:226:ALA:O	1:AM:230:ILE:HG23	2.20	0.42
1:AM:260:ARG:HA	1:AM:271:THR:OG1	2.20	0.42
1:AM:438:LEU:HD23	1:AM:438:LEU:HA	1.86	0.42
1:AN:8:ASN:HA	1:AN:506:GLN:HE22	1.85	0.42
1:AN:170:GLY:HA2	1:AN:434:ALA:N	2.34	0.42
1:AO:300:SER:O	1:AO:301:LEU:HD23	2.20	0.42
1:AP:83:ASP:HB2	1:AP:442:ARG:CZ	2.50	0.42
1:AP:146:GLU:HG3	1:AP:156:THR:HG21	2.02	0.42
1:AP:179:PHE:HB2	1:AP:347:ARG:HG2	2.02	0.42
1:AQ:214:VAL:HG11	1:AQ:227:LEU:CB	2.50	0.42
1:AR:47:GLY:O	1:AR:50:ILE:HG22	2.20	0.42
1:AU:167:ASP:HB3	1:AU:384:ARG:CZ	2.49	0.42
1:AU:386:VAL:CG2	1:AU:427:VAL:HG22	2.44	0.42
1:AV:20:GLN:HA	1:AV:23:ARG:HH12	1.78	0.42
1:AV:410:ASN:HD21	1:AV:414:ILE:CG2	2.33	0.42
1:AW:195:GLU:HG3	1:AW:215:ARG:HG2	2.02	0.42
1:AX:100:ALA:HB2	1:AX:424:ALA:CB	2.48	0.42
1:AX:189:ALA:HA	1:AX:192:ASN:CG	2.45	0.42
1:AX:425:MET:O	1:AX:429:ASP:OD1	2.38	0.42
1:A1:389:ILE:HA	1:A1:416:ALA:HA	2.02	0.41
1:A2:5:ILE:CD1	1:A2:506:GLN:HG2	2.50	0.41
1:A2:84:GLU:OE2	1:AM:457:ASN:HB2	2.20	0.41
1:A2:91:THR:O	1:A2:95:LYS:HG3	2.21	0.41
1:A3:250:GLY:HA2	1:A3:333:ASN:H	1.85	0.41
1:A4:201:LYS:HA	1:A4:208:ASP:CB	2.50	0.41
1:A4:261:GLU:OE2	1:A4:322:ALA:HB2	2.20	0.41
1:A4:278:ASN:OD1	1:AF:212:GLU:HG3	2.20	0.41
1:A4:319:VAL:H	1:A4:342:HIS:HD2	1.68	0.41
1:A5:122:GLU:CD	1:AD:451:GLU:HG2	2.45	0.41
1:A7:422:LYS:HE3	1:A7:422:LYS:CA	2.50	0.41
1:A8:456:ILE:HD13	1:A8:456:ILE:HA	1.91	0.41
1:A9:174:MET:CE	1:A9:398:ALA:HA	2.50	0.41
1:A9:227:LEU:O	1:A9:231:ILE:HG13	2.20	0.41
1:AA:259:VAL:HA	1:AA:324:ALA:HB2	2.02	0.41
1:AA:335:ALA:HA	2:AA:606:P8E:O8	2.19	0.41
1:AA:395:ALA:CB	1:AA:414:ILE:HG23	2.50	0.41
1:AA:463:GLN:HA	1:AA:466:VAL:CG2	2.50	0.41
1:AB:478:PHE:HE2	1:AH:5:ILE:CG2	2.32	0.41
1:AC:8:ASN:CA	1:AC:506:GLN:HE22	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:89:LEU:CA	1:AC:92:ILE:HD12	2.49	0.41
1:AC:249:THR:HB	1:AC:308:ASN:OD1	2.19	0.41
1:AC:422:LYS:HA	1:AC:422:LYS:HE3	2.02	0.41
1:AD:249:THR:HB	1:AD:308:ASN:OD1	2.20	0.41
1:AE:63:GLN:HG3	1:AK:97:VAL:HG12	2.01	0.41
1:AE:84:GLU:O	1:AE:88:ILE:HG13	2.20	0.41
1:AE:174:MET:HE3	1:AE:398:ALA:HA	2.01	0.41
1:AF:201:LYS:HE2	1:AF:201:LYS:HB3	1.74	0.41
1:AF:259:VAL:HA	1:AF:324:ALA:HB1	2.01	0.41
1:AG:61:LEU:HD12	1:AG:463:GLN:HA	2.01	0.41
1:AG:212:GLU:OE1	1:AG:212:GLU:CA	2.66	0.41
1:AG:328:VAL:O	1:AG:329:PHE:C	2.63	0.41
1:AH:80:LYS:CB	1:AI:461:VAL:HG11	2.47	0.41
1:AH:192:ASN:HA	1:AH:367:HIS:CE1	2.56	0.41
1:AH:502:ALA:O	1:AH:505:VAL:HG12	2.20	0.41
1:AI:85:GLN:OE1	1:AI:123:LEU:HG	2.19	0.41
1:AI:184:MET:O	1:AI:184:MET:HE3	2.19	0.41
1:AJ:157:VAL:HG11	1:AJ:452:LEU:HD21	2.01	0.41
1:AK:260:ARG:HA	1:AK:271:THR:OG1	2.20	0.41
1:AL:167:ASP:OD1	1:AL:168:LYS:HG3	2.20	0.41
1:AL:249:THR:HB	1:AL:308:ASN:OD1	2.19	0.41
1:AN:82:MET:HG3	1:AN:138:LEU:HD13	2.01	0.41
1:AN:120:LEU:HD21	1:AN:166:SER:HB2	2.01	0.41
1:AO:74:MET:SD	1:AQ:103:GLY:HA2	2.59	0.41
1:AO:146:GLU:HG3	1:AO:156:THR:HG21	2.00	0.41
1:AO:502:ALA:HA	1:AO:505:VAL:HG12	2.02	0.41
1:AP:437:GLN:O	1:AP:441:ILE:HG13	2.20	0.41
1:AQ:179:PHE:CD1	1:AQ:184:MET:HE2	2.54	0.41
1:AQ:502:ALA:O	1:AQ:505:VAL:HG12	2.20	0.41
1:AR:129:THR:HG21	1:AU:155:THR:CG2	2.50	0.41
1:AR:259:VAL:HA	1:AR:324:ALA:HB1	2.02	0.41
1:AR:259:VAL:O	1:AR:271:THR:HG23	2.19	0.41
1:AS:189:ALA:C	1:AS:343:ALA:HB3	2.45	0.41
1:AS:203:VAL:CG2	1:AS:209:TYR:HD2	2.28	0.41
1:AT:250:GLY:HA2	1:AT:333:ASN:H	1.85	0.41
1:AT:389:ILE:HG13	1:AT:415:GLY:C	2.45	0.41
1:AU:167:ASP:OD1	1:AU:168:LYS:HG3	2.20	0.41
1:AU:273:ASN:HD21	1:AX:173:ARG:NH2	2.18	0.41
1:AV:184:MET:HE1	1:AV:345:ILE:CD1	2.50	0.41
1:AV:401:ASN:OD1	1:AV:407:ALA:HA	2.20	0.41
1:AW:369:GLY:HA2	1:AW:374:GLN:HE22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:20:GLN:O	1:AX:24:ASP:OD1	2.38	0.41
1:AX:196:VAL:HG23	1:AX:196:VAL:O	2.20	0.41
1:A1:61:LEU:CD2	1:A1:151:ALA:HB2	2.50	0.41
1:A1:212:GLU:OE2	1:AB:253:PRO:HB3	2.20	0.41
1:A1:479:ALA:HB3	1:AI:3:PHE:CD2	2.56	0.41
1:A3:177:SER:OG	1:A3:347:ARG:HA	2.20	0.41
1:A3:196:VAL:O	1:A3:196:VAL:HG23	2.20	0.41
1:A3:251:GLY:H	1:A3:333:ASN:N	2.18	0.41
1:A4:91:THR:O	1:A4:95:LYS:HG3	2.20	0.41
1:A6:335:ALA:HA	2:A6:606:P8E:O8	2.20	0.41
1:A7:146:GLU:HG2	1:AP:421:LEU:CD2	2.44	0.41
1:A8:5:ILE:HG12	1:AK:490:ILE:CG2	2.50	0.41
1:A8:216:ILE:HD13	1:A8:223:GLY:C	2.45	0.41
1:A9:65:ILE:HA	1:A9:459:ILE:HD11	2.03	0.41
1:A9:170:GLY:HA2	1:A9:434:ALA:N	2.35	0.41
1:A9:249:THR:HB	1:A9:308:ASN:OD1	2.19	0.41
1:AA:196:VAL:HG23	1:AA:196:VAL:O	2.20	0.41
1:AB:211:ILE:HD13	1:AB:234:PHE:CD2	2.50	0.41
1:AC:179:PHE:HB2	1:AC:347:ARG:HG2	2.02	0.41
1:AC:227:LEU:O	1:AC:231:ILE:HG13	2.19	0.41
1:AC:300:SER:O	1:AC:301:LEU:HD23	2.20	0.41
1:AD:335:ALA:HA	2:AD:606:P8E:O8	2.20	0.41
1:AE:510:LEU:N	1:AE:510:LEU:HD23	2.34	0.41
1:AF:33:SER:O	1:AN:17:VAL:HG11	2.21	0.41
1:AF:61:LEU:HB3	1:AF:463:GLN:HB2	2.01	0.41
1:AF:188:ALA:HB2	2:AF:606:P8E:O1B	2.20	0.41
1:AF:259:VAL:HA	1:AF:324:ALA:HB2	2.02	0.41
1:AF:511:ARG:NH1	1:AF:512:LEU:HB2	2.35	0.41
1:AG:17:VAL:HG11	1:AM:33:SER:O	2.20	0.41
1:AG:56:SER:O	1:AG:60:ASN:OD1	2.38	0.41
1:AH:227:LEU:O	1:AH:230:ILE:HG12	2.19	0.41
1:AH:260:ARG:HH12	1:AH:323:SER:HB2	1.85	0.41
1:AH:487:LYS:HD2	1:AK:6:ASN:C	2.45	0.41
1:AI:5:ILE:HG12	1:AQ:490:ILE:HG22	2.02	0.41
1:AJ:502:ALA:O	1:AJ:505:VAL:HG12	2.18	0.41
1:AK:356:ARG:HH11	1:AK:356:ARG:HG3	1.84	0.41
1:AK:471:SER:O	1:AK:475:ASP:HB2	2.20	0.41
1:AL:142:PHE:CZ	1:AL:145:LYS:HG3	2.55	0.41
1:AL:313:ASP:OD1	1:AL:315:ARG:HG2	2.20	0.41
1:AL:502:ALA:O	1:AL:505:VAL:HG12	2.19	0.41
1:AM:89:LEU:HA	1:AM:89:LEU:HD23	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:246:VAL:HG22	1:AM:346:GLY:HA3	2.01	0.41
1:AM:329:PHE:CG	1:AM:330:GLY:N	2.88	0.41
1:AM:491:LEU:HD23	1:AM:491:LEU:HA	1.88	0.41
1:AM:507:GLN:HB2	1:AW:490:ILE:HD11	2.01	0.41
1:AN:211:ILE:HD11	1:AN:238:LEU:CD2	2.43	0.41
1:AN:259:VAL:HA	1:AN:324:ALA:HB1	2.02	0.41
1:AO:227:LEU:O	1:AO:231:ILE:HG13	2.19	0.41
1:AO:259:VAL:HA	1:AO:324:ALA:HB2	2.02	0.41
1:AP:263:THR:HG21	1:AP:268:GLU:HG3	2.01	0.41
1:AR:179:PHE:HD1	1:AR:184:MET:SD	2.43	0.41
1:AR:448:VAL:O	1:AR:452:LEU:HG	2.20	0.41
1:AR:491:LEU:HD23	1:AR:491:LEU:HA	1.89	0.41
1:AT:74:MET:HE2	1:AT:132:PHE:HD1	1.85	0.41
1:AU:321:ALA:CB	1:AU:337:ILE:HD12	2.50	0.41
1:AV:31:LYS:HE2	1:AV:37:ARG:O	2.20	0.41
1:AV:173:ARG:HD2	1:AV:357:ASP:HA	2.02	0.41
1:AW:74:MET:HE2	1:AW:132:PHE:CE1	2.55	0.41
1:AW:214:VAL:HG11	1:AW:227:LEU:HA	2.02	0.41
1:AX:258:THR:CG2	1:AX:274:ASP:H	2.33	0.41
1:A1:195:GLU:HG3	1:A1:215:ARG:HG2	2.01	0.41
1:A1:422:LYS:HE3	1:A1:422:LYS:CA	2.49	0.41
1:A3:60:ASN:N	1:A3:60:ASN:ND2	2.67	0.41
1:A3:92:ILE:HD12	1:A3:92:ILE:H	1.84	0.41
1:A3:184:MET:O	1:A3:189:ALA:HB2	2.20	0.41
1:A4:259:VAL:HA	1:A4:324:ALA:HB2	2.01	0.41
1:A4:369:GLY:HA2	1:A4:374:GLN:HE22	1.85	0.41
1:A5:61:LEU:HA	1:A5:61:LEU:HD23	1.80	0.41
1:A6:174:MET:HE2	1:A6:174:MET:HB2	1.79	0.41
1:A7:211:ILE:HD13	1:A7:211:ILE:HA	1.97	0.41
1:A7:461:VAL:CG1	1:AJ:80:LYS:HG3	2.50	0.41
1:A9:448:VAL:O	1:A9:452:LEU:HG	2.20	0.41
1:AA:214:VAL:CG1	1:AA:227:LEU:HD13	2.50	0.41
1:AA:418:VAL:O	1:AA:418:VAL:HG12	2.20	0.41
1:AB:91:THR:O	1:AB:95:LYS:HG3	2.20	0.41
1:AB:195:GLU:HG3	1:AB:215:ARG:HG2	2.02	0.41
1:AC:246:VAL:HB	1:AC:311:SER:HB3	2.02	0.41
1:AD:227:LEU:O	1:AD:230:ILE:HG12	2.20	0.41
1:AD:422:LYS:HA	1:AD:422:LYS:HE3	2.02	0.41
1:AD:446:GLY:O	1:AD:450:MET:HG3	2.19	0.41
1:AE:502:ALA:HA	1:AE:505:VAL:CG1	2.49	0.41
1:AG:384:ARG:HD2	1:AG:387:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:61:LEU:HB3	1:AH:463:GLN:HB2	2.01	0.41
1:AH:61:LEU:HD23	1:AH:61:LEU:HA	1.85	0.41
1:AH:292:LYS:O	1:AH:292:LYS:HG2	2.20	0.41
1:AI:140:GLY:HA3	1:AI:163:SER:HB2	2.02	0.41
1:AJ:85:GLN:OE1	1:AJ:123:LEU:HG	2.20	0.41
1:AJ:491:LEU:HD23	1:AJ:491:LEU:HA	1.93	0.41
1:AK:50:ILE:HD13	1:AK:50:ILE:HA	1.91	0.41
1:AK:172:VAL:HG12	1:AK:174:MET:HG3	2.02	0.41
1:AK:401:ASN:OD1	1:AK:410:ASN:HB3	2.21	0.41
1:AM:352:ARG:HD2	1:AM:356:ARG:O	2.19	0.41
1:AN:91:THR:O	1:AN:95:LYS:HG3	2.20	0.41
1:AN:175:GLU:HA	1:AN:377:ALA:O	2.20	0.41
1:AN:456:ILE:HD13	1:AN:456:ILE:HA	1.74	0.41
1:AQ:211:ILE:CD1	1:AQ:234:PHE:HD2	2.33	0.41
1:AQ:212:GLU:OE1	1:AQ:212:GLU:CA	2.67	0.41
1:AQ:502:ALA:HA	1:AQ:505:VAL:HG12	2.02	0.41
1:AR:418:VAL:O	1:AR:418:VAL:HG12	2.20	0.41
1:AS:82:MET:HG2	1:AS:138:LEU:HD13	2.02	0.41
1:AS:203:VAL:HG21	1:AS:209:TYR:CD2	2.46	0.41
1:AT:263:THR:HG21	1:AT:268:GLU:HG3	2.02	0.41
1:AU:227:LEU:O	1:AU:231:ILE:HG13	2.20	0.41
1:AU:437:GLN:O	1:AU:441:ILE:HG13	2.20	0.41
1:AX:263:THR:HA	1:AX:267:VAL:O	2.19	0.41
1:A1:92:ILE:HD12	1:A1:92:ILE:H	1.85	0.41
1:A1:174:MET:CE	1:A1:398:ALA:HB2	2.50	0.41
1:A2:179:PHE:CD1	1:A2:184:MET:HE2	2.52	0.41
1:A2:212:GLU:OE1	1:A2:212:GLU:CA	2.65	0.41
1:A2:249:THR:HB	1:A2:308:ASN:OD1	2.21	0.41
1:A2:389:ILE:HG13	1:A2:415:GLY:C	2.45	0.41
1:A2:410:ASN:HD21	1:A2:414:ILE:CG2	2.33	0.41
1:A4:29:LEU:HD23	1:A4:29:LEU:HA	1.86	0.41
1:A4:214:VAL:HG11	1:A4:227:LEU:HA	2.03	0.41
1:A4:418:VAL:HG12	1:A4:418:VAL:O	2.20	0.41
1:A5:438:LEU:HD23	1:A5:438:LEU:HA	1.86	0.41
1:A6:117:GLN:OE1	1:A6:117:GLN:C	2.64	0.41
1:A7:50:ILE:CD1	1:AJ:133:ASN:HD21	2.33	0.41
1:A7:363:VAL:HG22	1:A7:364:ASN:OD1	2.20	0.41
1:A8:214:VAL:CG1	1:A8:227:LEU:HD13	2.50	0.41
1:A8:437:GLN:O	1:A8:441:ILE:HG13	2.20	0.41
1:A8:448:VAL:O	1:A8:452:LEU:HG	2.21	0.41
1:A8:509:VAL:HG22	1:A8:510:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:511:ARG:HH12	1:A8:512:LEU:CD1	2.23	0.41
1:A9:422:LYS:HA	1:A9:422:LYS:HE3	2.02	0.41
1:A9:442:ARG:HG2	1:AK:48:MET:CE	2.51	0.41
1:A9:511:ARG:NH1	1:A9:512:LEU:HB2	2.35	0.41
1:AC:201:LYS:HE2	1:AC:201:LYS:HB3	1.75	0.41
1:AC:259:VAL:O	1:AC:271:THR:HG23	2.20	0.41
1:AD:319:VAL:H	1:AD:342:HIS:CE1	2.37	0.41
1:AD:328:VAL:O	1:AD:329:PHE:C	2.64	0.41
1:AE:66:ARG:HG2	1:AE:66:ARG:HH11	1.85	0.41
1:AE:214:VAL:CG1	1:AE:227:LEU:HD13	2.50	0.41
1:AE:229:GLU:O	1:AE:233:ARG:HG3	2.21	0.41
1:AE:300:SER:C	1:AE:301:LEU:HD23	2.45	0.41
1:AF:80:LYS:CB	1:AN:461:VAL:HG11	2.47	0.41
1:AF:151:ALA:O	1:AF:152:TYR:HD1	2.02	0.41
1:AG:186:ALA:C	1:AG:188:ALA:H	2.28	0.41
1:AH:253:PRO:HB3	1:AI:212:GLU:OE2	2.21	0.41
1:AI:129:THR:CG2	1:AO:155:THR:HG23	2.47	0.41
1:AI:249:THR:HB	1:AI:308:ASN:OD1	2.20	0.41
1:AJ:174:MET:CE	1:AJ:398:ALA:HB2	2.48	0.41
1:AJ:259:VAL:HG13	1:AJ:324:ALA:CB	2.51	0.41
1:AK:35:GLY:C	1:AK:476:VAL:HG12	2.46	0.41
1:AK:166:SER:O	1:AK:383:LEU:HB3	2.20	0.41
1:AK:249:THR:HB	1:AK:308:ASN:OD1	2.20	0.41
1:AL:451:GLU:HG3	1:AP:122:GLU:HB2	2.02	0.41
1:AM:233:ARG:HG2	1:AM:234:PHE:CD2	2.55	0.41
1:AO:5:ILE:CG2	1:AQ:478:PHE:HE2	2.33	0.41
1:AO:6:ASN:HB3	1:AQ:475:ASP:OD2	2.21	0.41
1:AO:382:ASN:C	1:AO:430:MET:HE3	2.46	0.41
1:AP:251:GLY:N	1:AP:333:ASN:H	2.17	0.41
1:AQ:42:ALA:HB2	1:AV:449:GLN:HB3	2.02	0.41
1:AQ:260:ARG:HA	1:AQ:271:THR:OG1	2.20	0.41
1:AR:46:SER:HB2	1:AV:112:LEU:HD12	2.03	0.41
1:AR:445:MET:HA	1:AR:445:MET:CE	2.35	0.41
1:AS:88:ILE:CG2	1:AS:92:ILE:HD11	2.50	0.41
1:AS:300:SER:O	1:AS:301:LEU:HD23	2.21	0.41
1:AU:418:VAL:O	1:AU:418:VAL:HG12	2.21	0.41
1:AV:224:ILE:HG13	1:AV:244:TYR:HB2	2.02	0.41
1:AV:335:ALA:HA	2:AV:606:P8E:O8	2.20	0.41
1:AW:65:ILE:CG1	1:AW:459:ILE:HD11	2.50	0.41
1:AW:89:LEU:CA	1:AW:92:ILE:HD12	2.50	0.41
1:AW:511:ARG:HH12	1:AW:512:LEU:CD1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:418:VAL:HG22	1:AX:427:VAL:HG21	2.01	0.41
1:AX:430:MET:HE3	1:AX:430:MET:HB3	1.93	0.41
1:A1:75:VAL:O	1:A1:445:MET:HE1	2.19	0.41
1:A1:511:ARG:NH1	1:A1:512:LEU:HB2	2.35	0.41
1:A2:92:ILE:HD12	1:A2:92:ILE:H	1.84	0.41
1:A2:234:PHE:HB3	1:A2:238:LEU:HD13	2.02	0.41
1:A3:91:THR:O	1:A3:95:LYS:HG3	2.20	0.41
1:A3:319:VAL:HG12	1:A3:342:HIS:HE1	1.77	0.41
1:A4:253:PRO:HB3	1:AF:212:GLU:OE2	2.20	0.41
1:A4:286:ASN:ND2	1:AT:437:GLN:HE22	2.19	0.41
1:A4:470:GLU:O	1:A4:473:ILE:HG22	2.20	0.41
1:A6:175:GLU:HA	1:A6:377:ALA:O	2.21	0.41
1:A6:251:GLY:H	1:A6:333:ASN:H	1.67	0.41
1:A6:302:ASP:CB	1:A6:308:ASN:HD21	2.33	0.41
1:A7:41:ALA:HB2	1:A7:48:MET:CE	2.50	0.41
1:A7:188:ALA:HB2	2:A7:606:P8E:O1B	2.20	0.41
1:A7:235:SER:HB2	1:A7:240:VAL:O	2.20	0.41
1:A7:423:GLY:HA2	1:A7:426:ILE:HD12	2.00	0.41
1:A7:489:ASN:O	1:A7:493:GLN:HG2	2.20	0.41
1:A8:133:ASN:HD21	1:AE:50:ILE:HD11	1.86	0.41
1:A8:196:VAL:HG12	1:A8:364:ASN:HB3	2.03	0.41
1:A8:211:ILE:CD1	1:A8:238:LEU:HD21	2.42	0.41
1:A9:5:ILE:CD1	1:A9:506:GLN:HG2	2.51	0.41
1:AA:463:GLN:O	1:AA:466:VAL:HG22	2.21	0.41
1:AA:470:GLU:O	1:AA:473:ILE:HG23	2.20	0.41
1:AB:187:SER:HB3	1:AB:335:ALA:HB3	2.03	0.41
1:AB:192:ASN:HA	1:AB:367:HIS:CE1	2.56	0.41
1:AB:297:VAL:CG1	1:AB:309:LEU:HG	2.51	0.41
1:AB:369:GLY:HA2	1:AB:374:GLN:HE22	1.83	0.41
1:AC:294:ARG:HA	1:AC:294:ARG:HD2	1.87	0.41
1:AD:260:ARG:HH12	1:AD:323:SER:HB2	1.84	0.41
1:AD:284:LEU:O	1:AD:284:LEU:HD12	2.20	0.41
1:AD:342:HIS:CD2	1:AD:343:ALA:N	2.88	0.41
1:AE:41:ALA:HB2	1:AE:48:MET:CE	2.51	0.41
1:AE:247:MET:HE3	1:AE:402:ALA:CB	2.50	0.41
1:AF:167:ASP:OD1	1:AF:168:LYS:HG3	2.21	0.41
1:AF:300:SER:O	1:AF:301:LEU:HD23	2.20	0.41
1:AG:251:GLY:H	1:AG:333:ASN:H	1.68	0.41
1:AH:259:VAL:O	1:AH:271:THR:HG23	2.20	0.41
1:AI:224:ILE:CD1	1:AI:345:ILE:O	2.68	0.41
1:AI:263:THR:HG21	1:AI:268:GLU:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:445:MET:HA	1:AI:445:MET:CE	2.48	0.41
1:AJ:224:ILE:HG13	1:AJ:244:TYR:HB2	2.02	0.41
1:AL:170:GLY:HA2	1:AL:434:ALA:N	2.36	0.41
1:AL:188:ALA:HB2	2:AL:606:P8E:O1B	2.20	0.41
1:AL:454:THR:HB	1:AP:122:GLU:CD	2.46	0.41
1:AM:74:MET:HG2	1:AM:132:PHE:CD1	2.55	0.41
1:AM:83:ASP:HB2	1:AM:442:ARG:CZ	2.51	0.41
1:AM:300:SER:O	1:AM:301:LEU:HD23	2.21	0.41
1:AN:249:THR:HB	1:AN:308:ASN:OD1	2.19	0.41
1:AN:502:ALA:HA	1:AN:505:VAL:HG12	2.02	0.41
1:AN:502:ALA:O	1:AN:505:VAL:HG12	2.19	0.41
1:AR:184:MET:HE1	1:AR:345:ILE:HD11	2.01	0.41
1:AR:201:LYS:HB3	1:AR:201:LYS:HE2	1.74	0.41
1:AR:211:ILE:HG22	1:AR:212:GLU:N	2.35	0.41
1:AT:167:ASP:OD1	1:AT:168:LYS:HG3	2.21	0.41
1:AV:214:VAL:CG1	1:AV:227:LEU:HD13	2.50	0.41
1:A1:328:VAL:C	1:A1:329:PHE:CD1	2.98	0.41
1:A2:88:ILE:HD11	1:AM:454:THR:CG2	2.37	0.41
1:A3:211:ILE:HD11	1:A3:238:LEU:HD21	2.01	0.41
1:A3:300:SER:C	1:A3:301:LEU:HD23	2.46	0.41
1:A4:284:LEU:O	1:A4:284:LEU:HD12	2.20	0.41
1:A5:106:LEU:HD13	1:A5:106:LEU:HA	1.93	0.41
1:A5:300:SER:O	1:A5:301:LEU:HD23	2.21	0.41
1:A6:78:ALA:O	1:A6:82:MET:HG3	2.21	0.41
1:A6:214:VAL:HG11	1:A6:227:LEU:HA	2.01	0.41
1:A7:116:ILE:HD13	1:A7:418:VAL:HG21	2.03	0.41
1:A7:167:ASP:HB3	1:A7:384:ARG:CZ	2.51	0.41
1:A7:471:SER:O	1:A7:475:ASP:HB2	2.21	0.41
1:A8:337:ILE:CG2	1:A8:342:HIS:CD2	3.04	0.41
1:A9:513:LEU:HD23	1:A9:513:LEU:HA	1.81	0.41
1:AB:418:VAL:O	1:AB:418:VAL:HG12	2.21	0.41
1:AC:88:ILE:HD11	1:AX:454:THR:CG2	2.30	0.41
1:AC:89:LEU:HA	1:AC:89:LEU:HD23	1.85	0.41
1:AD:212:GLU:OE1	1:AD:212:GLU:CA	2.67	0.41
1:AD:230:ILE:HG13	1:AD:231:ILE:N	2.35	0.41
1:AE:5:ILE:CG2	1:AK:478:PHE:HE2	2.33	0.41
1:AE:98:GLN:HG2	1:AE:112:LEU:HD21	2.02	0.41
1:AE:157:VAL:HG22	1:AE:451:GLU:OE2	2.21	0.41
1:AF:84:GLU:HG2	1:AN:458:ASN:HB2	2.03	0.41
1:AF:422:LYS:HE3	1:AF:422:LYS:CA	2.50	0.41
1:AF:460:SER:O	1:AF:464:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:126:ILE:CG1	1:AP:458:ASN:HD22	2.33	0.41
1:AG:244:TYR:CD2	1:AG:244:TYR:C	2.99	0.41
1:AH:230:ILE:HG13	1:AH:231:ILE:N	2.35	0.41
1:AI:50:ILE:HD13	1:AI:50:ILE:HA	1.94	0.41
1:AI:201:LYS:HA	1:AI:208:ASP:CB	2.50	0.41
1:AI:418:VAL:O	1:AI:418:VAL:HG12	2.20	0.41
1:AJ:91:THR:O	1:AJ:95:LYS:HG3	2.20	0.41
1:AJ:119:LEU:HD23	1:AJ:119:LEU:HA	1.90	0.41
1:AJ:163:SER:OG	1:AJ:168:LYS:HD3	2.21	0.41
1:AL:6:ASN:OD1	1:AS:491:LEU:HD11	2.20	0.41
1:AN:338:SER:H	2:AN:608:P8E:C1	2.34	0.41
1:AN:389:ILE:HA	1:AN:416:ALA:HA	2.03	0.41
1:AN:470:GLU:O	1:AN:473:ILE:HG23	2.20	0.41
1:AO:106:LEU:HD13	1:AO:106:LEU:HA	1.95	0.41
1:AO:247:MET:HB2	1:AO:402:ALA:HB1	2.01	0.41
1:AP:35:GLY:C	1:AP:476:VAL:HG12	2.46	0.41
1:AP:313:ASP:OD1	1:AP:315:ARG:HG2	2.21	0.41
1:AQ:300:SER:C	1:AQ:301:LEU:HD23	2.45	0.41
1:AR:80:LYS:HG3	1:AU:461:VAL:CG1	2.49	0.41
1:AR:200:PHE:CD1	1:AR:238:LEU:HD13	2.55	0.41
1:AS:259:VAL:HA	1:AS:324:ALA:CB	2.50	0.41
1:AT:201:LYS:HB3	1:AT:201:LYS:HE2	1.75	0.41
1:AU:117:GLN:HE21	1:AU:387:ARG:CD	2.28	0.41
1:AV:328:VAL:O	1:AV:329:PHE:C	2.63	0.41
1:AX:35:GLY:C	1:AX:476:VAL:HG12	2.45	0.41
1:AX:277:LYS:HG2	1:AX:278:ASN:ND2	2.36	0.41
1:AX:384:ARG:HG2	1:AX:384:ARG:HH11	1.85	0.41
1:A1:8:ASN:HB3	1:A1:11:ALA:HB3	2.03	0.41
1:A1:297:VAL:CG1	1:A1:309:LEU:HG	2.50	0.41
1:A3:461:VAL:CG1	1:AL:80:LYS:HG3	2.51	0.41
1:A4:218:THR:O	1:A4:315:ARG:HD3	2.21	0.41
1:A4:392:ALA:HB2	1:A4:411:SER:O	2.20	0.41
1:A4:421:LEU:O	1:A4:424:ALA:HB3	2.20	0.41
1:A4:449:GLN:NE2	1:AT:42:ALA:HB2	2.36	0.41
1:A6:313:ASP:OD1	1:A6:315:ARG:HG2	2.21	0.41
1:A7:153:SER:HB3	1:AP:429:ASP:OD2	2.21	0.41
1:A7:249:THR:HB	1:A7:308:ASN:OD1	2.20	0.41
1:A8:38:ILE:HD12	1:A8:474:ARG:HA	2.02	0.41
1:A8:224:ILE:CG1	1:A8:244:TYR:HB2	2.42	0.41
1:A9:33:SER:O	1:AH:17:VAL:HG11	2.20	0.41
1:A9:184:MET:O	1:A9:184:MET:HE3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:452:LEU:O	1:A9:455:THR:HG23	2.20	0.41
1:AB:170:GLY:HA2	1:AB:434:ALA:N	2.35	0.41
1:AB:302:ASP:CB	1:AB:308:ASN:HD21	2.29	0.41
1:AC:423:GLY:HA2	1:AC:426:ILE:HD12	2.01	0.41
1:AD:489:ASN:O	1:AD:493:GLN:HG2	2.21	0.41
1:AF:89:LEU:HA	1:AF:89:LEU:HD23	1.86	0.41
1:AF:174:MET:HE3	1:AF:398:ALA:HB2	2.02	0.41
1:AG:80:LYS:HG3	1:AP:461:VAL:CG1	2.51	0.41
1:AG:90:ASP:OD2	1:AG:90:ASP:C	2.64	0.41
1:AG:206:VAL:HG13	1:AG:207:ASN:N	2.36	0.41
1:AH:161:ILE:CG2	1:AH:445:MET:HE1	2.50	0.41
1:AH:422:LYS:HE3	1:AH:422:LYS:HA	2.03	0.41
1:AI:8:ASN:HA	1:AI:506:GLN:HE22	1.85	0.41
1:AJ:422:LYS:HA	1:AJ:422:LYS:HE3	2.02	0.41
1:AK:184:MET:O	1:AK:184:MET:HE3	2.20	0.41
1:AL:84:GLU:HA	1:AL:84:GLU:OE2	2.20	0.41
1:AL:161:ILE:HG12	1:AL:445:MET:SD	2.61	0.41
1:AL:258:THR:CG2	1:AL:274:ASP:H	2.34	0.41
1:AL:335:ALA:HA	2:AL:606:P8E:O8	2.20	0.41
1:AL:438:LEU:HD23	1:AL:438:LEU:HA	1.87	0.41
1:AL:450:MET:HE1	1:AP:115:ASP:OD1	2.21	0.41
1:AM:153:SER:O	1:AM:154:ASN:HB2	2.20	0.41
1:AM:214:VAL:HG11	1:AM:227:LEU:HA	2.02	0.41
1:AM:300:SER:C	1:AM:301:LEU:HD23	2.45	0.41
1:AN:261:GLU:OE2	1:AN:322:ALA:HB2	2.21	0.41
1:AN:390:PHE:CE2	1:AN:417:GLY:HA2	2.56	0.41
1:AO:264:ILE:CD1	1:AO:295:THR:HG21	2.51	0.41
1:AO:422:LYS:HE3	1:AO:422:LYS:CA	2.51	0.41
1:AO:448:VAL:O	1:AO:452:LEU:HG	2.21	0.41
1:AR:41:ALA:HA	1:AR:48:MET:CE	2.50	0.41
1:AR:262:LEU:HD11	1:AR:319:VAL:HG23	2.02	0.41
1:AR:300:SER:O	1:AR:301:LEU:HD23	2.21	0.41
1:AU:90:ASP:OD2	1:AU:90:ASP:C	2.64	0.41
1:AU:201:LYS:HE2	1:AU:201:LYS:HB3	1.74	0.41
1:AU:491:LEU:HD23	1:AU:491:LEU:HA	1.87	0.41
1:AU:511:ARG:HH12	1:AU:512:LEU:CD1	2.24	0.41
1:AV:61:LEU:HB3	1:AV:463:GLN:HB2	2.02	0.41
1:AW:188:ALA:HB2	2:AW:606:P8E:O1B	2.20	0.41
1:AX:138:LEU:N	1:AX:138:LEU:HD23	2.36	0.41
1:A1:214:VAL:HG11	1:A1:227:LEU:CB	2.51	0.41
1:A1:502:ALA:HA	1:A1:505:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:201:LYS:HE2	1:A2:201:LYS:HB3	1.74	0.41
1:A2:278:ASN:CG	1:AM:212:GLU:HG3	2.46	0.41
1:A3:60:ASN:N	1:A3:60:ASN:HD22	2.17	0.41
1:A4:418:VAL:HG22	1:A4:427:VAL:HG21	2.01	0.41
1:A4:473:ILE:HD12	1:A4:473:ILE:O	2.20	0.41
1:A5:29:LEU:HD23	1:A5:29:LEU:HA	1.87	0.41
1:A6:157:VAL:HG22	1:A6:451:GLU:OE2	2.20	0.41
1:A6:259:VAL:HB	1:A6:272:VAL:HG22	2.02	0.41
1:A6:395:ALA:HB1	1:A6:410:ASN:OD1	2.20	0.41
1:A6:470:GLU:O	1:A6:473:ILE:HG23	2.21	0.41
1:A7:258:THR:CG2	1:A7:274:ASP:H	2.34	0.41
1:A8:212:GLU:OE1	1:A8:212:GLU:CA	2.69	0.41
1:A8:260:ARG:HH12	1:A8:323:SER:HB2	1.84	0.41
1:A9:29:LEU:HD21	1:A9:485:PHE:CE1	2.55	0.41
1:A9:211:ILE:CG2	1:A9:212:GLU:N	2.84	0.41
1:AB:173:ARG:HD2	1:AB:357:ASP:HA	2.02	0.41
1:AB:261:GLU:OE2	1:AB:322:ALA:HB2	2.21	0.41
1:AB:352:ARG:HB3	1:AB:358:ILE:HD11	2.01	0.41
1:AB:421:LEU:O	1:AB:424:ALA:HB3	2.21	0.41
1:AB:422:LYS:HE3	1:AB:422:LYS:CA	2.49	0.41
1:AC:48:MET:HE1	1:AR:442:ARG:HB3	2.03	0.41
1:AC:167:ASP:HA	1:AC:384:ARG:CB	2.44	0.41
1:AC:214:VAL:CG1	1:AC:227:LEU:HD13	2.51	0.41
1:AC:319:VAL:O	1:AC:319:VAL:HG13	2.21	0.41
1:AC:368:VAL:O	1:AC:368:VAL:HG22	2.21	0.41
1:AC:371:HIS:HB3	1:AC:374:GLN:CG	2.34	0.41
1:AD:167:ASP:CA	1:AD:384:ARG:HB2	2.48	0.41
1:AD:423:GLY:O	1:AD:427:VAL:HG23	2.20	0.41
1:AE:422:LYS:HE3	1:AE:422:LYS:CA	2.51	0.41
1:AF:478:PHE:HE2	1:AS:5:ILE:HG21	1.86	0.41
1:AH:122:GLU:CG	1:AI:451:GLU:HG3	2.48	0.41
1:AI:238:LEU:HD23	1:AI:238:LEU:HA	1.74	0.41
1:AI:426:ILE:HG22	1:AI:430:MET:SD	2.60	0.41
1:AJ:458:ASN:HB2	1:AU:84:GLU:HG3	2.03	0.41
1:AJ:502:ALA:HA	1:AJ:505:VAL:HG12	2.03	0.41
1:AK:461:VAL:CG1	1:AN:80:LYS:HG3	2.50	0.41
1:AK:495:GLY:C	1:AK:499:MET:HE3	2.45	0.41
1:AL:190:ALA:O	1:AL:193:LEU:HG	2.20	0.41
1:AN:74:MET:HG2	1:AN:137:MET:CE	2.51	0.41
1:AN:83:ASP:HB2	1:AN:442:ARG:CZ	2.51	0.41
1:AP:8:ASN:CA	1:AP:506:GLN:HE22	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:212:GLU:OE1	1:AP:212:GLU:CA	2.69	0.41
1:AR:89:LEU:HA	1:AR:89:LEU:HD23	1.88	0.41
1:AT:82:MET:HE1	1:AT:442:ARG:N	2.35	0.41
1:AT:259:VAL:O	1:AT:271:THR:HG23	2.20	0.41
1:AT:502:ALA:HA	1:AT:505:VAL:HG12	2.03	0.41
1:AU:513:LEU:O	1:AU:514:GLN:HB3	2.21	0.41
1:AV:93:LYS:O	1:AV:97:VAL:HG23	2.21	0.41
1:AV:313:ASP:OD1	1:AV:315:ARG:HG2	2.21	0.41
1:AW:120:LEU:CD2	1:AW:166:SER:HB2	2.51	0.41
1:AW:422:LYS:HE3	1:AW:422:LYS:CA	2.51	0.41
1:AX:198:LEU:HD22	1:AX:227:LEU:HD11	2.02	0.41
1:A1:188:ALA:HB2	2:A1:606:P8E:O1B	2.20	0.41
1:A1:249:THR:HB	1:A1:308:ASN:OD1	2.20	0.41
1:A1:286:ASN:OD1	1:A1:286:ASN:C	2.64	0.41
1:A1:319:VAL:H	1:A1:342:HIS:HD2	1.69	0.41
1:A1:458:ASN:HD22	1:AB:126:ILE:CG1	2.34	0.41
1:A2:188:ALA:HB2	2:A2:606:P8E:O1B	2.20	0.41
1:A2:429:ASP:OD1	1:AR:153:SER:HB3	2.21	0.41
1:A3:65:ILE:HG12	1:A3:459:ILE:CD1	2.51	0.41
1:A3:471:SER:O	1:A3:475:ASP:HB2	2.21	0.41
1:A4:122:GLU:CG	1:AF:451:GLU:HG3	2.51	0.41
1:A4:283:ARG:HG3	1:A4:284:LEU:N	2.35	0.41
1:A4:502:ALA:HA	1:A4:505:VAL:HG12	2.01	0.41
1:A5:188:ALA:HB2	2:A5:606:P8E:O1B	2.20	0.41
1:A5:262:LEU:HD12	1:A5:263:THR:N	2.36	0.41
1:A5:489:ASN:O	1:A5:493:GLN:HG2	2.20	0.41
1:A5:490:ILE:HG22	1:AE:510:LEU:HD12	2.01	0.41
1:A6:90:ASP:OD2	1:A6:90:ASP:C	2.64	0.41
1:A6:247:MET:HE3	1:A6:310:HIS:ND1	2.35	0.41
1:A6:422:LYS:HE3	1:A6:422:LYS:CA	2.48	0.41
1:A7:60:ASN:HD21	1:AP:93:LYS:CD	2.33	0.41
1:A7:79:ASP:HA	1:A7:82:MET:HE3	2.03	0.41
1:A7:123:LEU:HD23	1:A7:123:LEU:C	2.45	0.41
1:A7:249:THR:HG21	1:A7:405:ALA:HB3	2.02	0.41
1:A7:300:SER:C	1:A7:301:LEU:HD23	2.46	0.41
1:A7:370:PHE:CA	1:A7:376:VAL:HG11	2.48	0.41
1:A7:418:VAL:HG22	1:A7:427:VAL:HG21	2.03	0.41
1:A8:41:ALA:CB	1:AN:446:GLY:HA3	2.50	0.41
1:A8:133:ASN:ND2	1:AN:105:THR:HG23	2.36	0.41
1:A8:422:LYS:C	1:A8:426:ILE:HD12	2.43	0.41
1:A8:507:GLN:HA	1:AK:490:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:80:LYS:CB	1:AH:461:VAL:HG11	2.48	0.41
1:AA:89:LEU:HA	1:AA:89:LEU:HD23	1.84	0.41
1:AA:184:MET:HA	1:AA:192:ASN:ND2	2.20	0.41
1:AA:201:LYS:HE2	1:AA:201:LYS:HB3	1.74	0.41
1:AA:229:GLU:O	1:AA:233:ARG:HG3	2.21	0.41
1:AA:259:VAL:HA	1:AA:324:ALA:HB1	2.02	0.41
1:AA:261:GLU:OE2	1:AA:322:ALA:HB2	2.21	0.41
1:AA:263:THR:HG21	1:AA:268:GLU:HG3	2.03	0.41
1:AA:352:ARG:HD2	1:AA:356:ARG:O	2.21	0.41
1:AA:384:ARG:HG2	1:AA:384:ARG:HH11	1.86	0.41
1:AA:384:ARG:HD2	1:AA:387:ARG:NH2	2.35	0.41
1:AA:422:LYS:HA	1:AA:422:LYS:HE3	2.03	0.41
1:AA:422:LYS:HE3	1:AA:422:LYS:HB3	1.85	0.41
1:AB:93:LYS:CE	1:AH:60:ASN:HD21	2.30	0.41
1:AB:106:LEU:HD13	1:AB:106:LEU:HA	1.91	0.41
1:AB:214:VAL:HG11	1:AB:227:LEU:HA	2.03	0.41
1:AB:214:VAL:CG1	1:AB:227:LEU:HD13	2.51	0.41
1:AB:247:MET:HE2	1:AB:310:HIS:ND1	2.36	0.41
1:AB:382:ASN:C	1:AB:430:MET:HE3	2.46	0.41
1:AC:91:THR:O	1:AC:95:LYS:HG3	2.21	0.41
1:AC:163:SER:OG	1:AC:168:LYS:HD3	2.21	0.41
1:AC:259:VAL:HA	1:AC:324:ALA:HB1	2.01	0.41
1:AC:291:VAL:HG23	1:AC:295:THR:HG23	1.99	0.41
1:AD:196:VAL:O	1:AD:196:VAL:HG23	2.20	0.41
1:AF:93:LYS:CE	1:AS:60:ASN:HD21	2.33	0.41
1:AF:428:MET:HE2	1:AF:428:MET:HB2	1.89	0.41
1:AG:8:ASN:CA	1:AG:506:GLN:HE22	2.34	0.41
1:AG:50:ILE:HD13	1:AG:50:ILE:HA	1.94	0.41
1:AG:106:LEU:HD13	1:AG:106:LEU:HA	1.93	0.41
1:AG:175:GLU:HA	1:AG:377:ALA:O	2.21	0.41
1:AG:203:VAL:HG23	1:AG:204:ASN:N	2.36	0.41
1:AG:234:PHE:CE2	1:AM:303:ILE:HD12	2.55	0.41
1:AG:235:SER:HB2	1:AG:240:VAL:O	2.21	0.41
1:AG:269:ILE:O	1:AJ:356:ARG:HD2	2.21	0.41
1:AG:283:ARG:HG3	1:AG:284:LEU:N	2.35	0.41
1:AG:468:ALA:HA	1:AJ:9:ILE:CD1	2.47	0.41
1:AG:513:LEU:O	1:AG:514:GLN:HB3	2.21	0.41
1:AH:8:ASN:CA	1:AH:506:GLN:HE22	2.34	0.41
1:AH:117:GLN:C	1:AH:117:GLN:OE1	2.63	0.41
1:AH:297:VAL:CG1	1:AH:309:LEU:HG	2.51	0.41
1:AH:325:SER:O	1:AH:329:PHE:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:74:MET:HB3	1:AI:137:MET:HE1	2.03	0.41
1:AI:86:ILE:HD13	1:AI:439:ASP:OD1	2.21	0.41
1:AI:438:LEU:HD23	1:AI:438:LEU:HA	1.87	0.41
1:AI:448:VAL:O	1:AI:452:LEU:HG	2.20	0.41
1:AJ:4:ARG:H	1:AJ:4:ARG:HD2	1.85	0.41
1:AJ:337:ILE:HG22	1:AJ:342:HIS:CD2	2.56	0.41
1:AJ:422:LYS:C	1:AJ:426:ILE:HD12	2.43	0.41
1:AK:89:LEU:HA	1:AK:89:LEU:HD23	1.86	0.41
1:AK:262:LEU:CD1	1:AK:319:VAL:HG23	2.51	0.41
1:AK:501:GLN:HG3	1:AN:485:PHE:CZ	2.56	0.41
1:AL:17:VAL:HG21	1:AP:33:SER:HB2	2.02	0.41
1:AL:50:ILE:HD13	1:AL:50:ILE:HA	1.84	0.41
1:AL:174:MET:HE3	1:AL:398:ALA:CA	2.51	0.41
1:AL:201:LYS:HA	1:AL:208:ASP:CB	2.50	0.41
1:AL:283:ARG:HG3	1:AL:284:LEU:N	2.35	0.41
1:AM:188:ALA:HB2	2:AM:606:P8E:O1B	2.21	0.41
1:AN:201:LYS:O	1:AN:359:ILE:HD11	2.20	0.41
1:AN:352:ARG:HD2	1:AN:356:ARG:O	2.21	0.41
1:AN:382:ASN:O	1:AN:430:MET:HE1	2.21	0.41
1:AN:438:LEU:HD23	1:AN:438:LEU:HA	1.86	0.41
1:AN:486:SER:O	1:AN:490:ILE:HG12	2.21	0.41
1:AO:137:MET:C	1:AO:138:LEU:HD23	2.46	0.41
1:AO:389:ILE:HA	1:AO:416:ALA:HA	2.03	0.41
1:AP:5:ILE:HD11	1:AP:506:GLN:HG2	2.03	0.41
1:AP:48:MET:HE3	1:AP:48:MET:HB3	1.85	0.41
1:AP:184:MET:SD	1:AP:345:ILE:HD11	2.61	0.41
1:AP:249:THR:HB	1:AP:308:ASN:OD1	2.21	0.41
1:AP:259:VAL:HG13	1:AP:324:ALA:CB	2.51	0.41
1:AP:335:ALA:HA	2:AP:606:P8E:O8	2.21	0.41
1:AP:418:VAL:HG12	1:AP:418:VAL:O	2.21	0.41
1:AP:511:ARG:HG3	1:AP:512:LEU:N	2.35	0.41
1:AQ:173:ARG:HD2	1:AQ:357:ASP:HA	2.01	0.41
1:AQ:259:VAL:HG13	1:AQ:324:ALA:HB3	2.02	0.41
1:AQ:371:HIS:CB	1:AQ:374:GLN:HG3	2.34	0.41
1:AS:186:ALA:C	1:AS:188:ALA:H	2.28	0.41
1:AS:212:GLU:OE1	1:AS:212:GLU:CA	2.69	0.41
1:AS:227:LEU:O	1:AS:231:ILE:HG13	2.21	0.41
1:AT:8:ASN:HA	1:AT:506:GLN:HE22	1.86	0.41
1:AT:450:MET:HE2	1:AT:450:MET:HB2	1.94	0.41
1:AT:491:LEU:HD23	1:AT:491:LEU:HA	1.90	0.41
1:AU:74:MET:HG3	1:AU:132:PHE:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:247:MET:HB3	1:AU:247:MET:HE2	1.81	0.41
1:AU:406:GLN:O	1:AU:409:THR:HG23	2.21	0.41
1:AU:422:LYS:HE3	1:AU:422:LYS:CA	2.51	0.41
1:AV:157:VAL:HG11	1:AV:452:LEU:CD2	2.51	0.41
1:AV:232:ASN:HA	1:AV:235:SER:HB3	2.03	0.41
1:AV:283:ARG:HG3	1:AV:284:LEU:N	2.36	0.41
1:AV:362:GLY:O	1:AV:365:PHE:HB3	2.21	0.41
1:AV:438:LEU:HD23	1:AV:438:LEU:HA	1.88	0.41
1:AW:5:ILE:CD1	1:AW:506:GLN:HG2	2.50	0.41
1:AW:263:THR:HG22	1:AW:268:GLU:HG3	2.02	0.41
1:AW:502:ALA:HA	1:AW:505:VAL:HG12	2.02	0.41
1:A1:99:ALA:HB3	1:A1:418:VAL:HG11	2.03	0.41
1:A1:300:SER:C	1:A1:301:LEU:HD23	2.45	0.41
1:A1:313:ASP:OD1	1:A1:315:ARG:HG2	2.21	0.41
1:A2:371:HIS:CB	1:A2:374:GLN:HG3	2.30	0.41
1:A3:249:THR:HB	1:A3:308:ASN:OD1	2.20	0.41
1:A5:84:GLU:O	1:A5:88:ILE:HG13	2.21	0.41
1:A5:89:LEU:HA	1:A5:89:LEU:HD23	1.87	0.41
1:A7:186:ALA:HB3	1:A7:334:PHE:O	2.21	0.41
1:A7:246:VAL:HB	1:A7:311:SER:HB3	2.02	0.41
1:A7:454:THR:CG2	1:AJ:88:ILE:HD11	2.41	0.41
1:A8:247:MET:HB2	1:A8:402:ALA:HB1	2.03	0.41
1:A9:285:THR:HG23	1:A9:299:ALA:CB	2.51	0.41
1:A9:489:ASN:O	1:A9:493:GLN:HG2	2.21	0.41
1:AA:36:LEU:HD21	1:AN:6:ASN:ND2	2.35	0.41
1:AA:65:ILE:CG1	1:AA:459:ILE:HD11	2.51	0.41
1:AB:179:PHE:HB2	1:AB:347:ARG:HG2	2.02	0.41
1:AB:248:ALA:HA	1:AB:334:PHE:HE2	1.83	0.41
1:AC:254:VAL:HG23	1:AC:254:VAL:O	2.21	0.41
1:AE:4:ARG:HG2	1:AK:475:ASP:HB2	2.03	0.41
1:AE:89:LEU:HA	1:AE:89:LEU:HD23	1.84	0.41
1:AG:122:GLU:OE2	1:AP:455:THR:N	2.54	0.41
1:AG:433:SER:O	1:AG:437:GLN:HG3	2.21	0.41
1:AG:490:ILE:HD11	1:AU:507:GLN:HB2	2.03	0.41
1:AH:14:SER:HB2	1:AH:499:MET:HG2	2.03	0.41
1:AI:122:GLU:OE2	1:AO:455:THR:N	2.54	0.41
1:AI:196:VAL:O	1:AI:196:VAL:HG23	2.20	0.41
1:AJ:279:ASP:CG	1:AJ:282:GLY:HA2	2.46	0.41
1:AK:214:VAL:CG1	1:AK:227:LEU:HD13	2.51	0.41
1:AK:251:GLY:H	1:AK:333:ASN:H	1.69	0.41
1:AL:201:LYS:HE2	1:AL:201:LYS:HB3	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:212:GLU:OE1	1:AL:234:PHE:HE2	2.04	0.41
1:AL:284:LEU:O	1:AL:284:LEU:HD12	2.21	0.41
1:AN:65:ILE:HG13	1:AN:459:ILE:HD11	2.03	0.41
1:AN:251:GLY:H	1:AN:333:ASN:H	1.68	0.41
1:AO:471:SER:O	1:AO:475:ASP:HB2	2.21	0.41
1:AP:262:LEU:HD11	1:AP:319:VAL:HG23	2.02	0.41
1:AQ:284:LEU:O	1:AQ:284:LEU:HD12	2.21	0.41
1:AR:249:THR:HB	1:AR:308:ASN:OD1	2.21	0.41
1:AU:371:HIS:CB	1:AU:374:GLN:HG3	2.38	0.41
1:AV:89:LEU:HA	1:AV:89:LEU:HD23	1.85	0.41
1:AV:423:GLY:HA2	1:AV:426:ILE:CD1	2.50	0.41
1:AW:459:ILE:CA	1:AW:462:THR:HG22	2.49	0.41
1:AX:224:ILE:HD13	1:AX:345:ILE:O	2.20	0.41
1:AX:313:ASP:OD1	1:AX:315:ARG:HG2	2.21	0.41
1:A1:211:ILE:CG2	1:A1:212:GLU:N	2.84	0.40
1:A1:461:VAL:HG11	1:AB:80:LYS:CB	2.49	0.40
1:A2:33:SER:C	1:AM:17:VAL:HG11	2.46	0.40
1:A2:438:LEU:HD23	1:A2:438:LEU:HA	1.86	0.40
1:A3:192:ASN:HA	1:A3:367:HIS:CE1	2.56	0.40
1:A3:313:ASP:OD1	1:A3:315:ARG:HG2	2.21	0.40
1:A4:173:ARG:HD2	1:A4:357:ASP:HA	2.03	0.40
1:A4:174:MET:O	1:A4:378:GLU:HA	2.20	0.40
1:A4:201:LYS:HD3	2:A4:602:P8E:O1A	2.21	0.40
1:A4:430:MET:HE2	1:A4:430:MET:HB3	1.89	0.40
1:A5:512:LEU:CD2	1:AK:496:SER:OG	2.69	0.40
1:A6:80:LYS:HG3	1:AT:461:VAL:CG1	2.51	0.40
1:A6:133:ASN:HD21	1:AT:50:ILE:HD11	1.86	0.40
1:A9:328:VAL:C	1:A9:329:PHE:CD1	3.00	0.40
1:AA:174:MET:O	1:AA:378:GLU:HA	2.21	0.40
1:AA:227:LEU:O	1:AA:230:ILE:HG12	2.20	0.40
1:AA:260:ARG:HA	1:AA:271:THR:OG1	2.21	0.40
1:AA:421:LEU:HD12	1:AA:421:LEU:C	2.46	0.40
1:AB:198:LEU:HD22	1:AB:227:LEU:HD11	2.03	0.40
1:AC:50:ILE:HD11	1:AO:133:ASN:HD21	1.86	0.40
1:AC:104:GLN:HB3	1:AC:108:SER:HG	1.87	0.40
1:AC:154:ASN:HA	1:AR:425:MET:CE	2.51	0.40
1:AC:297:VAL:CG1	1:AC:309:LEU:HG	2.51	0.40
1:AD:91:THR:O	1:AD:95:LYS:HG3	2.21	0.40
1:AD:174:MET:HE3	1:AD:174:MET:HB2	1.88	0.40
1:AD:250:GLY:O	1:AD:306:ARG:HD2	2.20	0.40
1:AD:297:VAL:CG1	1:AD:309:LEU:HG	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:48:MET:CE	1:AK:442:ARG:HG2	2.51	0.40
1:AE:100:ALA:HB2	1:AE:424:ALA:CB	2.49	0.40
1:AE:456:ILE:HD13	1:AE:456:ILE:HA	1.85	0.40
1:AF:371:HIS:CB	1:AF:374:GLN:HG3	2.34	0.40
1:AG:319:VAL:HG12	1:AG:342:HIS:HD2	1.83	0.40
1:AH:173:ARG:HD2	1:AH:357:ASP:HA	2.00	0.40
1:AI:285:THR:HG23	1:AI:299:ALA:CB	2.51	0.40
1:AJ:146:GLU:HB3	1:AJ:158:LYS:HD3	2.03	0.40
1:AK:61:LEU:HD12	1:AK:463:GLN:HA	2.03	0.40
1:AK:86:ILE:HD13	1:AK:439:ASP:OD1	2.20	0.40
1:AK:117:GLN:HE22	1:AK:387:ARG:CD	2.26	0.40
1:AK:406:GLN:O	1:AK:409:THR:HG23	2.22	0.40
1:AL:5:ILE:CG2	1:AT:478:PHE:HE2	2.34	0.40
1:AL:224:ILE:HG13	1:AL:244:TYR:HB2	2.02	0.40
1:AM:79:ASP:HA	1:AM:82:MET:HE3	2.02	0.40
1:AM:293:ASP:OD1	1:AM:294:ARG:HG2	2.21	0.40
1:AM:480:GLU:HB2	1:AR:15:HIS:CE1	2.56	0.40
1:AN:186:ALA:C	1:AN:188:ALA:H	2.28	0.40
1:AO:4:ARG:HG2	1:AQ:475:ASP:HB2	2.02	0.40
1:AP:89:LEU:HA	1:AP:89:LEU:HD23	1.86	0.40
1:AQ:61:LEU:CD2	1:AQ:151:ALA:HB2	2.51	0.40
1:AQ:192:ASN:HA	1:AQ:367:HIS:CE1	2.56	0.40
1:AQ:300:SER:O	1:AQ:301:LEU:HD23	2.21	0.40
1:AR:157:VAL:HG23	1:AR:451:GLU:OE2	2.21	0.40
1:AS:4:ARG:N	1:AS:4:ARG:HD2	2.37	0.40
1:AS:329:PHE:CG	1:AS:330:GLY:N	2.87	0.40
1:AS:455:THR:N	1:AT:122:GLU:OE2	2.54	0.40
1:AS:461:VAL:HG11	1:AT:80:LYS:CB	2.45	0.40
1:AT:35:GLY:C	1:AT:476:VAL:HG12	2.46	0.40
1:AT:146:GLU:HG3	1:AT:156:THR:HG21	2.02	0.40
1:AU:146:GLU:CB	1:AU:158:LYS:HD3	2.50	0.40
1:AV:167:ASP:HB3	1:AV:384:ARG:NH1	2.36	0.40
1:AV:376:VAL:HG23	1:AV:378:GLU:HG3	2.02	0.40
1:AW:227:LEU:O	1:AW:230:ILE:HG12	2.20	0.40
1:AW:249:THR:HB	1:AW:308:ASN:OD1	2.21	0.40
1:AW:392:ALA:HB2	1:AW:411:SER:O	2.21	0.40
1:AW:463:GLN:O	1:AW:466:VAL:HG22	2.21	0.40
1:AX:4:ARG:HG2	1:AX:4:ARG:NH1	2.35	0.40
1:AX:4:ARG:N	1:AX:4:ARG:HD3	2.37	0.40
1:AX:227:LEU:O	1:AX:231:ILE:HG13	2.21	0.40
1:A1:89:LEU:HA	1:A1:89:LEU:HD23	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:93:LYS:HG2	1:AI:60:ASN:ND2	2.23	0.40
1:A1:174:MET:O	1:A1:378:GLU:HA	2.21	0.40
1:A1:283:ARG:HG3	1:A1:284:LEU:N	2.35	0.40
1:A1:352:ARG:HD2	1:A1:356:ARG:O	2.20	0.40
1:A2:82:MET:CE	1:A2:438:LEU:HD22	2.52	0.40
1:A2:253:PRO:HB3	1:AM:212:GLU:OE2	2.21	0.40
1:A2:283:ARG:HG3	1:A2:284:LEU:N	2.35	0.40
1:A2:418:VAL:O	1:A2:418:VAL:HG12	2.20	0.40
1:A3:5:ILE:CD1	1:A3:510:LEU:HD21	2.51	0.40
1:A4:142:PHE:CZ	1:A4:145:LYS:HG3	2.56	0.40
1:A4:259:VAL:HA	1:A4:324:ALA:HB1	2.02	0.40
1:A4:395:ALA:CB	1:A4:414:ILE:HG23	2.52	0.40
1:A4:438:LEU:HA	1:A4:438:LEU:HD23	1.88	0.40
1:A5:235:SER:HB2	1:A5:240:VAL:O	2.21	0.40
1:A6:142:PHE:CZ	1:A6:145:LYS:HG3	2.57	0.40
1:A6:192:ASN:HA	1:A6:367:HIS:CE1	2.56	0.40
1:A6:477:ASP:HB2	1:AP:4:ARG:HH12	1.86	0.40
1:A7:20:GLN:O	1:A7:24:ASP:OD1	2.39	0.40
1:A7:155:THR:CG2	1:AJ:129:THR:HG21	2.51	0.40
1:A8:471:SER:O	1:A8:475:ASP:HB2	2.21	0.40
1:A9:89:LEU:HA	1:A9:89:LEU:HD23	1.83	0.40
1:A9:227:LEU:O	1:A9:230:ILE:HG12	2.21	0.40
1:AA:106:LEU:HD13	1:AA:106:LEU:HA	1.91	0.40
1:AA:112:LEU:HG	1:AK:46:SER:HB2	2.02	0.40
1:AA:429:ASP:OD1	1:AN:153:SER:HB2	2.21	0.40
1:AA:437:GLN:O	1:AA:441:ILE:HG13	2.21	0.40
1:AA:484:ASN:OD1	1:AA:488:TYR:HE2	2.05	0.40
1:AB:108:SER:O	1:AB:112:LEU:CD1	2.70	0.40
1:AB:392:ALA:HB2	1:AB:411:SER:O	2.22	0.40
1:AB:479:ALA:HB3	1:AH:3:PHE:CD2	2.57	0.40
1:AC:80:LYS:HG3	1:AX:461:VAL:CG1	2.51	0.40
1:AC:284:LEU:O	1:AC:284:LEU:HD12	2.21	0.40
1:AD:41:ALA:HB2	1:AD:48:MET:HE2	2.02	0.40
1:AD:74:MET:HB3	1:AD:137:MET:HE1	2.03	0.40
1:AD:196:VAL:O	1:AD:213:THR:HA	2.21	0.40
1:AD:348:LEU:HG	1:AD:349:THR:N	2.36	0.40
1:AD:352:ARG:HH22	1:AD:356:ARG:NE	2.19	0.40
1:AE:20:GLN:O	1:AE:24:ASP:OD1	2.39	0.40
1:AE:189:ALA:HA	1:AE:192:ASN:ND2	2.36	0.40
1:AE:246:VAL:HB	1:AE:311:SER:HB3	2.03	0.40
1:AE:248:ALA:HB2	1:AE:344:VAL:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:300:SER:C	1:AF:301:LEU:HD23	2.46	0.40
1:AF:418:VAL:HG12	1:AF:418:VAL:O	2.21	0.40
1:AF:446:GLY:HA3	1:AS:41:ALA:CB	2.51	0.40
1:AG:115:ASP:OD1	1:AP:450:MET:HE1	2.21	0.40
1:AG:487:LYS:HE3	1:AU:6:ASN:O	2.21	0.40
1:AJ:82:MET:HG3	1:AJ:138:LEU:CD1	2.51	0.40
1:AJ:116:ILE:HD12	1:AJ:418:VAL:HG21	2.03	0.40
1:AJ:389:ILE:HG13	1:AJ:415:GLY:C	2.46	0.40
1:AJ:454:THR:HG21	1:AU:88:ILE:CD1	2.51	0.40
1:AK:186:ALA:C	1:AK:188:ALA:H	2.28	0.40
1:AK:284:LEU:O	1:AK:284:LEU:HD12	2.20	0.40
1:AL:60:ASN:HD21	1:AT:93:LYS:CD	2.34	0.40
1:AL:195:GLU:CD	1:AL:215:ARG:HG2	2.47	0.40
1:AL:471:SER:O	1:AL:475:ASP:HB2	2.21	0.40
1:AM:234:PHE:CB	1:AM:238:LEU:HD11	2.49	0.40
1:AN:89:LEU:HA	1:AN:89:LEU:HD23	1.86	0.40
1:AN:177:SER:HA	1:AN:369:GLY:O	2.20	0.40
1:AO:84:GLU:O	1:AO:88:ILE:HG13	2.22	0.40
1:AO:230:ILE:HG13	1:AO:231:ILE:N	2.37	0.40
1:AP:284:LEU:O	1:AP:284:LEU:HD12	2.21	0.40
1:AP:450:MET:HE2	1:AP:450:MET:HB2	1.89	0.40
1:AQ:89:LEU:HA	1:AQ:89:LEU:HD23	1.86	0.40
1:AT:170:GLY:HA2	1:AT:434:ALA:N	2.36	0.40
1:AT:179:PHE:HD1	1:AT:184:MET:CE	2.28	0.40
1:AT:186:ALA:C	1:AT:188:ALA:H	2.29	0.40
1:AT:458:ASN:OD1	1:AT:458:ASN:C	2.64	0.40
1:AU:32:LEU:HD22	1:AU:478:PHE:HE1	1.85	0.40
1:AU:196:VAL:HG12	1:AU:364:ASN:HB3	2.03	0.40
1:AU:268:GLU:HB3	1:AX:202:GLN:HG2	2.03	0.40
1:AV:108:SER:O	1:AV:112:LEU:CD1	2.69	0.40
1:AV:384:ARG:HD2	1:AV:387:ARG:NH2	2.36	0.40
1:AV:430:MET:HE3	1:AV:430:MET:HB3	1.90	0.40
1:AV:463:GLN:HA	1:AV:466:VAL:CG2	2.51	0.40
1:AV:491:LEU:HD23	1:AV:491:LEU:HA	1.92	0.40
1:AW:39:ASN:N	1:AW:39:ASN:HD22	2.20	0.40
1:A1:234:PHE:HE2	1:AB:303:ILE:O	2.04	0.40
1:A1:284:LEU:O	1:A1:284:LEU:HD12	2.20	0.40
1:A2:446:GLY:CA	1:AR:41:ALA:HB3	2.52	0.40
1:A3:5:ILE:HD12	1:AS:478:PHE:CD2	2.56	0.40
1:A3:41:ALA:CB	1:AS:446:GLY:HA3	2.50	0.40
1:A3:294:ARG:HD3	1:A3:294:ARG:HA	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:76:GLN:HG2	1:A5:449:GLN:OE1	2.21	0.40
1:A5:366:SER:HB2	1:A5:374:GLN:OE1	2.22	0.40
1:A5:511:ARG:NH2	1:A5:512:LEU:HD13	2.36	0.40
1:A7:116:ILE:HD12	1:A7:418:VAL:HG21	2.02	0.40
1:A7:463:GLN:O	1:A7:466:VAL:HG22	2.21	0.40
1:A8:91:THR:O	1:A8:95:LYS:HG3	2.22	0.40
1:A8:146:GLU:HG3	1:A8:156:THR:OG1	2.22	0.40
1:A8:418:VAL:HG12	1:A8:418:VAL:O	2.22	0.40
1:A9:15:HIS:HA	1:A9:499:MET:HE3	2.04	0.40
1:A9:99:ALA:HB3	1:A9:418:VAL:HG11	2.01	0.40
1:A9:214:VAL:HG11	1:A9:227:LEU:CB	2.50	0.40
1:A9:251:GLY:H	1:A9:333:ASN:H	1.69	0.40
1:AA:161:ILE:CG1	1:AA:445:MET:HE2	2.51	0.40
1:AA:192:ASN:HA	1:AA:367:HIS:CE1	2.57	0.40
1:AB:406:GLN:O	1:AB:409:THR:HG23	2.22	0.40
1:AB:410:ASN:HD21	1:AB:414:ILE:HG22	1.86	0.40
1:AC:292:LYS:HE3	1:AC:292:LYS:HB3	1.84	0.40
1:AC:461:VAL:CG1	1:AO:80:LYS:HB3	2.48	0.40
1:AD:29:LEU:HD23	1:AD:29:LEU:HA	1.84	0.40
1:AD:163:SER:OG	1:AD:168:LYS:HD3	2.20	0.40
1:AD:491:LEU:HD23	1:AD:491:LEU:HA	1.91	0.40
1:AE:184:MET:SD	1:AE:345:ILE:HD11	2.61	0.40
1:AF:91:THR:O	1:AF:95:LYS:HG3	2.21	0.40
1:AF:174:MET:HE2	1:AF:174:MET:HB2	1.87	0.40
1:AF:214:VAL:CG1	1:AF:227:LEU:HD13	2.50	0.40
1:AG:313:ASP:OD1	1:AG:315:ARG:HG2	2.22	0.40
1:AH:78:ALA:HB2	1:AH:137:MET:HE3	2.03	0.40
1:AH:470:GLU:HA	1:AH:473:ILE:HG22	2.04	0.40
1:AI:259:VAL:HA	1:AI:324:ALA:HB2	2.03	0.40
1:AJ:4:ARG:HD2	1:AJ:4:ARG:N	2.36	0.40
1:AJ:184:MET:HE1	1:AJ:345:ILE:CD1	2.51	0.40
1:AJ:254:VAL:HG23	1:AJ:254:VAL:O	2.22	0.40
1:AJ:423:GLY:O	1:AJ:427:VAL:HG23	2.21	0.40
1:AK:300:SER:O	1:AK:301:LEU:HD23	2.21	0.40
1:AK:389:ILE:HG13	1:AK:415:GLY:C	2.47	0.40
1:AL:29:LEU:HD23	1:AL:29:LEU:HA	1.91	0.40
1:AL:91:THR:O	1:AL:95:LYS:HG3	2.21	0.40
1:AM:79:ASP:OD1	1:AM:442:ARG:NE	2.55	0.40
1:AM:184:MET:HE1	1:AM:345:ILE:CD1	2.52	0.40
1:AM:369:GLY:HA2	1:AM:374:GLN:HE22	1.85	0.40
1:AM:471:SER:OG	1:AU:7:THR:HG21	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:35:GLY:C	1:AN:476:VAL:HG12	2.47	0.40
1:AN:82:MET:HE1	1:AN:442:ARG:CA	2.52	0.40
1:AN:117:GLN:OE1	1:AN:117:GLN:O	2.39	0.40
1:AN:300:SER:C	1:AN:301:LEU:HD23	2.46	0.40
1:AO:41:ALA:CB	1:AQ:446:GLY:HA3	2.51	0.40
1:AO:502:ALA:O	1:AO:505:VAL:HG12	2.22	0.40
1:AP:406:GLN:O	1:AP:409:THR:HG23	2.22	0.40
1:AQ:41:ALA:CA	1:AQ:48:MET:HE1	2.52	0.40
1:AQ:42:ALA:HB2	1:AV:449:GLN:NE2	2.35	0.40
1:AQ:50:ILE:CG2	1:AQ:473:ILE:HG12	2.51	0.40
1:AQ:335:ALA:HA	2:AQ:606:P8E:O8	2.21	0.40
1:AQ:418:VAL:O	1:AQ:418:VAL:HG12	2.20	0.40
1:AR:79:ASP:OD1	1:AR:442:ARG:NE	2.55	0.40
1:AR:406:GLN:O	1:AR:409:THR:HG23	2.21	0.40
1:AS:50:ILE:HD11	1:AT:133:ASN:HD21	1.86	0.40
1:AT:406:GLN:O	1:AT:409:THR:HG23	2.21	0.40
1:AU:74:MET:HG3	1:AU:132:PHE:CD1	2.56	0.40
1:AU:338:SER:H	2:AU:608:P8E:C1	2.34	0.40
1:AU:468:ALA:HA	1:AX:9:ILE:CD1	2.46	0.40
1:AV:254:VAL:HG23	1:AV:254:VAL:O	2.22	0.40
1:AV:422:LYS:HE3	1:AV:422:LYS:HA	2.03	0.40
1:AW:376:VAL:HG23	1:AW:378:GLU:HG3	2.02	0.40
1:AW:395:ALA:CB	1:AW:414:ILE:HG23	2.51	0.40
1:AX:187:SER:HB3	1:AX:335:ALA:HB3	2.00	0.40
1:AX:438:LEU:HD23	1:AX:438:LEU:HA	1.86	0.40
1:A1:395:ALA:CB	1:A1:414:ILE:HG23	2.51	0.40
1:A3:142:PHE:CZ	1:A3:145:LYS:HG3	2.57	0.40
1:A4:490:ILE:HG23	1:A6:510:LEU:HD12	2.01	0.40
1:A5:80:LYS:HG3	1:AD:461:VAL:CG1	2.51	0.40
1:A6:214:VAL:HG11	1:A6:227:LEU:CB	2.51	0.40
1:A7:74:MET:HE3	1:A7:137:MET:CE	2.51	0.40
1:A7:92:ILE:CG2	1:A7:116:ILE:HG12	2.32	0.40
1:A7:509:VAL:HG13	1:A7:510:LEU:N	2.36	0.40
1:A9:188:ALA:HB2	2:A9:606:P8E:O1B	2.21	0.40
1:A9:281:ASP:OD1	1:A9:283:ARG:HG2	2.20	0.40
1:A9:325:SER:O	1:A9:329:PHE:O	2.40	0.40
1:A9:335:ALA:HA	2:A9:606:P8E:O8	2.21	0.40
1:A9:406:GLN:O	1:A9:409:THR:HG23	2.22	0.40
1:A9:470:GLU:O	1:A9:473:ILE:HG23	2.21	0.40
1:A9:502:ALA:HA	1:A9:505:VAL:HG12	2.02	0.40
1:AA:90:ASP:OD2	1:AA:90:ASP:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:288:ILE:HG21	1:AA:299:ALA:HB2	2.02	0.40
1:AB:89:LEU:HA	1:AB:89:LEU:HD23	1.86	0.40
1:AB:449:GLN:NE2	1:AH:42:ALA:HB2	2.33	0.40
1:AC:62:GLY:HA2	1:AC:65:ILE:HD12	2.04	0.40
1:AD:198:LEU:HD22	1:AD:227:LEU:HD11	2.03	0.40
1:AD:313:ASP:OD1	1:AD:315:ARG:HG2	2.22	0.40
1:AD:386:VAL:HG22	1:AD:427:VAL:HG22	2.02	0.40
1:AE:298:GLU:HG2	1:AE:310:HIS:HB3	2.04	0.40
1:AE:418:VAL:HG12	1:AE:418:VAL:O	2.22	0.40
1:AE:513:LEU:O	1:AE:514:GLN:HB3	2.22	0.40
1:AF:24:ASP:HB3	1:AF:488:TYR:CZ	2.55	0.40
1:AF:283:ARG:HG3	1:AF:284:LEU:N	2.36	0.40
1:AF:352:ARG:HD2	1:AF:356:ARG:O	2.21	0.40
1:AF:421:LEU:O	1:AF:424:ALA:HB3	2.21	0.40
1:AG:471:SER:HB2	1:AJ:7:THR:OG1	2.21	0.40
1:AH:175:GLU:HA	1:AH:377:ALA:O	2.22	0.40
1:AH:328:VAL:O	1:AH:329:PHE:C	2.65	0.40
1:AI:284:LEU:O	1:AI:284:LEU:HD12	2.21	0.40
1:AJ:201:LYS:HB3	1:AJ:201:LYS:HE2	1.75	0.40
1:AK:79:ASP:OD1	1:AK:442:ARG:NE	2.54	0.40
1:AK:91:THR:O	1:AK:95:LYS:HG3	2.22	0.40
1:AK:491:LEU:HD23	1:AK:491:LEU:HA	1.89	0.40
1:AL:6:ASN:HB3	1:AT:475:ASP:OD1	2.22	0.40
1:AL:116:ILE:HD12	1:AL:116:ILE:H	1.86	0.40
1:AL:448:VAL:O	1:AL:452:LEU:HG	2.21	0.40
1:AM:110:ARG:HE	1:AM:110:ARG:HB2	1.77	0.40
1:AM:328:VAL:O	1:AM:329:PHE:C	2.64	0.40
1:AO:89:LEU:HA	1:AO:89:LEU:HD23	1.84	0.40
1:AO:167:ASP:HA	1:AO:384:ARG:CB	2.48	0.40
1:AO:259:VAL:O	1:AO:271:THR:HG23	2.20	0.40
1:AP:140:GLY:HA3	1:AP:163:SER:HB2	2.03	0.40
1:AP:201:LYS:HE2	1:AP:201:LYS:HB3	1.74	0.40
1:AQ:302:ASP:CB	1:AQ:308:ASN:HD21	2.34	0.40
1:AR:91:THR:O	1:AR:95:LYS:HG3	2.22	0.40
1:AR:177:SER:OG	1:AR:347:ARG:HA	2.21	0.40
1:AS:65:ILE:HG13	1:AS:459:ILE:HD11	2.03	0.40
1:AT:149:ILE:HD13	1:AT:157:VAL:HG12	2.04	0.40
1:AU:56:SER:O	1:AU:60:ASN:OD1	2.40	0.40
1:AV:88:ILE:C	1:AV:92:ILE:HD12	2.44	0.40
1:AW:184:MET:O	1:AW:184:MET:HE3	2.22	0.40
1:AX:189:ALA:HA	1:AX:192:ASN:ND2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:214:VAL:CG1	1:AX:227:LEU:HD13	2.51	0.40
1:A1:97:VAL:HG21	1:AI:60:ASN:HD22	1.87	0.40
1:A1:138:LEU:HB3	1:A1:164:THR:OG1	2.22	0.40
1:A1:507:GLN:O	1:A1:508:ASN:C	2.65	0.40
1:A2:218:THR:HG21	1:A2:318:SER:HB3	2.04	0.40
1:A2:463:GLN:HA	1:A2:466:VAL:CG2	2.51	0.40
1:A2:470:GLU:O	1:A2:473:ILE:HG23	2.22	0.40
1:A2:471:SER:O	1:A2:475:ASP:HB2	2.21	0.40
1:A2:475:ASP:OD1	1:AR:6:ASN:CB	2.70	0.40
1:A3:9:ILE:CD1	1:AS:468:ALA:HA	2.50	0.40
1:A3:16:ALA:O	1:A3:19:VAL:HG12	2.21	0.40
1:A3:418:VAL:HG12	1:A3:418:VAL:O	2.21	0.40
1:A4:108:SER:O	1:A4:112:LEU:CD1	2.69	0.40
1:A4:471:SER:CB	1:AT:7:THR:HG1	2.35	0.40
1:A5:82:MET:HG3	1:A5:138:LEU:CD2	2.50	0.40
1:A5:155:THR:CG2	1:AK:129:THR:HG21	2.50	0.40
1:A5:259:VAL:HA	1:A5:324:ALA:HB1	2.01	0.40
1:A5:264:ILE:HD11	1:A5:295:THR:HG21	2.04	0.40
1:A5:507:GLN:HB2	1:AI:490:ILE:HD11	2.03	0.40
1:A6:173:ARG:HD2	1:A6:357:ASP:HA	2.03	0.40
1:A6:271:THR:HG22	1:A6:273:ASN:OD1	2.22	0.40
1:A7:174:MET:CE	1:A7:398:ALA:HB2	2.45	0.40
1:A8:144:ASN:ND2	1:AN:247:MET:HE1	2.36	0.40
1:A9:175:GLU:HA	1:A9:377:ALA:O	2.21	0.40
1:A9:278:ASN:OD1	1:AH:212:GLU:HG3	2.22	0.40
1:AA:184:MET:O	1:AA:184:MET:HE3	2.21	0.40
1:AA:438:LEU:HA	1:AA:438:LEU:HD23	1.88	0.40
1:AB:227:LEU:O	1:AB:230:ILE:HG12	2.22	0.40
1:AC:84:GLU:HG2	1:AX:458:ASN:HB2	2.03	0.40
1:AC:418:VAL:O	1:AC:418:VAL:HG12	2.21	0.40
1:AC:509:VAL:HG22	1:AC:510:LEU:HD23	2.04	0.40
1:AE:294:ARG:HA	1:AE:294:ARG:HD2	1.84	0.40
1:AE:489:ASN:O	1:AE:493:GLN:HG2	2.22	0.40
1:AG:261:GLU:OE2	1:AG:322:ALA:HB2	2.21	0.40
1:AH:29:LEU:HD13	1:AI:502:ALA:HB2	2.03	0.40
1:AH:211:ILE:HD13	1:AH:211:ILE:HA	1.90	0.40
1:AI:8:ASN:CA	1:AI:506:GLN:HE22	2.34	0.40
1:AI:29:LEU:HD23	1:AI:29:LEU:HA	1.84	0.40
1:AI:313:ASP:OD1	1:AI:315:ARG:HG2	2.22	0.40
1:AJ:198:LEU:HD22	1:AJ:227:LEU:HD11	2.03	0.40
1:AJ:300:SER:O	1:AJ:301:LEU:HD23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:61:LEU:HD23	1:AK:61:LEU:HA	1.78	0.40
1:AK:174:MET:HE3	1:AK:398:ALA:CA	2.49	0.40
1:AK:201:LYS:O	1:AK:359:ILE:HD11	2.21	0.40
1:AK:319:VAL:CG1	1:AK:342:HIS:HD2	2.34	0.40
1:AL:38:ILE:O	1:AL:38:ILE:HG22	2.21	0.40
1:AL:300:SER:O	1:AL:301:LEU:HD23	2.22	0.40
1:AL:511:ARG:HH12	1:AL:512:LEU:CD1	2.23	0.40
1:AO:6:ASN:OD1	1:AR:491:LEU:HD11	2.21	0.40
1:AO:258:THR:CG2	1:AO:274:ASP:H	2.34	0.40
1:AO:313:ASP:OD1	1:AO:315:ARG:HG2	2.22	0.40
1:AO:422:LYS:C	1:AO:426:ILE:HD12	2.44	0.40
1:AP:91:THR:O	1:AP:95:LYS:HG3	2.22	0.40
1:AQ:4:ARG:HG2	1:AV:475:ASP:HB2	2.02	0.40
1:AQ:80:LYS:HG3	1:AR:461:VAL:CG1	2.51	0.40
1:AQ:89:LEU:CA	1:AQ:92:ILE:HD12	2.51	0.40
1:AQ:227:LEU:O	1:AQ:230:ILE:HG12	2.21	0.40
1:AR:65:ILE:HG13	1:AR:459:ILE:CD1	2.52	0.40
1:AR:201:LYS:O	1:AR:359:ILE:HD11	2.21	0.40
1:AS:61:LEU:HD23	1:AS:61:LEU:HA	1.87	0.40
1:AS:251:GLY:H	1:AS:333:ASN:H	1.68	0.40
1:AT:371:HIS:CD2	1:AT:373:ALA:HB3	2.57	0.40
1:AU:100:ALA:HB2	1:AU:424:ALA:HB1	2.03	0.40
1:AU:386:VAL:HG23	1:AU:430:MET:HE1	2.04	0.40
1:AV:9:ILE:H	1:AV:9:ILE:HG13	1.62	0.40
1:AV:82:MET:HE2	1:AV:82:MET:HB3	1.97	0.40
1:AV:300:SER:C	1:AV:301:LEU:HD23	2.46	0.40
1:AV:458:ASN:OD1	1:AV:458:ASN:C	2.64	0.40
1:AW:65:ILE:HG12	1:AW:459:ILE:HD11	2.03	0.40
1:AW:261:GLU:OE2	1:AW:322:ALA:HB2	2.22	0.40
1:AX:71:ALA:HB3	1:AX:452:LEU:HD13	2.04	0.40
1:AX:177:SER:OG	1:AX:347:ARG:HA	2.21	0.40
1:AX:353:THR:HG23	1:AX:433:SER:CB	2.40	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A1	511/513 (100%)	476 (93%)	35 (7%)	0	100	100
1	A2	511/513 (100%)	478 (94%)	33 (6%)	0	100	100
1	A3	511/513 (100%)	478 (94%)	33 (6%)	0	100	100
1	A4	511/513 (100%)	478 (94%)	33 (6%)	0	100	100
1	A5	511/513 (100%)	478 (94%)	32 (6%)	1 (0%)	44	74
1	A6	511/513 (100%)	479 (94%)	32 (6%)	0	100	100
1	A7	511/513 (100%)	480 (94%)	30 (6%)	1 (0%)	44	74
1	A8	511/513 (100%)	482 (94%)	28 (6%)	1 (0%)	44	74
1	A9	511/513 (100%)	476 (93%)	35 (7%)	0	100	100
1	AA	511/513 (100%)	477 (93%)	34 (7%)	0	100	100
1	AB	511/513 (100%)	483 (94%)	28 (6%)	0	100	100
1	AC	511/513 (100%)	480 (94%)	30 (6%)	1 (0%)	44	74
1	AD	511/513 (100%)	482 (94%)	28 (6%)	1 (0%)	44	74
1	AE	511/513 (100%)	479 (94%)	32 (6%)	0	100	100
1	AF	511/513 (100%)	479 (94%)	32 (6%)	0	100	100
1	AG	511/513 (100%)	481 (94%)	29 (6%)	1 (0%)	44	74
1	AH	511/513 (100%)	477 (93%)	33 (6%)	1 (0%)	44	74
1	AI	511/513 (100%)	478 (94%)	32 (6%)	1 (0%)	44	74
1	AJ	511/513 (100%)	480 (94%)	30 (6%)	1 (0%)	44	74
1	AK	511/513 (100%)	476 (93%)	34 (7%)	1 (0%)	44	74
1	AL	511/513 (100%)	479 (94%)	31 (6%)	1 (0%)	44	74
1	AM	511/513 (100%)	479 (94%)	31 (6%)	1 (0%)	44	74
1	AN	511/513 (100%)	479 (94%)	31 (6%)	1 (0%)	44	74
1	AO	511/513 (100%)	479 (94%)	31 (6%)	1 (0%)	44	74
1	AP	511/513 (100%)	477 (93%)	33 (6%)	1 (0%)	44	74
1	AQ	511/513 (100%)	476 (93%)	35 (7%)	0	100	100
1	AR	511/513 (100%)	477 (93%)	34 (7%)	0	100	100
1	AS	511/513 (100%)	479 (94%)	31 (6%)	1 (0%)	44	74
1	AT	511/513 (100%)	478 (94%)	33 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	AU	511/513 (100%)	478 (94%)	32 (6%)	1 (0%)	44 74
1	AV	511/513 (100%)	477 (93%)	33 (6%)	1 (0%)	44 74
1	AW	511/513 (100%)	476 (93%)	35 (7%)	0	100 100
1	AX	511/513 (100%)	480 (94%)	30 (6%)	1 (0%)	44 74
All	All	16863/16929 (100%)	15791 (94%)	1053 (6%)	19 (0%)	50 79

All (19) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AG	329	PHE
1	AP	329	PHE
1	AV	329	PHE
1	AC	329	PHE
1	AD	329	PHE
1	AH	329	PHE
1	AJ	329	PHE
1	AL	329	PHE
1	AS	329	PHE
1	AU	329	PHE
1	A5	329	PHE
1	A7	329	PHE
1	A8	329	PHE
1	AI	329	PHE
1	AK	329	PHE
1	AM	329	PHE
1	AN	329	PHE
1	AO	329	PHE
1	AX	329	PHE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A1	404/404 (100%)	392 (97%)	12 (3%)	36 64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A2	404/404 (100%)	389 (96%)	15 (4%)	29	60
1	A3	404/404 (100%)	389 (96%)	15 (4%)	29	60
1	A4	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	A5	404/404 (100%)	392 (97%)	12 (3%)	36	64
1	A6	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	A7	404/404 (100%)	393 (97%)	11 (3%)	40	67
1	A8	404/404 (100%)	392 (97%)	12 (3%)	36	64
1	A9	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	AA	404/404 (100%)	391 (97%)	13 (3%)	34	63
1	AB	404/404 (100%)	396 (98%)	8 (2%)	50	73
1	AC	404/404 (100%)	393 (97%)	11 (3%)	40	67
1	AD	404/404 (100%)	389 (96%)	15 (4%)	29	60
1	AE	404/404 (100%)	390 (96%)	14 (4%)	31	61
1	AF	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	AG	404/404 (100%)	393 (97%)	11 (3%)	40	67
1	AH	404/404 (100%)	393 (97%)	11 (3%)	40	67
1	AI	404/404 (100%)	394 (98%)	10 (2%)	42	69
1	AJ	404/404 (100%)	394 (98%)	10 (2%)	42	69
1	AK	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	AL	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	AM	404/404 (100%)	395 (98%)	9 (2%)	47	71
1	AN	404/404 (100%)	392 (97%)	12 (3%)	36	64
1	AO	404/404 (100%)	397 (98%)	7 (2%)	56	77
1	AP	404/404 (100%)	396 (98%)	8 (2%)	50	73
1	AQ	404/404 (100%)	394 (98%)	10 (2%)	42	69
1	AR	404/404 (100%)	392 (97%)	12 (3%)	36	64
1	AS	404/404 (100%)	397 (98%)	7 (2%)	56	77
1	AT	404/404 (100%)	396 (98%)	8 (2%)	50	73
1	AU	404/404 (100%)	396 (98%)	8 (2%)	50	73
1	AV	404/404 (100%)	394 (98%)	10 (2%)	42	69
1	AW	404/404 (100%)	392 (97%)	12 (3%)	36	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	AX	404/404 (100%)	389 (96%)	15 (4%)	29 60
All	All	13332/13332 (100%)	12980 (97%)	352 (3%)	42 68

All (352) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	88	ILE
1	A1	212	GLU
1	A1	215	ARG
1	A1	230	ILE
1	A1	319	VAL
1	A1	328	VAL
1	A1	359	ILE
1	A1	376	VAL
1	A1	456	ILE
1	A1	473	ILE
1	A1	493	GLN
1	A1	508	ASN
1	A2	38	ILE
1	A2	50	ILE
1	A2	141	SER
1	A2	153	SER
1	A2	174	MET
1	A2	211	ILE
1	A2	212	GLU
1	A2	229	GLU
1	A2	286	ASN
1	A2	319	VAL
1	A2	328	VAL
1	A2	351	THR
1	A2	356	ARG
1	A2	493	GLN
1	A2	508	ASN
1	A3	9	ILE
1	A3	33	SER
1	A3	34	SER
1	A3	66	ARG
1	A3	82	MET
1	A3	88	ILE
1	A3	126	ILE
1	A3	174	MET
1	A3	212	GLU

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Mol	Chain	Res	Type
1	A3	328	VAL
1	A3	367	HIS
1	A3	396	SER
1	A3	496	SER
1	A3	508	ASN
1	A3	512	LEU
1	A4	141	SER
1	A4	153	SER
1	A4	212	GLU
1	A4	328	VAL
1	A4	351	THR
1	A4	356	ARG
1	A4	359	ILE
1	A4	406	GLN
1	A4	508	ASN
1	A5	6	ASN
1	A5	34	SER
1	A5	39	ASN
1	A5	88	ILE
1	A5	157	VAL
1	A5	328	VAL
1	A5	351	THR
1	A5	359	ILE
1	A5	367	HIS
1	A5	409	THR
1	A5	456	ILE
1	A5	508	ASN
1	A6	33	SER
1	A6	112	LEU
1	A6	212	GLU
1	A6	233	ARG
1	A6	262	LEU
1	A6	268	GLU
1	A6	351	THR
1	A6	359	ILE
1	A6	508	ASN
1	A7	34	SER
1	A7	39	ASN
1	A7	66	ARG
1	A7	126	ILE
1	A7	157	VAL
1	A7	328	VAL

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Mol	Chain	Res	Type
1	A7	359	ILE
1	A7	367	HIS
1	A7	396	SER
1	A7	480	GLU
1	A7	508	ASN
1	A8	34	SER
1	A8	84	GLU
1	A8	88	ILE
1	A8	174	MET
1	A8	212	GLU
1	A8	353	THR
1	A8	367	HIS
1	A8	409	THR
1	A8	456	ILE
1	A8	508	ASN
1	A8	512	LEU
1	A8	513	LEU
1	A9	39	ASN
1	A9	112	LEU
1	A9	212	GLU
1	A9	230	ILE
1	A9	262	LEU
1	A9	268	GLU
1	A9	286	ASN
1	A9	456	ILE
1	A9	508	ASN
1	AA	38	ILE
1	AA	88	ILE
1	AA	112	LEU
1	AA	141	SER
1	AA	262	LEU
1	AA	268	GLU
1	AA	303	ILE
1	AA	356	ARG
1	AA	359	ILE
1	AA	367	HIS
1	AA	452	LEU
1	AA	493	GLN
1	AA	508	ASN
1	AB	88	ILE
1	AB	356	ARG
1	AB	365	PHE

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Mol	Chain	Res	Type
1	AB	367	HIS
1	AB	452	LEU
1	AB	456	ILE
1	AB	475	ASP
1	AB	508	ASN
1	AC	82	MET
1	AC	88	ILE
1	AC	174	MET
1	AC	233	ARG
1	AC	328	VAL
1	AC	351	THR
1	AC	359	ILE
1	AC	367	HIS
1	AC	456	ILE
1	AC	508	ASN
1	AC	513	LEU
1	AD	33	SER
1	AD	88	ILE
1	AD	157	VAL
1	AD	212	GLU
1	AD	214	VAL
1	AD	233	ARG
1	AD	264	ILE
1	AD	292	LYS
1	AD	359	ILE
1	AD	367	HIS
1	AD	396	SER
1	AD	471	SER
1	AD	480	GLU
1	AD	508	ASN
1	AD	512	LEU
1	AE	88	ILE
1	AE	112	LEU
1	AE	126	ILE
1	AE	213	THR
1	AE	233	ARG
1	AE	269	ILE
1	AE	307	ILE
1	AE	328	VAL
1	AE	359	ILE
1	AE	367	HIS
1	AE	471	SER

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Mol	Chain	Res	Type
1	AE	480	GLU
1	AE	508	ASN
1	AE	512	LEU
1	AF	84	GLU
1	AF	139	SER
1	AF	212	GLU
1	AF	268	GLU
1	AF	356	ARG
1	AF	359	ILE
1	AF	409	THR
1	AF	471	SER
1	AF	508	ASN
1	AG	39	ASN
1	AG	48	MET
1	AG	138	LEU
1	AG	153	SER
1	AG	212	GLU
1	AG	262	LEU
1	AG	268	GLU
1	AG	367	HIS
1	AG	471	SER
1	AG	508	ASN
1	AG	510	LEU
1	AH	39	ASN
1	AH	112	LEU
1	AH	212	GLU
1	AH	233	ARG
1	AH	268	GLU
1	AH	273	ASN
1	AH	319	VAL
1	AH	328	VAL
1	AH	376	VAL
1	AH	471	SER
1	AH	508	ASN
1	AI	6	ASN
1	AI	174	MET
1	AI	212	GLU
1	AI	319	VAL
1	AI	328	VAL
1	AI	359	ILE
1	AI	409	THR
1	AI	471	SER

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Mol	Chain	Res	Type
1	AI	508	ASN
1	AI	513	LEU
1	AJ	34	SER
1	AJ	88	ILE
1	AJ	157	VAL
1	AJ	174	MET
1	AJ	198	LEU
1	AJ	259	VAL
1	AJ	319	VAL
1	AJ	367	HIS
1	AJ	471	SER
1	AJ	508	ASN
1	AK	39	ASN
1	AK	141	SER
1	AK	262	LEU
1	AK	268	GLU
1	AK	328	VAL
1	AK	359	ILE
1	AK	409	THR
1	AK	456	ILE
1	AK	508	ASN
1	AL	38	ILE
1	AL	39	ASN
1	AL	88	ILE
1	AL	157	VAL
1	AL	174	MET
1	AL	303	ILE
1	AL	367	HIS
1	AL	409	THR
1	AL	508	ASN
1	AM	39	ASN
1	AM	139	SER
1	AM	174	MET
1	AM	212	GLU
1	AM	268	GLU
1	AM	359	ILE
1	AM	409	THR
1	AM	507	GLN
1	AM	508	ASN
1	AN	6	ASN
1	AN	38	ILE
1	AN	84	GLU

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Mol	Chain	Res	Type
1	AN	122	GLU
1	AN	174	MET
1	AN	229	GLU
1	AN	262	LEU
1	AN	268	GLU
1	AN	319	VAL
1	AN	456	ILE
1	AN	507	GLN
1	AN	508	ASN
1	AO	153	SER
1	AO	157	VAL
1	AO	174	MET
1	AO	328	VAL
1	AO	367	HIS
1	AO	456	ILE
1	AO	508	ASN
1	AP	6	ASN
1	AP	88	ILE
1	AP	212	GLU
1	AP	268	GLU
1	AP	319	VAL
1	AP	367	HIS
1	AP	508	ASN
1	AP	512	LEU
1	AQ	6	ASN
1	AQ	39	ASN
1	AQ	48	MET
1	AQ	212	GLU
1	AQ	229	GLU
1	AQ	268	GLU
1	AQ	328	VAL
1	AQ	409	THR
1	AQ	507	GLN
1	AQ	508	ASN
1	AR	5	ILE
1	AR	6	ASN
1	AR	48	MET
1	AR	182	GLU
1	AR	212	GLU
1	AR	328	VAL
1	AR	367	HIS
1	AR	426	ILE

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Mol	Chain	Res	Type
1	AR	456	ILE
1	AR	471	SER
1	AR	480	GLU
1	AR	508	ASN
1	AS	174	MET
1	AS	212	GLU
1	AS	247	MET
1	AS	273	ASN
1	AS	367	HIS
1	AS	456	ILE
1	AS	508	ASN
1	AT	6	ASN
1	AT	39	ASN
1	AT	174	MET
1	AT	212	GLU
1	AT	268	GLU
1	AT	328	VAL
1	AT	456	ILE
1	AT	508	ASN
1	AU	6	ASN
1	AU	319	VAL
1	AU	367	HIS
1	AU	409	THR
1	AU	456	ILE
1	AU	471	SER
1	AU	508	ASN
1	AU	513	LEU
1	AV	29	LEU
1	AV	88	ILE
1	AV	174	MET
1	AV	212	GLU
1	AV	224	ILE
1	AV	286	ASN
1	AV	328	VAL
1	AV	351	THR
1	AV	359	ILE
1	AV	493	GLN
1	AW	39	ASN
1	AW	48	MET
1	AW	88	ILE
1	AW	112	LEU
1	AW	262	LEU

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Mol	Chain	Res	Type
1	AW	328	VAL
1	AW	356	ARG
1	AW	359	ILE
1	AW	376	VAL
1	AW	450	MET
1	AW	452	LEU
1	AW	456	ILE
1	AX	4	ARG
1	AX	33	SER
1	AX	34	SER
1	AX	88	ILE
1	AX	144	ASN
1	AX	184	MET
1	AX	233	ARG
1	AX	247	MET
1	AX	292	LYS
1	AX	359	ILE
1	AX	396	SER
1	AX	456	ILE
1	AX	480	GLU
1	AX	496	SER
1	AX	508	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (387) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	8	ASN
1	A1	22	ASN
1	A1	98	GLN
1	A1	117	GLN
1	A1	192	ASN
1	A1	374	GLN
1	A1	401	ASN
1	A1	410	ASN
1	A1	458	ASN
1	A1	493	GLN
1	A1	508	ASN
1	A2	8	ASN
1	A2	22	ASN
1	A2	192	ASN
1	A2	374	GLN
1	A2	401	ASN

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Mol	Chain	Res	Type
1	A2	410	ASN
1	A2	458	ASN
1	A2	493	GLN
1	A3	8	ASN
1	A3	22	ASN
1	A3	101	GLN
1	A3	117	GLN
1	A3	192	ASN
1	A3	278	ASN
1	A3	374	GLN
1	A3	382	ASN
1	A3	401	ASN
1	A3	410	ASN
1	A3	458	ASN
1	A3	508	ASN
1	A4	8	ASN
1	A4	22	ASN
1	A4	117	GLN
1	A4	133	ASN
1	A4	192	ASN
1	A4	286	ASN
1	A4	374	GLN
1	A4	401	ASN
1	A4	493	GLN
1	A5	8	ASN
1	A5	39	ASN
1	A5	60	ASN
1	A5	133	ASN
1	A5	135	GLN
1	A5	171	HIS
1	A5	192	ASN
1	A5	308	ASN
1	A5	341	GLN
1	A5	342	HIS
1	A5	401	ASN
1	A5	410	ASN
1	A5	458	ASN
1	A5	484	ASN
1	A6	8	ASN
1	A6	133	ASN
1	A6	192	ASN
1	A6	308	ASN

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Mol	Chain	Res	Type
1	A6	341	GLN
1	A6	374	GLN
1	A6	401	ASN
1	A6	410	ASN
1	A6	458	ASN
1	A6	501	GLN
1	A7	8	ASN
1	A7	22	ASN
1	A7	60	ASN
1	A7	63	GLN
1	A7	101	GLN
1	A7	117	GLN
1	A7	135	GLN
1	A7	136	GLN
1	A7	192	ASN
1	A7	278	ASN
1	A7	341	GLN
1	A7	342	HIS
1	A7	374	GLN
1	A7	401	ASN
1	A7	410	ASN
1	A7	458	ASN
1	A7	508	ASN
1	A7	514	GLN
1	A8	8	ASN
1	A8	39	ASN
1	A8	63	GLN
1	A8	101	GLN
1	A8	133	ASN
1	A8	135	GLN
1	A8	192	ASN
1	A8	278	ASN
1	A8	308	ASN
1	A8	342	HIS
1	A8	374	GLN
1	A8	401	ASN
1	A8	410	ASN
1	A8	493	GLN
1	A9	8	ASN
1	A9	22	ASN
1	A9	39	ASN
1	A9	117	GLN

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Mol	Chain	Res	Type
1	A9	136	GLN
1	A9	192	ASN
1	A9	374	GLN
1	A9	401	ASN
1	A9	410	ASN
1	A9	458	ASN
1	AA	8	ASN
1	AA	22	ASN
1	AA	133	ASN
1	AA	136	GLN
1	AA	192	ASN
1	AA	308	ASN
1	AA	374	GLN
1	AA	401	ASN
1	AB	8	ASN
1	AB	101	GLN
1	AB	113	GLN
1	AB	136	GLN
1	AB	192	ASN
1	AB	374	GLN
1	AB	401	ASN
1	AB	410	ASN
1	AB	493	GLN
1	AC	6	ASN
1	AC	8	ASN
1	AC	60	ASN
1	AC	101	GLN
1	AC	135	GLN
1	AC	154	ASN
1	AC	192	ASN
1	AC	278	ASN
1	AC	308	ASN
1	AC	341	GLN
1	AC	342	HIS
1	AC	374	GLN
1	AC	401	ASN
1	AC	410	ASN
1	AC	458	ASN
1	AC	514	GLN
1	AD	8	ASN
1	AD	22	ASN
1	AD	101	GLN

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Mol	Chain	Res	Type
1	AD	192	ASN
1	AD	278	ASN
1	AD	374	GLN
1	AD	401	ASN
1	AD	410	ASN
1	AE	8	ASN
1	AE	15	HIS
1	AE	22	ASN
1	AE	60	ASN
1	AE	63	GLN
1	AE	117	GLN
1	AE	171	HIS
1	AE	192	ASN
1	AE	278	ASN
1	AE	342	HIS
1	AE	374	GLN
1	AE	401	ASN
1	AE	410	ASN
1	AE	458	ASN
1	AF	8	ASN
1	AF	22	ASN
1	AF	117	GLN
1	AF	133	ASN
1	AF	192	ASN
1	AF	286	ASN
1	AF	341	GLN
1	AF	374	GLN
1	AF	401	ASN
1	AF	458	ASN
1	AF	484	ASN
1	AF	508	ASN
1	AG	60	ASN
1	AG	63	GLN
1	AG	286	ASN
1	AG	310	HIS
1	AG	342	HIS
1	AG	374	GLN
1	AG	401	ASN
1	AG	410	ASN
1	AG	458	ASN
1	AG	508	ASN
1	AH	8	ASN

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Mol	Chain	Res	Type
1	AH	22	ASN
1	AH	60	ASN
1	AH	63	GLN
1	AH	192	ASN
1	AH	286	ASN
1	AH	308	ASN
1	AH	342	HIS
1	AH	374	GLN
1	AH	382	ASN
1	AH	401	ASN
1	AH	410	ASN
1	AH	458	ASN
1	AI	6	ASN
1	AI	8	ASN
1	AI	60	ASN
1	AI	63	GLN
1	AI	69	ASN
1	AI	133	ASN
1	AI	278	ASN
1	AI	308	ASN
1	AI	341	GLN
1	AI	342	HIS
1	AI	374	GLN
1	AI	401	ASN
1	AI	410	ASN
1	AI	508	ASN
1	AJ	8	ASN
1	AJ	60	ASN
1	AJ	63	GLN
1	AJ	101	GLN
1	AJ	133	ASN
1	AJ	135	GLN
1	AJ	192	ASN
1	AJ	278	ASN
1	AJ	286	ASN
1	AJ	308	ASN
1	AJ	342	HIS
1	AJ	374	GLN
1	AJ	401	ASN
1	AJ	410	ASN
1	AJ	437	GLN
1	AJ	458	ASN

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Mol	Chain	Res	Type
1	AK	8	ASN
1	AK	60	ASN
1	AK	63	GLN
1	AK	117	GLN
1	AK	133	ASN
1	AK	286	ASN
1	AK	308	ASN
1	AK	310	HIS
1	AK	342	HIS
1	AK	374	GLN
1	AK	401	ASN
1	AK	458	ASN
1	AL	6	ASN
1	AL	8	ASN
1	AL	39	ASN
1	AL	60	ASN
1	AL	101	GLN
1	AL	133	ASN
1	AL	135	GLN
1	AL	192	ASN
1	AL	342	HIS
1	AL	374	GLN
1	AL	401	ASN
1	AL	410	ASN
1	AL	458	ASN
1	AL	508	ASN
1	AM	8	ASN
1	AM	133	ASN
1	AM	136	GLN
1	AM	192	ASN
1	AM	308	ASN
1	AM	341	GLN
1	AM	374	GLN
1	AM	401	ASN
1	AM	410	ASN
1	AM	458	ASN
1	AN	8	ASN
1	AN	60	ASN
1	AN	63	GLN
1	AN	69	ASN
1	AN	98	GLN
1	AN	133	ASN

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Mol	Chain	Res	Type
1	AN	135	GLN
1	AN	286	ASN
1	AN	308	ASN
1	AN	342	HIS
1	AN	374	GLN
1	AN	401	ASN
1	AN	410	ASN
1	AN	458	ASN
1	AN	506	GLN
1	AO	6	ASN
1	AO	8	ASN
1	AO	60	ASN
1	AO	101	GLN
1	AO	135	GLN
1	AO	278	ASN
1	AO	308	ASN
1	AO	342	HIS
1	AO	374	GLN
1	AO	401	ASN
1	AO	410	ASN
1	AP	8	ASN
1	AP	60	ASN
1	AP	63	GLN
1	AP	69	ASN
1	AP	117	GLN
1	AP	133	ASN
1	AP	192	ASN
1	AP	278	ASN
1	AP	308	ASN
1	AP	342	HIS
1	AP	374	GLN
1	AP	401	ASN
1	AP	410	ASN
1	AP	458	ASN
1	AP	508	ASN
1	AQ	6	ASN
1	AQ	22	ASN
1	AQ	60	ASN
1	AQ	135	GLN
1	AQ	192	ASN
1	AQ	286	ASN
1	AQ	308	ASN

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Mol	Chain	Res	Type
1	AQ	374	GLN
1	AQ	401	ASN
1	AQ	410	ASN
1	AQ	458	ASN
1	AR	6	ASN
1	AR	21	ASN
1	AR	60	ASN
1	AR	117	GLN
1	AR	278	ASN
1	AR	308	ASN
1	AR	341	GLN
1	AR	342	HIS
1	AR	374	GLN
1	AR	401	ASN
1	AR	410	ASN
1	AR	458	ASN
1	AR	508	ASN
1	AS	8	ASN
1	AS	308	ASN
1	AS	341	GLN
1	AS	342	HIS
1	AS	374	GLN
1	AS	401	ASN
1	AS	458	ASN
1	AS	514	GLN
1	AT	6	ASN
1	AT	8	ASN
1	AT	22	ASN
1	AT	133	ASN
1	AT	286	ASN
1	AT	374	GLN
1	AT	401	ASN
1	AT	410	ASN
1	AT	458	ASN
1	AU	8	ASN
1	AU	60	ASN
1	AU	63	GLN
1	AU	69	ASN
1	AU	117	GLN
1	AU	133	ASN
1	AU	135	GLN
1	AU	278	ASN

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Mol	Chain	Res	Type
1	AU	308	ASN
1	AU	342	HIS
1	AU	374	GLN
1	AU	401	ASN
1	AU	410	ASN
1	AU	458	ASN
1	AU	508	ASN
1	AV	8	ASN
1	AV	22	ASN
1	AV	192	ASN
1	AV	286	ASN
1	AV	401	ASN
1	AV	406	GLN
1	AV	410	ASN
1	AW	8	ASN
1	AW	22	ASN
1	AW	117	GLN
1	AW	192	ASN
1	AW	286	ASN
1	AW	374	GLN
1	AW	401	ASN
1	AW	410	ASN
1	AW	465	ASN
1	AW	493	GLN
1	AX	8	ASN
1	AX	22	ASN
1	AX	60	ASN
1	AX	101	GLN
1	AX	135	GLN
1	AX	192	ASN
1	AX	278	ASN
1	AX	341	GLN
1	AX	374	GLN
1	AX	401	ASN
1	AX	410	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

297 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	P8E	A3	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AJ	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	A7	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	A8	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.04	2 (11%)
2	P8E	AP	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AH	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	2 (11%)
2	P8E	AO	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AR	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	A4	607	-	15,16,17	1.07	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	A6	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.26	3 (17%)
2	P8E	A7	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AS	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AT	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	2 (11%)
2	P8E	AK	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	A8	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	AG	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.01	2 (11%)
2	P8E	AE	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.09	3 (17%)
2	P8E	AI	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	AB	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AP	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	2 (11%)
2	P8E	AU	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AW	607	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AQ	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AX	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A6	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AN	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AU	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	A8	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	A9	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	AP	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A8	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AR	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.28	3 (17%)
2	P8E	AT	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AR	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AT	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	A2	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.26	3 (17%)
2	P8E	A7	609	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AI	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AL	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AC	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	A1	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AW	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	2 (11%)
2	P8E	A4	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AU	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.30	3 (17%)
2	P8E	A1	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	AP	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AV	604	-	15,16,17	1.16	1 (6%)	17,23,26	2.21	3 (17%)
2	P8E	AI	606	-	15,16,17	1.10	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	AP	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.23	4 (23%)
2	P8E	AS	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AT	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.26	3 (17%)
2	P8E	A3	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AE	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.06	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	AA	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AL	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.23	4 (23%)
2	P8E	AL	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AW	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.00	3 (17%)
2	P8E	A4	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	2 (11%)
2	P8E	AE	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AJ	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.31	4 (23%)
2	P8E	A8	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AN	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.25	3 (17%)
2	P8E	A4	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.26	3 (17%)
2	P8E	AT	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	A5	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AI	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AW	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AN	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AB	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AP	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AA	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	2 (11%)
2	P8E	A8	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AT	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AW	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AQ	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AT	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AI	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AV	607	-	15,16,17	1.07	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	A1	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	A3	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	A4	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AC	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AD	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AN	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AL	607	-	15,16,17	1.04	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	AV	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.89	3 (17%)
2	P8E	AF	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.28	3 (17%)
2	P8E	AU	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	AC	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AG	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.27	3 (17%)
2	P8E	AQ	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.26	3 (17%)
2	P8E	AD	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AG	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.06	3 (17%)
2	P8E	AL	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AF	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	AH	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A6	607	-	15,16,17	1.06	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AL	609	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AQ	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	A9	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	AR	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.06	3 (17%)
2	P8E	A2	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.00	3 (17%)
2	P8E	AN	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AR	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AT	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A7	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	A9	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.26	3 (17%)
2	P8E	AI	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AI	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.27	3 (17%)
2	P8E	AN	608	-	15,16,17	1.09	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	AU	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	3 (17%)
2	P8E	AV	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AM	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AD	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.20	4 (23%)
2	P8E	AH	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	A5	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AD	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	A8	609	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AH	607	-	15,16,17	1.06	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AQ	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	2 (11%)
2	P8E	A1	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.20	4 (23%)
2	P8E	AK	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A6	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	A4	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	A9	607	-	15,16,17	1.06	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AN	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	A4	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	A7	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.31	4 (23%)
2	P8E	AE	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	A5	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AK	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.28	3 (17%)
2	P8E	AN	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.02	2 (11%)
2	P8E	A2	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	AM	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	A4	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	A6	609	-	15,16,17	1.09	1 (6%)	17,23,26	2.09	3 (17%)
2	P8E	AK	606	-	15,16,17	1.10	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AC	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	A5	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.02	2 (11%)
2	P8E	AA	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AR	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AP	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AS	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AU	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	A5	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.30	4 (23%)
2	P8E	A7	606	-	15,16,17	1.08	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	A9	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AU	606	-	15,16,17	1.11	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AH	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.92	3 (17%)
2	P8E	A1	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AP	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AH	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AQ	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.20	4 (23%)
2	P8E	AN	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AS	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AM	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.27	3 (17%)
2	P8E	AK	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.23	4 (23%)
2	P8E	AV	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	A9	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AJ	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AX	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	A9	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AE	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AF	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.20	4 (23%)
2	P8E	A2	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AE	601	-	15,16,17	1.07	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AR	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.23	4 (23%)
2	P8E	A5	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AR	606	-	15,16,17	1.10	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AF	609	-	15,16,17	1.09	1 (6%)	17,23,26	2.08	3 (17%)
2	P8E	A1	607	-	15,16,17	1.06	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AG	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AT	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AR	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AV	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.23	4 (23%)
2	P8E	A6	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AC	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.31	4 (23%)
2	P8E	AA	607	-	15,16,17	1.07	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AU	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AF	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AV	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AX	606	-	15,16,17	1.08	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AA	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AF	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	AG	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AJ	607	-	15,16,17	1.04	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AW	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.27	3 (17%)
2	P8E	A3	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AA	609	-	15,16,17	1.09	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AF	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AI	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AK	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	2 (11%)
2	P8E	AO	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	AV	605	-	15,16,17	1.10	1 (6%)	17,23,26	1.98	2 (11%)
2	P8E	AQ	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AJ	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	A7	601	-	15,16,17	1.07	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AO	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	A5	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AU	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A6	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AD	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AX	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	A5	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	A3	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.32	4 (23%)
2	P8E	A1	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.99	3 (17%)
2	P8E	A4	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AE	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.05	2 (11%)
2	P8E	AA	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	A2	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AO	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AB	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AC	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AD	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AF	607	-	15,16,17	1.06	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AM	609	-	15,16,17	1.09	1 (6%)	17,23,26	2.08	3 (17%)
2	P8E	AB	605	-	15,16,17	1.11	1 (6%)	17,23,26	1.98	2 (11%)
2	P8E	AG	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	A1	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	AK	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AP	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.29	3 (17%)
2	P8E	A2	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.20	4 (23%)
2	P8E	AG	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	A2	607	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AJ	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AO	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AQ	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.92	3 (17%)
2	P8E	AE	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.32	4 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	AJ	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AD	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.30	4 (23%)
2	P8E	AM	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	A9	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AA	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	A3	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.15	3 (17%)
2	P8E	AX	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.31	4 (23%)
2	P8E	AB	604	-	15,16,17	1.12	1 (6%)	17,23,26	2.25	3 (17%)
2	P8E	AI	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	A9	609	-	15,16,17	1.09	1 (6%)	17,23,26	2.09	3 (17%)
2	P8E	AC	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	A3	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AB	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.88	3 (17%)
2	P8E	AQ	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	A6	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AH	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.25	3 (17%)
2	P8E	A2	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	2 (11%)
2	P8E	AH	609	-	15,16,17	1.09	1 (6%)	17,23,26	2.10	3 (17%)
2	P8E	AM	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	A7	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	A8	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.02	3 (17%)
2	P8E	AK	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.00	3 (17%)
2	P8E	AF	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	3 (17%)
2	P8E	A2	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AG	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AL	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.30	4 (23%)
2	P8E	AB	607	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AD	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AS	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.95	3 (17%)
2	P8E	AX	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AC	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AX	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AH	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AB	602	-	15,16,17	1.06	1 (6%)	17,23,26	2.21	4 (23%)
2	P8E	AC	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	P8E	AG	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.22	4 (23%)
2	P8E	AM	602	-	15,16,17	1.07	1 (6%)	17,23,26	2.19	4 (23%)
2	P8E	AS	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.12	3 (17%)
2	P8E	AX	609	-	15,16,17	1.07	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AK	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	A3	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AA	604	-	15,16,17	1.12	1 (6%)	17,23,26	2.25	3 (17%)
2	P8E	AM	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.00	2 (11%)
2	P8E	A8	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.30	4 (23%)
2	P8E	AJ	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.91	3 (17%)
2	P8E	AW	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.06	3 (17%)
2	P8E	AX	605	-	15,16,17	1.10	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	AE	606	-	15,16,17	1.09	1 (6%)	17,23,26	1.90	3 (17%)
2	P8E	AW	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	AJ	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.06	2 (11%)
2	P8E	AO	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.02	2 (11%)
2	P8E	AV	603	-	15,16,17	1.07	1 (6%)	17,23,26	2.01	3 (17%)
2	P8E	AS	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.03	2 (11%)
2	P8E	AB	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.05	3 (17%)
2	P8E	AO	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.30	4 (23%)
2	P8E	AM	607	-	15,16,17	1.06	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AS	604	-	15,16,17	1.10	1 (6%)	17,23,26	2.28	3 (17%)
2	P8E	A7	607	-	15,16,17	1.05	1 (6%)	17,23,26	2.14	3 (17%)
2	P8E	AO	608	-	15,16,17	1.07	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	A3	601	-	15,16,17	1.07	1 (6%)	17,23,26	1.93	3 (17%)
2	P8E	AL	605	-	15,16,17	1.11	1 (6%)	17,23,26	2.03	2 (11%)
2	P8E	AS	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.03	3 (17%)
2	P8E	AW	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.11	3 (17%)
2	P8E	AO	601	-	15,16,17	1.06	1 (6%)	17,23,26	1.94	3 (17%)
2	P8E	A1	604	-	15,16,17	1.11	1 (6%)	17,23,26	2.25	3 (17%)
2	P8E	AD	609	-	15,16,17	1.08	1 (6%)	17,23,26	2.09	3 (17%)
2	P8E	A5	607	-	15,16,17	1.04	1 (6%)	17,23,26	2.13	3 (17%)
2	P8E	AL	608	-	15,16,17	1.08	1 (6%)	17,23,26	2.04	3 (17%)
2	P8E	A6	603	-	15,16,17	1.08	1 (6%)	17,23,26	2.01	3 (17%)

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
2	P8E	A3	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AJ	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A7	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A8	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AP	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AH	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AO	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AR	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A6	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	A4	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A7	608	-	-	0/11/28/32	0/1/1/1
2	P8E	AS	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AT	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AK	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A8	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AG	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AE	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AI	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AB	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AP	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AU	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AW	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AQ	603	-	-	3/11/28/32	0/1/1/1
2	P8E	AX	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A6	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AN	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AU	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A8	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AR	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A9	603	-	-	3/11/28/32	0/1/1/1
2	P8E	A8	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AP	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AT	607	-	-	6/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AR	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AT	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A2	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A7	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AI	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AL	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AC	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A1	608	-	-	2/11/28/32	0/1/1/1
2	P8E	AW	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AU	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	A4	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AV	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	A1	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AP	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AT	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AI	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AP	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AS	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A3	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AE	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AA	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AL	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AL	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AW	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A4	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AE	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AJ	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AN	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A8	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A4	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AT	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A5	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AI	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AW	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AN	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AB	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AP	608	-	-	1/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AA	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A8	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AT	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AW	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AQ	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AT	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AI	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AV	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A1	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A3	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A4	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AC	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AD	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AN	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AL	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AV	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AF	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	AU	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AC	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AG	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AQ	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AD	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AG	608	-	-	0/11/28/32	0/1/1/1
2	P8E	AL	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AF	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AH	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A6	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AL	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AQ	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A9	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AR	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A2	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AN	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AR	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AT	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AI	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A9	604	-	1/1/7/7	8/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	A7	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AI	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AN	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AU	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AV	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AM	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AD	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AH	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A5	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AD	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A8	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AH	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AQ	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A1	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AK	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A6	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A4	603	-	-	3/11/28/32	0/1/1/1
2	P8E	A9	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AN	603	-	-	3/11/28/32	0/1/1/1
2	P8E	A7	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	A4	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AE	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AK	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A5	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AN	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A2	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AM	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A4	609	-	-	3/11/28/32	0/1/1/1
2	P8E	A6	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AK	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AC	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A5	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AA	603	-	-	3/11/28/32	0/1/1/1
2	P8E	AR	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AP	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AS	602	-	-	0/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AU	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A5	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A7	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A9	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AU	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AH	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A1	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AP	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AH	608	-	-	0/11/28/32	0/1/1/1
2	P8E	AQ	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AN	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AS	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AM	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	AK	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AV	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A9	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AJ	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AX	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A9	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AE	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AF	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A2	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AE	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AR	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A5	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AR	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AF	609	-	-	3/11/28/32	0/1/1/1
2	P8E	A1	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AG	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AT	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AR	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AV	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A6	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AC	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AA	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AU	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AF	608	-	-	1/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AV	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AX	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AA	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AF	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AG	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AJ	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AW	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A3	608	-	-	0/11/28/32	0/1/1/1
2	P8E	AA	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AF	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AI	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AK	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AO	603	-	-	3/11/28/32	0/1/1/1
2	P8E	AV	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AQ	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AJ	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A7	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AO	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A5	603	-	-	3/11/28/32	0/1/1/1
2	P8E	AU	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A6	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AD	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AX	608	-	-	0/11/28/32	0/1/1/1
2	P8E	A5	609	-	-	3/11/28/32	0/1/1/1
2	P8E	A3	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A1	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A4	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AE	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AA	602	-	-	0/11/28/32	0/1/1/1
2	P8E	A2	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AO	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AP	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AB	603	-	-	3/11/28/32	0/1/1/1
2	P8E	AC	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AD	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AF	607	-	-	6/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AB	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AG	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A1	603	-	-	3/11/28/32	0/1/1/1
2	P8E	AK	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AM	609	-	-	3/11/28/32	0/1/1/1
2	P8E	A2	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AG	606	-	-	2/11/28/32	0/1/1/1
2	P8E	A2	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AJ	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AO	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AQ	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AE	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AJ	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AD	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	AM	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A9	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AA	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A3	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AX	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	AB	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AI	609	-	-	3/11/28/32	0/1/1/1
2	P8E	A9	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AC	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A3	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AB	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AQ	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AH	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A6	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A2	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AH	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AM	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A7	603	-	-	2/11/28/32	0/1/1/1
2	P8E	A8	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AK	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AF	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A2	608	-	-	1/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AL	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AG	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AB	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AD	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AS	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AX	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AC	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AX	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AH	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AB	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AC	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AG	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AM	602	-	-	0/11/28/32	0/1/1/1
2	P8E	AS	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AX	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AK	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AA	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	A3	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AM	605	-	-	3/11/28/32	0/1/1/1
2	P8E	A8	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AJ	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AW	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AX	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AE	606	-	-	2/11/28/32	0/1/1/1
2	P8E	AW	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AJ	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AO	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AV	603	-	-	2/11/28/32	0/1/1/1
2	P8E	AS	605	-	-	3/11/28/32	0/1/1/1
2	P8E	AB	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AO	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AS	604	-	1/1/7/7	9/11/28/32	0/1/1/1
2	P8E	AM	607	-	-	6/11/28/32	0/1/1/1
2	P8E	A7	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AO	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A3	601	-	-	0/11/28/32	0/1/1/1
2	P8E	AL	605	-	-	3/11/28/32	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	P8E	AS	608	-	-	1/11/28/32	0/1/1/1
2	P8E	AW	609	-	-	3/11/28/32	0/1/1/1
2	P8E	AO	601	-	-	0/11/28/32	0/1/1/1
2	P8E	A1	604	-	1/1/7/7	8/11/28/32	0/1/1/1
2	P8E	AD	609	-	-	3/11/28/32	0/1/1/1
2	P8E	A5	607	-	-	6/11/28/32	0/1/1/1
2	P8E	AL	608	-	-	1/11/28/32	0/1/1/1
2	P8E	A6	603	-	-	2/11/28/32	0/1/1/1

All (297) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AV	604	P8E	O6-C6	-2.59	1.40	1.44
2	AK	605	P8E	O6-C6	-2.48	1.40	1.44
2	AF	605	P8E	O6-C6	-2.48	1.40	1.44
2	AR	605	P8E	O6-C6	-2.47	1.40	1.44
2	AA	605	P8E	O6-C6	-2.47	1.40	1.44
2	AI	605	P8E	O6-C6	-2.47	1.40	1.44
2	AB	605	P8E	O6-C6	-2.47	1.40	1.44
2	A5	605	P8E	O6-C6	-2.47	1.40	1.44
2	AM	605	P8E	O6-C6	-2.47	1.40	1.44
2	AW	605	P8E	O6-C6	-2.47	1.40	1.44
2	A9	605	P8E	O6-C6	-2.46	1.40	1.44
2	A6	605	P8E	O6-C6	-2.46	1.40	1.44
2	AO	605	P8E	O6-C6	-2.46	1.40	1.44
2	AH	605	P8E	O6-C6	-2.46	1.40	1.44
2	AA	604	P8E	O6-C6	-2.46	1.40	1.44
2	AQ	605	P8E	O6-C6	-2.46	1.40	1.44
2	A4	605	P8E	O6-C6	-2.46	1.40	1.44
2	AG	605	P8E	O6-C6	-2.46	1.40	1.44
2	A2	605	P8E	O6-C6	-2.45	1.40	1.44
2	AN	605	P8E	O6-C6	-2.45	1.40	1.44
2	A8	605	P8E	O6-C6	-2.45	1.40	1.44
2	AS	605	P8E	O6-C6	-2.45	1.40	1.44
2	A1	605	P8E	O6-C6	-2.45	1.40	1.44
2	AB	604	P8E	O6-C6	-2.45	1.40	1.44
2	AV	605	P8E	O6-C6	-2.45	1.40	1.44
2	AT	605	P8E	O6-C6	-2.45	1.40	1.44
2	AU	606	P8E	O6-C6	-2.45	1.40	1.44
2	AU	605	P8E	O6-C6	-2.44	1.40	1.44
2	AJ	605	P8E	O6-C6	-2.44	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AP	605	P8E	O6-C6	-2.44	1.40	1.44
2	AT	604	P8E	O6-C6	-2.43	1.40	1.44
2	AL	605	P8E	O6-C6	-2.43	1.40	1.44
2	A1	604	P8E	O6-C6	-2.42	1.40	1.44
2	AQ	604	P8E	O6-C6	-2.42	1.40	1.44
2	AR	606	P8E	O6-C6	-2.42	1.40	1.44
2	AE	605	P8E	O6-C6	-2.42	1.40	1.44
2	A6	604	P8E	O6-C6	-2.42	1.40	1.44
2	AI	606	P8E	O6-C6	-2.42	1.40	1.44
2	A3	605	P8E	O6-C6	-2.42	1.40	1.44
2	AD	605	P8E	O6-C6	-2.41	1.40	1.44
2	AK	606	P8E	O6-C6	-2.41	1.40	1.44
2	AN	604	P8E	O6-C6	-2.41	1.40	1.44
2	AC	605	P8E	O6-C6	-2.41	1.40	1.44
2	AG	604	P8E	O6-C6	-2.41	1.40	1.44
2	AH	604	P8E	O6-C6	-2.41	1.40	1.44
2	A9	604	P8E	O6-C6	-2.41	1.40	1.44
2	AF	604	P8E	O6-C6	-2.41	1.40	1.44
2	AL	604	P8E	O6-C6	-2.41	1.40	1.44
2	AX	605	P8E	O6-C6	-2.41	1.40	1.44
2	AM	604	P8E	O6-C6	-2.41	1.40	1.44
2	A2	604	P8E	O6-C6	-2.41	1.40	1.44
2	A7	605	P8E	O6-C6	-2.41	1.40	1.44
2	AW	604	P8E	O6-C6	-2.41	1.40	1.44
2	A4	604	P8E	O6-C6	-2.41	1.40	1.44
2	A8	604	P8E	O6-C6	-2.41	1.40	1.44
2	AI	604	P8E	O6-C6	-2.41	1.40	1.44
2	AU	604	P8E	O6-C6	-2.41	1.40	1.44
2	AF	606	P8E	O6-C6	-2.40	1.40	1.44
2	A5	604	P8E	O6-C6	-2.40	1.40	1.44
2	AR	604	P8E	O6-C6	-2.40	1.40	1.44
2	AS	604	P8E	O6-C6	-2.40	1.40	1.44
2	AO	604	P8E	O6-C6	-2.40	1.40	1.44
2	AG	606	P8E	O6-C6	-2.40	1.40	1.44
2	A1	606	P8E	O6-C6	-2.40	1.40	1.44
2	A9	606	P8E	O6-C6	-2.40	1.40	1.44
2	AP	604	P8E	O6-C6	-2.40	1.40	1.44
2	A6	606	P8E	O6-C6	-2.40	1.40	1.44
2	AB	606	P8E	O6-C6	-2.40	1.40	1.44
2	AN	606	P8E	O6-C6	-2.40	1.40	1.44
2	AT	606	P8E	O6-C6	-2.40	1.40	1.44
2	AK	604	P8E	O6-C6	-2.40	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AJ	604	P8E	O6-C6	-2.39	1.40	1.44
2	AM	606	P8E	O6-C6	-2.39	1.40	1.44
2	AS	606	P8E	O6-C6	-2.39	1.40	1.44
2	AC	604	P8E	O6-C6	-2.39	1.40	1.44
2	AX	604	P8E	O6-C6	-2.39	1.40	1.44
2	A7	604	P8E	O6-C6	-2.39	1.40	1.44
2	A5	606	P8E	O6-C6	-2.39	1.40	1.44
2	A2	606	P8E	O6-C6	-2.39	1.40	1.44
2	AE	604	P8E	O6-C6	-2.39	1.40	1.44
2	AP	606	P8E	O6-C6	-2.39	1.40	1.44
2	AQ	606	P8E	O6-C6	-2.39	1.40	1.44
2	A3	604	P8E	O6-C6	-2.38	1.40	1.44
2	A8	606	P8E	O6-C6	-2.38	1.40	1.44
2	AH	606	P8E	O6-C6	-2.38	1.40	1.44
2	AV	606	P8E	O6-C6	-2.38	1.40	1.44
2	AD	606	P8E	O6-C6	-2.38	1.40	1.44
2	A4	606	P8E	O6-C6	-2.38	1.40	1.44
2	AD	604	P8E	O6-C6	-2.38	1.40	1.44
2	AJ	606	P8E	O6-C6	-2.38	1.40	1.44
2	AW	606	P8E	O6-C6	-2.38	1.40	1.44
2	AO	606	P8E	O6-C6	-2.37	1.40	1.44
2	AA	606	P8E	O6-C6	-2.37	1.40	1.44
2	AL	606	P8E	O6-C6	-2.37	1.40	1.44
2	A3	606	P8E	O6-C6	-2.36	1.40	1.44
2	AC	606	P8E	O6-C6	-2.36	1.40	1.44
2	AE	606	P8E	O6-C6	-2.36	1.40	1.44
2	AM	609	P8E	O6-C6	-2.36	1.40	1.44
2	A6	609	P8E	O6-C6	-2.35	1.40	1.44
2	A9	609	P8E	O6-C6	-2.35	1.40	1.44
2	AF	609	P8E	O6-C6	-2.35	1.40	1.44
2	AQ	609	P8E	O6-C6	-2.35	1.40	1.44
2	AX	606	P8E	O6-C6	-2.35	1.40	1.44
2	AA	609	P8E	O6-C6	-2.35	1.40	1.44
2	AH	609	P8E	O6-C6	-2.35	1.40	1.44
2	A4	609	P8E	O6-C6	-2.34	1.40	1.44
2	A7	606	P8E	O6-C6	-2.34	1.40	1.44
2	AN	609	P8E	O6-C6	-2.33	1.40	1.44
2	A1	609	P8E	O6-C6	-2.33	1.40	1.44
2	A2	609	P8E	O6-C6	-2.33	1.40	1.44
2	AK	603	P8E	O6-C6	-2.33	1.40	1.44
2	AV	609	P8E	O6-C6	-2.33	1.40	1.44
2	A1	603	P8E	O6-C6	-2.33	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AT	609	P8E	O6-C6	-2.33	1.40	1.44
2	AG	609	P8E	O6-C6	-2.33	1.40	1.44
2	AQ	603	P8E	O6-C6	-2.33	1.40	1.44
2	AS	603	P8E	O6-C6	-2.33	1.40	1.44
2	AR	609	P8E	O6-C6	-2.32	1.40	1.44
2	AW	609	P8E	O6-C6	-2.32	1.40	1.44
2	AK	602	P8E	O6-C6	-2.32	1.40	1.44
2	A2	603	P8E	O6-C6	-2.32	1.40	1.44
2	AD	609	P8E	O6-C6	-2.32	1.40	1.44
2	AP	609	P8E	O6-C6	-2.32	1.40	1.44
2	A4	603	P8E	O6-C6	-2.32	1.40	1.44
2	AU	609	P8E	O6-C6	-2.32	1.40	1.44
2	AW	603	P8E	O6-C6	-2.32	1.40	1.44
2	AG	602	P8E	O6-C6	-2.31	1.40	1.44
2	AF	603	P8E	O6-C6	-2.31	1.40	1.44
2	AB	609	P8E	O6-C6	-2.31	1.40	1.44
2	AH	602	P8E	O6-C6	-2.31	1.40	1.44
2	A9	603	P8E	O6-C6	-2.31	1.40	1.44
2	AH	603	P8E	O6-C6	-2.31	1.40	1.44
2	AN	603	P8E	O6-C6	-2.31	1.40	1.44
2	AT	602	P8E	O6-C6	-2.31	1.40	1.44
2	AI	609	P8E	O6-C6	-2.31	1.40	1.44
2	AL	602	P8E	O6-C6	-2.31	1.40	1.44
2	AR	602	P8E	O6-C6	-2.31	1.40	1.44
2	AI	602	P8E	O6-C6	-2.31	1.40	1.44
2	A6	602	P8E	O6-C6	-2.31	1.40	1.44
2	A3	608	P8E	O6-C6	-2.31	1.40	1.44
2	AI	603	P8E	O6-C6	-2.31	1.40	1.44
2	A7	608	P8E	O6-C6	-2.31	1.40	1.44
2	AF	602	P8E	O6-C6	-2.31	1.40	1.44
2	AK	609	P8E	O6-C6	-2.31	1.40	1.44
2	AX	608	P8E	O6-C6	-2.31	1.40	1.44
2	A8	602	P8E	O6-C6	-2.31	1.40	1.44
2	AM	602	P8E	O6-C6	-2.31	1.40	1.44
2	AP	603	P8E	O6-C6	-2.31	1.40	1.44
2	AO	609	P8E	O6-C6	-2.31	1.40	1.44
2	AS	602	P8E	O6-C6	-2.31	1.40	1.44
2	A5	602	P8E	O6-C6	-2.30	1.40	1.44
2	A9	602	P8E	O6-C6	-2.30	1.40	1.44
2	AS	609	P8E	O6-C6	-2.30	1.40	1.44
2	AB	602	P8E	O6-C6	-2.30	1.40	1.44
2	AD	602	P8E	O6-C6	-2.30	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AX	602	P8E	O6-C6	-2.30	1.40	1.44
2	A6	603	P8E	O6-C6	-2.30	1.40	1.44
2	AC	602	P8E	O6-C6	-2.30	1.40	1.44
2	AC	609	P8E	O6-C6	-2.30	1.40	1.44
2	AE	608	P8E	O6-C6	-2.30	1.40	1.44
2	A5	609	P8E	O6-C6	-2.30	1.40	1.44
2	AN	608	P8E	O6-C6	-2.30	1.40	1.44
2	AP	602	P8E	O6-C6	-2.30	1.40	1.44
2	AE	609	P8E	O6-C6	-2.30	1.40	1.44
2	AO	602	P8E	O6-C6	-2.30	1.40	1.44
2	A2	602	P8E	O6-C6	-2.30	1.40	1.44
2	AG	603	P8E	O6-C6	-2.30	1.40	1.44
2	AR	603	P8E	O6-C6	-2.30	1.40	1.44
2	A7	602	P8E	O6-C6	-2.30	1.40	1.44
2	AJ	602	P8E	O6-C6	-2.30	1.40	1.44
2	AJ	609	P8E	O6-C6	-2.30	1.40	1.44
2	A3	602	P8E	O6-C6	-2.30	1.40	1.44
2	AA	602	P8E	O6-C6	-2.30	1.40	1.44
2	AN	602	P8E	O6-C6	-2.30	1.40	1.44
2	AT	603	P8E	O6-C6	-2.30	1.40	1.44
2	AV	603	P8E	O6-C6	-2.30	1.40	1.44
2	A3	609	P8E	O6-C6	-2.30	1.40	1.44
2	A8	608	P8E	O6-C6	-2.30	1.40	1.44
2	AQ	602	P8E	O6-C6	-2.30	1.40	1.44
2	AJ	608	P8E	O6-C6	-2.29	1.40	1.44
2	AU	608	P8E	O6-C6	-2.29	1.40	1.44
2	A4	602	P8E	O6-C6	-2.29	1.40	1.44
2	A8	609	P8E	O6-C6	-2.29	1.40	1.44
2	A1	602	P8E	O6-C6	-2.29	1.40	1.44
2	AU	602	P8E	O6-C6	-2.29	1.40	1.44
2	A8	603	P8E	O6-C6	-2.29	1.40	1.44
2	AA	603	P8E	O6-C6	-2.29	1.40	1.44
2	AV	602	P8E	O6-C6	-2.29	1.40	1.44
2	AD	608	P8E	O6-C6	-2.29	1.40	1.44
2	AK	608	P8E	O6-C6	-2.29	1.40	1.44
2	AL	608	P8E	O6-C6	-2.29	1.40	1.44
2	AM	603	P8E	O6-C6	-2.29	1.40	1.44
2	AU	603	P8E	O6-C6	-2.29	1.40	1.44
2	AW	602	P8E	O6-C6	-2.29	1.40	1.44
2	AL	609	P8E	O6-C6	-2.29	1.40	1.44
2	AS	608	P8E	O6-C6	-2.29	1.40	1.44
2	AJ	603	P8E	O6-C6	-2.29	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AE	602	P8E	O6-C6	-2.29	1.40	1.44
2	AL	603	P8E	O6-C6	-2.28	1.40	1.44
2	AB	603	P8E	O6-C6	-2.28	1.40	1.44
2	AC	608	P8E	O6-C6	-2.28	1.40	1.44
2	A5	608	P8E	O6-C6	-2.28	1.40	1.44
2	A7	609	P8E	O6-C6	-2.28	1.40	1.44
2	AO	603	P8E	O6-C6	-2.27	1.40	1.44
2	AO	608	P8E	O6-C6	-2.27	1.40	1.44
2	AX	609	P8E	O6-C6	-2.27	1.40	1.44
2	A5	603	P8E	O6-C6	-2.27	1.40	1.44
2	AC	603	P8E	O6-C6	-2.27	1.40	1.44
2	AD	603	P8E	O6-C6	-2.27	1.40	1.44
2	AE	603	P8E	O6-C6	-2.27	1.40	1.44
2	AA	607	P8E	O6-C6	-2.27	1.40	1.44
2	AI	608	P8E	O6-C6	-2.27	1.40	1.44
2	AE	601	P8E	O6-C6	-2.26	1.40	1.44
2	A7	601	P8E	O6-C6	-2.26	1.40	1.44
2	A3	603	P8E	O6-C6	-2.26	1.40	1.44
2	AR	608	P8E	O6-C6	-2.26	1.40	1.44
2	A3	601	P8E	O6-C6	-2.26	1.40	1.44
2	A4	607	P8E	O6-C6	-2.26	1.40	1.44
2	AB	607	P8E	O6-C6	-2.26	1.40	1.44
2	AG	608	P8E	O6-C6	-2.26	1.40	1.44
2	AQ	608	P8E	O6-C6	-2.26	1.40	1.44
2	AH	608	P8E	O6-C6	-2.26	1.40	1.44
2	AP	608	P8E	O6-C6	-2.26	1.40	1.44
2	AT	608	P8E	O6-C6	-2.26	1.40	1.44
2	AX	603	P8E	O6-C6	-2.26	1.40	1.44
2	AB	608	P8E	O6-C6	-2.25	1.40	1.44
2	AV	608	P8E	O6-C6	-2.25	1.40	1.44
2	AV	607	P8E	O6-C6	-2.25	1.40	1.44
2	A4	608	P8E	O6-C6	-2.25	1.40	1.44
2	AW	607	P8E	O6-C6	-2.25	1.40	1.44
2	A1	608	P8E	O6-C6	-2.25	1.40	1.44
2	AD	601	P8E	O6-C6	-2.25	1.40	1.44
2	AF	608	P8E	O6-C6	-2.25	1.40	1.44
2	A7	603	P8E	O6-C6	-2.25	1.40	1.44
2	A9	608	P8E	O6-C6	-2.25	1.40	1.44
2	AA	608	P8E	O6-C6	-2.25	1.40	1.44
2	AX	601	P8E	O6-C6	-2.24	1.40	1.44
2	A2	608	P8E	O6-C6	-2.24	1.40	1.44
2	AM	608	P8E	O6-C6	-2.24	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AP	601	P8E	O6-C6	-2.24	1.40	1.44
2	AW	608	P8E	O6-C6	-2.24	1.40	1.44
2	A6	608	P8E	O6-C6	-2.24	1.40	1.44
2	A2	607	P8E	O6-C6	-2.24	1.40	1.44
2	AC	601	P8E	O6-C6	-2.23	1.40	1.44
2	AG	601	P8E	O6-C6	-2.23	1.40	1.44
2	A1	601	P8E	O6-C6	-2.23	1.40	1.44
2	AO	601	P8E	O6-C6	-2.23	1.40	1.44
2	A9	601	P8E	O6-C6	-2.23	1.40	1.44
2	AW	601	P8E	O6-C6	-2.23	1.40	1.44
2	AL	601	P8E	O6-C6	-2.23	1.40	1.44
2	AM	601	P8E	O6-C6	-2.23	1.40	1.44
2	AS	601	P8E	O6-C6	-2.23	1.40	1.44
2	AA	601	P8E	O6-C6	-2.23	1.40	1.44
2	A1	607	P8E	O6-C6	-2.23	1.40	1.44
2	A5	601	P8E	O6-C6	-2.23	1.40	1.44
2	A2	601	P8E	O6-C6	-2.23	1.40	1.44
2	A4	601	P8E	O6-C6	-2.23	1.40	1.44
2	A6	601	P8E	O6-C6	-2.23	1.40	1.44
2	AK	601	P8E	O6-C6	-2.22	1.40	1.44
2	A9	607	P8E	O6-C6	-2.22	1.40	1.44
2	AF	601	P8E	O6-C6	-2.22	1.40	1.44
2	AU	601	P8E	O6-C6	-2.22	1.40	1.44
2	A6	607	P8E	O6-C6	-2.22	1.40	1.44
2	AN	601	P8E	O6-C6	-2.22	1.40	1.44
2	AB	601	P8E	O6-C6	-2.22	1.40	1.44
2	AI	601	P8E	O6-C6	-2.22	1.40	1.44
2	A8	601	P8E	O6-C6	-2.22	1.40	1.44
2	AJ	601	P8E	O6-C6	-2.22	1.40	1.44
2	AF	607	P8E	O6-C6	-2.22	1.40	1.44
2	AT	601	P8E	O6-C6	-2.22	1.40	1.44
2	AH	601	P8E	O6-C6	-2.21	1.40	1.44
2	AQ	601	P8E	O6-C6	-2.21	1.40	1.44
2	AV	601	P8E	O6-C6	-2.21	1.40	1.44
2	AR	601	P8E	O6-C6	-2.21	1.40	1.44
2	AM	607	P8E	O6-C6	-2.20	1.40	1.44
2	AS	607	P8E	O6-C6	-2.20	1.40	1.44
2	AQ	607	P8E	O6-C6	-2.19	1.40	1.44
2	AH	607	P8E	O6-C6	-2.19	1.40	1.44
2	AT	607	P8E	O6-C6	-2.19	1.40	1.44
2	AN	607	P8E	O6-C6	-2.18	1.40	1.44
2	AG	607	P8E	O6-C6	-2.17	1.40	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AX	607	P8E	O6-C6	-2.17	1.40	1.44
2	AU	607	P8E	O6-C6	-2.15	1.40	1.44
2	AE	607	P8E	O6-C6	-2.15	1.40	1.44
2	AI	607	P8E	O6-C6	-2.15	1.40	1.44
2	AR	607	P8E	O6-C6	-2.15	1.40	1.44
2	AK	607	P8E	O6-C6	-2.14	1.40	1.44
2	AP	607	P8E	O6-C6	-2.14	1.40	1.44
2	AD	607	P8E	O6-C6	-2.14	1.40	1.44
2	AO	607	P8E	O6-C6	-2.14	1.40	1.44
2	A3	607	P8E	O6-C6	-2.14	1.40	1.44
2	A8	607	P8E	O6-C6	-2.13	1.40	1.44
2	A7	607	P8E	O6-C6	-2.12	1.40	1.44
2	AC	607	P8E	O6-C6	-2.12	1.40	1.44
2	A5	607	P8E	O6-C6	-2.12	1.40	1.44
2	AJ	607	P8E	O6-C6	-2.12	1.40	1.44
2	AL	607	P8E	O6-C6	-2.11	1.40	1.44

All (914) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AE	604	P8E	O6-C2-C1	8.22	123.23	107.72
2	A3	604	P8E	O6-C2-C1	8.22	123.23	107.72
2	AJ	604	P8E	O6-C2-C1	8.21	123.22	107.72
2	AC	604	P8E	O6-C2-C1	8.20	123.21	107.72
2	AU	604	P8E	O6-C2-C1	8.20	123.21	107.72
2	AD	604	P8E	O6-C2-C1	8.20	123.20	107.72
2	AO	604	P8E	O6-C2-C1	8.19	123.18	107.72
2	A5	604	P8E	O6-C2-C1	8.19	123.17	107.72
2	A7	604	P8E	O6-C2-C1	8.18	123.16	107.72
2	AX	604	P8E	O6-C2-C1	8.18	123.16	107.72
2	A8	604	P8E	O6-C2-C1	8.18	123.16	107.72
2	AL	604	P8E	O6-C2-C1	8.17	123.14	107.72
2	AK	604	P8E	O6-C2-C1	8.15	123.11	107.72
2	AP	604	P8E	O6-C2-C1	8.15	123.10	107.72
2	AS	604	P8E	O6-C2-C1	8.13	123.08	107.72
2	AF	604	P8E	O6-C2-C1	8.12	123.04	107.72
2	AR	604	P8E	O6-C2-C1	8.11	123.03	107.72
2	AI	604	P8E	O6-C2-C1	8.09	122.99	107.72
2	AM	604	P8E	O6-C2-C1	8.09	122.99	107.72
2	AT	604	P8E	O6-C2-C1	8.09	122.99	107.72
2	AW	604	P8E	O6-C2-C1	8.08	122.97	107.72
2	A9	604	P8E	O6-C2-C1	8.08	122.97	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AG	604	P8E	O6-C2-C1	8.07	122.96	107.72
2	A2	604	P8E	O6-C2-C1	8.06	122.94	107.72
2	A6	604	P8E	O6-C2-C1	8.06	122.94	107.72
2	A1	604	P8E	O6-C2-C1	8.05	122.92	107.72
2	A4	604	P8E	O6-C2-C1	8.04	122.90	107.72
2	AQ	604	P8E	O6-C2-C1	8.04	122.89	107.72
2	AN	604	P8E	O6-C2-C1	8.03	122.88	107.72
2	AH	604	P8E	O6-C2-C1	8.02	122.85	107.72
2	AA	604	P8E	O6-C2-C1	8.01	122.84	107.72
2	AB	604	P8E	O6-C2-C1	8.01	122.83	107.72
2	AV	604	P8E	O6-C2-C1	7.91	122.66	107.72
2	AV	602	P8E	O6-C2-C1	7.58	122.03	107.72
2	A3	607	P8E	O6-C2-C1	7.55	121.97	107.72
2	A4	602	P8E	O6-C2-C1	7.54	121.95	107.72
2	AL	607	P8E	O6-C2-C1	7.54	121.95	107.72
2	AC	607	P8E	O6-C2-C1	7.53	121.93	107.72
2	A7	607	P8E	O6-C2-C1	7.53	121.93	107.72
2	AW	602	P8E	O6-C2-C1	7.52	121.92	107.72
2	A9	602	P8E	O6-C2-C1	7.51	121.89	107.72
2	AA	602	P8E	O6-C2-C1	7.51	121.89	107.72
2	AB	602	P8E	O6-C2-C1	7.51	121.89	107.72
2	AO	607	P8E	O6-C2-C1	7.50	121.89	107.72
2	AK	602	P8E	O6-C2-C1	7.50	121.87	107.72
2	A7	602	P8E	O6-C2-C1	7.50	121.87	107.72
2	AX	602	P8E	O6-C2-C1	7.50	121.87	107.72
2	A5	607	P8E	O6-C2-C1	7.49	121.86	107.72
2	AP	602	P8E	O6-C2-C1	7.49	121.86	107.72
2	AE	607	P8E	O6-C2-C1	7.49	121.86	107.72
2	AP	607	P8E	O6-C2-C1	7.49	121.85	107.72
2	AJ	607	P8E	O6-C2-C1	7.48	121.85	107.72
2	AU	602	P8E	O6-C2-C1	7.48	121.84	107.72
2	A3	602	P8E	O6-C2-C1	7.48	121.83	107.72
2	AR	602	P8E	O6-C2-C1	7.48	121.83	107.72
2	AL	602	P8E	O6-C2-C1	7.47	121.83	107.72
2	AE	602	P8E	O6-C2-C1	7.47	121.83	107.72
2	A6	602	P8E	O6-C2-C1	7.47	121.82	107.72
2	AT	602	P8E	O6-C2-C1	7.47	121.82	107.72
2	A2	602	P8E	O6-C2-C1	7.47	121.81	107.72
2	AU	607	P8E	O6-C2-C1	7.47	121.81	107.72
2	AF	602	P8E	O6-C2-C1	7.47	121.81	107.72
2	AS	602	P8E	O6-C2-C1	7.46	121.81	107.72
2	AX	607	P8E	O6-C2-C1	7.46	121.81	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AC	602	P8E	O6-C2-C1	7.46	121.80	107.72
2	A8	607	P8E	O6-C2-C1	7.46	121.80	107.72
2	AI	602	P8E	O6-C2-C1	7.46	121.80	107.72
2	AO	602	P8E	O6-C2-C1	7.46	121.80	107.72
2	AD	607	P8E	O6-C2-C1	7.46	121.79	107.72
2	A1	602	P8E	O6-C2-C1	7.45	121.79	107.72
2	AG	602	P8E	O6-C2-C1	7.45	121.79	107.72
2	AJ	602	P8E	O6-C2-C1	7.45	121.78	107.72
2	AN	602	P8E	O6-C2-C1	7.45	121.78	107.72
2	AI	607	P8E	O6-C2-C1	7.44	121.76	107.72
2	AQ	602	P8E	O6-C2-C1	7.44	121.76	107.72
2	AH	602	P8E	O6-C2-C1	7.44	121.76	107.72
2	AD	602	P8E	O6-C2-C1	7.43	121.75	107.72
2	A5	602	P8E	O6-C2-C1	7.43	121.75	107.72
2	A8	602	P8E	O6-C2-C1	7.42	121.73	107.72
2	AK	607	P8E	O6-C2-C1	7.42	121.73	107.72
2	AH	607	P8E	O6-C2-C1	7.42	121.72	107.72
2	AB	609	P8E	O6-C2-C1	7.41	121.72	107.72
2	AT	607	P8E	O6-C2-C1	7.41	121.72	107.72
2	AQ	607	P8E	O6-C2-C1	7.41	121.71	107.72
2	AN	607	P8E	O6-C2-C1	7.41	121.71	107.72
2	AM	607	P8E	O6-C2-C1	7.40	121.70	107.72
2	AF	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	AR	607	P8E	O6-C2-C1	7.40	121.69	107.72
2	AM	602	P8E	O6-C2-C1	7.40	121.69	107.72
2	AG	607	P8E	O6-C2-C1	7.40	121.68	107.72
2	AI	609	P8E	O6-C2-C1	7.39	121.67	107.72
2	AO	609	P8E	O6-C2-C1	7.38	121.66	107.72
2	AS	607	P8E	O6-C2-C1	7.38	121.64	107.72
2	AK	609	P8E	O6-C2-C1	7.38	121.64	107.72
2	A2	607	P8E	O6-C2-C1	7.37	121.63	107.72
2	AR	609	P8E	O6-C2-C1	7.37	121.63	107.72
2	AA	607	P8E	O6-C2-C1	7.36	121.62	107.72
2	AB	607	P8E	O6-C2-C1	7.36	121.62	107.72
2	AW	607	P8E	O6-C2-C1	7.36	121.61	107.72
2	A5	609	P8E	O6-C2-C1	7.36	121.61	107.72
2	AP	609	P8E	O6-C2-C1	7.36	121.61	107.72
2	AG	609	P8E	O6-C2-C1	7.36	121.61	107.72
2	AW	609	P8E	O6-C2-C1	7.36	121.61	107.72
2	A6	607	P8E	O6-C2-C1	7.35	121.60	107.72
2	AV	609	P8E	O6-C2-C1	7.35	121.60	107.72
2	A1	609	P8E	O6-C2-C1	7.35	121.60	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AU	609	P8E	O6-C2-C1	7.35	121.60	107.72
2	AL	609	P8E	O6-C2-C1	7.35	121.60	107.72
2	A2	609	P8E	O6-C2-C1	7.35	121.59	107.72
2	A9	607	P8E	O6-C2-C1	7.35	121.59	107.72
2	A7	609	P8E	O6-C2-C1	7.34	121.58	107.72
2	A8	609	P8E	O6-C2-C1	7.34	121.57	107.72
2	AA	609	P8E	O6-C2-C1	7.34	121.57	107.72
2	AS	609	P8E	O6-C2-C1	7.33	121.56	107.72
2	AT	609	P8E	O6-C2-C1	7.33	121.56	107.72
2	AJ	609	P8E	O6-C2-C1	7.33	121.56	107.72
2	A4	609	P8E	O6-C2-C1	7.33	121.55	107.72
2	AQ	609	P8E	O6-C2-C1	7.33	121.55	107.72
2	AV	607	P8E	O6-C2-C1	7.32	121.54	107.72
2	A1	607	P8E	O6-C2-C1	7.32	121.54	107.72
2	A4	607	P8E	O6-C2-C1	7.32	121.54	107.72
2	AX	609	P8E	O6-C2-C1	7.32	121.53	107.72
2	AC	609	P8E	O6-C2-C1	7.30	121.49	107.72
2	A3	609	P8E	O6-C2-C1	7.30	121.49	107.72
2	AN	609	P8E	O6-C2-C1	7.28	121.47	107.72
2	AH	609	P8E	O6-C2-C1	7.27	121.44	107.72
2	AE	609	P8E	O6-C2-C1	7.27	121.44	107.72
2	A9	609	P8E	O6-C2-C1	7.26	121.43	107.72
2	AD	609	P8E	O6-C2-C1	7.23	121.38	107.72
2	A6	609	P8E	O6-C2-C1	7.22	121.35	107.72
2	AF	609	P8E	O6-C2-C1	7.21	121.33	107.72
2	AM	609	P8E	O6-C2-C1	7.20	121.31	107.72
2	AE	603	P8E	O6-C2-C1	7.14	121.20	107.72
2	AG	608	P8E	O6-C2-C1	7.09	121.10	107.72
2	AR	608	P8E	O6-C2-C1	7.09	121.10	107.72
2	AR	603	P8E	O6-C2-C1	7.08	121.08	107.72
2	AP	608	P8E	O6-C2-C1	7.07	121.06	107.72
2	AW	608	P8E	O6-C2-C1	7.05	121.03	107.72
2	AM	608	P8E	O6-C2-C1	7.05	121.03	107.72
2	AT	608	P8E	O6-C2-C1	7.04	121.01	107.72
2	AA	608	P8E	O6-C2-C1	7.04	121.00	107.72
2	A3	603	P8E	O6-C2-C1	7.03	121.00	107.72
2	AO	608	P8E	O6-C2-C1	7.03	121.00	107.72
2	A8	603	P8E	O6-C2-C1	7.03	120.98	107.72
2	AN	603	P8E	O6-C2-C1	7.03	120.98	107.72
2	A6	608	P8E	O6-C2-C1	7.02	120.98	107.72
2	A5	603	P8E	O6-C2-C1	7.02	120.98	107.72
2	A5	608	P8E	O6-C2-C1	7.02	120.97	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AL	608	P8E	O6-C2-C1	7.02	120.97	107.72
2	AI	608	P8E	O6-C2-C1	7.02	120.97	107.72
2	AC	608	P8E	O6-C2-C1	7.02	120.97	107.72
2	AQ	603	P8E	O6-C2-C1	7.02	120.97	107.72
2	A1	608	P8E	O6-C2-C1	7.02	120.97	107.72
2	A4	608	P8E	O6-C2-C1	7.02	120.96	107.72
2	AX	603	P8E	O6-C2-C1	7.01	120.96	107.72
2	A7	603	P8E	O6-C2-C1	7.01	120.96	107.72
2	AF	608	P8E	O6-C2-C1	7.01	120.96	107.72
2	AB	608	P8E	O6-C2-C1	7.01	120.95	107.72
2	AV	608	P8E	O6-C2-C1	7.01	120.95	107.72
2	A9	608	P8E	O6-C2-C1	7.01	120.95	107.72
2	A2	608	P8E	O6-C2-C1	7.00	120.94	107.72
2	AG	603	P8E	O6-C2-C1	6.99	120.92	107.72
2	AQ	608	P8E	O6-C2-C1	6.99	120.92	107.72
2	AS	608	P8E	O6-C2-C1	6.99	120.92	107.72
2	AJ	603	P8E	O6-C2-C1	6.99	120.91	107.72
2	AD	608	P8E	O6-C2-C1	6.99	120.91	107.72
2	AS	603	P8E	O6-C2-C1	6.99	120.91	107.72
2	AC	603	P8E	O6-C2-C1	6.99	120.91	107.72
2	AO	603	P8E	O6-C2-C1	6.99	120.91	107.72
2	A3	608	P8E	O6-C2-C1	6.98	120.90	107.72
2	AD	603	P8E	O6-C2-C1	6.98	120.89	107.72
2	AL	603	P8E	O6-C2-C1	6.98	120.89	107.72
2	AK	608	P8E	O6-C2-C1	6.97	120.89	107.72
2	AJ	608	P8E	O6-C2-C1	6.97	120.88	107.72
2	A7	608	P8E	O6-C2-C1	6.97	120.88	107.72
2	AT	603	P8E	O6-C2-C1	6.97	120.87	107.72
2	AM	603	P8E	O6-C2-C1	6.96	120.86	107.72
2	AU	608	P8E	O6-C2-C1	6.96	120.86	107.72
2	AI	603	P8E	O6-C2-C1	6.96	120.86	107.72
2	AB	603	P8E	O6-C2-C1	6.96	120.86	107.72
2	AA	603	P8E	O6-C2-C1	6.96	120.86	107.72
2	A4	603	P8E	O6-C2-C1	6.94	120.83	107.72
2	AE	608	P8E	O6-C2-C1	6.94	120.82	107.72
2	AH	608	P8E	O6-C2-C1	6.93	120.81	107.72
2	A8	608	P8E	O6-C2-C1	6.93	120.81	107.72
2	AP	603	P8E	O6-C2-C1	6.93	120.80	107.72
2	AU	603	P8E	O6-C2-C1	6.93	120.80	107.72
2	AV	603	P8E	O6-C2-C1	6.93	120.80	107.72
2	AX	608	P8E	O6-C2-C1	6.91	120.77	107.72
2	AF	603	P8E	O6-C2-C1	6.89	120.73	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AH	603	P8E	O6-C2-C1	6.89	120.73	107.72
2	A9	603	P8E	O6-C2-C1	6.89	120.73	107.72
2	AK	603	P8E	O6-C2-C1	6.89	120.73	107.72
2	A6	603	P8E	O6-C2-C1	6.88	120.71	107.72
2	A1	603	P8E	O6-C2-C1	6.87	120.69	107.72
2	AN	608	P8E	O6-C2-C1	6.87	120.68	107.72
2	AW	603	P8E	O6-C2-C1	6.86	120.66	107.72
2	AE	605	P8E	O6-C2-C1	6.84	120.64	107.72
2	A2	603	P8E	O6-C2-C1	6.84	120.63	107.72
2	AJ	605	P8E	O6-C2-C1	6.81	120.58	107.72
2	AN	605	P8E	O6-C2-C1	6.78	120.52	107.72
2	A8	605	P8E	O6-C2-C1	6.78	120.52	107.72
2	AD	605	P8E	O6-C2-C1	6.78	120.52	107.72
2	AS	605	P8E	O6-C2-C1	6.77	120.49	107.72
2	AR	605	P8E	O6-C2-C1	6.76	120.48	107.72
2	AL	605	P8E	O6-C2-C1	6.76	120.48	107.72
2	AC	605	P8E	O6-C2-C1	6.75	120.45	107.72
2	AO	605	P8E	O6-C2-C1	6.73	120.43	107.72
2	A7	605	P8E	O6-C2-C1	6.72	120.40	107.72
2	AX	605	P8E	O6-C2-C1	6.69	120.35	107.72
2	A3	605	P8E	O6-C2-C1	6.69	120.34	107.72
2	AG	605	P8E	O6-C2-C1	6.68	120.33	107.72
2	A5	605	P8E	O6-C2-C1	6.67	120.31	107.72
2	AH	605	P8E	O6-C2-C1	6.67	120.31	107.72
2	AT	605	P8E	O6-C2-C1	6.66	120.29	107.72
2	A2	605	P8E	O6-C2-C1	6.64	120.26	107.72
2	AW	605	P8E	O6-C2-C1	6.64	120.26	107.72
2	AK	605	P8E	O6-C2-C1	6.64	120.26	107.72
2	AF	605	P8E	O6-C2-C1	6.64	120.25	107.72
2	A9	605	P8E	O6-C2-C1	6.63	120.23	107.72
2	AM	605	P8E	O6-C2-C1	6.63	120.23	107.72
2	AQ	605	P8E	O6-C2-C1	6.63	120.23	107.72
2	AV	601	P8E	O6-C2-C1	6.62	120.22	107.72
2	AP	605	P8E	O6-C2-C1	6.62	120.21	107.72
2	AA	605	P8E	O6-C2-C1	6.59	120.16	107.72
2	A6	605	P8E	O6-C2-C1	6.59	120.16	107.72
2	AB	601	P8E	O6-C2-C1	6.59	120.16	107.72
2	A2	601	P8E	O6-C2-C1	6.58	120.14	107.72
2	AA	601	P8E	O6-C2-C1	6.58	120.14	107.72
2	AU	605	P8E	O6-C2-C1	6.58	120.14	107.72
2	A4	605	P8E	O6-C2-C1	6.58	120.14	107.72
2	A1	605	P8E	O6-C2-C1	6.58	120.13	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AI	605	P8E	O6-C2-C1	6.58	120.13	107.72
2	AF	601	P8E	O6-C2-C1	6.57	120.13	107.72
2	AS	601	P8E	O6-C2-C1	6.57	120.13	107.72
2	AQ	601	P8E	O6-C2-C1	6.57	120.13	107.72
2	AC	601	P8E	O6-C2-C1	6.57	120.12	107.72
2	A1	601	P8E	O6-C2-C1	6.57	120.12	107.72
2	AB	605	P8E	O6-C2-C1	6.57	120.12	107.72
2	A8	601	P8E	O6-C2-C1	6.57	120.11	107.72
2	A4	601	P8E	O6-C2-C1	6.56	120.11	107.72
2	AO	601	P8E	O6-C2-C1	6.55	120.08	107.72
2	AT	601	P8E	O6-C2-C1	6.54	120.07	107.72
2	AJ	601	P8E	O6-C2-C1	6.54	120.07	107.72
2	AL	601	P8E	O6-C2-C1	6.54	120.06	107.72
2	AH	601	P8E	O6-C2-C1	6.54	120.06	107.72
2	AX	601	P8E	O6-C2-C1	6.54	120.06	107.72
2	A7	601	P8E	O6-C2-C1	6.54	120.06	107.72
2	AR	601	P8E	O6-C2-C1	6.54	120.06	107.72
2	AW	601	P8E	O6-C2-C1	6.54	120.06	107.72
2	AN	601	P8E	O6-C2-C1	6.53	120.05	107.72
2	AI	601	P8E	O6-C2-C1	6.53	120.05	107.72
2	AV	605	P8E	O6-C2-C1	6.53	120.05	107.72
2	A5	601	P8E	O6-C2-C1	6.53	120.05	107.72
2	AU	601	P8E	O6-C2-C1	6.53	120.04	107.72
2	AK	601	P8E	O6-C2-C1	6.52	120.03	107.72
2	AP	601	P8E	O6-C2-C1	6.52	120.03	107.72
2	A3	601	P8E	O6-C2-C1	6.51	120.01	107.72
2	AD	601	P8E	O6-C2-C1	6.51	120.01	107.72
2	AI	606	P8E	O6-C2-C1	6.51	120.00	107.72
2	A9	601	P8E	O6-C2-C1	6.51	120.00	107.72
2	A6	601	P8E	O6-C2-C1	6.50	120.00	107.72
2	AM	601	P8E	O6-C2-C1	6.50	120.00	107.72
2	AE	601	P8E	O6-C2-C1	6.49	119.97	107.72
2	AS	606	P8E	O6-C2-C1	6.49	119.97	107.72
2	AG	601	P8E	O6-C2-C1	6.48	119.95	107.72
2	AN	606	P8E	O6-C2-C1	6.42	119.84	107.72
2	AR	606	P8E	O6-C2-C1	6.42	119.83	107.72
2	AU	606	P8E	O6-C2-C1	6.42	119.83	107.72
2	AO	606	P8E	O6-C2-C1	6.41	119.82	107.72
2	AT	606	P8E	O6-C2-C1	6.41	119.82	107.72
2	AG	606	P8E	O6-C2-C1	6.40	119.81	107.72
2	AK	606	P8E	O6-C2-C1	6.40	119.80	107.72
2	AQ	606	P8E	O6-C2-C1	6.38	119.76	107.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AH	606	P8E	O6-C2-C1	6.35	119.70	107.72
2	AJ	606	P8E	O6-C2-C1	6.34	119.68	107.72
2	AW	606	P8E	O6-C2-C1	6.34	119.68	107.72
2	A4	606	P8E	O6-C2-C1	6.33	119.67	107.72
2	AL	606	P8E	O6-C2-C1	6.33	119.66	107.72
2	AM	606	P8E	O6-C2-C1	6.33	119.66	107.72
2	AC	606	P8E	O6-C2-C1	6.32	119.65	107.72
2	A6	606	P8E	O6-C2-C1	6.32	119.65	107.72
2	A9	606	P8E	O6-C2-C1	6.32	119.64	107.72
2	AA	606	P8E	O6-C2-C1	6.31	119.63	107.72
2	A2	606	P8E	O6-C2-C1	6.31	119.63	107.72
2	AF	606	P8E	O6-C2-C1	6.31	119.63	107.72
2	AD	606	P8E	O6-C2-C1	6.31	119.63	107.72
2	AE	606	P8E	O6-C2-C1	6.30	119.62	107.72
2	A1	606	P8E	O6-C2-C1	6.30	119.61	107.72
2	A7	606	P8E	O6-C2-C1	6.30	119.61	107.72
2	AP	606	P8E	O6-C2-C1	6.30	119.61	107.72
2	A8	606	P8E	O6-C2-C1	6.29	119.59	107.72
2	AX	606	P8E	O6-C2-C1	6.29	119.58	107.72
2	A3	606	P8E	O6-C2-C1	6.28	119.57	107.72
2	A5	606	P8E	O6-C2-C1	6.26	119.54	107.72
2	AV	606	P8E	O6-C2-C1	6.24	119.49	107.72
2	AB	606	P8E	O6-C2-C1	6.22	119.45	107.72
2	A1	603	P8E	O1B-C1-C2	2.87	120.18	112.71
2	AB	608	P8E	O1B-C1-C2	2.86	120.15	112.71
2	A8	608	P8E	O1B-C1-C2	2.86	120.15	112.71
2	A4	608	P8E	O1B-C1-C2	2.86	120.15	112.71
2	AV	608	P8E	O1B-C1-C2	2.86	120.15	112.71
2	A6	603	P8E	O1B-C1-C2	2.86	120.14	112.71
2	AP	603	P8E	O1B-C1-C2	2.86	120.14	112.71
2	A2	603	P8E	O1B-C1-C2	2.86	120.14	112.71
2	A2	608	P8E	O1B-C1-C2	2.85	120.13	112.71
2	AE	608	P8E	O1B-C1-C2	2.85	120.13	112.71
2	AO	606	P8E	O1B-C1-C2	2.85	120.13	112.71
2	AK	603	P8E	O1B-C1-C2	2.85	120.13	112.71
2	AG	603	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AJ	608	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AU	606	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AA	608	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AC	608	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AN	608	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AW	603	P8E	O1B-C1-C2	2.85	120.12	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AW	608	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AD	608	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AI	603	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AN	602	P8E	O1B-C1-C2	2.85	120.12	112.71
2	AF	603	P8E	O1B-C1-C2	2.85	120.12	112.71
2	A7	603	P8E	O1B-C1-C2	2.85	120.11	112.71
2	A9	603	P8E	O1B-C1-C2	2.85	120.11	112.71
2	A9	608	P8E	O1B-C1-C2	2.84	120.11	112.71
2	AC	603	P8E	O1B-C1-C2	2.84	120.11	112.71
2	AV	603	P8E	O1B-C1-C2	2.84	120.11	112.71
2	AS	608	P8E	O1B-C1-C2	2.84	120.11	112.71
2	A5	608	P8E	O1B-C1-C2	2.84	120.11	112.71
2	AT	603	P8E	O1B-C1-C2	2.84	120.11	112.71
2	AS	603	P8E	O1B-C1-C2	2.84	120.10	112.71
2	AT	602	P8E	O1B-C1-C2	2.84	120.10	112.71
2	A3	603	P8E	O1B-C1-C2	2.84	120.10	112.71
2	AS	606	P8E	O1B-C1-C2	2.84	120.10	112.71
2	A3	608	P8E	O1B-C1-C2	2.84	120.10	112.71
2	A5	606	P8E	O1B-C1-C2	2.84	120.10	112.71
2	AG	602	P8E	O1B-C1-C2	2.84	120.10	112.71
2	AD	603	P8E	O1B-C1-C2	2.84	120.10	112.71
2	AP	606	P8E	O1B-C1-C2	2.84	120.10	112.71
2	AR	608	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AU	603	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AX	603	P8E	O1B-C1-C2	2.84	120.09	112.71
2	A4	603	P8E	O1B-C1-C2	2.84	120.09	112.71
2	A1	608	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AH	603	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AL	608	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AT	608	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AI	608	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AA	603	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AN	603	P8E	O1B-C1-C2	2.84	120.09	112.71
2	AQ	603	P8E	O1B-C1-C2	2.84	120.08	112.71
2	A8	603	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AI	606	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AQ	608	P8E	O1B-C1-C2	2.83	120.08	112.71
2	A8	606	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AK	608	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AR	603	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AH	608	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AQ	602	P8E	O1B-C1-C2	2.83	120.08	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AM	602	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AF	608	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AE	603	P8E	O1B-C1-C2	2.83	120.08	112.71
2	AU	608	P8E	O1B-C1-C2	2.83	120.08	112.71
2	A5	602	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AB	603	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AK	606	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AX	608	P8E	O1B-C1-C2	2.83	120.07	112.71
2	A6	608	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AR	602	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AM	608	P8E	O1B-C1-C2	2.83	120.07	112.71
2	A7	608	P8E	O1B-C1-C2	2.83	120.07	112.71
2	A7	606	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AG	608	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AI	602	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AO	603	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AN	606	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AX	606	P8E	O1B-C1-C2	2.83	120.07	112.71
2	AC	606	P8E	O1B-C1-C2	2.83	120.06	112.71
2	AH	602	P8E	O1B-C1-C2	2.83	120.06	112.71
2	AO	608	P8E	O1B-C1-C2	2.82	120.06	112.71
2	AM	603	P8E	O1B-C1-C2	2.82	120.06	112.71
2	AJ	606	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AR	606	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AG	606	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AJ	603	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AL	606	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AK	602	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AU	602	P8E	O1B-C1-C2	2.82	120.05	112.71
2	AT	606	P8E	O1B-C1-C2	2.82	120.04	112.71
2	AF	602	P8E	O1B-C1-C2	2.82	120.04	112.71
2	A3	606	P8E	O1B-C1-C2	2.82	120.04	112.71
2	AP	608	P8E	O1B-C1-C2	2.82	120.04	112.71
2	A6	602	P8E	O1B-C1-C2	2.82	120.04	112.71
2	A1	602	P8E	O1B-C1-C2	2.82	120.04	112.71
2	AO	602	P8E	O1B-C1-C2	2.82	120.03	112.71
2	A5	603	P8E	O1B-C1-C2	2.82	120.03	112.71
2	A9	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	AL	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	AP	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	AS	602	P8E	O1B-C1-C2	2.81	120.03	112.71
2	A4	602	P8E	O1B-C1-C2	2.81	120.02	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AJ	602	P8E	O1B-C1-C2	2.81	120.02	112.71
2	AD	606	P8E	O1B-C1-C2	2.81	120.02	112.71
2	A2	602	P8E	O1B-C1-C2	2.81	120.02	112.71
2	AL	603	P8E	O1B-C1-C2	2.81	120.01	112.71
2	A8	602	P8E	O1B-C1-C2	2.81	120.01	112.71
2	AC	602	P8E	O1B-C1-C2	2.81	120.01	112.71
2	AV	602	P8E	O1B-C1-C2	2.81	120.01	112.71
2	AE	606	P8E	O1B-C1-C2	2.81	120.01	112.71
2	AB	602	P8E	O1B-C1-C2	2.80	120.00	112.71
2	AA	602	P8E	O1B-C1-C2	2.80	120.00	112.71
2	AH	606	P8E	O1B-C1-C2	2.80	120.00	112.71
2	AW	602	P8E	O1B-C1-C2	2.80	120.00	112.71
2	AB	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	AQ	606	P8E	O1B-C1-C2	2.80	119.99	112.71
2	AV	606	P8E	O1B-C1-C2	2.80	119.98	112.71
2	AE	602	P8E	O1B-C1-C2	2.80	119.98	112.71
2	A6	606	P8E	O1B-C1-C2	2.79	119.97	112.71
2	AX	602	P8E	O1B-C1-C2	2.79	119.97	112.71
2	AF	609	P8E	O1B-C1-C2	2.79	119.97	112.71
2	AD	609	P8E	O1B-C1-C2	2.79	119.97	112.71
2	AF	606	P8E	O1B-C1-C2	2.79	119.97	112.71
2	AN	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	AG	609	P8E	O1B-C1-C2	2.79	119.96	112.71
2	AM	606	P8E	O1B-C1-C2	2.79	119.96	112.71
2	A6	609	P8E	O1B-C1-C2	2.79	119.96	112.71
2	AD	602	P8E	O1B-C1-C2	2.79	119.96	112.71
2	AU	601	P8E	O1B-C1-C2	2.79	119.96	112.71
2	A3	609	P8E	O1B-C1-C2	2.79	119.95	112.71
2	A1	606	P8E	O1B-C1-C2	2.78	119.95	112.71
2	AH	601	P8E	O1B-C1-C2	2.78	119.95	112.71
2	AM	609	P8E	O1B-C1-C2	2.78	119.95	112.71
2	AT	609	P8E	O1B-C1-C2	2.78	119.95	112.71
2	AA	606	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AK	609	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AR	601	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AX	609	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AG	601	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AE	609	P8E	O1B-C1-C2	2.78	119.94	112.71
2	A3	602	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AU	609	P8E	O1B-C1-C2	2.78	119.94	112.71
2	A7	602	P8E	O1B-C1-C2	2.78	119.94	112.71
2	AK	601	P8E	O1B-C1-C2	2.78	119.94	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A7	609	P8E	O1B-C1-C2	2.78	119.93	112.71
2	A9	606	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AQ	601	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AR	609	P8E	O1B-C1-C2	2.78	119.93	112.71
2	A4	606	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AC	609	P8E	O1B-C1-C2	2.78	119.93	112.71
2	A2	606	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AP	609	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AT	601	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AI	609	P8E	O1B-C1-C2	2.78	119.93	112.71
2	AS	609	P8E	O1B-C1-C2	2.77	119.93	112.71
2	AH	609	P8E	O1B-C1-C2	2.77	119.93	112.71
2	A9	609	P8E	O1B-C1-C2	2.77	119.92	112.71
2	AP	601	P8E	O1B-C1-C2	2.77	119.92	112.71
2	AQ	609	P8E	O1B-C1-C2	2.77	119.92	112.71
2	A6	601	P8E	O1B-C1-C2	2.77	119.92	112.71
2	AA	609	P8E	O1B-C1-C2	2.77	119.92	112.71
2	AM	601	P8E	O1B-C1-C2	2.77	119.92	112.71
2	AN	609	P8E	O1B-C1-C2	2.77	119.92	112.71
2	AF	601	P8E	O1B-C1-C2	2.77	119.91	112.71
2	AJ	609	P8E	O1B-C1-C2	2.77	119.91	112.71
2	AO	601	P8E	O1B-C1-C2	2.77	119.91	112.71
2	AI	601	P8E	O1B-C1-C2	2.77	119.91	112.71
2	A9	601	P8E	O1B-C1-C2	2.77	119.91	112.71
2	AB	609	P8E	O1B-C1-C2	2.77	119.91	112.71
2	A1	609	P8E	O1B-C1-C2	2.77	119.90	112.71
2	AW	606	P8E	O1B-C1-C2	2.77	119.90	112.71
2	AO	609	P8E	O1B-C1-C2	2.76	119.90	112.71
2	A1	601	P8E	O1B-C1-C2	2.76	119.90	112.71
2	AL	609	P8E	O1B-C1-C2	2.76	119.90	112.71
2	AS	601	P8E	O1B-C1-C2	2.76	119.90	112.71
2	A5	609	P8E	O1B-C1-C2	2.76	119.90	112.71
2	A5	601	P8E	O1B-C1-C2	2.76	119.90	112.71
2	A8	601	P8E	O1B-C1-C2	2.76	119.90	112.71
2	AW	609	P8E	O1B-C1-C2	2.76	119.89	112.71
2	A8	609	P8E	O1B-C1-C2	2.76	119.89	112.71
2	AL	601	P8E	O1B-C1-C2	2.76	119.89	112.71
2	AV	609	P8E	O1B-C1-C2	2.76	119.89	112.71
2	A4	609	P8E	O1B-C1-C2	2.76	119.88	112.71
2	A4	601	P8E	O1B-C1-C2	2.76	119.88	112.71
2	A7	601	P8E	O1B-C1-C2	2.76	119.88	112.71
2	AC	601	P8E	O1B-C1-C2	2.76	119.88	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AE	601	P8E	O1B-C1-C2	2.76	119.88	112.71
2	AJ	601	P8E	O1B-C1-C2	2.76	119.88	112.71
2	A2	609	P8E	O1B-C1-C2	2.75	119.87	112.71
2	AD	601	P8E	O1B-C1-C2	2.75	119.87	112.71
2	A2	601	P8E	O1B-C1-C2	2.75	119.87	112.71
2	AX	601	P8E	O1B-C1-C2	2.75	119.86	112.71
2	AA	601	P8E	O1B-C1-C2	2.75	119.86	112.71
2	A3	601	P8E	O1B-C1-C2	2.75	119.86	112.71
2	A3	605	P8E	O1B-C1-C2	2.74	119.84	112.71
2	AW	601	P8E	O1B-C1-C2	2.74	119.84	112.71
2	AB	601	P8E	O1B-C1-C2	2.74	119.83	112.71
2	AE	605	P8E	O1B-C1-C2	2.73	119.82	112.71
2	AX	605	P8E	O1B-C1-C2	2.72	119.79	112.71
2	AD	605	P8E	O1B-C1-C2	2.72	119.79	112.71
2	A7	605	P8E	O1B-C1-C2	2.72	119.79	112.71
2	AP	605	P8E	O1B-C1-C2	2.72	119.78	112.71
2	AV	601	P8E	O1B-C1-C2	2.72	119.78	112.71
2	AL	605	P8E	O1B-C1-C2	2.72	119.78	112.71
2	AU	605	P8E	O1B-C1-C2	2.72	119.78	112.71
2	AC	605	P8E	O1B-C1-C2	2.71	119.77	112.71
2	AJ	605	P8E	O1B-C1-C2	2.71	119.76	112.71
2	A8	605	P8E	O1B-C1-C2	2.70	119.74	112.71
2	A5	605	P8E	O1B-C1-C2	2.70	119.73	112.71
2	AS	605	P8E	O1B-C1-C2	2.70	119.72	112.71
2	AG	605	P8E	O1B-C1-C2	2.69	119.70	112.71
2	AS	607	P8E	O1B-C1-C2	2.69	119.70	112.71
2	AV	605	P8E	O1B-C1-C2	2.69	119.70	112.71
2	AO	605	P8E	O1B-C1-C2	2.69	119.70	112.71
2	AB	607	P8E	O1B-C1-C2	2.69	119.69	112.71
2	AR	605	P8E	O1B-C1-C2	2.68	119.69	112.71
2	A8	607	P8E	O1B-C1-C2	2.68	119.68	112.71
2	A4	607	P8E	O1B-C1-C2	2.68	119.68	112.71
2	AW	607	P8E	O1B-C1-C2	2.68	119.67	112.71
2	AQ	604	P8E	O1B-C1-C2	2.68	119.67	112.71
2	AH	604	P8E	O1B-C1-C2	2.67	119.67	112.71
2	A1	607	P8E	O1B-C1-C2	2.67	119.67	112.71
2	AB	604	P8E	O1B-C1-C2	2.67	119.67	112.71
2	A6	607	P8E	O1B-C1-C2	2.67	119.66	112.71
2	AA	607	P8E	O1B-C1-C2	2.67	119.66	112.71
2	AK	605	P8E	O1B-C1-C2	2.67	119.66	112.71
2	AV	607	P8E	O1B-C1-C2	2.67	119.66	112.71
2	AE	607	P8E	O1B-C1-C2	2.67	119.65	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AT	605	P8E	O1B-C1-C2	2.67	119.65	112.71
2	A2	604	P8E	O1B-C1-C2	2.67	119.65	112.71
2	AF	604	P8E	O1B-C1-C2	2.67	119.65	112.71
2	A3	607	P8E	O1B-C1-C2	2.67	119.65	112.71
2	AD	607	P8E	O1B-C1-C2	2.66	119.64	112.71
2	AX	607	P8E	O1B-C1-C2	2.66	119.64	112.71
2	A2	607	P8E	O1B-C1-C2	2.66	119.63	112.71
2	A9	604	P8E	O1B-C1-C2	2.66	119.63	112.71
2	A7	607	P8E	O1B-C1-C2	2.66	119.63	112.71
2	A9	607	P8E	O1B-C1-C2	2.66	119.63	112.71
2	A5	607	P8E	O1B-C1-C2	2.66	119.63	112.71
2	AM	604	P8E	O1B-C1-C2	2.66	119.63	112.71
2	A4	604	P8E	O1B-C1-C2	2.66	119.63	112.71
2	A2	605	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AA	604	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AI	607	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AN	604	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AI	605	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AJ	607	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AL	607	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AK	607	P8E	O1B-C1-C2	2.66	119.62	112.71
2	A6	604	P8E	O1B-C1-C2	2.66	119.62	112.71
2	AB	605	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AF	605	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AH	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AR	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AF	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AM	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AT	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AC	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AG	604	P8E	O1B-C1-C2	2.65	119.61	112.71
2	A1	604	P8E	O1B-C1-C2	2.65	119.61	112.71
2	A1	605	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AO	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AR	604	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AG	607	P8E	O1B-C1-C2	2.65	119.61	112.71
2	AU	607	P8E	O1B-C1-C2	2.65	119.60	112.71
2	AI	604	P8E	O1B-C1-C2	2.65	119.59	112.71
2	A9	605	P8E	O1B-C1-C2	2.65	119.59	112.71
2	AW	604	P8E	O1B-C1-C2	2.65	119.59	112.71
2	A6	605	P8E	O1B-C1-C2	2.64	119.58	112.71
2	AN	605	P8E	O1B-C1-C2	2.64	119.58	112.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AA	605	P8E	O1B-C1-C2	2.64	119.58	112.71
2	A4	605	P8E	O1B-C1-C2	2.64	119.58	112.71
2	AQ	607	P8E	O1B-C1-C2	2.64	119.58	112.71
2	AP	607	P8E	O1B-C1-C2	2.64	119.58	112.71
2	AM	605	P8E	O1B-C1-C2	2.64	119.57	112.71
2	AN	607	P8E	O1B-C1-C2	2.64	119.57	112.71
2	AQ	605	P8E	O1B-C1-C2	2.63	119.56	112.71
2	A7	604	P8E	O1B-C1-C2	2.63	119.56	112.71
2	AK	604	P8E	O1B-C1-C2	2.63	119.55	112.71
2	AH	605	P8E	O1B-C1-C2	2.63	119.54	112.71
2	AX	604	P8E	O1B-C1-C2	2.62	119.54	112.71
2	A5	604	P8E	O1B-C1-C2	2.62	119.53	112.71
2	AW	605	P8E	O1B-C1-C2	2.62	119.52	112.71
2	AT	604	P8E	O1B-C1-C2	2.62	119.52	112.71
2	AS	604	P8E	O1B-C1-C2	2.62	119.52	112.71
2	AP	604	P8E	O1B-C1-C2	2.61	119.51	112.71
2	A8	604	P8E	O1B-C1-C2	2.61	119.50	112.71
2	AE	604	P8E	O1B-C1-C2	2.61	119.50	112.71
2	AL	604	P8E	O1B-C1-C2	2.61	119.50	112.71
2	AU	604	P8E	O1B-C1-C2	2.61	119.49	112.71
2	A3	604	P8E	O1B-C1-C2	2.60	119.48	112.71
2	AJ	604	P8E	O1B-C1-C2	2.60	119.48	112.71
2	AD	604	P8E	O1B-C1-C2	2.60	119.47	112.71
2	AO	604	P8E	O1B-C1-C2	2.60	119.46	112.71
2	AC	604	P8E	O1B-C1-C2	2.59	119.44	112.71
2	AK	602	P8E	O6-C2-C3	2.57	114.01	110.56
2	AL	602	P8E	O6-C2-C3	2.55	113.99	110.56
2	AR	602	P8E	O6-C2-C3	2.54	113.97	110.56
2	AP	602	P8E	O6-C2-C3	2.53	113.95	110.56
2	A8	602	P8E	O6-C2-C3	2.53	113.95	110.56
2	AX	602	P8E	O6-C2-C3	2.52	113.94	110.56
2	AS	602	P8E	O6-C2-C3	2.52	113.94	110.56
2	AI	602	P8E	O6-C2-C3	2.52	113.94	110.56
2	A5	602	P8E	O6-C2-C3	2.51	113.92	110.56
2	A7	602	P8E	O6-C2-C3	2.50	113.92	110.56
2	A3	602	P8E	O6-C2-C3	2.49	113.91	110.56
2	AO	602	P8E	O6-C2-C3	2.49	113.91	110.56
2	AV	604	P8E	O1B-C1-C2	2.48	119.17	112.71
2	AC	602	P8E	O6-C2-C3	2.48	113.89	110.56
2	AU	602	P8E	O6-C2-C3	2.48	113.89	110.56
2	AD	602	P8E	O6-C2-C3	2.46	113.86	110.56
2	AJ	602	P8E	O6-C2-C3	2.45	113.86	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AE	602	P8E	O6-C2-C3	2.45	113.85	110.56
2	AG	602	P8E	O6-C2-C3	2.44	113.84	110.56
2	AT	602	P8E	O6-C2-C3	2.44	113.84	110.56
2	A1	608	P8E	C9-C8-C7	-2.40	108.86	112.66
2	A6	608	P8E	C9-C8-C7	-2.40	108.86	112.66
2	A2	608	P8E	C9-C8-C7	-2.40	108.87	112.66
2	AW	608	P8E	C9-C8-C7	-2.39	108.88	112.66
2	AB	608	P8E	C9-C8-C7	-2.39	108.88	112.66
2	AH	602	P8E	O6-C2-C3	2.39	113.77	110.56
2	A6	602	P8E	O6-C2-C3	2.38	113.76	110.56
2	AF	608	P8E	C9-C8-C7	-2.38	108.90	112.66
2	A9	608	P8E	C9-C8-C7	-2.38	108.91	112.66
2	A4	608	P8E	C9-C8-C7	-2.38	108.91	112.66
2	AM	608	P8E	C9-C8-C7	-2.37	108.92	112.66
2	AA	608	P8E	C9-C8-C7	-2.36	108.93	112.66
2	AQ	608	P8E	C9-C8-C7	-2.35	108.94	112.66
2	A7	608	P8E	C9-C8-C7	-2.35	108.94	112.66
2	AH	608	P8E	C9-C8-C7	-2.35	108.94	112.66
2	AV	608	P8E	C9-C8-C7	-2.35	108.95	112.66
2	AN	602	P8E	O6-C2-C3	2.34	113.71	110.56
2	AV	602	P8E	O6-C2-C3	2.34	113.71	110.56
2	A4	602	P8E	O6-C2-C3	2.34	113.70	110.56
2	AX	608	P8E	C9-C8-C7	-2.33	108.98	112.66
2	AN	608	P8E	C9-C8-C7	-2.33	108.98	112.66
2	A3	608	P8E	C9-C8-C7	-2.33	108.98	112.66
2	AA	602	P8E	O6-C2-C3	2.32	113.68	110.56
2	AX	604	P8E	C9-C8-C7	-2.32	108.99	112.66
2	A9	602	P8E	O6-C2-C3	2.32	113.68	110.56
2	A3	604	P8E	C9-C8-C7	-2.32	108.99	112.66
2	AM	602	P8E	O6-C2-C3	2.32	113.67	110.56
2	AJ	604	P8E	C9-C8-C7	-2.32	109.00	112.66
2	AE	604	P8E	C9-C8-C7	-2.32	109.00	112.66
2	AW	602	P8E	O6-C2-C3	2.31	113.67	110.56
2	AD	608	P8E	C9-C8-C7	-2.31	109.01	112.66
2	A7	604	P8E	C9-C8-C7	-2.31	109.02	112.66
2	AE	608	P8E	C9-C8-C7	-2.31	109.02	112.66
2	AT	608	P8E	C9-C8-C7	-2.31	109.02	112.66
2	AC	604	P8E	C9-C8-C7	-2.30	109.02	112.66
2	AR	608	P8E	C9-C8-C7	-2.30	109.02	112.66
2	AO	604	P8E	C9-C8-C7	-2.30	109.02	112.66
2	AU	606	P8E	C9-C8-C7	-2.30	109.03	112.66
2	AG	608	P8E	C9-C8-C7	-2.30	109.03	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AF	602	P8E	O6-C2-C3	2.29	113.64	110.56
2	AQ	602	P8E	O6-C2-C3	2.29	113.64	110.56
2	A5	604	P8E	C9-C8-C7	-2.29	109.04	112.66
2	AB	602	P8E	O6-C2-C3	2.29	113.64	110.56
2	A8	604	P8E	C9-C8-C7	-2.29	109.05	112.66
2	AL	604	P8E	C9-C8-C7	-2.29	109.05	112.66
2	AI	608	P8E	C9-C8-C7	-2.28	109.06	112.66
2	AT	606	P8E	C9-C8-C7	-2.28	109.06	112.66
2	AO	608	P8E	C9-C8-C7	-2.27	109.07	112.66
2	AN	606	P8E	C9-C8-C7	-2.27	109.08	112.66
2	AG	606	P8E	C9-C8-C7	-2.27	109.08	112.66
2	AU	604	P8E	C9-C8-C7	-2.27	109.08	112.66
2	AK	608	P8E	C9-C8-C7	-2.26	109.09	112.66
2	AS	604	P8E	C9-C8-C7	-2.26	109.09	112.66
2	AS	608	P8E	C9-C8-C7	-2.26	109.10	112.66
2	A6	606	P8E	C9-C8-C7	-2.26	109.10	112.66
2	AJ	608	P8E	C9-C8-C7	-2.26	109.10	112.66
2	AM	606	P8E	C9-C8-C7	-2.25	109.10	112.66
2	AP	604	P8E	C9-C8-C7	-2.25	109.10	112.66
2	AQ	606	P8E	C9-C8-C7	-2.25	109.11	112.66
2	AR	606	P8E	C9-C8-C7	-2.25	109.11	112.66
2	AC	608	P8E	C9-C8-C7	-2.25	109.11	112.66
2	A5	608	P8E	C9-C8-C7	-2.24	109.12	112.66
2	A8	608	P8E	C9-C8-C7	-2.24	109.12	112.66
2	AH	606	P8E	C9-C8-C7	-2.24	109.12	112.66
2	AD	606	P8E	C9-C8-C7	-2.24	109.13	112.66
2	AP	608	P8E	C9-C8-C7	-2.24	109.13	112.66
2	AL	608	P8E	C9-C8-C7	-2.23	109.13	112.66
2	A3	606	P8E	C9-C8-C7	-2.23	109.13	112.66
2	AR	604	P8E	C9-C8-C7	-2.23	109.13	112.66
2	AK	604	P8E	C9-C8-C7	-2.23	109.13	112.66
2	AL	606	P8E	C9-C8-C7	-2.23	109.13	112.66
2	A8	606	P8E	C9-C8-C7	-2.23	109.13	112.66
2	AK	606	P8E	C9-C8-C7	-2.23	109.14	112.66
2	AU	608	P8E	C9-C8-C7	-2.23	109.14	112.66
2	AF	606	P8E	C9-C8-C7	-2.23	109.14	112.66
2	AA	606	P8E	C9-C8-C7	-2.22	109.15	112.66
2	AC	606	P8E	C9-C8-C7	-2.22	109.15	112.66
2	AP	606	P8E	C9-C8-C7	-2.22	109.15	112.66
2	A2	602	P8E	O6-C2-C3	2.22	113.54	110.56
2	A4	606	P8E	C9-C8-C7	-2.22	109.15	112.66
2	AI	604	P8E	C9-C8-C7	-2.22	109.15	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AX	604	P8E	O6-C2-C3	2.22	113.54	110.56
2	A6	609	P8E	C9-C8-C7	-2.22	109.15	112.66
2	AJ	606	P8E	C9-C8-C7	-2.22	109.15	112.66
2	AI	609	P8E	C9-C8-C7	-2.22	109.16	112.66
2	A1	602	P8E	O6-C2-C3	2.22	113.54	110.56
2	A7	604	P8E	O6-C2-C3	2.22	113.54	110.56
2	AG	604	P8E	C9-C8-C7	-2.22	109.16	112.66
2	A5	606	P8E	C9-C8-C7	-2.22	109.16	112.66
2	A1	606	P8E	C9-C8-C7	-2.21	109.16	112.66
2	AV	609	P8E	C9-C8-C7	-2.21	109.16	112.66
2	AF	604	P8E	C9-C8-C7	-2.21	109.17	112.66
2	AD	604	P8E	O6-C2-C3	2.21	113.53	110.56
2	AV	606	P8E	C9-C8-C7	-2.21	109.17	112.66
2	AE	606	P8E	C9-C8-C7	-2.21	109.17	112.66
2	AF	609	P8E	C9-C8-C7	-2.21	109.17	112.66
2	AH	609	P8E	C9-C8-C7	-2.21	109.17	112.66
2	AO	606	P8E	C9-C8-C7	-2.21	109.17	112.66
2	A5	609	P8E	C9-C8-C7	-2.21	109.18	112.66
2	AT	604	P8E	C9-C8-C7	-2.21	109.18	112.66
2	AI	607	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AN	607	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AS	609	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AT	607	P8E	C9-C8-C7	-2.20	109.18	112.66
2	A2	606	P8E	C9-C8-C7	-2.20	109.18	112.66
2	A7	606	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AH	607	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AI	606	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AK	609	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AB	606	P8E	C9-C8-C7	-2.20	109.18	112.66
2	AU	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AR	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AT	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	A9	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AG	607	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AM	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AX	606	P8E	C9-C8-C7	-2.20	109.19	112.66
2	A2	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AJ	607	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AG	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AO	609	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AS	606	P8E	C9-C8-C7	-2.20	109.19	112.66
2	AR	607	P8E	C9-C8-C7	-2.19	109.19	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A7	609	P8E	C9-C8-C7	-2.19	109.19	112.66
2	AN	604	P8E	C9-C8-C7	-2.19	109.19	112.66
2	AU	607	P8E	C9-C8-C7	-2.19	109.19	112.66
2	AW	606	P8E	C9-C8-C7	-2.19	109.19	112.66
2	AP	607	P8E	C9-C8-C7	-2.19	109.19	112.66
2	AB	609	P8E	C9-C8-C7	-2.19	109.20	112.66
2	AQ	609	P8E	C9-C8-C7	-2.19	109.20	112.66
2	A1	609	P8E	C9-C8-C7	-2.19	109.20	112.66
2	AP	609	P8E	C9-C8-C7	-2.19	109.20	112.66
2	AW	609	P8E	C9-C8-C7	-2.19	109.20	112.66
2	A3	607	P8E	C9-C8-C7	-2.19	109.20	112.66
2	A4	604	P8E	C9-C8-C7	-2.19	109.20	112.66
2	AQ	607	P8E	C9-C8-C7	-2.19	109.21	112.66
2	A3	609	P8E	C9-C8-C7	-2.19	109.21	112.66
2	AL	607	P8E	C9-C8-C7	-2.19	109.21	112.66
2	A7	607	P8E	C9-C8-C7	-2.18	109.21	112.66
2	A8	607	P8E	C9-C8-C7	-2.18	109.21	112.66
2	AE	607	P8E	C9-C8-C7	-2.18	109.21	112.66
2	AC	607	P8E	C9-C8-C7	-2.18	109.21	112.66
2	A4	609	P8E	C9-C8-C7	-2.18	109.21	112.66
2	AK	607	P8E	C9-C8-C7	-2.18	109.21	112.66
2	A5	607	P8E	C9-C8-C7	-2.18	109.22	112.66
2	AH	604	P8E	C9-C8-C7	-2.18	109.22	112.66
2	AO	607	P8E	C9-C8-C7	-2.18	109.22	112.66
2	A1	607	P8E	C9-C8-C7	-2.18	109.22	112.66
2	AD	607	P8E	C9-C8-C7	-2.18	109.22	112.66
2	AN	609	P8E	C9-C8-C7	-2.18	109.22	112.66
2	A9	606	P8E	C9-C8-C7	-2.18	109.22	112.66
2	A3	604	P8E	O6-C2-C3	2.18	113.48	110.56
2	A2	607	P8E	C9-C8-C7	-2.18	109.22	112.66
2	AF	607	P8E	C9-C8-C7	-2.17	109.23	112.66
2	AM	604	P8E	C9-C8-C7	-2.17	109.23	112.66
2	A8	609	P8E	C9-C8-C7	-2.17	109.23	112.66
2	AX	607	P8E	C9-C8-C7	-2.17	109.23	112.66
2	AC	604	P8E	O6-C2-C3	2.17	113.47	110.56
2	A6	604	P8E	C9-C8-C7	-2.17	109.24	112.66
2	AB	604	P8E	C9-C8-C7	-2.17	109.24	112.66
2	AW	604	P8E	C9-C8-C7	-2.17	109.24	112.66
2	AC	609	P8E	C9-C8-C7	-2.17	109.24	112.66
2	AJ	609	P8E	C9-C8-C7	-2.16	109.24	112.66
2	A8	602	P8E	C9-C8-C7	-2.16	109.24	112.66
2	AM	607	P8E	C9-C8-C7	-2.16	109.24	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AX	609	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AA	609	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AL	609	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AQ	604	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AD	609	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AL	602	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AE	604	P8E	O6-C2-C3	2.16	113.45	110.56
2	A5	602	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AS	607	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AE	609	P8E	C9-C8-C7	-2.16	109.25	112.66
2	AO	602	P8E	C9-C8-C7	-2.15	109.26	112.66
2	A6	607	P8E	C9-C8-C7	-2.15	109.26	112.66
2	A9	604	P8E	C9-C8-C7	-2.15	109.26	112.66
2	AW	607	P8E	C9-C8-C7	-2.15	109.26	112.66
2	AA	604	P8E	C9-C8-C7	-2.15	109.27	112.66
2	A6	603	P8E	C9-C8-C7	-2.15	109.27	112.66
2	A9	607	P8E	C9-C8-C7	-2.15	109.27	112.66
2	AJ	602	P8E	C9-C8-C7	-2.15	109.27	112.66
2	AU	602	P8E	C9-C8-C7	-2.15	109.27	112.66
2	AG	603	P8E	C9-C8-C7	-2.15	109.27	112.66
2	A4	607	P8E	C9-C8-C7	-2.14	109.27	112.66
2	AM	603	P8E	C9-C8-C7	-2.14	109.27	112.66
2	AI	603	P8E	C9-C8-C7	-2.14	109.28	112.66
2	AR	603	P8E	C9-C8-C7	-2.14	109.28	112.66
2	AR	602	P8E	C9-C8-C7	-2.14	109.28	112.66
2	AS	602	P8E	C9-C8-C7	-2.14	109.28	112.66
2	AJ	604	P8E	O6-C2-C3	2.14	113.43	110.56
2	AA	607	P8E	C9-C8-C7	-2.14	109.29	112.66
2	AT	603	P8E	C9-C8-C7	-2.14	109.29	112.66
2	AS	601	P8E	C9-C8-C7	-2.14	109.29	112.66
2	AK	602	P8E	C9-C8-C7	-2.13	109.29	112.66
2	A2	604	P8E	C9-C8-C7	-2.13	109.29	112.66
2	AP	603	P8E	C9-C8-C7	-2.13	109.29	112.66
2	AK	601	P8E	C9-C8-C7	-2.13	109.29	112.66
2	A1	604	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AB	607	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AN	603	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AQ	603	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AG	602	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AD	604	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AP	602	P8E	C9-C8-C7	-2.13	109.30	112.66
2	AB	603	P8E	C9-C8-C7	-2.12	109.31	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AH	603	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AI	602	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AT	602	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AI	601	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AV	604	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AF	603	P8E	C9-C8-C7	-2.12	109.31	112.66
2	A1	603	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AA	603	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AV	607	P8E	C9-C8-C7	-2.12	109.31	112.66
2	AU	601	P8E	C9-C8-C7	-2.12	109.32	112.66
2	AS	603	P8E	C9-C8-C7	-2.12	109.32	112.66
2	A2	603	P8E	C9-C8-C7	-2.12	109.32	112.66
2	A9	603	P8E	C9-C8-C7	-2.11	109.32	112.66
2	AO	603	P8E	C9-C8-C7	-2.11	109.32	112.66
2	AE	602	P8E	C9-C8-C7	-2.11	109.32	112.66
2	AX	602	P8E	C9-C8-C7	-2.11	109.32	112.66
2	AR	601	P8E	C9-C8-C7	-2.11	109.33	112.66
2	AU	603	P8E	C9-C8-C7	-2.11	109.33	112.66
2	A7	602	P8E	C9-C8-C7	-2.11	109.33	112.66
2	A3	602	P8E	C9-C8-C7	-2.11	109.33	112.66
2	A8	604	P8E	O6-C2-C3	2.11	113.39	110.56
2	A8	601	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AC	602	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AO	601	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AP	601	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AD	602	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AF	602	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AV	603	P8E	C9-C8-C7	-2.10	109.34	112.66
2	AX	601	P8E	C9-C8-C7	-2.10	109.34	112.66
2	A6	602	P8E	C9-C8-C7	-2.10	109.35	112.66
2	AG	601	P8E	C9-C8-C7	-2.10	109.35	112.66
2	AH	602	P8E	C9-C8-C7	-2.10	109.35	112.66
2	AI	605	P8E	C9-C8-C7	-2.10	109.35	112.66
2	AQ	602	P8E	C9-C8-C7	-2.10	109.35	112.66
2	AK	603	P8E	C9-C8-C7	-2.09	109.35	112.66
2	A5	601	P8E	C9-C8-C7	-2.09	109.35	112.66
2	A5	603	P8E	C9-C8-C7	-2.09	109.35	112.66
2	AL	604	P8E	O6-C2-C3	2.09	113.37	110.56
2	A4	603	P8E	C9-C8-C7	-2.09	109.35	112.66
2	AN	602	P8E	C9-C8-C7	-2.09	109.35	112.66
2	AW	603	P8E	C9-C8-C7	-2.09	109.35	112.66
2	AJ	601	P8E	C9-C8-C7	-2.09	109.36	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AL	603	P8E	C9-C8-C7	-2.09	109.36	112.66
2	AM	601	P8E	C9-C8-C7	-2.09	109.36	112.66
2	A8	603	P8E	C9-C8-C7	-2.09	109.36	112.66
2	AL	601	P8E	C9-C8-C7	-2.09	109.36	112.66
2	A3	601	P8E	C9-C8-C7	-2.09	109.37	112.66
2	AE	601	P8E	C9-C8-C7	-2.08	109.37	112.66
2	A7	601	P8E	C9-C8-C7	-2.08	109.37	112.66
2	AC	601	P8E	C9-C8-C7	-2.08	109.37	112.66
2	AD	601	P8E	C9-C8-C7	-2.08	109.37	112.66
2	AF	601	P8E	C9-C8-C7	-2.08	109.38	112.66
2	AE	603	P8E	C9-C8-C7	-2.08	109.38	112.66
2	A5	604	P8E	O6-C2-C3	2.07	113.34	110.56
2	AQ	601	P8E	C9-C8-C7	-2.07	109.38	112.66
2	AJ	603	P8E	C9-C8-C7	-2.07	109.39	112.66
2	A6	601	P8E	C9-C8-C7	-2.07	109.39	112.66
2	AM	602	P8E	C9-C8-C7	-2.07	109.39	112.66
2	AD	603	P8E	C9-C8-C7	-2.07	109.39	112.66
2	A9	602	P8E	C9-C8-C7	-2.07	109.39	112.66
2	AC	603	P8E	C9-C8-C7	-2.07	109.40	112.66
2	AH	601	P8E	C9-C8-C7	-2.06	109.40	112.66
2	A2	602	P8E	C9-C8-C7	-2.06	109.40	112.66
2	A7	603	P8E	C9-C8-C7	-2.06	109.41	112.66
2	A9	601	P8E	C9-C8-C7	-2.06	109.41	112.66
2	AN	601	P8E	C9-C8-C7	-2.06	109.41	112.66
2	A1	605	P8E	C9-C8-C7	-2.06	109.41	112.66
2	AB	602	P8E	C9-C8-C7	-2.06	109.41	112.66
2	AW	602	P8E	C9-C8-C7	-2.06	109.41	112.66
2	A1	601	P8E	C9-C8-C7	-2.06	109.41	112.66
2	A2	601	P8E	C9-C8-C7	-2.06	109.41	112.66
2	A1	602	P8E	C9-C8-C7	-2.05	109.42	112.66
2	AA	602	P8E	C9-C8-C7	-2.05	109.42	112.66
2	A3	603	P8E	C9-C8-C7	-2.05	109.42	112.66
2	A4	602	P8E	C9-C8-C7	-2.05	109.42	112.66
2	AT	601	P8E	C9-C8-C7	-2.05	109.42	112.66
2	A6	605	P8E	C9-C8-C7	-2.04	109.43	112.66
2	AO	604	P8E	O6-C2-C3	2.04	113.30	110.56
2	AV	602	P8E	C9-C8-C7	-2.04	109.44	112.66
2	AV	601	P8E	C9-C8-C7	-2.03	109.45	112.66
2	AA	601	P8E	C9-C8-C7	-2.02	109.46	112.66
2	AX	603	P8E	C9-C8-C7	-2.02	109.47	112.66
2	A3	605	P8E	C9-C8-C7	-2.02	109.47	112.66
2	A9	605	P8E	C9-C8-C7	-2.02	109.47	112.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AX	605	P8E	C9-C8-C7	-2.02	109.47	112.66
2	AU	605	P8E	C9-C8-C7	-2.02	109.48	112.66
2	A7	605	P8E	C9-C8-C7	-2.01	109.48	112.66
2	AB	601	P8E	C9-C8-C7	-2.01	109.48	112.66
2	AF	605	P8E	C9-C8-C7	-2.01	109.48	112.66
2	A4	601	P8E	C9-C8-C7	-2.01	109.49	112.66
2	AC	605	P8E	C9-C8-C7	-2.01	109.49	112.66
2	AW	601	P8E	C9-C8-C7	-2.01	109.49	112.66
2	AR	605	P8E	C9-C8-C7	-2.00	109.49	112.66
2	AD	605	P8E	C9-C8-C7	-2.00	109.50	112.66

All (33) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A1	604	P8E	C2
2	A2	604	P8E	C2
2	A3	604	P8E	C2
2	A4	604	P8E	C2
2	A5	604	P8E	C2
2	A6	604	P8E	C2
2	A7	604	P8E	C2
2	A8	604	P8E	C2
2	A9	604	P8E	C2
2	AA	604	P8E	C2
2	AB	604	P8E	C2
2	AC	604	P8E	C2
2	AD	604	P8E	C2
2	AE	604	P8E	C2
2	AF	604	P8E	C2
2	AG	604	P8E	C2
2	AH	604	P8E	C2
2	AI	604	P8E	C2
2	AJ	604	P8E	C2
2	AK	604	P8E	C2
2	AL	604	P8E	C2
2	AM	604	P8E	C2
2	AN	604	P8E	C2
2	AO	604	P8E	C2
2	AP	604	P8E	C2
2	AQ	604	P8E	C2
2	AR	604	P8E	C2
2	AS	604	P8E	C2

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Mol	Chain	Res	Type	Atom
2	AT	604	P8E	C2
2	AU	604	P8E	C2
2	AV	604	P8E	C2
2	AW	604	P8E	C2
2	AX	604	P8E	C2

All (853) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A1	604	P8E	N7-C7-C8-C9
2	A1	604	P8E	C6-C7-C8-O8
2	A1	604	P8E	O6-C6-C7-N7
2	A1	604	P8E	O1A-C1-C2-C3
2	A1	604	P8E	O1B-C1-C2-C3
2	A1	605	P8E	O6-C6-C7-C8
2	A1	607	P8E	C6-C7-C8-C9
2	A1	607	P8E	N7-C7-C8-C9
2	A1	607	P8E	C6-C7-C8-O8
2	A1	607	P8E	N7-C7-C8-O8
2	A1	607	P8E	O1A-C1-C2-C3
2	A1	607	P8E	O1B-C1-C2-C3
2	A1	609	P8E	O6-C6-C7-N7
2	A2	604	P8E	N7-C7-C8-C9
2	A2	604	P8E	C6-C7-C8-O8
2	A2	604	P8E	O6-C6-C7-N7
2	A2	604	P8E	O1A-C1-C2-C3
2	A2	604	P8E	O1B-C1-C2-C3
2	A2	607	P8E	C6-C7-C8-C9
2	A2	607	P8E	N7-C7-C8-C9
2	A2	607	P8E	C6-C7-C8-O8
2	A2	607	P8E	N7-C7-C8-O8
2	A2	607	P8E	O1A-C1-C2-C3
2	A2	607	P8E	O1B-C1-C2-C3
2	A2	609	P8E	O6-C6-C7-N7
2	A3	604	P8E	N7-C7-C8-C9
2	A3	604	P8E	C6-C7-C8-O8
2	A3	604	P8E	O6-C6-C7-N7
2	A3	604	P8E	O1A-C1-C2-C3
2	A3	607	P8E	C6-C7-C8-C9
2	A3	607	P8E	N7-C7-C8-C9
2	A3	607	P8E	C6-C7-C8-O8
2	A3	607	P8E	N7-C7-C8-O8

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Mol	Chain	Res	Type	Atoms
2	A3	607	P8E	O1A-C1-C2-C3
2	A3	609	P8E	O6-C6-C7-N7
2	A4	604	P8E	N7-C7-C8-C9
2	A4	604	P8E	C6-C7-C8-O8
2	A4	604	P8E	O6-C6-C7-N7
2	A4	604	P8E	O1A-C1-C2-C3
2	A4	605	P8E	O6-C6-C7-C8
2	A4	607	P8E	C6-C7-C8-C9
2	A4	607	P8E	N7-C7-C8-C9
2	A4	607	P8E	C6-C7-C8-O8
2	A4	607	P8E	N7-C7-C8-O8
2	A4	607	P8E	O1A-C1-C2-C3
2	A4	607	P8E	O1B-C1-C2-C3
2	A4	609	P8E	O6-C6-C7-N7
2	A5	604	P8E	N7-C7-C8-C9
2	A5	604	P8E	C6-C7-C8-O8
2	A5	604	P8E	O6-C6-C7-N7
2	A5	604	P8E	O1A-C1-C2-C3
2	A5	604	P8E	O1B-C1-C2-C3
2	A5	607	P8E	C6-C7-C8-C9
2	A5	607	P8E	N7-C7-C8-C9
2	A5	607	P8E	C6-C7-C8-O8
2	A5	607	P8E	N7-C7-C8-O8
2	A5	607	P8E	O1A-C1-C2-C3
2	A5	609	P8E	O6-C6-C7-N7
2	A6	604	P8E	N7-C7-C8-C9
2	A6	604	P8E	C6-C7-C8-O8
2	A6	604	P8E	O6-C6-C7-N7
2	A6	604	P8E	O1A-C1-C2-C3
2	A6	604	P8E	O1B-C1-C2-C3
2	A6	605	P8E	O6-C6-C7-C8
2	A6	607	P8E	C6-C7-C8-C9
2	A6	607	P8E	N7-C7-C8-C9
2	A6	607	P8E	C6-C7-C8-O8
2	A6	607	P8E	N7-C7-C8-O8
2	A6	607	P8E	O1A-C1-C2-C3
2	A6	607	P8E	O1B-C1-C2-C3
2	A6	609	P8E	O6-C6-C7-N7
2	A7	604	P8E	N7-C7-C8-C9
2	A7	604	P8E	C6-C7-C8-O8
2	A7	604	P8E	O6-C6-C7-N7
2	A7	607	P8E	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
2	A7	607	P8E	N7-C7-C8-C9
2	A7	607	P8E	C6-C7-C8-O8
2	A7	607	P8E	N7-C7-C8-O8
2	A7	607	P8E	O1A-C1-C2-C3
2	A7	609	P8E	O6-C6-C7-N7
2	A8	604	P8E	N7-C7-C8-C9
2	A8	604	P8E	C6-C7-C8-O8
2	A8	604	P8E	O6-C6-C7-N7
2	A8	604	P8E	O1A-C1-C2-C3
2	A8	607	P8E	C6-C7-C8-C9
2	A8	607	P8E	N7-C7-C8-C9
2	A8	607	P8E	C6-C7-C8-O8
2	A8	607	P8E	N7-C7-C8-O8
2	A8	607	P8E	O1A-C1-C2-C3
2	A8	609	P8E	O6-C6-C7-N7
2	A9	604	P8E	N7-C7-C8-C9
2	A9	604	P8E	C6-C7-C8-O8
2	A9	604	P8E	O6-C6-C7-N7
2	A9	604	P8E	O1A-C1-C2-C3
2	A9	604	P8E	O1B-C1-C2-C3
2	A9	605	P8E	O6-C6-C7-C8
2	A9	607	P8E	C6-C7-C8-C9
2	A9	607	P8E	N7-C7-C8-C9
2	A9	607	P8E	C6-C7-C8-O8
2	A9	607	P8E	N7-C7-C8-O8
2	A9	607	P8E	O1A-C1-C2-C3
2	A9	607	P8E	O1B-C1-C2-C3
2	A9	609	P8E	O6-C6-C7-N7
2	AA	604	P8E	N7-C7-C8-C9
2	AA	604	P8E	C6-C7-C8-O8
2	AA	604	P8E	O6-C6-C7-N7
2	AA	605	P8E	O6-C6-C7-C8
2	AA	607	P8E	C6-C7-C8-C9
2	AA	607	P8E	N7-C7-C8-C9
2	AA	607	P8E	C6-C7-C8-O8
2	AA	607	P8E	N7-C7-C8-O8
2	AA	607	P8E	O1A-C1-C2-C3
2	AA	607	P8E	O1B-C1-C2-C3
2	AA	609	P8E	O6-C6-C7-N7
2	AB	604	P8E	N7-C7-C8-C9
2	AB	604	P8E	C6-C7-C8-O8
2	AB	604	P8E	O6-C6-C7-N7

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Mol	Chain	Res	Type	Atoms
2	AB	605	P8E	O6-C6-C7-C8
2	AB	607	P8E	C6-C7-C8-C9
2	AB	607	P8E	N7-C7-C8-C9
2	AB	607	P8E	C6-C7-C8-O8
2	AB	607	P8E	N7-C7-C8-O8
2	AB	607	P8E	O1A-C1-C2-C3
2	AB	607	P8E	O1B-C1-C2-C3
2	AB	609	P8E	O6-C6-C7-N7
2	AC	604	P8E	N7-C7-C8-C9
2	AC	604	P8E	C6-C7-C8-O8
2	AC	604	P8E	O6-C6-C7-N7
2	AC	607	P8E	C6-C7-C8-C9
2	AC	607	P8E	N7-C7-C8-C9
2	AC	607	P8E	C6-C7-C8-O8
2	AC	607	P8E	N7-C7-C8-O8
2	AC	607	P8E	O1A-C1-C2-C3
2	AC	609	P8E	O6-C6-C7-N7
2	AD	604	P8E	N7-C7-C8-C9
2	AD	604	P8E	C6-C7-C8-O8
2	AD	604	P8E	O6-C6-C7-N7
2	AD	607	P8E	C6-C7-C8-C9
2	AD	607	P8E	N7-C7-C8-C9
2	AD	607	P8E	C6-C7-C8-O8
2	AD	607	P8E	N7-C7-C8-O8
2	AD	607	P8E	O1A-C1-C2-C3
2	AD	607	P8E	O1B-C1-C2-C3
2	AD	609	P8E	O6-C6-C7-N7
2	AE	604	P8E	N7-C7-C8-C9
2	AE	604	P8E	C6-C7-C8-O8
2	AE	604	P8E	O6-C6-C7-N7
2	AE	604	P8E	O1A-C1-C2-C3
2	AE	607	P8E	C6-C7-C8-C9
2	AE	607	P8E	N7-C7-C8-C9
2	AE	607	P8E	C6-C7-C8-O8
2	AE	607	P8E	N7-C7-C8-O8
2	AE	607	P8E	O1A-C1-C2-C3
2	AE	609	P8E	O6-C6-C7-N7
2	AF	604	P8E	N7-C7-C8-C9
2	AF	604	P8E	C6-C7-C8-O8
2	AF	604	P8E	O6-C6-C7-N7
2	AF	604	P8E	O1A-C1-C2-C3
2	AF	604	P8E	O1B-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	AF	605	P8E	O6-C6-C7-C8
2	AF	607	P8E	C6-C7-C8-C9
2	AF	607	P8E	N7-C7-C8-C9
2	AF	607	P8E	C6-C7-C8-O8
2	AF	607	P8E	N7-C7-C8-O8
2	AF	607	P8E	O1A-C1-C2-C3
2	AF	607	P8E	O1B-C1-C2-C3
2	AF	609	P8E	O6-C6-C7-N7
2	AG	604	P8E	N7-C7-C8-C9
2	AG	604	P8E	C6-C7-C8-O8
2	AG	604	P8E	O6-C6-C7-N7
2	AG	604	P8E	O1A-C1-C2-C3
2	AG	604	P8E	O1B-C1-C2-C3
2	AG	605	P8E	O6-C6-C7-C8
2	AG	607	P8E	C6-C7-C8-C9
2	AG	607	P8E	N7-C7-C8-C9
2	AG	607	P8E	C6-C7-C8-O8
2	AG	607	P8E	N7-C7-C8-O8
2	AG	607	P8E	O1A-C1-C2-C3
2	AG	609	P8E	O6-C6-C7-N7
2	AH	604	P8E	N7-C7-C8-C9
2	AH	604	P8E	C6-C7-C8-O8
2	AH	604	P8E	O6-C6-C7-N7
2	AH	604	P8E	O1A-C1-C2-C3
2	AH	604	P8E	O1B-C1-C2-C3
2	AH	605	P8E	O6-C6-C7-C8
2	AH	607	P8E	C6-C7-C8-C9
2	AH	607	P8E	N7-C7-C8-C9
2	AH	607	P8E	C6-C7-C8-O8
2	AH	607	P8E	N7-C7-C8-O8
2	AH	607	P8E	O1A-C1-C2-C3
2	AH	607	P8E	O1B-C1-C2-C3
2	AH	609	P8E	O6-C6-C7-N7
2	AI	604	P8E	N7-C7-C8-C9
2	AI	604	P8E	C6-C7-C8-O8
2	AI	604	P8E	O6-C6-C7-N7
2	AI	604	P8E	O1A-C1-C2-C3
2	AI	604	P8E	O1B-C1-C2-C3
2	AI	605	P8E	O6-C6-C7-C8
2	AI	607	P8E	C6-C7-C8-C9
2	AI	607	P8E	N7-C7-C8-C9
2	AI	607	P8E	C6-C7-C8-O8

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Mol	Chain	Res	Type	Atoms
2	AI	607	P8E	N7-C7-C8-O8
2	AI	607	P8E	O1A-C1-C2-C3
2	AI	609	P8E	O6-C6-C7-N7
2	AJ	604	P8E	N7-C7-C8-C9
2	AJ	604	P8E	C6-C7-C8-O8
2	AJ	604	P8E	O6-C6-C7-N7
2	AJ	607	P8E	C6-C7-C8-C9
2	AJ	607	P8E	N7-C7-C8-C9
2	AJ	607	P8E	C6-C7-C8-O8
2	AJ	607	P8E	N7-C7-C8-O8
2	AJ	607	P8E	O1A-C1-C2-C3
2	AJ	609	P8E	O6-C6-C7-N7
2	AK	604	P8E	N7-C7-C8-C9
2	AK	604	P8E	C6-C7-C8-O8
2	AK	604	P8E	O6-C6-C7-N7
2	AK	604	P8E	O1A-C1-C2-C3
2	AK	604	P8E	O1B-C1-C2-C3
2	AK	607	P8E	C6-C7-C8-C9
2	AK	607	P8E	N7-C7-C8-C9
2	AK	607	P8E	C6-C7-C8-O8
2	AK	607	P8E	N7-C7-C8-O8
2	AK	607	P8E	O1A-C1-C2-C3
2	AK	609	P8E	O6-C6-C7-N7
2	AL	604	P8E	N7-C7-C8-C9
2	AL	604	P8E	C6-C7-C8-O8
2	AL	604	P8E	O6-C6-C7-N7
2	AL	607	P8E	C6-C7-C8-C9
2	AL	607	P8E	N7-C7-C8-C9
2	AL	607	P8E	C6-C7-C8-O8
2	AL	607	P8E	N7-C7-C8-O8
2	AL	607	P8E	O1A-C1-C2-C3
2	AL	609	P8E	O6-C6-C7-N7
2	AM	604	P8E	N7-C7-C8-C9
2	AM	604	P8E	C6-C7-C8-O8
2	AM	604	P8E	O6-C6-C7-N7
2	AM	604	P8E	O1A-C1-C2-C3
2	AM	604	P8E	O1B-C1-C2-C3
2	AM	605	P8E	O6-C6-C7-C8
2	AM	607	P8E	C6-C7-C8-C9
2	AM	607	P8E	N7-C7-C8-C9
2	AM	607	P8E	C6-C7-C8-O8
2	AM	607	P8E	N7-C7-C8-O8

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Mol	Chain	Res	Type	Atoms
2	AM	607	P8E	O1A-C1-C2-C3
2	AM	607	P8E	O1B-C1-C2-C3
2	AM	609	P8E	O6-C6-C7-N7
2	AN	604	P8E	N7-C7-C8-C9
2	AN	604	P8E	C6-C7-C8-O8
2	AN	604	P8E	O6-C6-C7-N7
2	AN	604	P8E	O1A-C1-C2-C3
2	AN	604	P8E	O1B-C1-C2-C3
2	AN	605	P8E	O6-C6-C7-C8
2	AN	607	P8E	C6-C7-C8-C9
2	AN	607	P8E	N7-C7-C8-C9
2	AN	607	P8E	C6-C7-C8-O8
2	AN	607	P8E	N7-C7-C8-O8
2	AN	607	P8E	O1A-C1-C2-C3
2	AN	609	P8E	O6-C6-C7-N7
2	AO	604	P8E	N7-C7-C8-C9
2	AO	604	P8E	C6-C7-C8-O8
2	AO	604	P8E	O6-C6-C7-N7
2	AO	604	P8E	O1A-C1-C2-C3
2	AO	607	P8E	C6-C7-C8-C9
2	AO	607	P8E	N7-C7-C8-C9
2	AO	607	P8E	C6-C7-C8-O8
2	AO	607	P8E	N7-C7-C8-O8
2	AO	607	P8E	O1A-C1-C2-C3
2	AO	609	P8E	O6-C6-C7-N7
2	AP	604	P8E	N7-C7-C8-C9
2	AP	604	P8E	C6-C7-C8-O8
2	AP	604	P8E	O6-C6-C7-N7
2	AP	604	P8E	O1A-C1-C2-C3
2	AP	604	P8E	O1B-C1-C2-C3
2	AP	605	P8E	O6-C6-C7-C8
2	AP	607	P8E	C6-C7-C8-C9
2	AP	607	P8E	N7-C7-C8-C9
2	AP	607	P8E	C6-C7-C8-O8
2	AP	607	P8E	N7-C7-C8-O8
2	AP	607	P8E	O1A-C1-C2-C3
2	AP	609	P8E	O6-C6-C7-N7
2	AQ	604	P8E	N7-C7-C8-C9
2	AQ	604	P8E	C6-C7-C8-O8
2	AQ	604	P8E	O6-C6-C7-N7
2	AQ	604	P8E	O1A-C1-C2-C3
2	AQ	604	P8E	O1B-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	AQ	605	P8E	O6-C6-C7-C8
2	AQ	607	P8E	C6-C7-C8-C9
2	AQ	607	P8E	N7-C7-C8-C9
2	AQ	607	P8E	C6-C7-C8-O8
2	AQ	607	P8E	N7-C7-C8-O8
2	AQ	607	P8E	O1A-C1-C2-C3
2	AQ	609	P8E	O6-C6-C7-N7
2	AR	604	P8E	N7-C7-C8-C9
2	AR	604	P8E	C6-C7-C8-O8
2	AR	604	P8E	O6-C6-C7-N7
2	AR	604	P8E	O1A-C1-C2-C3
2	AR	604	P8E	O1B-C1-C2-C3
2	AR	607	P8E	C6-C7-C8-C9
2	AR	607	P8E	N7-C7-C8-C9
2	AR	607	P8E	C6-C7-C8-O8
2	AR	607	P8E	N7-C7-C8-O8
2	AR	607	P8E	O1A-C1-C2-C3
2	AR	609	P8E	O6-C6-C7-N7
2	AS	604	P8E	N7-C7-C8-C9
2	AS	604	P8E	C6-C7-C8-O8
2	AS	604	P8E	O6-C6-C7-N7
2	AS	604	P8E	O1A-C1-C2-C3
2	AS	604	P8E	O1B-C1-C2-C3
2	AS	607	P8E	C6-C7-C8-C9
2	AS	607	P8E	N7-C7-C8-C9
2	AS	607	P8E	C6-C7-C8-O8
2	AS	607	P8E	N7-C7-C8-O8
2	AS	607	P8E	O1A-C1-C2-C3
2	AS	609	P8E	O6-C6-C7-N7
2	AT	604	P8E	N7-C7-C8-C9
2	AT	604	P8E	C6-C7-C8-O8
2	AT	604	P8E	O6-C6-C7-N7
2	AT	604	P8E	O1A-C1-C2-C3
2	AT	604	P8E	O1B-C1-C2-C3
2	AT	605	P8E	O6-C6-C7-C8
2	AT	607	P8E	C6-C7-C8-C9
2	AT	607	P8E	N7-C7-C8-C9
2	AT	607	P8E	C6-C7-C8-O8
2	AT	607	P8E	N7-C7-C8-O8
2	AT	607	P8E	O1A-C1-C2-C3
2	AT	607	P8E	O1B-C1-C2-C3
2	AT	609	P8E	O6-C6-C7-N7

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Mol	Chain	Res	Type	Atoms
2	AU	604	P8E	N7-C7-C8-C9
2	AU	604	P8E	C6-C7-C8-O8
2	AU	604	P8E	O6-C6-C7-N7
2	AU	604	P8E	O1A-C1-C2-C3
2	AU	604	P8E	O1B-C1-C2-C3
2	AU	607	P8E	C6-C7-C8-C9
2	AU	607	P8E	N7-C7-C8-C9
2	AU	607	P8E	C6-C7-C8-O8
2	AU	607	P8E	N7-C7-C8-O8
2	AU	607	P8E	O1A-C1-C2-C3
2	AU	609	P8E	O6-C6-C7-N7
2	AV	604	P8E	N7-C7-C8-C9
2	AV	604	P8E	C6-C7-C8-O8
2	AV	604	P8E	O6-C6-C7-N7
2	AV	607	P8E	C6-C7-C8-C9
2	AV	607	P8E	N7-C7-C8-C9
2	AV	607	P8E	C6-C7-C8-O8
2	AV	607	P8E	N7-C7-C8-O8
2	AV	607	P8E	O1A-C1-C2-C3
2	AV	607	P8E	O1B-C1-C2-C3
2	AV	609	P8E	O6-C6-C7-N7
2	AW	604	P8E	N7-C7-C8-C9
2	AW	604	P8E	C6-C7-C8-O8
2	AW	604	P8E	O6-C6-C7-N7
2	AW	604	P8E	O1A-C1-C2-C3
2	AW	604	P8E	O1B-C1-C2-C3
2	AW	605	P8E	O6-C6-C7-C8
2	AW	607	P8E	C6-C7-C8-C9
2	AW	607	P8E	N7-C7-C8-C9
2	AW	607	P8E	C6-C7-C8-O8
2	AW	607	P8E	N7-C7-C8-O8
2	AW	607	P8E	O1A-C1-C2-C3
2	AW	607	P8E	O1B-C1-C2-C3
2	AW	609	P8E	O6-C6-C7-N7
2	AX	604	P8E	N7-C7-C8-C9
2	AX	604	P8E	C6-C7-C8-O8
2	AX	604	P8E	O6-C6-C7-N7
2	AX	607	P8E	C6-C7-C8-C9
2	AX	607	P8E	N7-C7-C8-C9
2	AX	607	P8E	C6-C7-C8-O8
2	AX	607	P8E	N7-C7-C8-O8
2	AX	607	P8E	O1A-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	AX	609	P8E	O6-C6-C7-N7
2	A2	605	P8E	O6-C6-C7-C8
2	A3	605	P8E	O6-C6-C7-C8
2	A5	605	P8E	O6-C6-C7-C8
2	A7	605	P8E	O6-C6-C7-C8
2	A8	605	P8E	O6-C6-C7-C8
2	AC	605	P8E	O6-C6-C7-C8
2	AD	605	P8E	O6-C6-C7-C8
2	AE	605	P8E	O6-C6-C7-C8
2	AJ	605	P8E	O6-C6-C7-C8
2	AK	605	P8E	O6-C6-C7-C8
2	AL	605	P8E	O6-C6-C7-C8
2	AO	605	P8E	O6-C6-C7-C8
2	AR	605	P8E	O6-C6-C7-C8
2	AS	605	P8E	O6-C6-C7-C8
2	AU	605	P8E	O6-C6-C7-C8
2	AV	605	P8E	O6-C6-C7-C8
2	AX	605	P8E	O6-C6-C7-C8
2	A1	604	P8E	O6-C6-C7-C8
2	A1	609	P8E	O6-C6-C7-C8
2	A2	604	P8E	O6-C6-C7-C8
2	A2	609	P8E	O6-C6-C7-C8
2	A3	604	P8E	O6-C6-C7-C8
2	A3	609	P8E	O6-C6-C7-C8
2	A4	604	P8E	O6-C6-C7-C8
2	A4	609	P8E	O6-C6-C7-C8
2	A5	604	P8E	O6-C6-C7-C8
2	A5	609	P8E	O6-C6-C7-C8
2	A6	604	P8E	O6-C6-C7-C8
2	A6	609	P8E	O6-C6-C7-C8
2	A7	604	P8E	O6-C6-C7-C8
2	A7	609	P8E	O6-C6-C7-C8
2	A8	604	P8E	O6-C6-C7-C8
2	A8	609	P8E	O6-C6-C7-C8
2	A9	604	P8E	O6-C6-C7-C8
2	A9	609	P8E	O6-C6-C7-C8
2	AA	604	P8E	O6-C6-C7-C8
2	AA	609	P8E	O6-C6-C7-C8
2	AB	604	P8E	O6-C6-C7-C8
2	AB	609	P8E	O6-C6-C7-C8
2	AC	604	P8E	O6-C6-C7-C8
2	AC	609	P8E	O6-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	AD	604	P8E	O6-C6-C7-C8
2	AD	609	P8E	O6-C6-C7-C8
2	AE	604	P8E	O6-C6-C7-C8
2	AE	609	P8E	O6-C6-C7-C8
2	AF	604	P8E	O6-C6-C7-C8
2	AF	609	P8E	O6-C6-C7-C8
2	AG	604	P8E	O6-C6-C7-C8
2	AG	609	P8E	O6-C6-C7-C8
2	AH	604	P8E	O6-C6-C7-C8
2	AH	609	P8E	O6-C6-C7-C8
2	AI	604	P8E	O6-C6-C7-C8
2	AI	609	P8E	O6-C6-C7-C8
2	AJ	604	P8E	O6-C6-C7-C8
2	AJ	609	P8E	O6-C6-C7-C8
2	AK	604	P8E	O6-C6-C7-C8
2	AK	609	P8E	O6-C6-C7-C8
2	AL	604	P8E	O6-C6-C7-C8
2	AL	609	P8E	O6-C6-C7-C8
2	AM	604	P8E	O6-C6-C7-C8
2	AM	609	P8E	O6-C6-C7-C8
2	AN	604	P8E	O6-C6-C7-C8
2	AN	609	P8E	O6-C6-C7-C8
2	AO	604	P8E	O6-C6-C7-C8
2	AO	609	P8E	O6-C6-C7-C8
2	AP	604	P8E	O6-C6-C7-C8
2	AP	609	P8E	O6-C6-C7-C8
2	AQ	604	P8E	O6-C6-C7-C8
2	AQ	609	P8E	O6-C6-C7-C8
2	AR	604	P8E	O6-C6-C7-C8
2	AR	609	P8E	O6-C6-C7-C8
2	AS	604	P8E	O6-C6-C7-C8
2	AS	609	P8E	O6-C6-C7-C8
2	AT	604	P8E	O6-C6-C7-C8
2	AT	609	P8E	O6-C6-C7-C8
2	AU	604	P8E	O6-C6-C7-C8
2	AU	609	P8E	O6-C6-C7-C8
2	AV	604	P8E	O6-C6-C7-C8
2	AV	609	P8E	O6-C6-C7-C8
2	AW	604	P8E	O6-C6-C7-C8
2	AW	609	P8E	O6-C6-C7-C8
2	AX	604	P8E	O6-C6-C7-C8
2	AX	609	P8E	O6-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	A1	604	P8E	C5-C6-C7-C8
2	A1	605	P8E	C5-C6-C7-C8
2	A1	609	P8E	C5-C6-C7-C8
2	A2	604	P8E	C5-C6-C7-C8
2	A2	605	P8E	C5-C6-C7-C8
2	A2	609	P8E	C5-C6-C7-C8
2	A3	604	P8E	C5-C6-C7-C8
2	A3	605	P8E	C5-C6-C7-C8
2	A3	609	P8E	C5-C6-C7-C8
2	A4	604	P8E	C5-C6-C7-C8
2	A4	605	P8E	C5-C6-C7-C8
2	A4	609	P8E	C5-C6-C7-C8
2	A5	604	P8E	C5-C6-C7-C8
2	A5	605	P8E	C5-C6-C7-C8
2	A5	609	P8E	C5-C6-C7-C8
2	A6	604	P8E	C5-C6-C7-C8
2	A6	605	P8E	C5-C6-C7-C8
2	A6	609	P8E	C5-C6-C7-C8
2	A7	604	P8E	C5-C6-C7-C8
2	A7	605	P8E	C5-C6-C7-C8
2	A7	609	P8E	C5-C6-C7-C8
2	A8	604	P8E	C5-C6-C7-C8
2	A8	605	P8E	C5-C6-C7-C8
2	A8	609	P8E	C5-C6-C7-C8
2	A9	604	P8E	C5-C6-C7-C8
2	A9	605	P8E	C5-C6-C7-C8
2	A9	609	P8E	C5-C6-C7-C8
2	AA	604	P8E	C5-C6-C7-C8
2	AA	605	P8E	C5-C6-C7-C8
2	AA	609	P8E	C5-C6-C7-C8
2	AB	604	P8E	C5-C6-C7-C8
2	AB	605	P8E	C5-C6-C7-C8
2	AB	609	P8E	C5-C6-C7-C8
2	AC	604	P8E	C5-C6-C7-C8
2	AC	605	P8E	C5-C6-C7-C8
2	AC	609	P8E	C5-C6-C7-C8
2	AD	604	P8E	C5-C6-C7-C8
2	AD	605	P8E	C5-C6-C7-C8
2	AD	609	P8E	C5-C6-C7-C8
2	AE	604	P8E	C5-C6-C7-C8
2	AE	605	P8E	C5-C6-C7-C8
2	AE	609	P8E	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	AF	604	P8E	C5-C6-C7-C8
2	AF	605	P8E	C5-C6-C7-C8
2	AF	609	P8E	C5-C6-C7-C8
2	AG	604	P8E	C5-C6-C7-C8
2	AG	605	P8E	C5-C6-C7-C8
2	AG	609	P8E	C5-C6-C7-C8
2	AH	604	P8E	C5-C6-C7-C8
2	AH	605	P8E	C5-C6-C7-C8
2	AH	609	P8E	C5-C6-C7-C8
2	AI	604	P8E	C5-C6-C7-C8
2	AI	605	P8E	C5-C6-C7-C8
2	AI	609	P8E	C5-C6-C7-C8
2	AJ	604	P8E	C5-C6-C7-C8
2	AJ	605	P8E	C5-C6-C7-C8
2	AJ	609	P8E	C5-C6-C7-C8
2	AK	604	P8E	C5-C6-C7-C8
2	AK	605	P8E	C5-C6-C7-C8
2	AK	609	P8E	C5-C6-C7-C8
2	AL	604	P8E	C5-C6-C7-C8
2	AL	605	P8E	C5-C6-C7-C8
2	AL	609	P8E	C5-C6-C7-C8
2	AM	604	P8E	C5-C6-C7-C8
2	AM	605	P8E	C5-C6-C7-C8
2	AM	609	P8E	C5-C6-C7-C8
2	AN	604	P8E	C5-C6-C7-C8
2	AN	605	P8E	C5-C6-C7-C8
2	AN	609	P8E	C5-C6-C7-C8
2	AO	604	P8E	C5-C6-C7-C8
2	AO	605	P8E	C5-C6-C7-C8
2	AO	609	P8E	C5-C6-C7-C8
2	AP	604	P8E	C5-C6-C7-C8
2	AP	605	P8E	C5-C6-C7-C8
2	AP	609	P8E	C5-C6-C7-C8
2	AQ	604	P8E	C5-C6-C7-C8
2	AQ	605	P8E	C5-C6-C7-C8
2	AQ	609	P8E	C5-C6-C7-C8
2	AR	604	P8E	C5-C6-C7-C8
2	AR	605	P8E	C5-C6-C7-C8
2	AR	609	P8E	C5-C6-C7-C8
2	AS	604	P8E	C5-C6-C7-C8
2	AS	605	P8E	C5-C6-C7-C8
2	AS	609	P8E	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	AT	604	P8E	C5-C6-C7-C8
2	AT	605	P8E	C5-C6-C7-C8
2	AT	609	P8E	C5-C6-C7-C8
2	AU	604	P8E	C5-C6-C7-C8
2	AU	605	P8E	C5-C6-C7-C8
2	AU	609	P8E	C5-C6-C7-C8
2	AV	604	P8E	C5-C6-C7-C8
2	AV	605	P8E	C5-C6-C7-C8
2	AV	609	P8E	C5-C6-C7-C8
2	AW	604	P8E	C5-C6-C7-C8
2	AW	605	P8E	C5-C6-C7-C8
2	AW	609	P8E	C5-C6-C7-C8
2	AX	604	P8E	C5-C6-C7-C8
2	AX	605	P8E	C5-C6-C7-C8
2	AX	609	P8E	C5-C6-C7-C8
2	A1	606	P8E	O1A-C1-C2-C3
2	A1	606	P8E	O1B-C1-C2-C3
2	A2	606	P8E	O1A-C1-C2-C3
2	A2	606	P8E	O1B-C1-C2-C3
2	A3	604	P8E	O1B-C1-C2-C3
2	A3	606	P8E	O1A-C1-C2-C3
2	A3	606	P8E	O1B-C1-C2-C3
2	A3	607	P8E	O1B-C1-C2-C3
2	A4	604	P8E	O1B-C1-C2-C3
2	A4	606	P8E	O1A-C1-C2-C3
2	A4	606	P8E	O1B-C1-C2-C3
2	A5	606	P8E	O1A-C1-C2-C3
2	A5	606	P8E	O1B-C1-C2-C3
2	A5	607	P8E	O1B-C1-C2-C3
2	A6	606	P8E	O1A-C1-C2-C3
2	A6	606	P8E	O1B-C1-C2-C3
2	A7	604	P8E	O1A-C1-C2-C3
2	A7	604	P8E	O1B-C1-C2-C3
2	A7	606	P8E	O1A-C1-C2-C3
2	A7	606	P8E	O1B-C1-C2-C3
2	A7	607	P8E	O1B-C1-C2-C3
2	A8	604	P8E	O1B-C1-C2-C3
2	A8	606	P8E	O1A-C1-C2-C3
2	A8	606	P8E	O1B-C1-C2-C3
2	A8	607	P8E	O1B-C1-C2-C3
2	A9	606	P8E	O1A-C1-C2-C3
2	A9	606	P8E	O1B-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	AA	604	P8E	O1A-C1-C2-C3
2	AA	604	P8E	O1B-C1-C2-C3
2	AA	606	P8E	O1A-C1-C2-C3
2	AA	606	P8E	O1B-C1-C2-C3
2	AB	604	P8E	O1A-C1-C2-C3
2	AB	604	P8E	O1B-C1-C2-C3
2	AB	606	P8E	O1A-C1-C2-C3
2	AB	606	P8E	O1B-C1-C2-C3
2	AC	604	P8E	O1A-C1-C2-C3
2	AC	604	P8E	O1B-C1-C2-C3
2	AC	606	P8E	O1A-C1-C2-C3
2	AC	606	P8E	O1B-C1-C2-C3
2	AC	607	P8E	O1B-C1-C2-C3
2	AD	604	P8E	O1A-C1-C2-C3
2	AD	604	P8E	O1B-C1-C2-C3
2	AD	606	P8E	O1A-C1-C2-C3
2	AD	606	P8E	O1B-C1-C2-C3
2	AE	604	P8E	O1B-C1-C2-C3
2	AE	606	P8E	O1A-C1-C2-C3
2	AE	606	P8E	O1B-C1-C2-C3
2	AE	607	P8E	O1B-C1-C2-C3
2	AF	606	P8E	O1A-C1-C2-C3
2	AF	606	P8E	O1B-C1-C2-C3
2	AG	606	P8E	O1A-C1-C2-C3
2	AG	606	P8E	O1B-C1-C2-C3
2	AG	607	P8E	O1B-C1-C2-C3
2	AH	606	P8E	O1A-C1-C2-C3
2	AH	606	P8E	O1B-C1-C2-C3
2	AI	606	P8E	O1A-C1-C2-C3
2	AI	606	P8E	O1B-C1-C2-C3
2	AI	607	P8E	O1B-C1-C2-C3
2	AJ	604	P8E	O1A-C1-C2-C3
2	AJ	604	P8E	O1B-C1-C2-C3
2	AJ	606	P8E	O1A-C1-C2-C3
2	AJ	606	P8E	O1B-C1-C2-C3
2	AJ	607	P8E	O1B-C1-C2-C3
2	AK	606	P8E	O1A-C1-C2-C3
2	AK	606	P8E	O1B-C1-C2-C3
2	AK	607	P8E	O1B-C1-C2-C3
2	AL	604	P8E	O1A-C1-C2-C3
2	AL	604	P8E	O1B-C1-C2-C3
2	AL	606	P8E	O1A-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	AL	606	P8E	O1B-C1-C2-C3
2	AL	607	P8E	O1B-C1-C2-C3
2	AM	606	P8E	O1A-C1-C2-C3
2	AM	606	P8E	O1B-C1-C2-C3
2	AN	606	P8E	O1A-C1-C2-C3
2	AN	606	P8E	O1B-C1-C2-C3
2	AN	607	P8E	O1B-C1-C2-C3
2	AO	604	P8E	O1B-C1-C2-C3
2	AO	606	P8E	O1A-C1-C2-C3
2	AO	606	P8E	O1B-C1-C2-C3
2	AO	607	P8E	O1B-C1-C2-C3
2	AP	606	P8E	O1A-C1-C2-C3
2	AP	606	P8E	O1B-C1-C2-C3
2	AP	607	P8E	O1B-C1-C2-C3
2	AQ	606	P8E	O1A-C1-C2-C3
2	AQ	606	P8E	O1B-C1-C2-C3
2	AQ	607	P8E	O1B-C1-C2-C3
2	AR	606	P8E	O1A-C1-C2-C3
2	AR	606	P8E	O1B-C1-C2-C3
2	AR	607	P8E	O1B-C1-C2-C3
2	AS	606	P8E	O1A-C1-C2-C3
2	AS	606	P8E	O1B-C1-C2-C3
2	AS	607	P8E	O1B-C1-C2-C3
2	AT	606	P8E	O1A-C1-C2-C3
2	AT	606	P8E	O1B-C1-C2-C3
2	AU	606	P8E	O1A-C1-C2-C3
2	AU	606	P8E	O1B-C1-C2-C3
2	AU	607	P8E	O1B-C1-C2-C3
2	AV	604	P8E	O1A-C1-C2-C3
2	AV	604	P8E	O1B-C1-C2-C3
2	AV	606	P8E	O1A-C1-C2-C3
2	AV	606	P8E	O1B-C1-C2-C3
2	AW	606	P8E	O1A-C1-C2-C3
2	AW	606	P8E	O1B-C1-C2-C3
2	AX	604	P8E	O1A-C1-C2-C3
2	AX	604	P8E	O1B-C1-C2-C3
2	AX	606	P8E	O1A-C1-C2-C3
2	AX	606	P8E	O1B-C1-C2-C3
2	AX	607	P8E	O1B-C1-C2-C3
2	A8	604	P8E	N7-C7-C8-O8
2	AA	604	P8E	N7-C7-C8-O8
2	AB	604	P8E	N7-C7-C8-O8

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Mol	Chain	Res	Type	Atoms
2	AC	604	P8E	N7-C7-C8-O8
2	AD	604	P8E	N7-C7-C8-O8
2	AE	604	P8E	N7-C7-C8-O8
2	AJ	604	P8E	N7-C7-C8-O8
2	AL	604	P8E	N7-C7-C8-O8
2	AR	604	P8E	N7-C7-C8-O8
2	AV	604	P8E	N7-C7-C8-O8
2	AW	604	P8E	N7-C7-C8-O8
2	A2	603	P8E	O6-C6-C7-C8
2	A4	603	P8E	O6-C6-C7-C8
2	A5	603	P8E	O6-C6-C7-C8
2	A6	603	P8E	O6-C6-C7-C8
2	AA	603	P8E	O6-C6-C7-C8
2	AB	603	P8E	O6-C6-C7-C8
2	AF	603	P8E	O6-C6-C7-C8
2	AG	603	P8E	O6-C6-C7-C8
2	AH	603	P8E	O6-C6-C7-C8
2	AI	603	P8E	O6-C6-C7-C8
2	AK	603	P8E	O6-C6-C7-C8
2	AN	603	P8E	O6-C6-C7-C8
2	AO	603	P8E	O6-C6-C7-C8
2	AP	603	P8E	O6-C6-C7-C8
2	AQ	603	P8E	O6-C6-C7-C8
2	AS	603	P8E	O6-C6-C7-C8
2	AT	603	P8E	O6-C6-C7-C8
2	AW	603	P8E	O6-C6-C7-C8
2	A1	603	P8E	O6-C6-C7-C8
2	A3	603	P8E	O6-C6-C7-C8
2	A7	603	P8E	O6-C6-C7-C8
2	A8	603	P8E	O6-C6-C7-C8
2	A9	603	P8E	O6-C6-C7-C8
2	AD	603	P8E	O6-C6-C7-C8
2	AJ	603	P8E	O6-C6-C7-C8
2	AM	603	P8E	O6-C6-C7-C8
2	AR	603	P8E	O6-C6-C7-C8
2	AV	603	P8E	O6-C6-C7-C8
2	A1	608	P8E	O6-C6-C7-C8
2	A9	608	P8E	O6-C6-C7-C8
2	AC	603	P8E	O6-C6-C7-C8
2	AE	603	P8E	O6-C6-C7-C8
2	AL	603	P8E	O6-C6-C7-C8
2	AU	603	P8E	O6-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	AX	603	P8E	O6-C6-C7-C8
2	A2	608	P8E	O6-C6-C7-C8
2	A4	608	P8E	O6-C6-C7-C8
2	AF	608	P8E	O6-C6-C7-C8
2	AI	608	P8E	O6-C6-C7-C8
2	AM	608	P8E	O6-C6-C7-C8
2	AO	608	P8E	O6-C6-C7-C8
2	AW	608	P8E	O6-C6-C7-C8
2	A1	603	P8E	C5-C6-C7-C8
2	A4	603	P8E	C5-C6-C7-C8
2	A5	603	P8E	C5-C6-C7-C8
2	A9	603	P8E	C5-C6-C7-C8
2	AA	603	P8E	C5-C6-C7-C8
2	AB	603	P8E	C5-C6-C7-C8
2	AN	603	P8E	C5-C6-C7-C8
2	AO	603	P8E	C5-C6-C7-C8
2	AQ	603	P8E	C5-C6-C7-C8
2	A2	604	P8E	C6-C7-C8-C9
2	A3	604	P8E	C6-C7-C8-C9
2	A4	604	P8E	C6-C7-C8-C9
2	A5	604	P8E	C6-C7-C8-C9
2	A8	604	P8E	C6-C7-C8-C9
2	AA	604	P8E	C6-C7-C8-C9
2	AB	604	P8E	C6-C7-C8-C9
2	AC	604	P8E	C6-C7-C8-C9
2	AE	604	P8E	C6-C7-C8-C9
2	AG	604	P8E	C6-C7-C8-C9
2	AH	604	P8E	C6-C7-C8-C9
2	AI	604	P8E	C6-C7-C8-C9
2	AJ	604	P8E	C6-C7-C8-C9
2	AK	604	P8E	C6-C7-C8-C9
2	AL	604	P8E	C6-C7-C8-C9
2	AN	604	P8E	C6-C7-C8-C9
2	AO	604	P8E	C6-C7-C8-C9
2	AP	604	P8E	C6-C7-C8-C9
2	AQ	604	P8E	C6-C7-C8-C9
2	AR	604	P8E	C6-C7-C8-C9
2	AS	604	P8E	C6-C7-C8-C9
2	AT	604	P8E	C6-C7-C8-C9
2	AW	604	P8E	C6-C7-C8-C9
2	A1	604	P8E	N7-C7-C8-O8
2	A2	604	P8E	N7-C7-C8-O8

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Mol	Chain	Res	Type	Atoms
2	A3	604	P8E	N7-C7-C8-O8
2	A4	604	P8E	N7-C7-C8-O8
2	A5	604	P8E	N7-C7-C8-O8
2	A6	604	P8E	N7-C7-C8-O8
2	A7	604	P8E	N7-C7-C8-O8
2	A9	604	P8E	N7-C7-C8-O8
2	AF	604	P8E	N7-C7-C8-O8
2	AG	604	P8E	N7-C7-C8-O8
2	AH	604	P8E	N7-C7-C8-O8
2	AI	604	P8E	N7-C7-C8-O8
2	AK	604	P8E	N7-C7-C8-O8
2	AM	604	P8E	N7-C7-C8-O8
2	AN	604	P8E	N7-C7-C8-O8
2	AO	604	P8E	N7-C7-C8-O8
2	AP	604	P8E	N7-C7-C8-O8
2	AQ	604	P8E	N7-C7-C8-O8
2	AS	604	P8E	N7-C7-C8-O8
2	AT	604	P8E	N7-C7-C8-O8
2	AU	604	P8E	N7-C7-C8-O8
2	AX	604	P8E	N7-C7-C8-O8
2	A5	608	P8E	O6-C6-C7-C8
2	A6	608	P8E	O6-C6-C7-C8
2	A8	608	P8E	O6-C6-C7-C8
2	AB	608	P8E	O6-C6-C7-C8
2	AC	608	P8E	O6-C6-C7-C8
2	AD	608	P8E	O6-C6-C7-C8
2	AL	608	P8E	O6-C6-C7-C8
2	AP	608	P8E	O6-C6-C7-C8
2	AR	608	P8E	O6-C6-C7-C8
2	AS	608	P8E	O6-C6-C7-C8
2	AV	608	P8E	O6-C6-C7-C8
2	A1	603	P8E	O6-C6-C7-N7
2	A1	605	P8E	O6-C6-C7-N7
2	A1	608	P8E	O6-C6-C7-N7
2	A2	603	P8E	O6-C6-C7-N7
2	A2	605	P8E	O6-C6-C7-N7
2	A3	603	P8E	O6-C6-C7-N7
2	A3	605	P8E	O6-C6-C7-N7
2	A4	603	P8E	O6-C6-C7-N7
2	A4	605	P8E	O6-C6-C7-N7
2	A5	603	P8E	O6-C6-C7-N7
2	A5	605	P8E	O6-C6-C7-N7

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Mol	Chain	Res	Type	Atoms
2	A6	603	P8E	O6-C6-C7-N7
2	A6	605	P8E	O6-C6-C7-N7
2	A7	603	P8E	O6-C6-C7-N7
2	A7	605	P8E	O6-C6-C7-N7
2	A8	603	P8E	O6-C6-C7-N7
2	A8	605	P8E	O6-C6-C7-N7
2	A9	603	P8E	O6-C6-C7-N7
2	A9	605	P8E	O6-C6-C7-N7
2	AA	603	P8E	O6-C6-C7-N7
2	AA	605	P8E	O6-C6-C7-N7
2	AB	603	P8E	O6-C6-C7-N7
2	AB	605	P8E	O6-C6-C7-N7
2	AC	603	P8E	O6-C6-C7-N7
2	AC	605	P8E	O6-C6-C7-N7
2	AD	603	P8E	O6-C6-C7-N7
2	AD	605	P8E	O6-C6-C7-N7
2	AE	603	P8E	O6-C6-C7-N7
2	AE	605	P8E	O6-C6-C7-N7
2	AF	603	P8E	O6-C6-C7-N7
2	AF	605	P8E	O6-C6-C7-N7
2	AG	603	P8E	O6-C6-C7-N7
2	AG	605	P8E	O6-C6-C7-N7
2	AH	603	P8E	O6-C6-C7-N7
2	AH	605	P8E	O6-C6-C7-N7
2	AI	603	P8E	O6-C6-C7-N7
2	AI	605	P8E	O6-C6-C7-N7
2	AJ	603	P8E	O6-C6-C7-N7
2	AJ	605	P8E	O6-C6-C7-N7
2	AK	603	P8E	O6-C6-C7-N7
2	AK	605	P8E	O6-C6-C7-N7
2	AL	603	P8E	O6-C6-C7-N7
2	AL	605	P8E	O6-C6-C7-N7
2	AM	603	P8E	O6-C6-C7-N7
2	AM	605	P8E	O6-C6-C7-N7
2	AN	603	P8E	O6-C6-C7-N7
2	AN	605	P8E	O6-C6-C7-N7
2	AO	603	P8E	O6-C6-C7-N7
2	AO	605	P8E	O6-C6-C7-N7
2	AP	603	P8E	O6-C6-C7-N7
2	AP	605	P8E	O6-C6-C7-N7
2	AQ	603	P8E	O6-C6-C7-N7
2	AQ	605	P8E	O6-C6-C7-N7

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Mol	Chain	Res	Type	Atoms
2	AR	603	P8E	O6-C6-C7-N7
2	AR	605	P8E	O6-C6-C7-N7
2	AS	603	P8E	O6-C6-C7-N7
2	AS	605	P8E	O6-C6-C7-N7
2	AT	603	P8E	O6-C6-C7-N7
2	AT	605	P8E	O6-C6-C7-N7
2	AU	603	P8E	O6-C6-C7-N7
2	AU	605	P8E	O6-C6-C7-N7
2	AV	603	P8E	O6-C6-C7-N7
2	AV	605	P8E	O6-C6-C7-N7
2	AW	603	P8E	O6-C6-C7-N7
2	AW	605	P8E	O6-C6-C7-N7
2	AX	603	P8E	O6-C6-C7-N7
2	AX	605	P8E	O6-C6-C7-N7
2	AA	608	P8E	O6-C6-C7-C8
2	AE	608	P8E	O6-C6-C7-C8
2	AJ	608	P8E	O6-C6-C7-C8
2	AK	608	P8E	O6-C6-C7-C8
2	AN	608	P8E	O6-C6-C7-C8
2	AQ	608	P8E	O6-C6-C7-C8
2	AT	608	P8E	O6-C6-C7-C8
2	AU	608	P8E	O6-C6-C7-C8

There are no ring outliers.

80 monomers are involved in 99 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A3	602	P8E	1	0
2	AJ	602	P8E	1	0
2	AS	609	P8E	1	0
2	AE	609	P8E	1	0
2	AU	609	P8E	1	0
2	A6	606	P8E	2	0
2	A8	602	P8E	1	0
2	A7	609	P8E	1	0
2	AP	606	P8E	1	0
2	AP	602	P8E	1	0
2	A3	609	P8E	1	0
2	AL	602	P8E	1	0
2	AE	602	P8E	1	0
2	A8	606	P8E	1	0
2	AB	609	P8E	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	AT	602	P8E	1	0
2	AW	606	P8E	2	0
2	AI	602	P8E	1	0
2	A1	606	P8E	2	0
2	A3	606	P8E	2	0
2	A4	602	P8E	1	0
2	AC	609	P8E	1	0
2	AN	609	P8E	1	0
2	AV	606	P8E	2	0
2	AU	608	P8E	1	0
2	AL	606	P8E	2	0
2	AL	609	P8E	1	0
2	AN	602	P8E	1	0
2	A7	602	P8E	1	0
2	AN	608	P8E	1	0
2	AM	606	P8E	2	0
2	AD	602	P8E	1	0
2	AD	606	P8E	2	0
2	A8	609	P8E	1	0
2	A4	606	P8E	2	0
2	A5	606	P8E	1	0
2	A4	609	P8E	1	0
2	A6	609	P8E	1	0
2	AP	609	P8E	1	0
2	AS	602	P8E	1	0
2	A7	606	P8E	2	0
2	A1	609	P8E	1	0
2	AK	602	P8E	1	0
2	AJ	609	P8E	1	0
2	A2	609	P8E	1	0
2	AR	602	P8E	1	0
2	A5	602	P8E	1	0
2	AF	609	P8E	1	0
2	AG	609	P8E	1	0
2	AT	609	P8E	1	0
2	AR	609	P8E	1	0
2	AU	602	P8E	1	0
2	AV	609	P8E	1	0
2	AX	606	P8E	2	0
2	AA	606	P8E	2	0
2	AA	609	P8E	1	0
2	AF	606	P8E	1	0

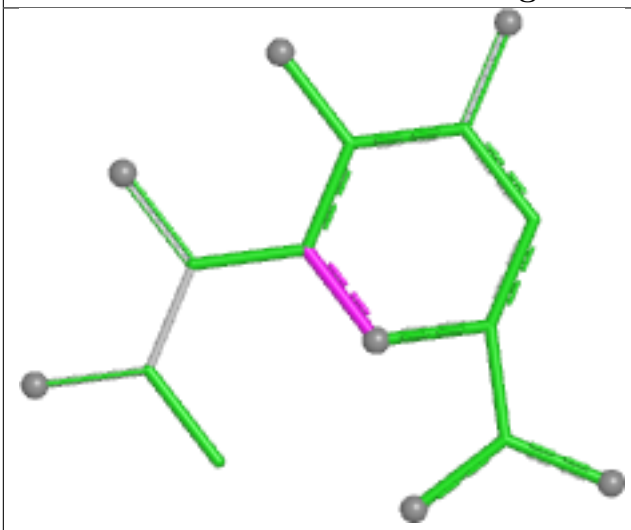
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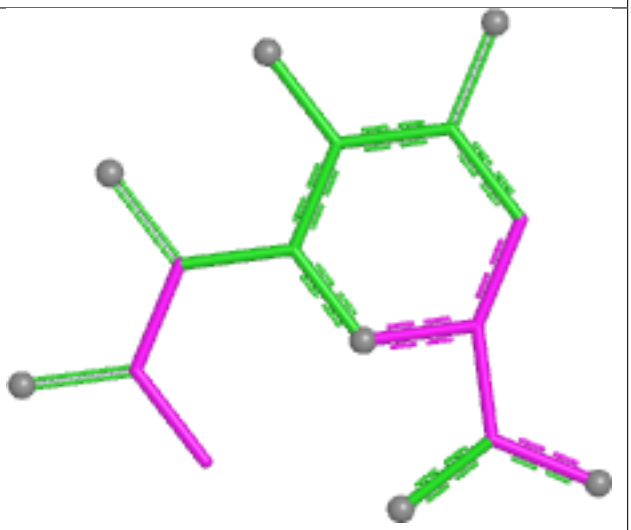
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	AQ	609	P8E	1	0
2	AO	602	P8E	1	0
2	A5	609	P8E	1	0
2	A2	606	P8E	2	0
2	AO	609	P8E	1	0
2	AC	602	P8E	1	0
2	AM	609	P8E	1	0
2	AK	609	P8E	1	0
2	AQ	606	P8E	2	0
2	A9	606	P8E	2	0
2	AI	609	P8E	1	0
2	A9	609	P8E	1	0
2	AB	606	P8E	2	0
2	AH	609	P8E	1	0
2	AX	602	P8E	1	0
2	AH	602	P8E	1	0
2	AC	606	P8E	2	0
2	AG	602	P8E	1	0
2	AX	609	P8E	1	0
2	AJ	606	P8E	2	0
2	AE	606	P8E	2	0
2	AW	609	P8E	1	0
2	AD	609	P8E	1	0

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

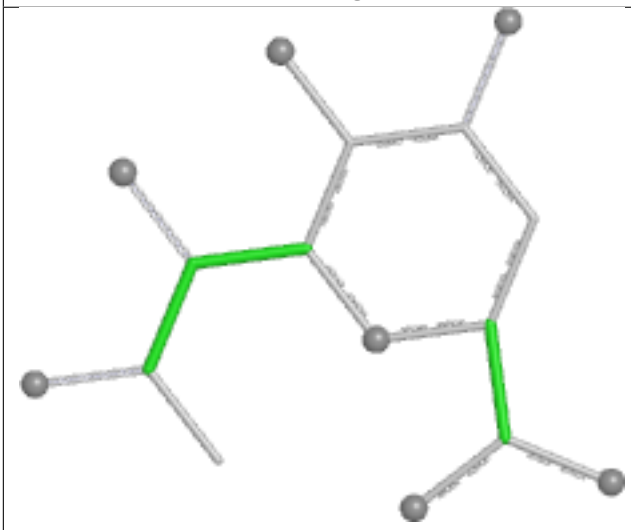
Ligand P8E A3 602



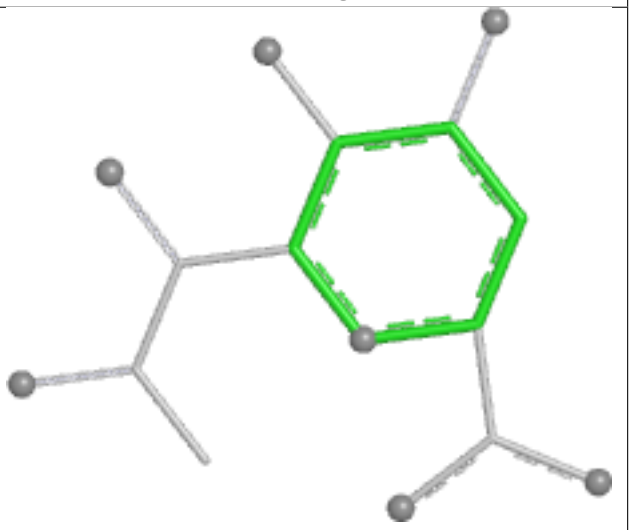
Bond lengths



Bond angles

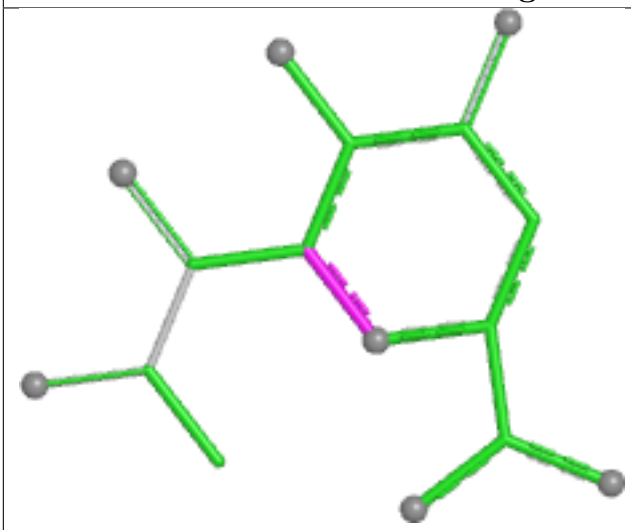


Torsions

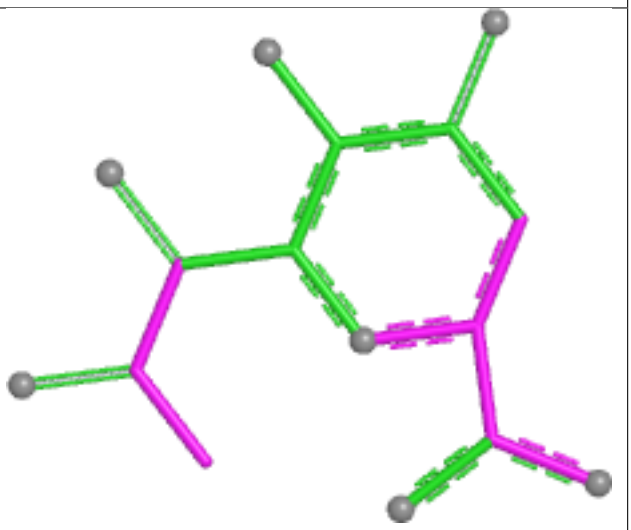


Rings

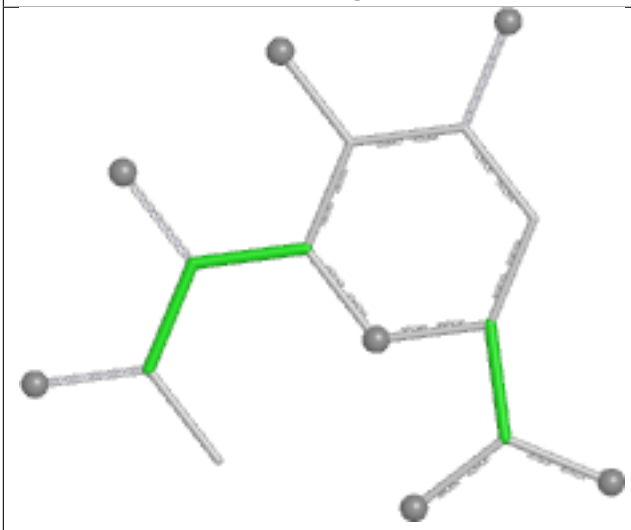
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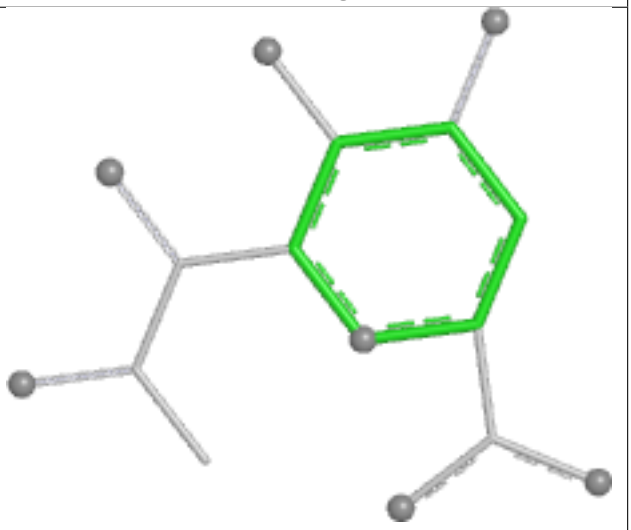
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Bond angles

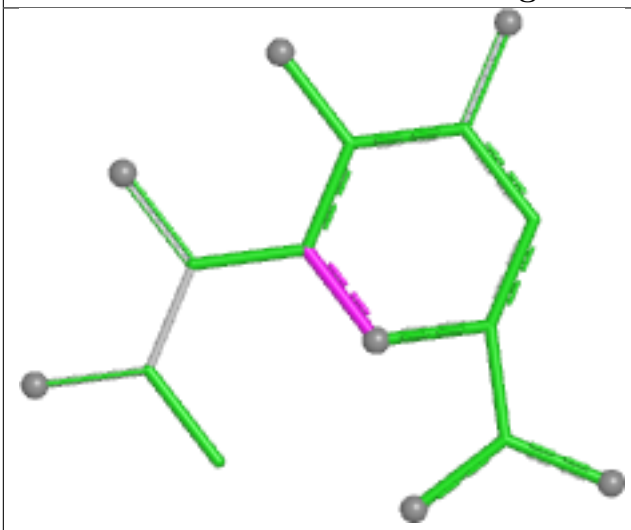


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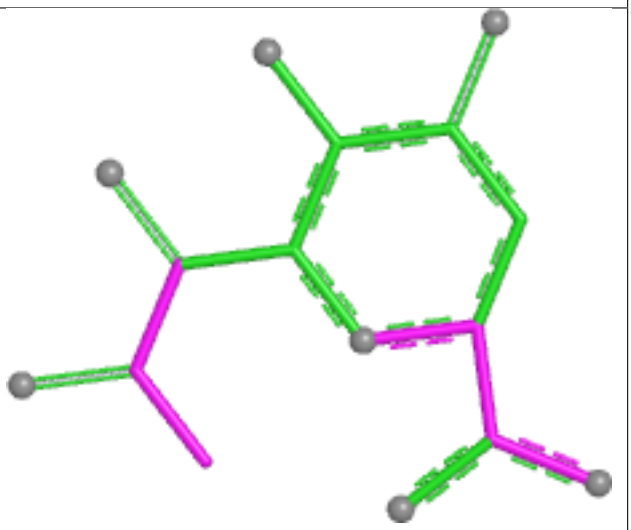


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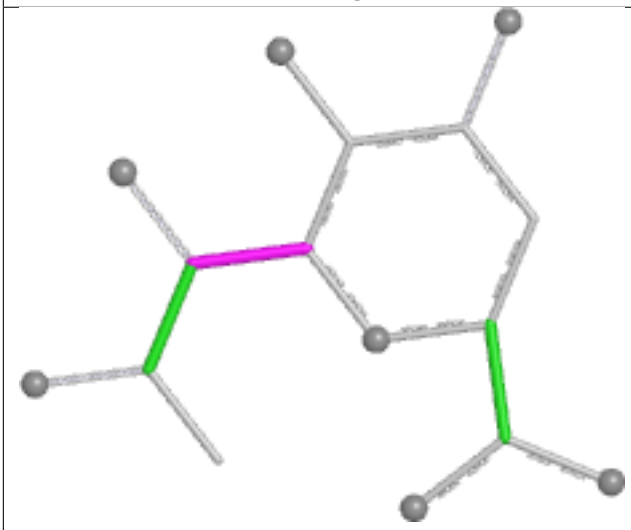
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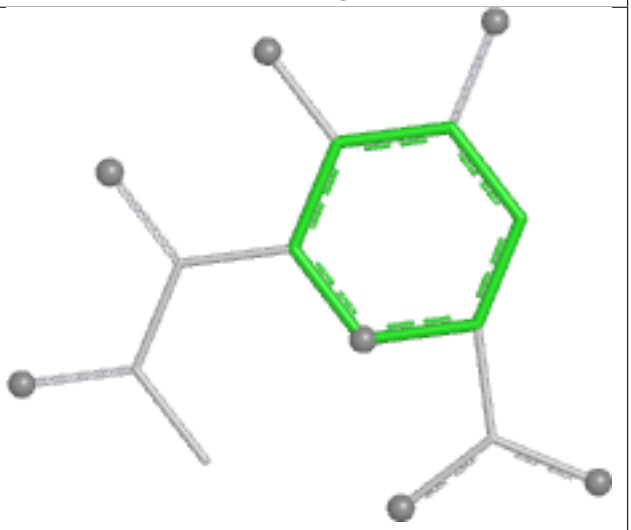
Bond lengths



Bond angles

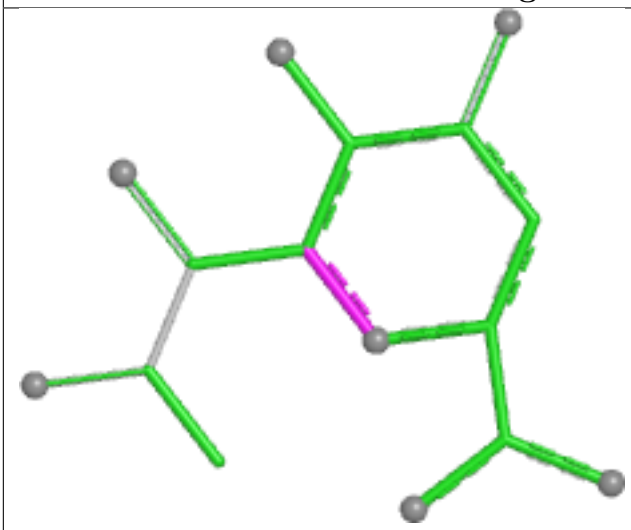


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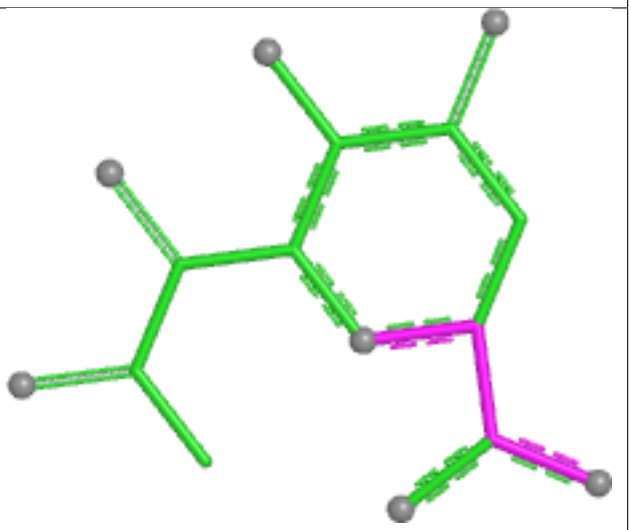


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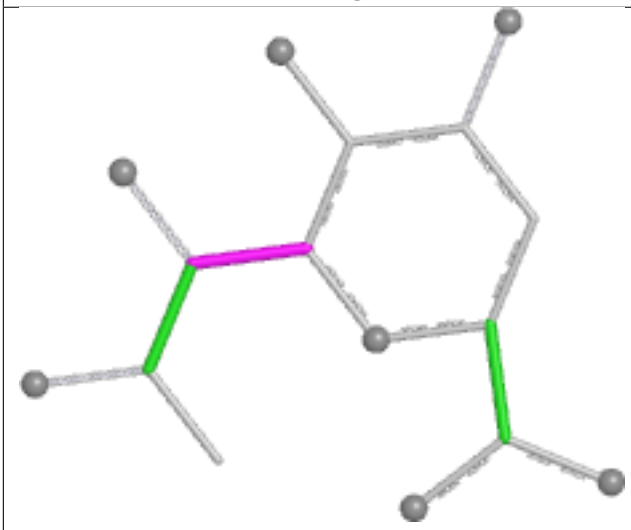
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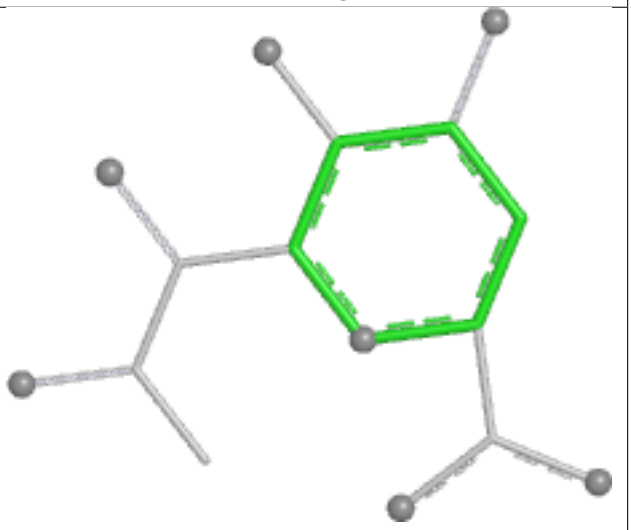
Bond lengths



Bond angles

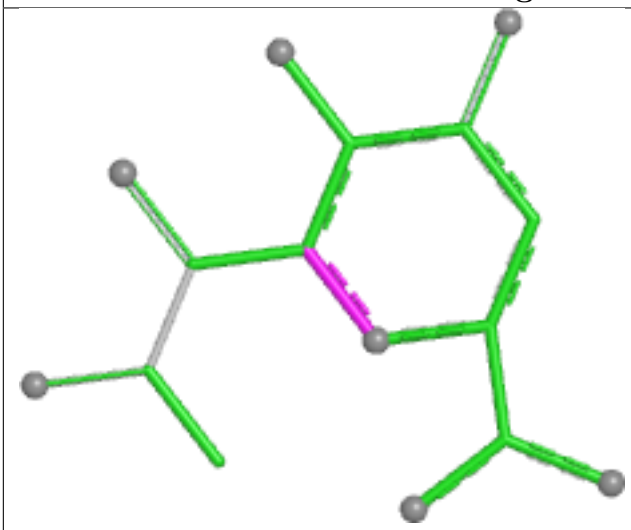


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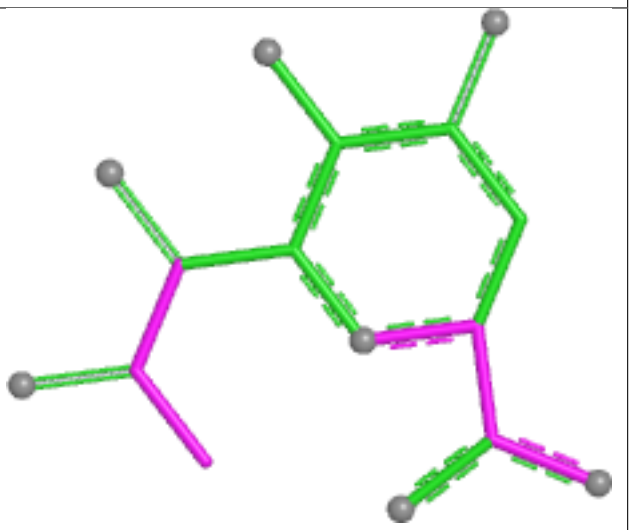


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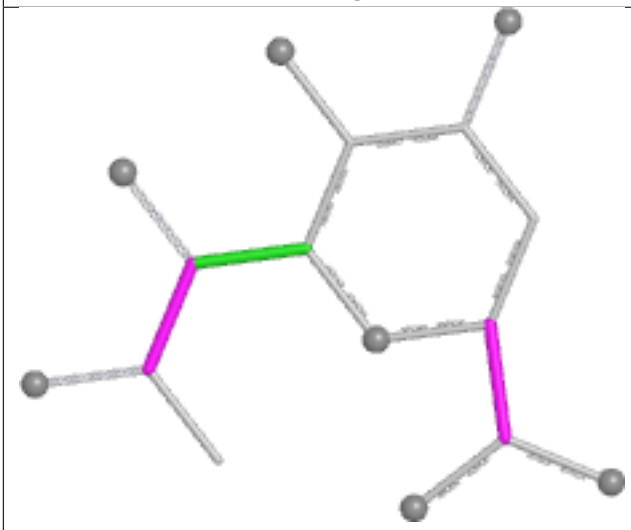
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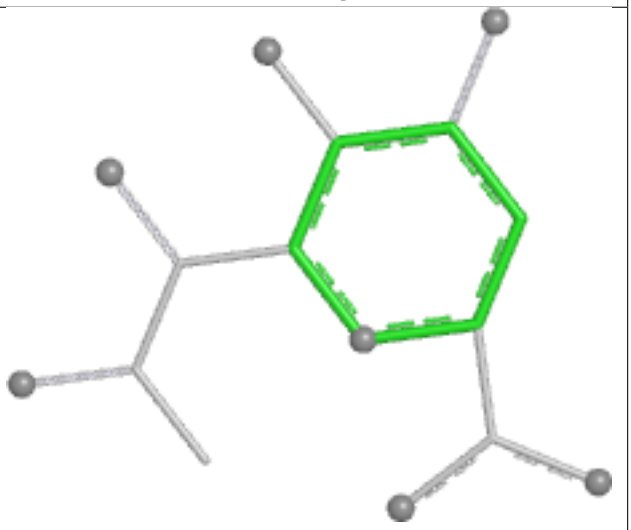
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Bond angles

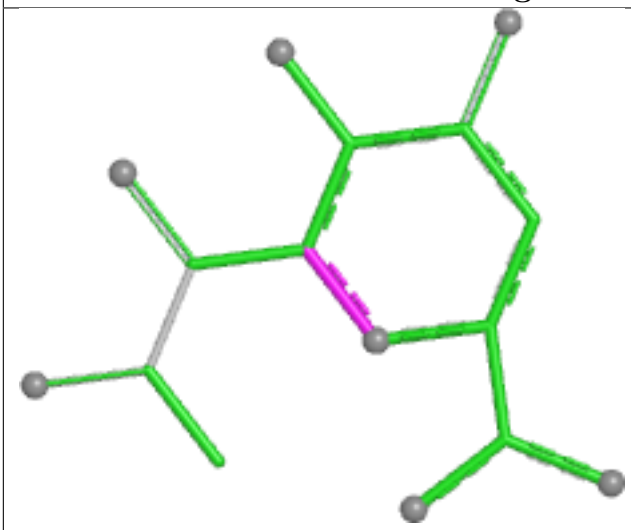


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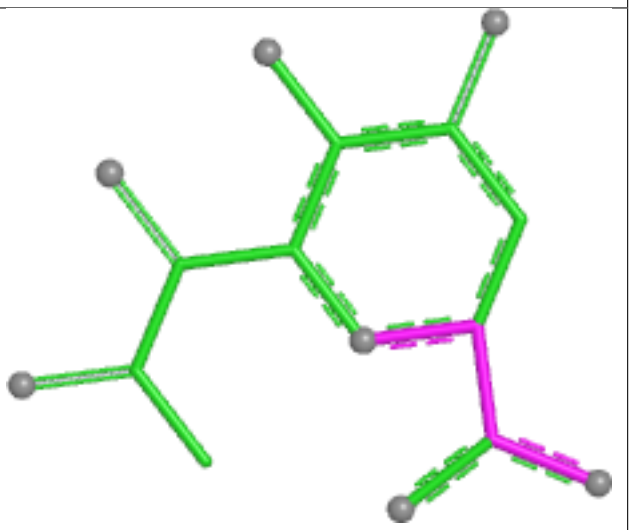


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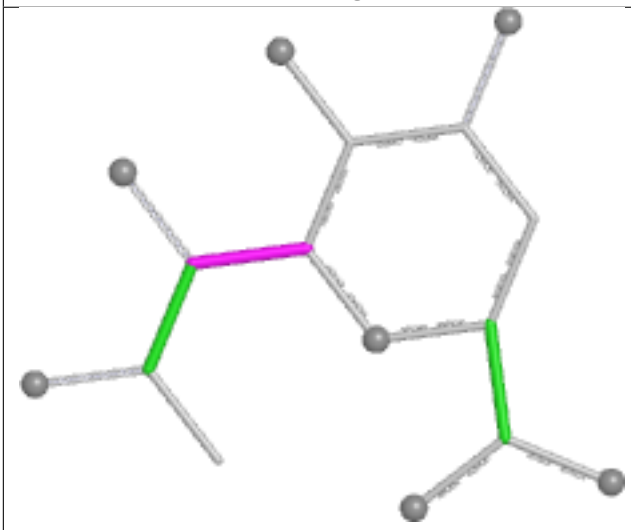
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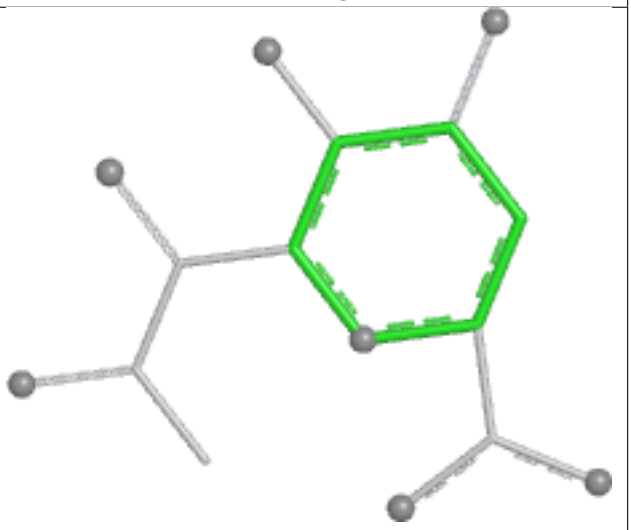
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Bond angles

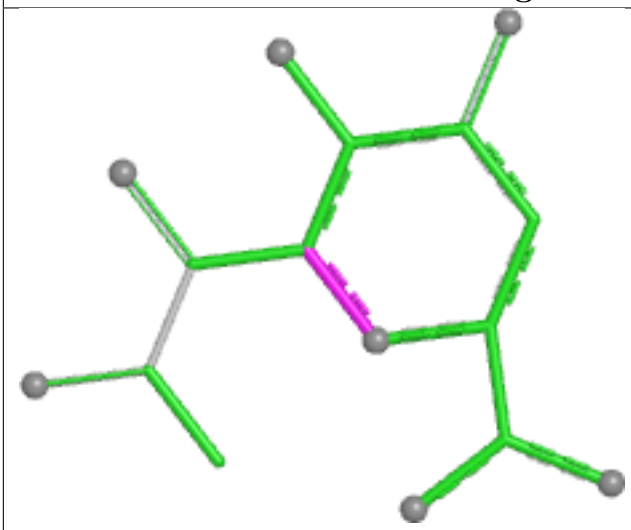


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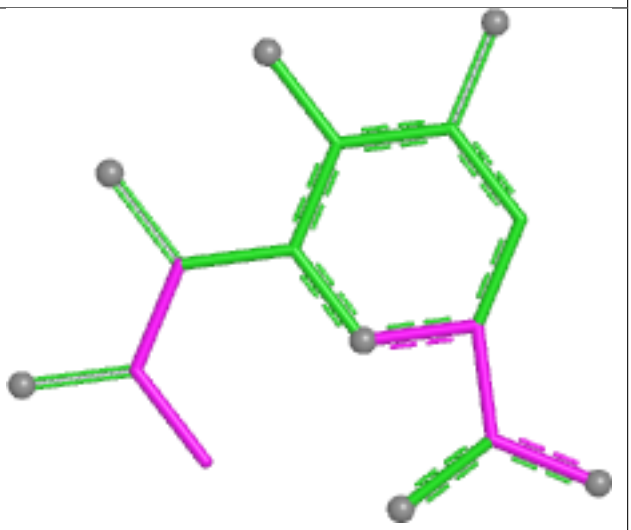


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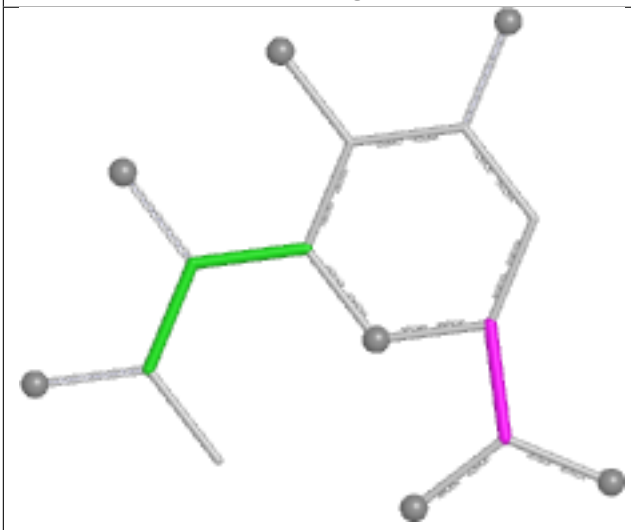
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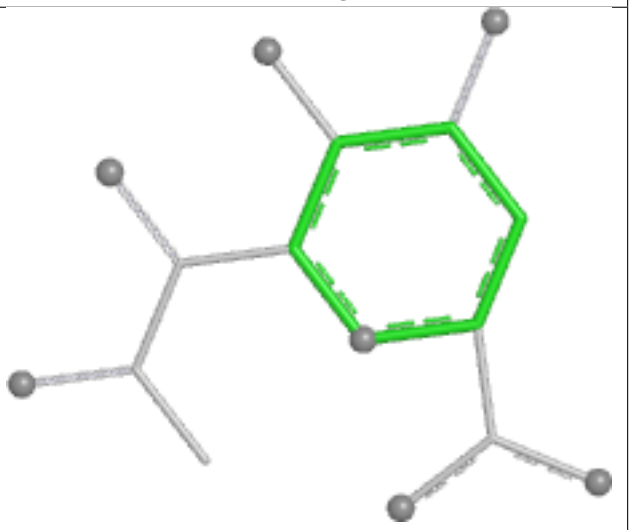
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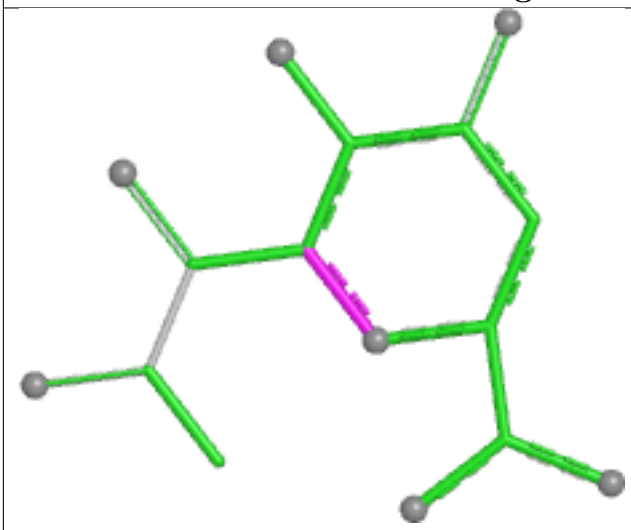


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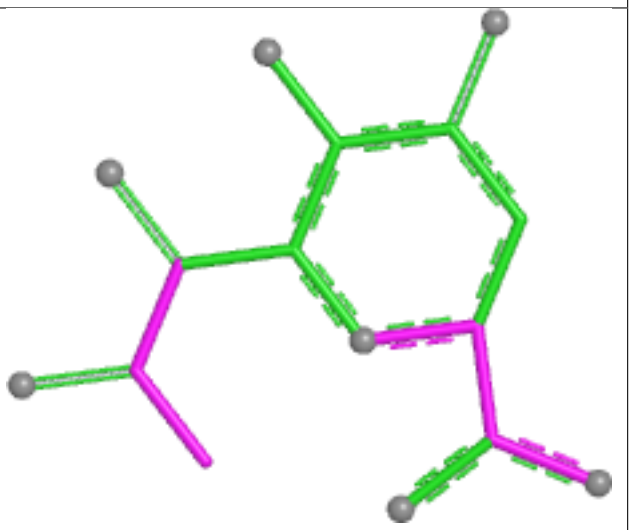


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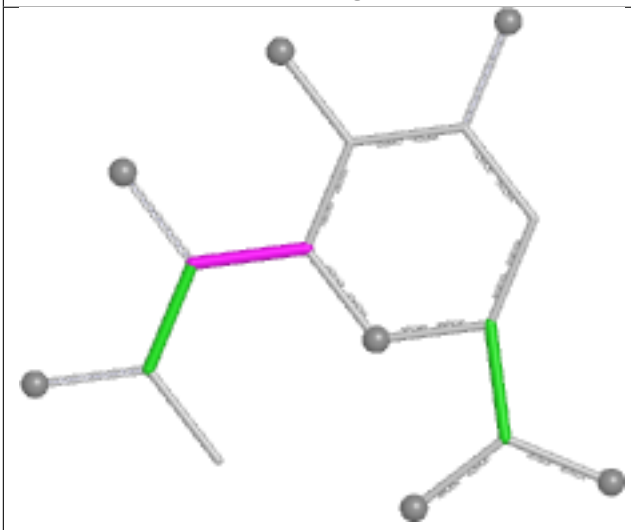
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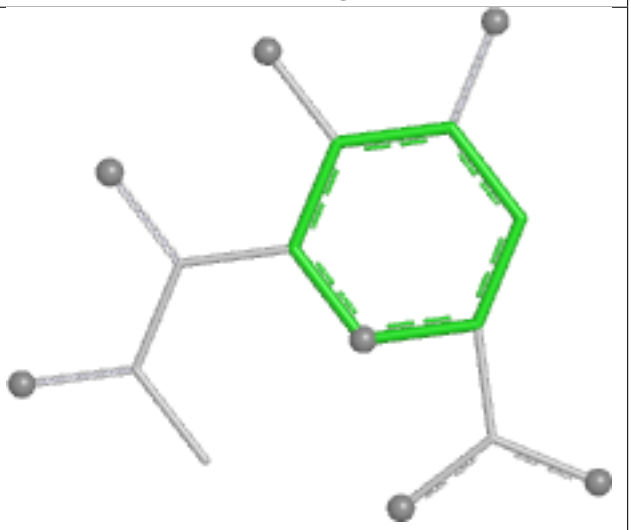
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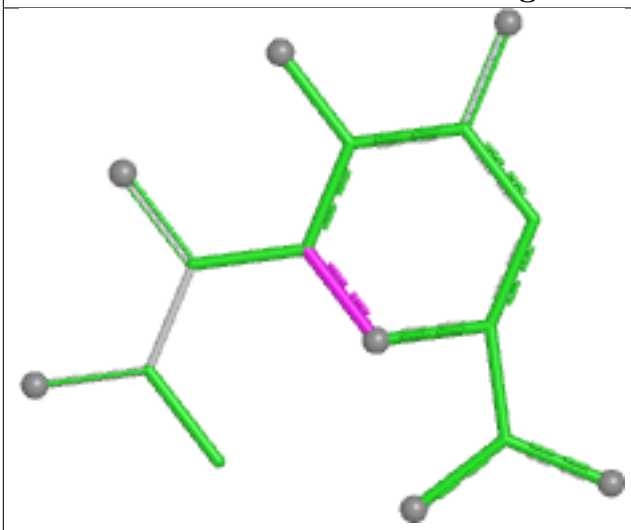


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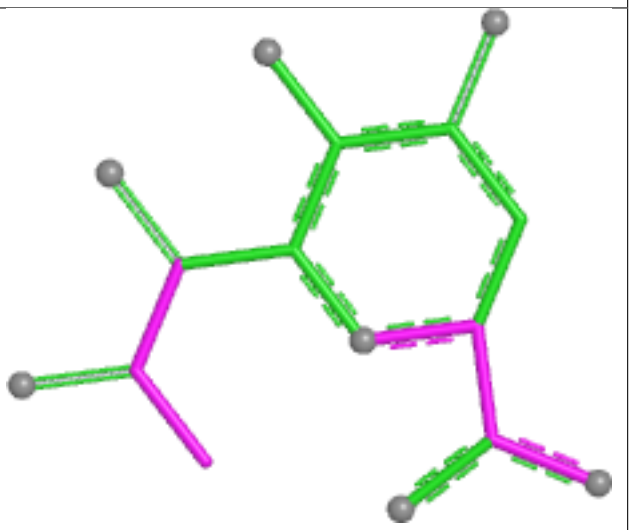


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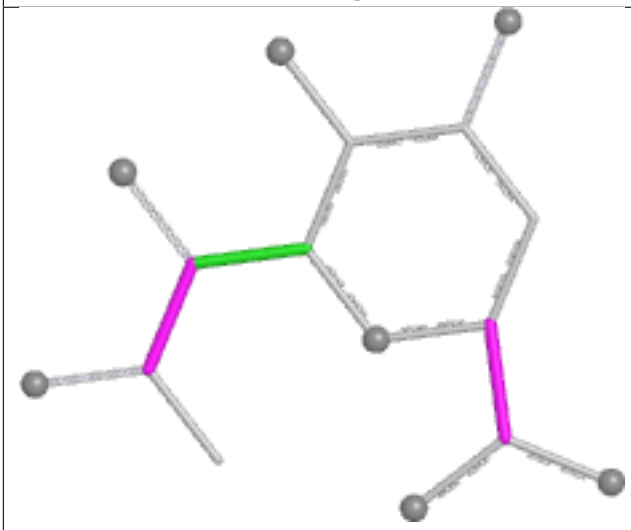
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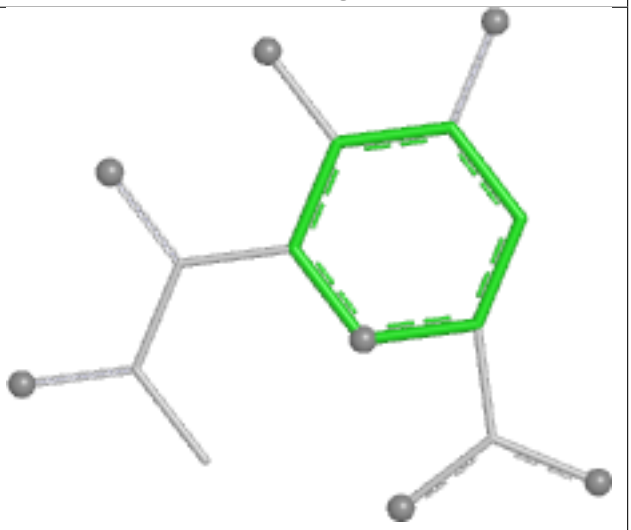
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Bond angles

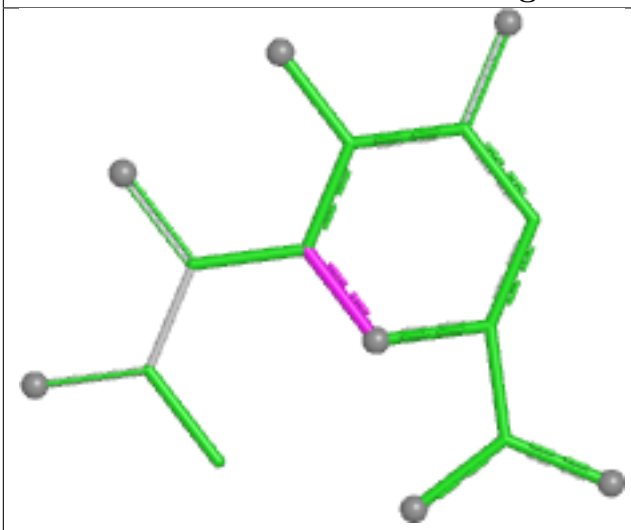


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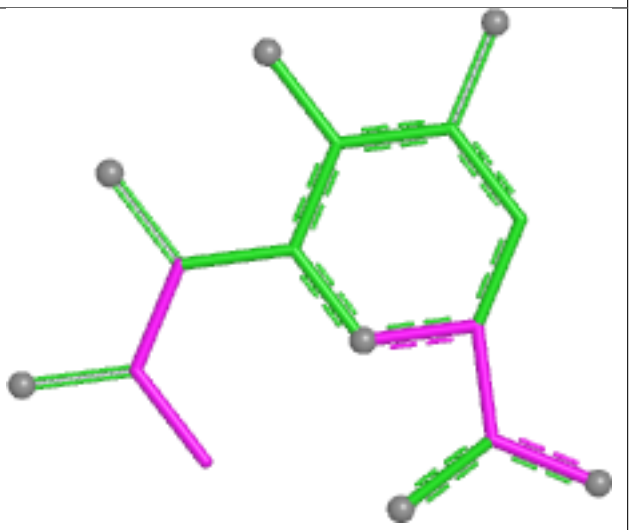


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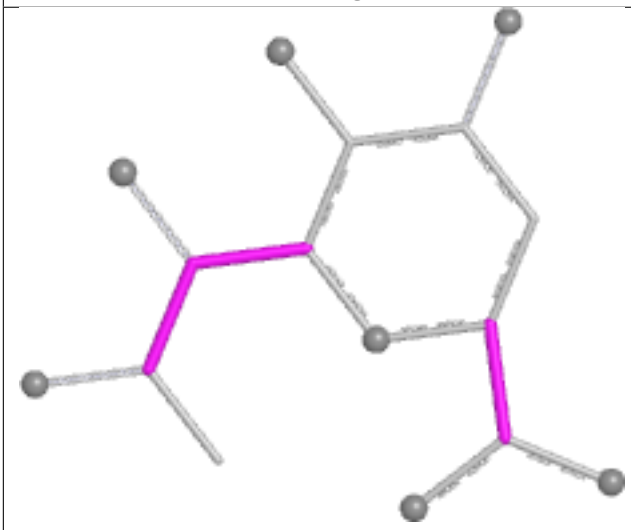
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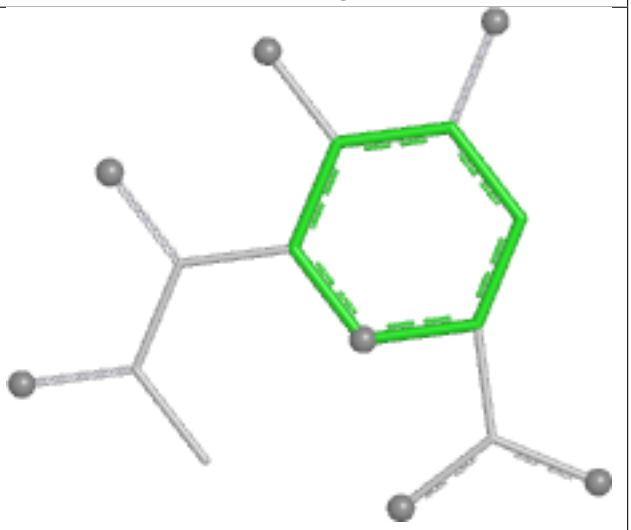
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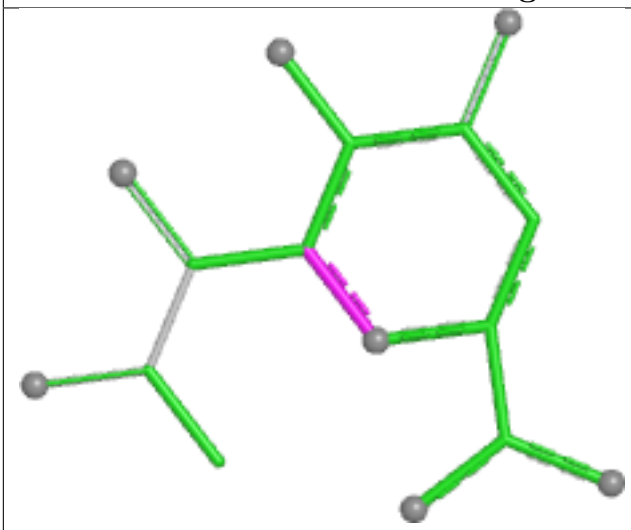


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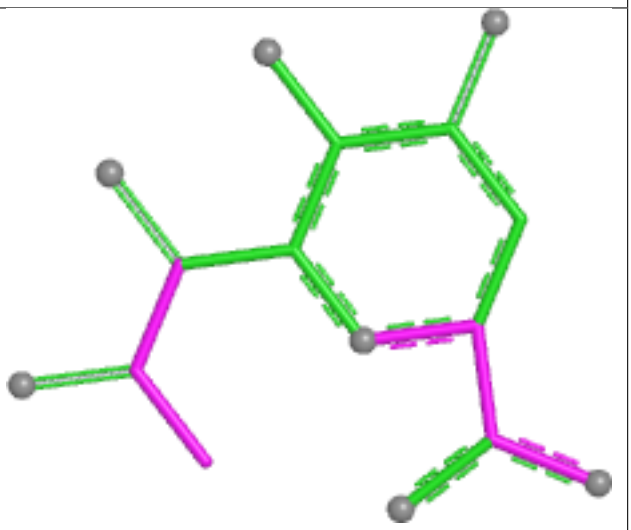


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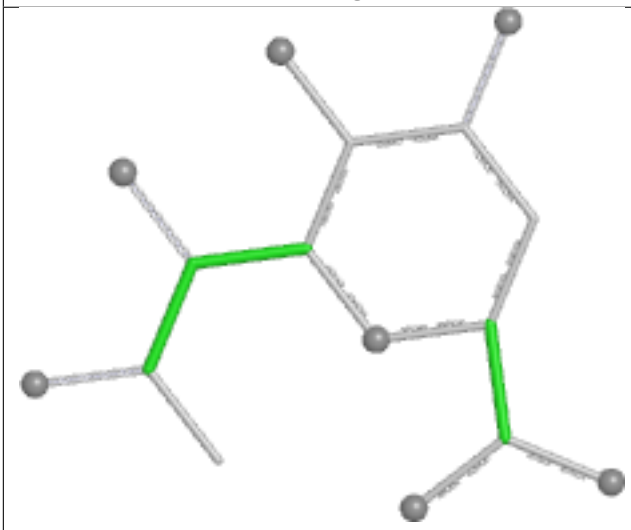
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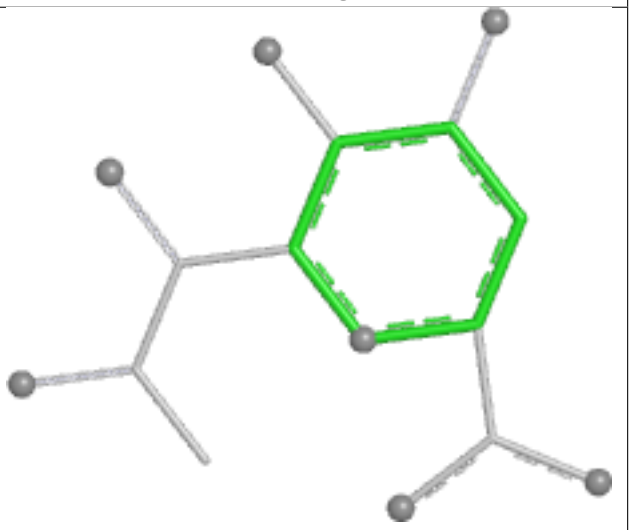
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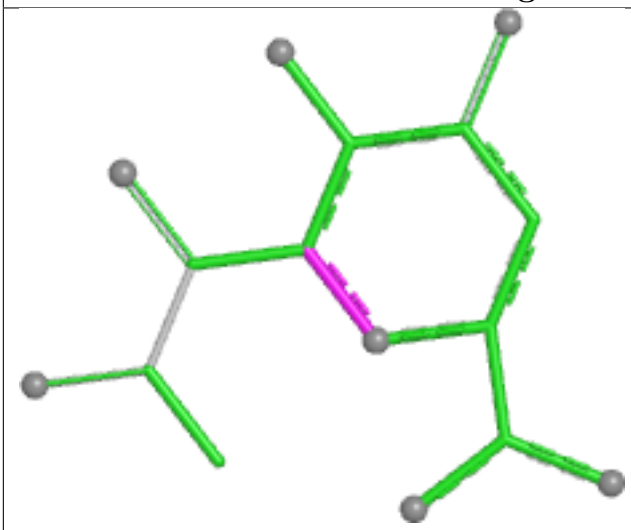


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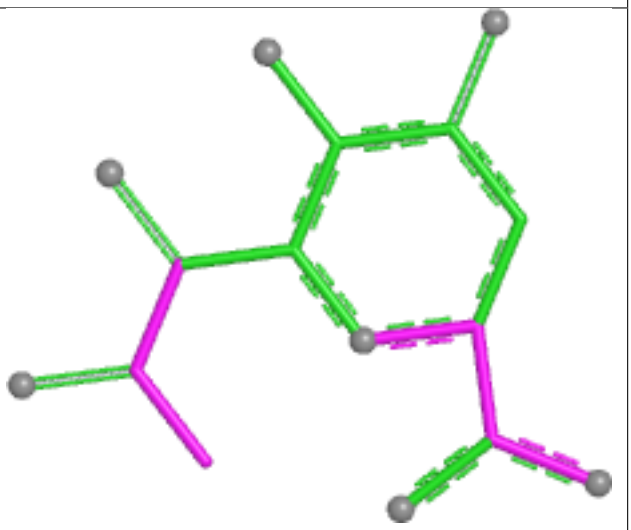


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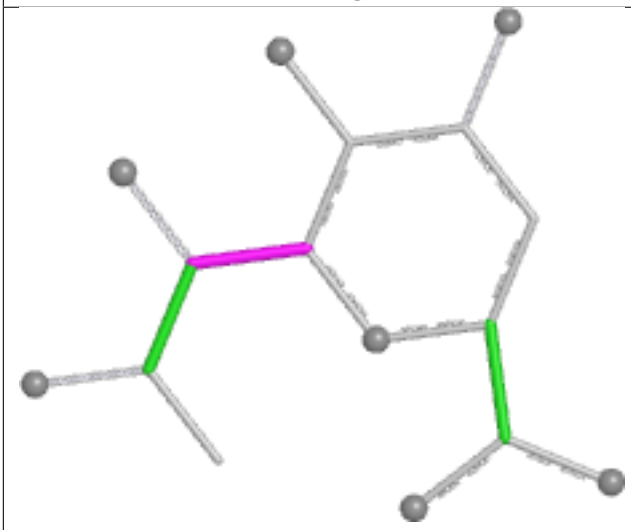
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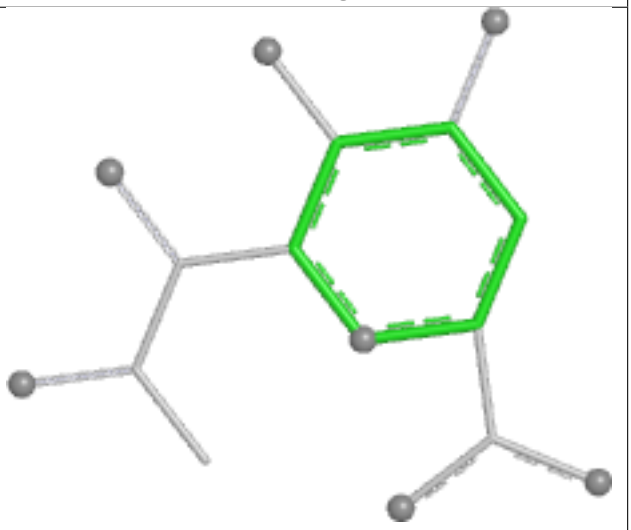
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Bond angles

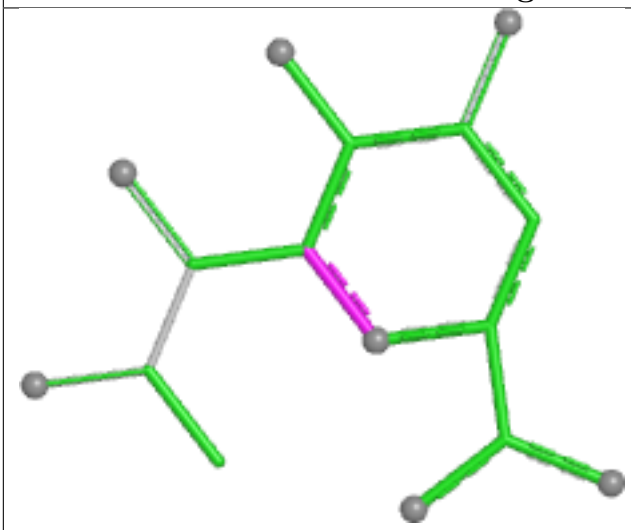


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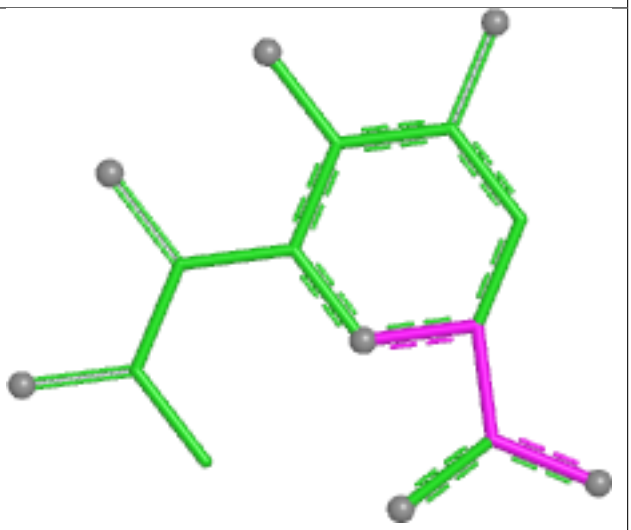


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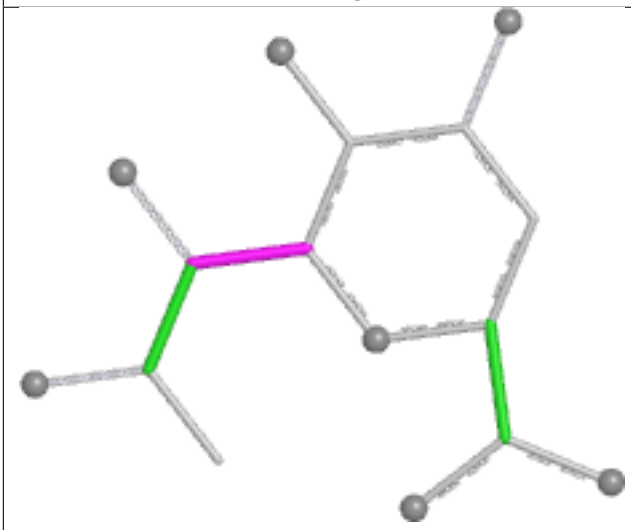
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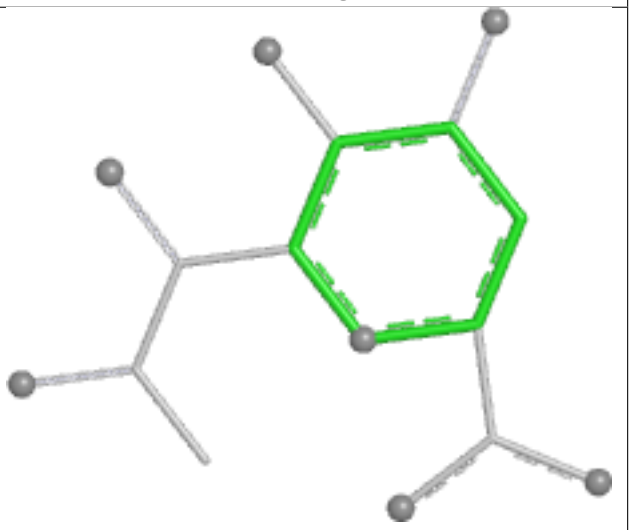
Bond lengths



Bond angles

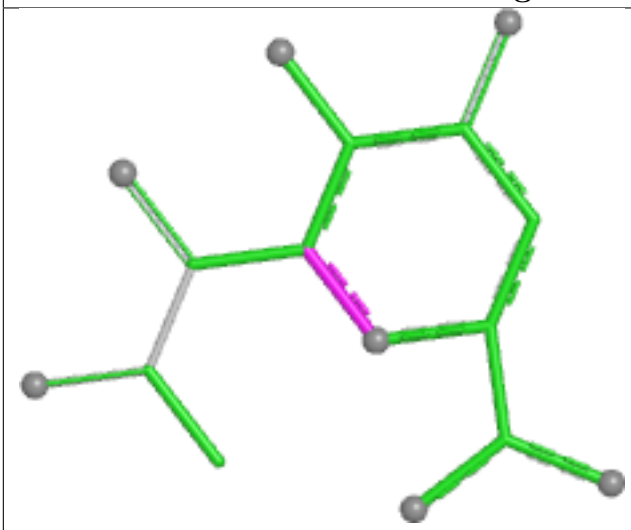


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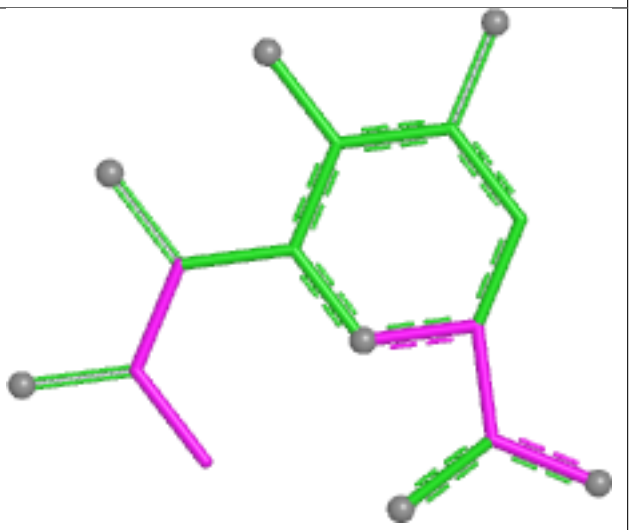


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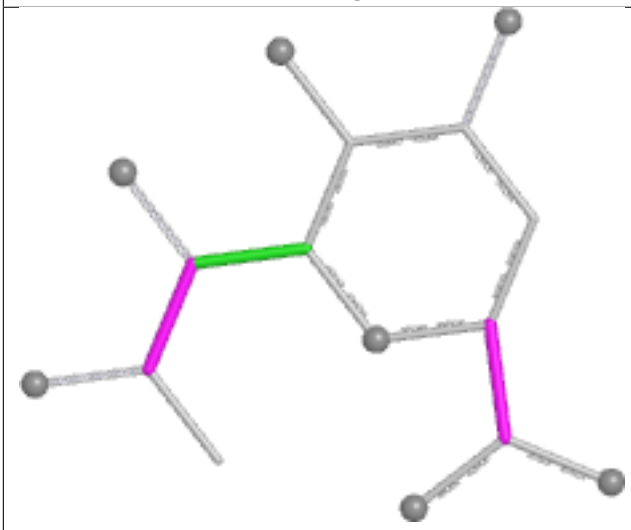
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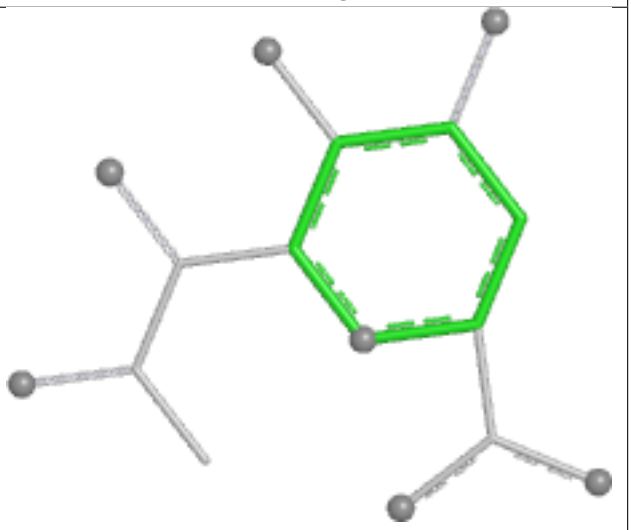
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Bond angles

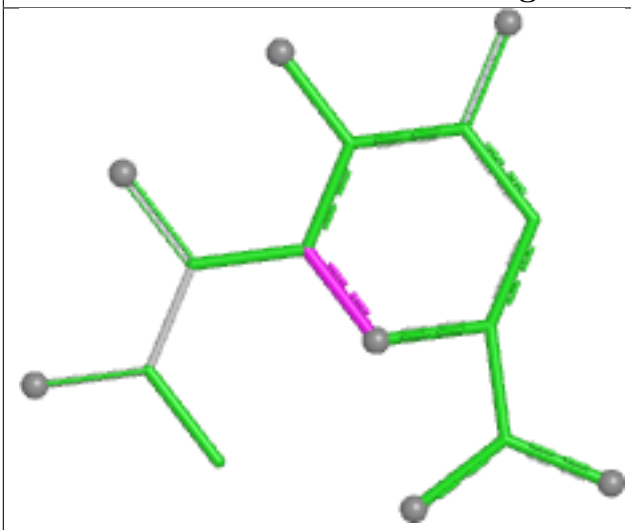


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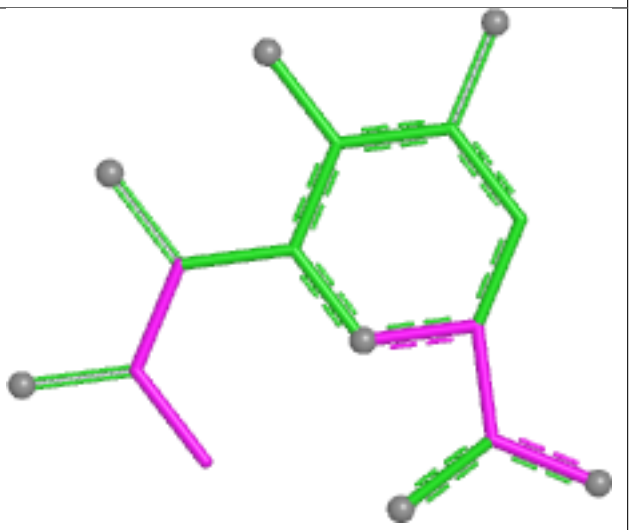


Rings

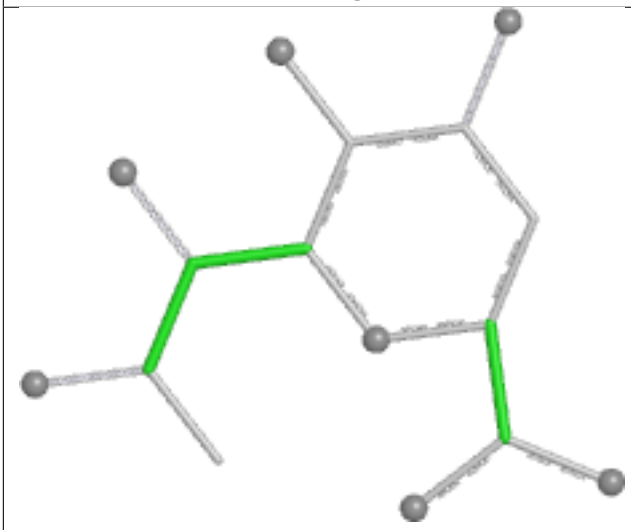
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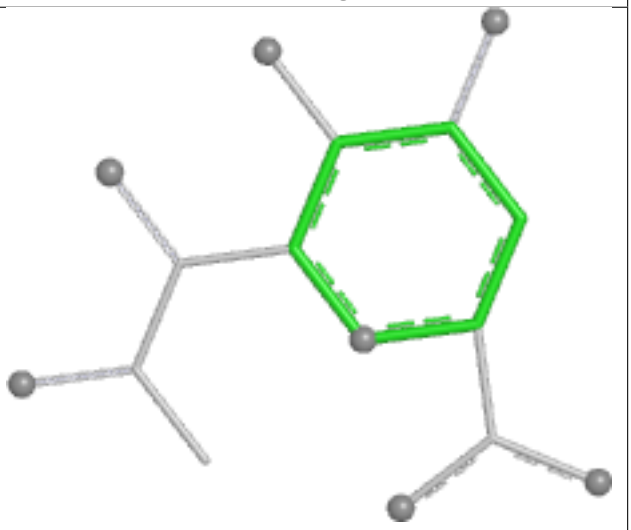
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Bond angles

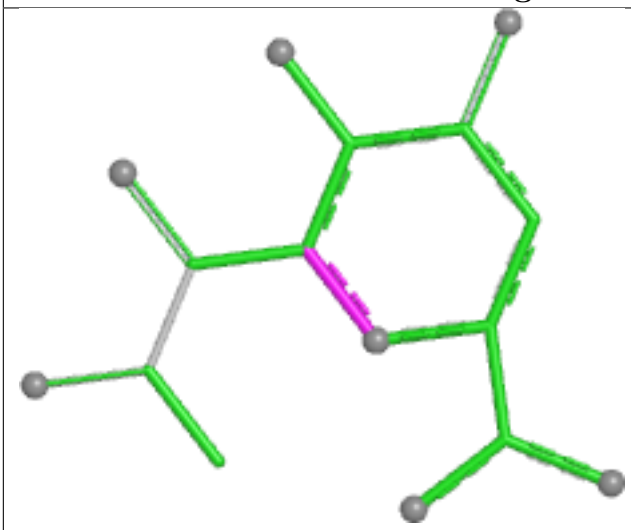


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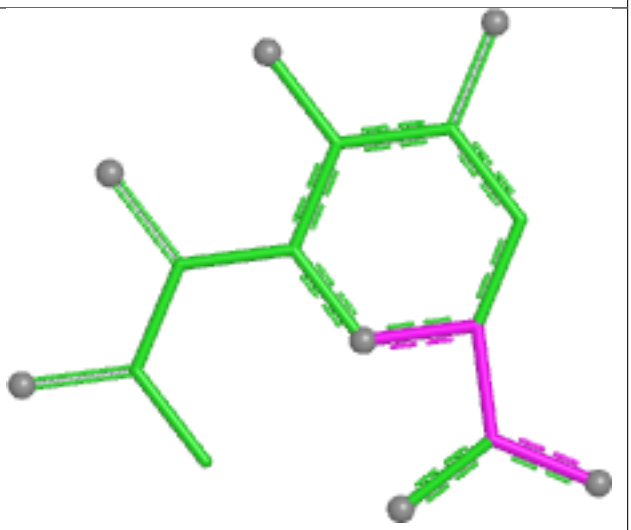


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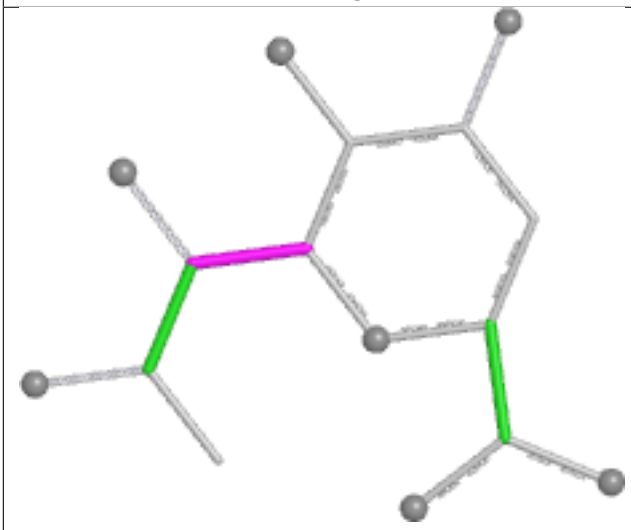
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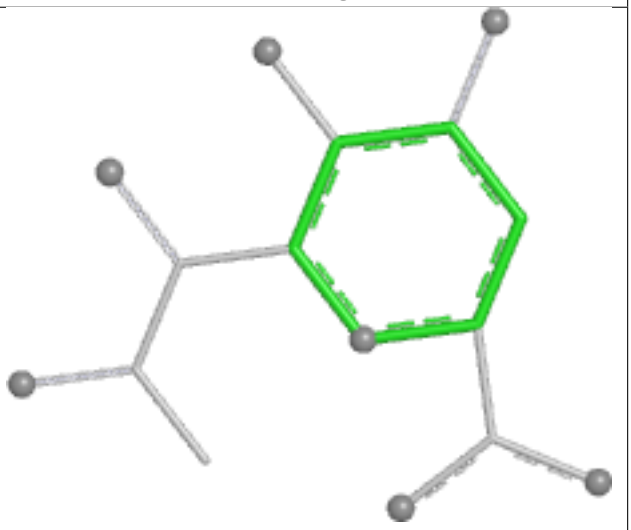
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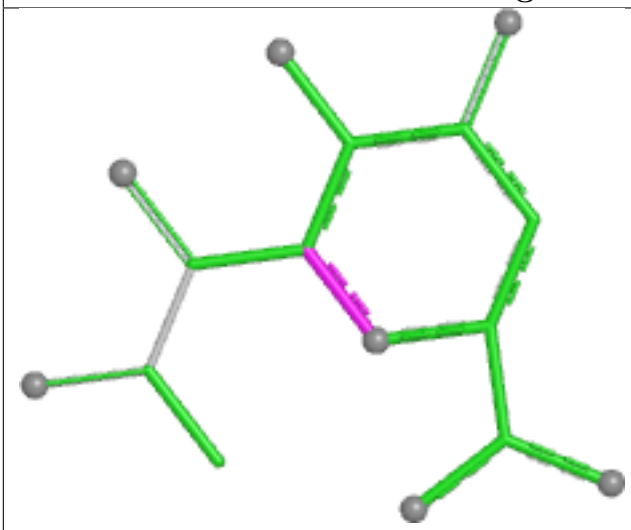


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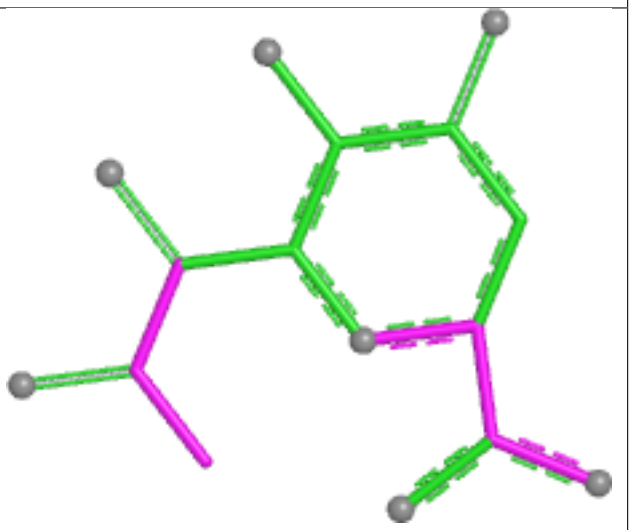


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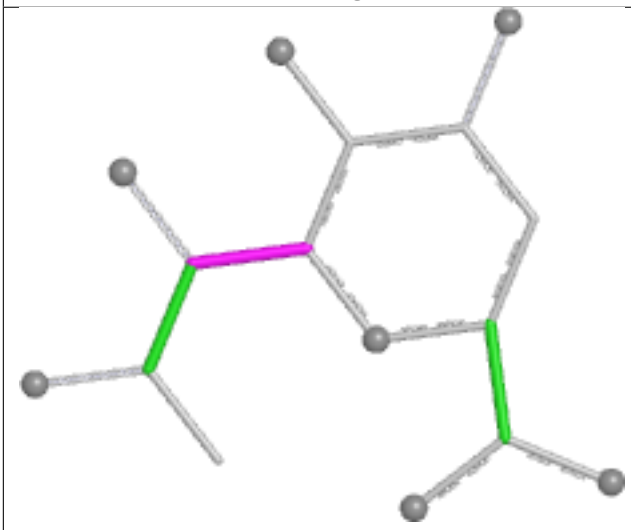
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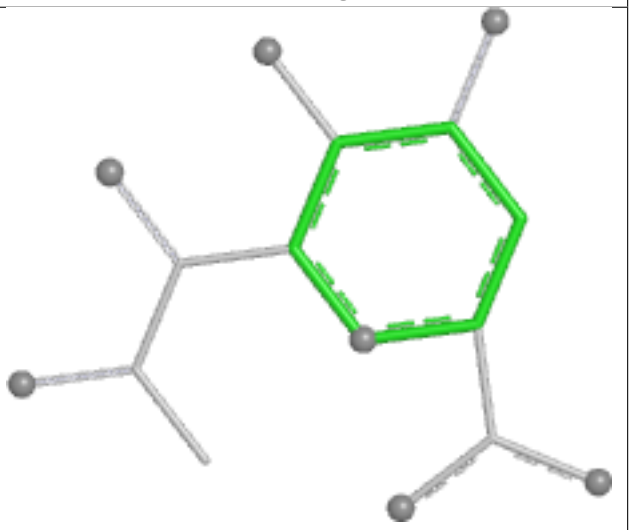
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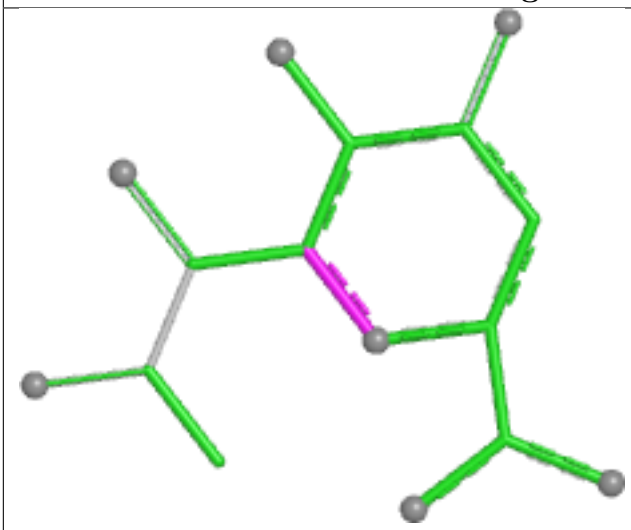


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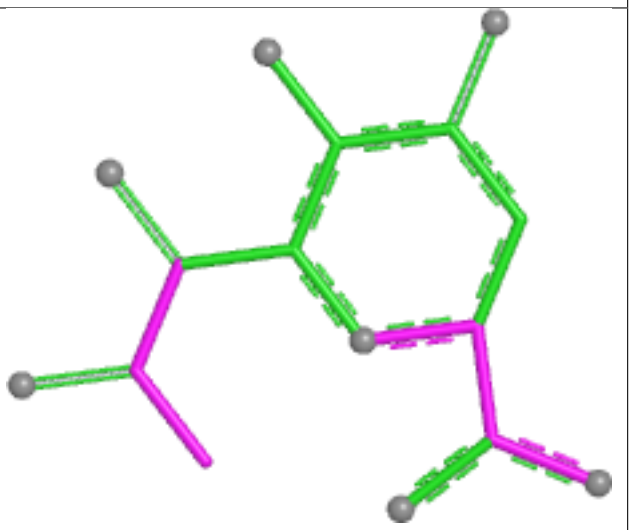


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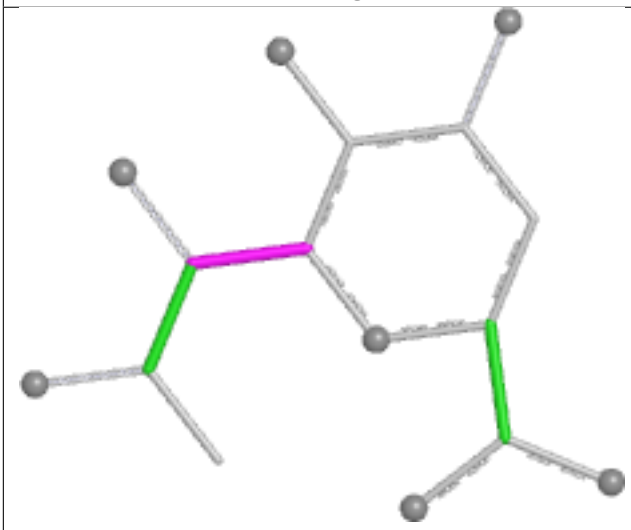
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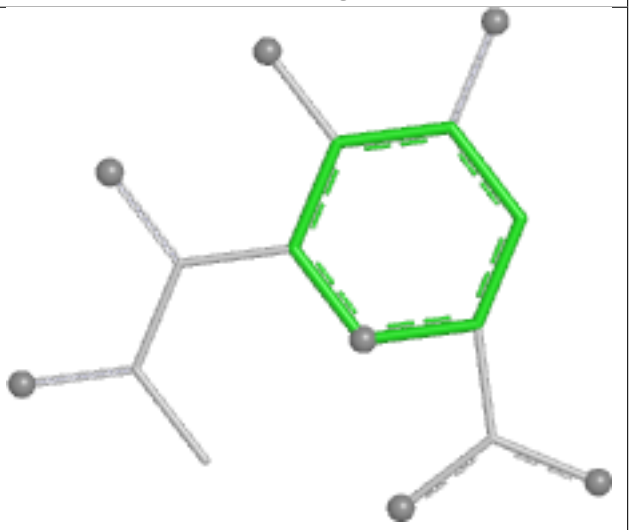
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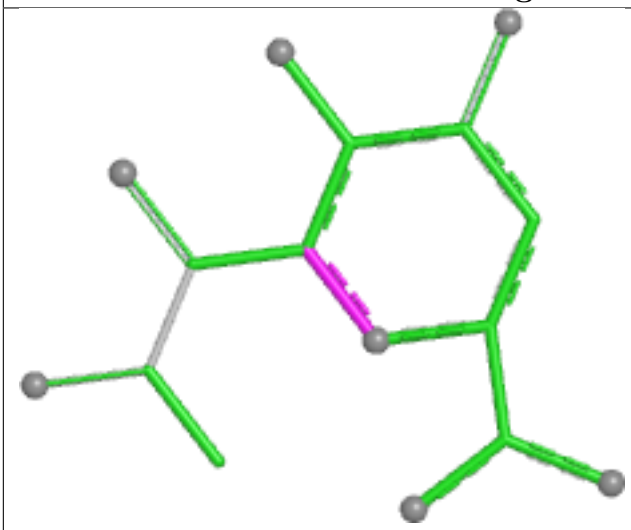


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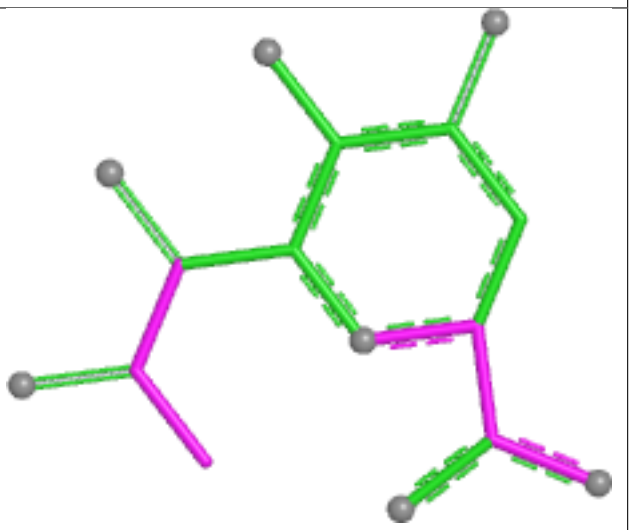


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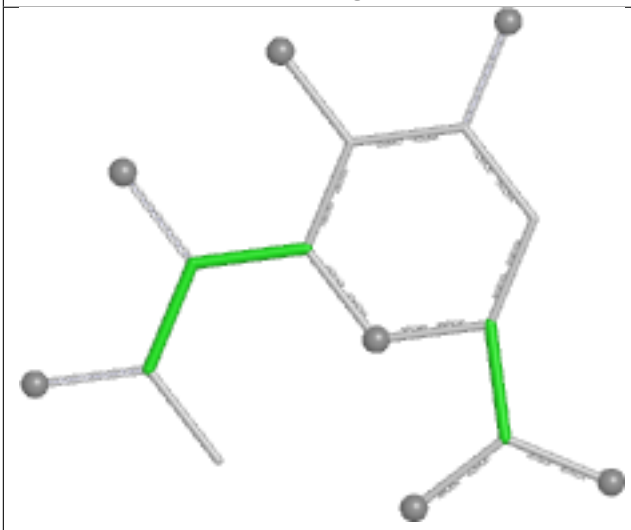
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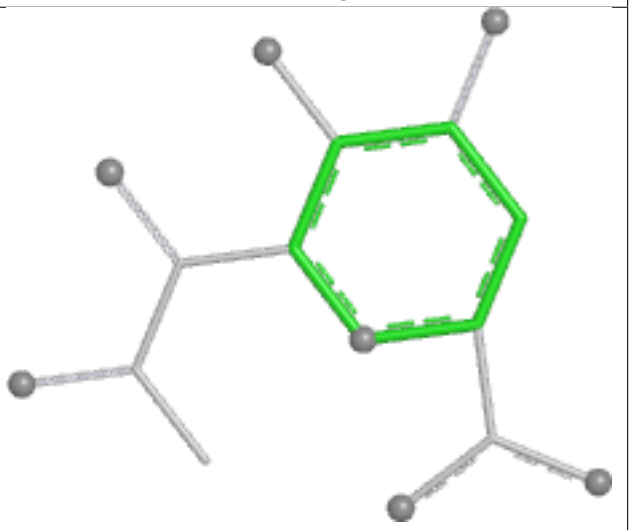
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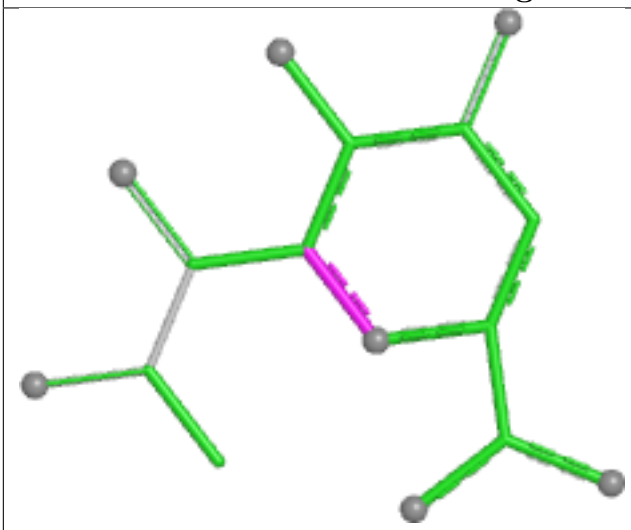


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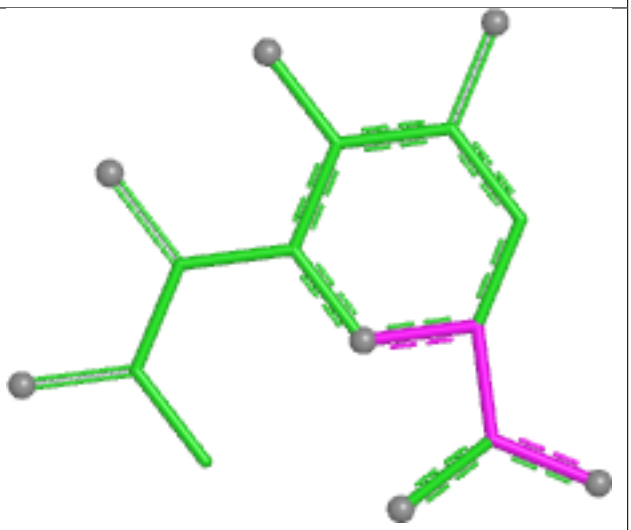


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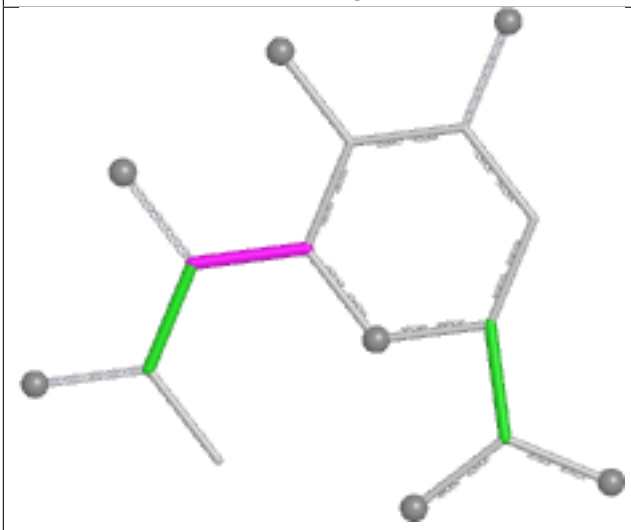
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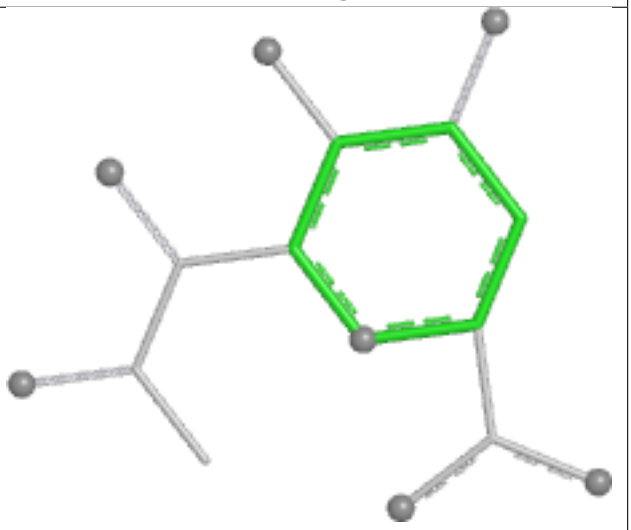
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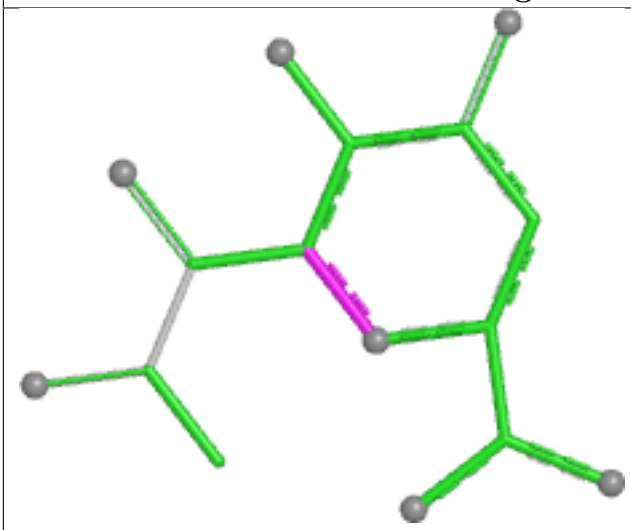


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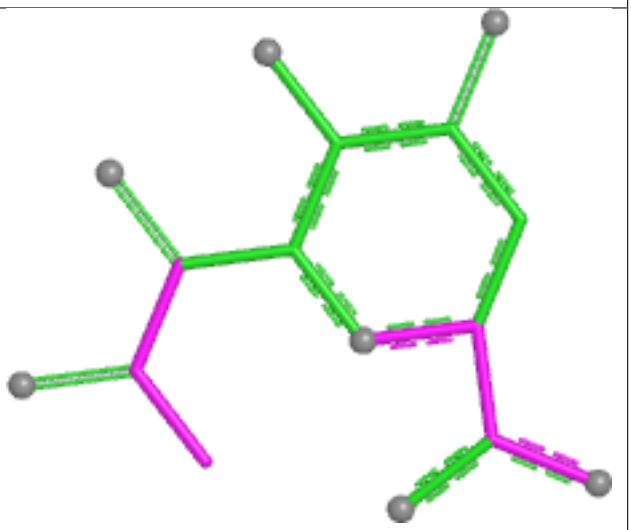


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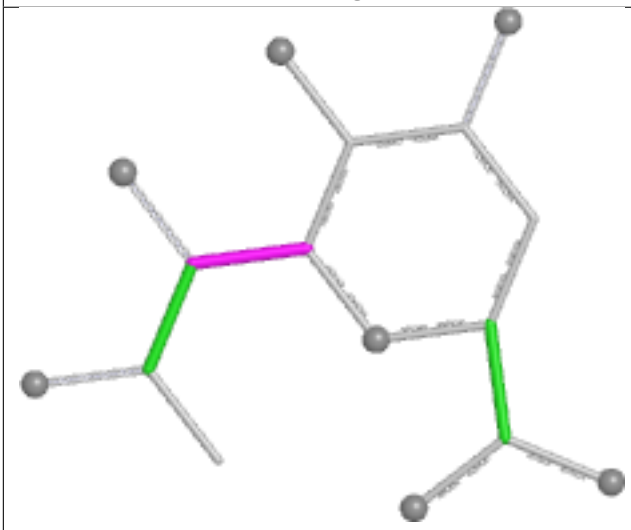
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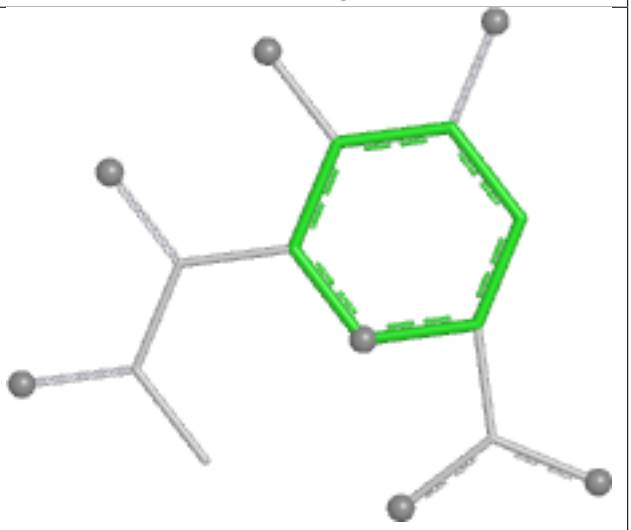
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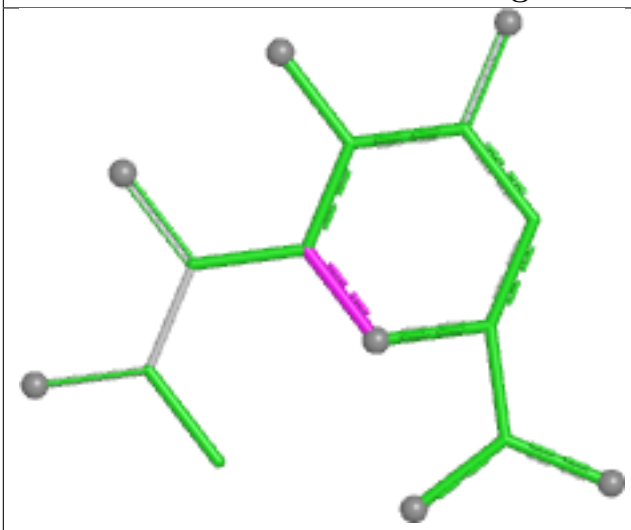


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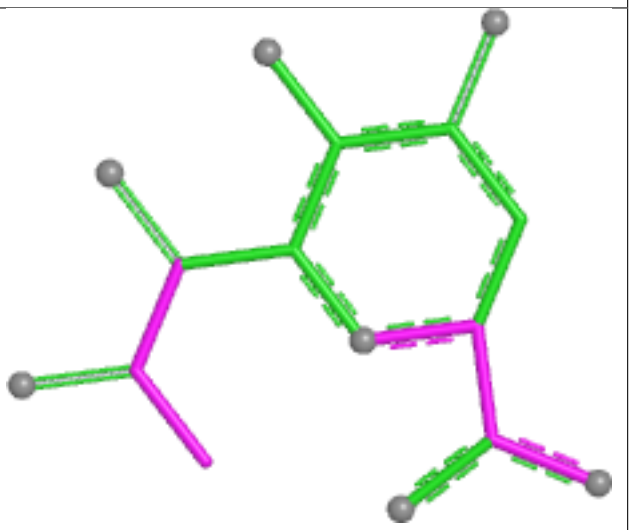


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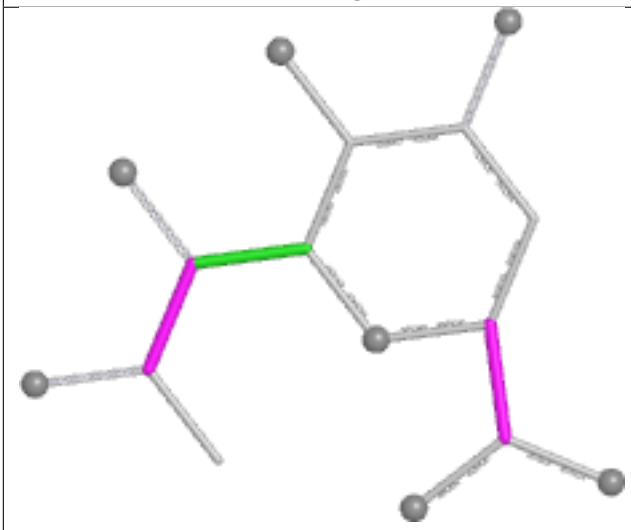
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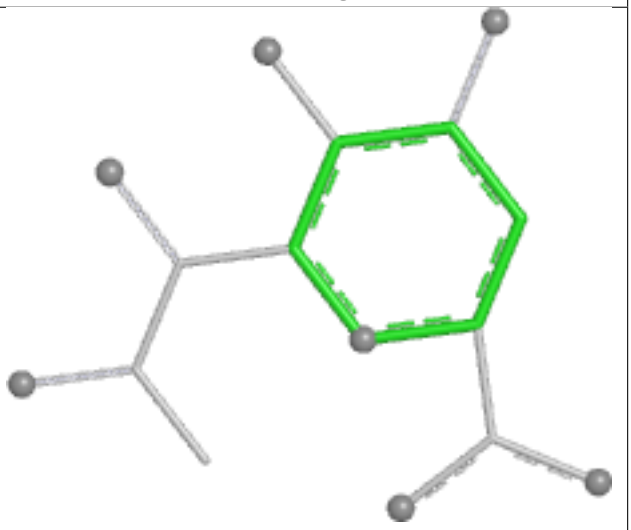
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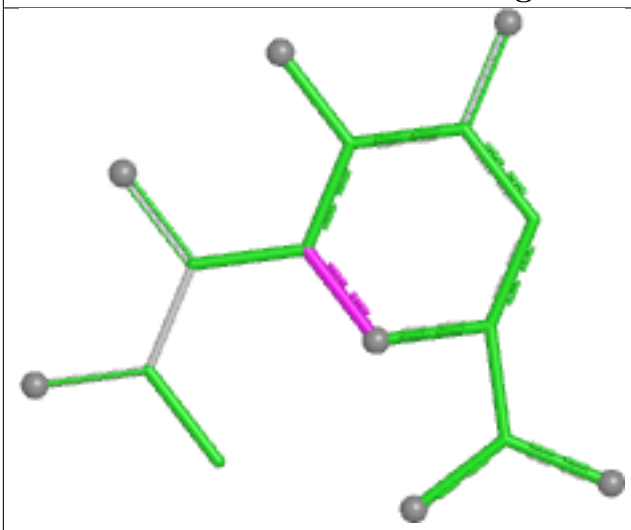


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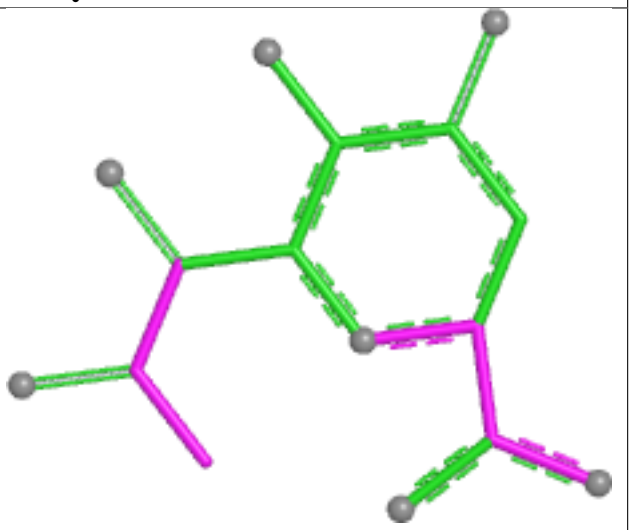


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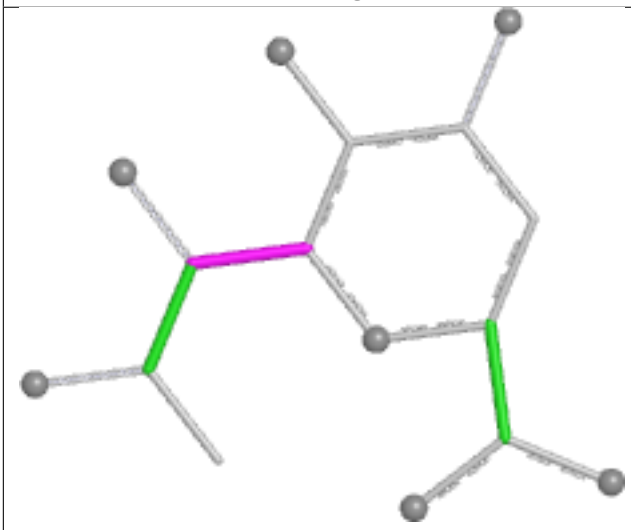
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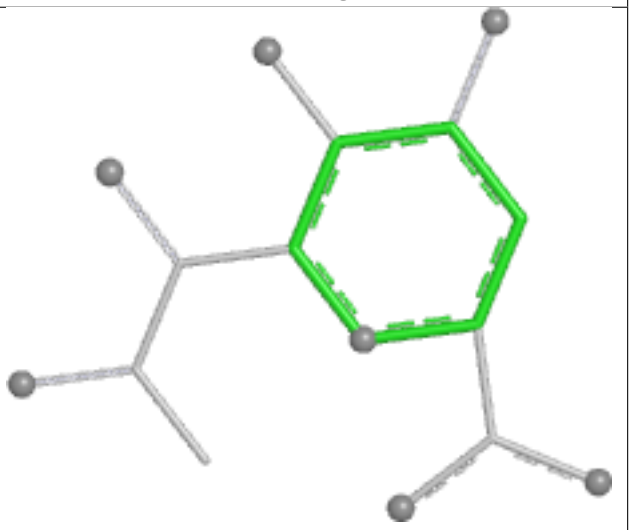
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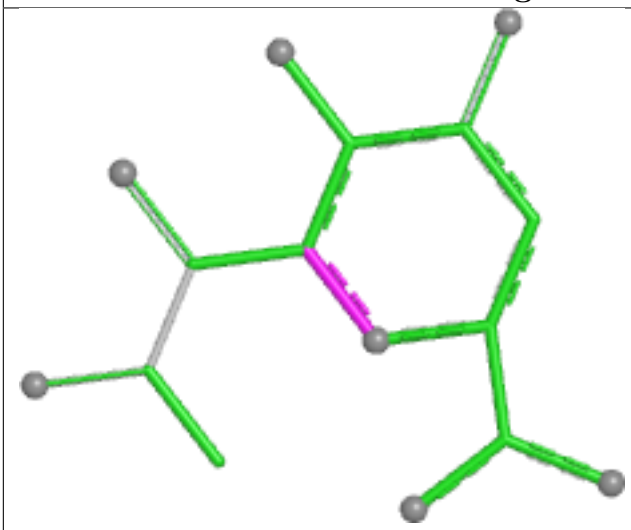


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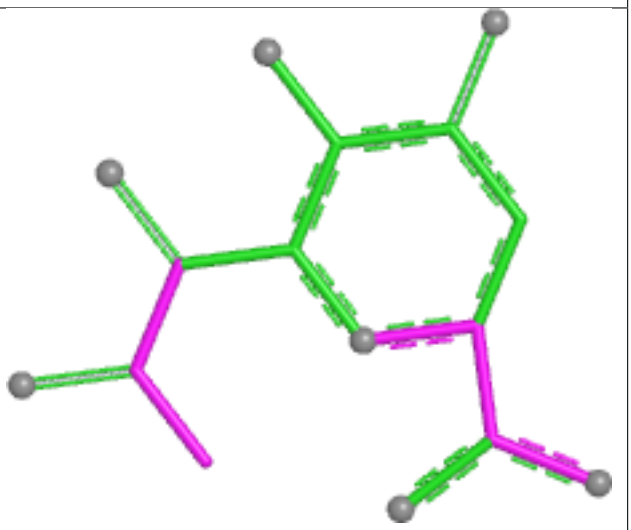


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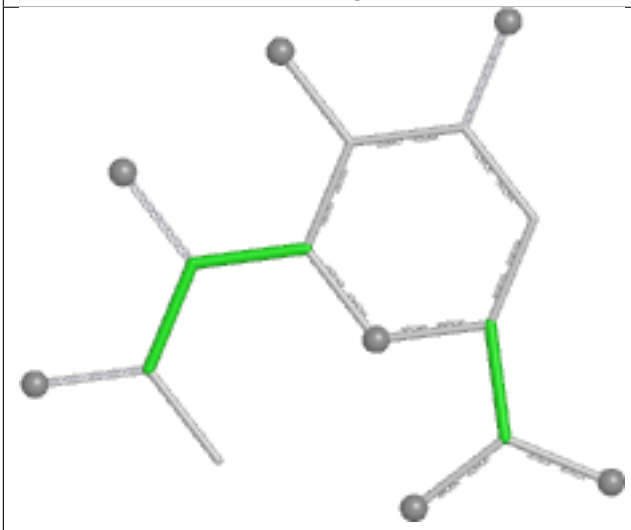
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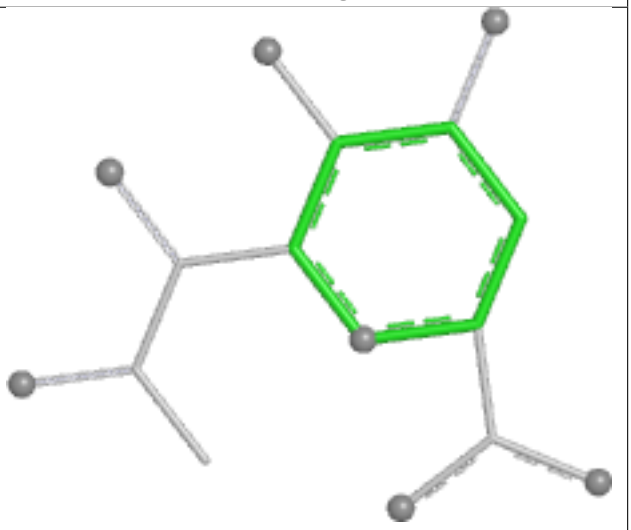
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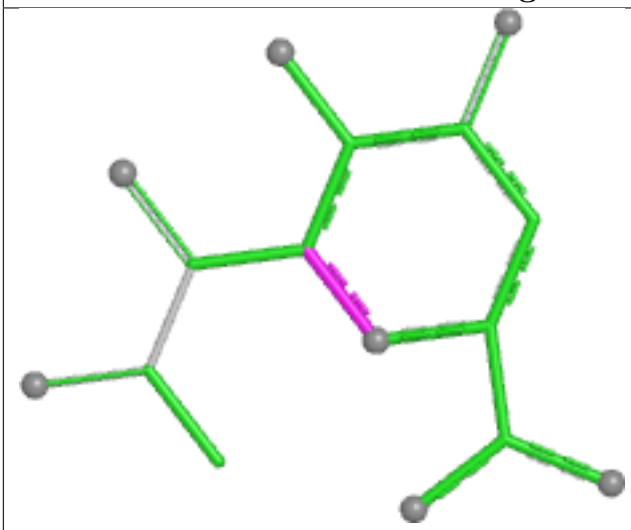


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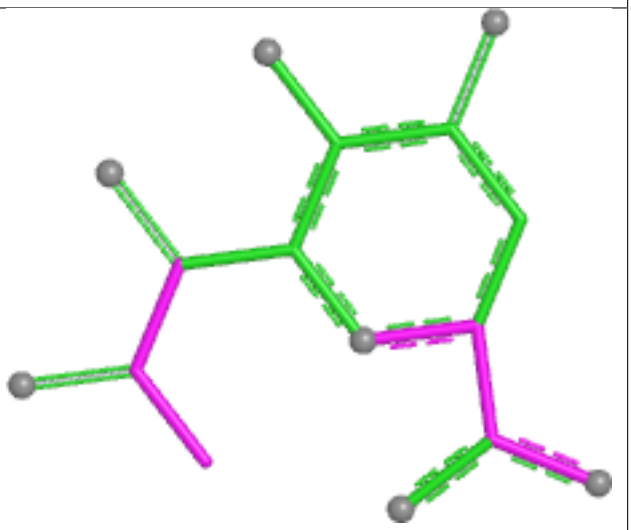


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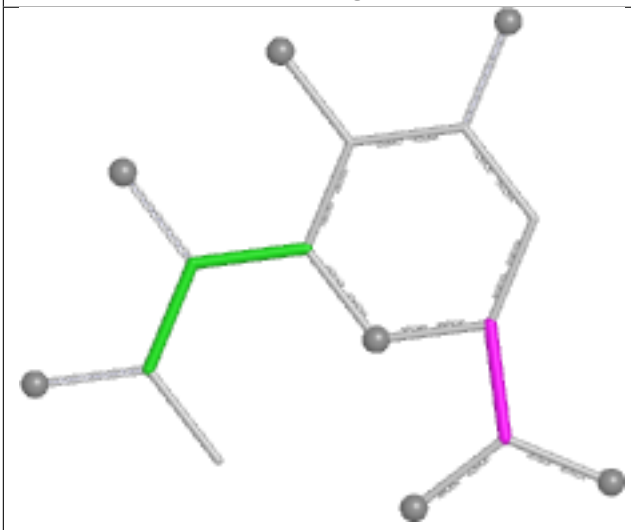
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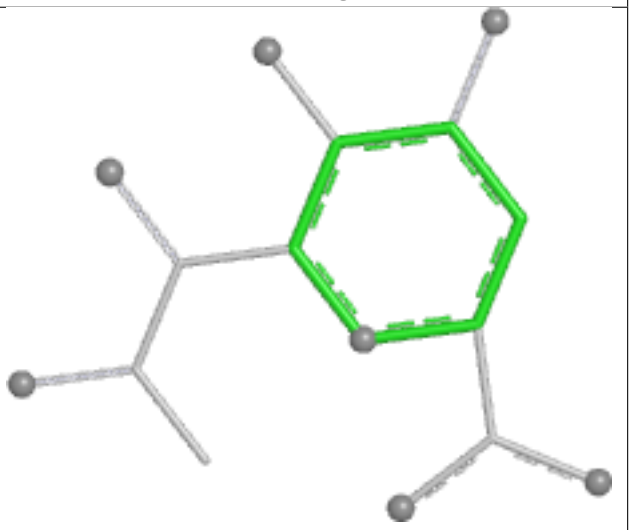
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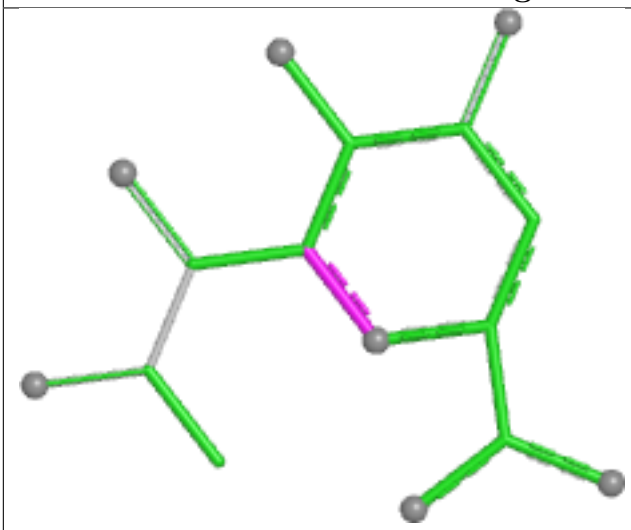


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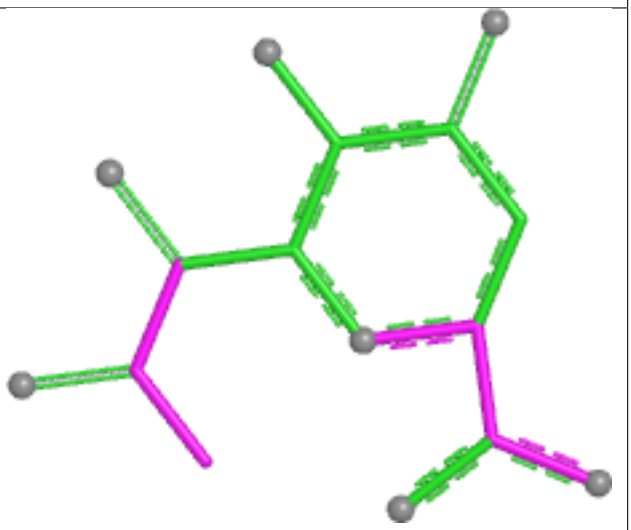


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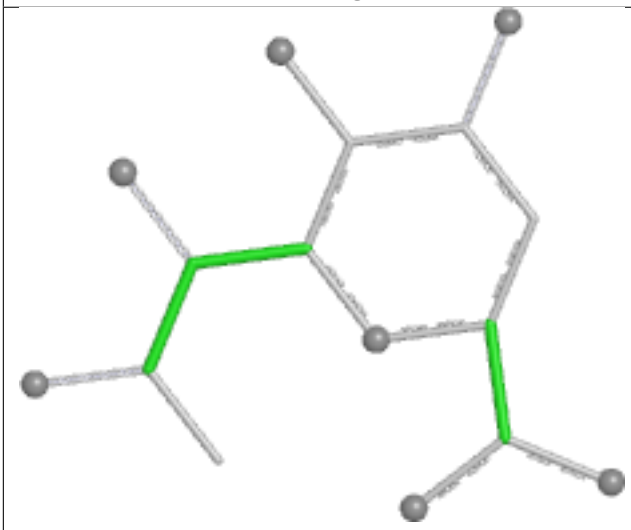
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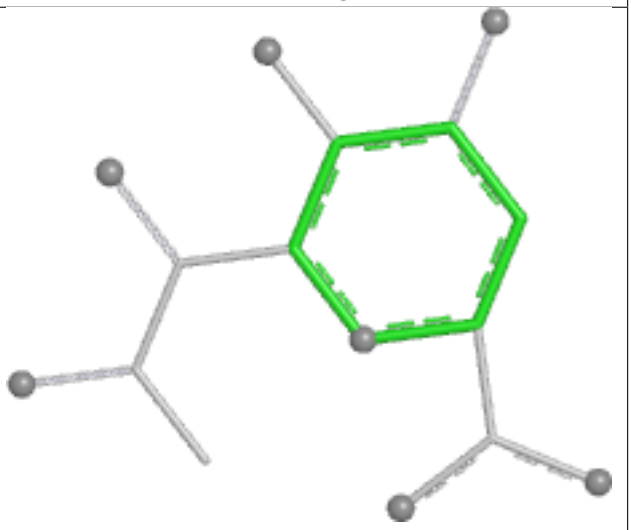
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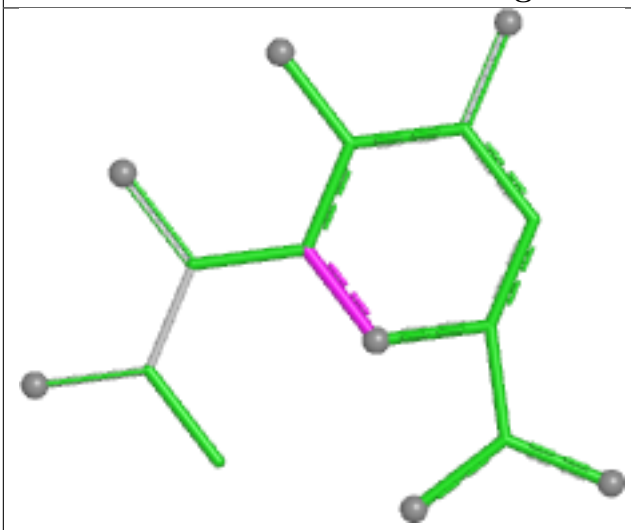


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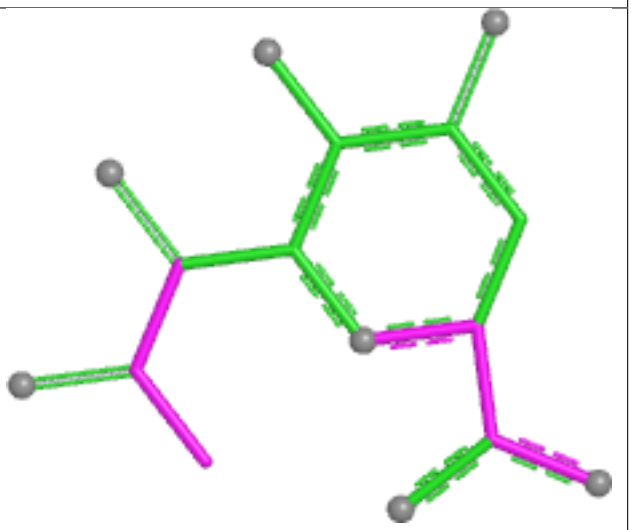


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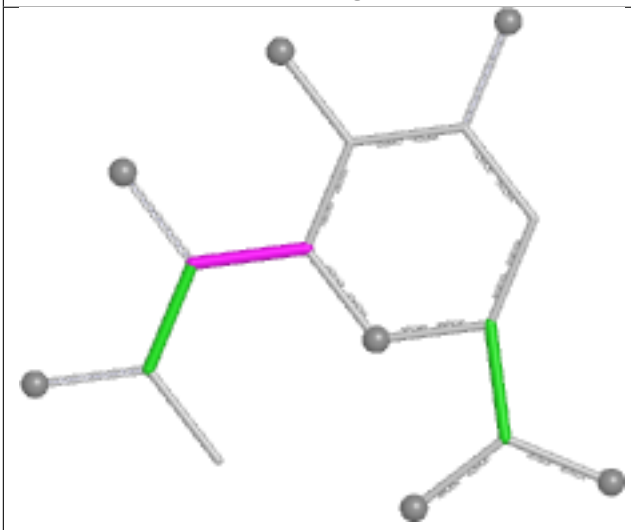
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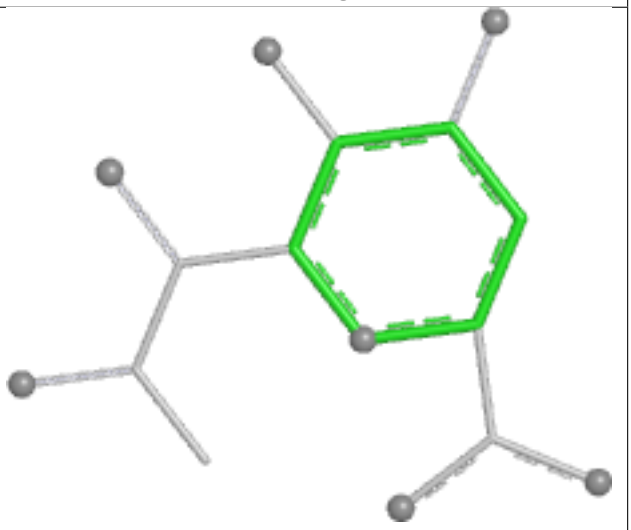
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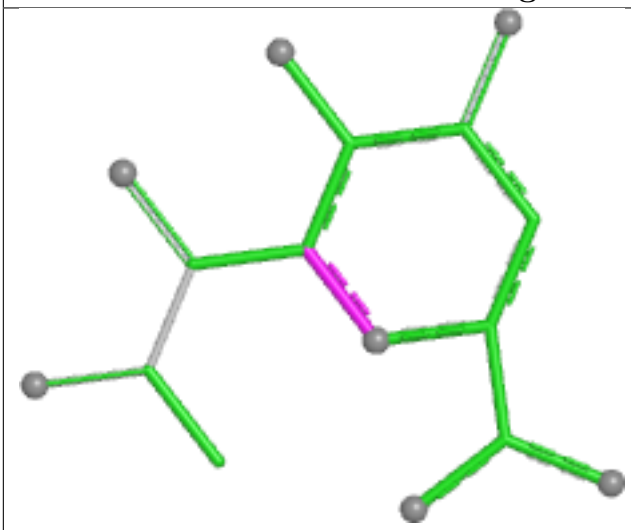


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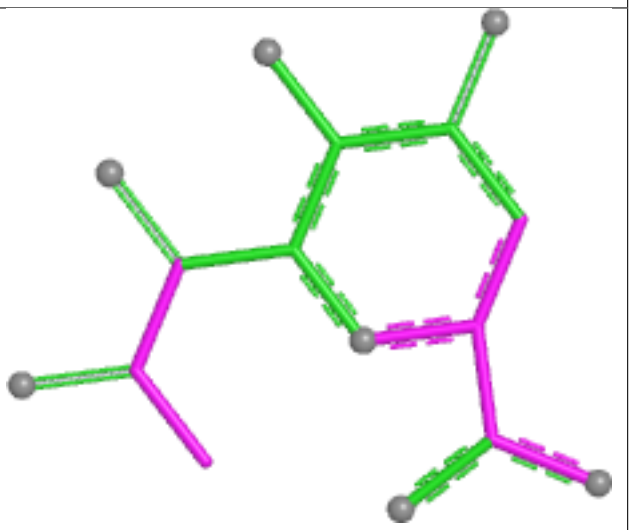


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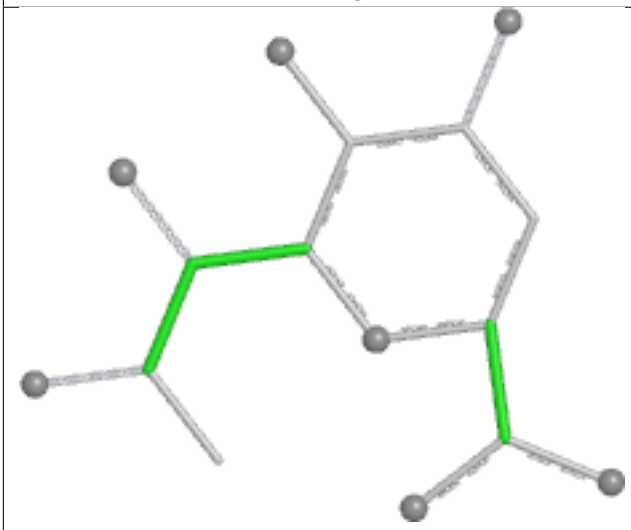
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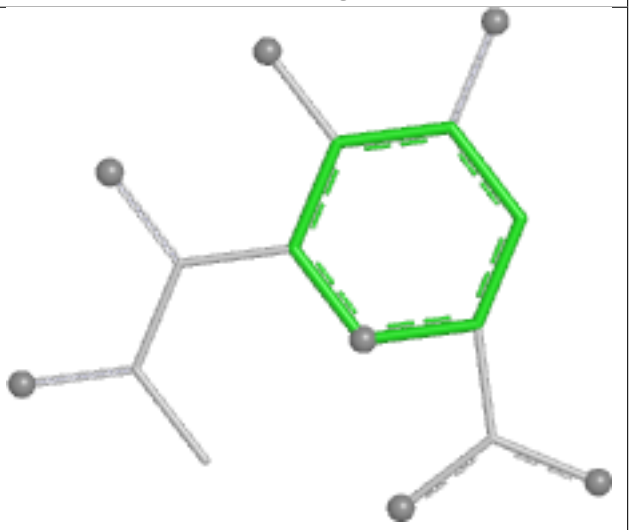
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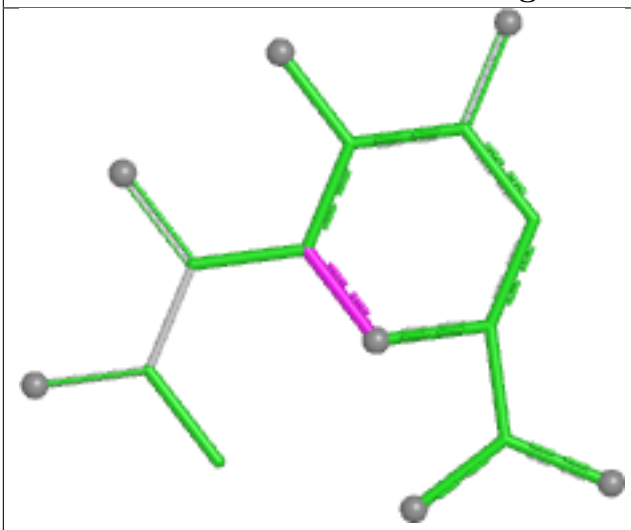


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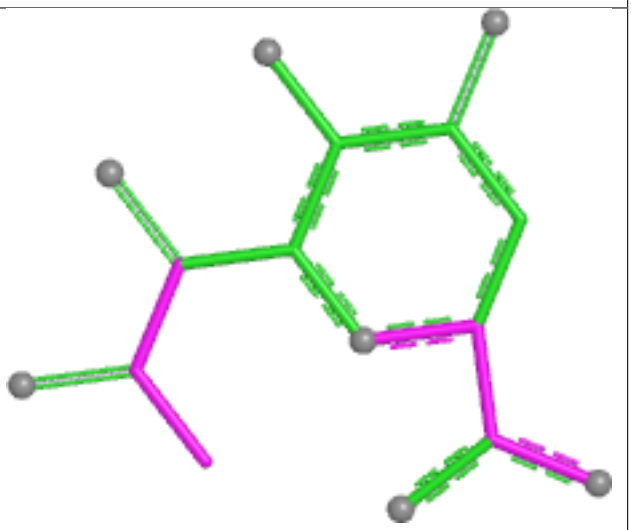


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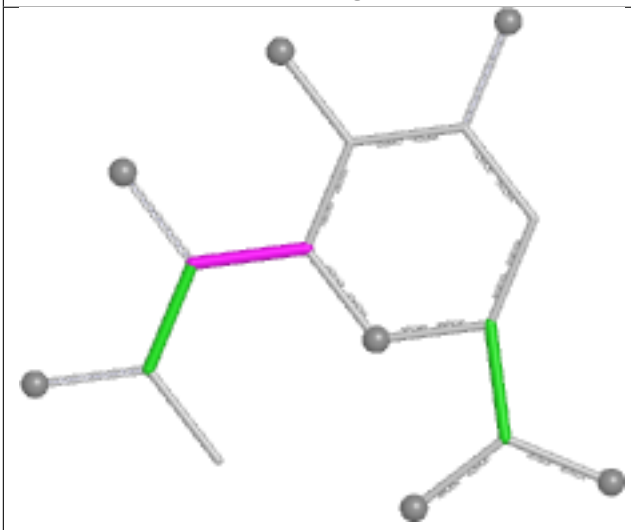
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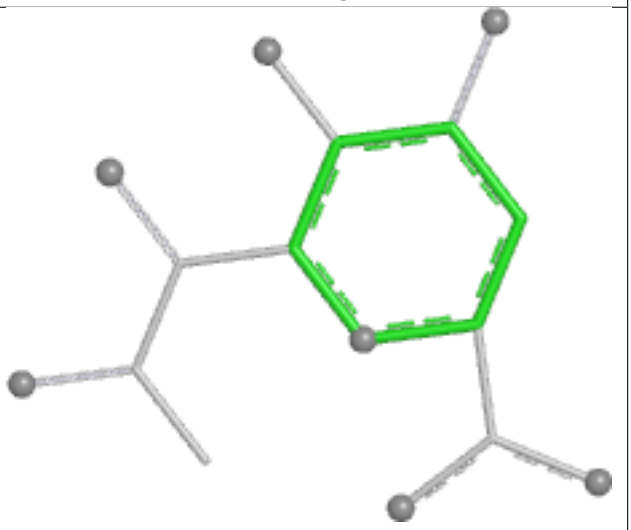
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Bond angles

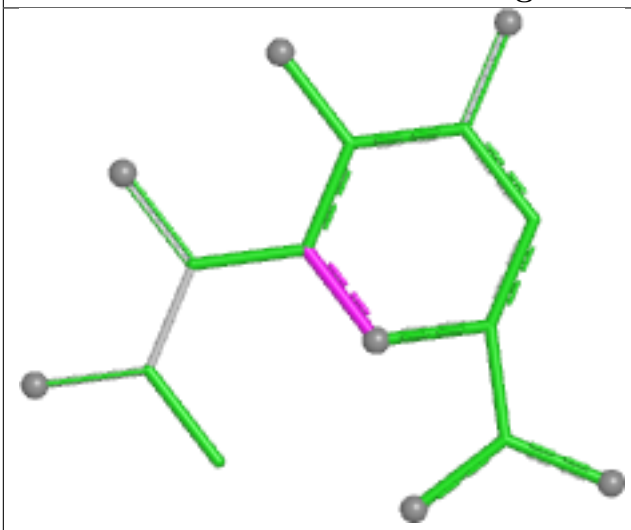


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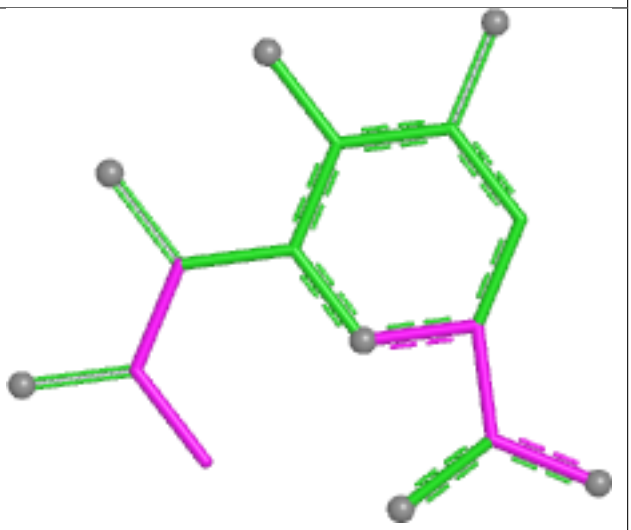


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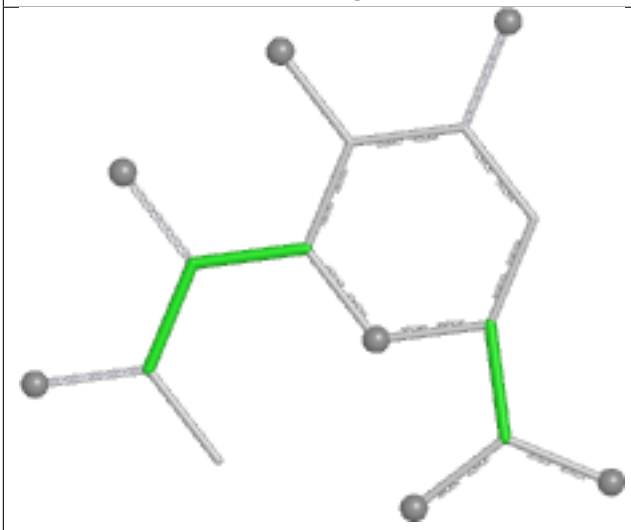
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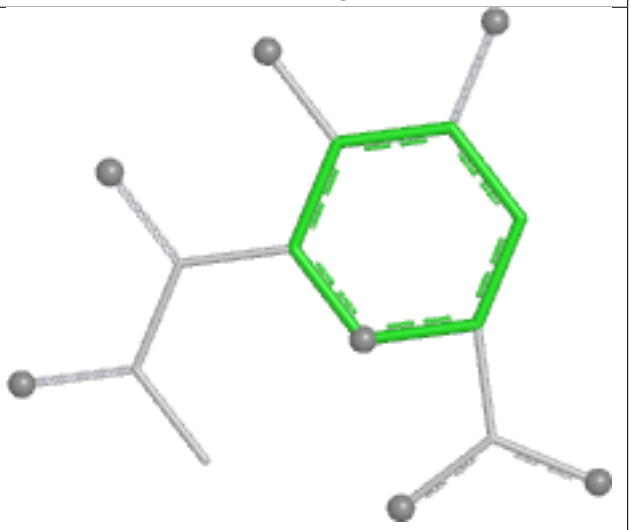
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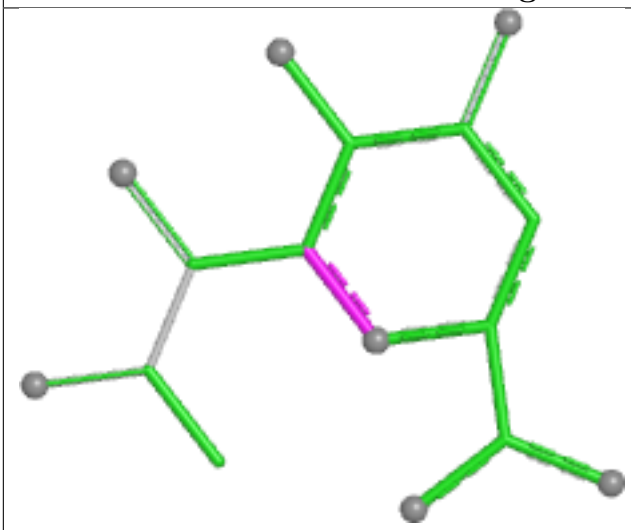


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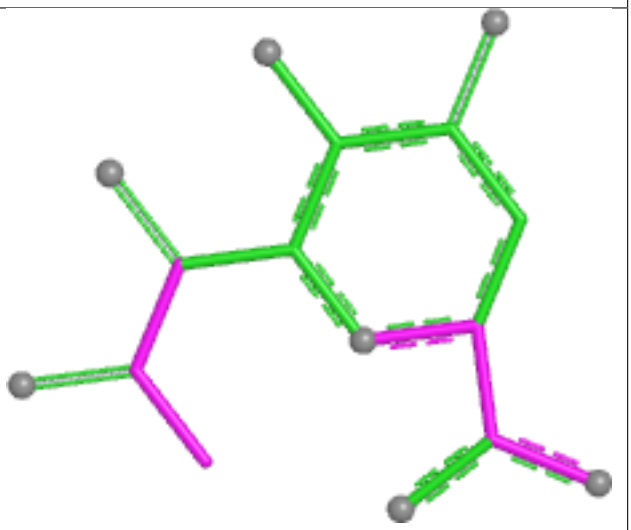


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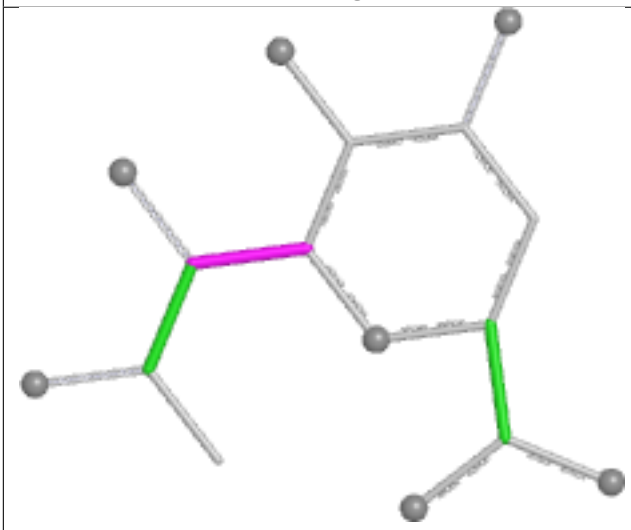
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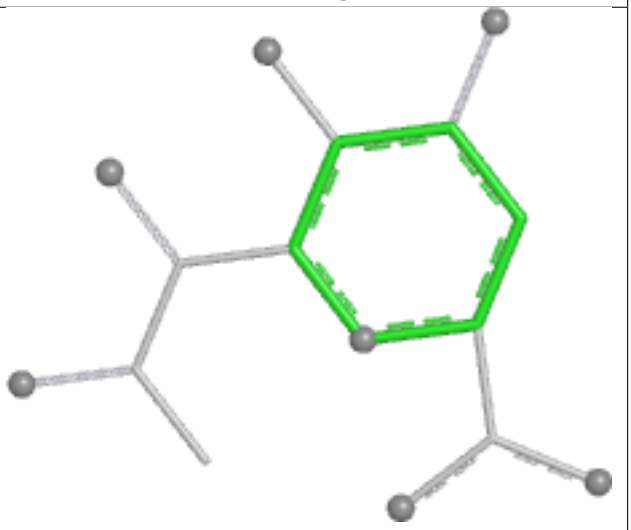
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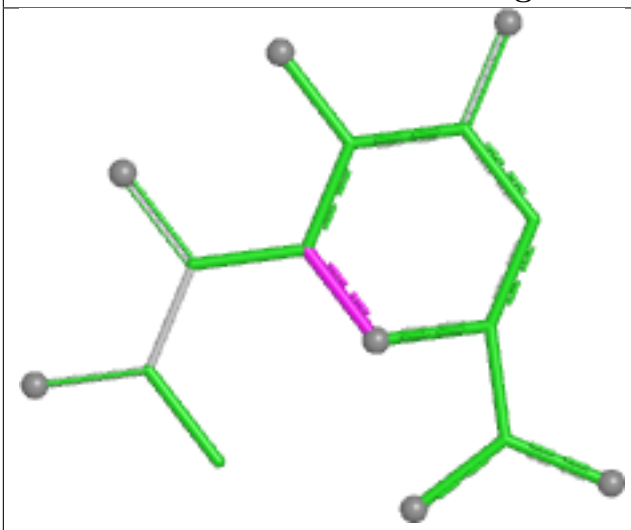


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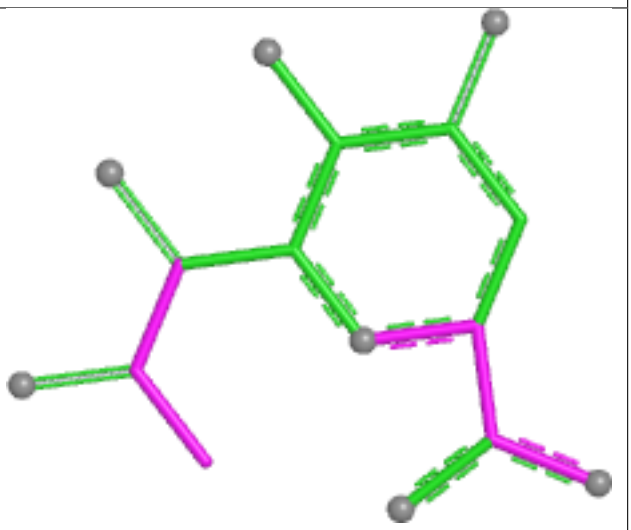


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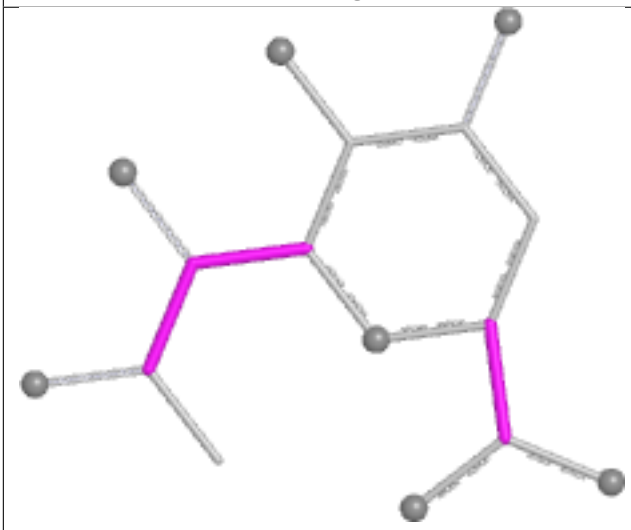
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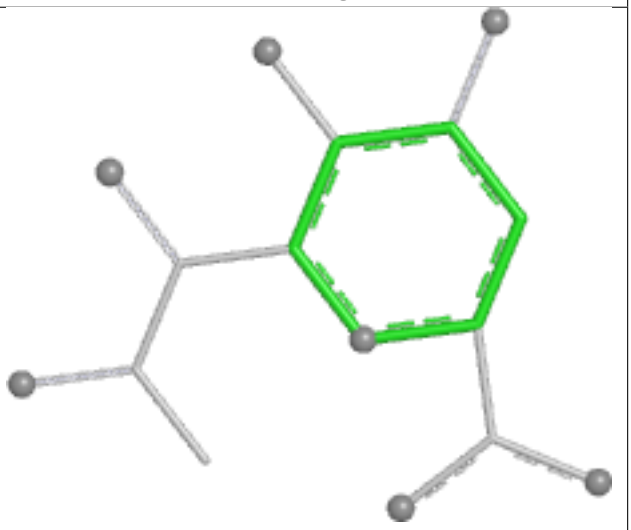
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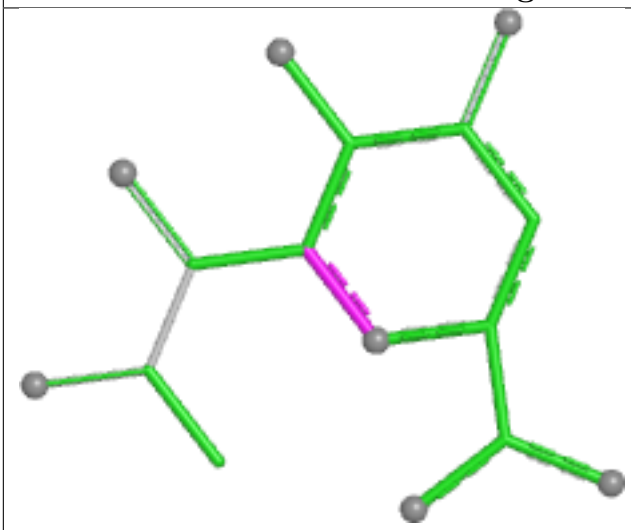


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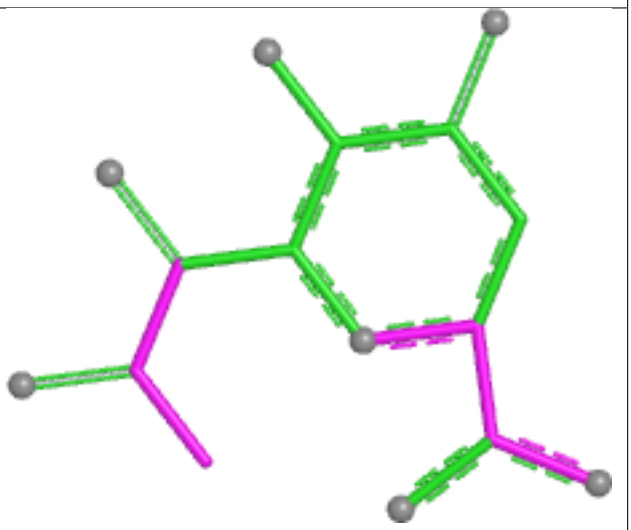


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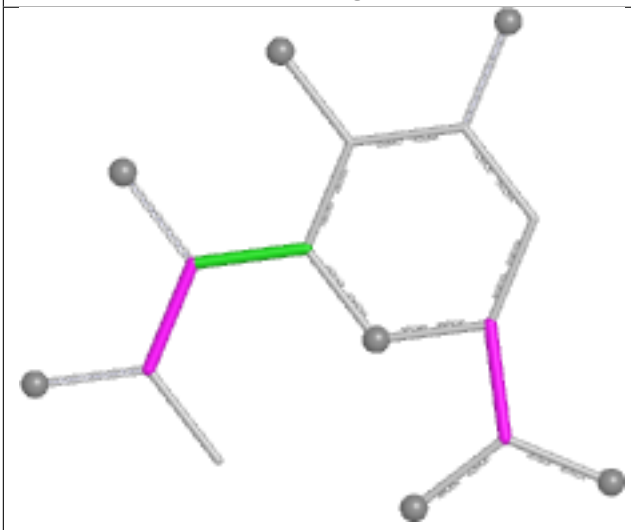
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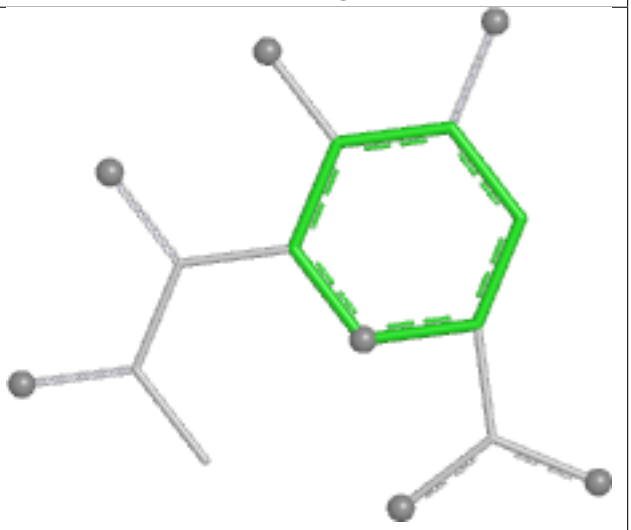
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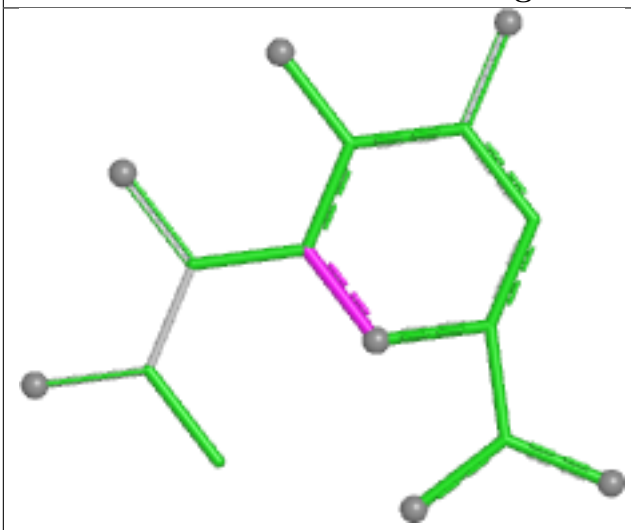


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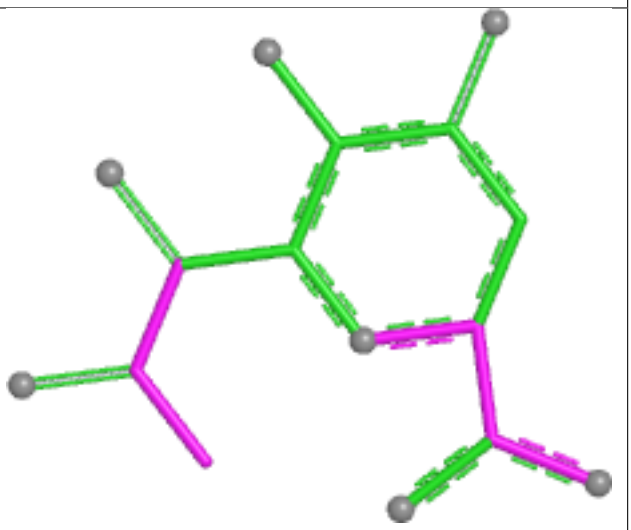


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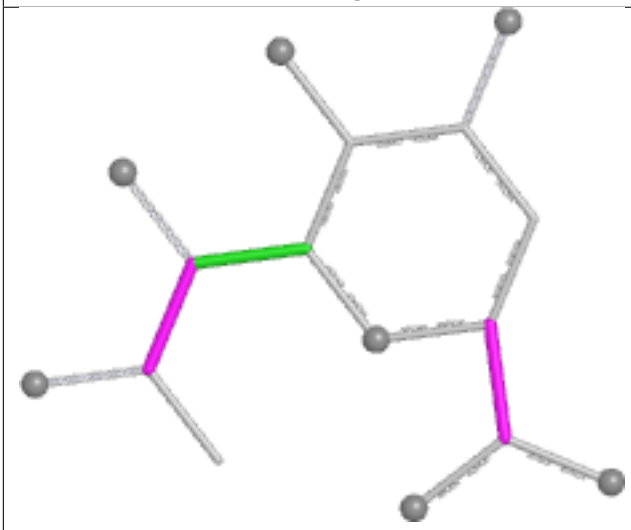
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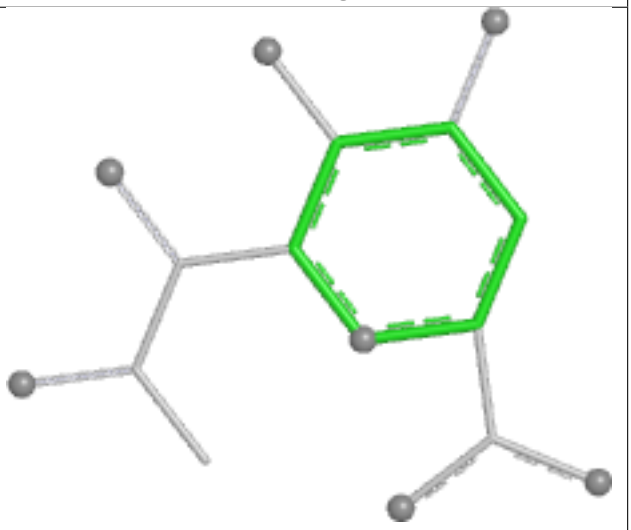
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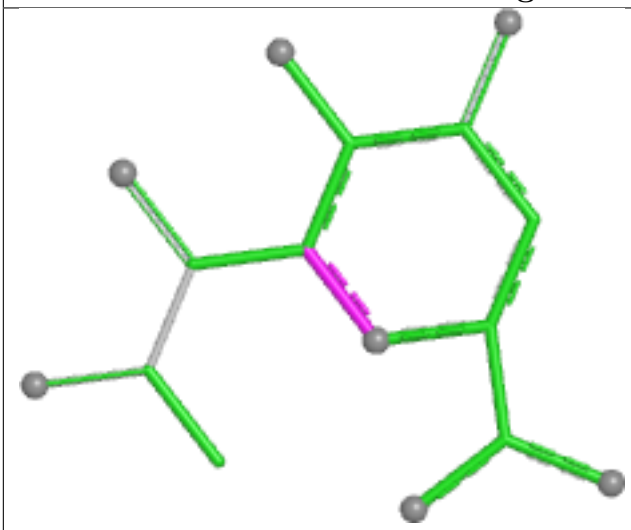


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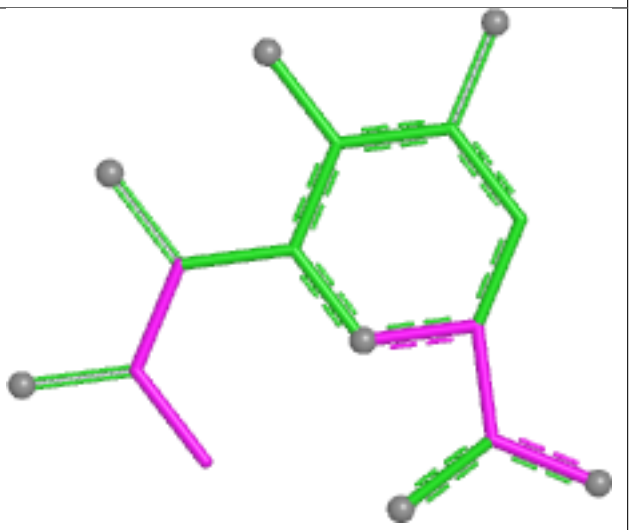


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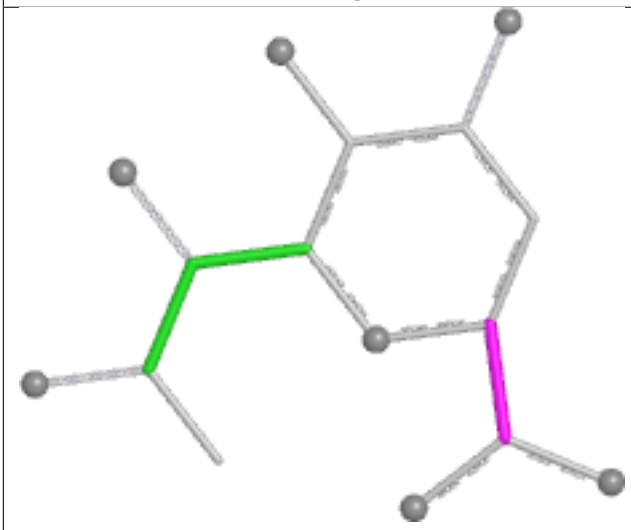
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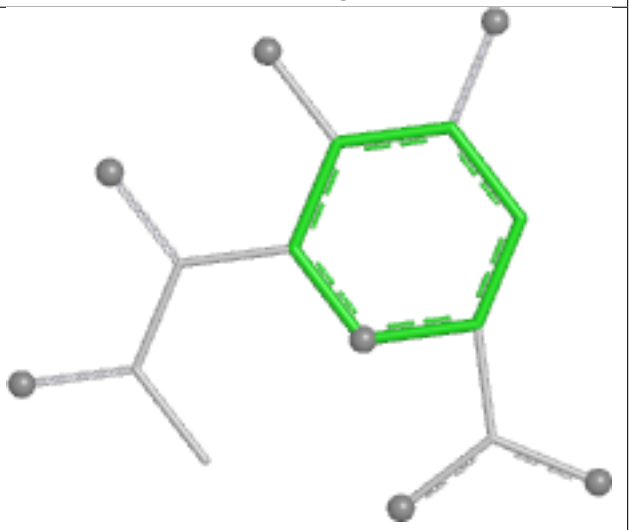
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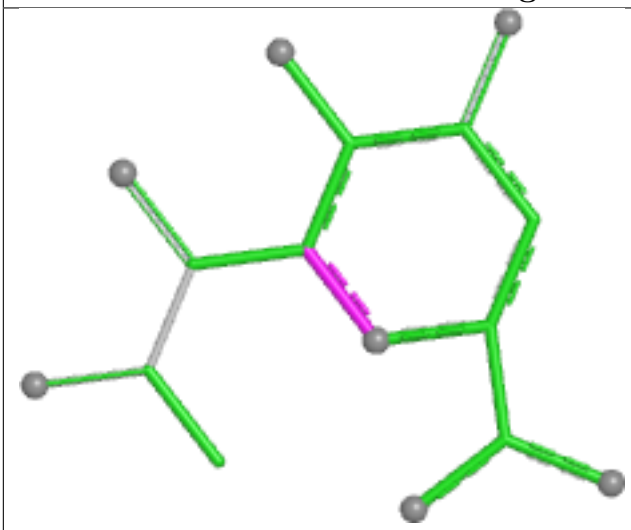


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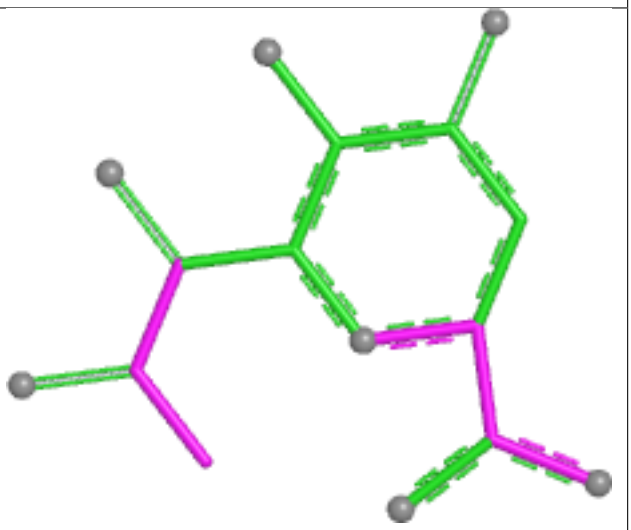


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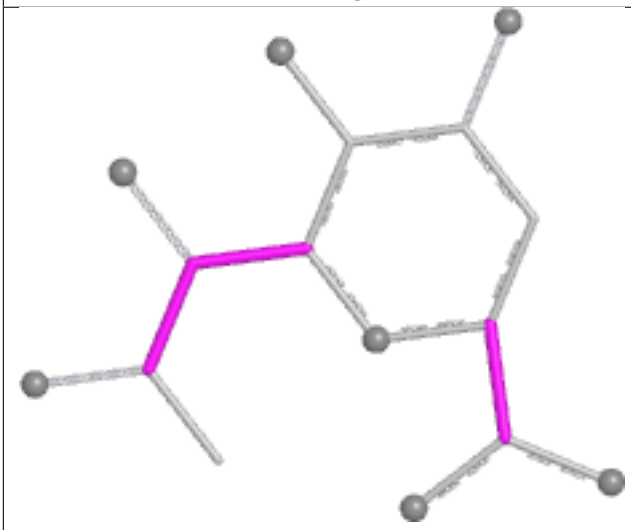
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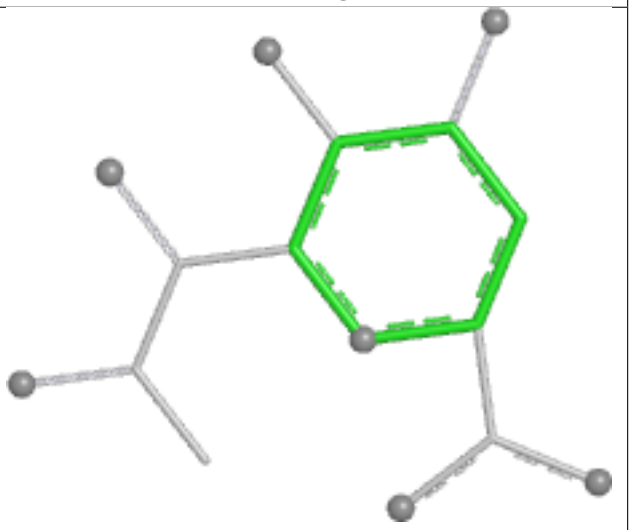
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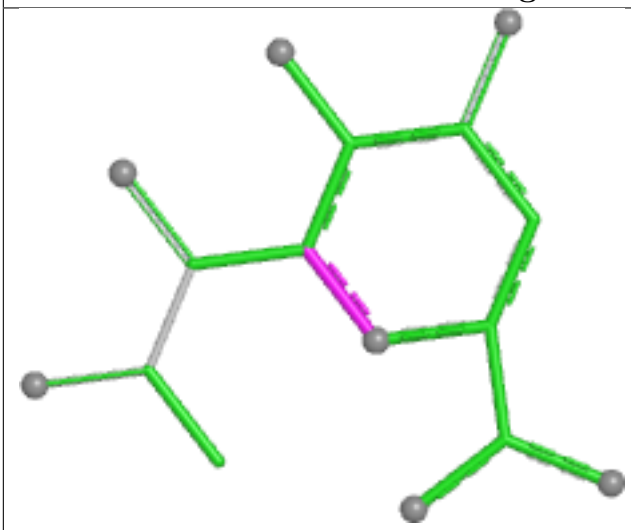


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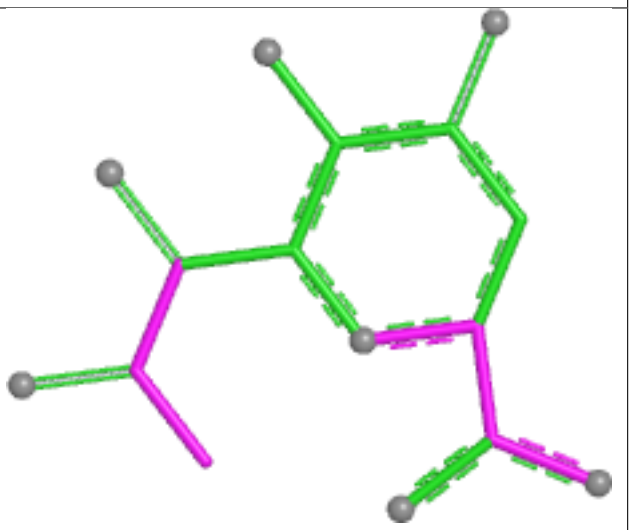


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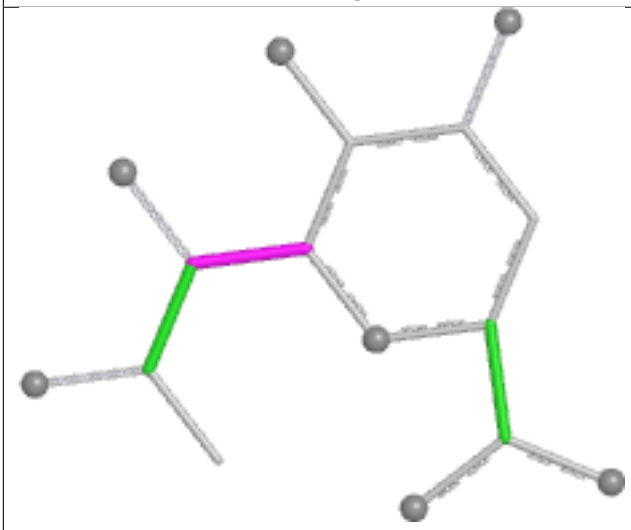
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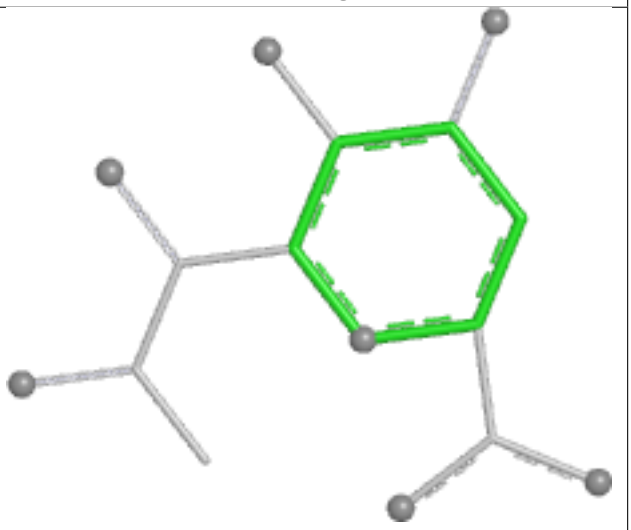
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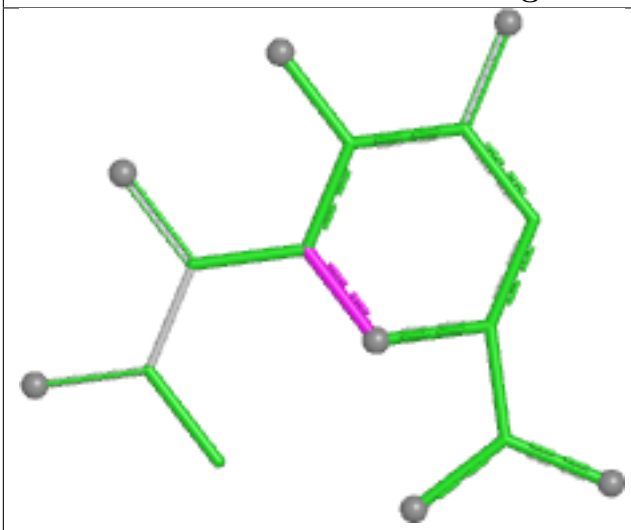


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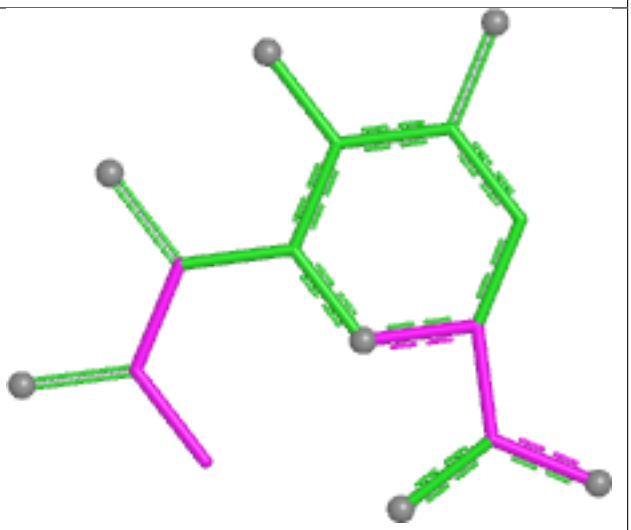


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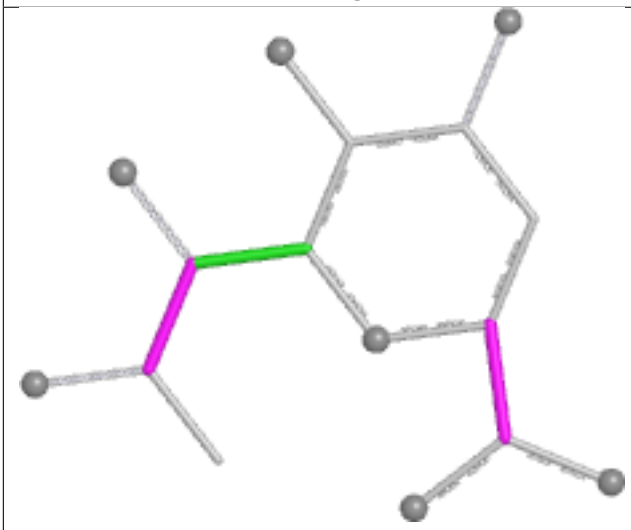
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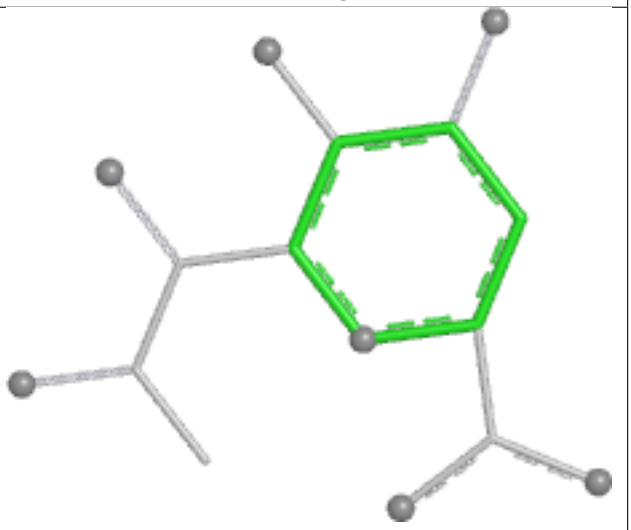
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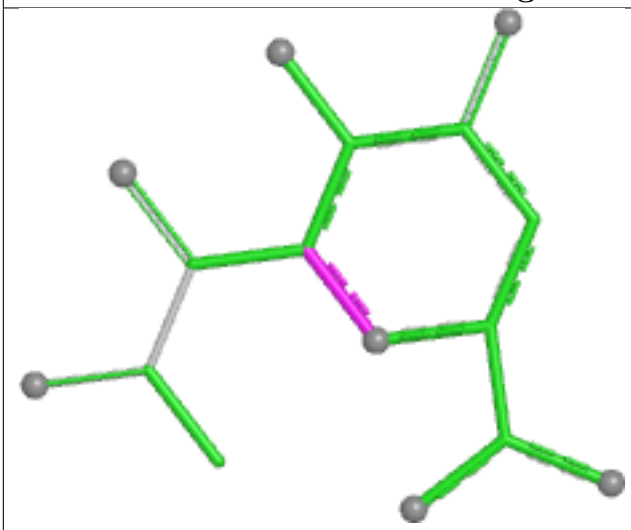


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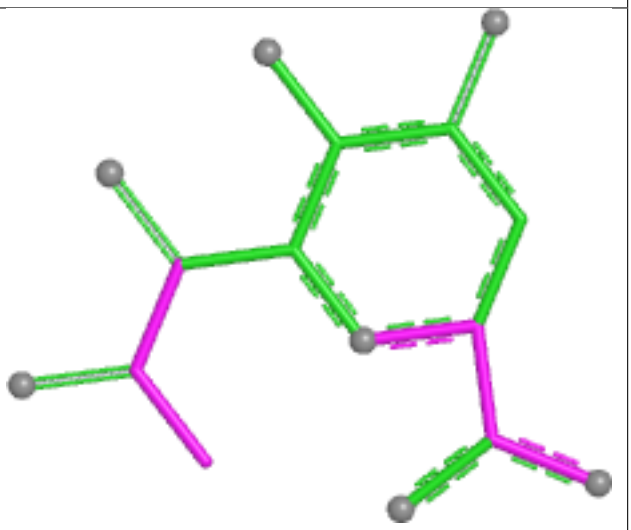


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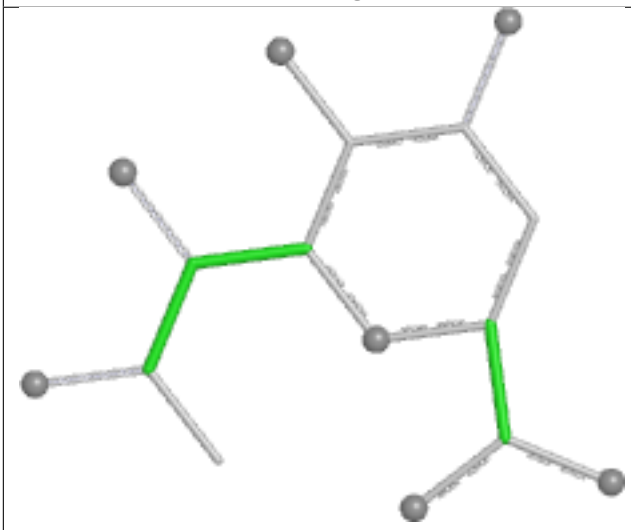
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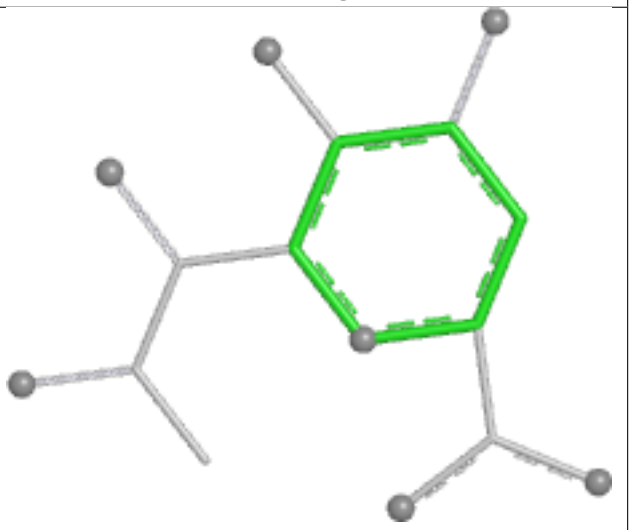
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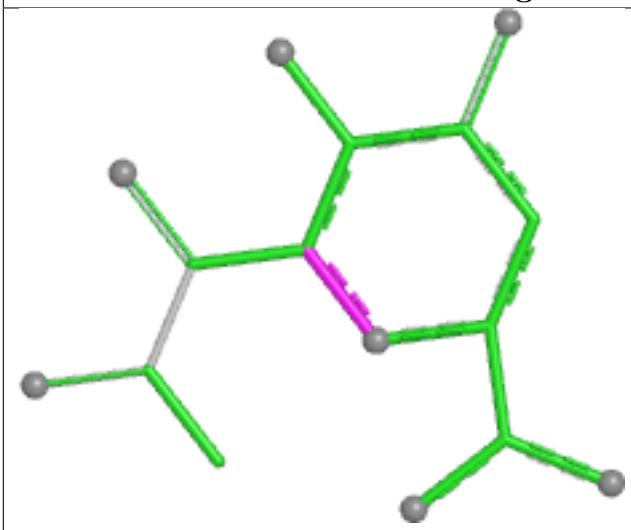


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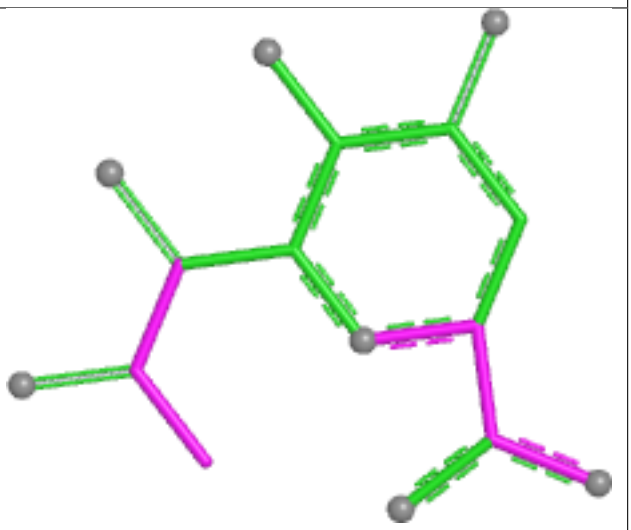


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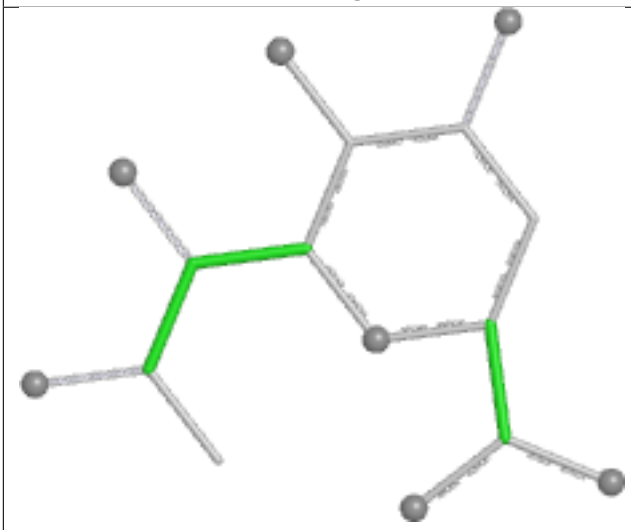
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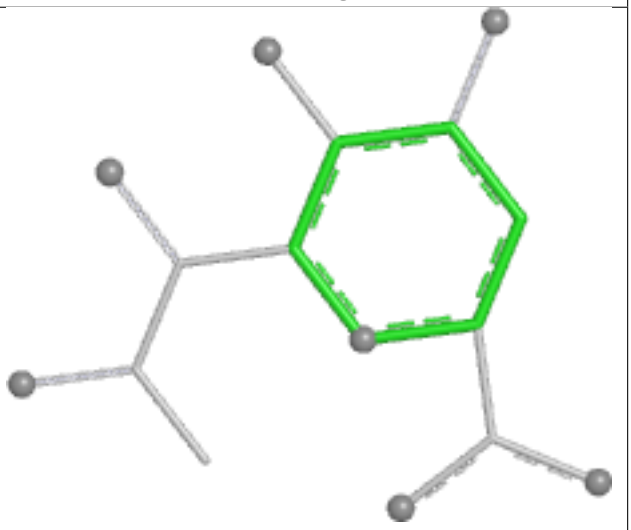
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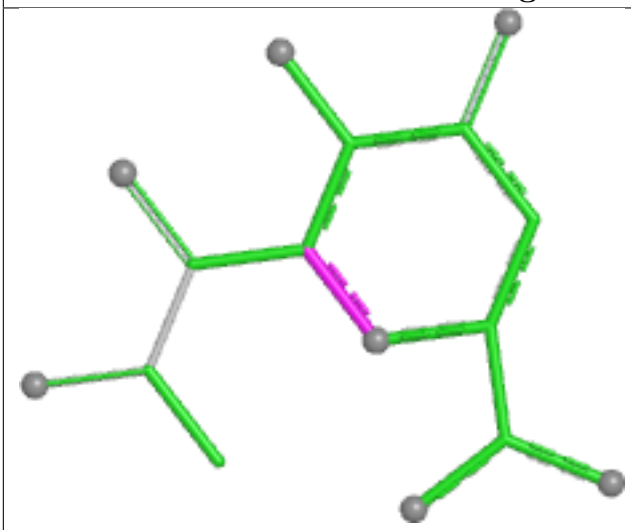


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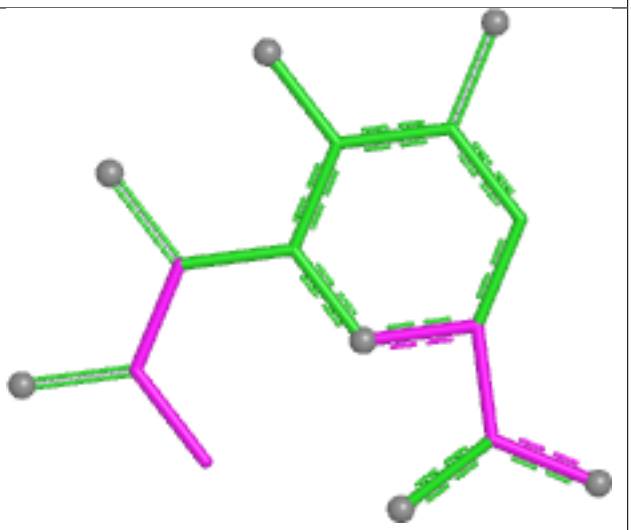


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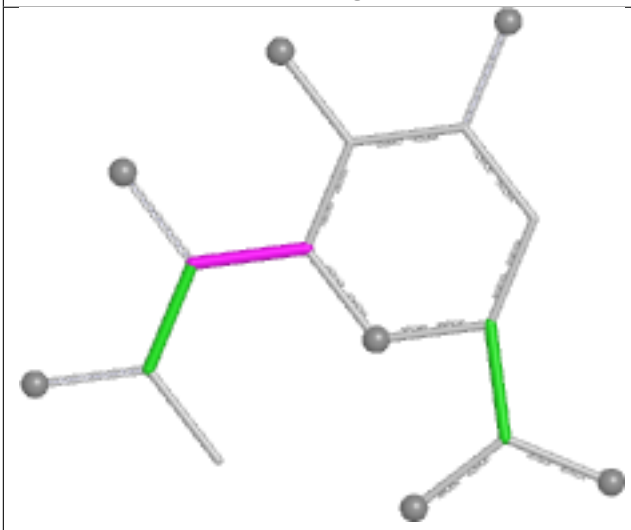
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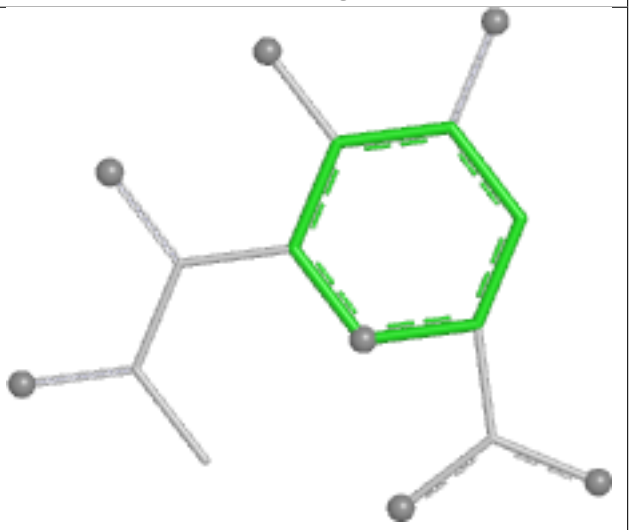
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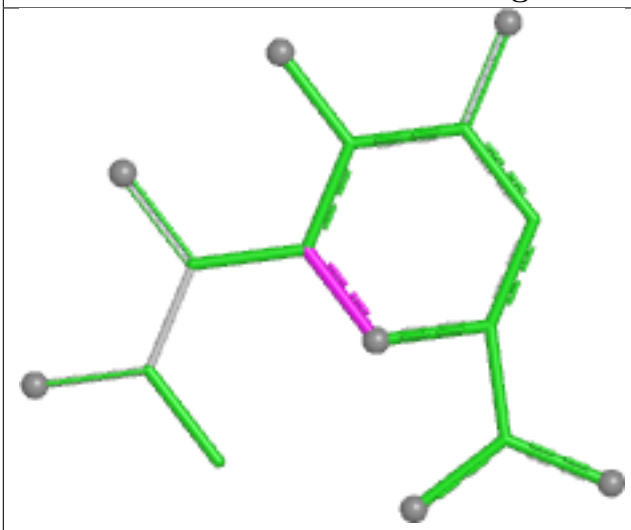


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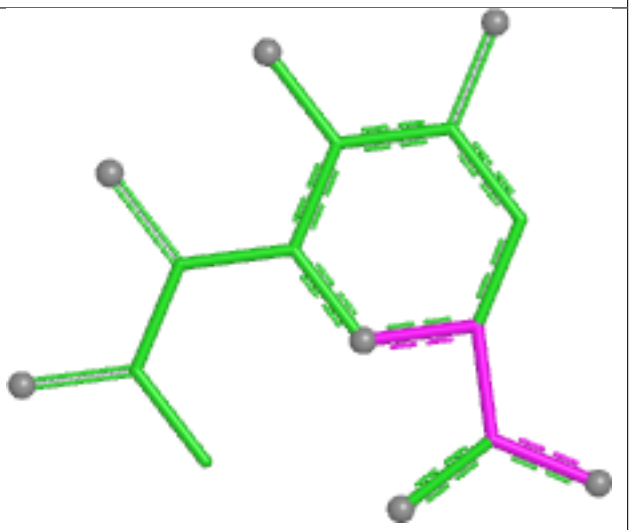


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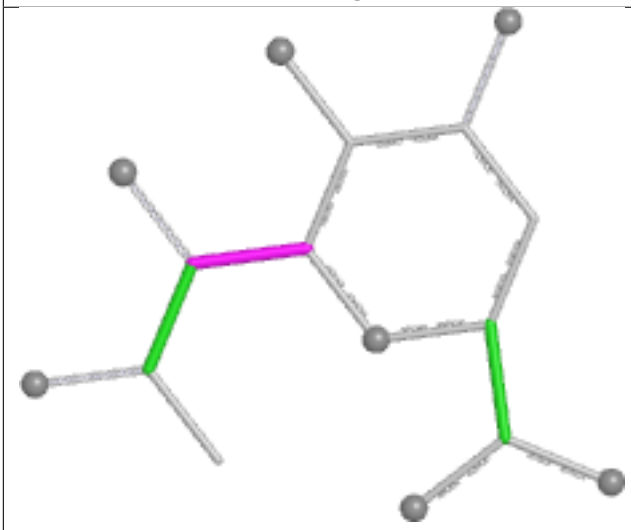
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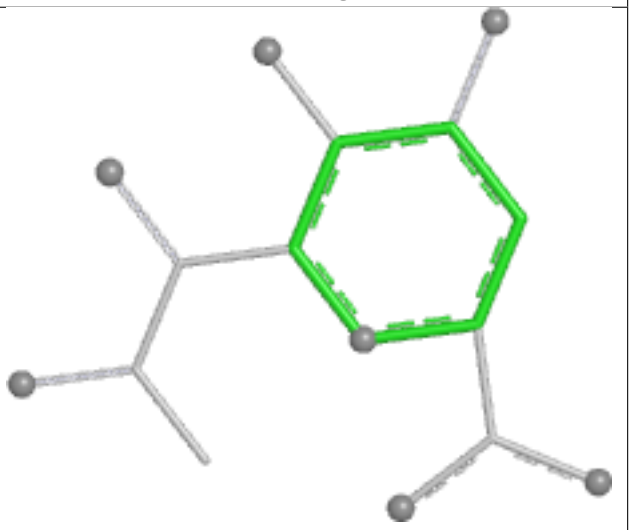
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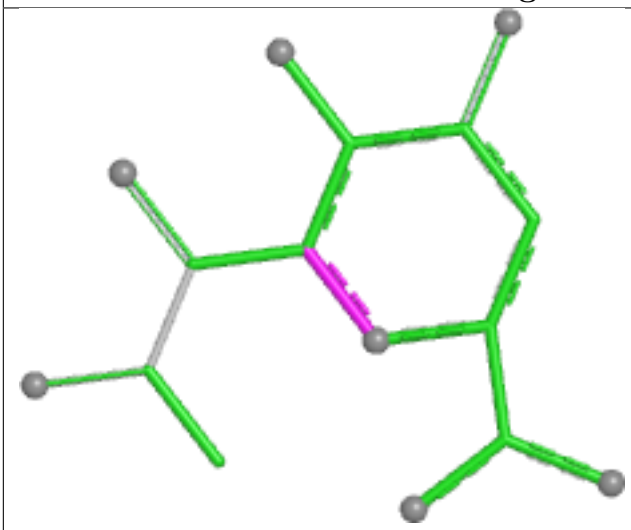


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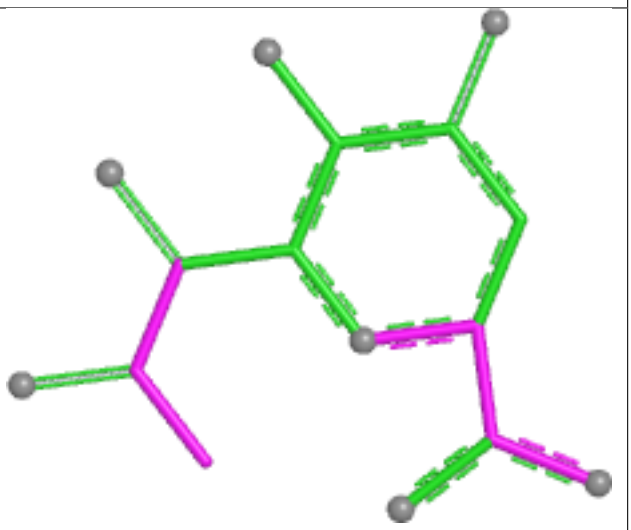


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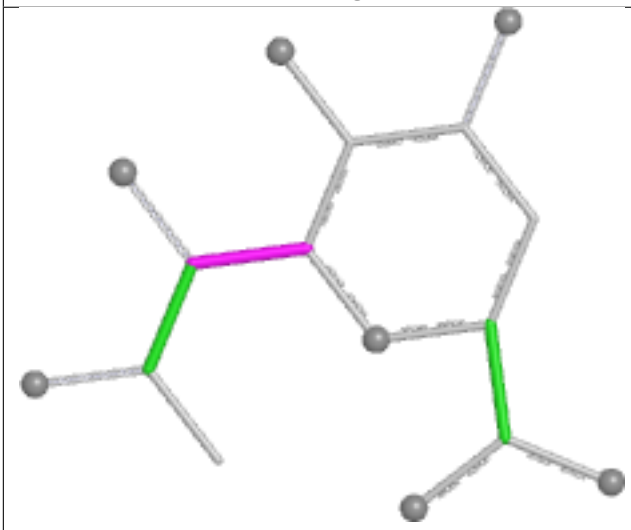
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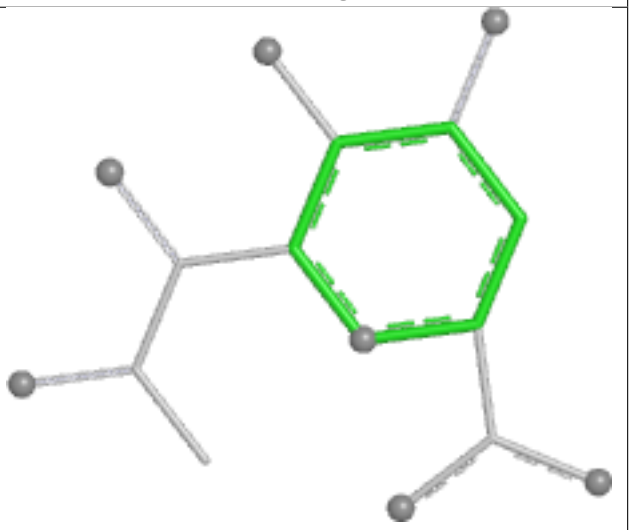
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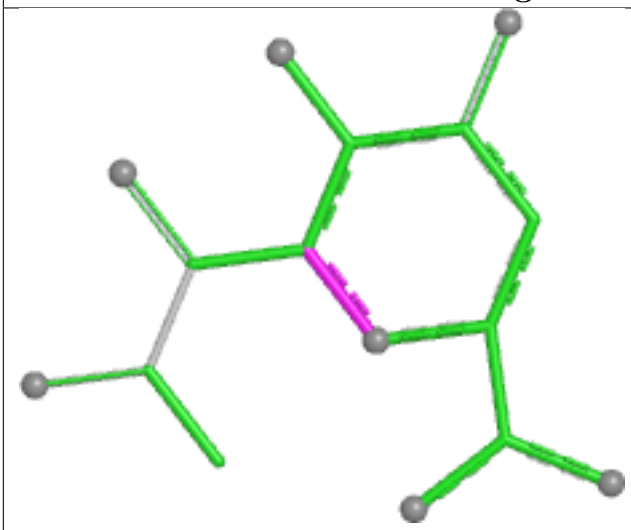


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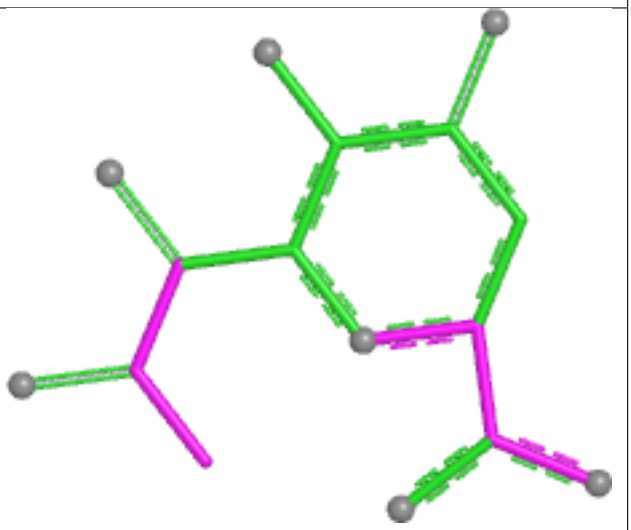


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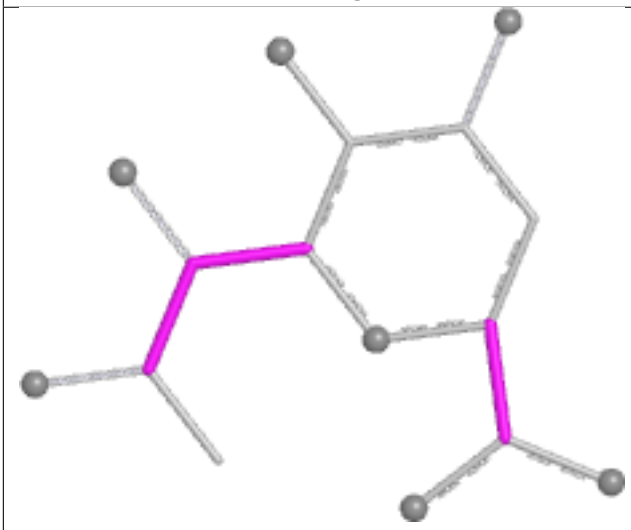
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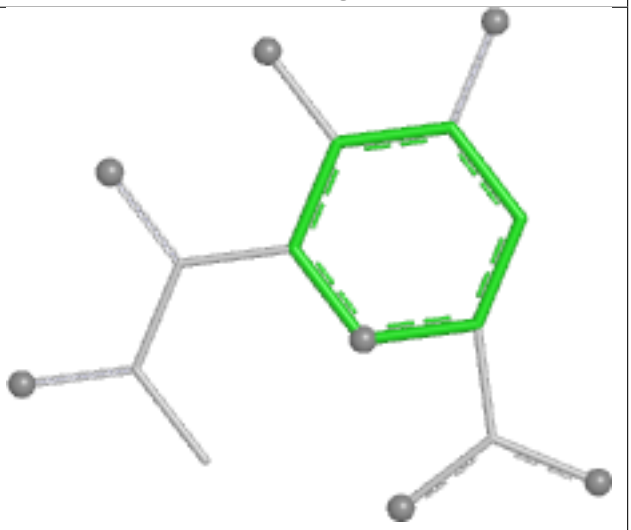
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Bond angles

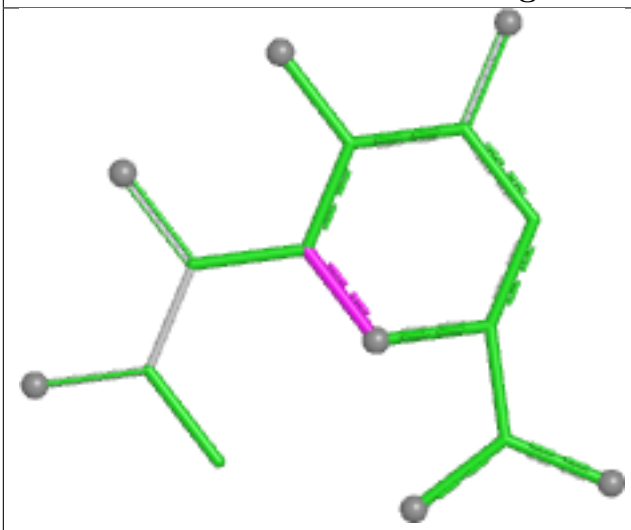


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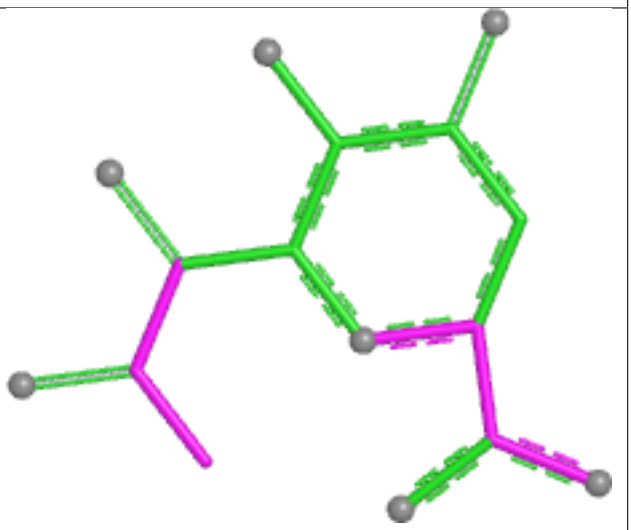


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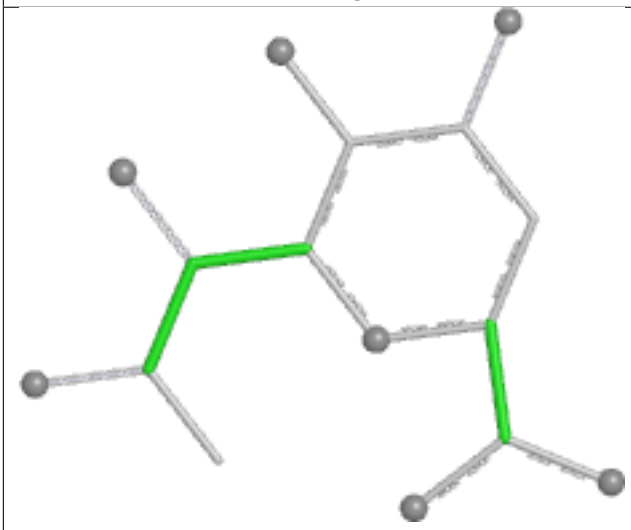
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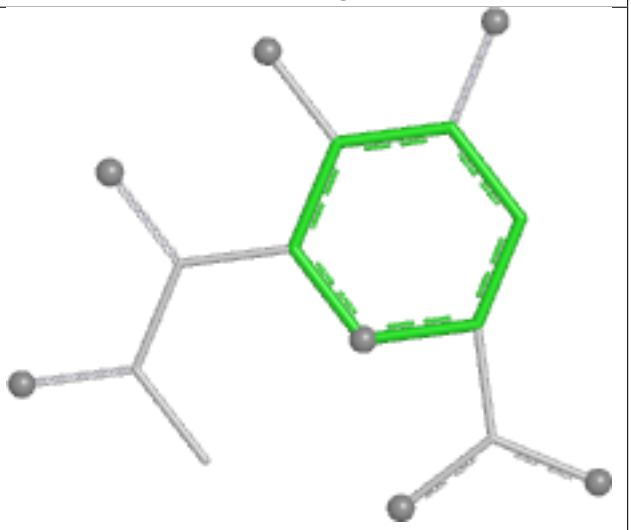
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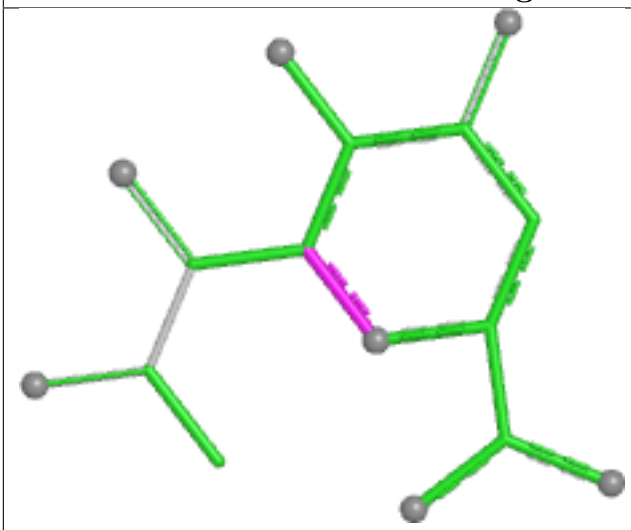


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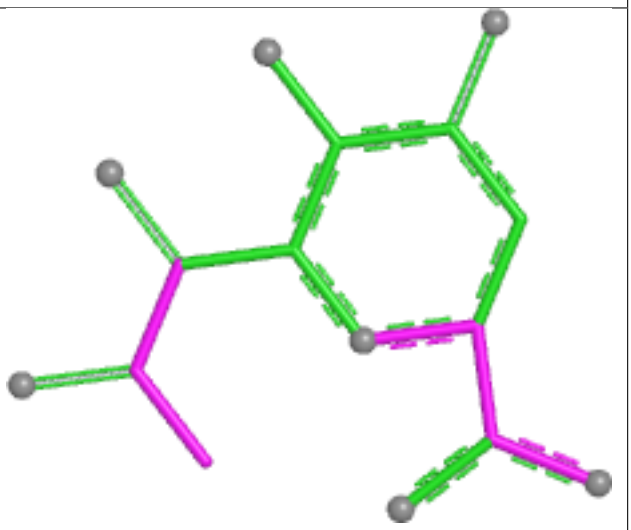


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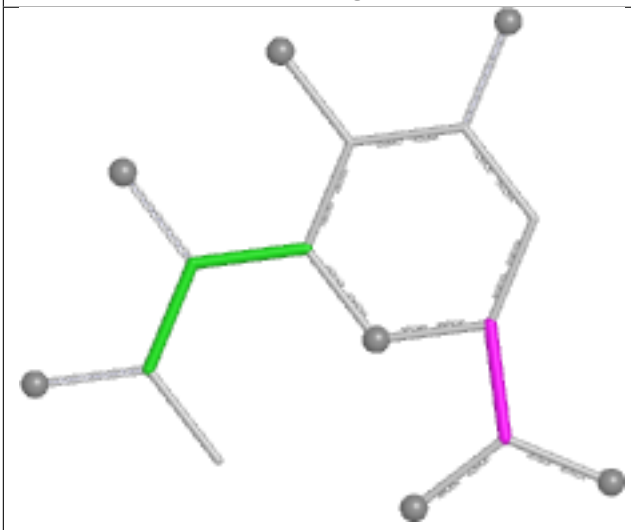
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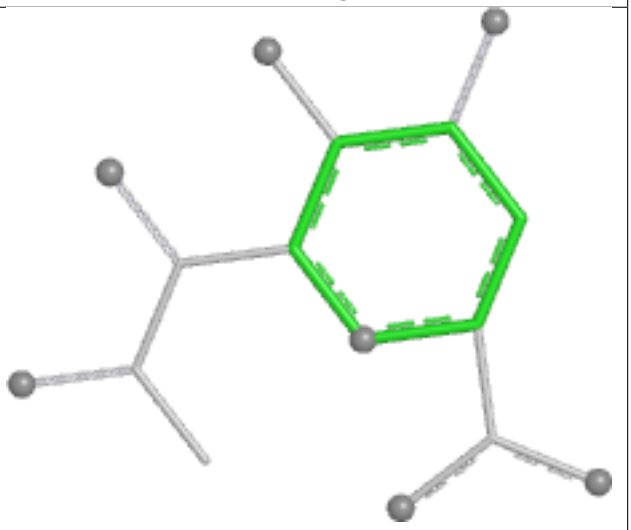
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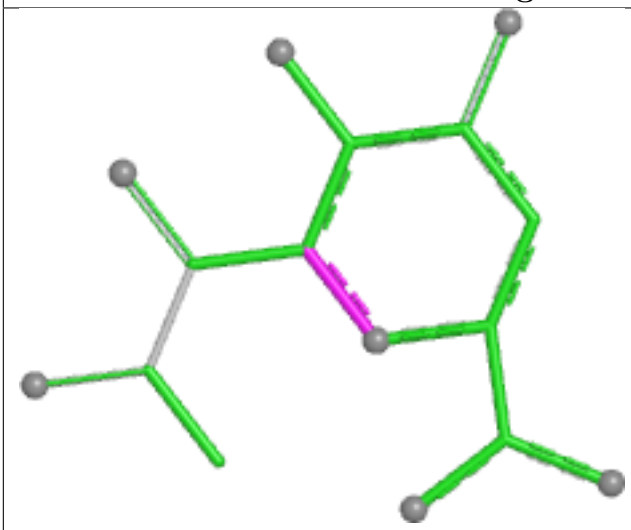


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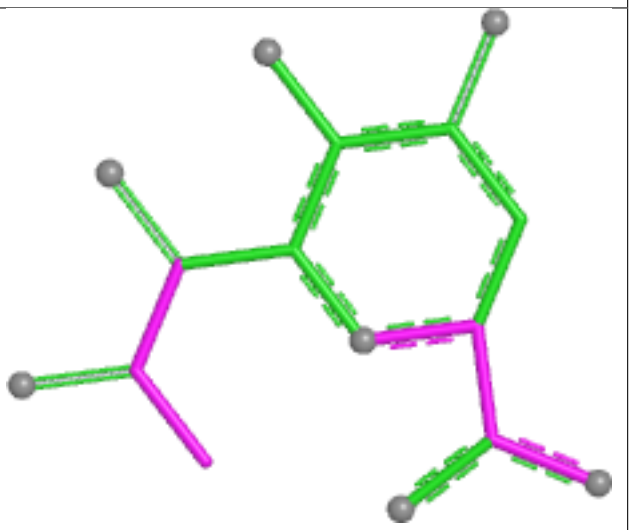


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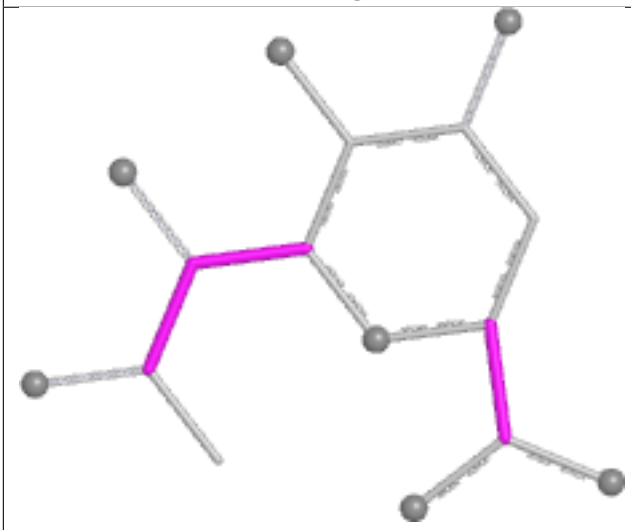
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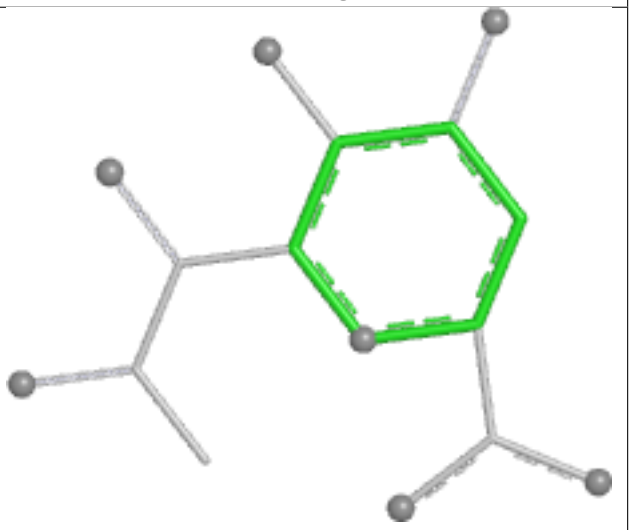
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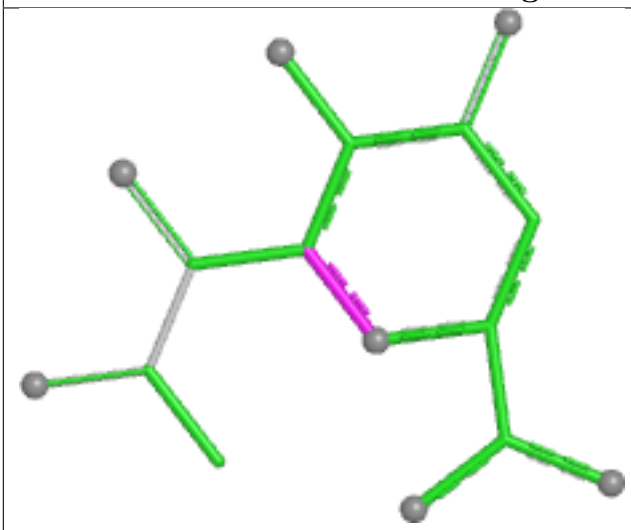


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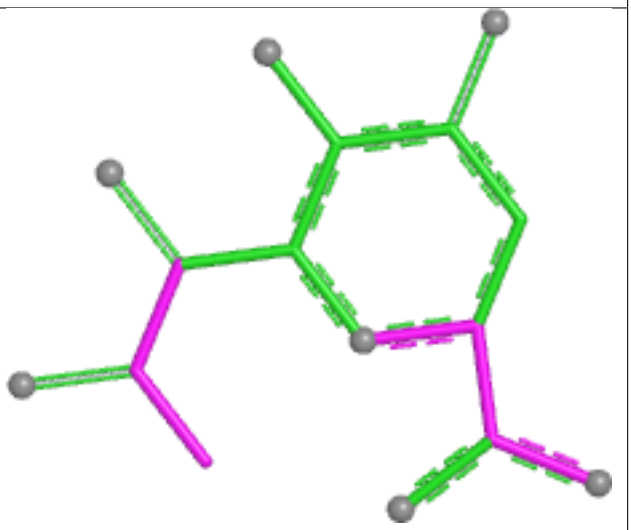


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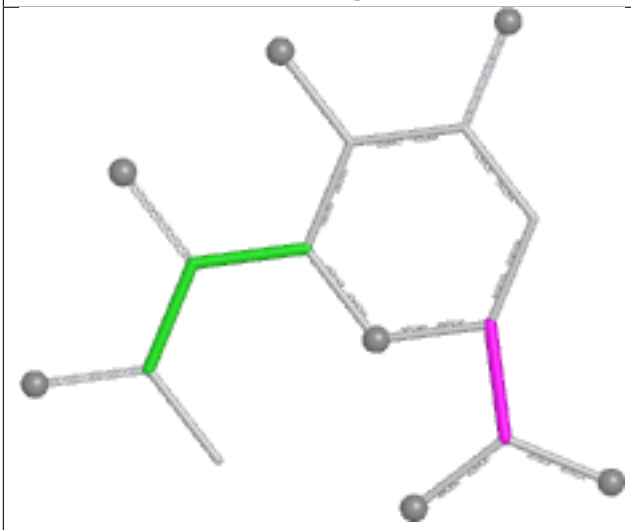
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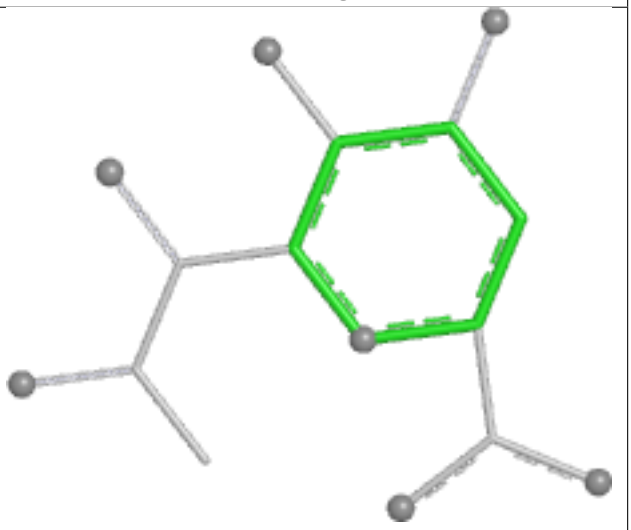
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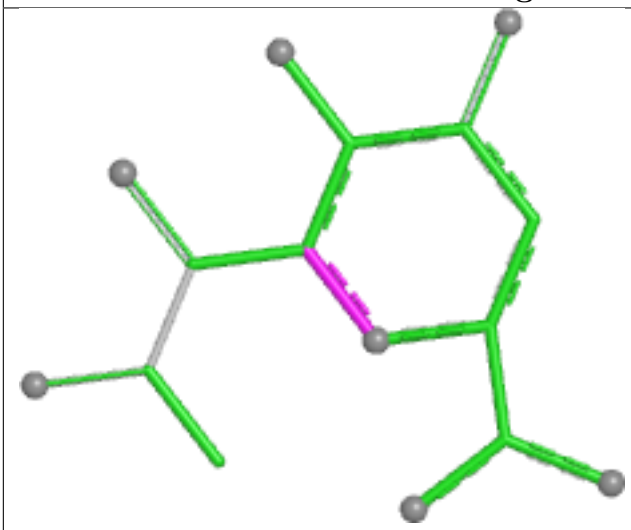


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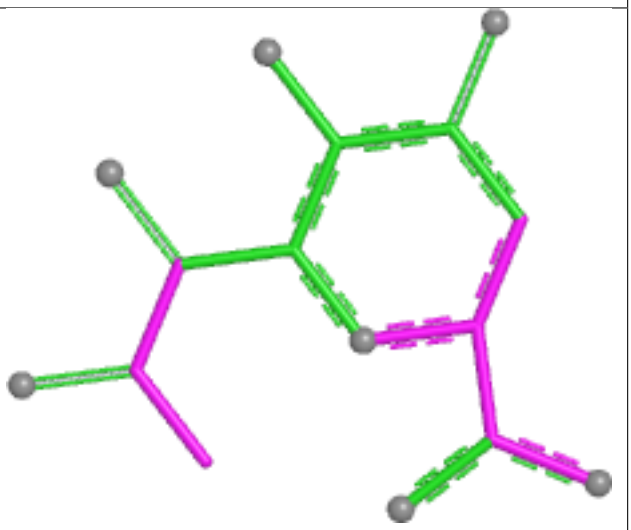


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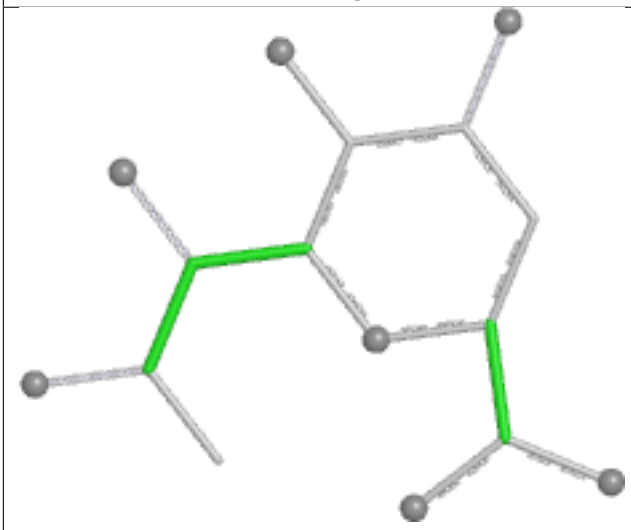
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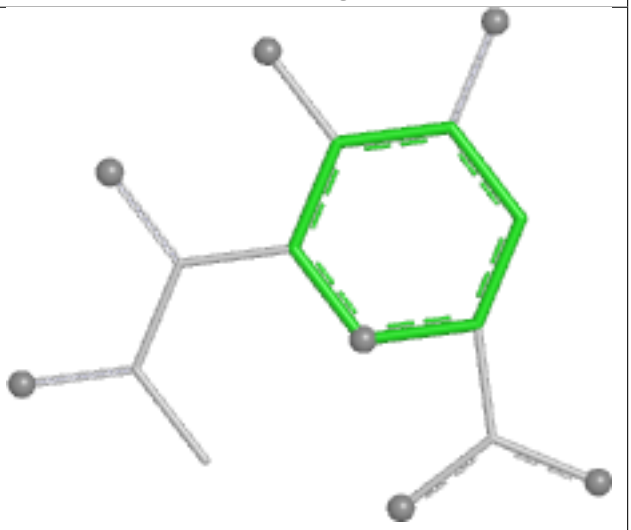
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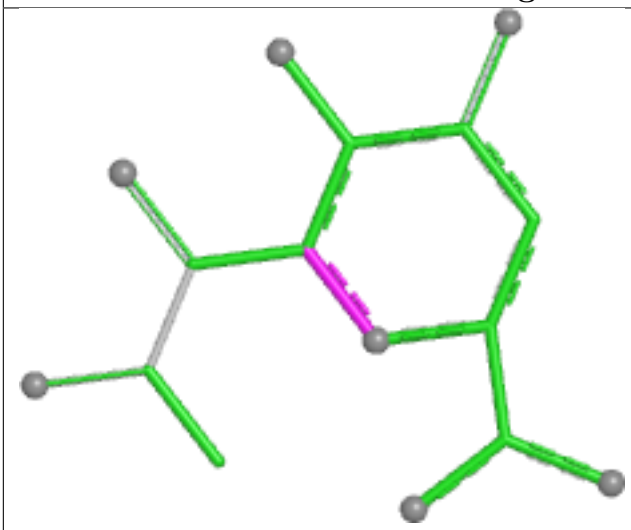


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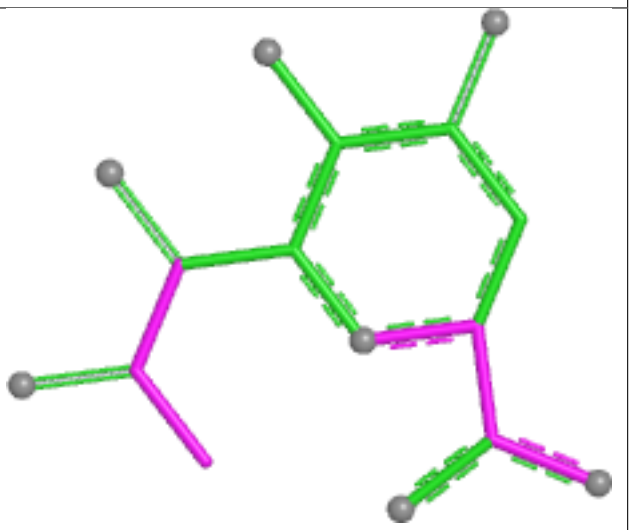


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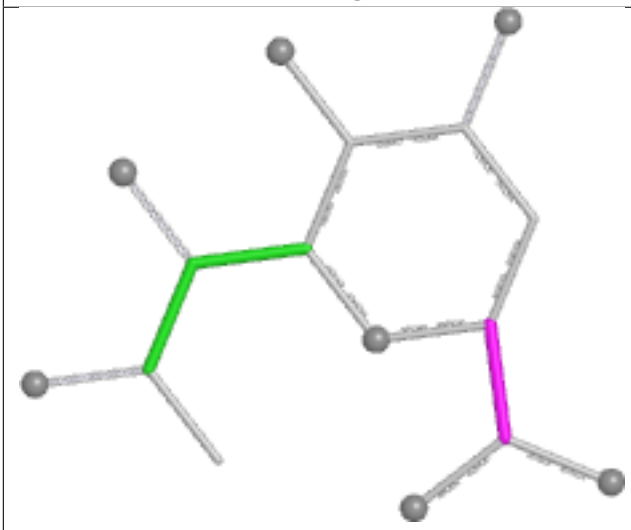
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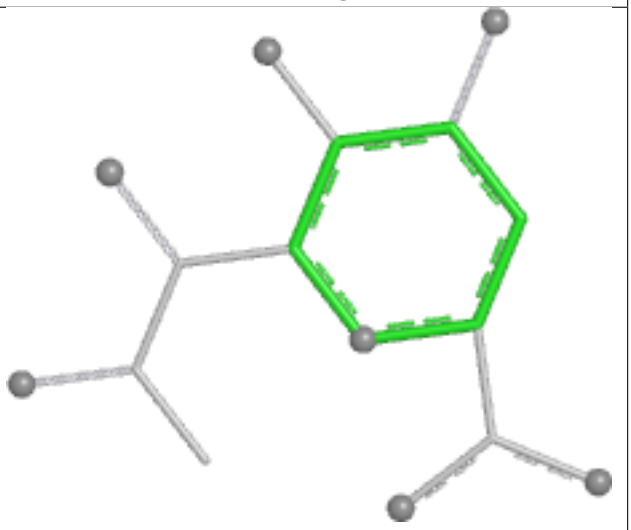
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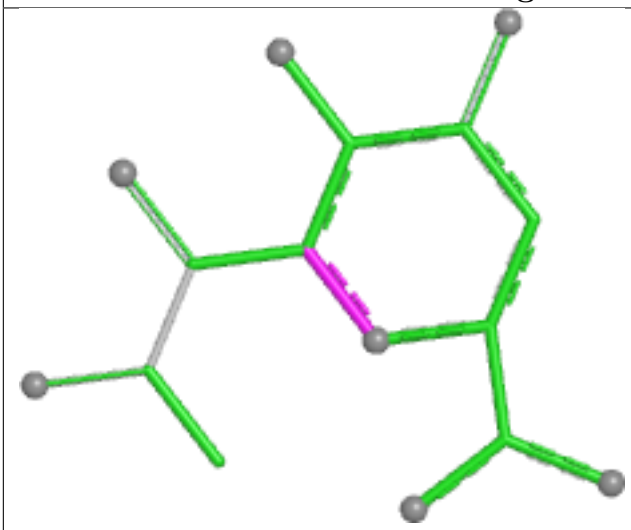


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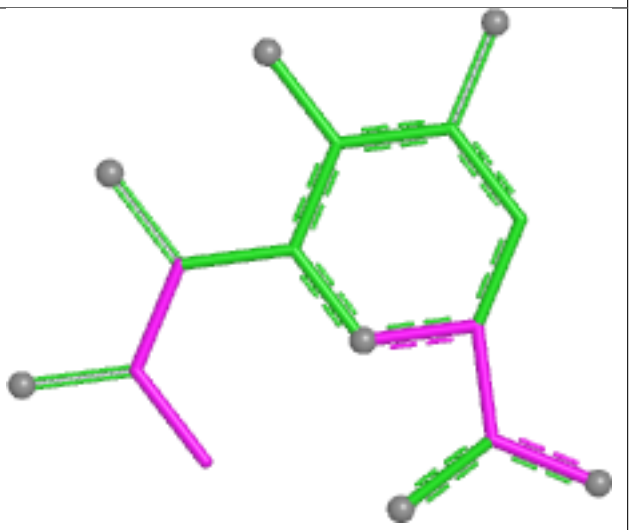


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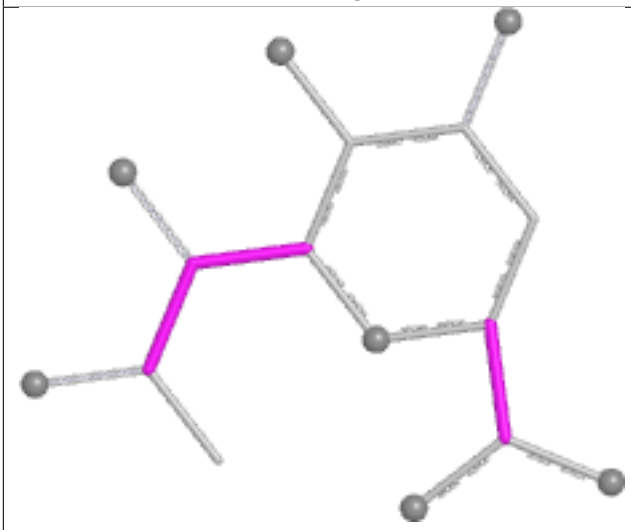
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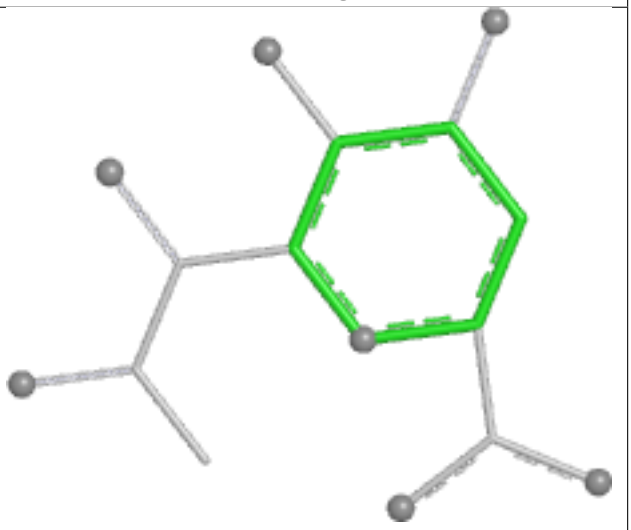
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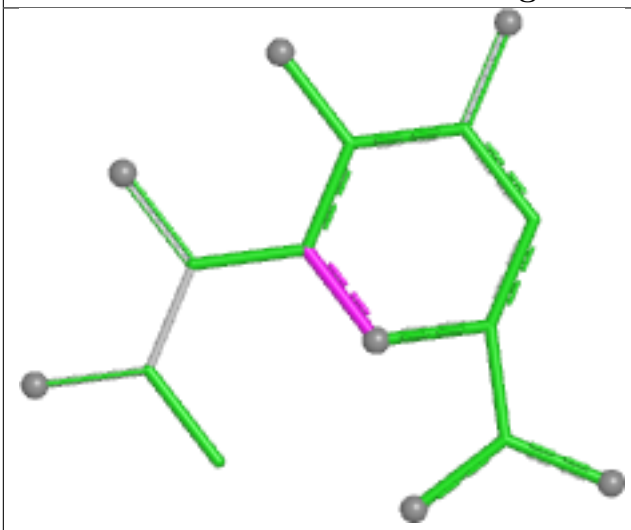


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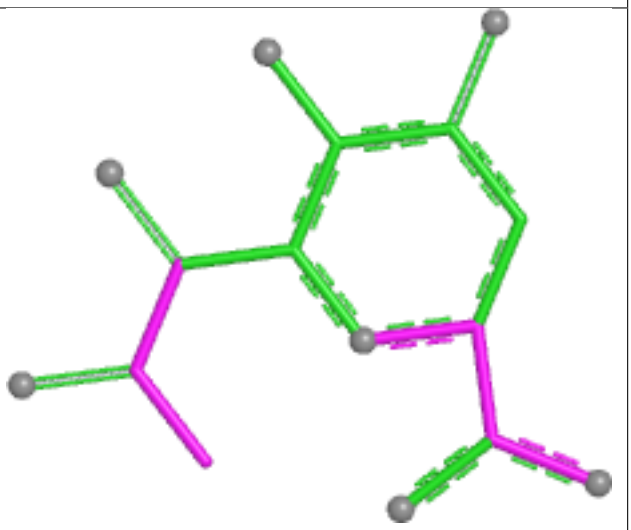


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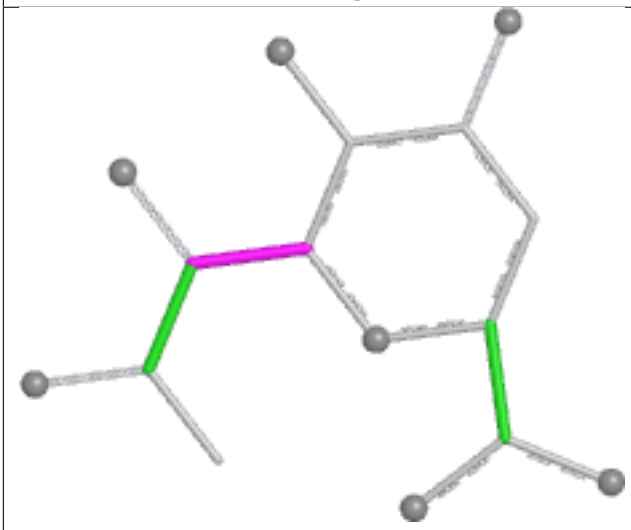
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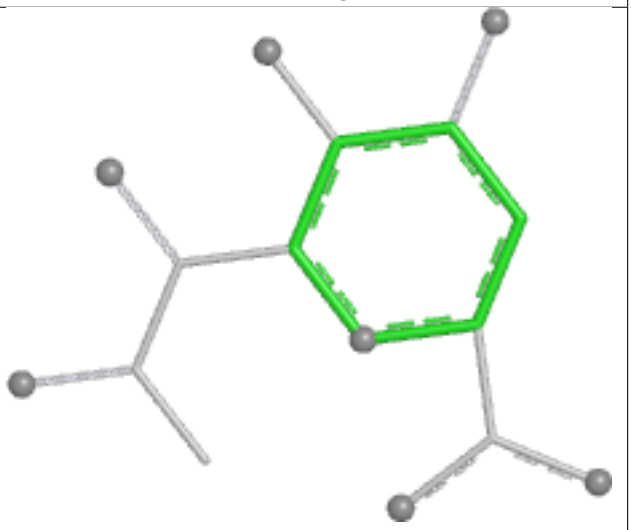
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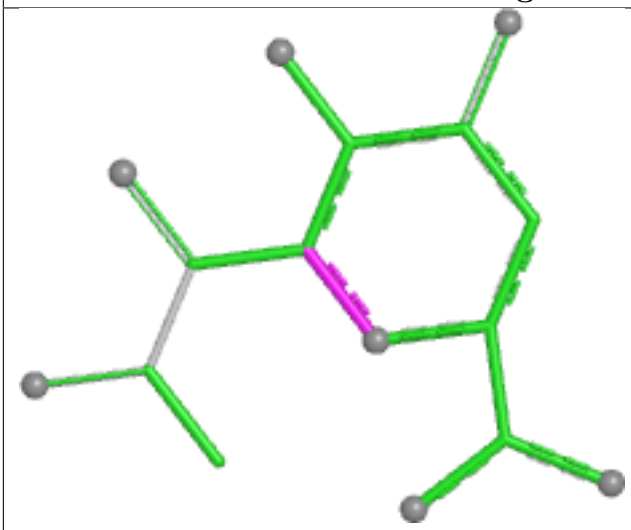


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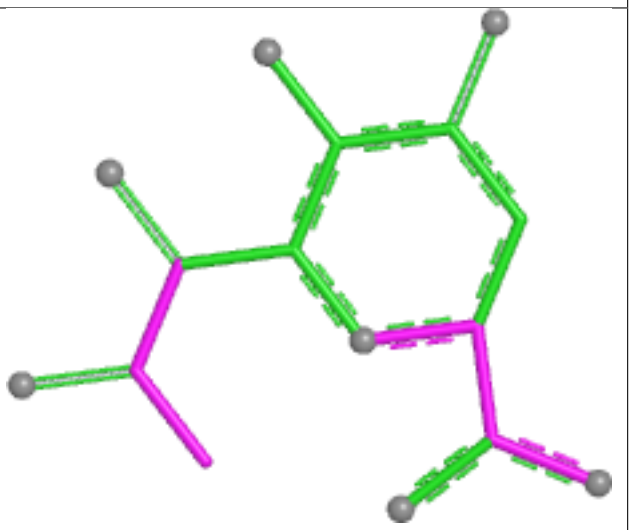


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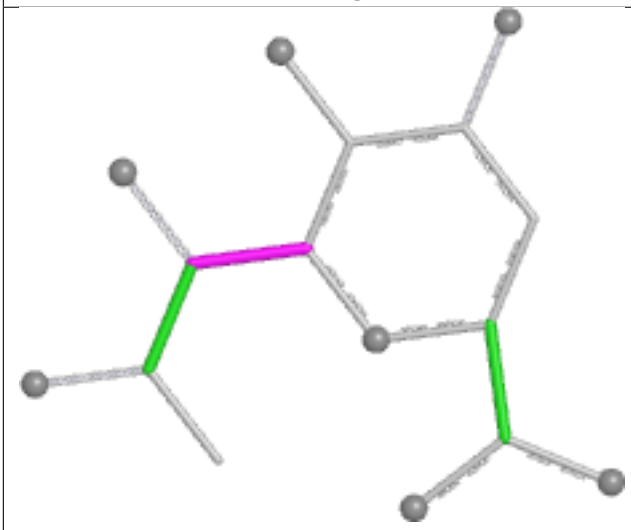
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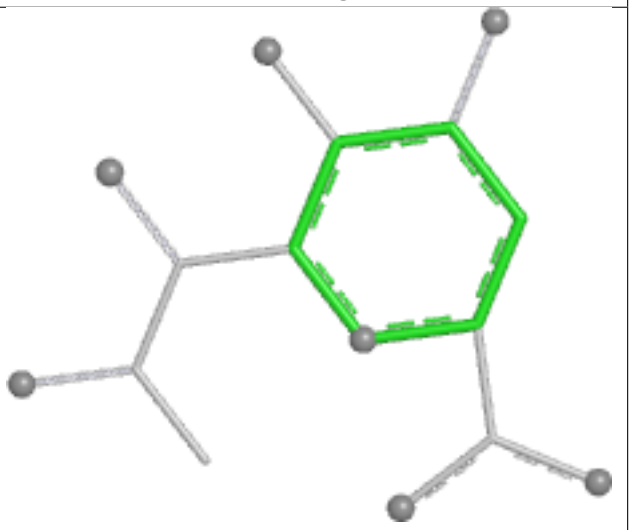
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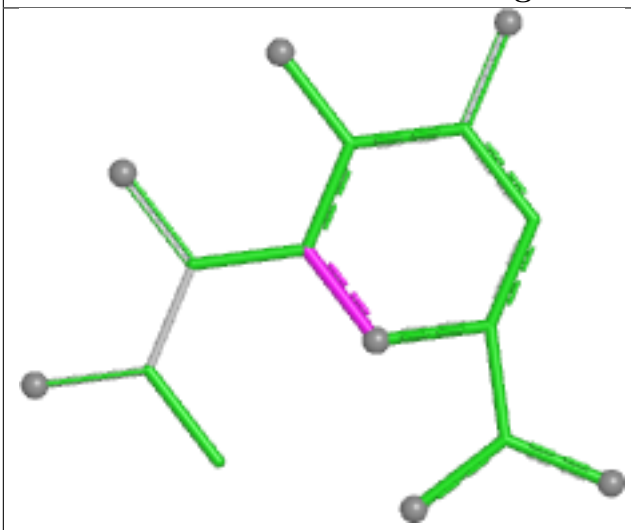


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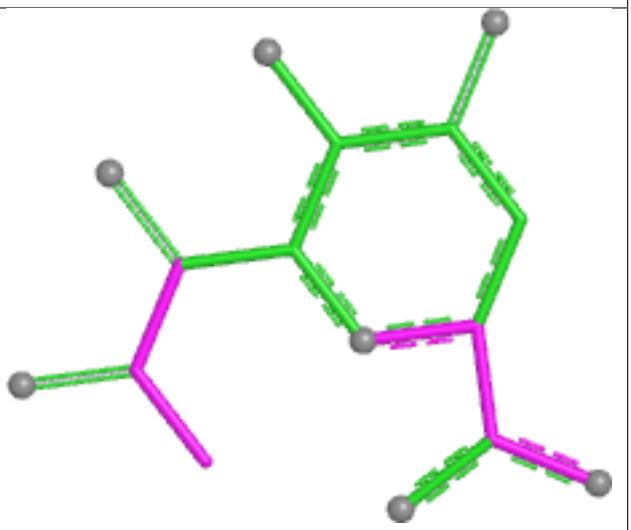


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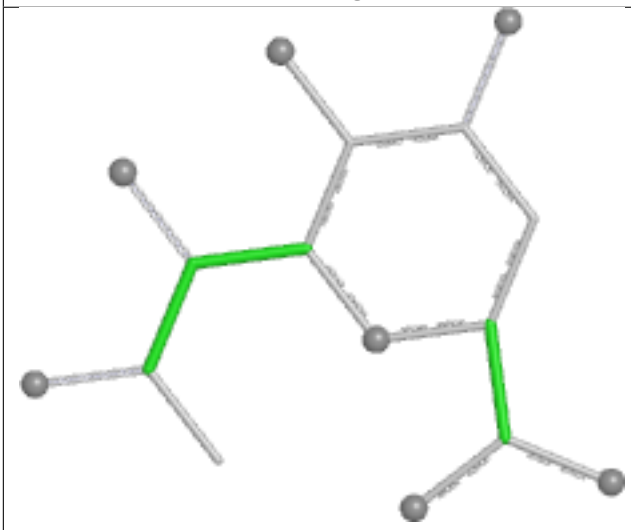
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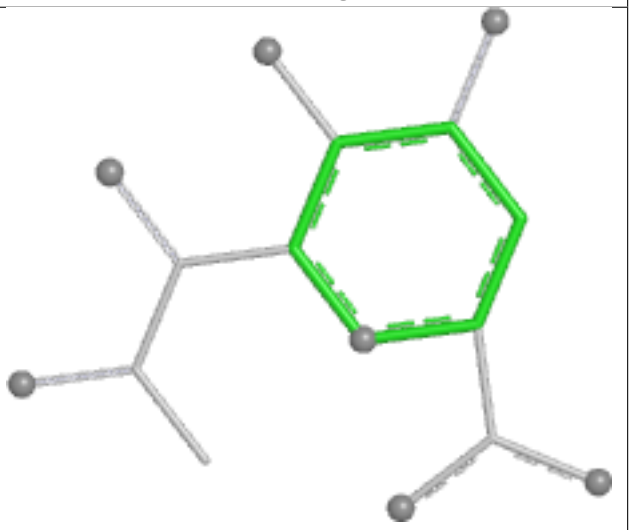
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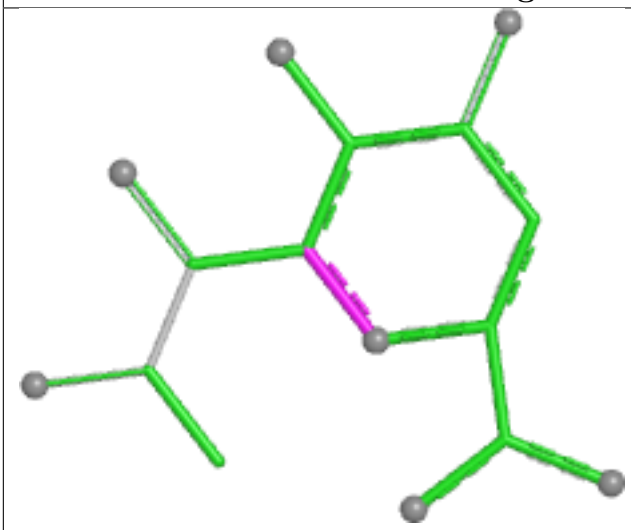


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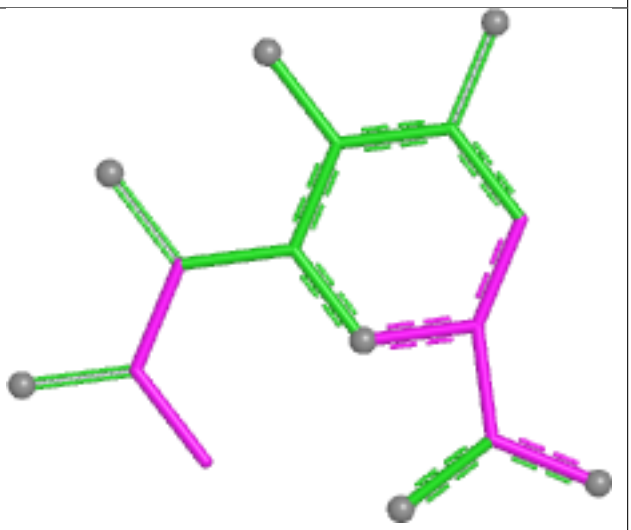


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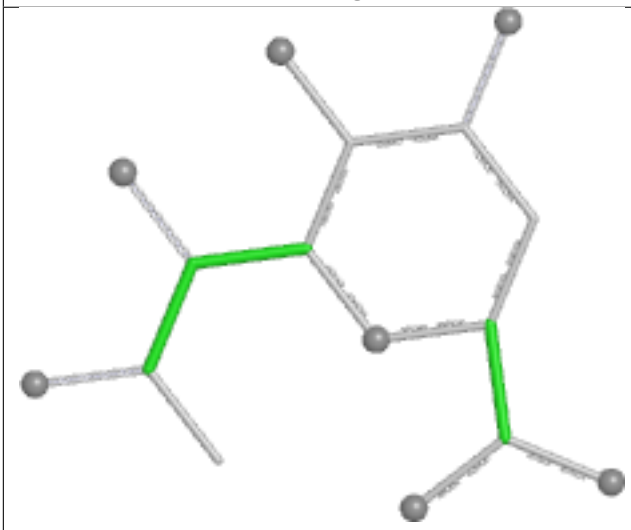
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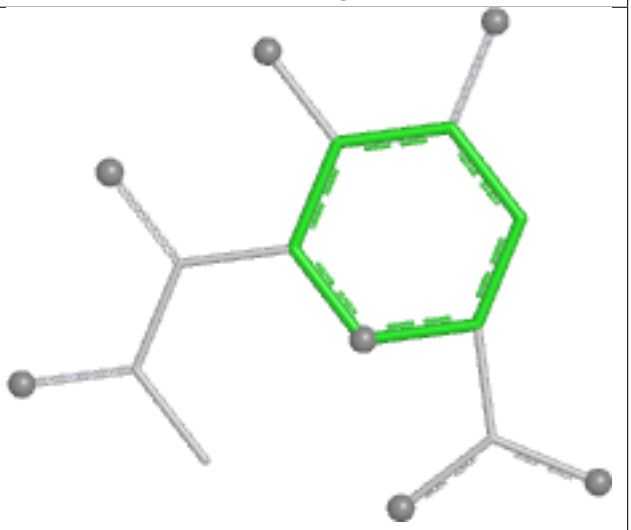
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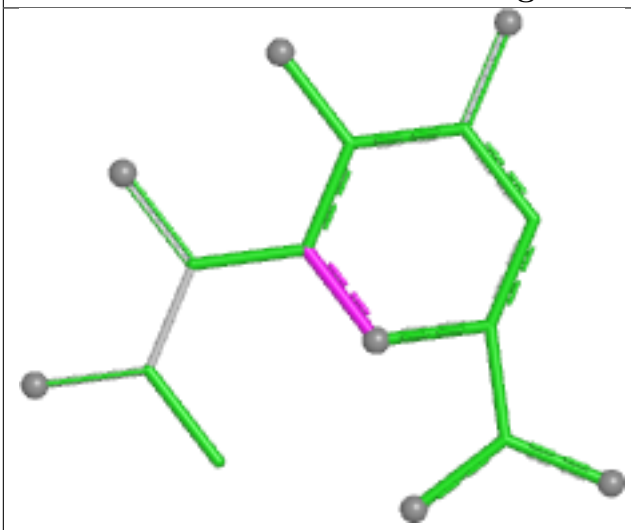


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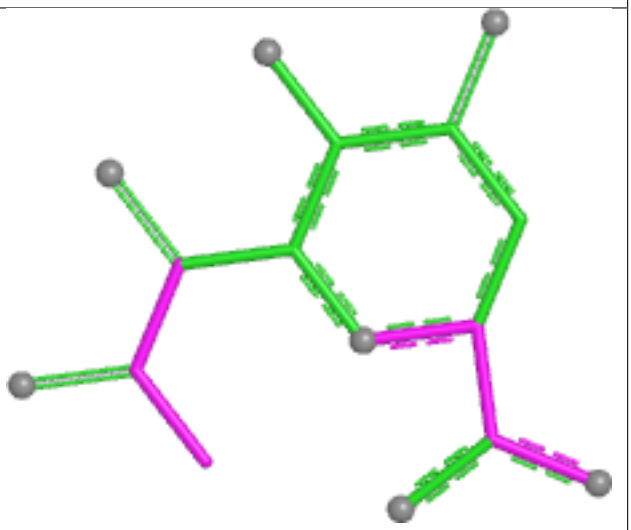


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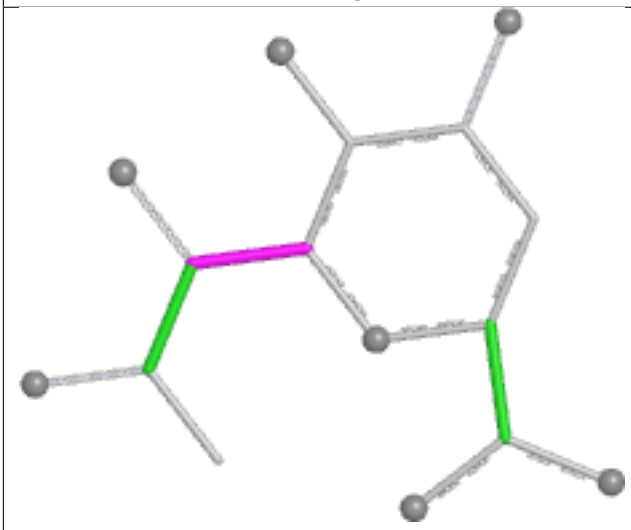
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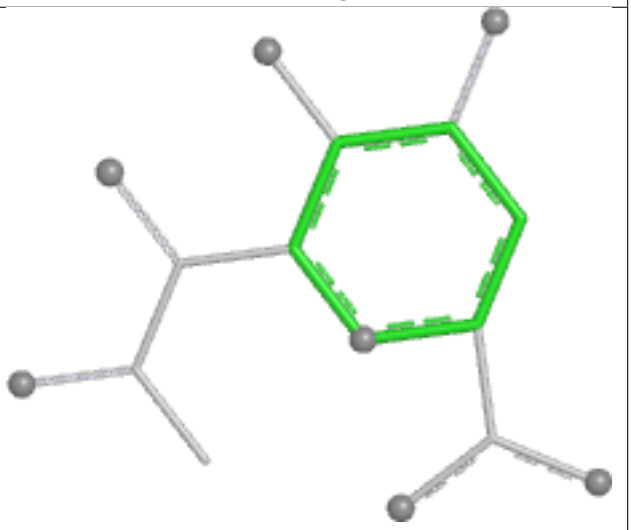
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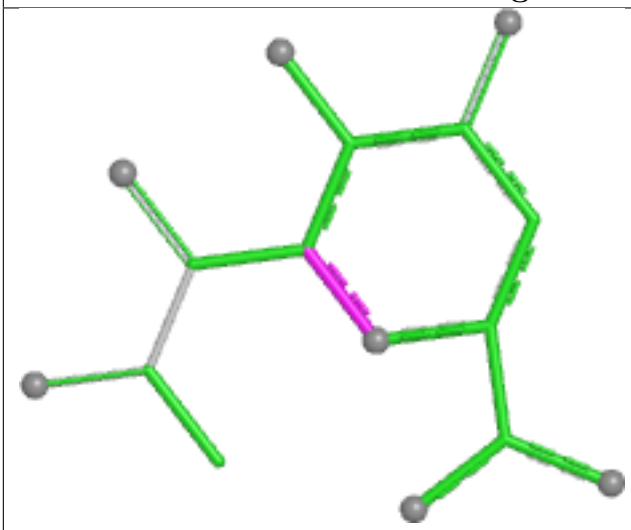


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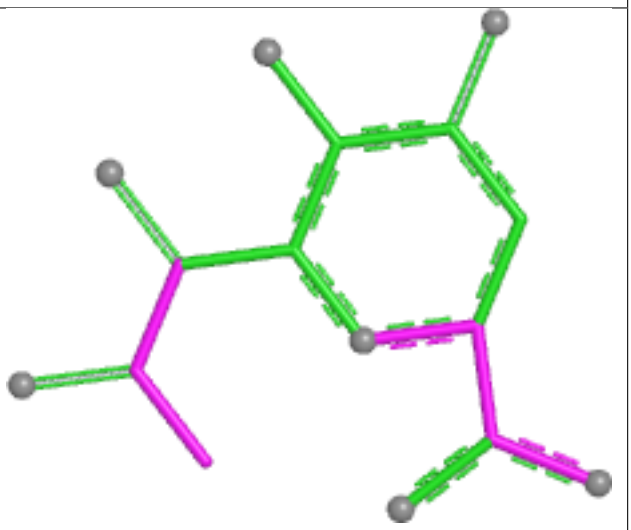


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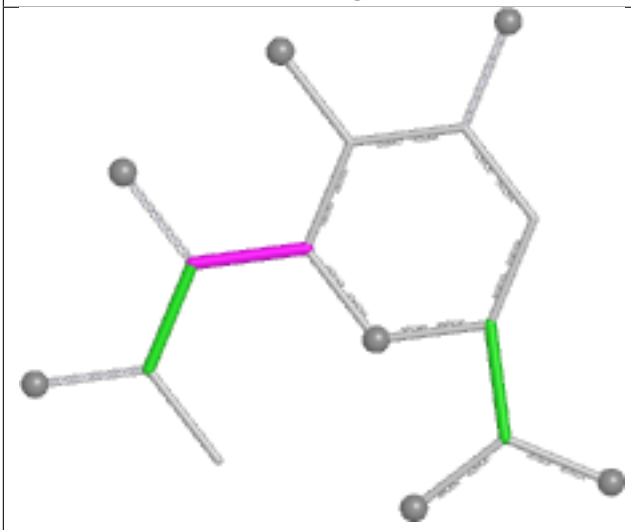
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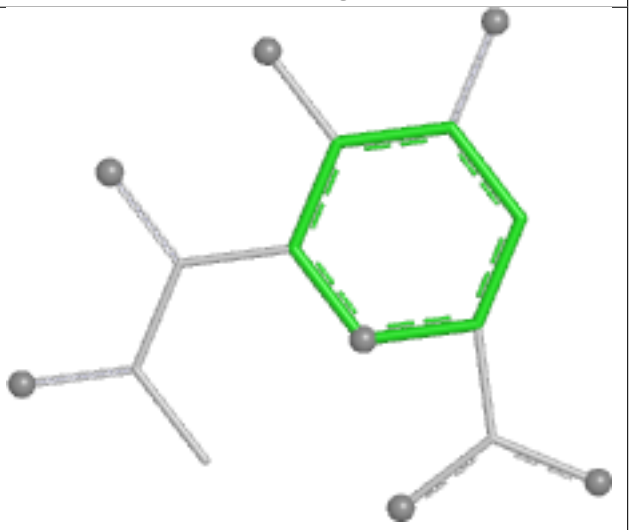
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Bond angles

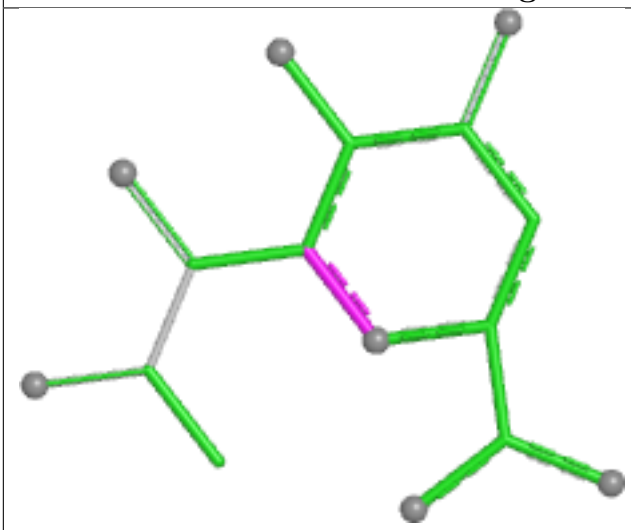


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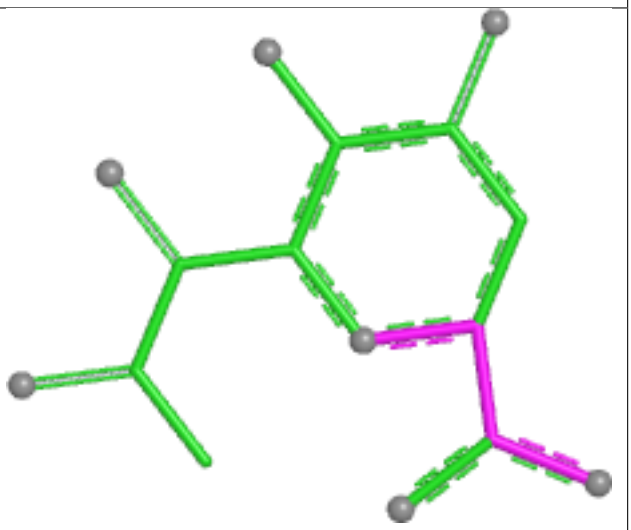


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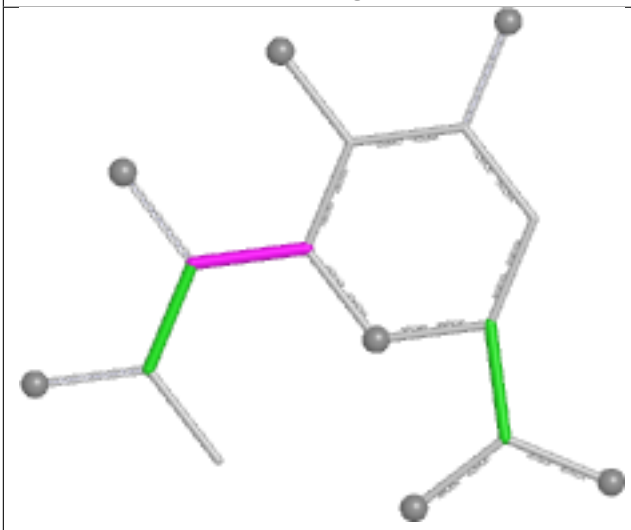
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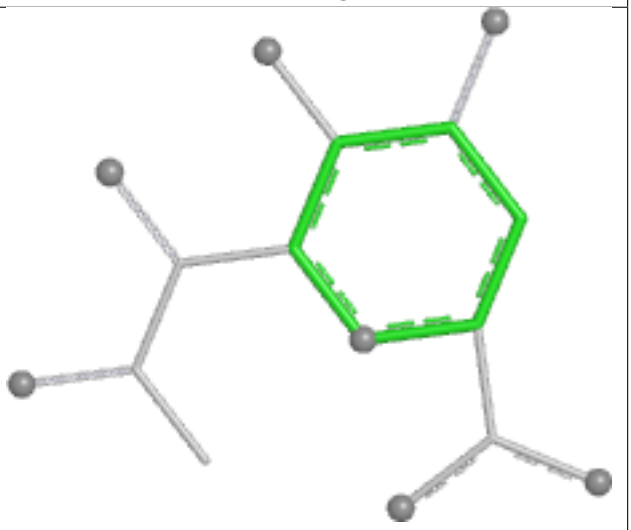
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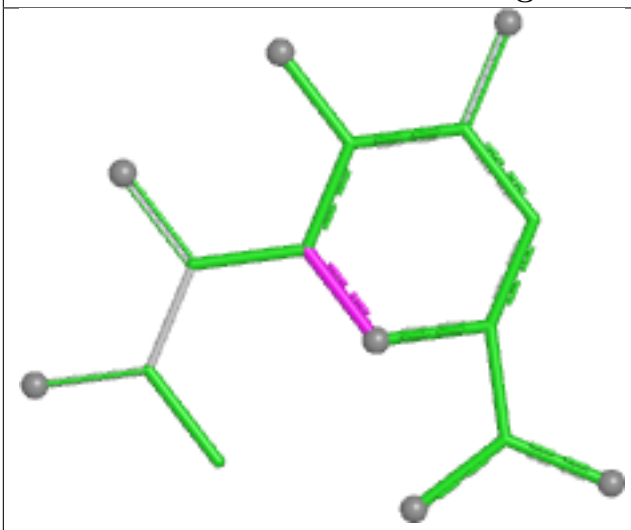


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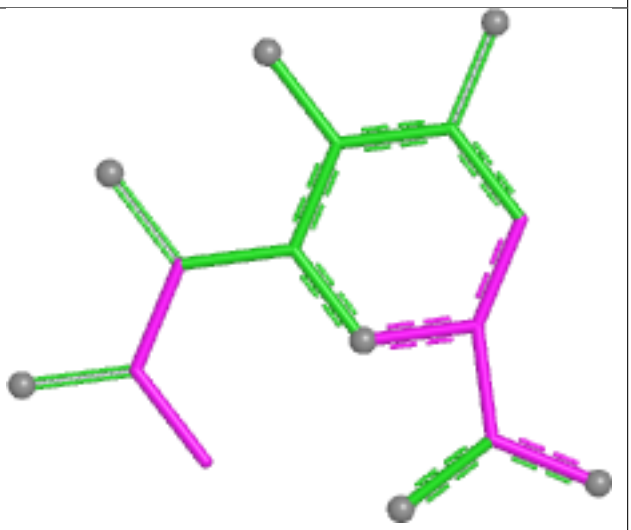


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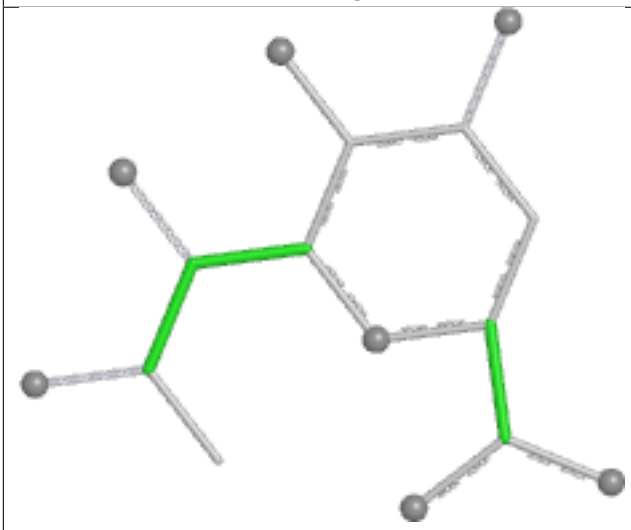
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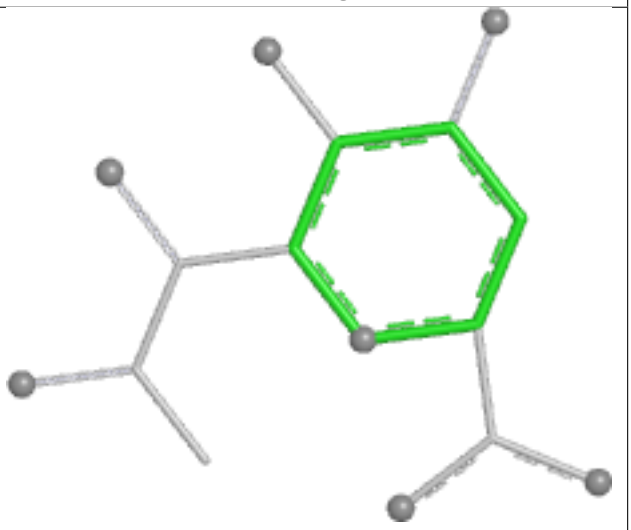
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Bond angles

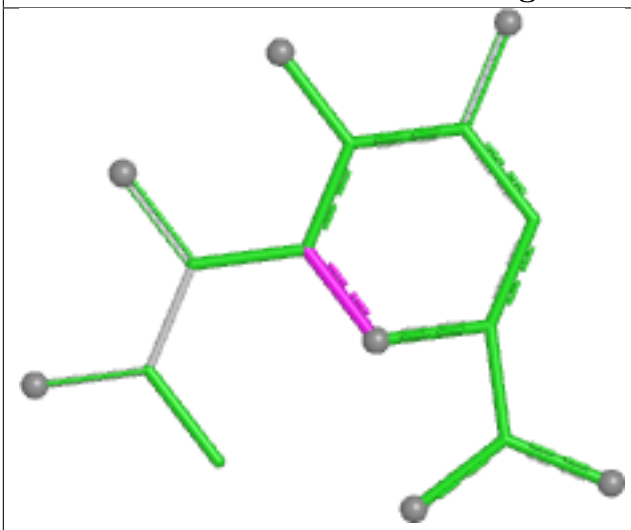


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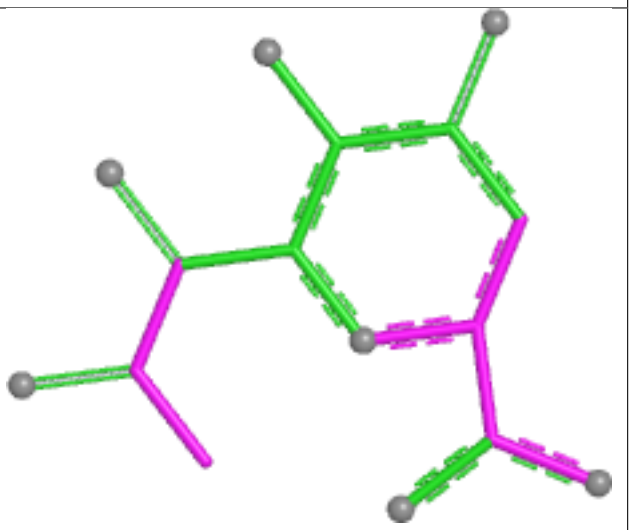


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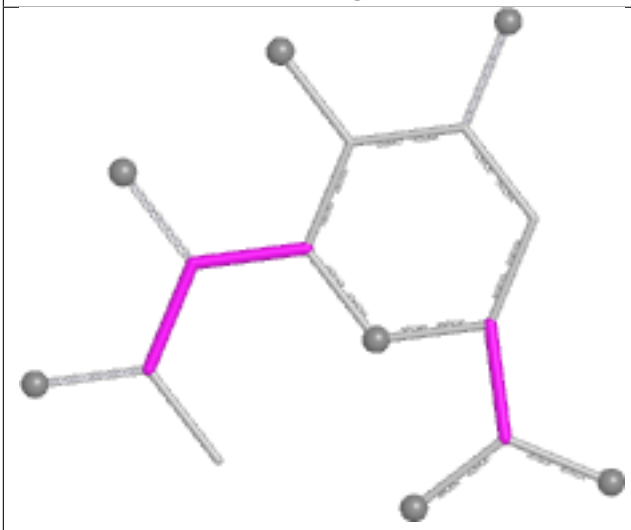
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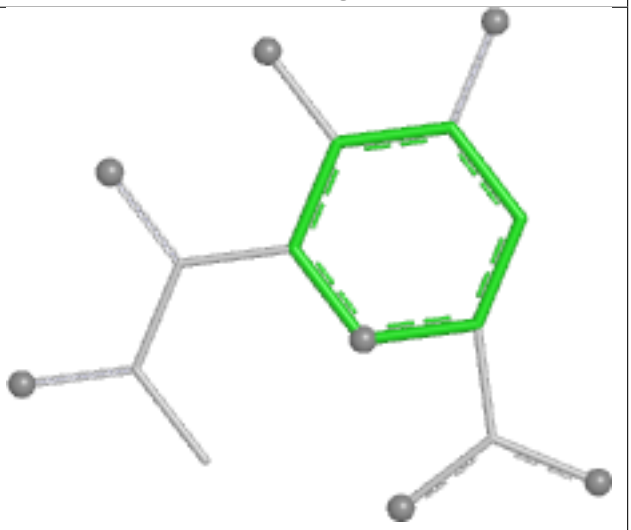
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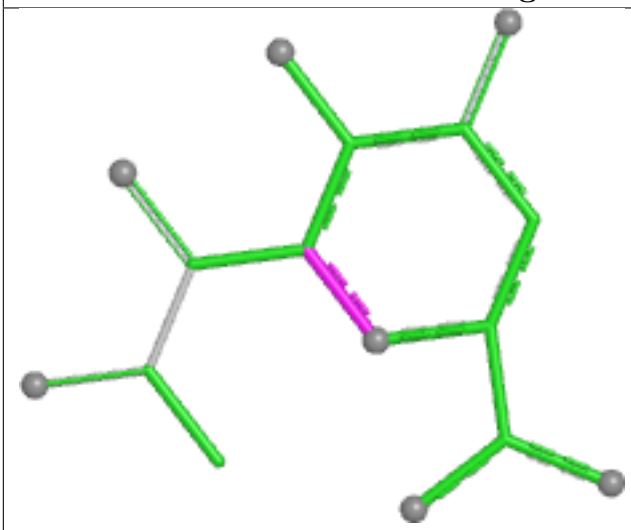


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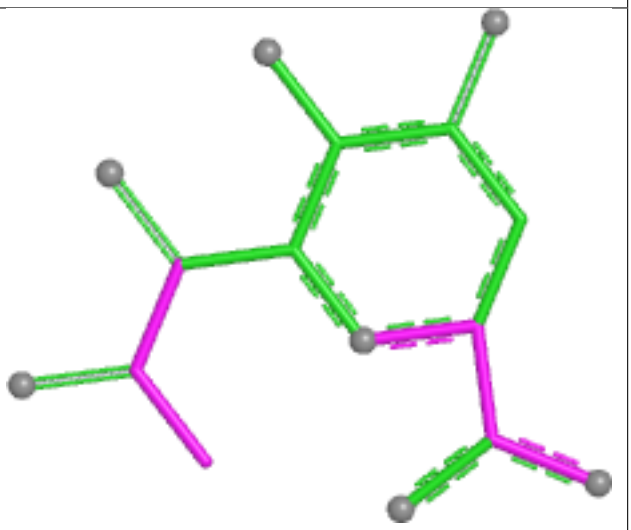


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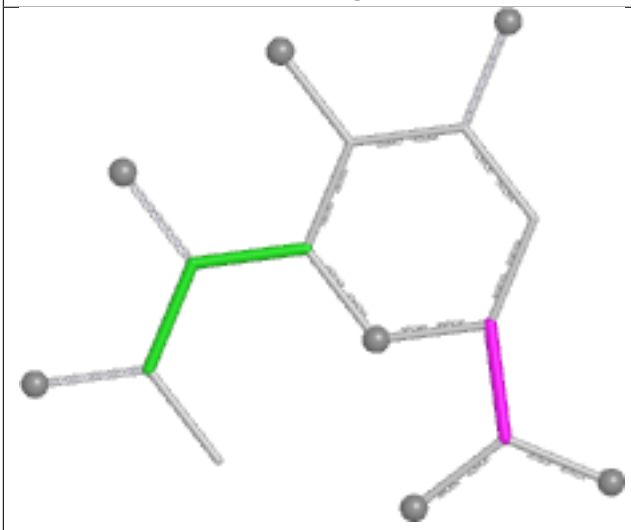
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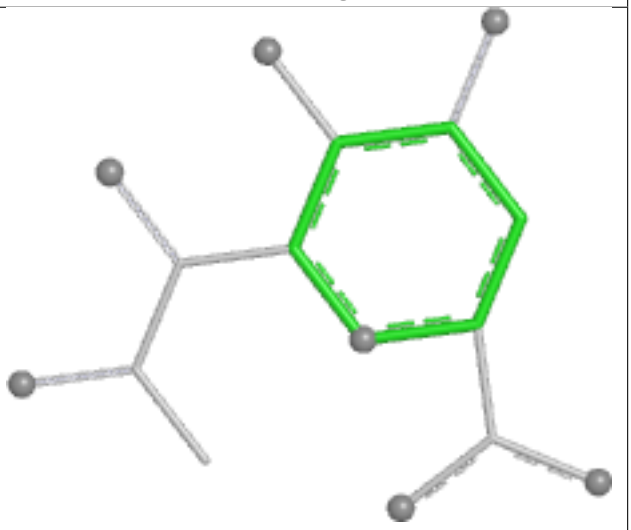
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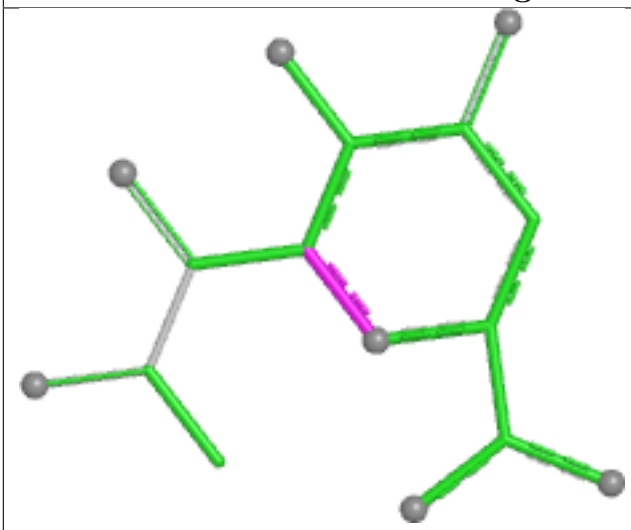


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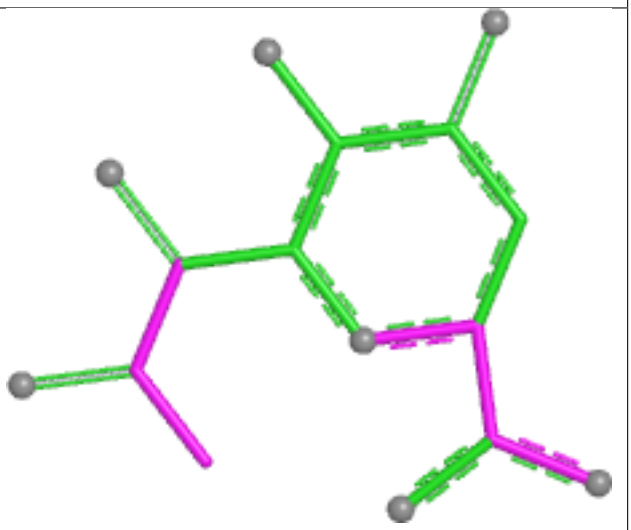


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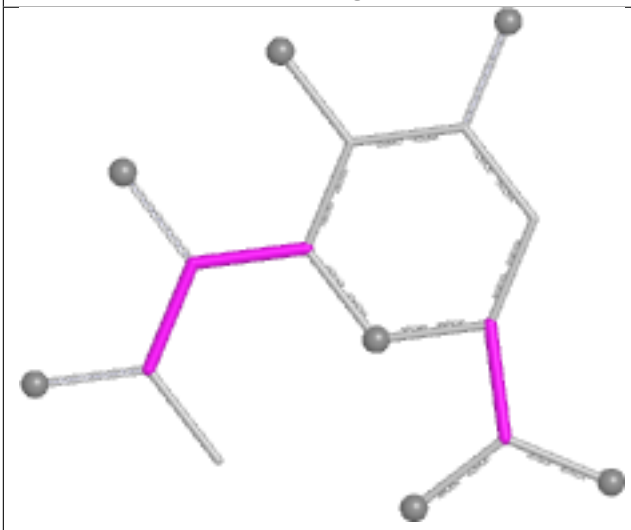
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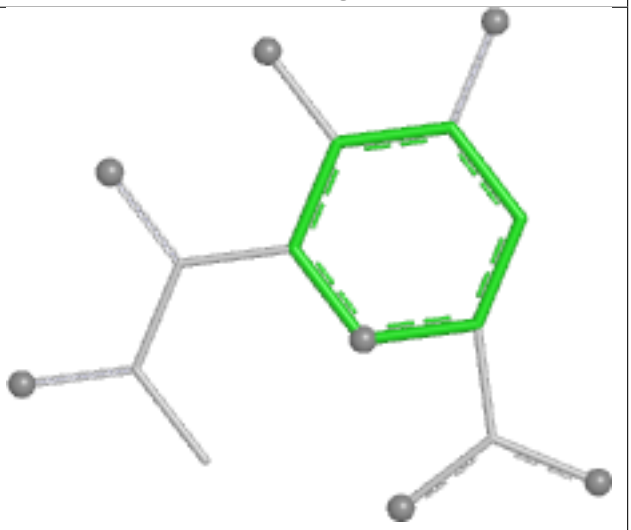
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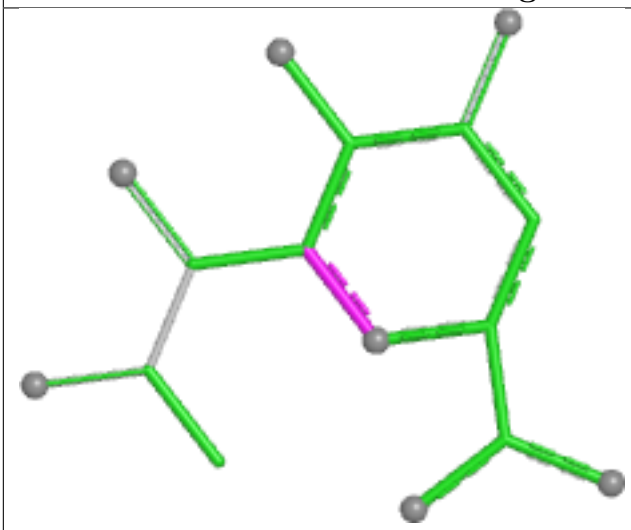


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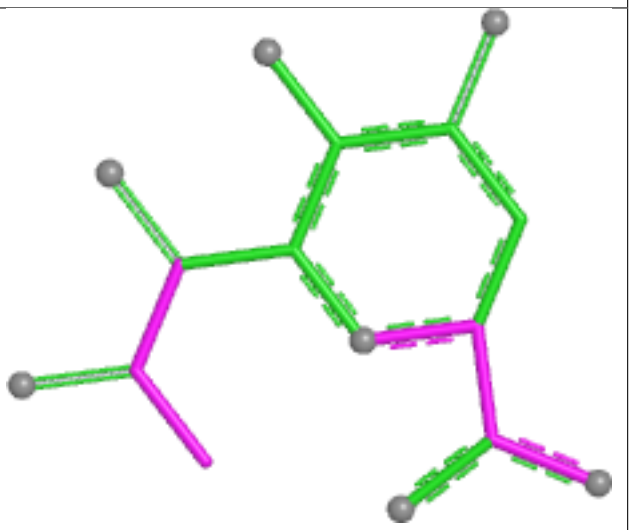


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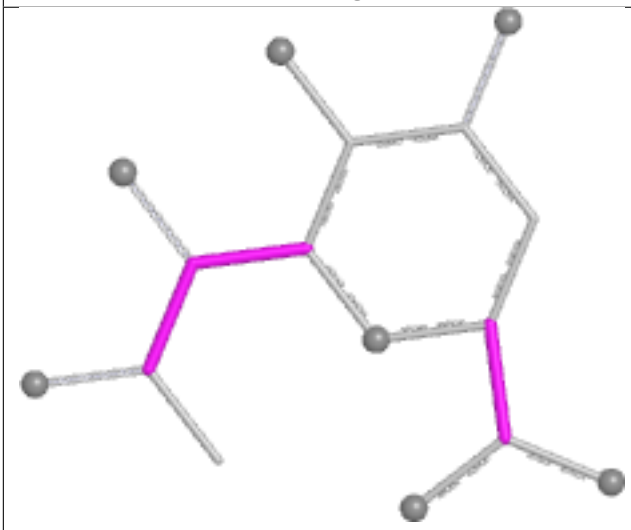
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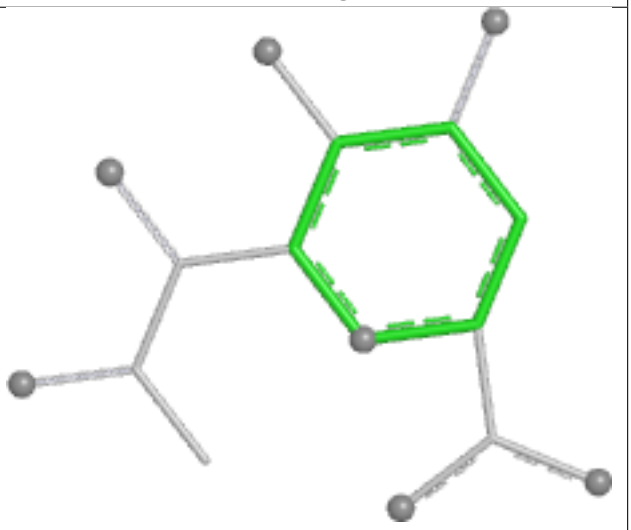
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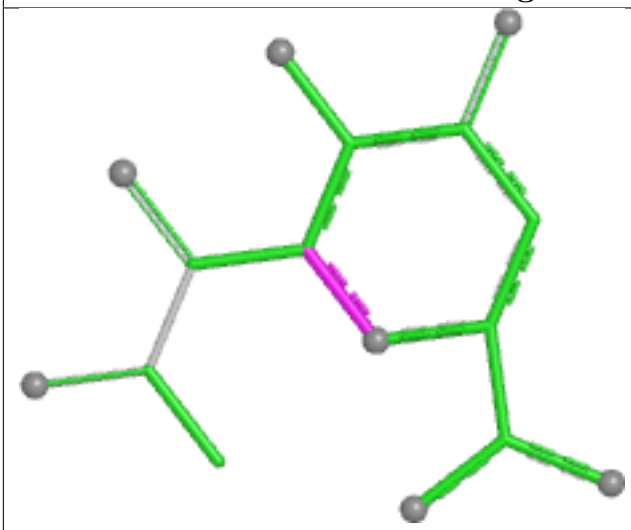


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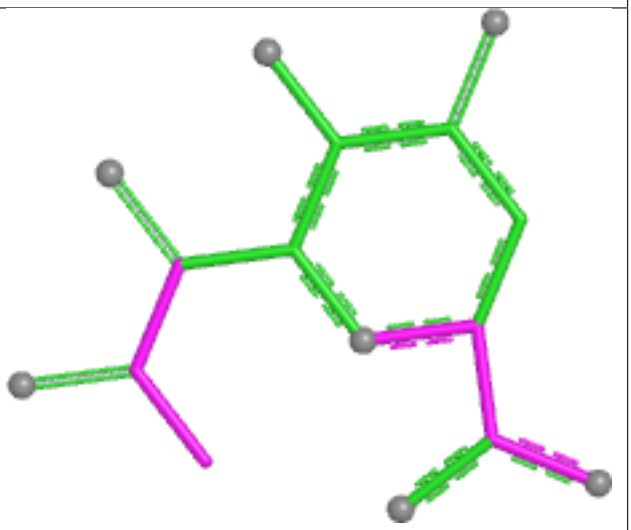


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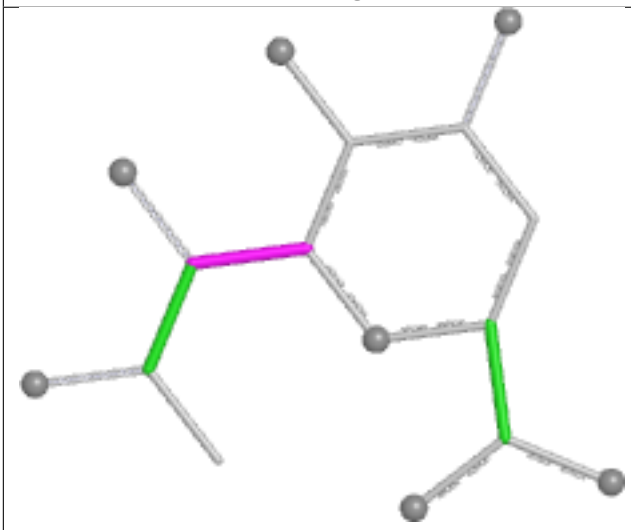
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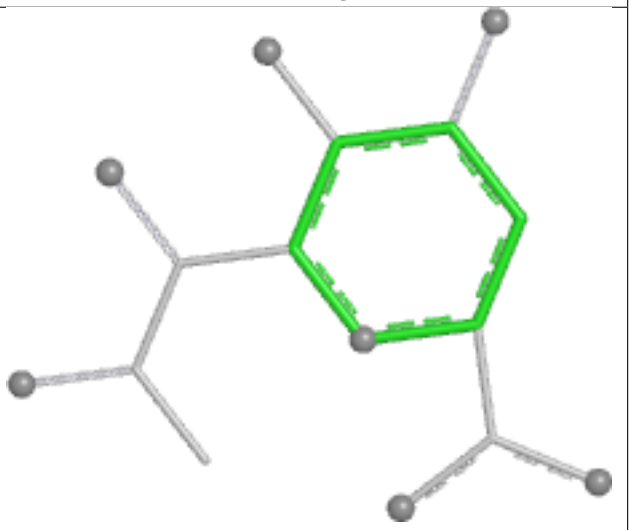
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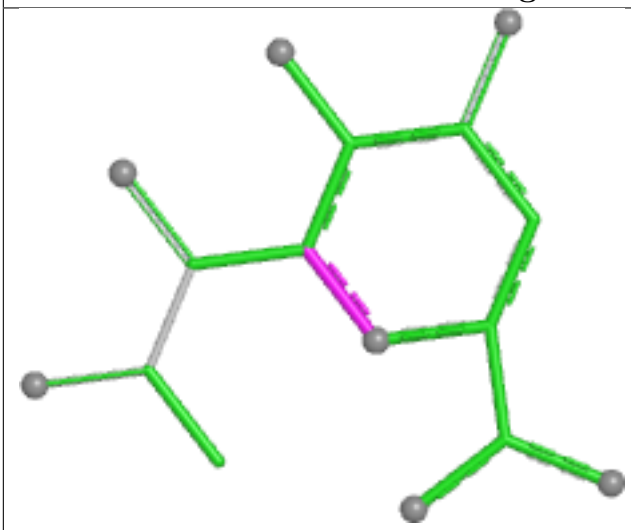


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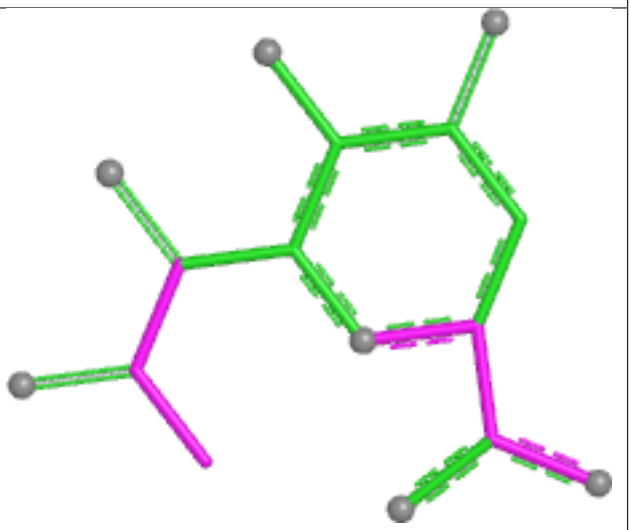


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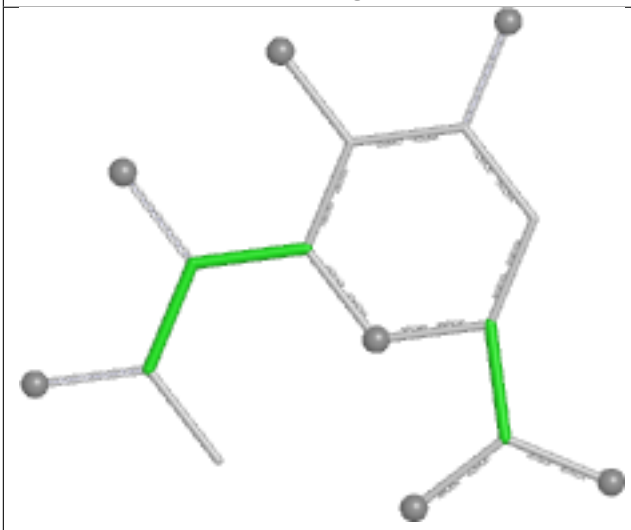
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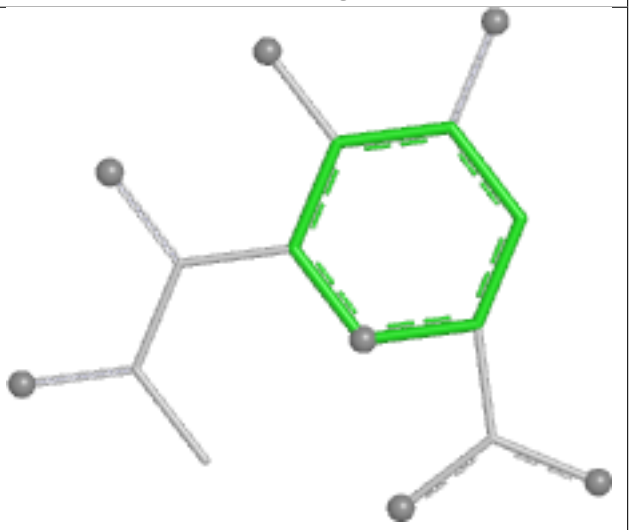
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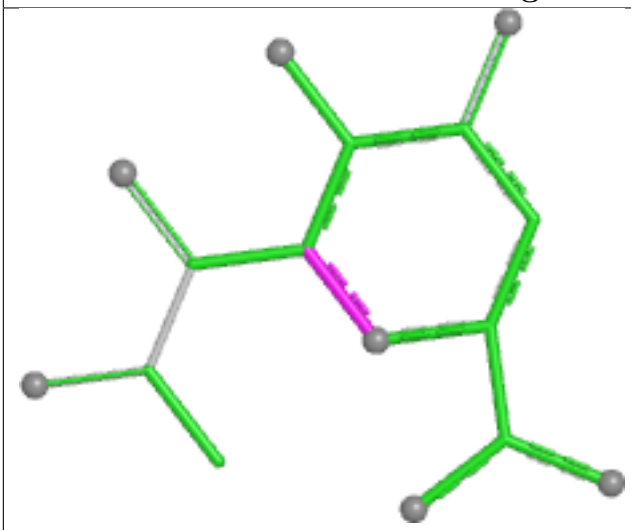


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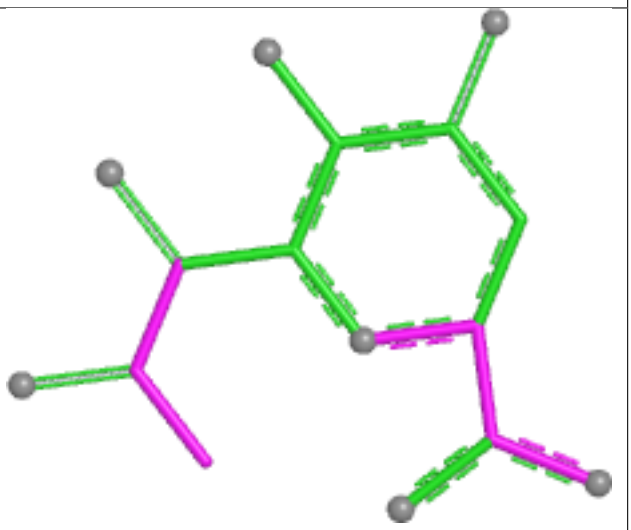


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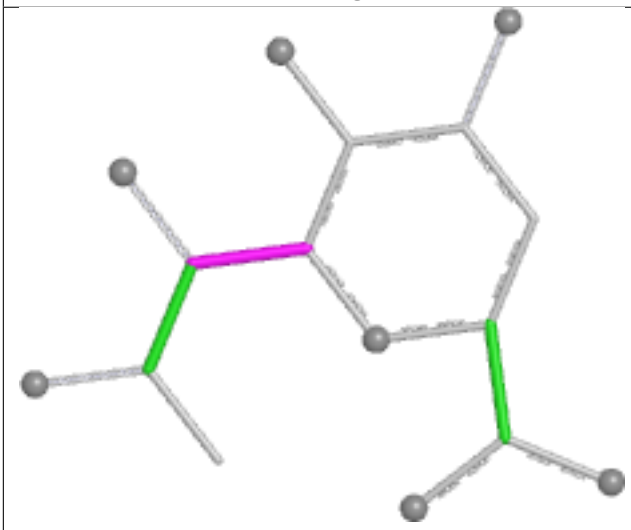
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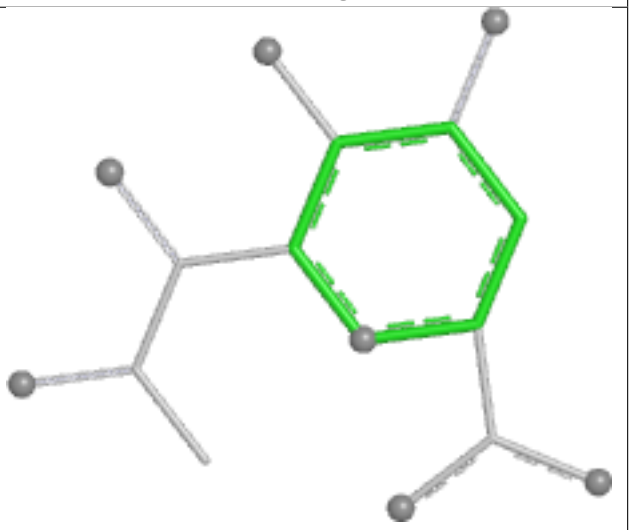
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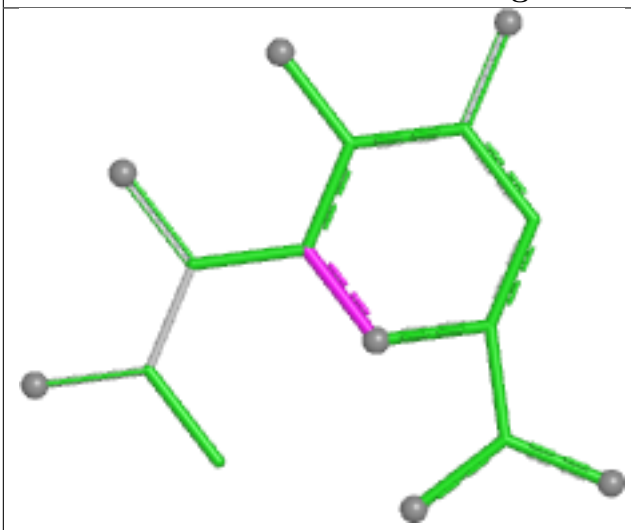


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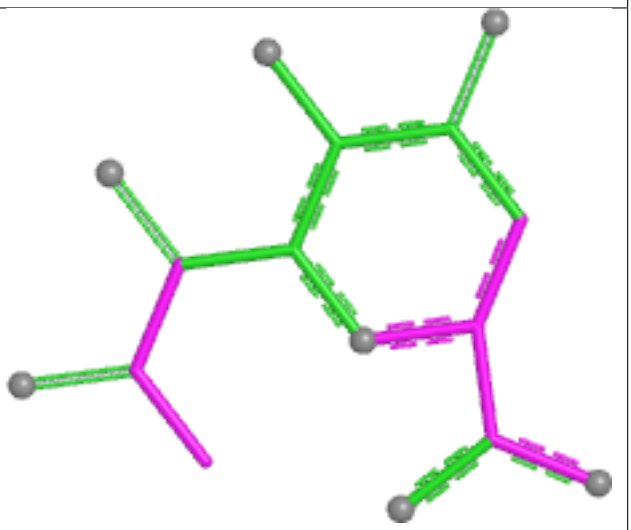


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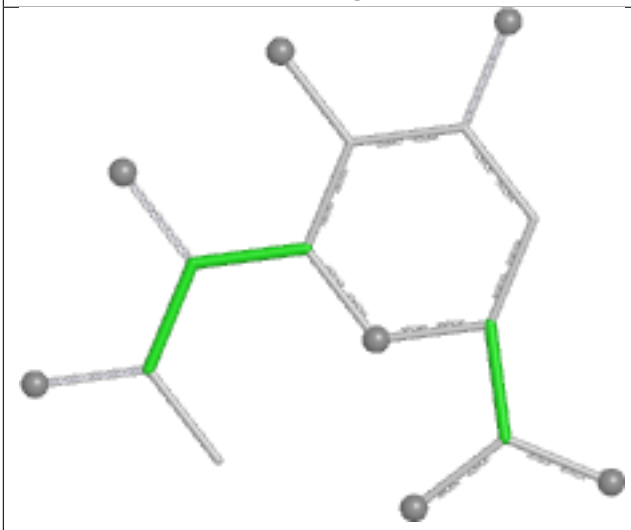
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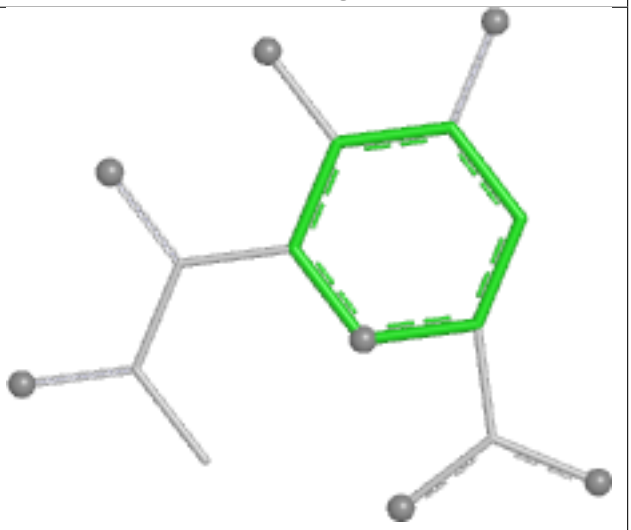
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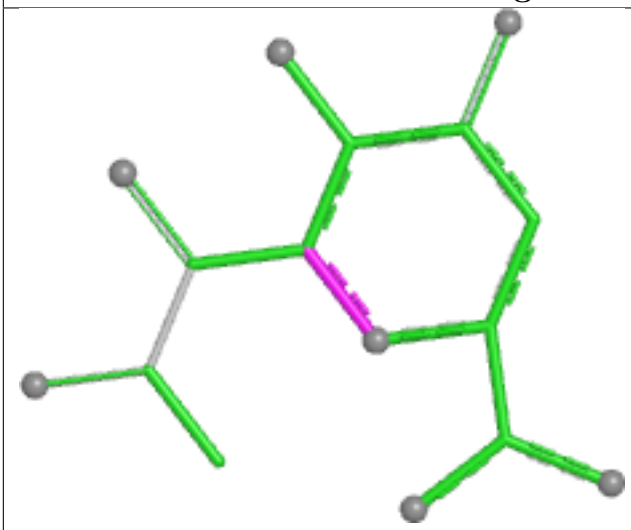


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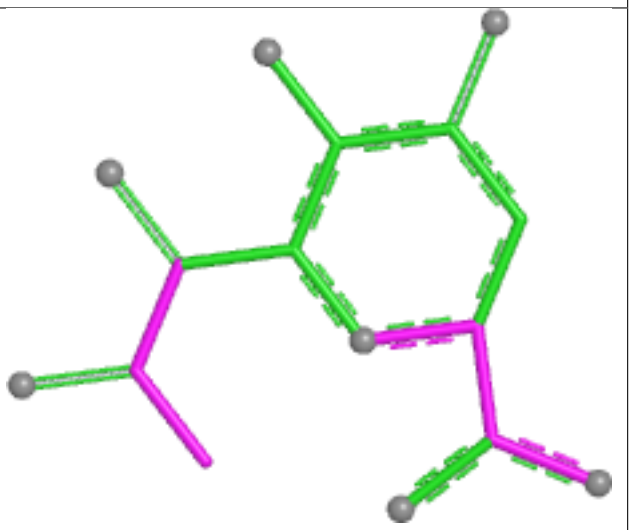


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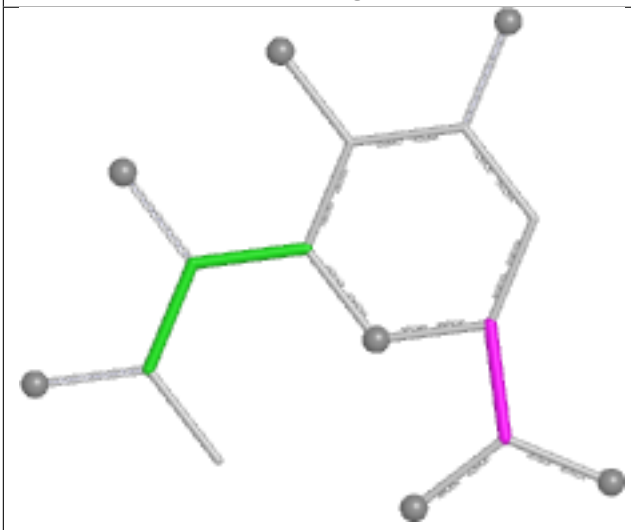
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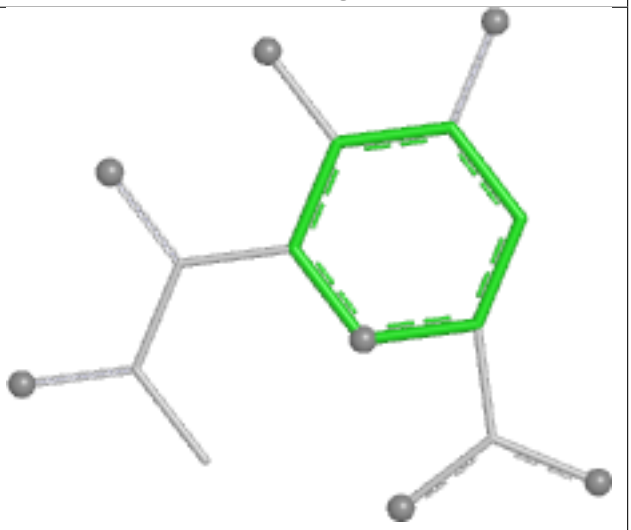
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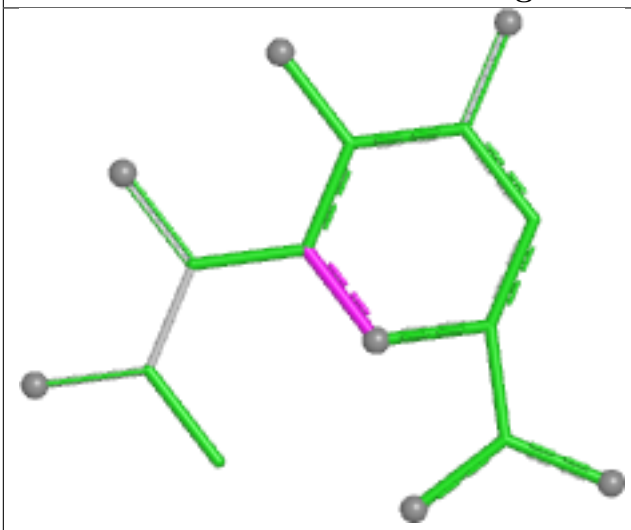


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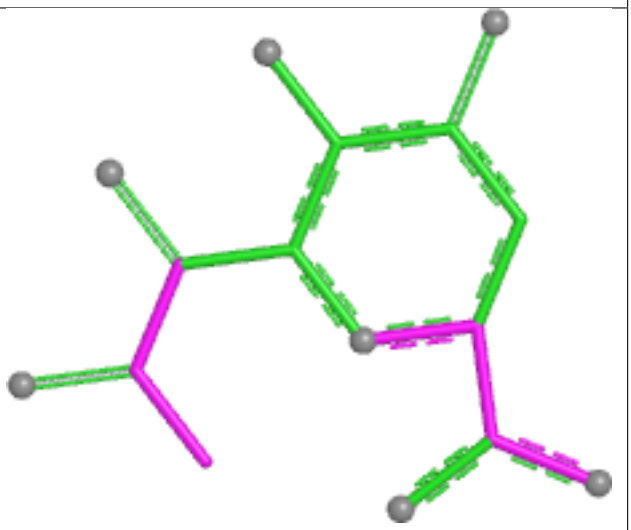


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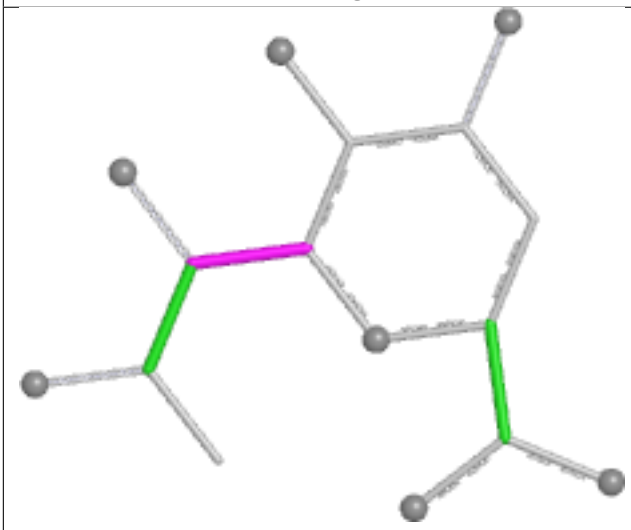
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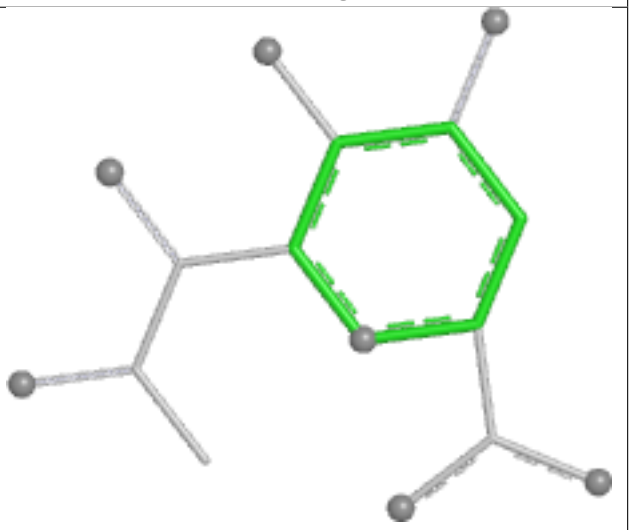
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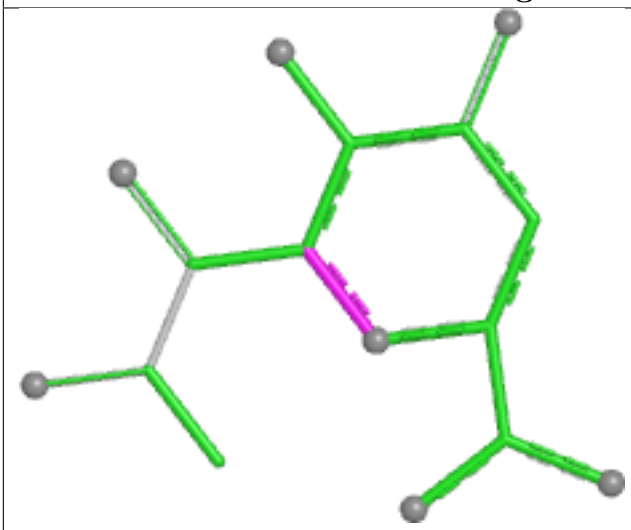


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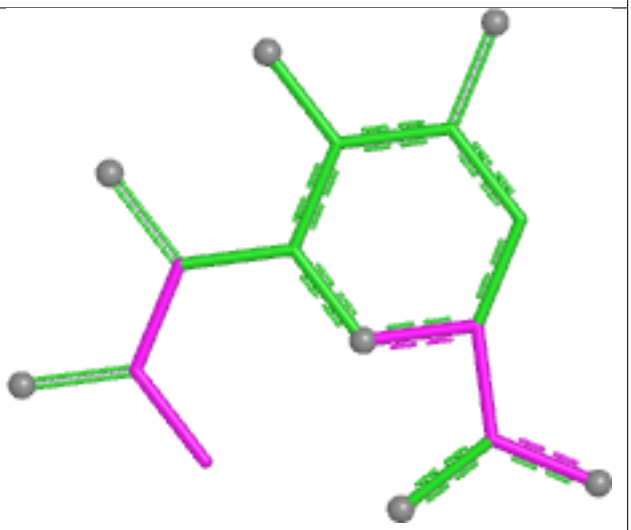


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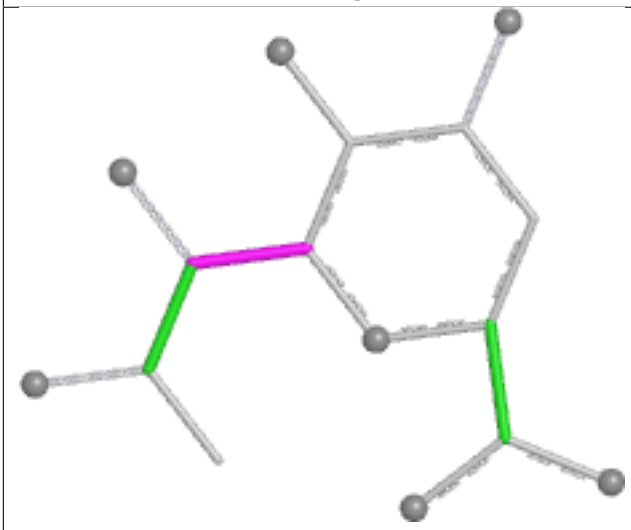
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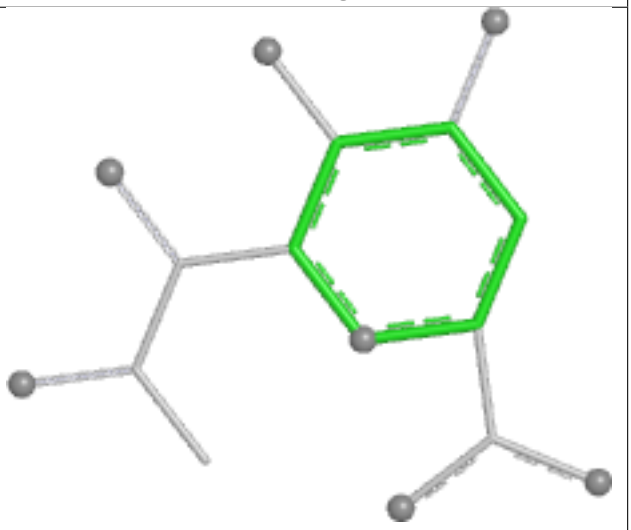
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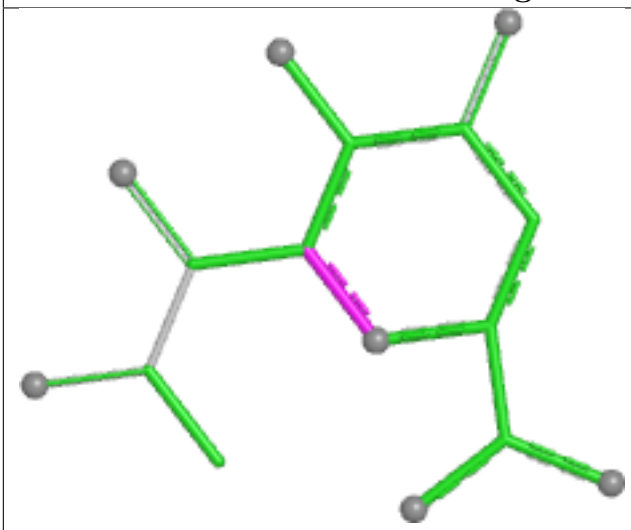


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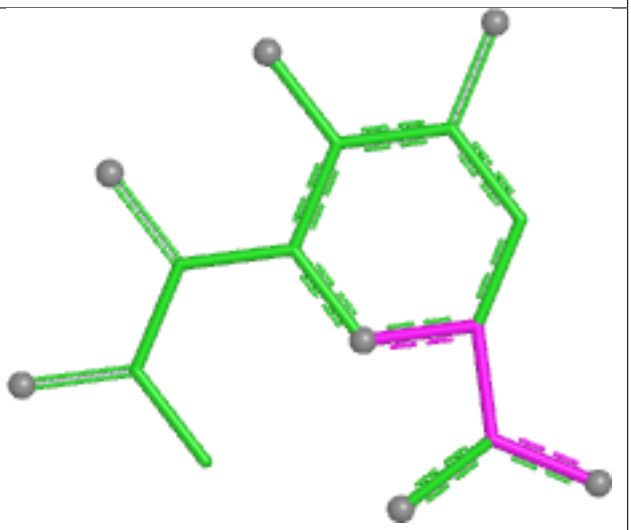


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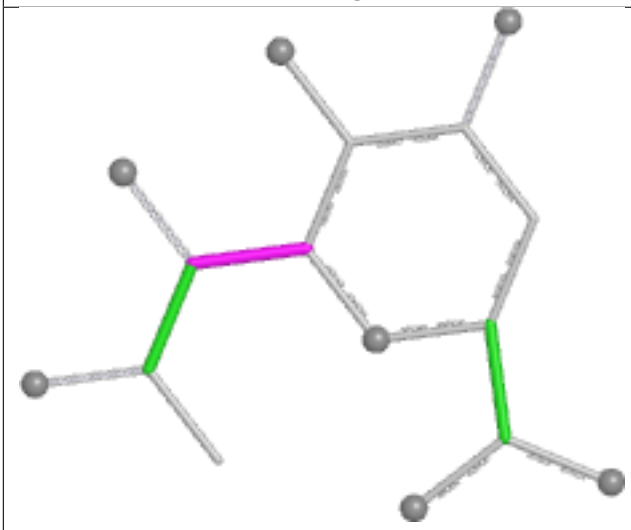
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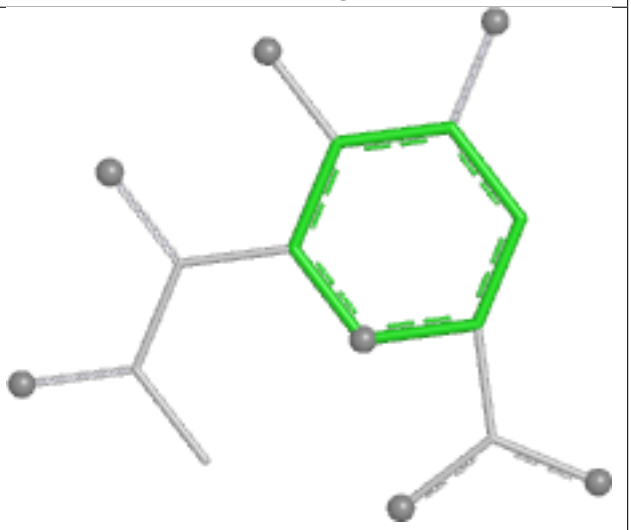
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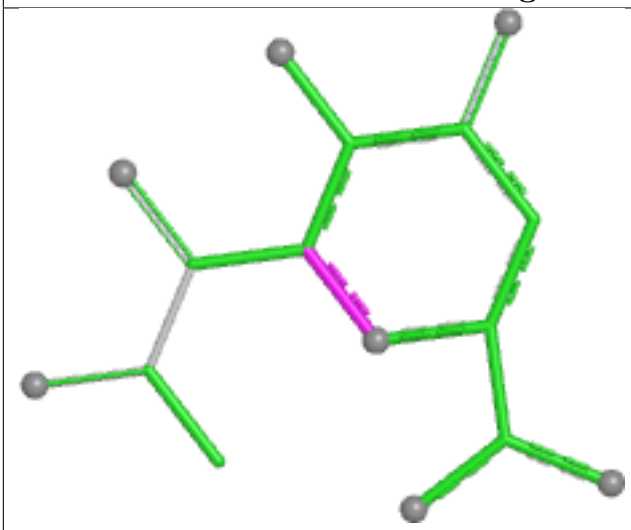


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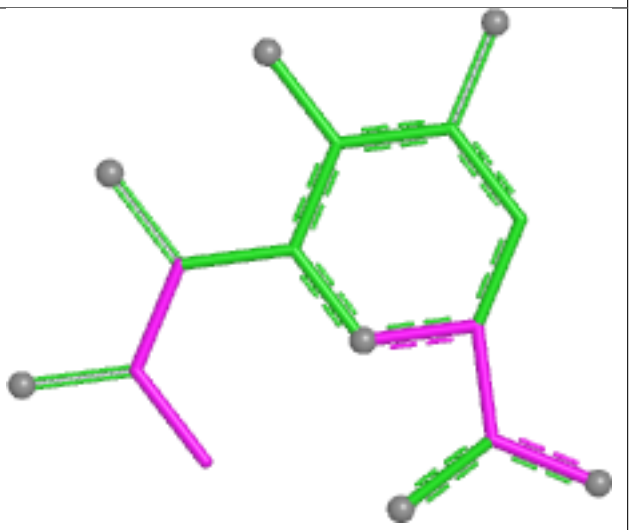


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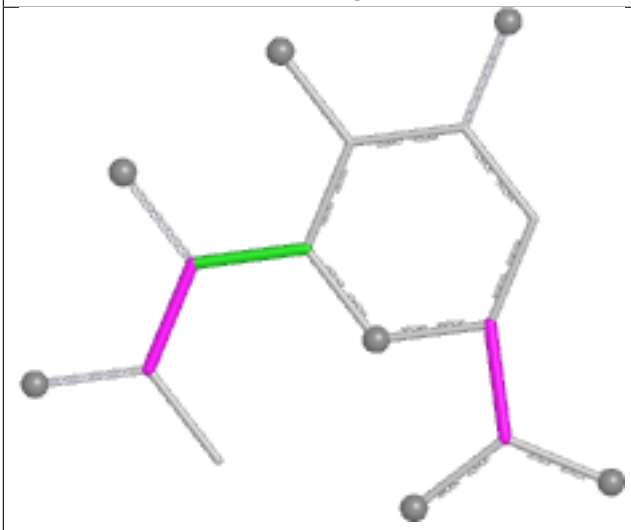
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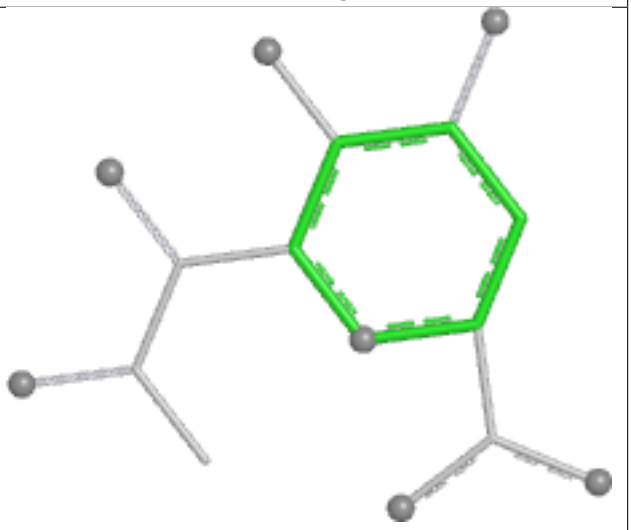
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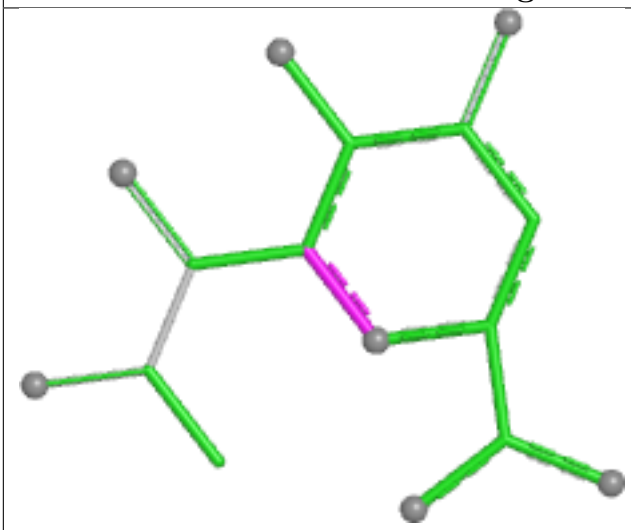


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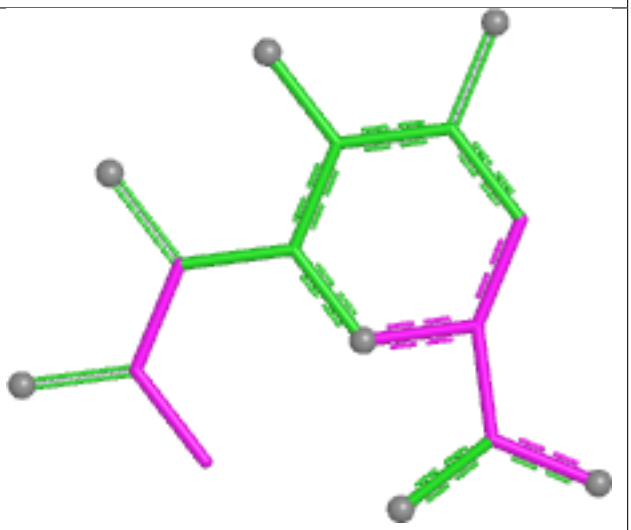


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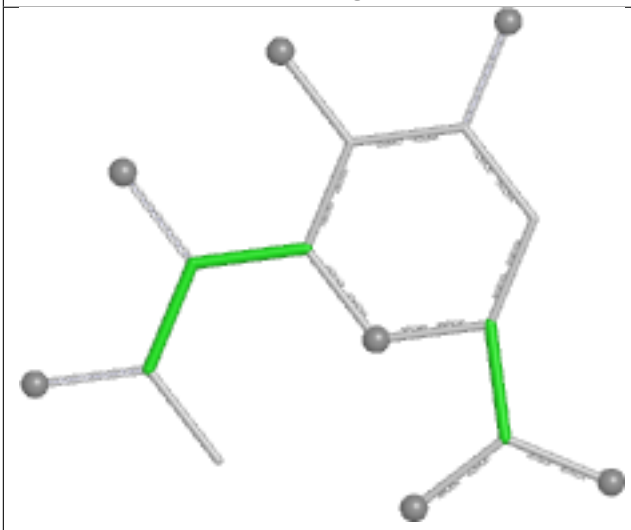
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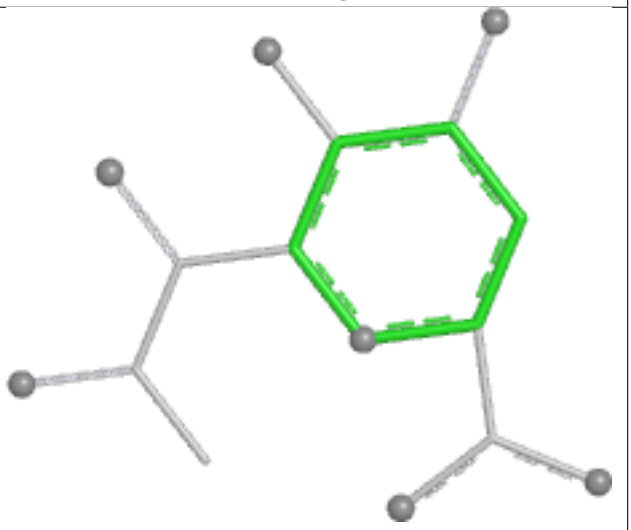
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Bond angles

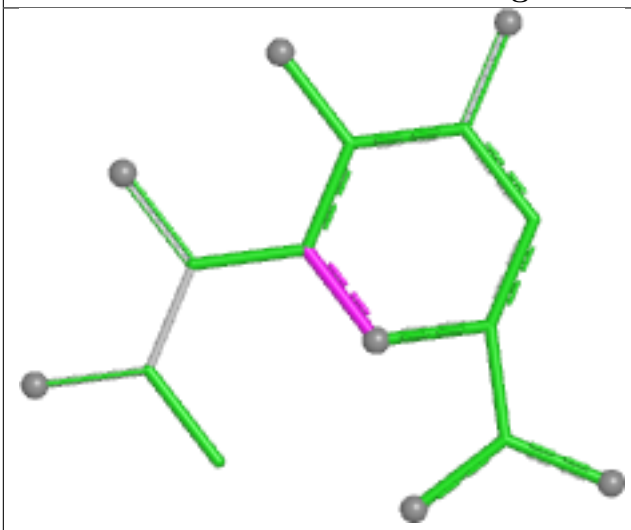


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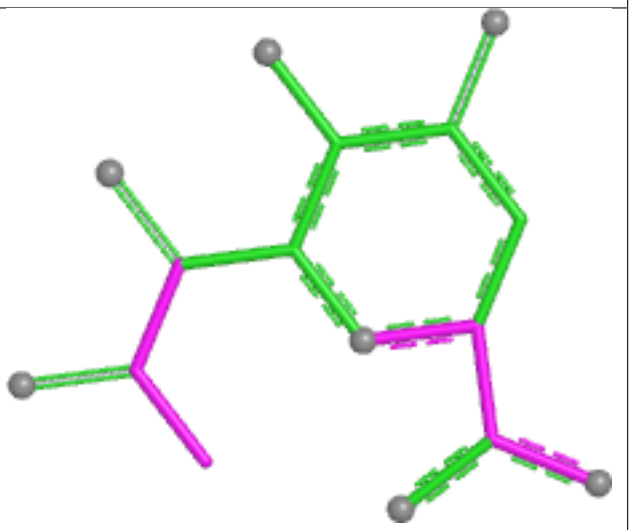


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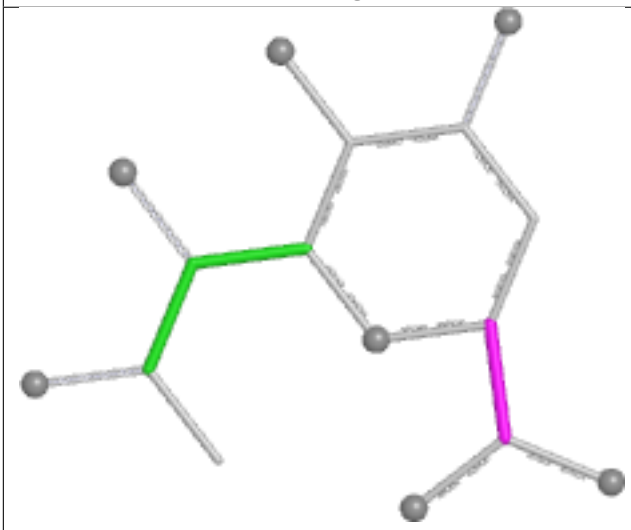
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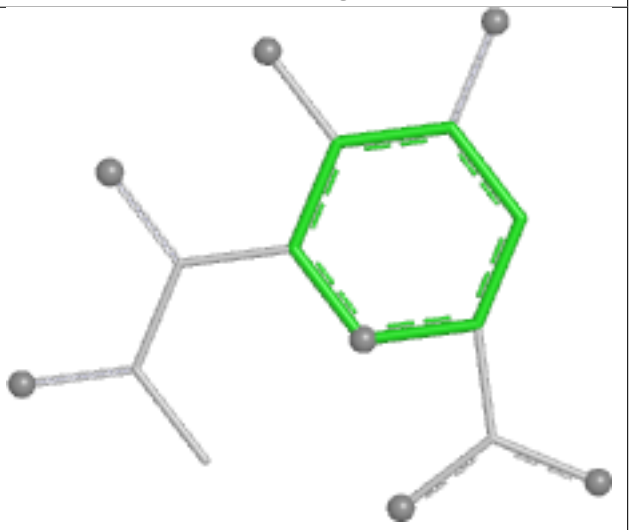
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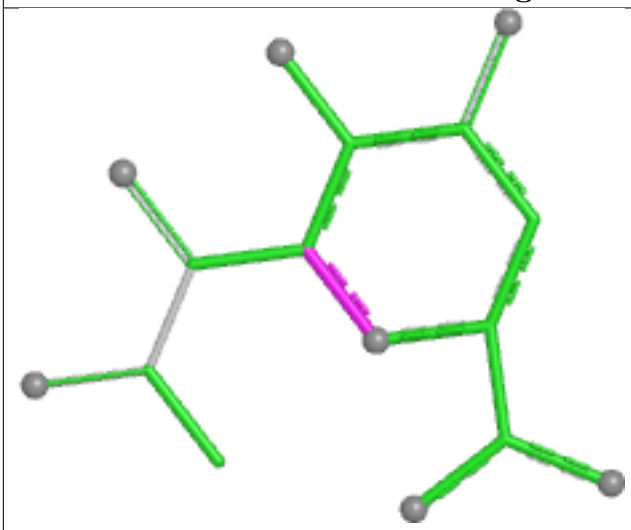


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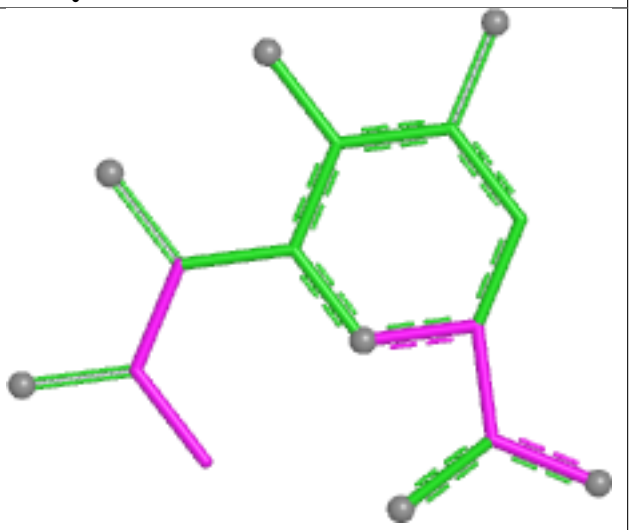


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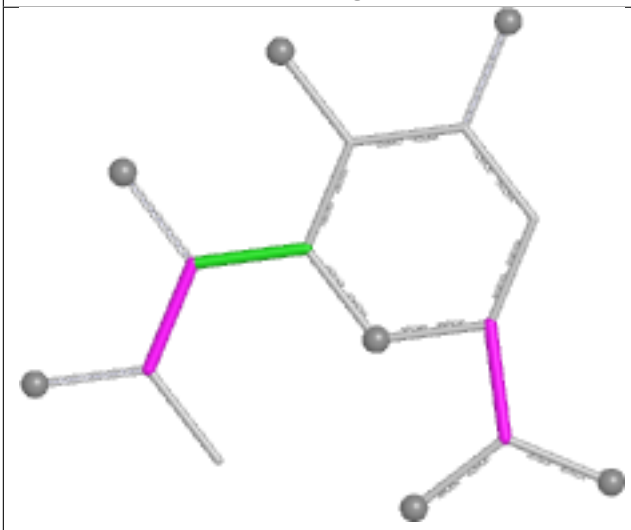
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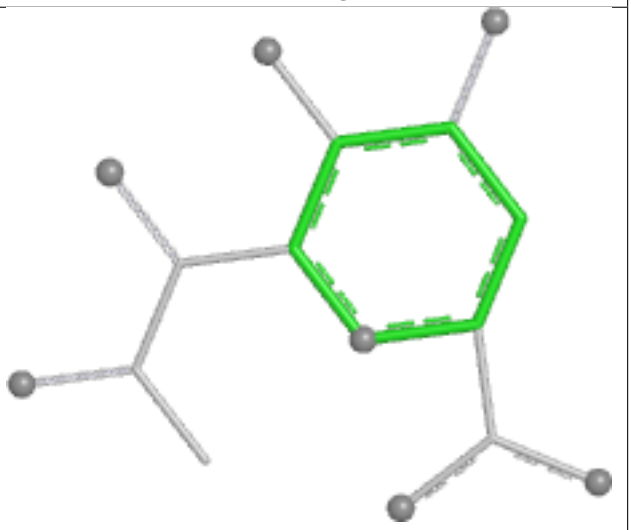
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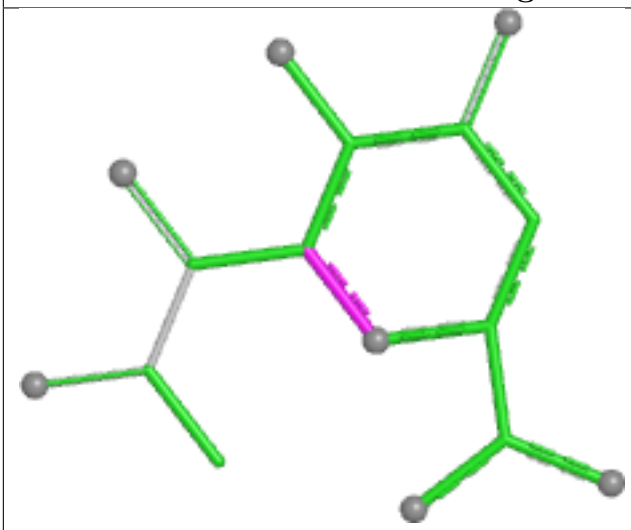


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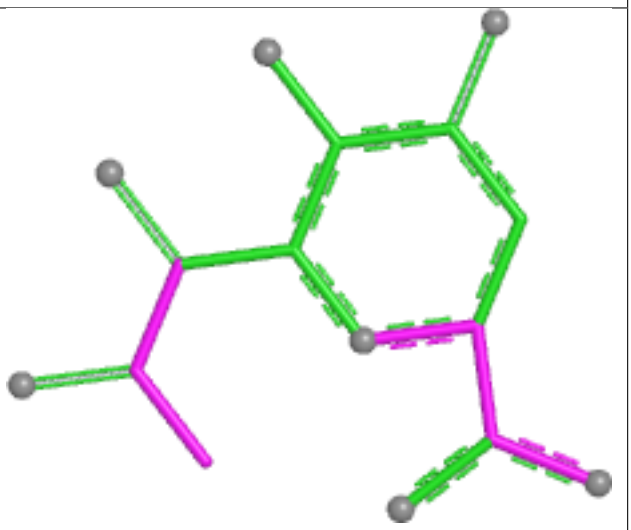


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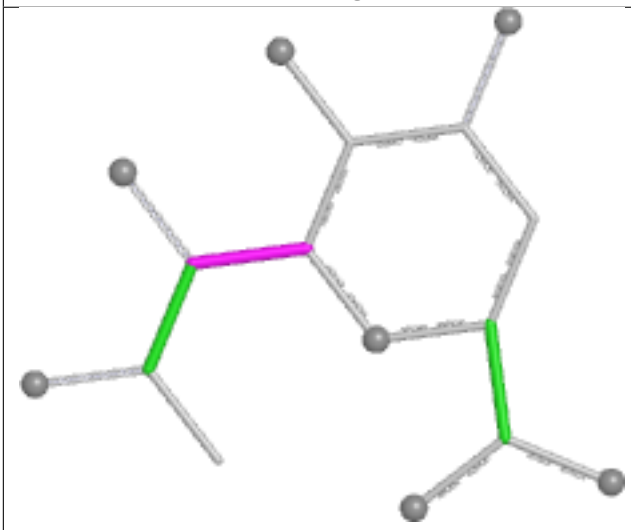
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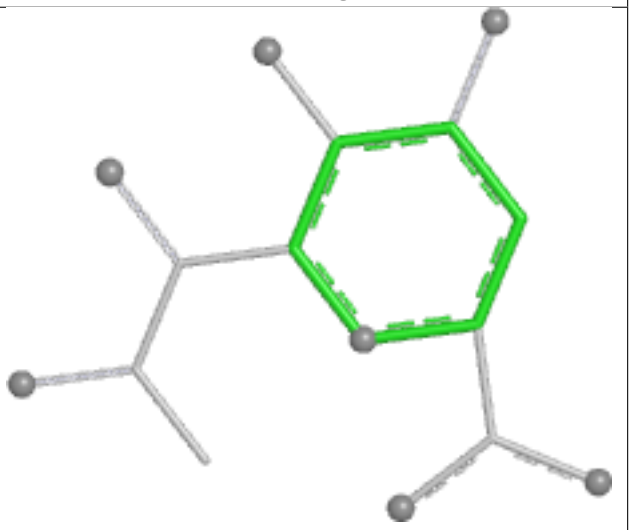
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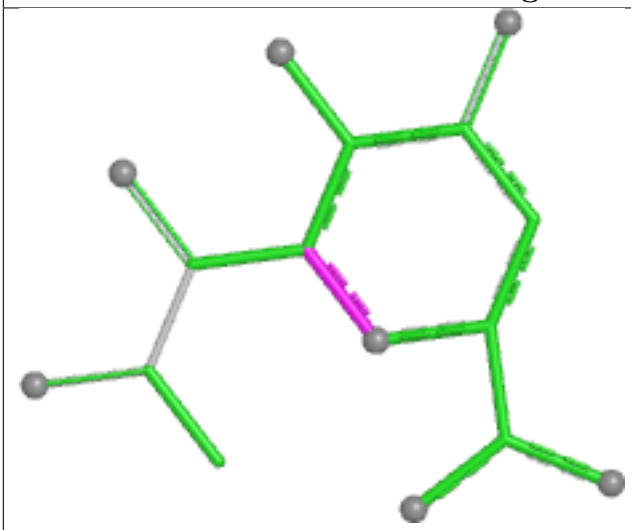


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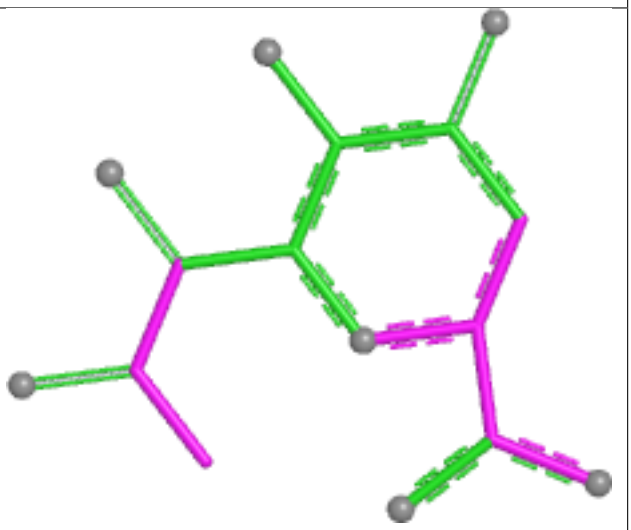


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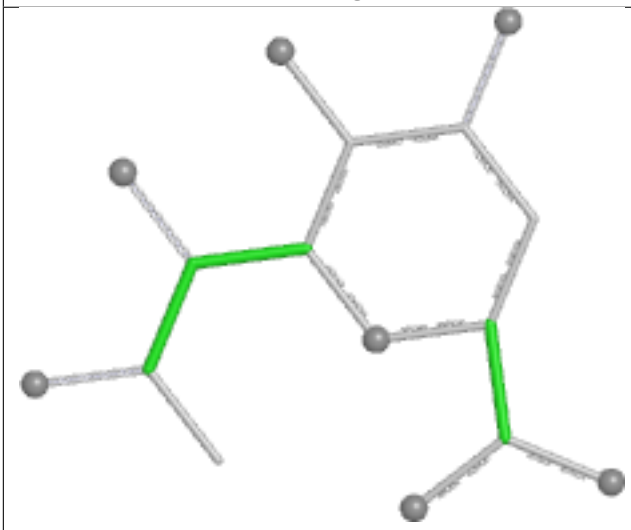
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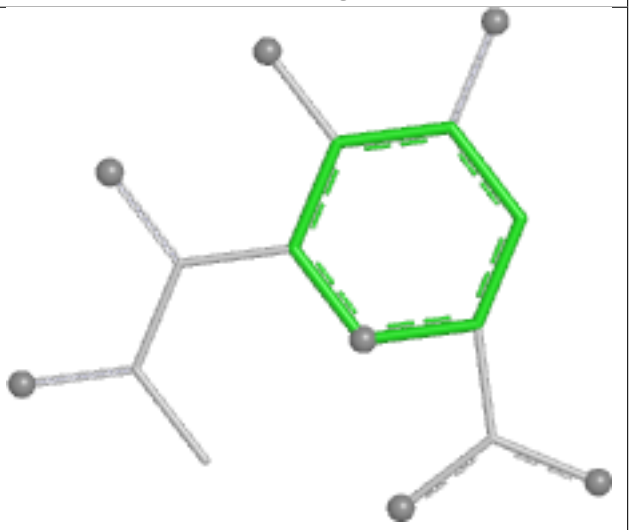
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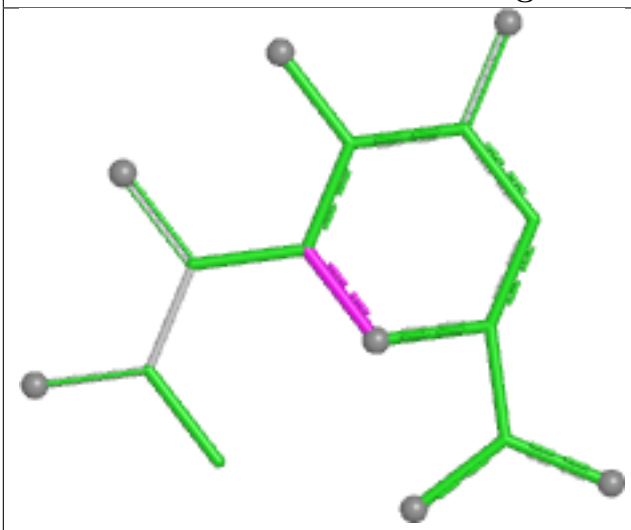


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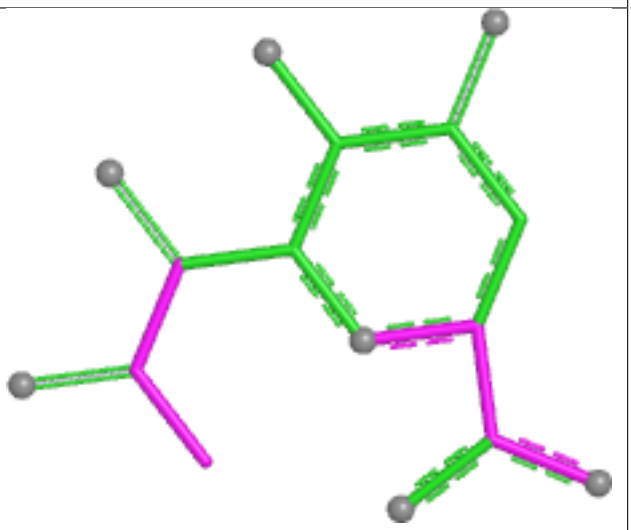


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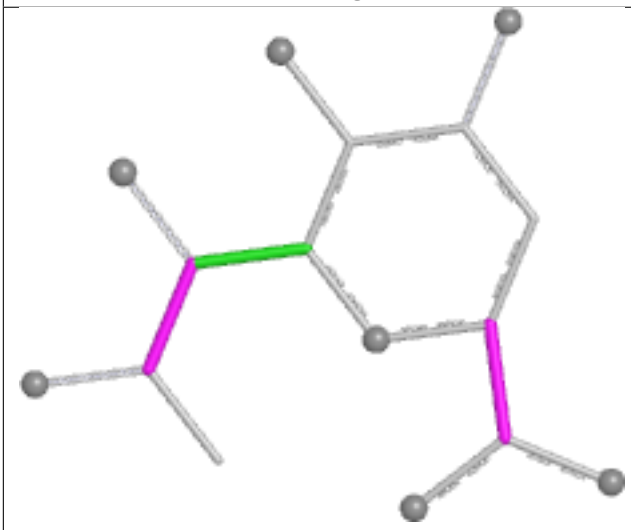
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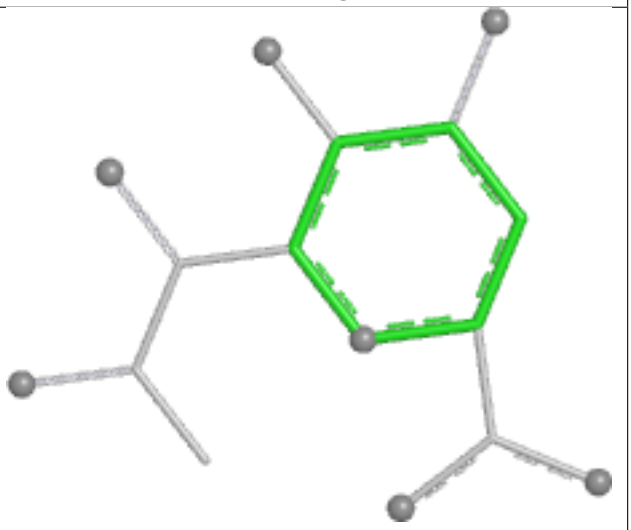
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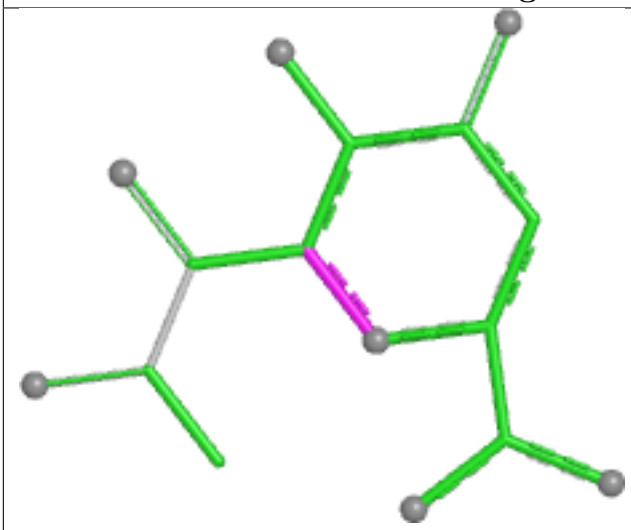


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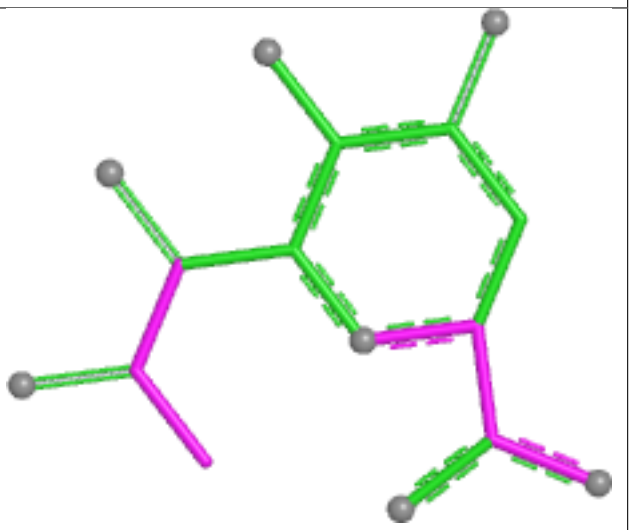


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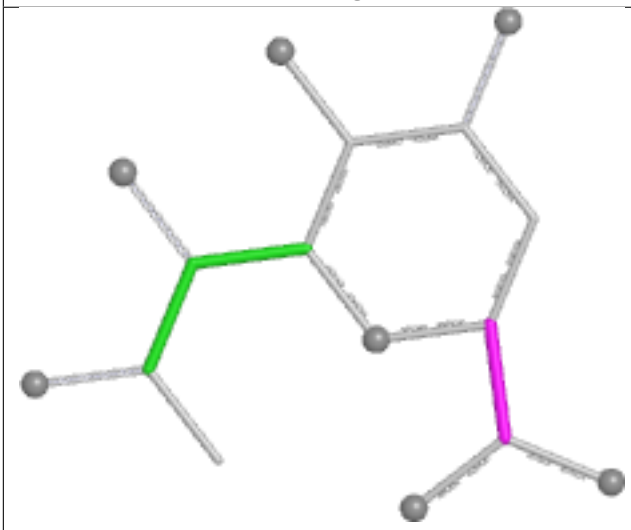
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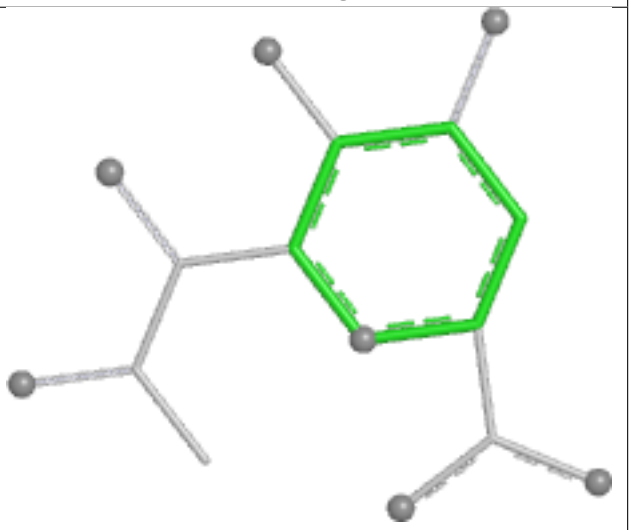
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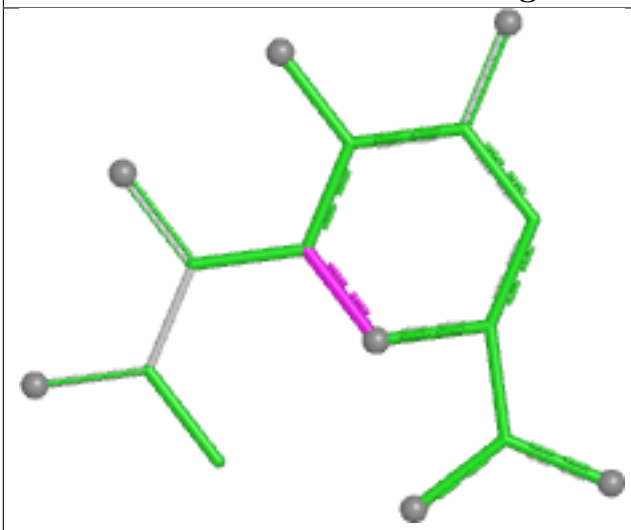


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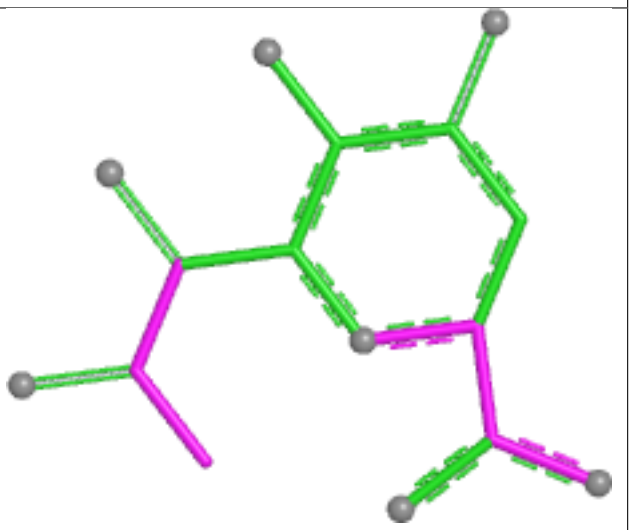


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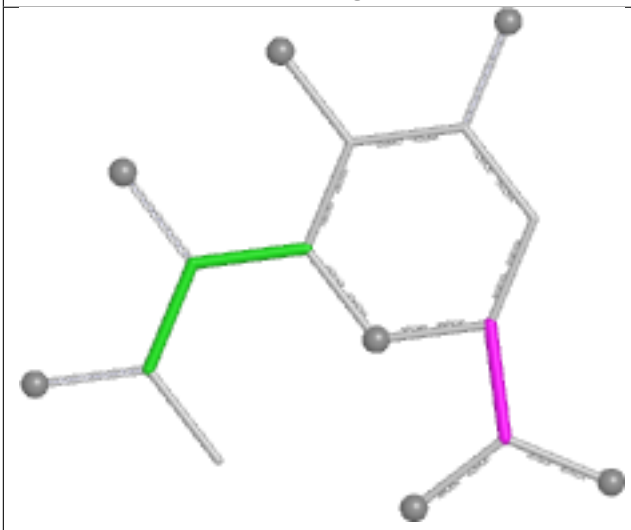
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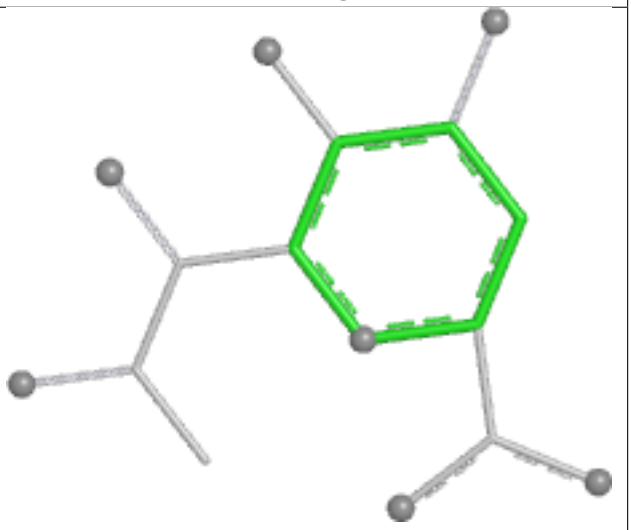
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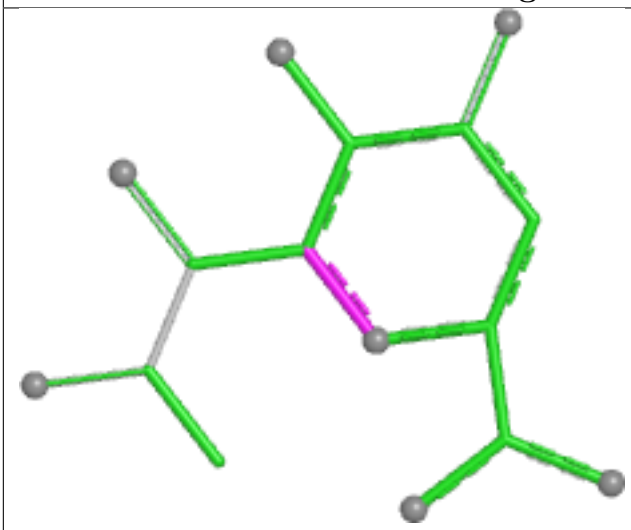


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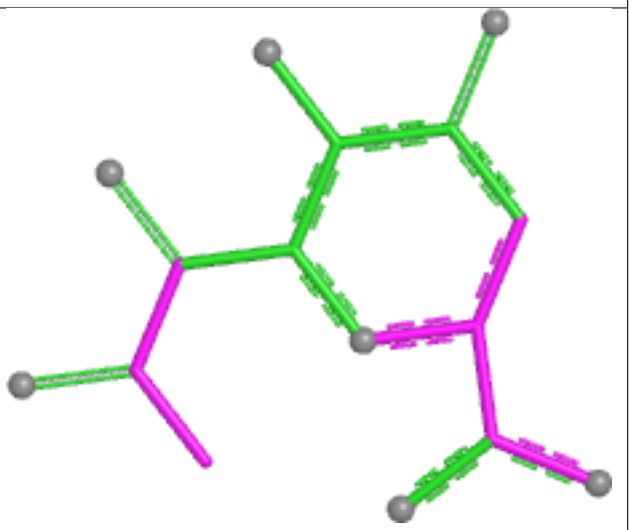


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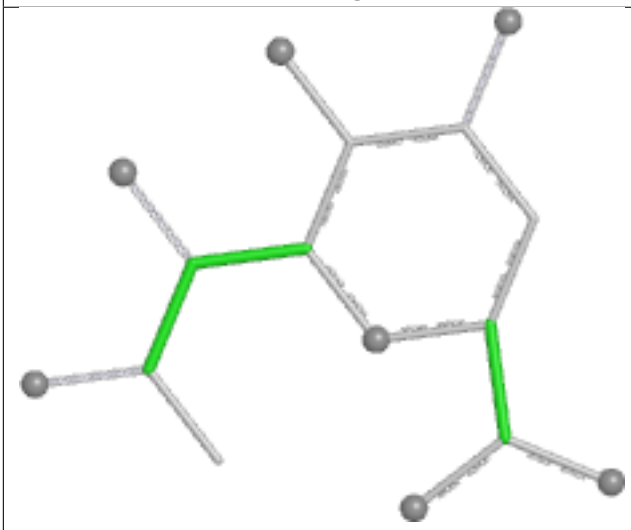
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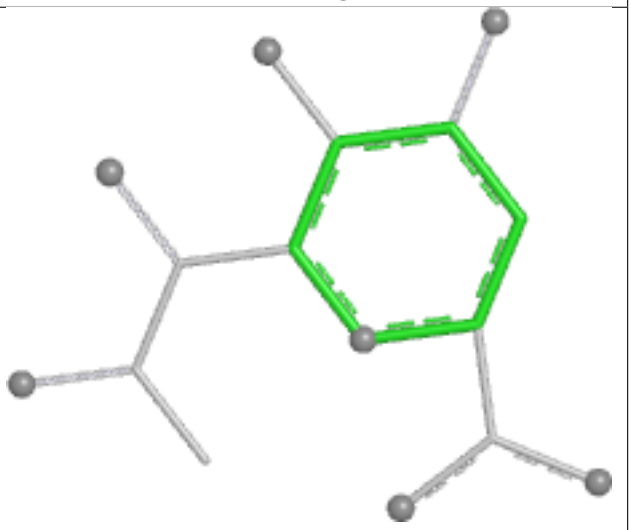
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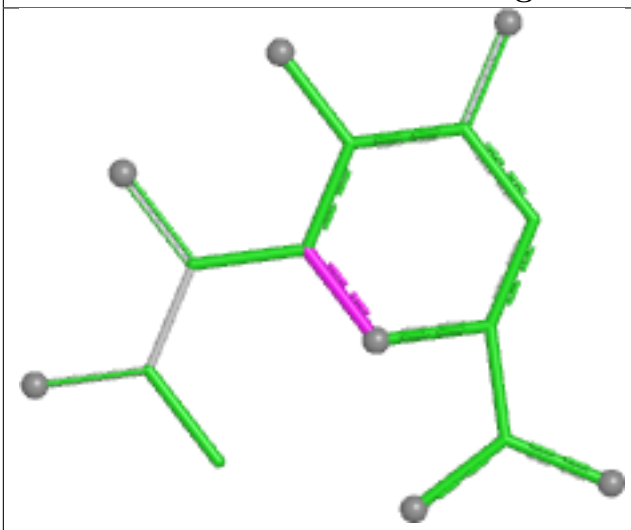


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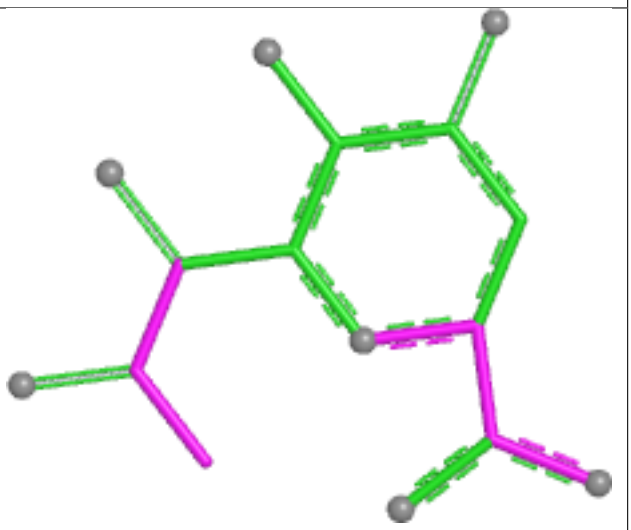


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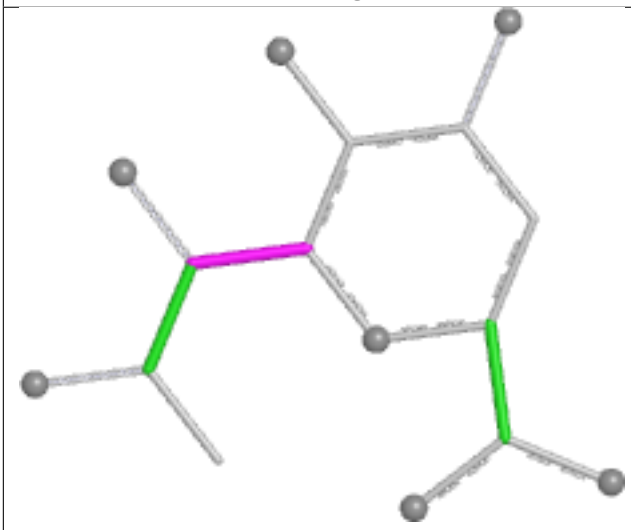
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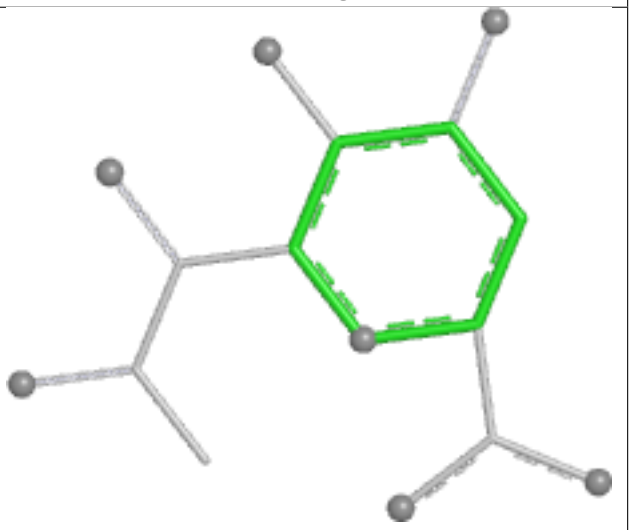
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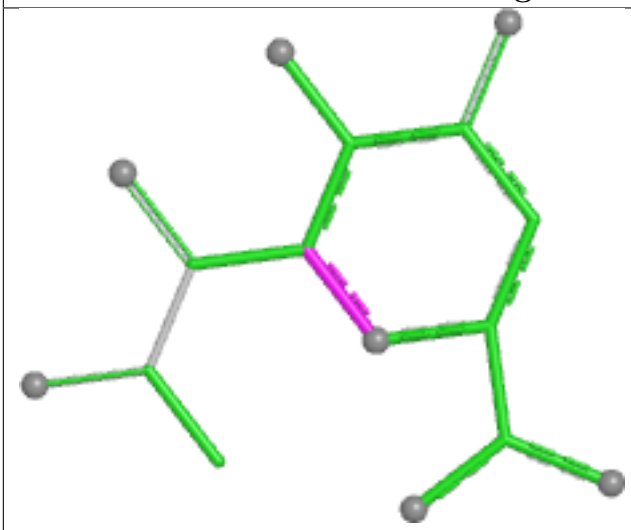


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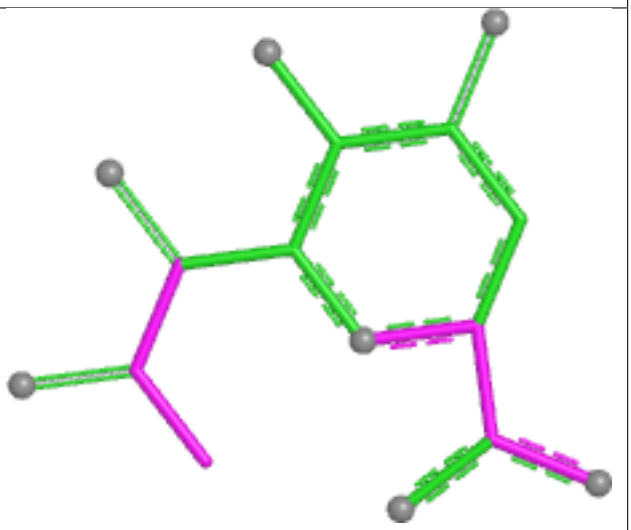


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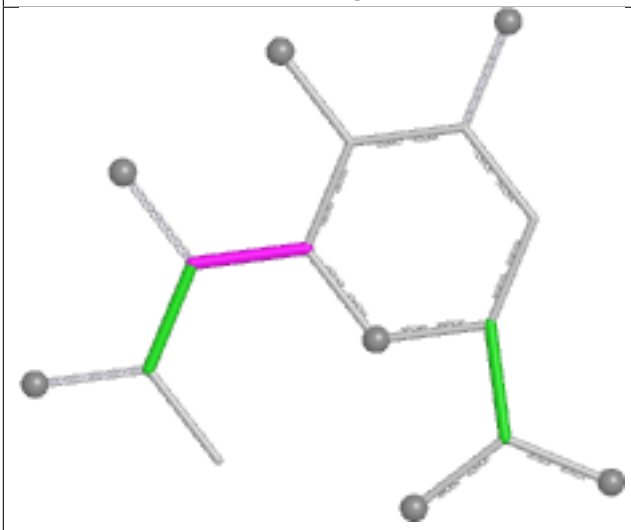
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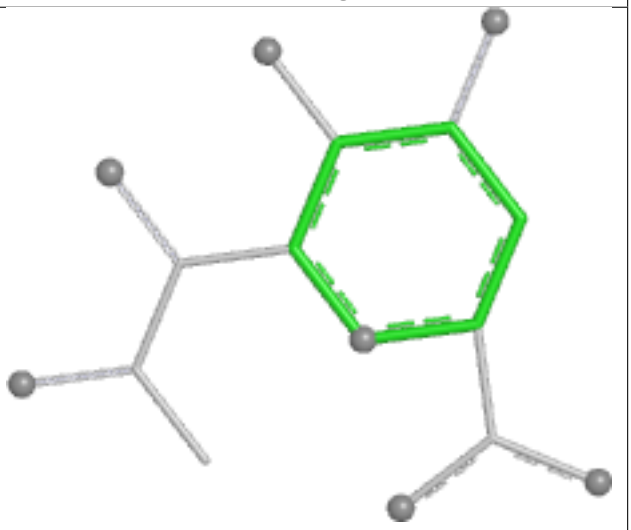
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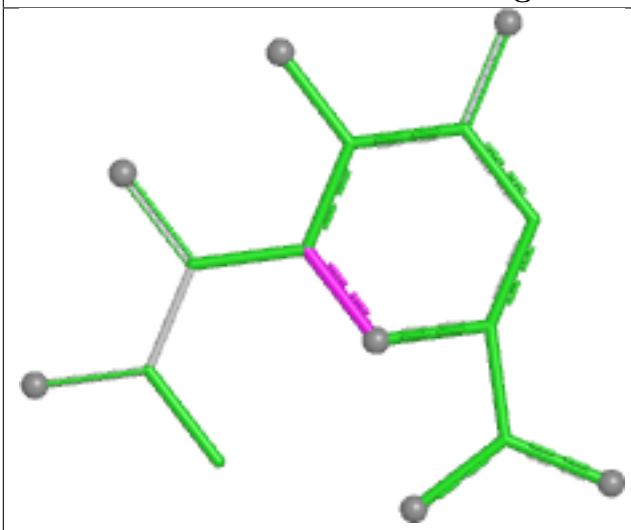


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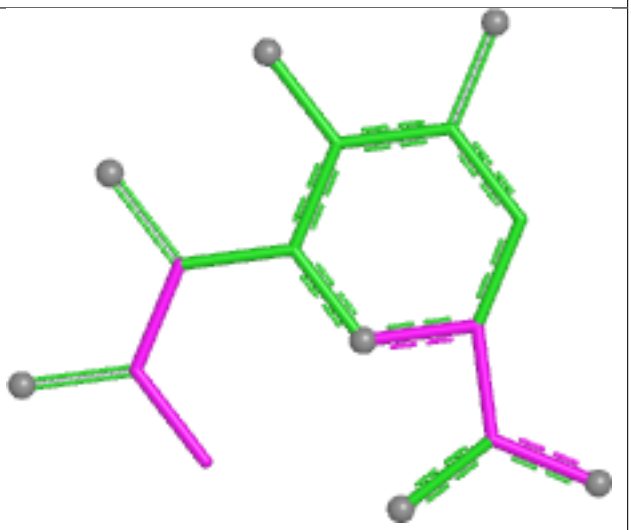


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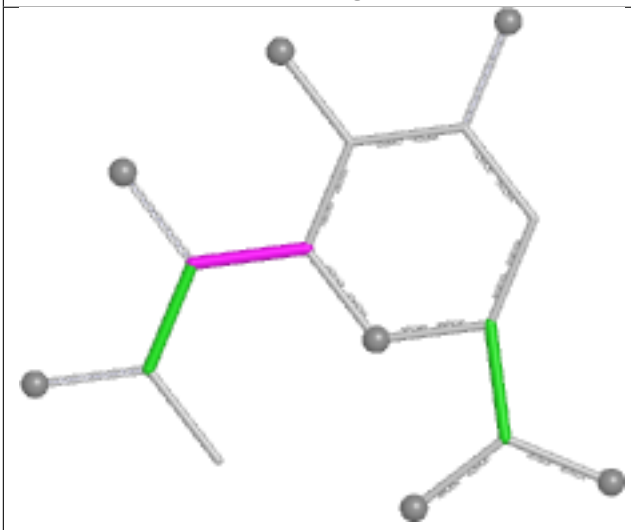
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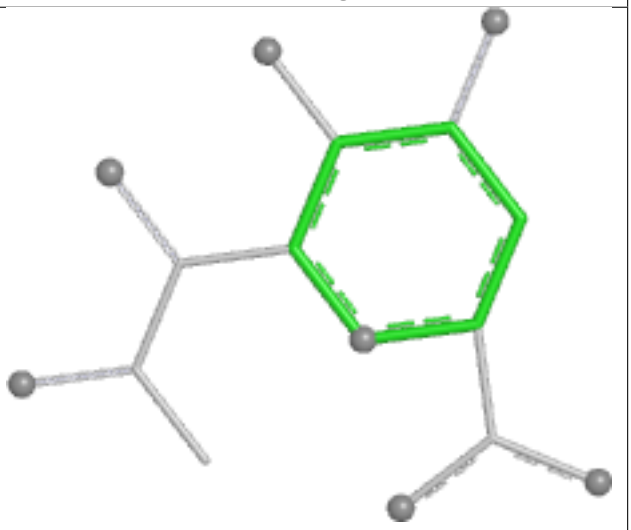
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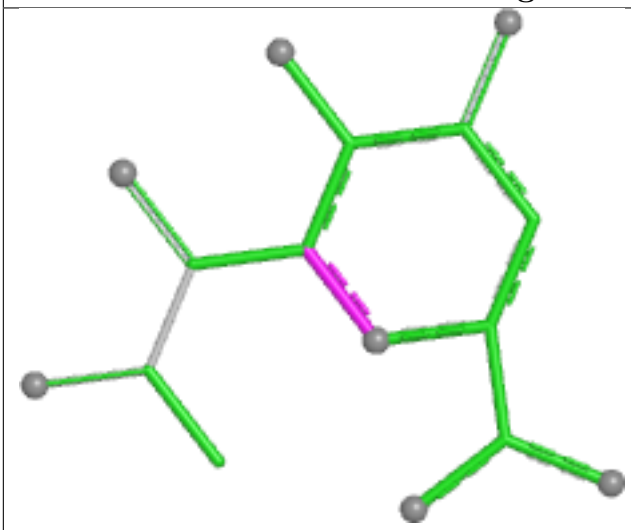


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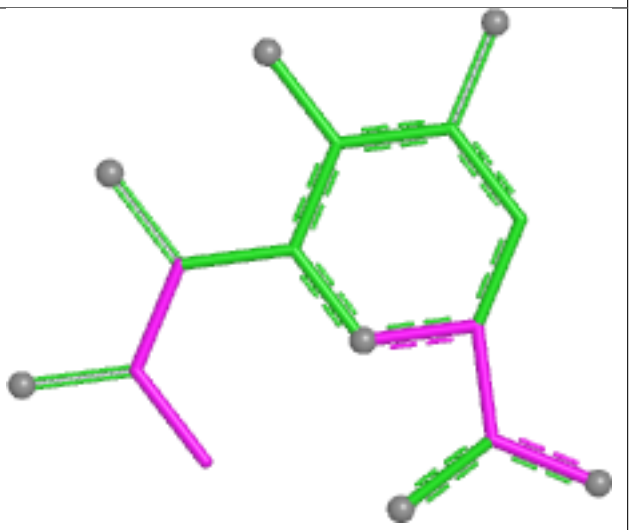


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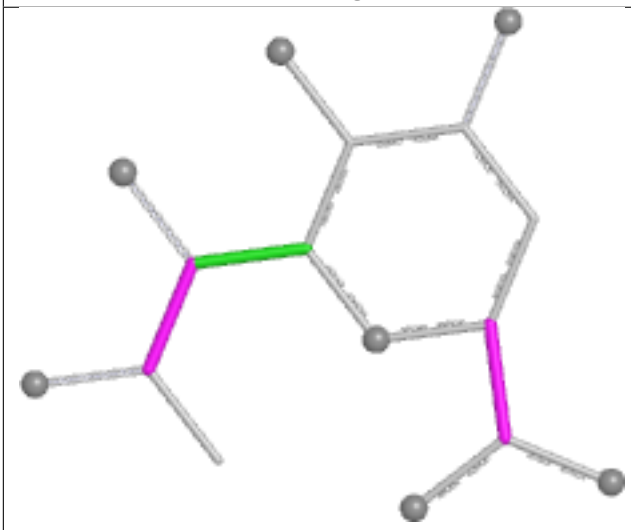
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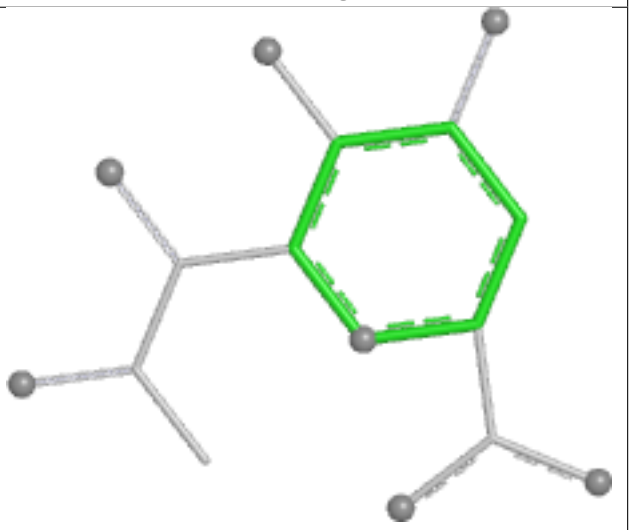
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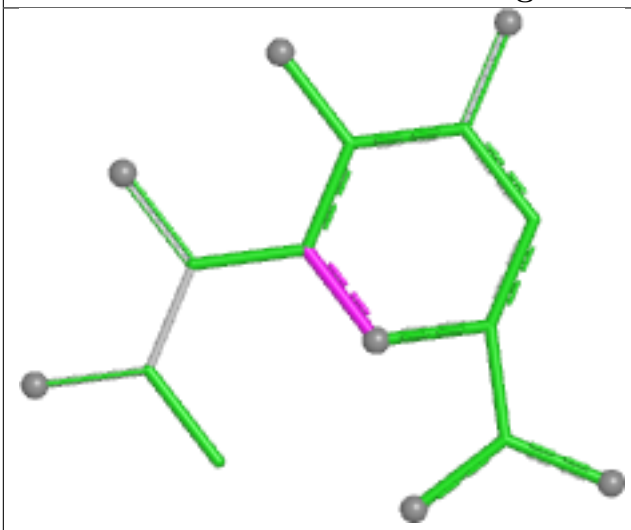


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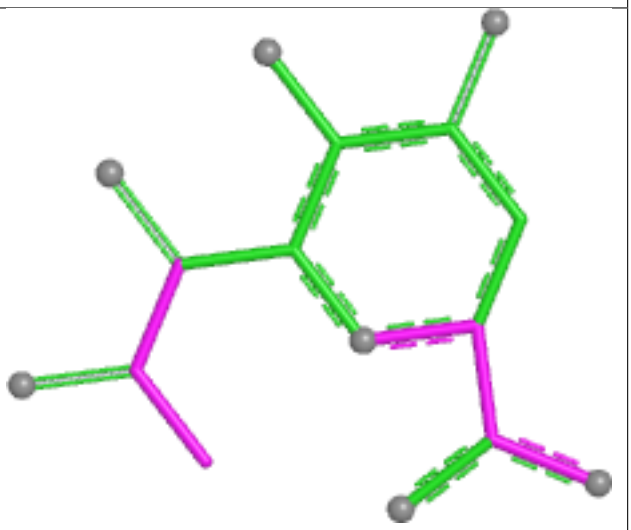


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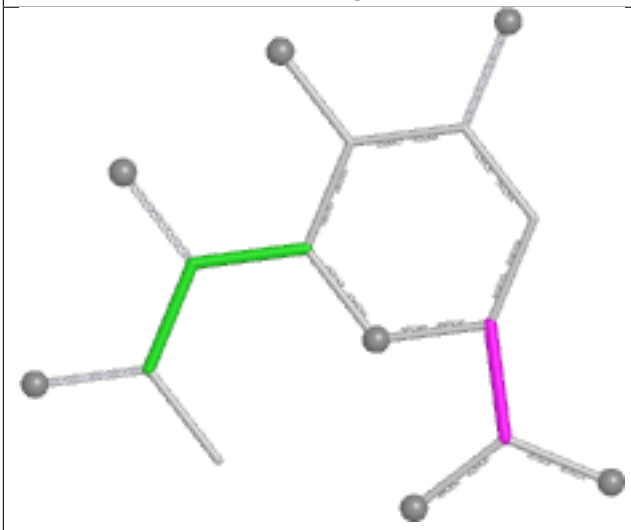
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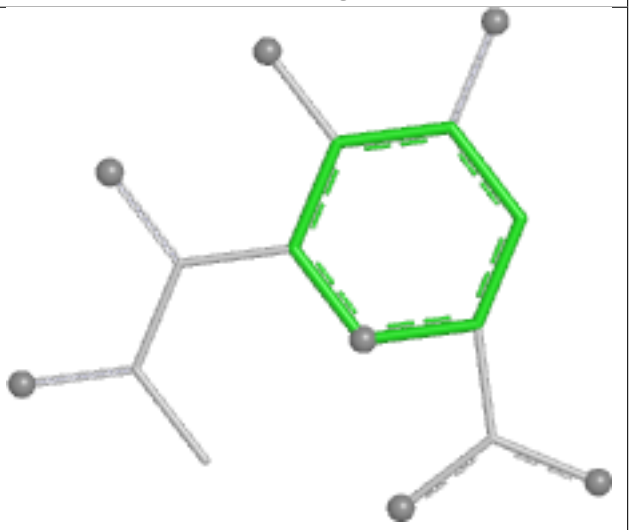
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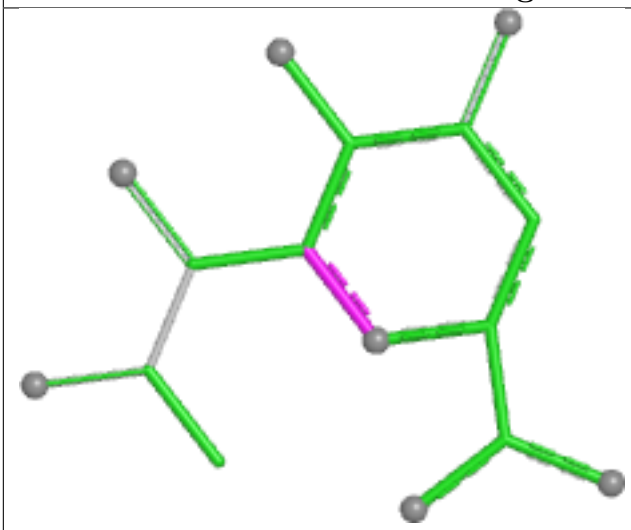


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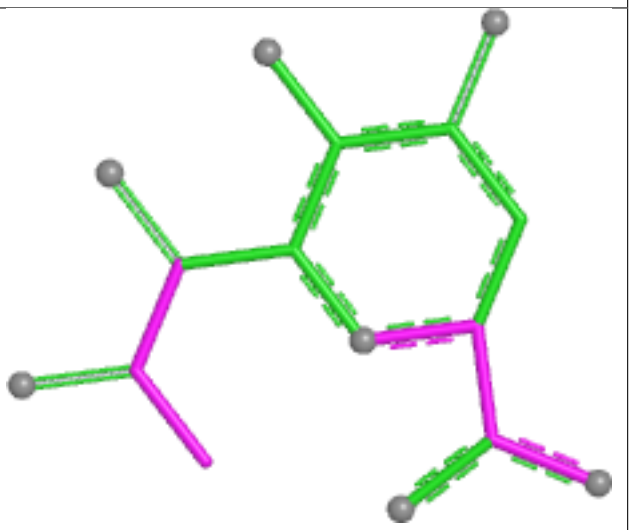


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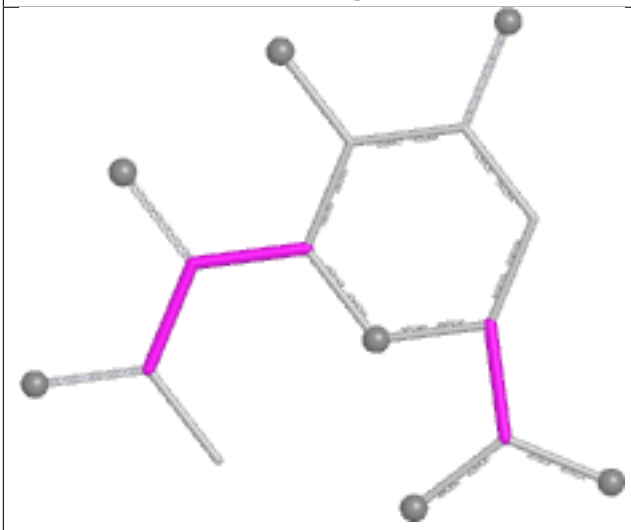
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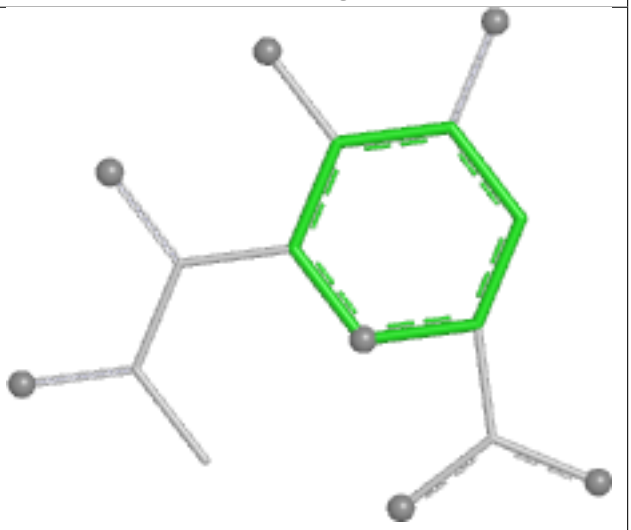
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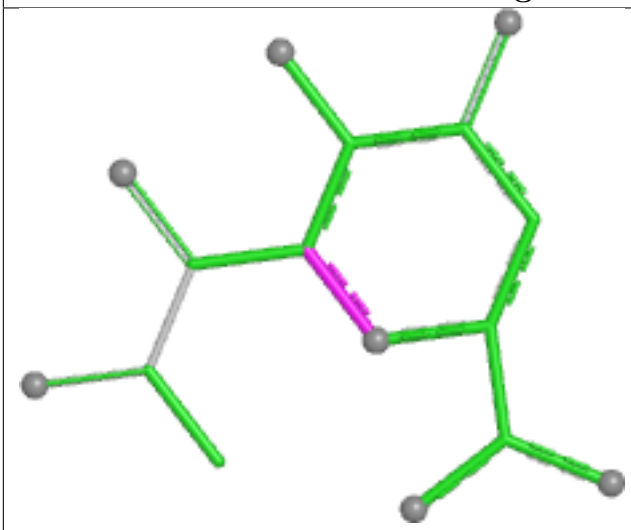


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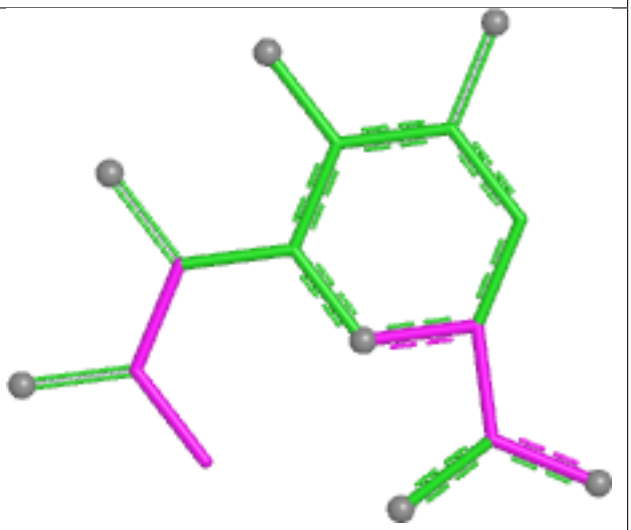


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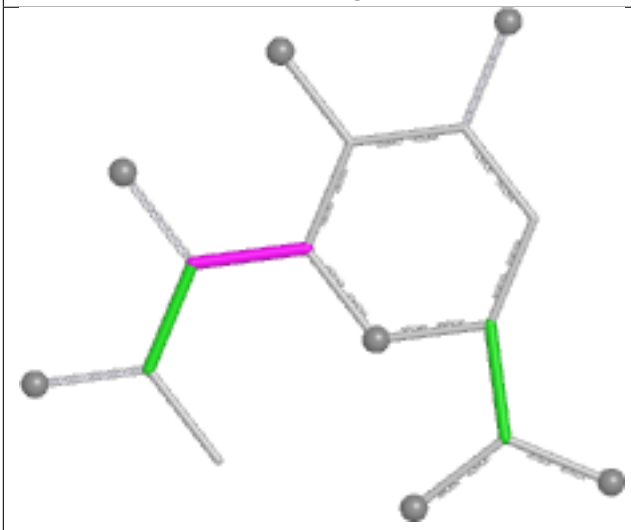
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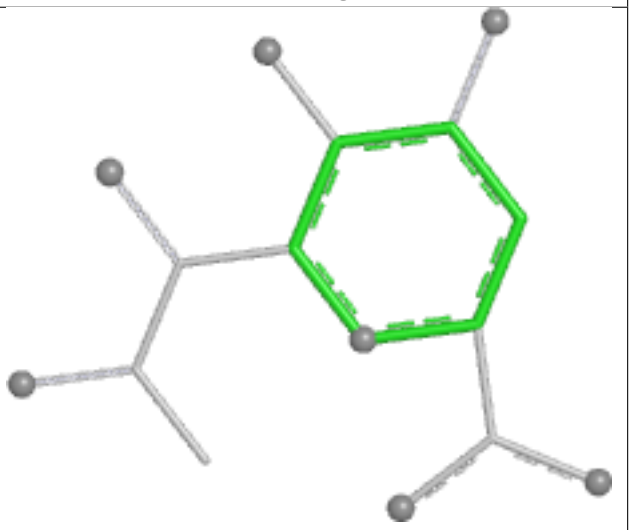
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Bond angles

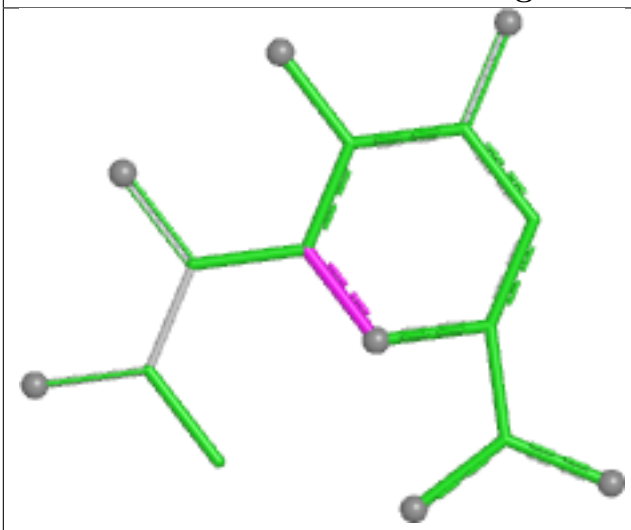


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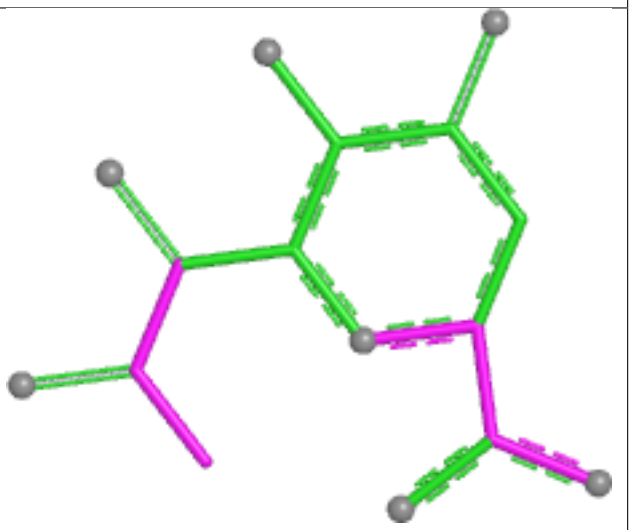


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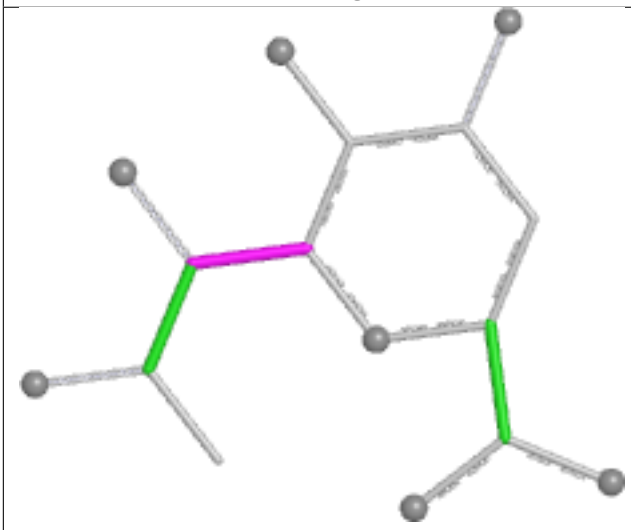
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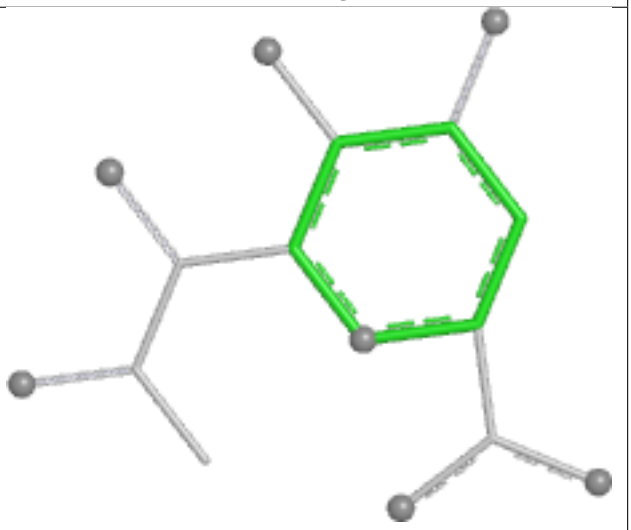
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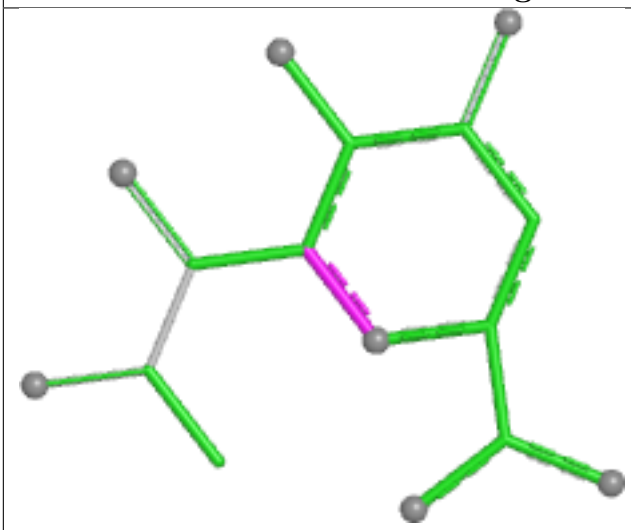


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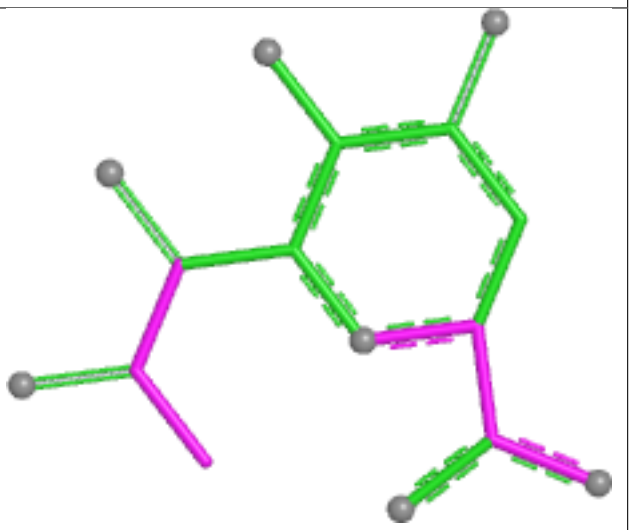


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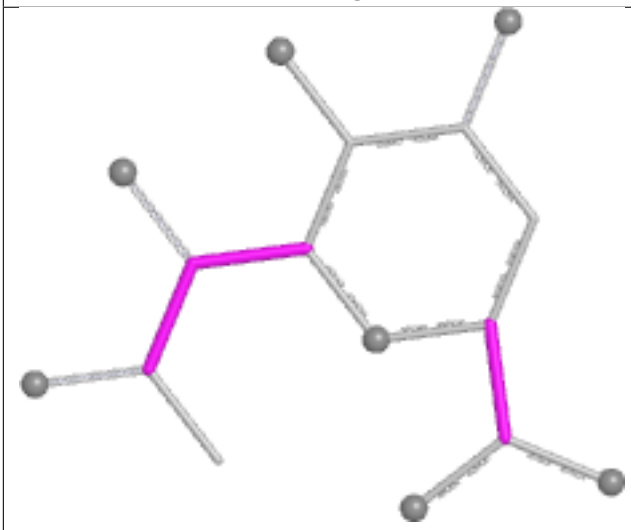
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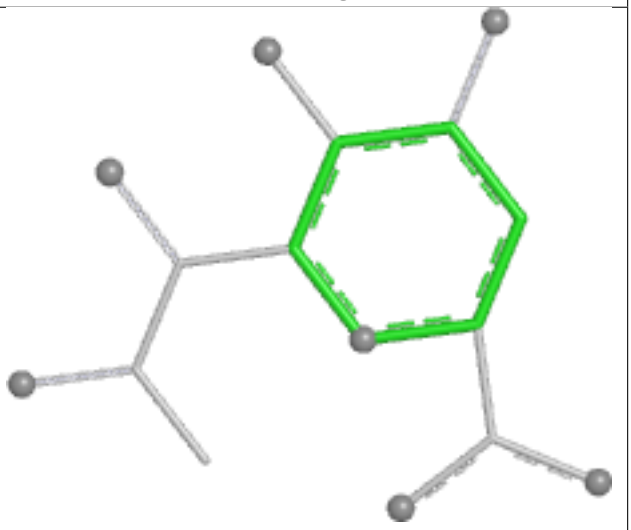
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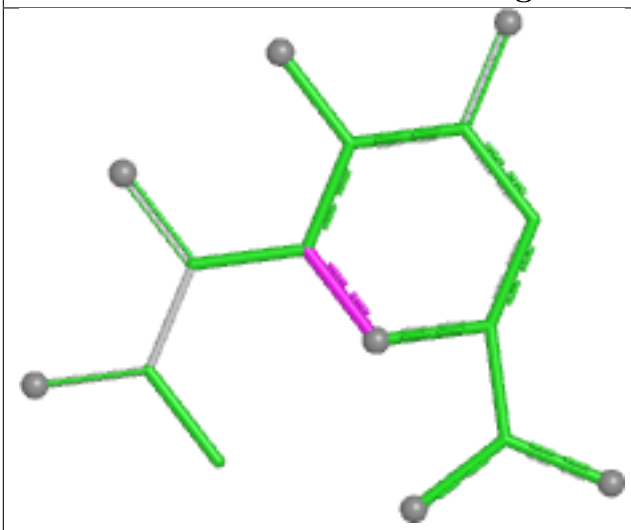


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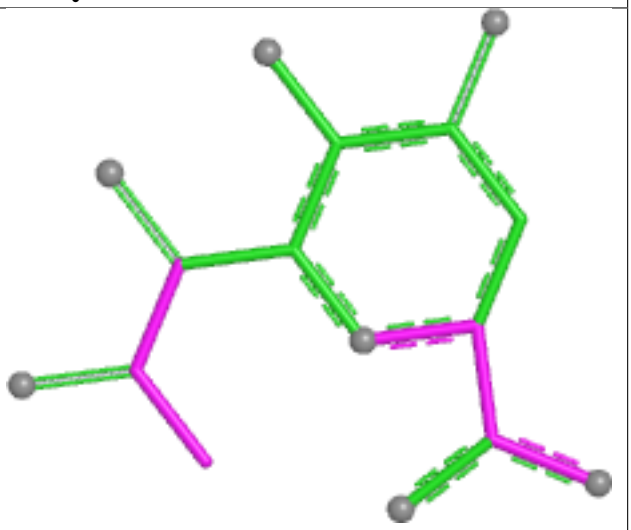


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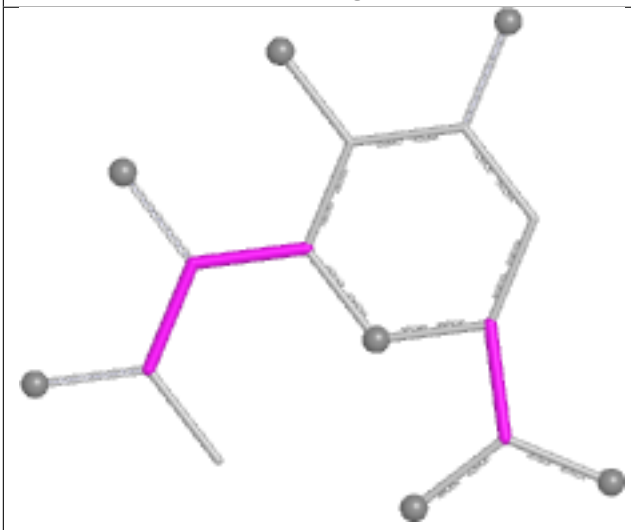
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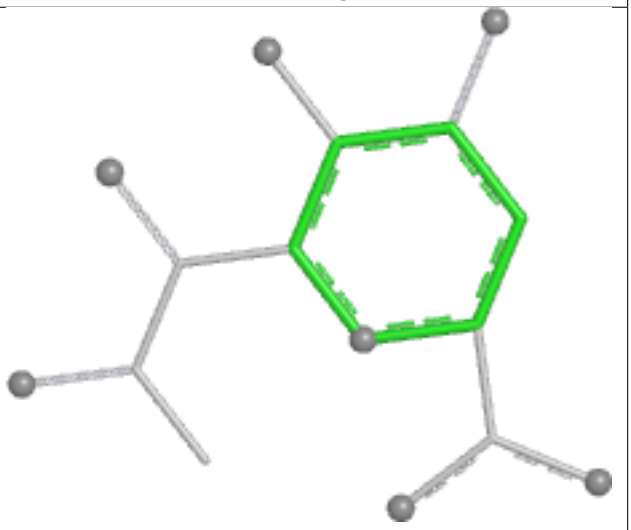
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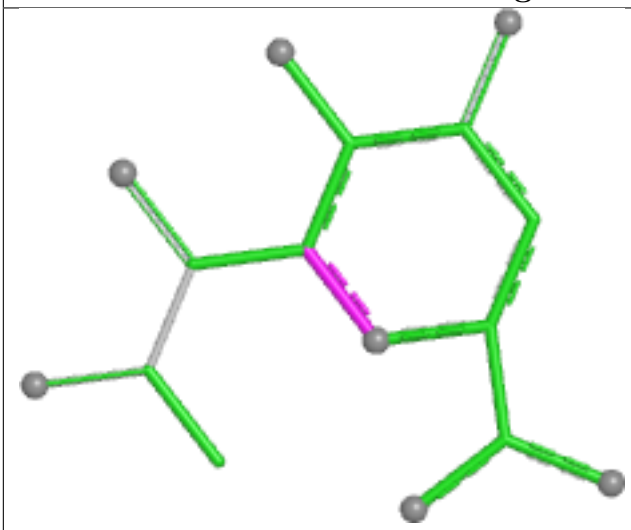


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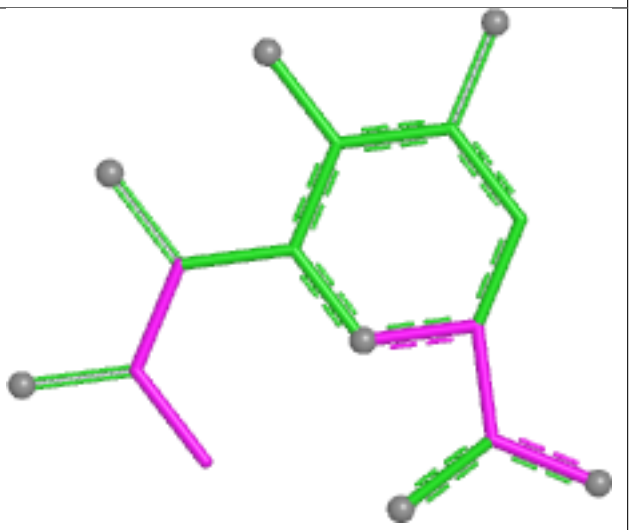


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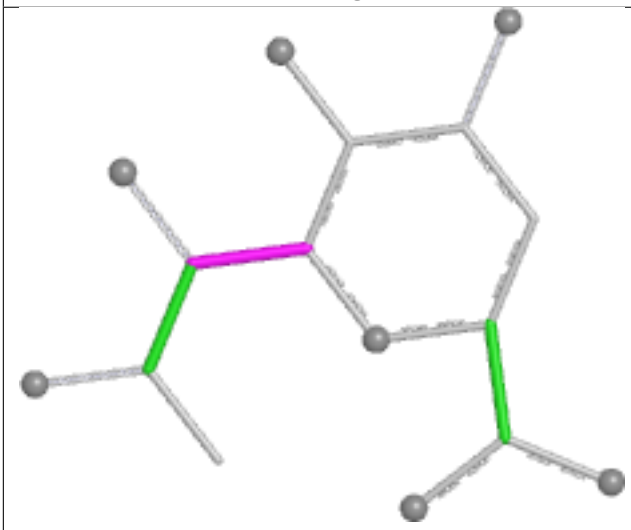
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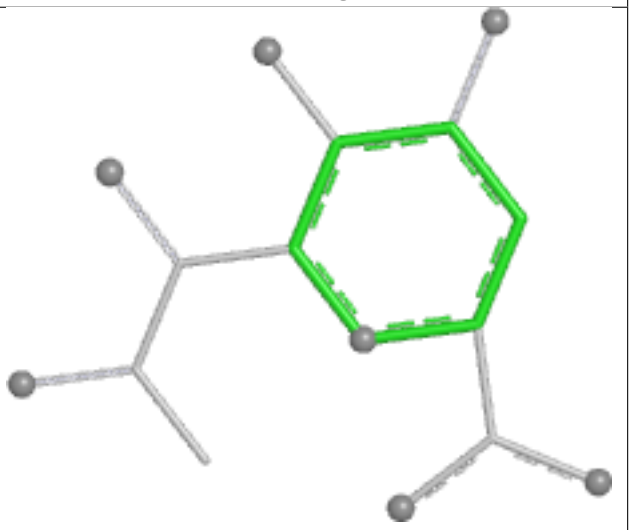
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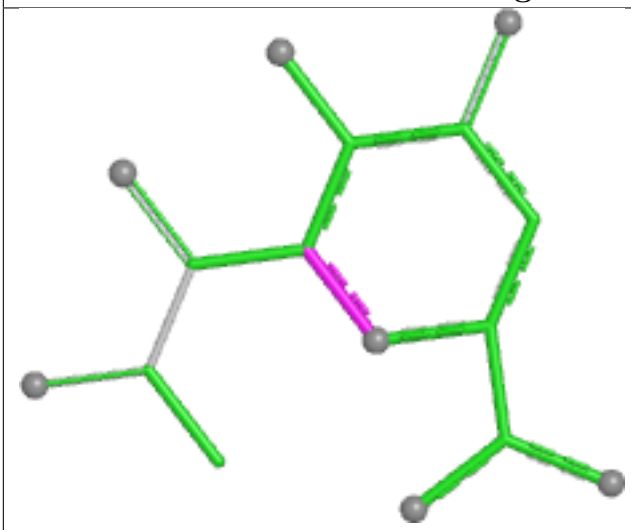


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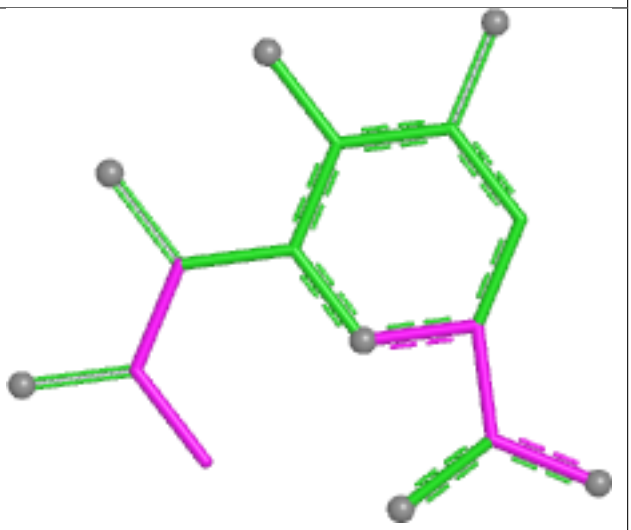


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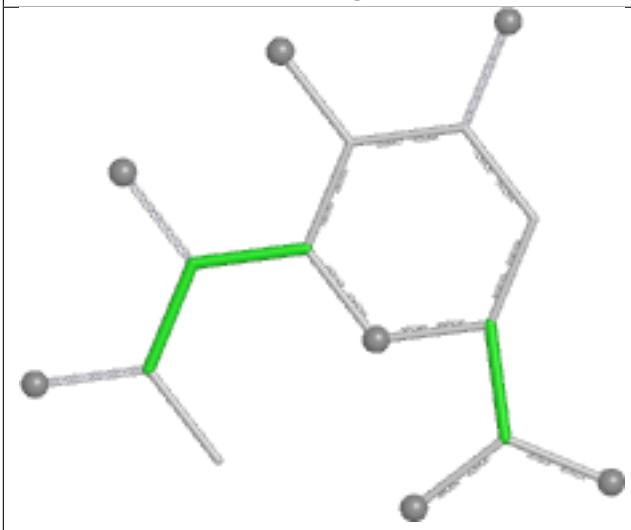
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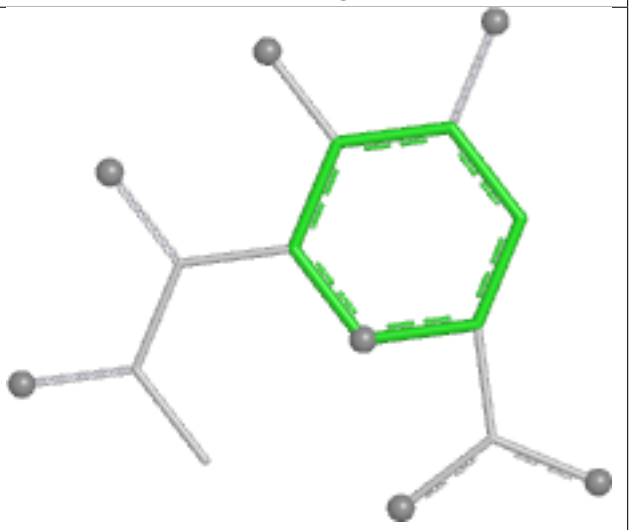
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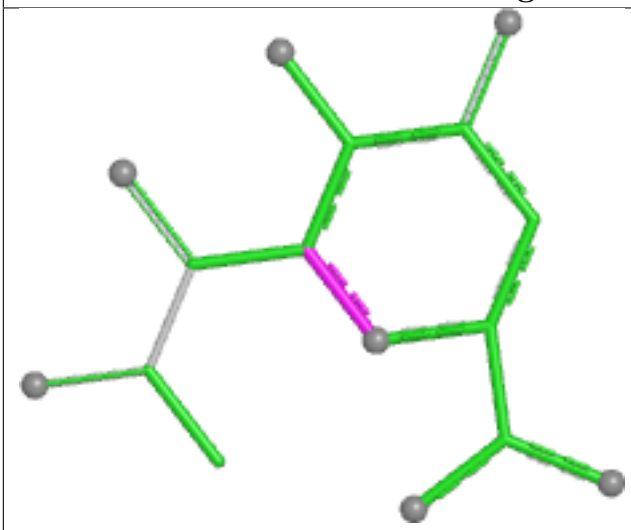


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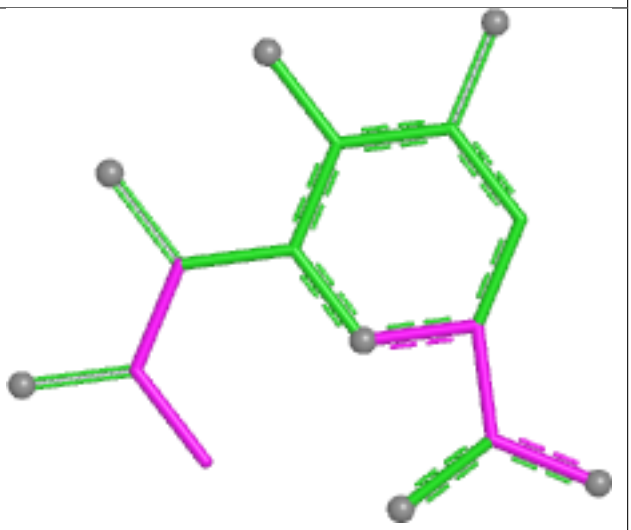


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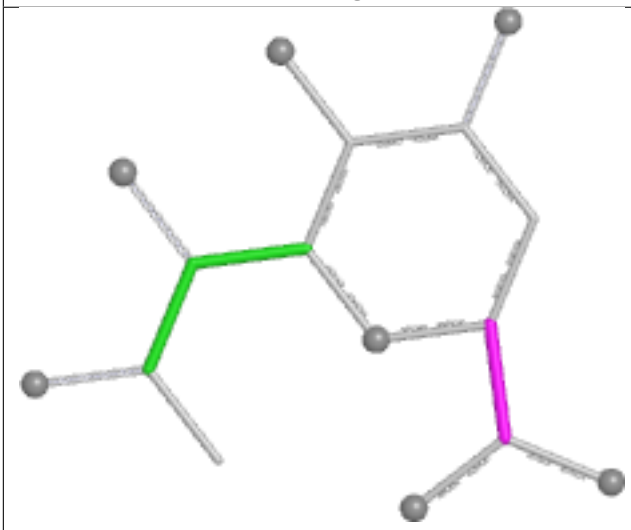
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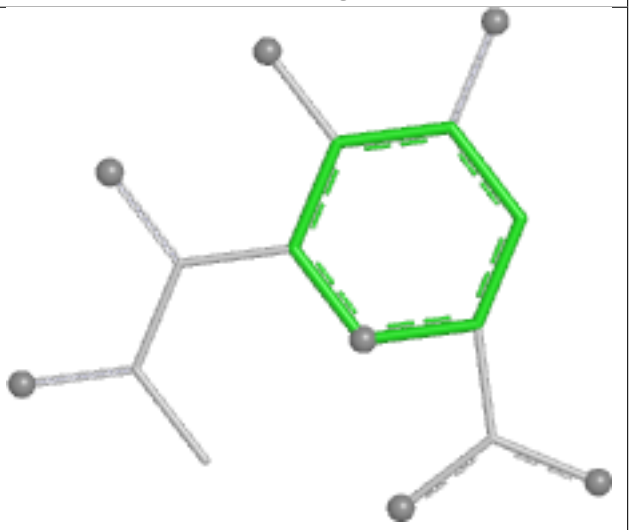
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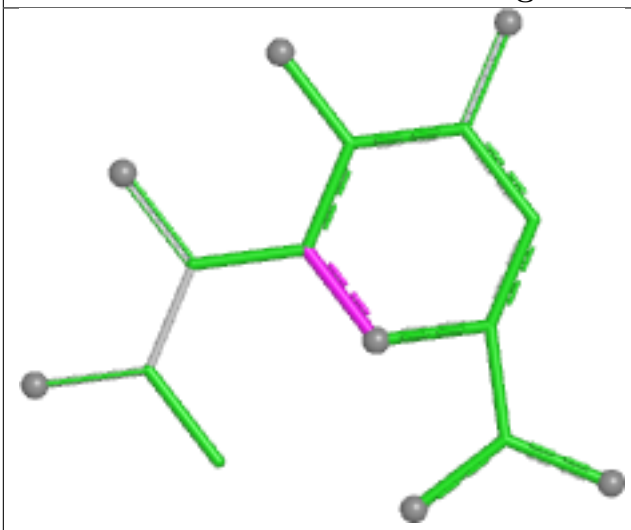


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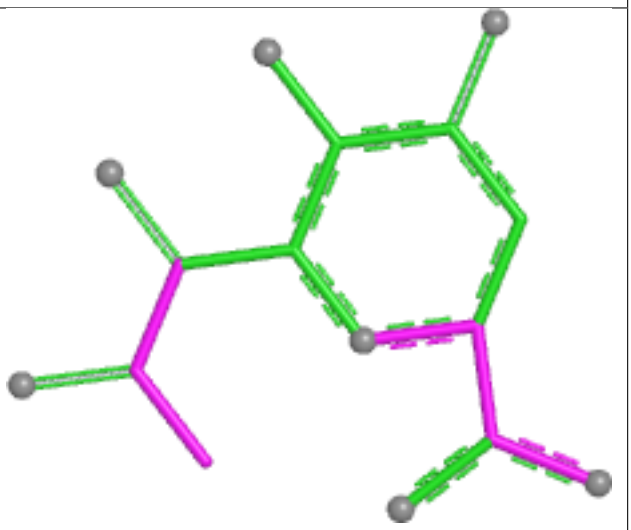


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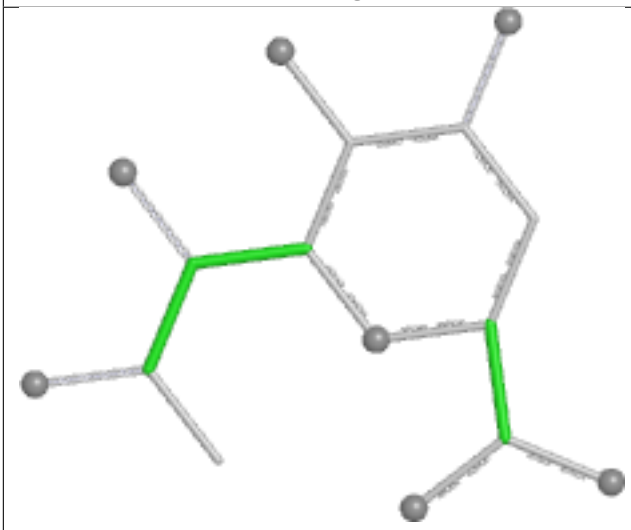
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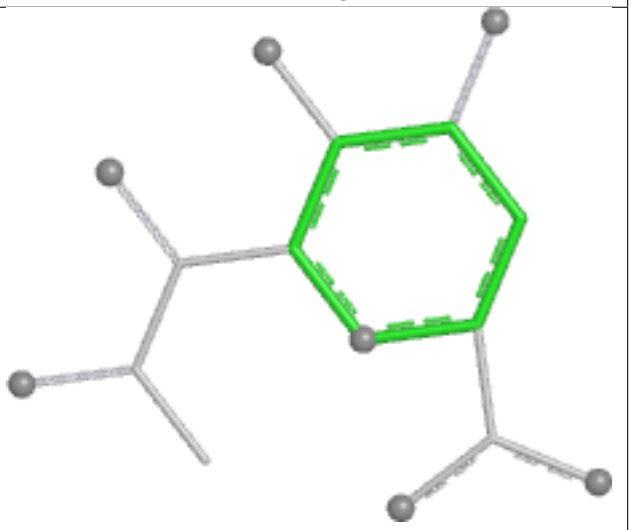
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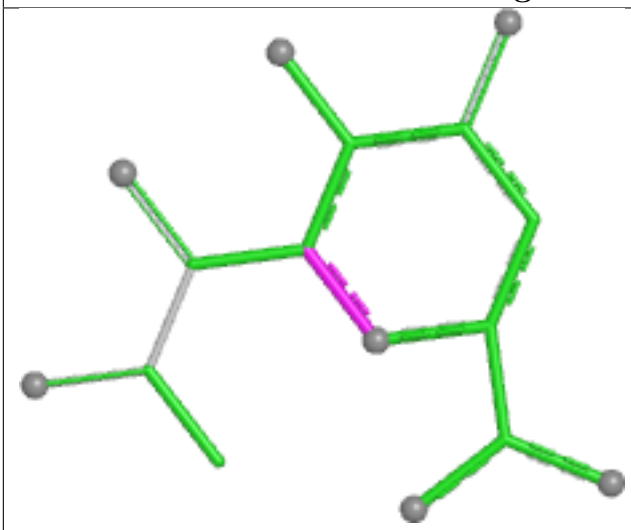


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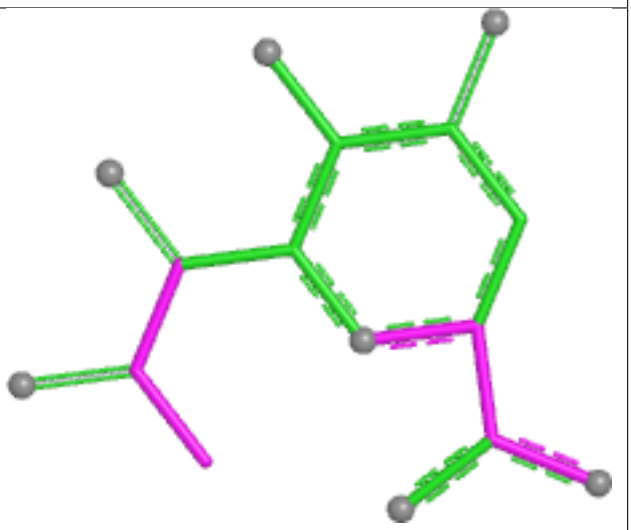


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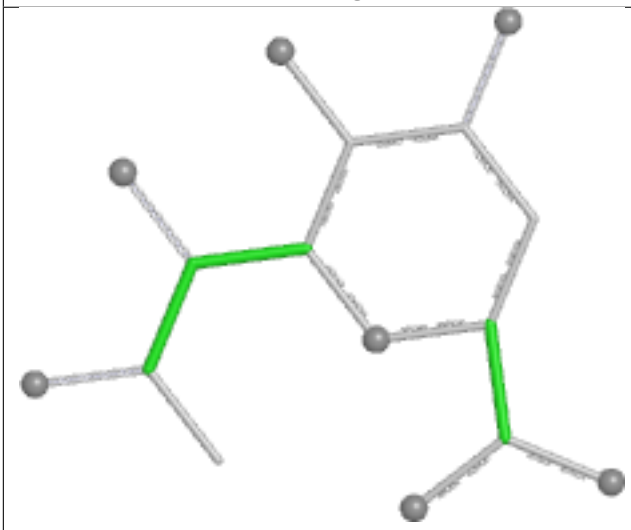
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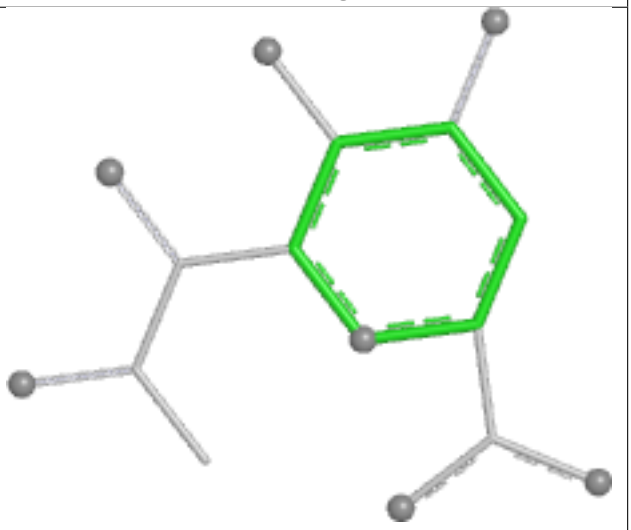
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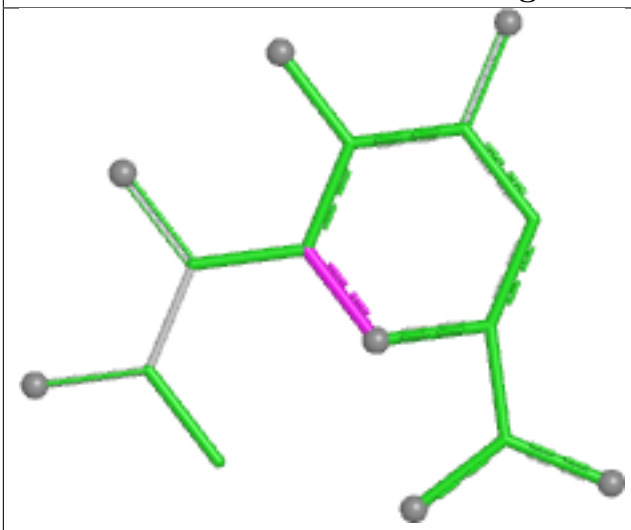


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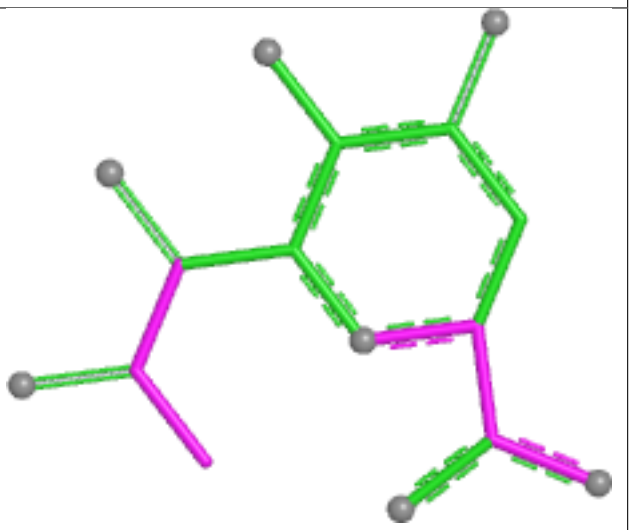


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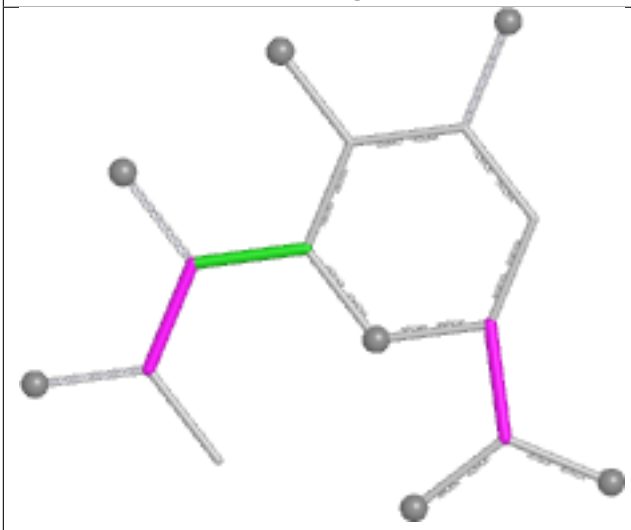
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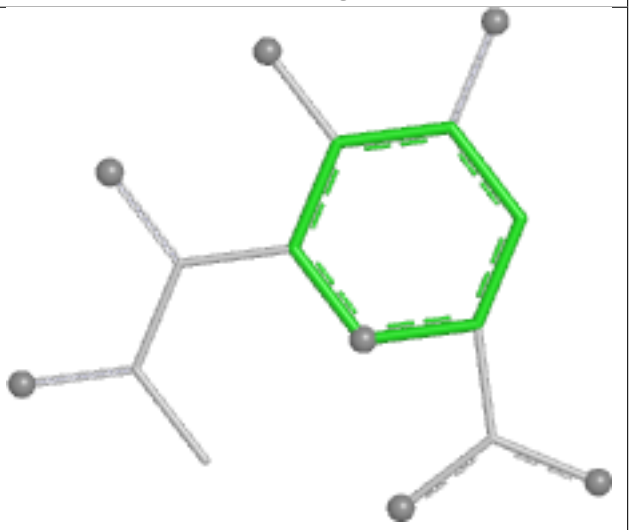
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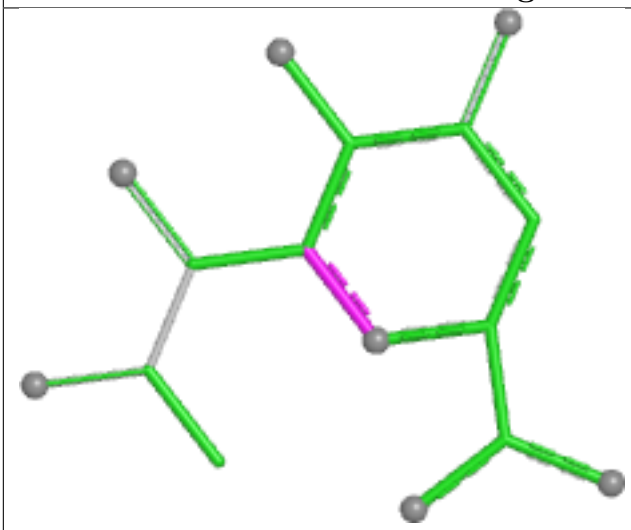


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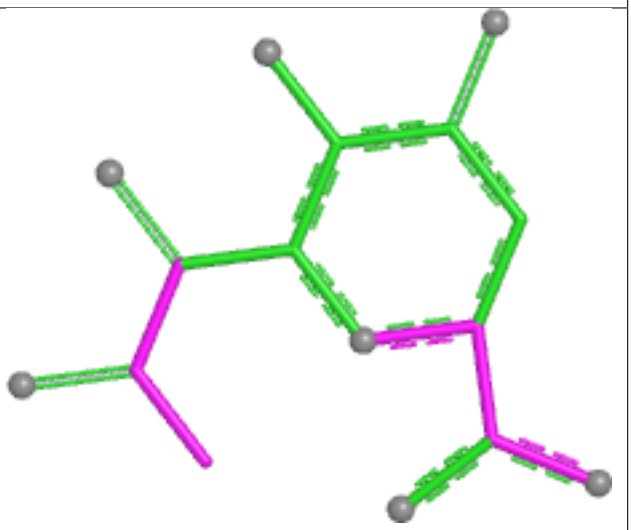


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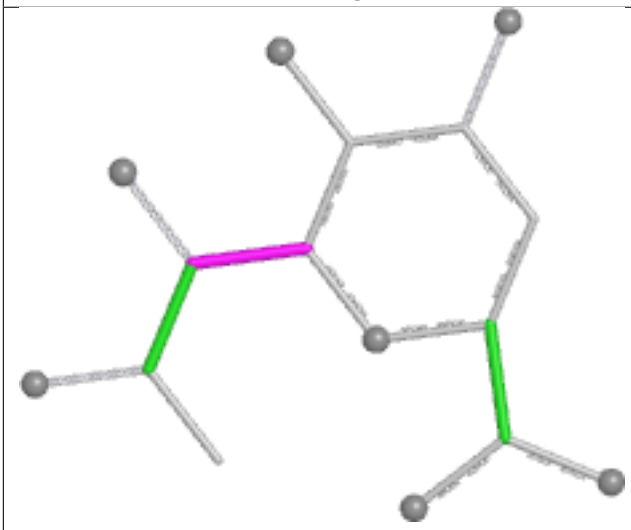
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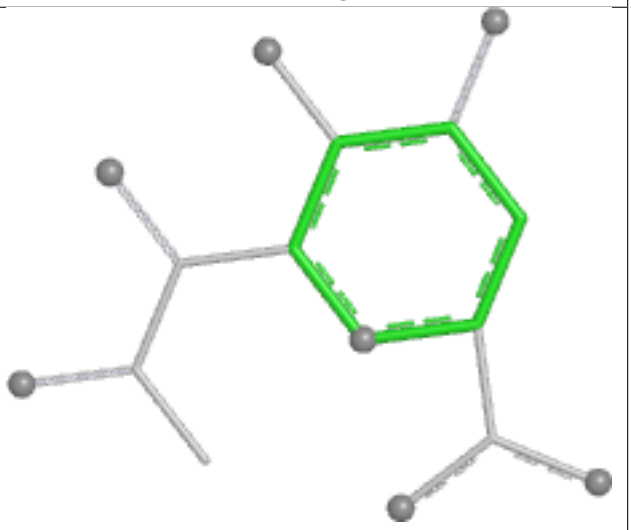
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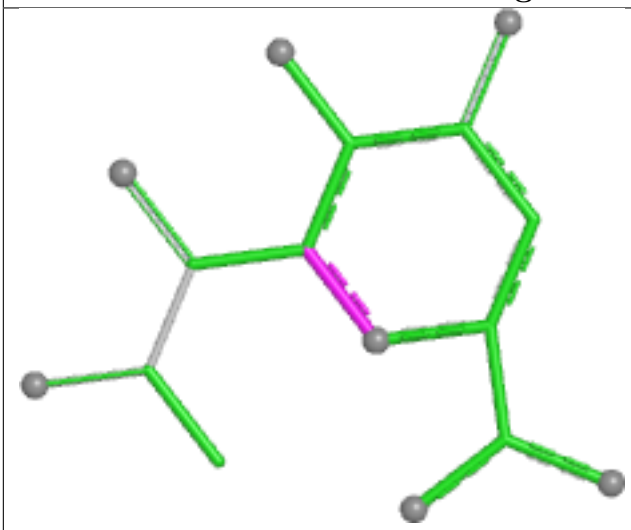


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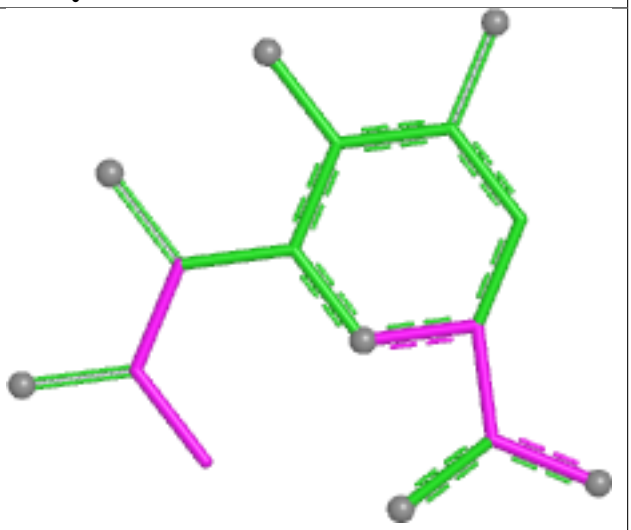


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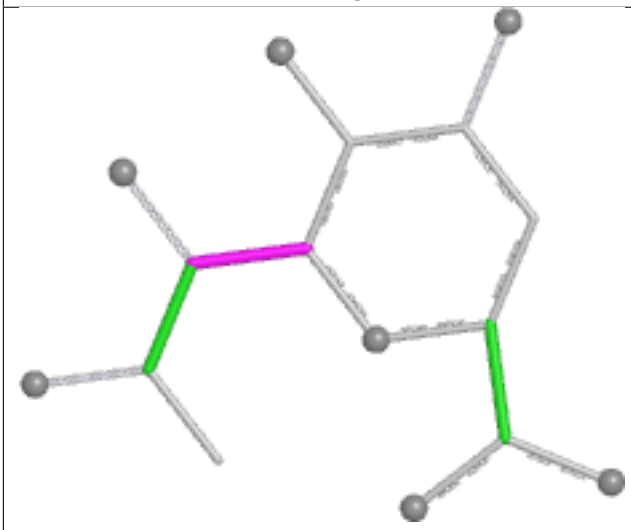
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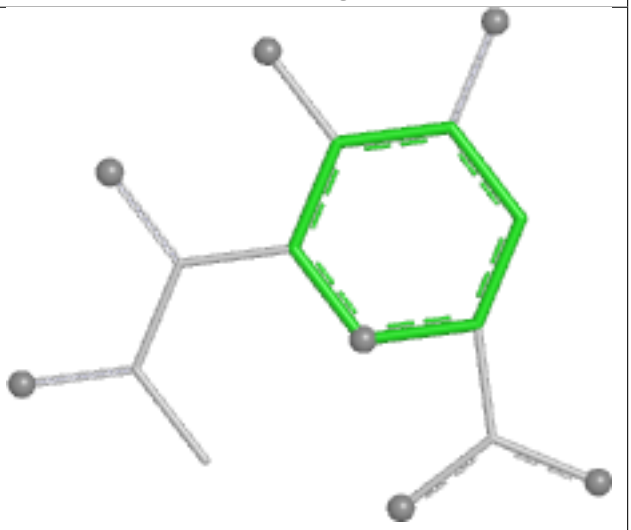
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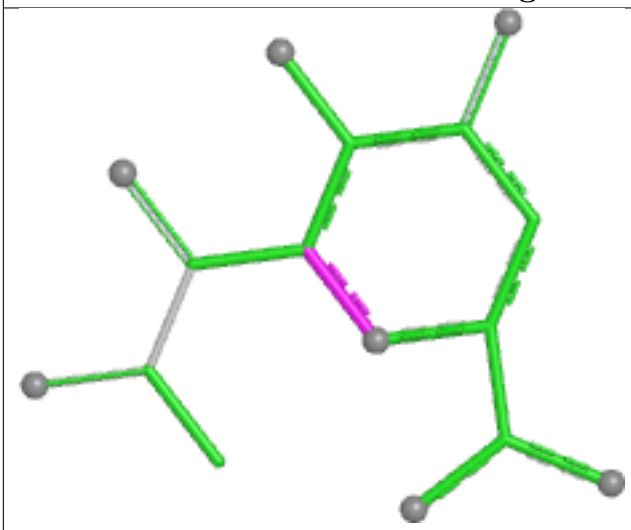


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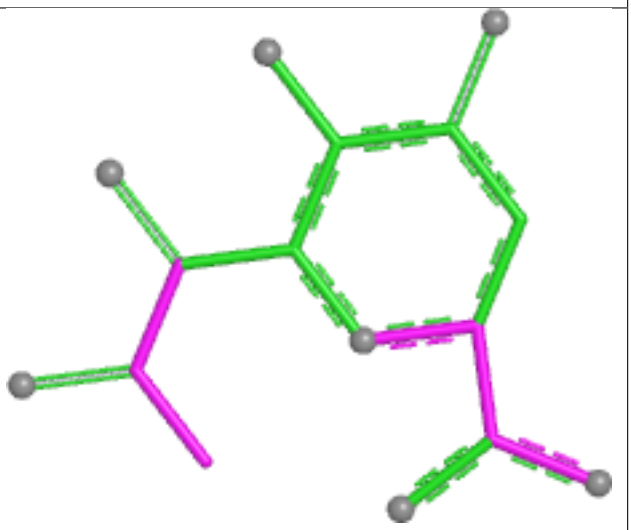


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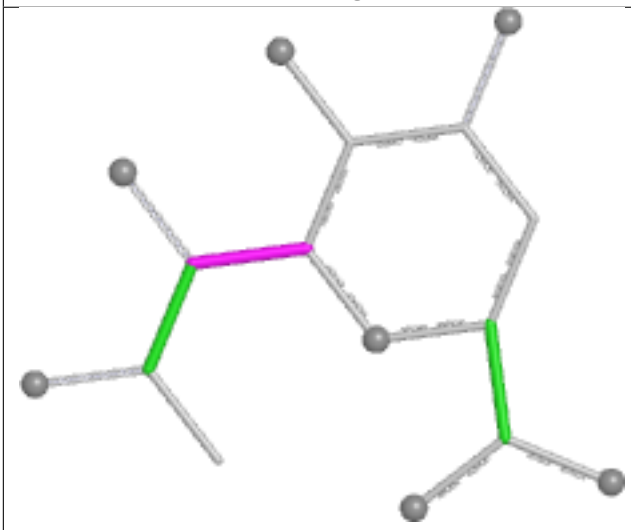
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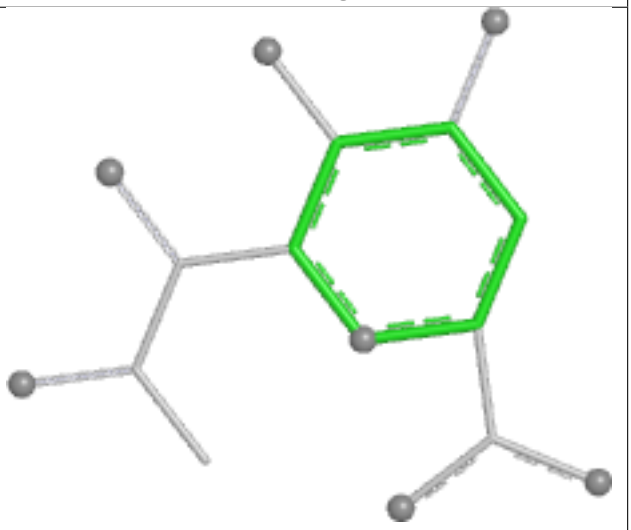
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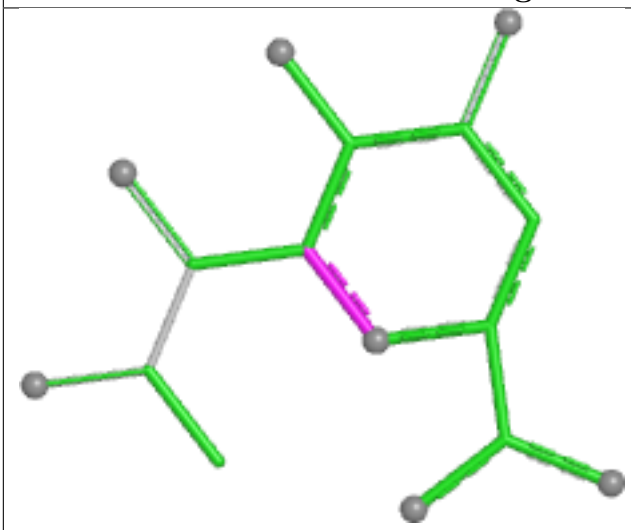


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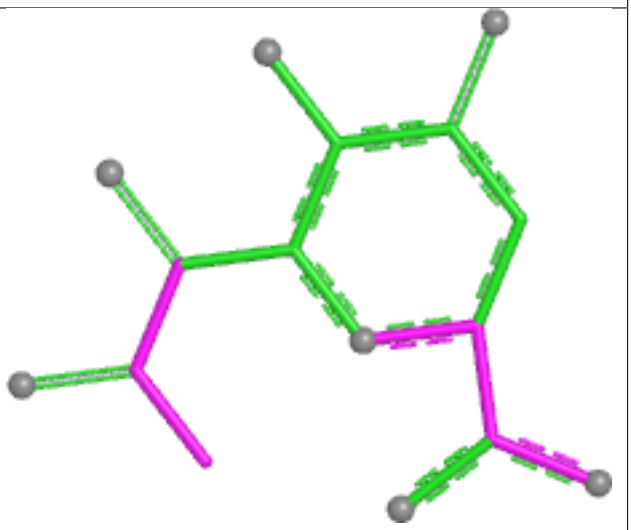


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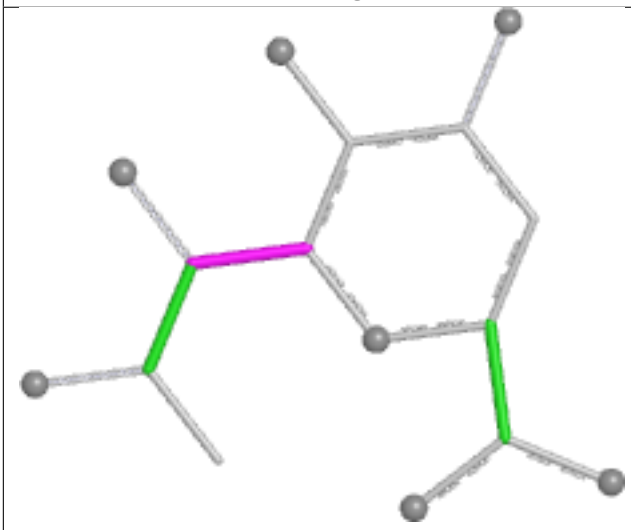
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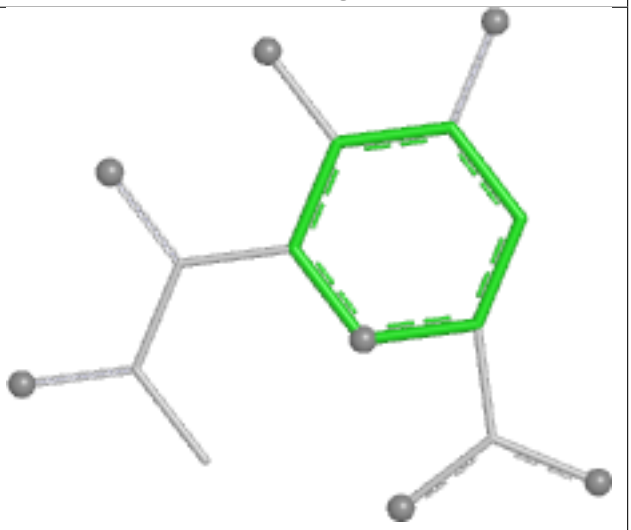
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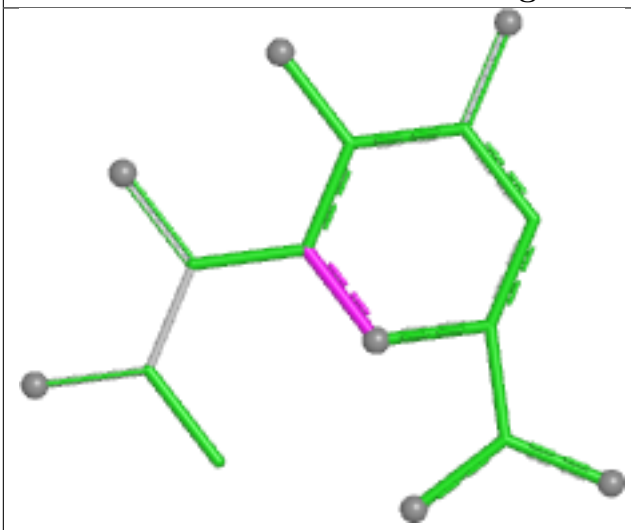


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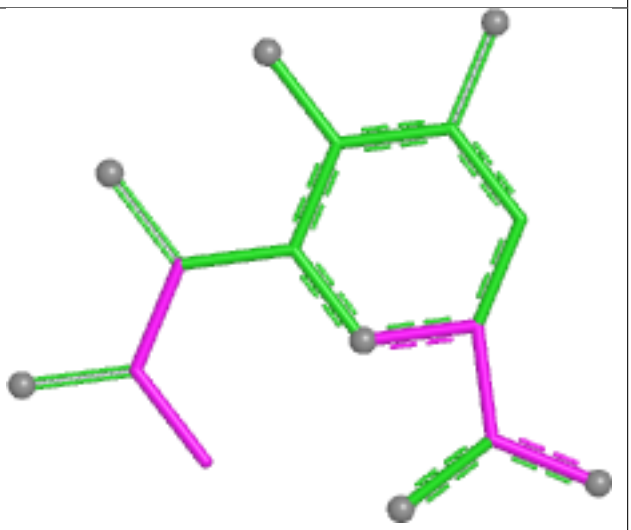


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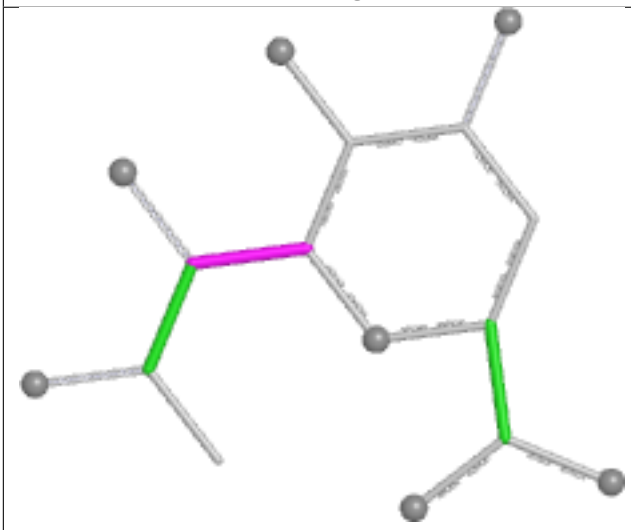
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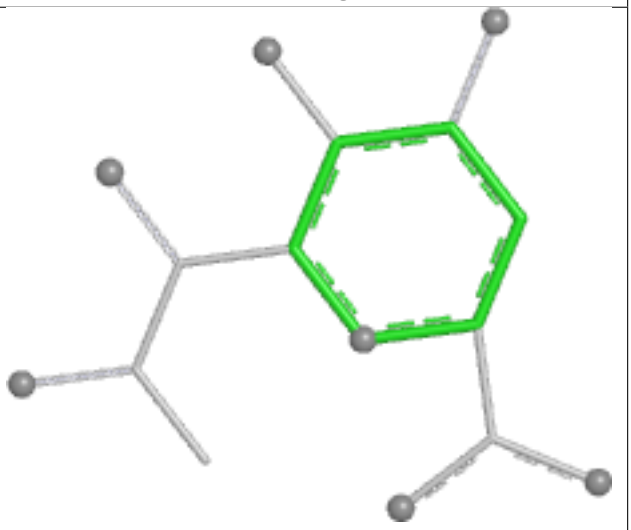
Bond lengths



Bond angles

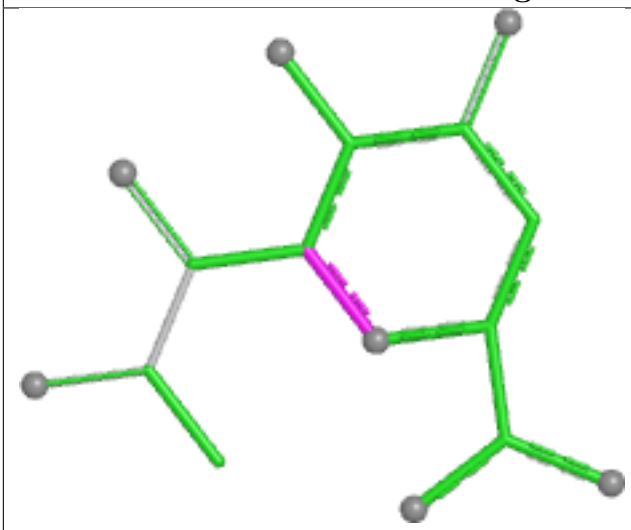


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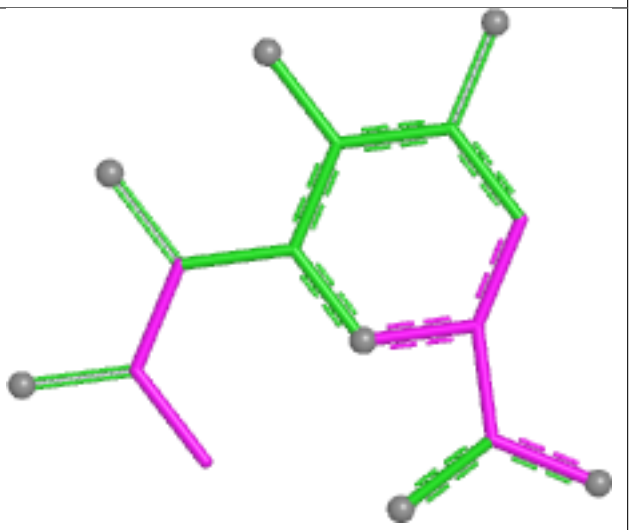


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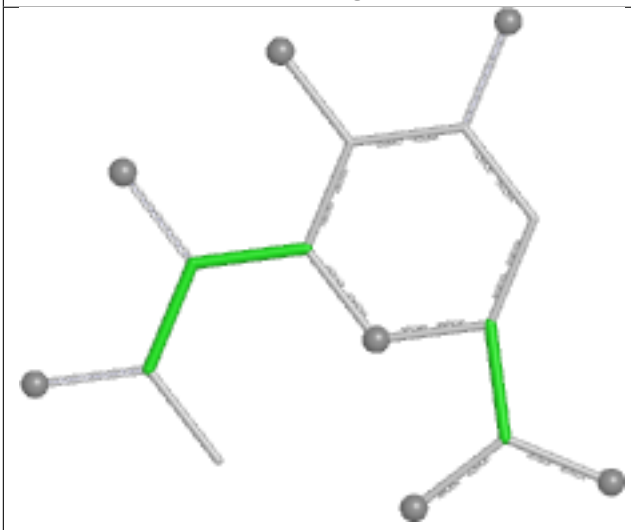
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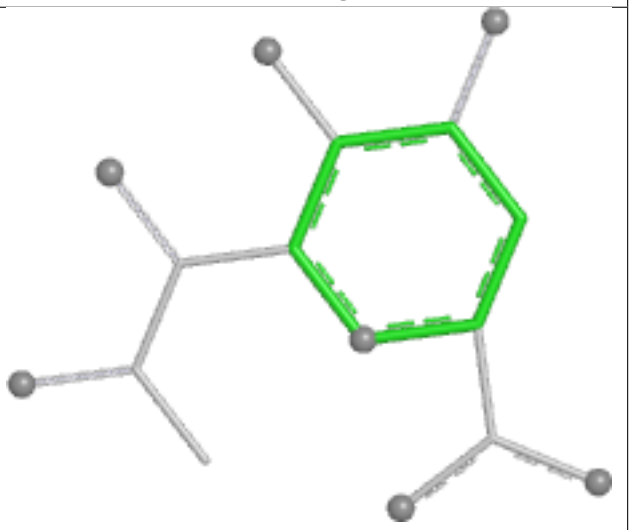
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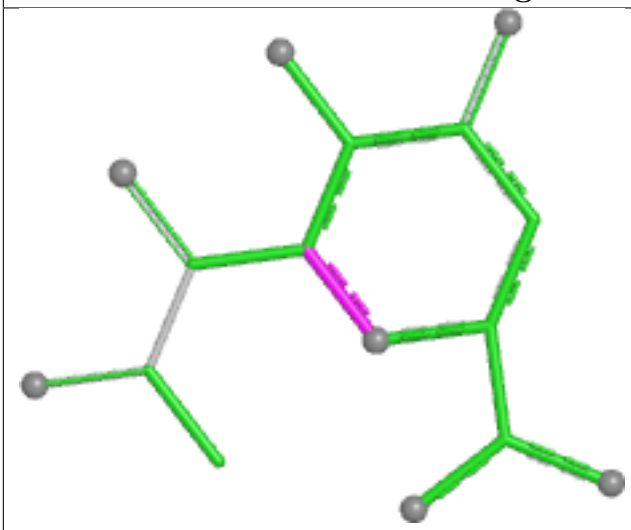


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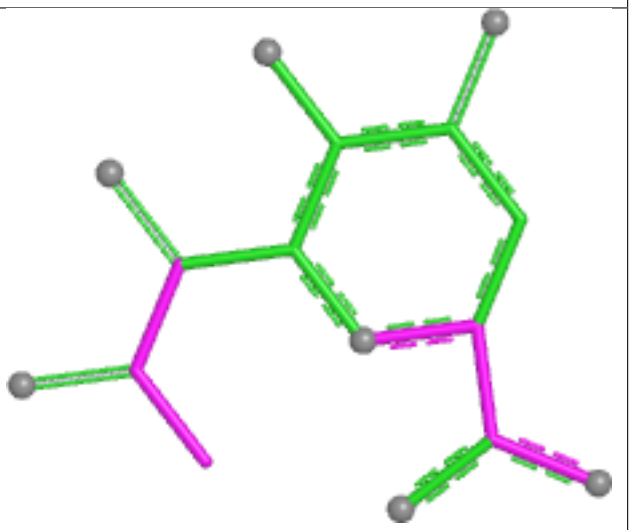


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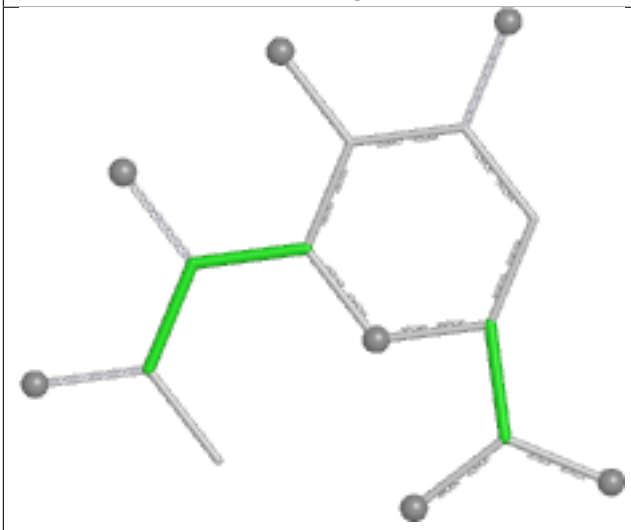
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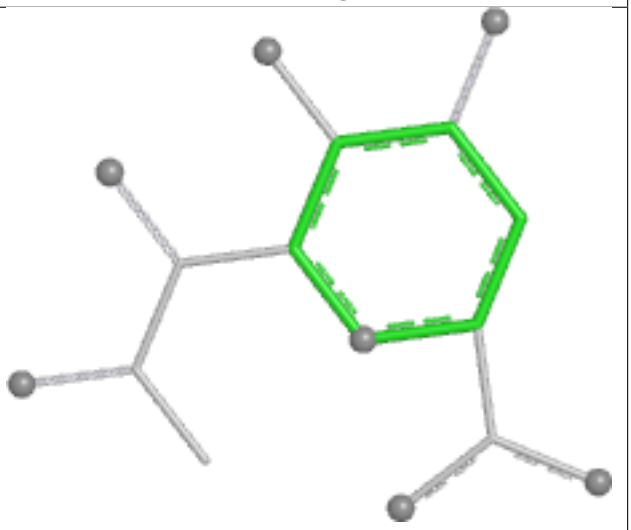
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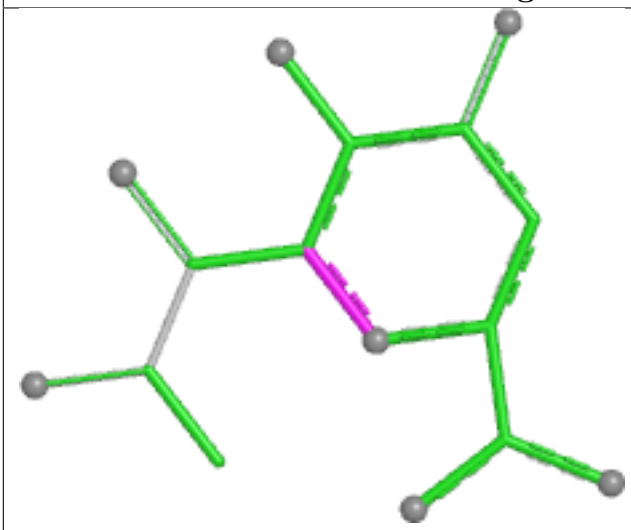


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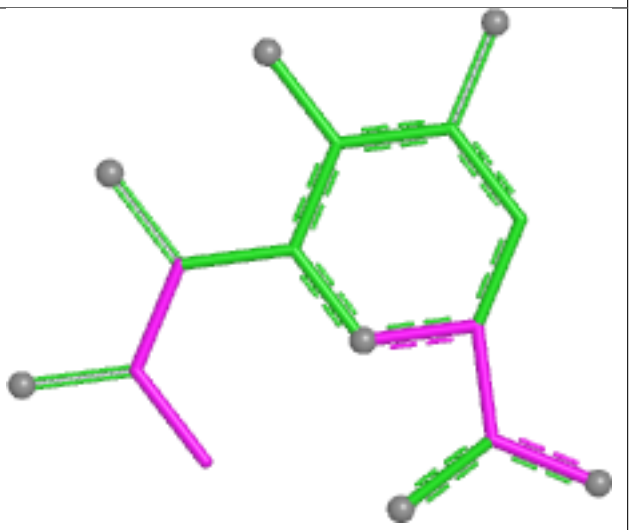


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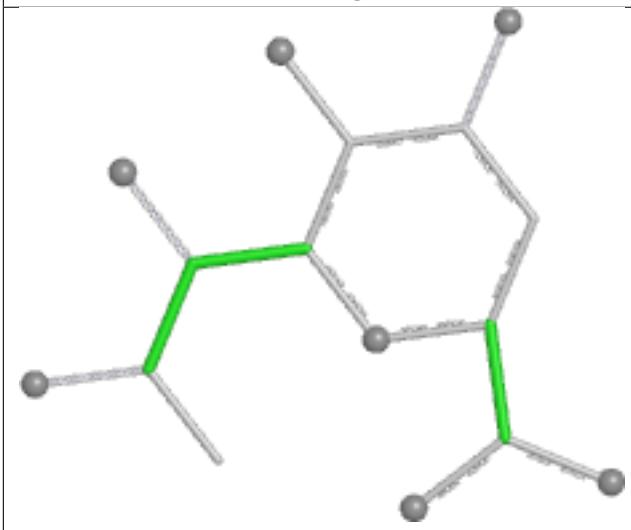
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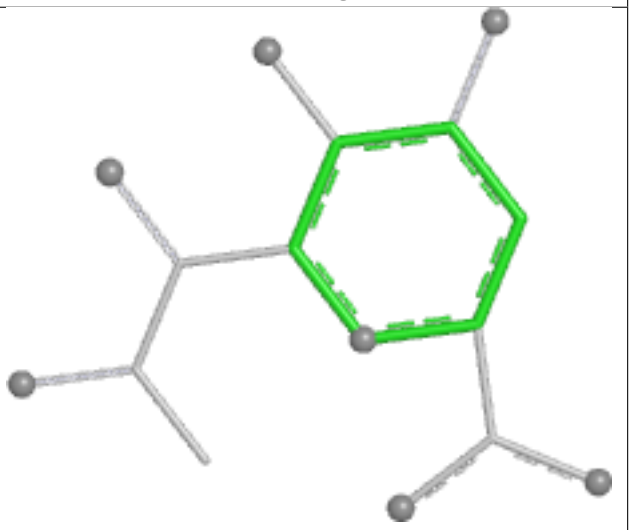
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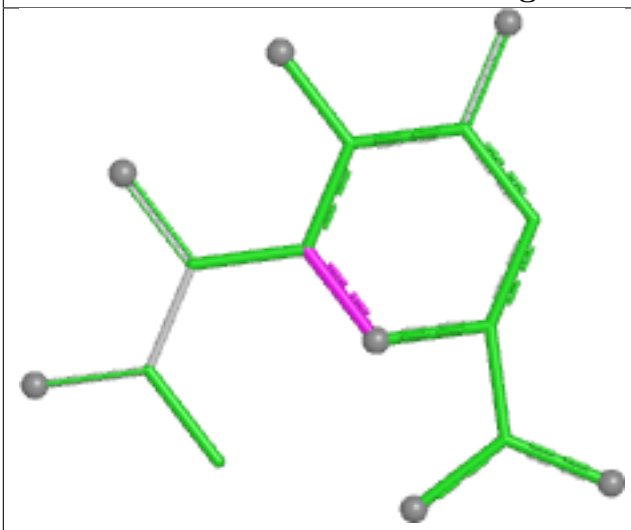


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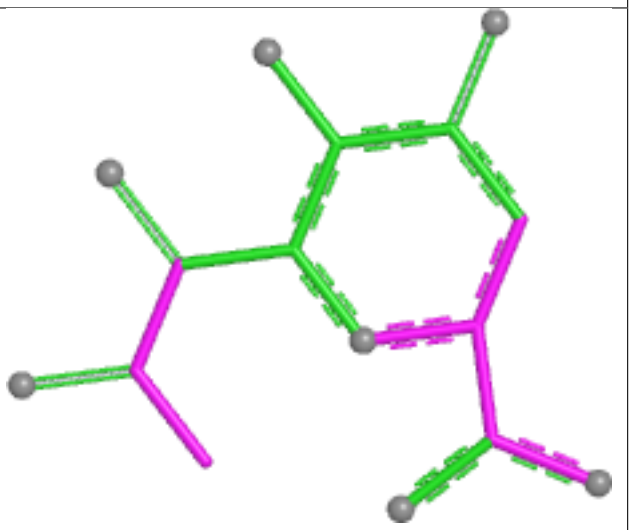


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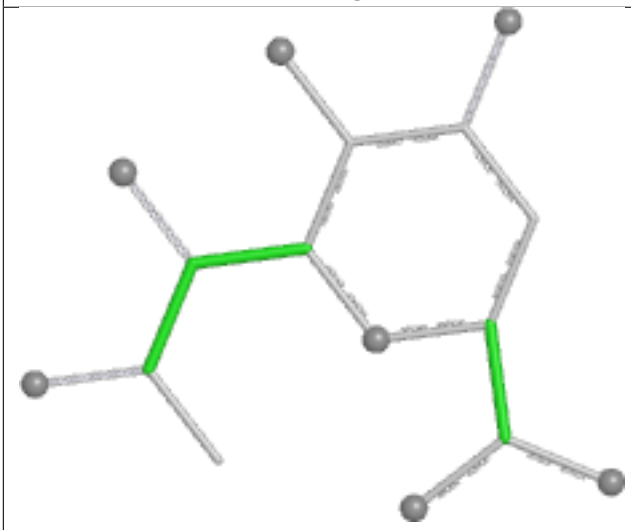
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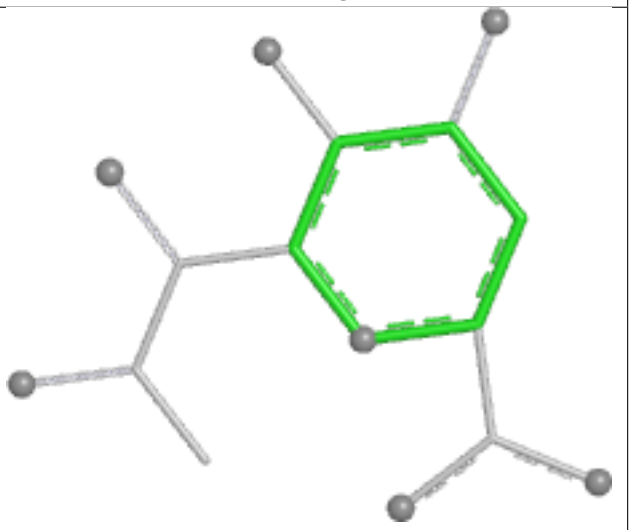
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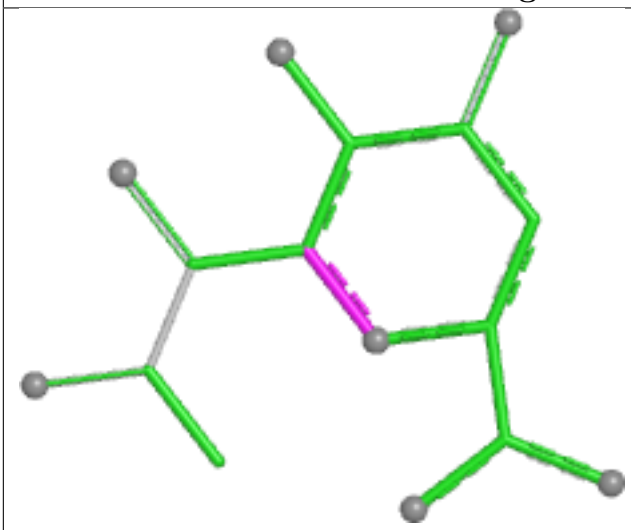


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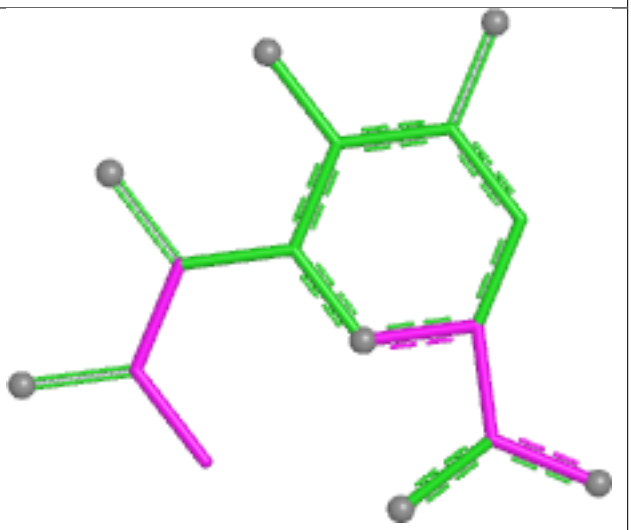


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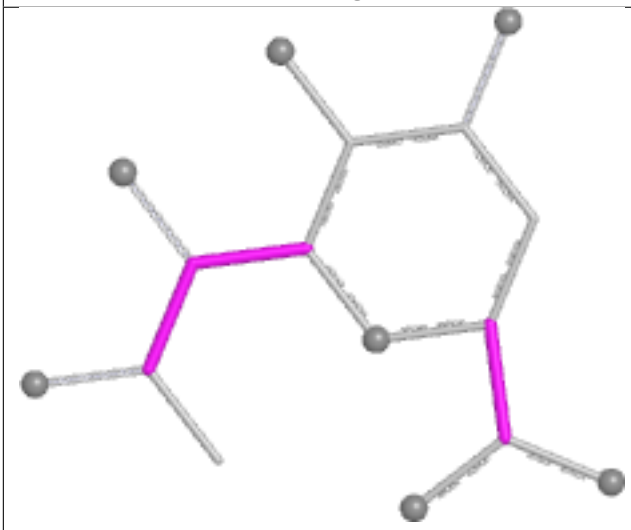
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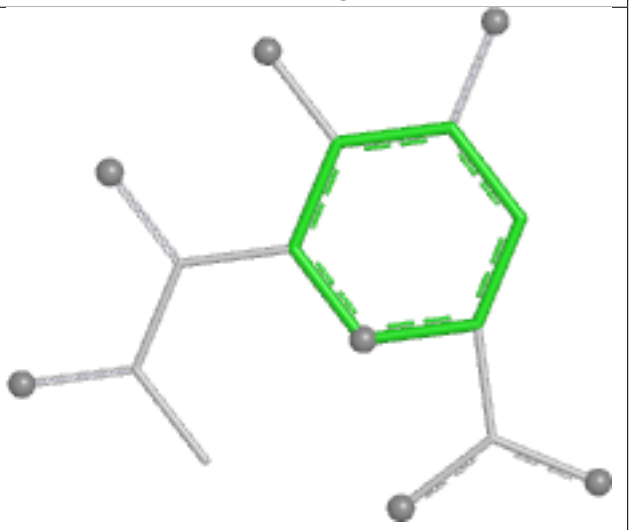
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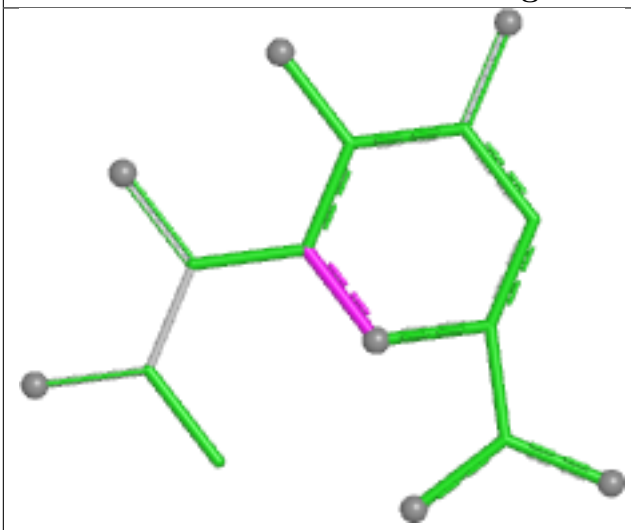


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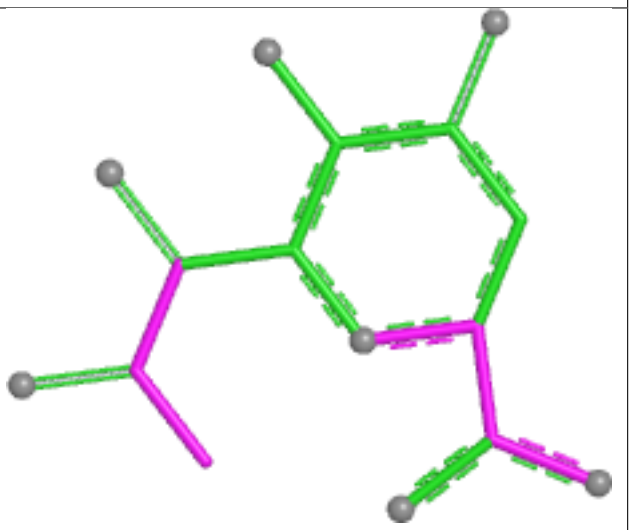


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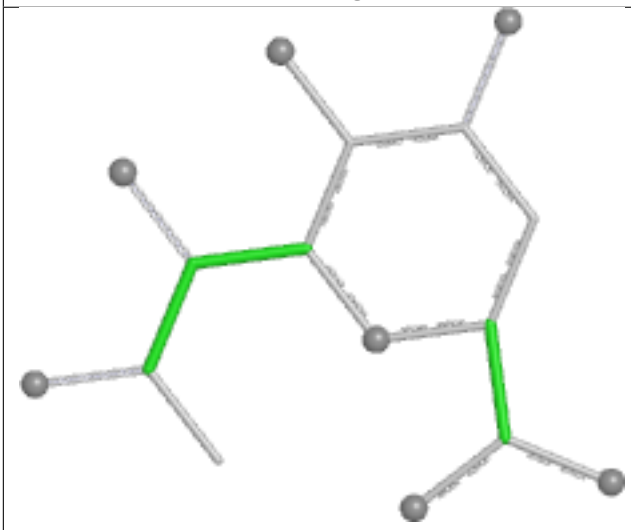
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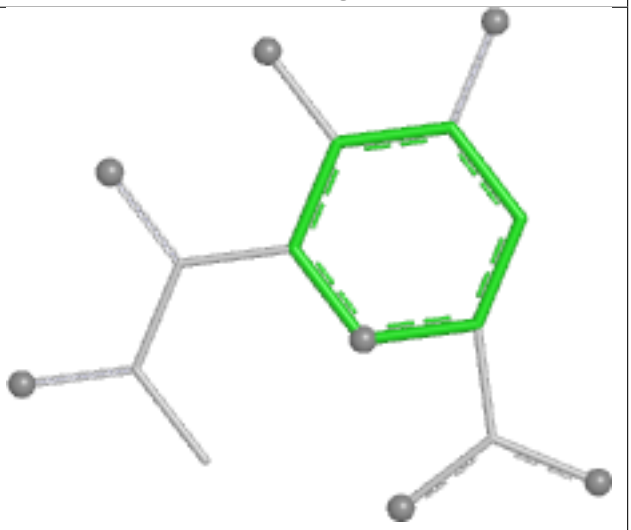
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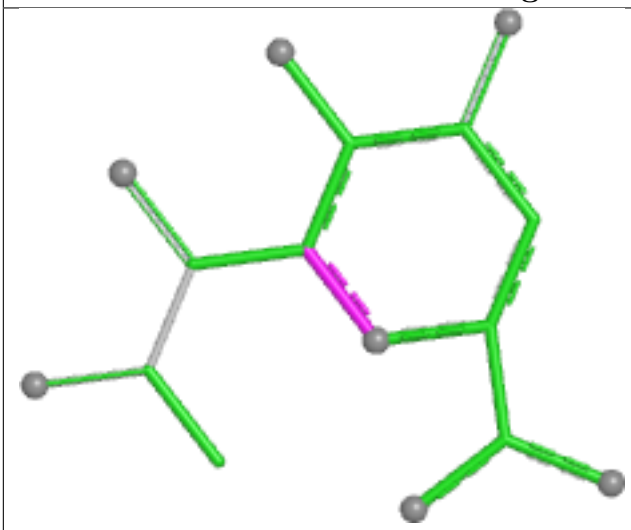


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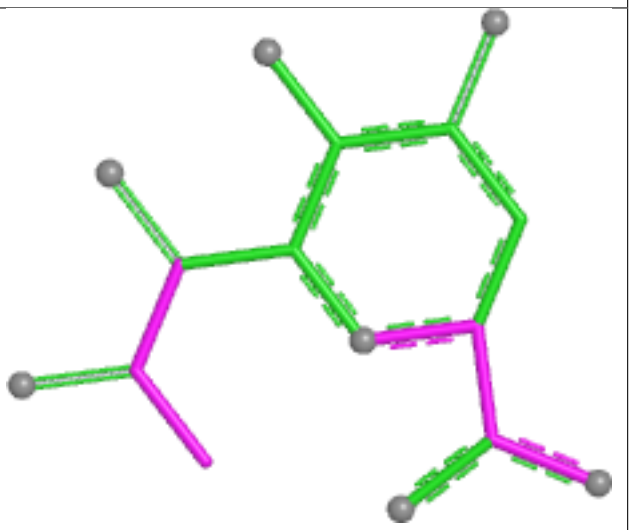


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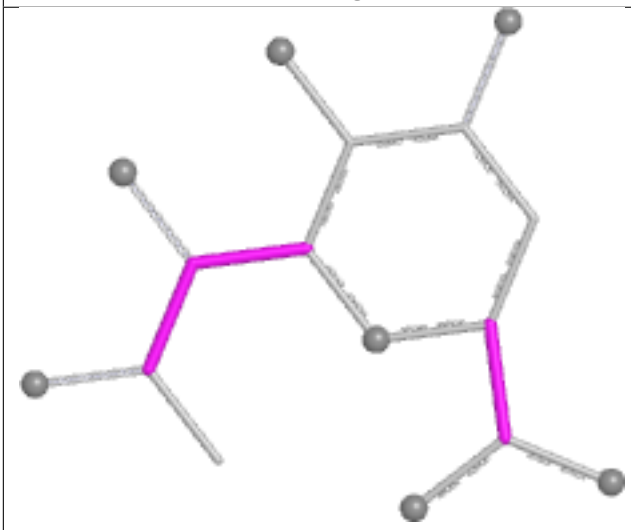
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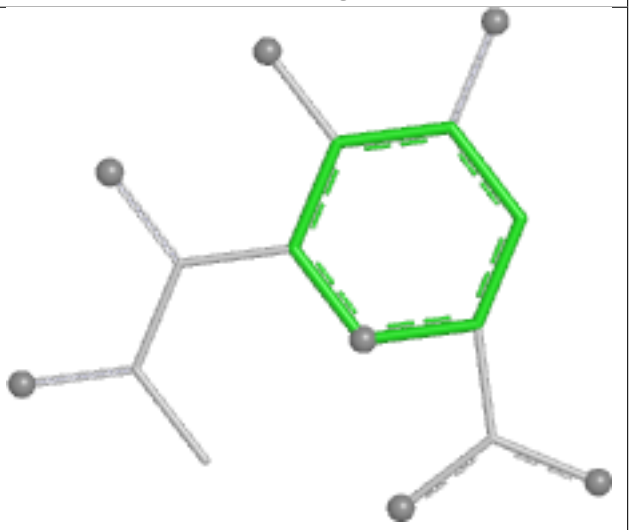
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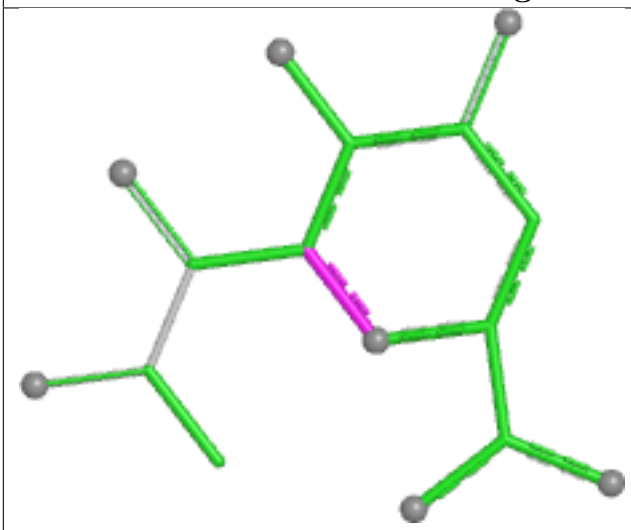


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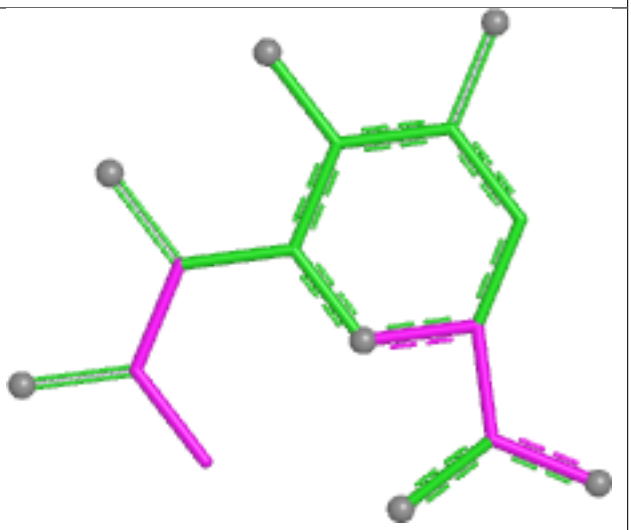


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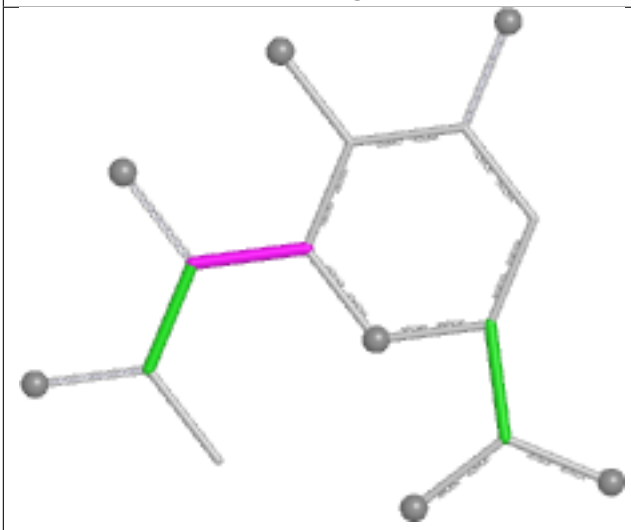
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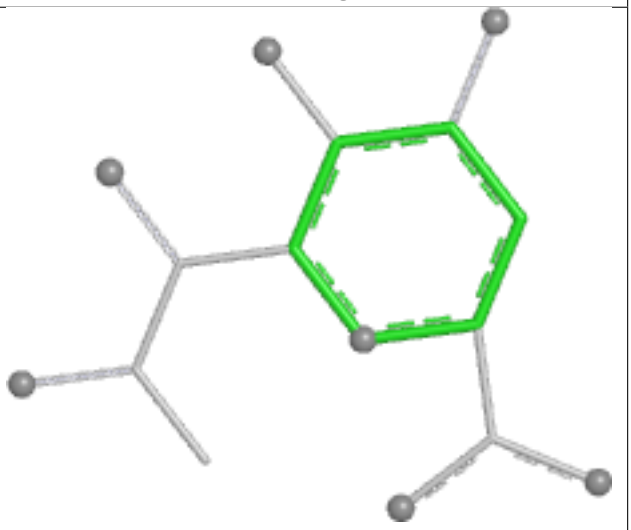
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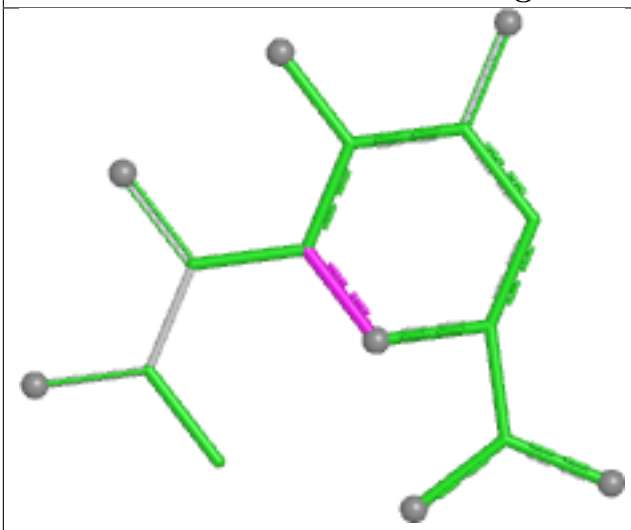


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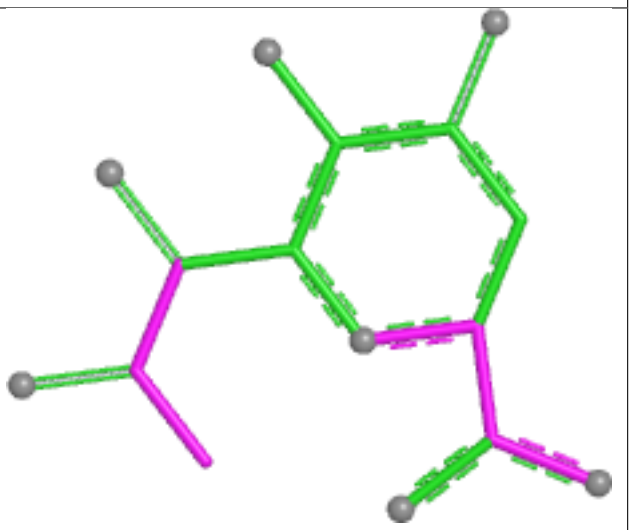


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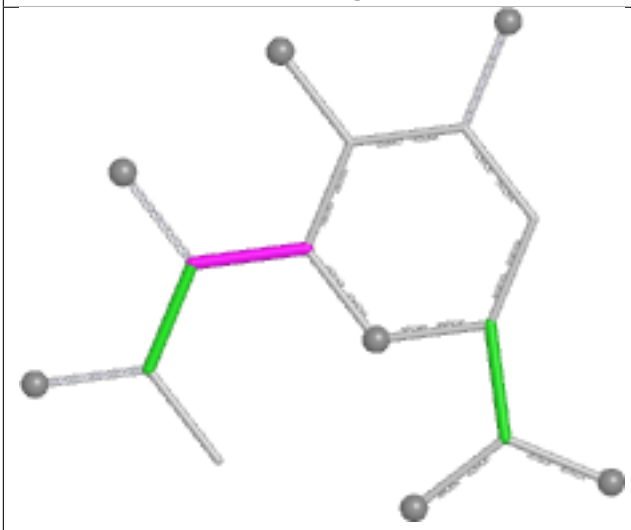
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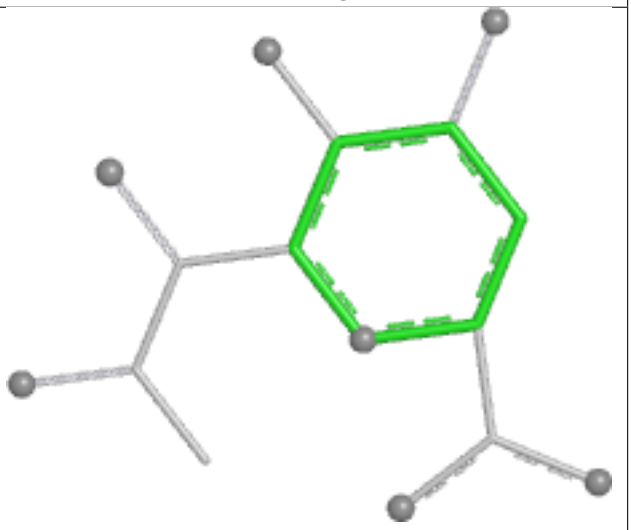
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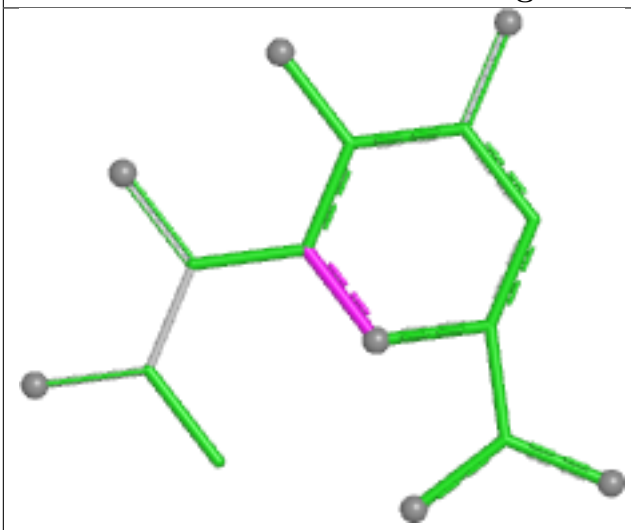


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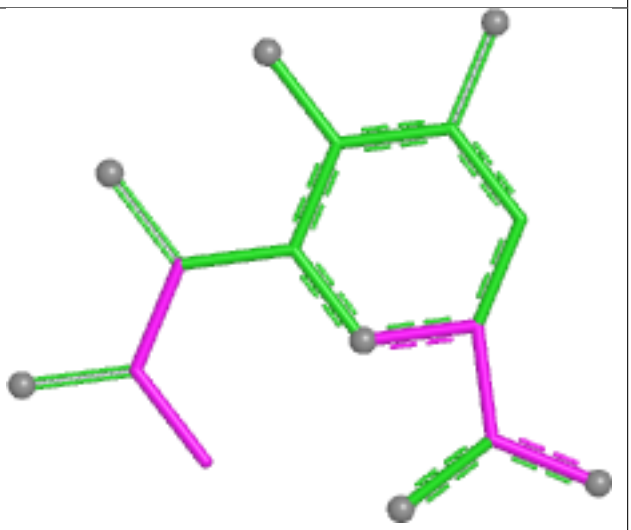


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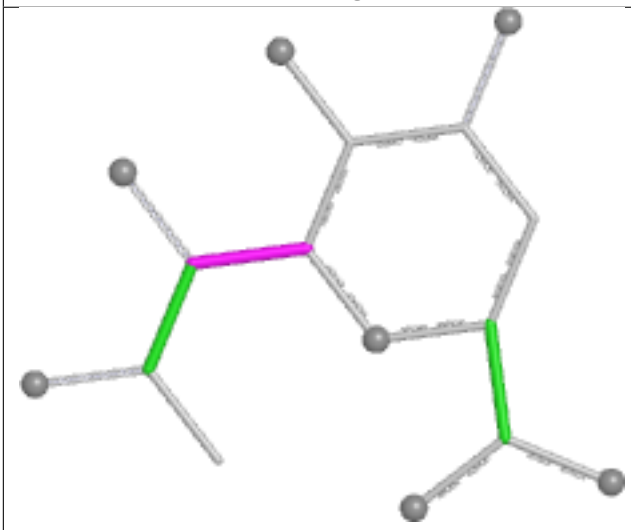
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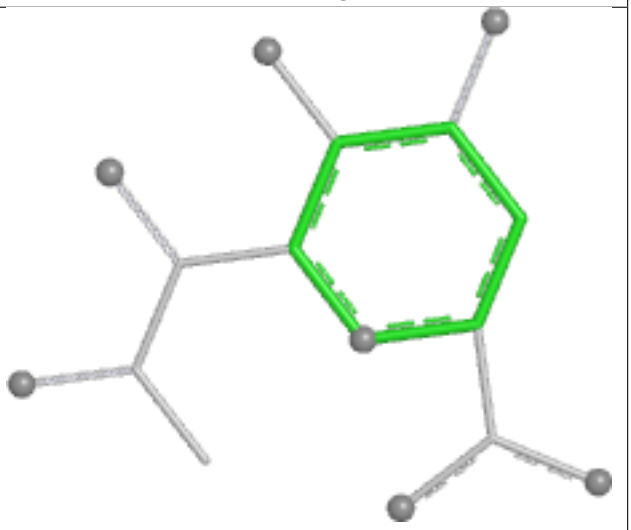
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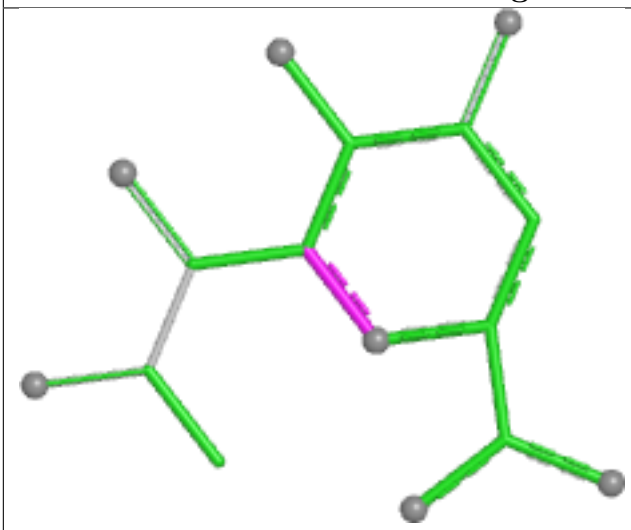


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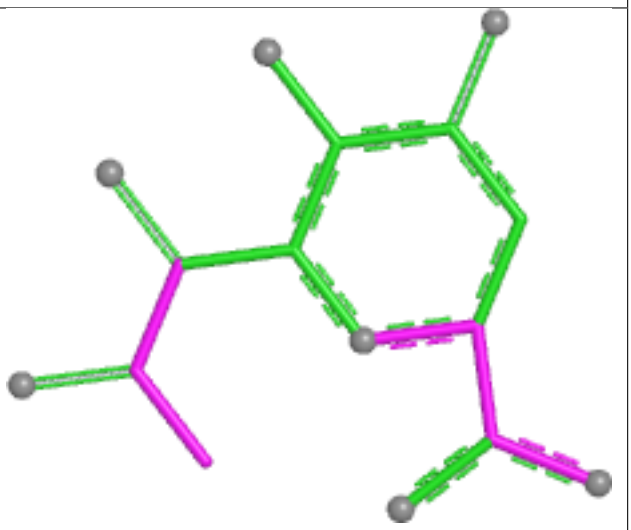


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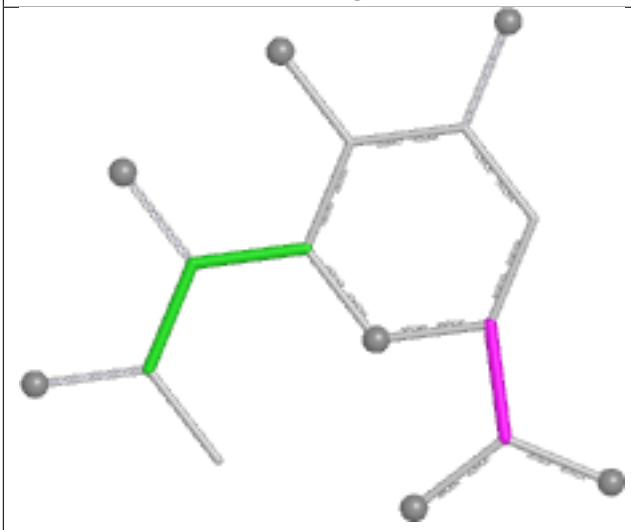
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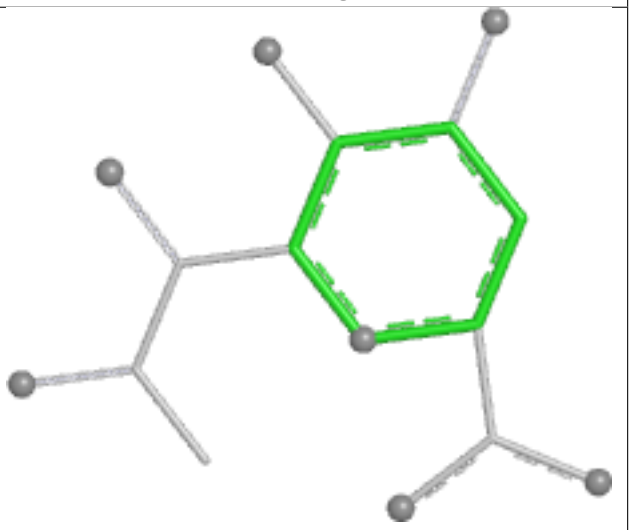
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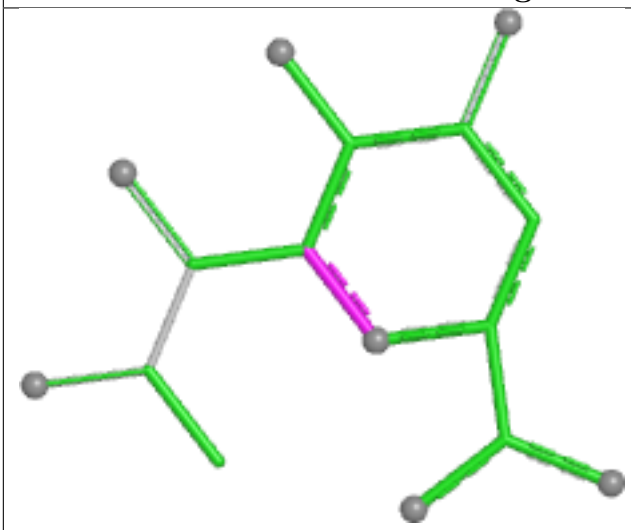


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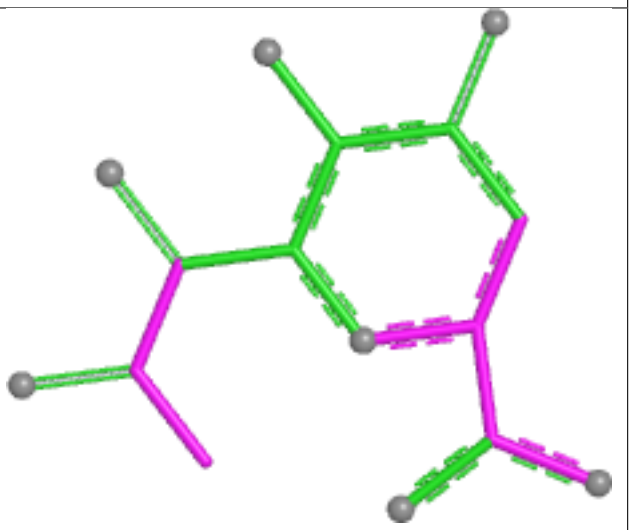


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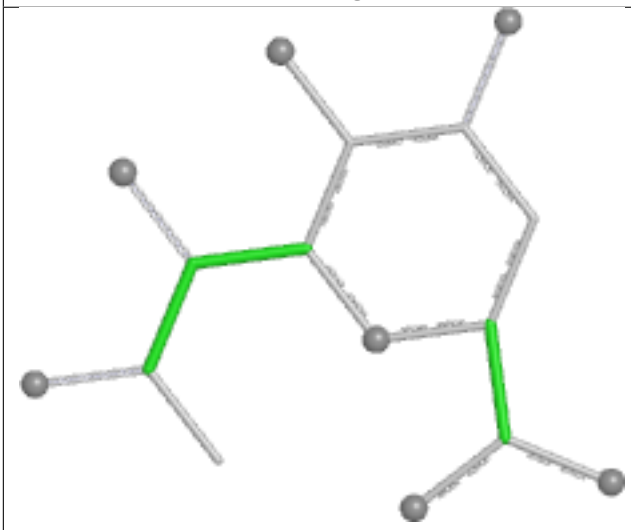
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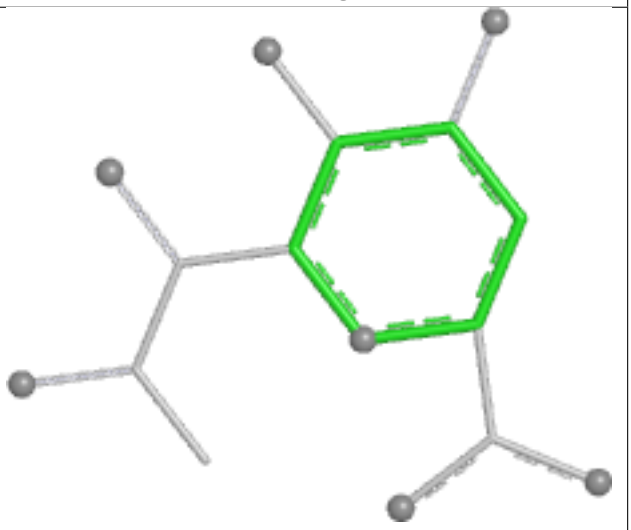
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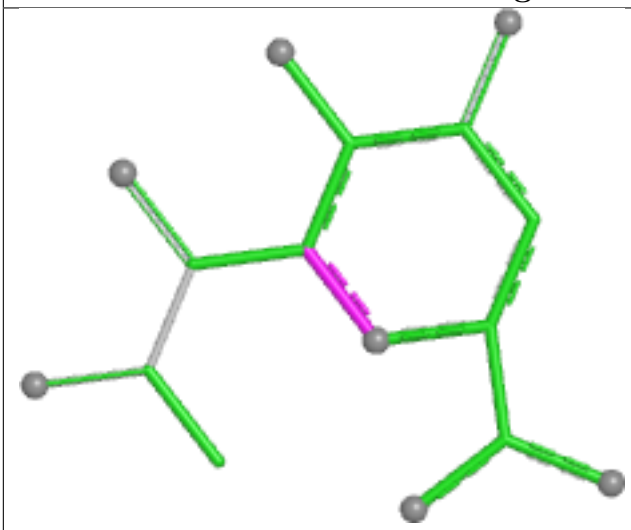


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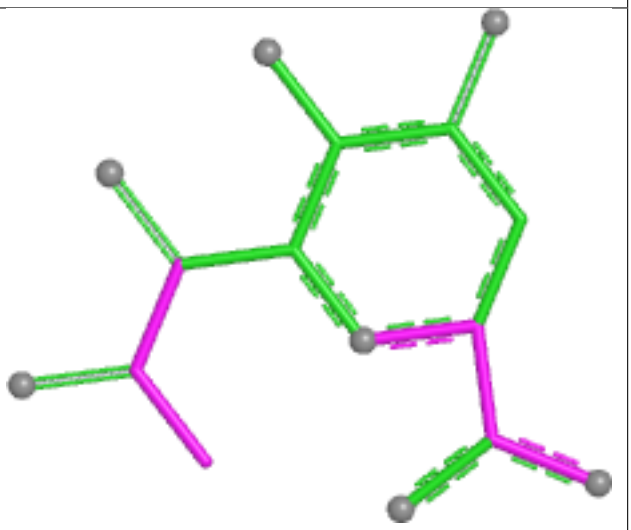


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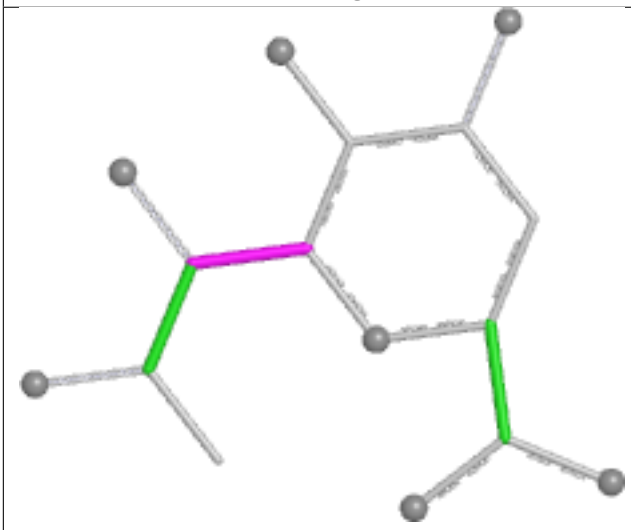
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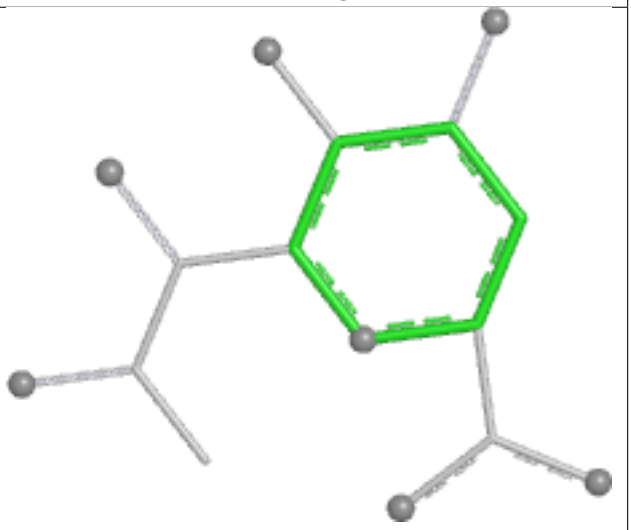
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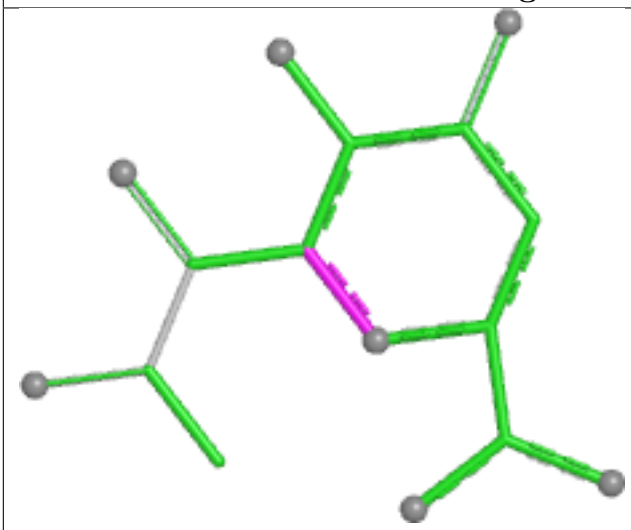


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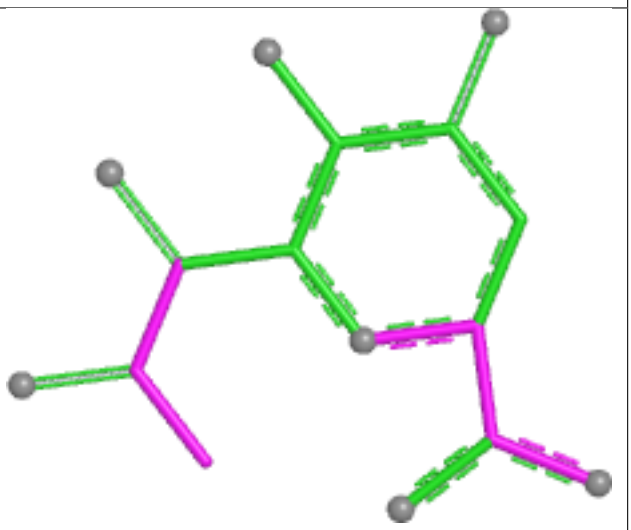


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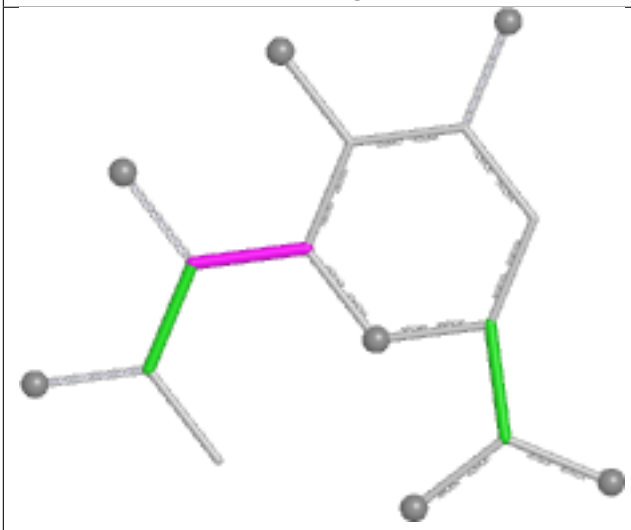
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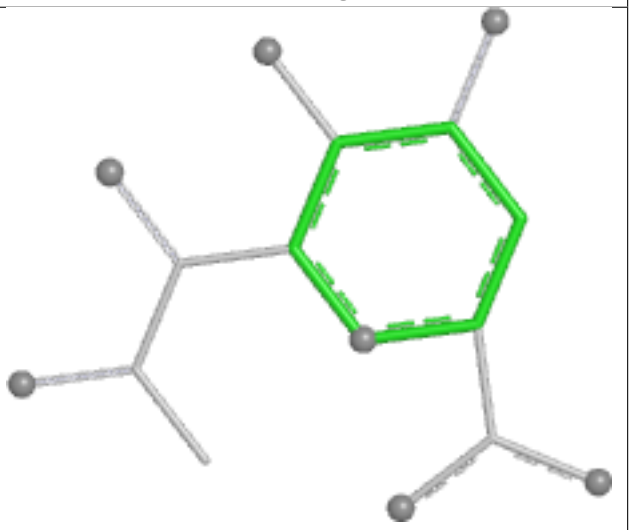
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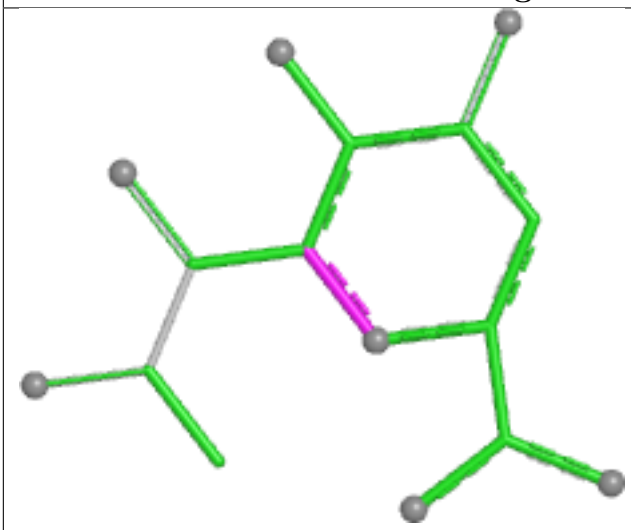


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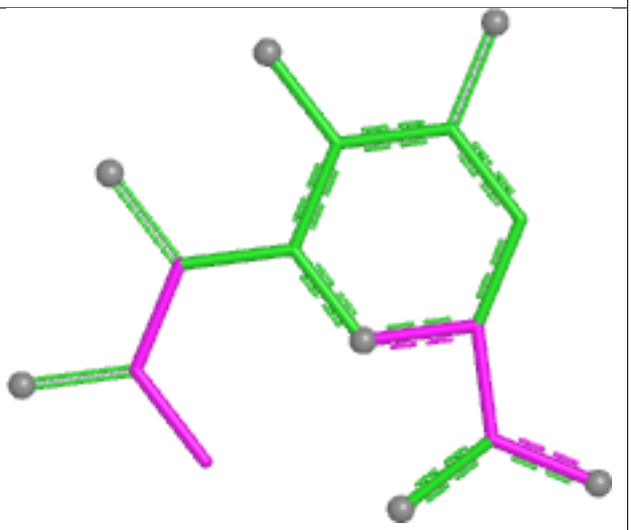


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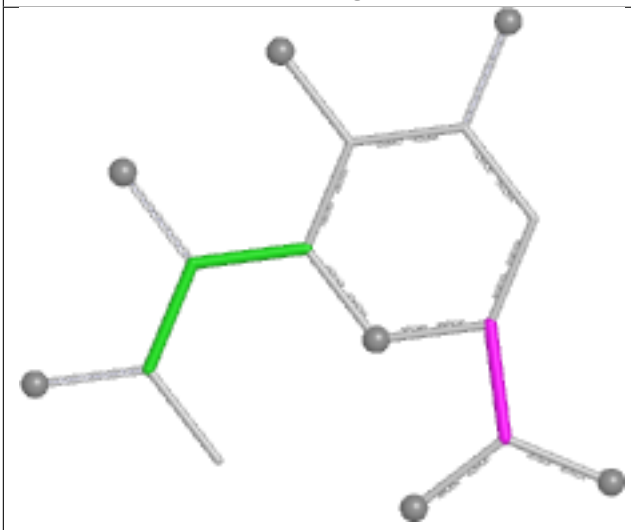
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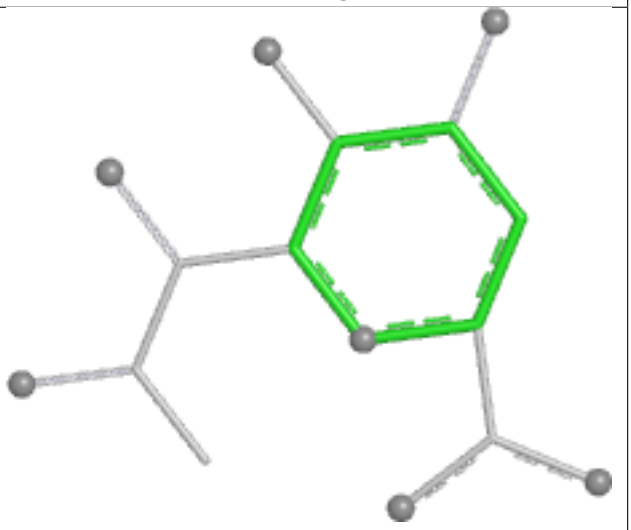
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Bond angles

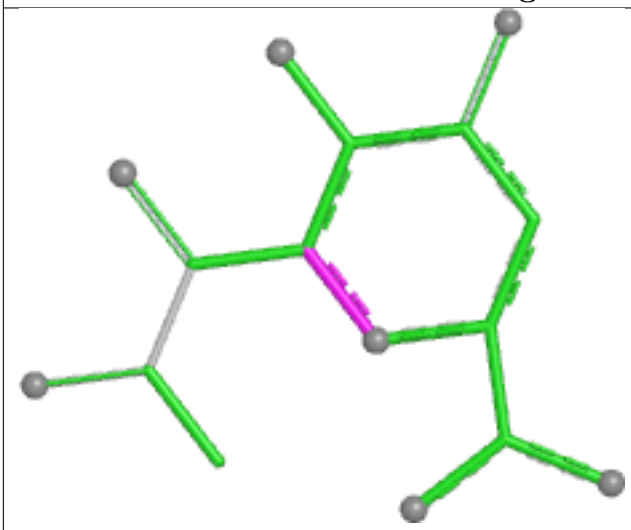


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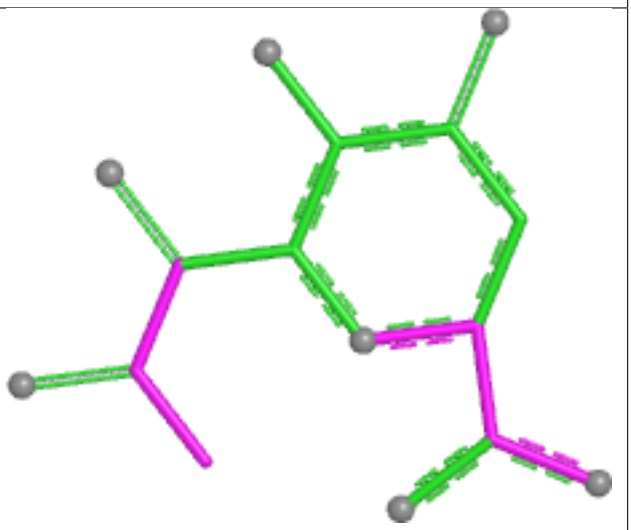


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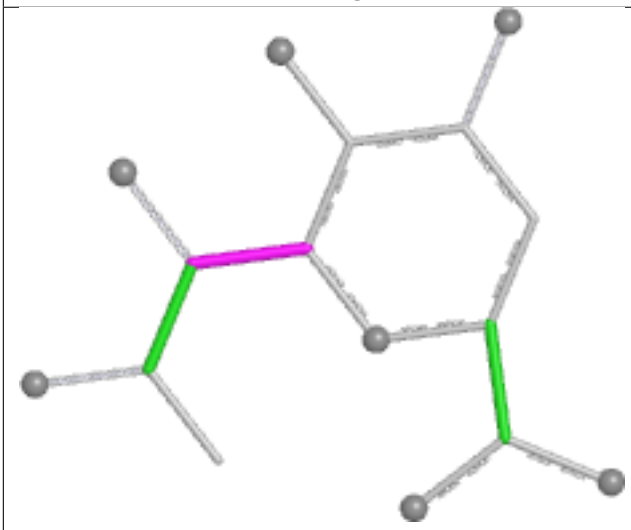
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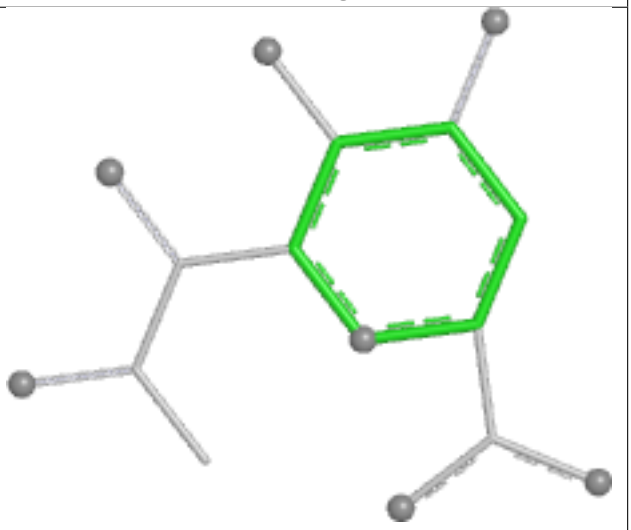
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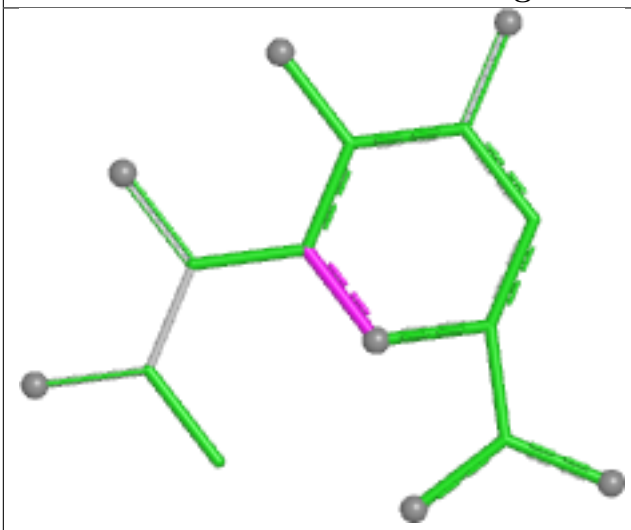


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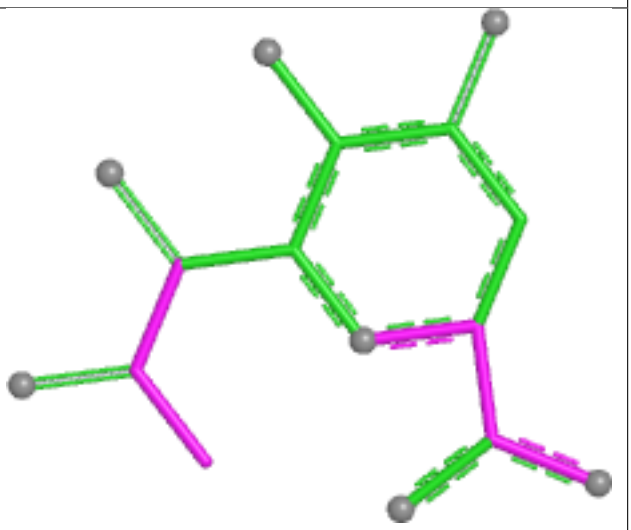


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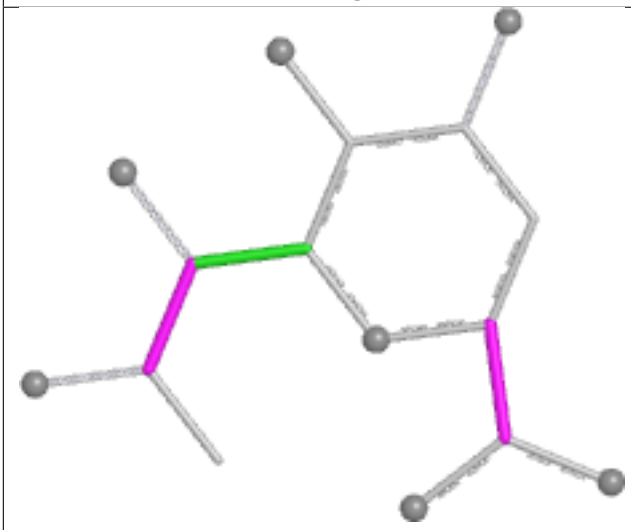
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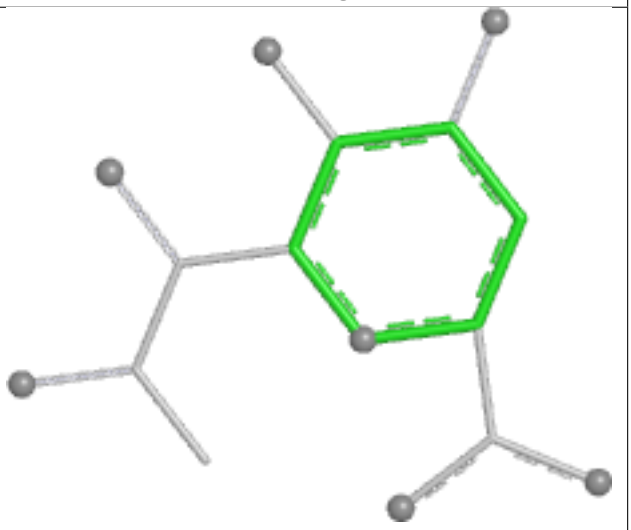
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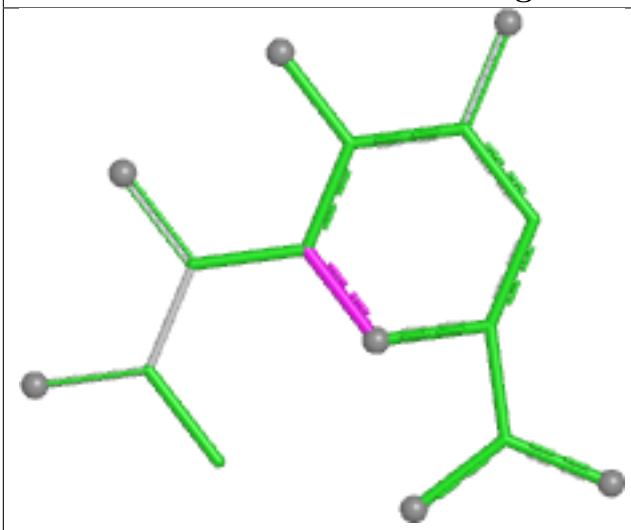


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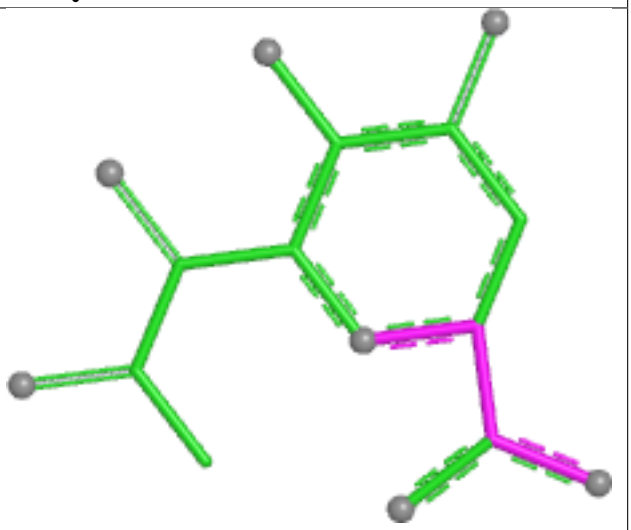


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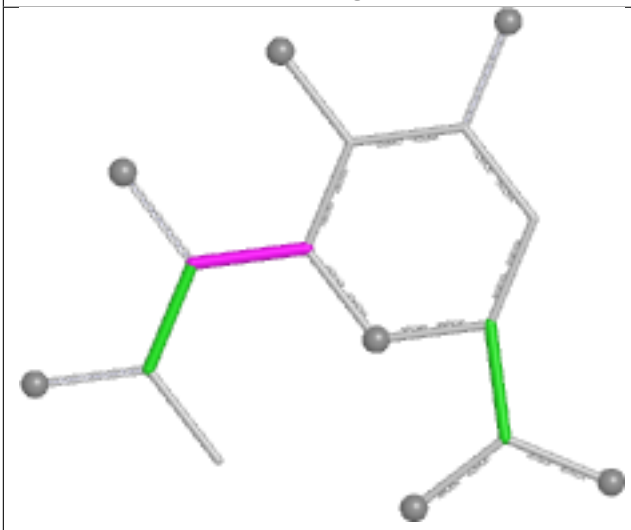
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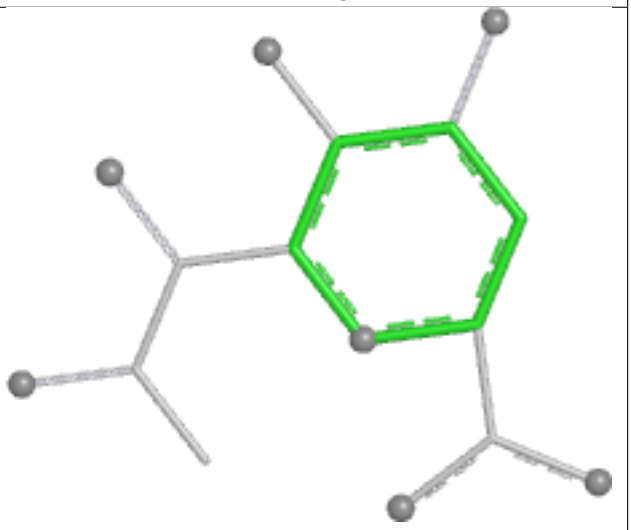
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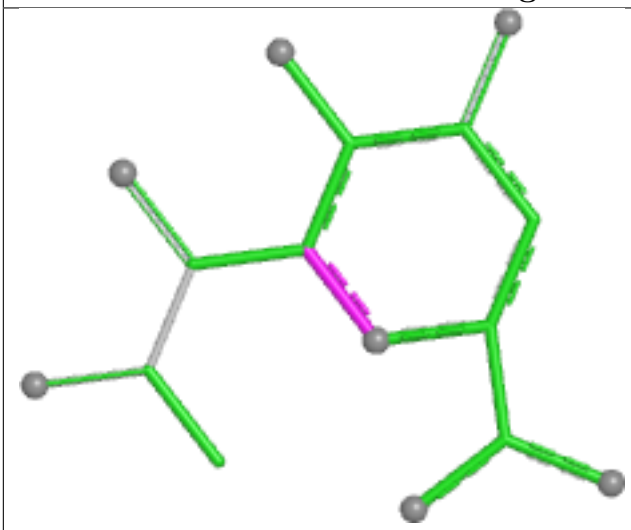


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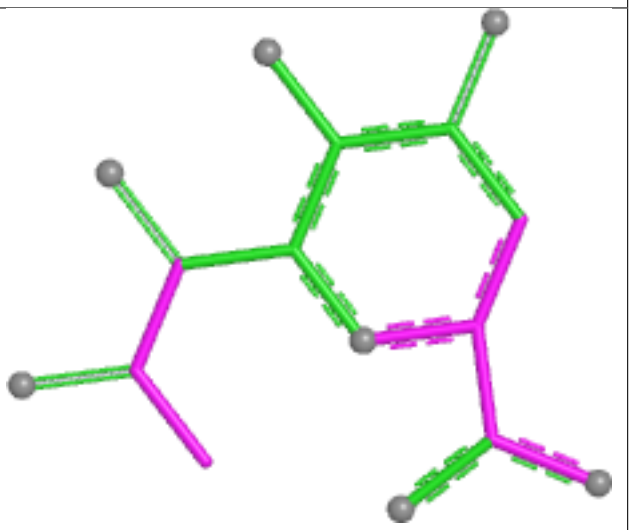


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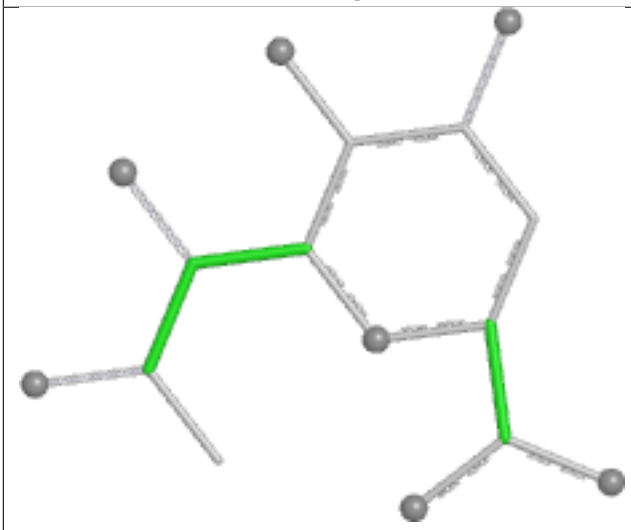
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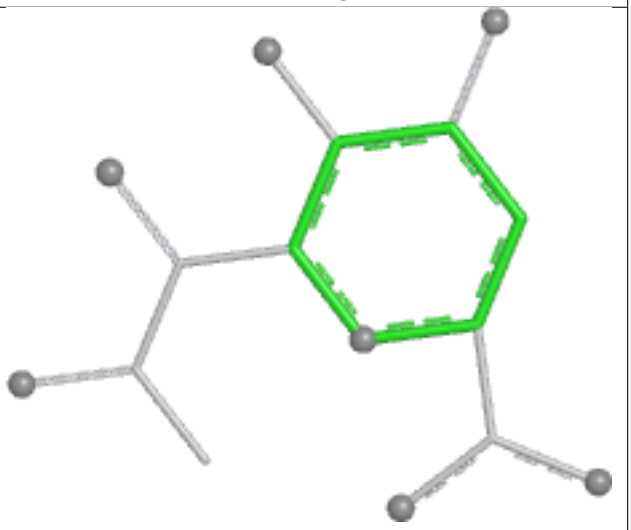
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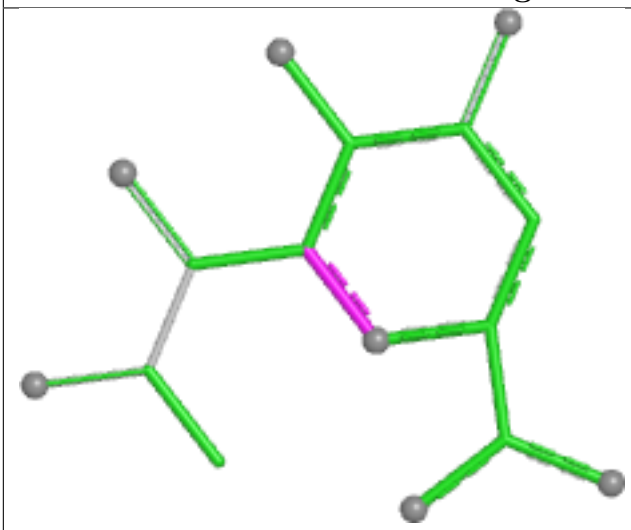


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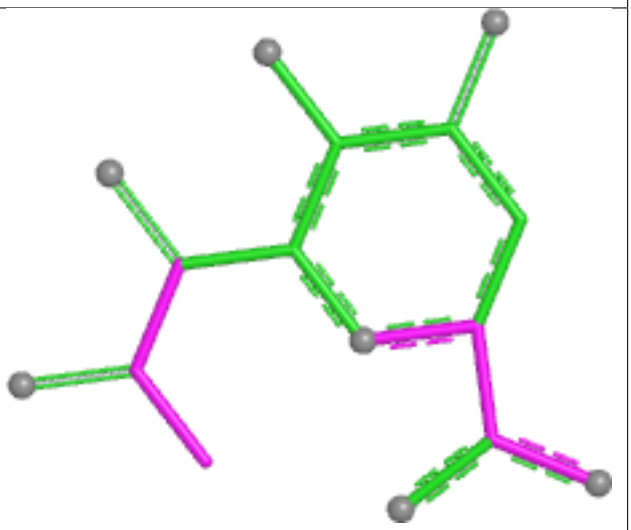


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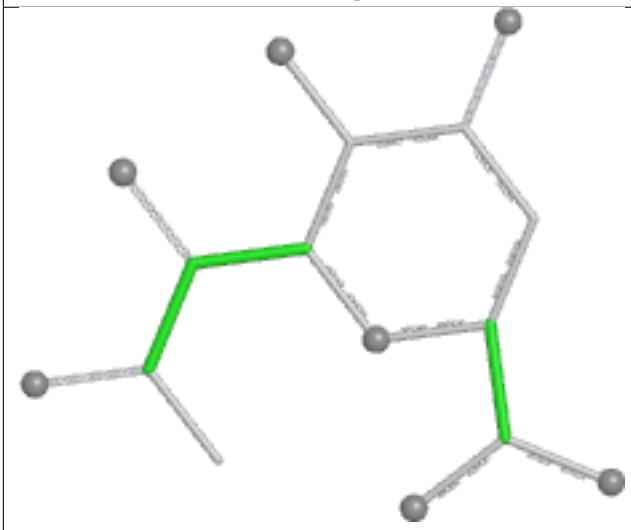
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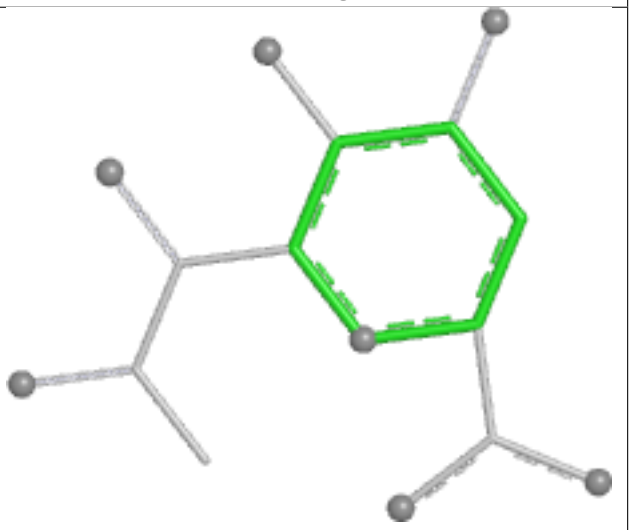
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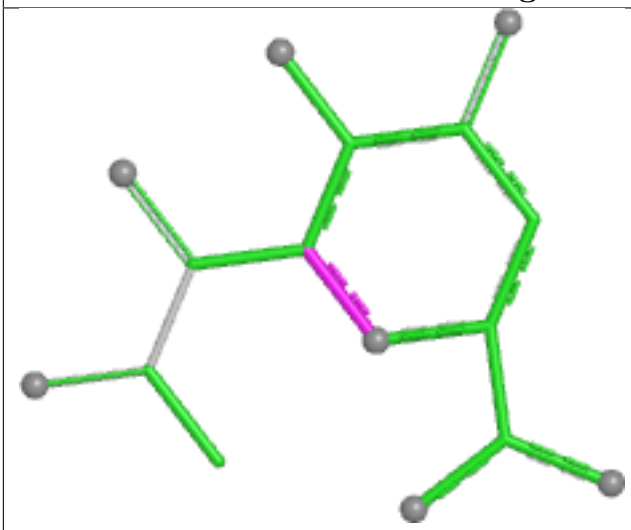


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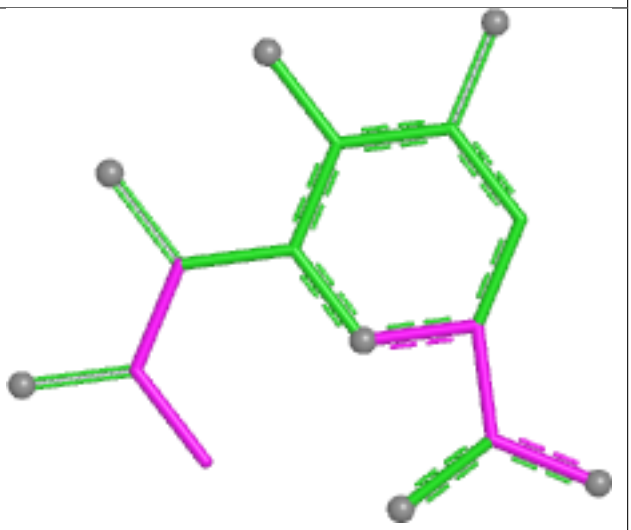


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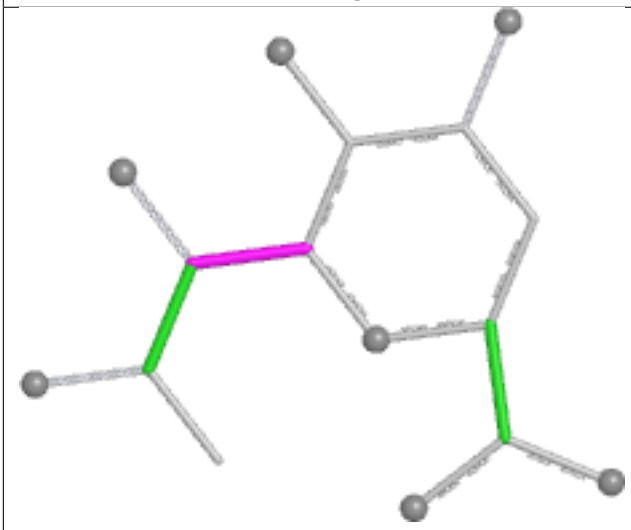
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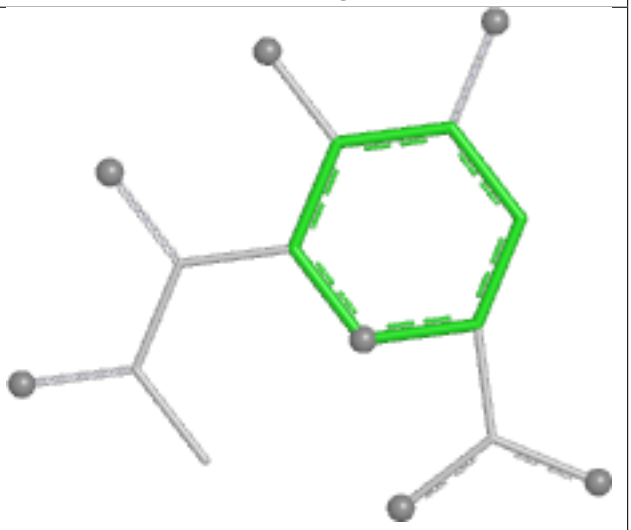
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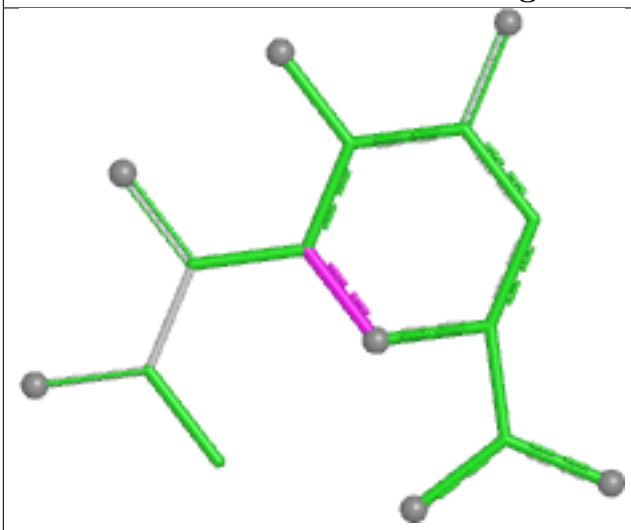


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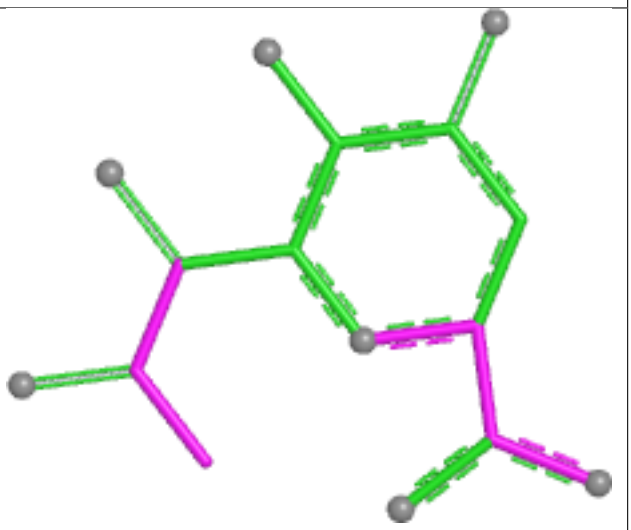


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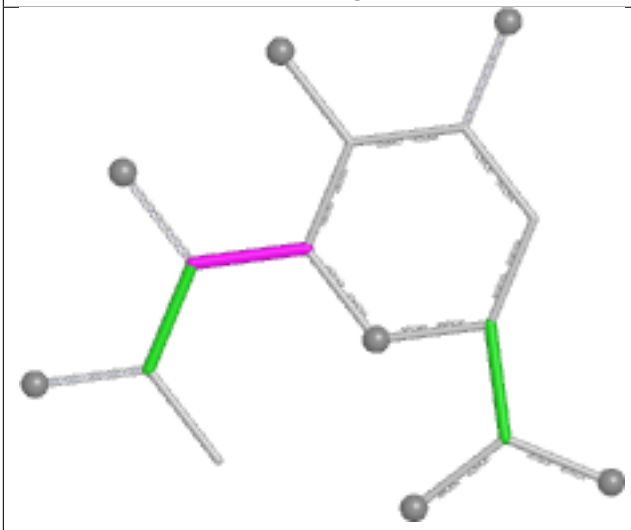
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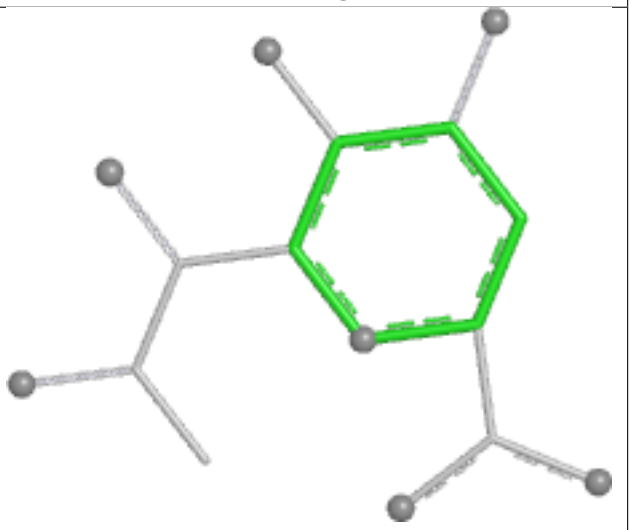
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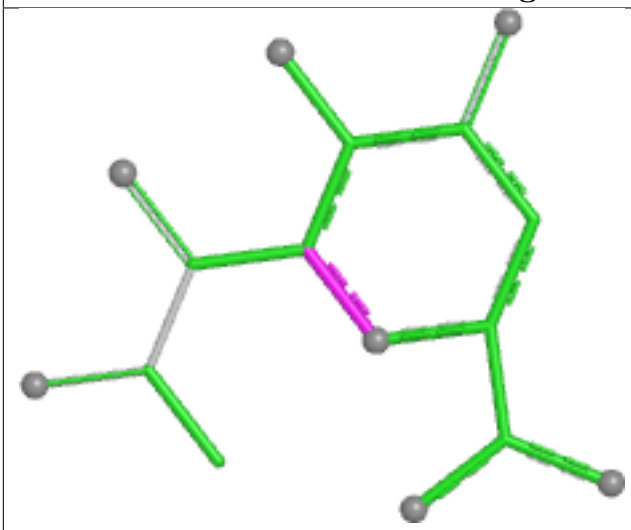


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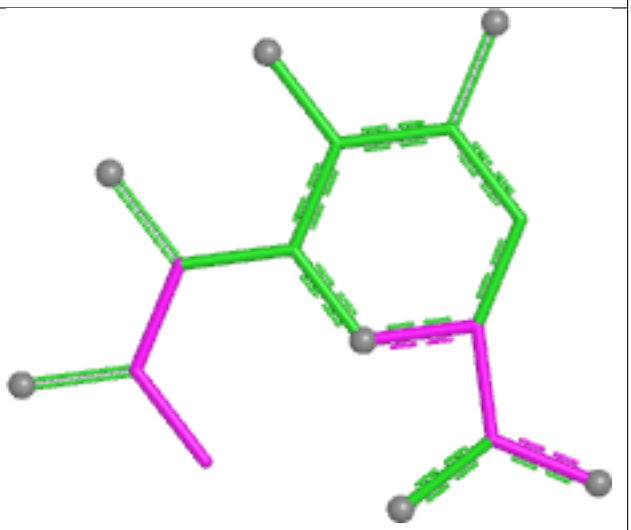


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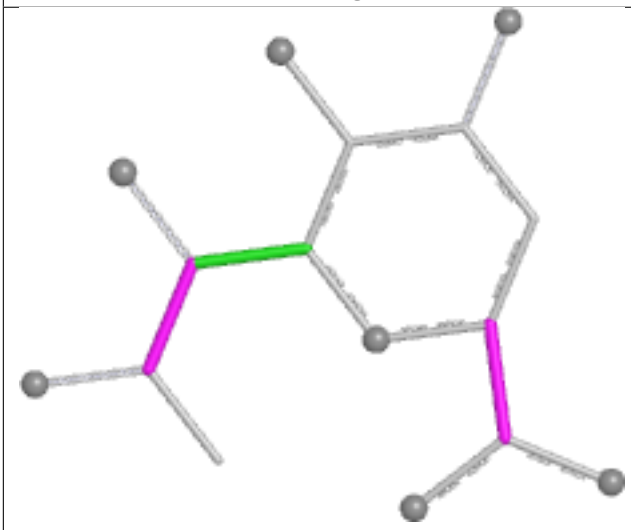
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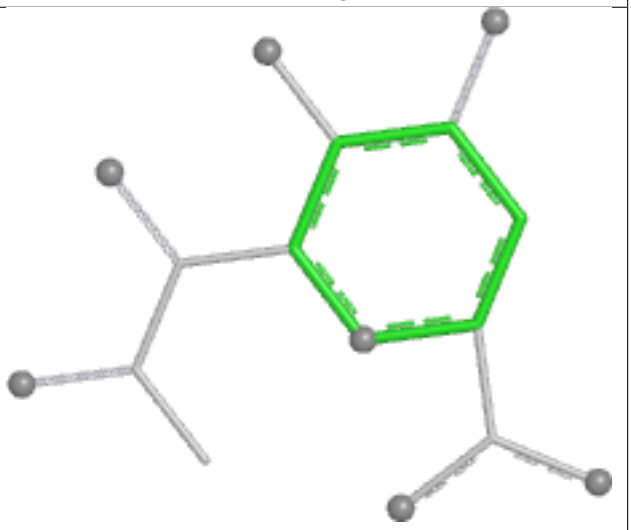
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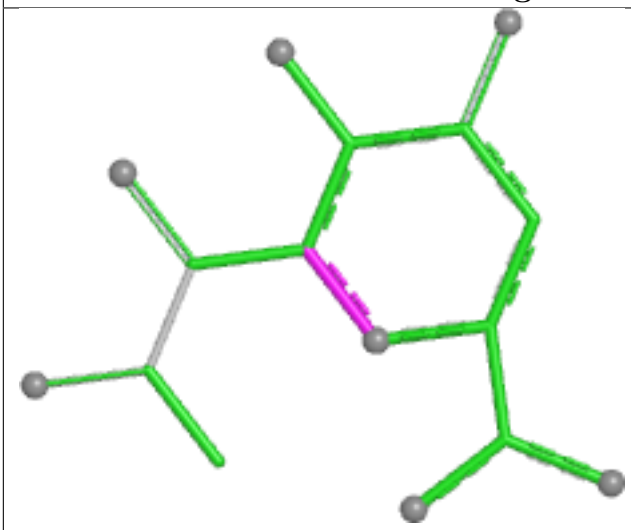


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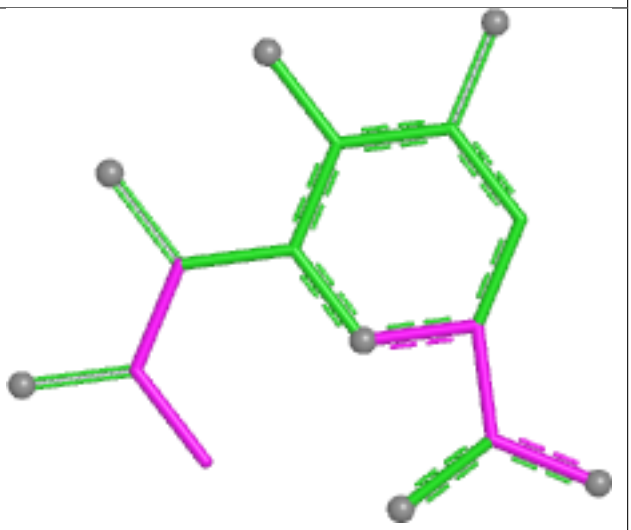


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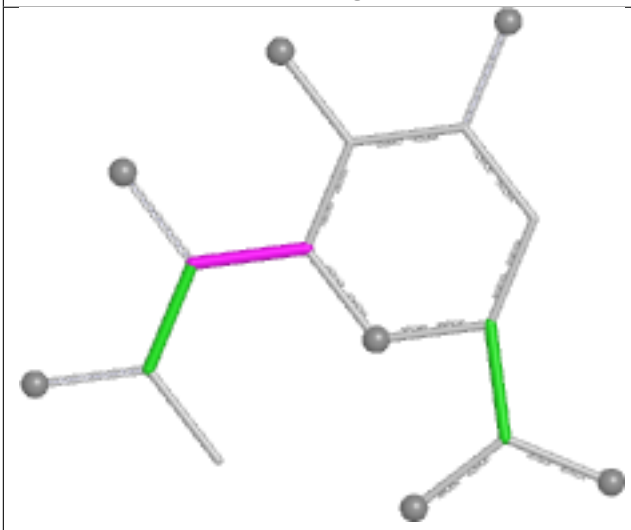
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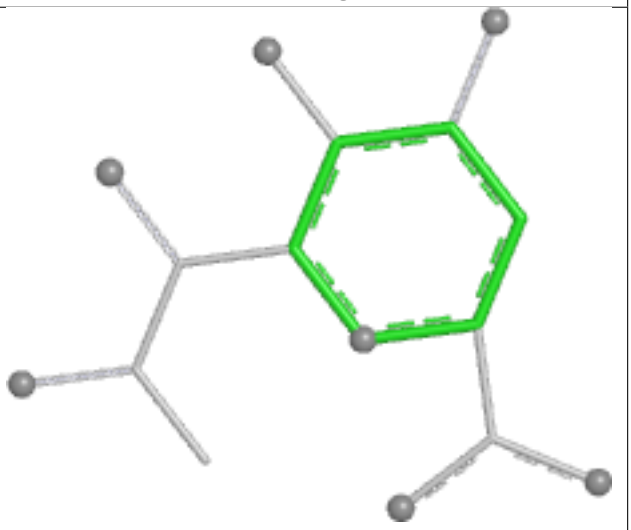
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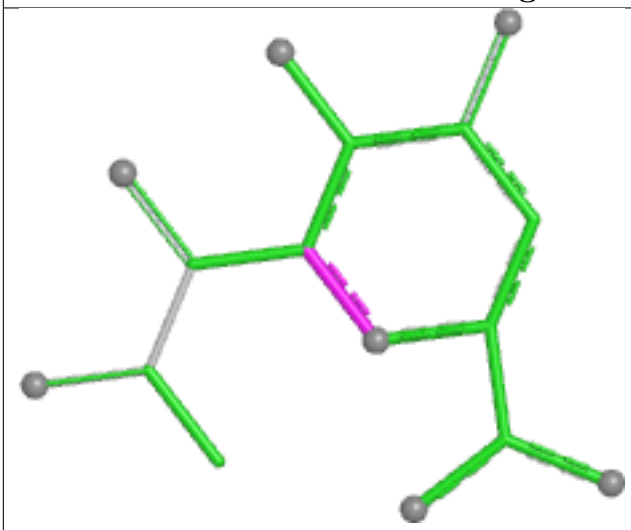


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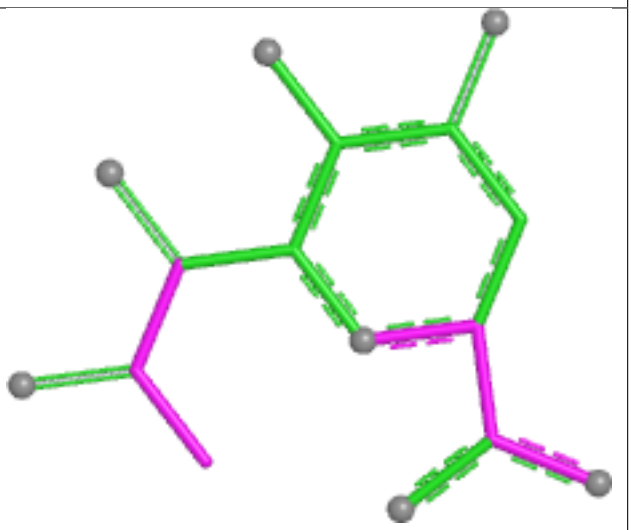


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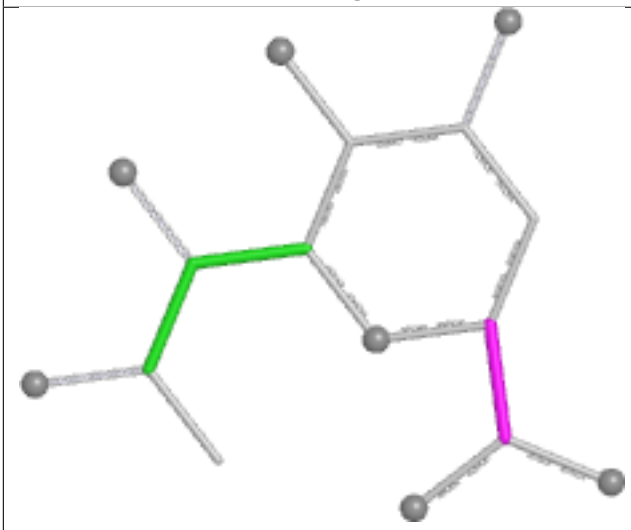
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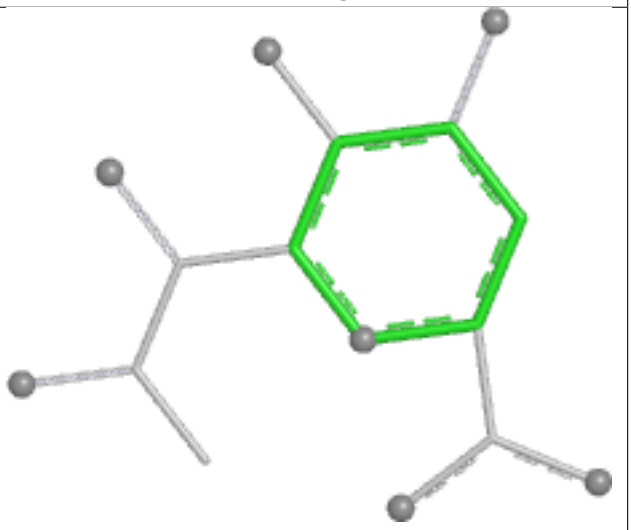
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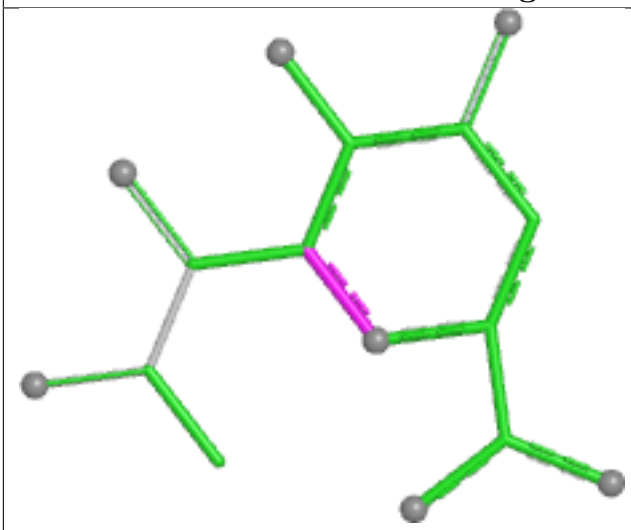


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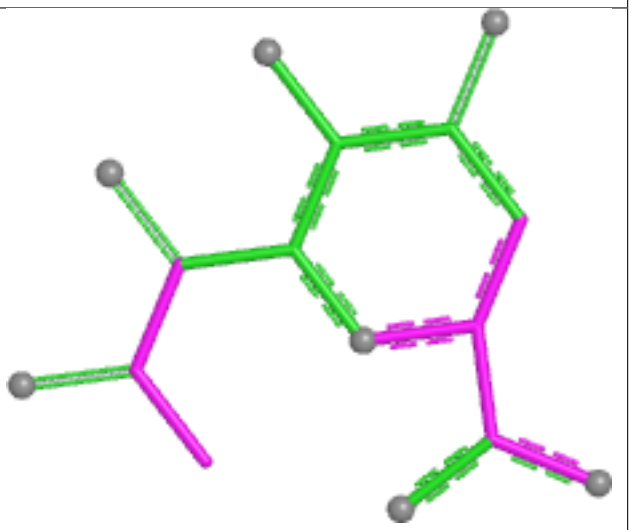


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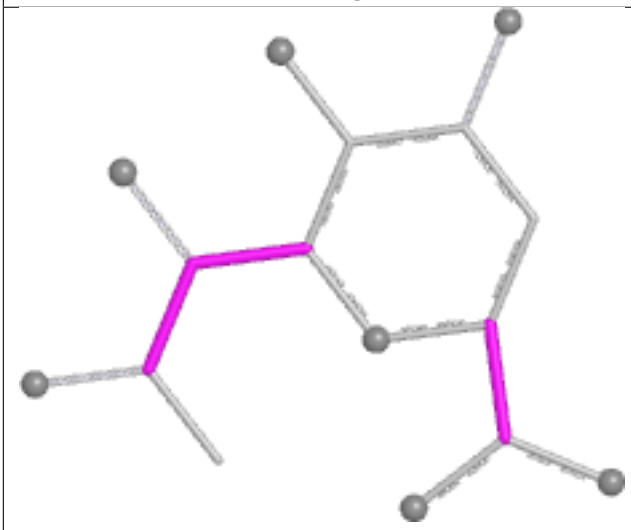
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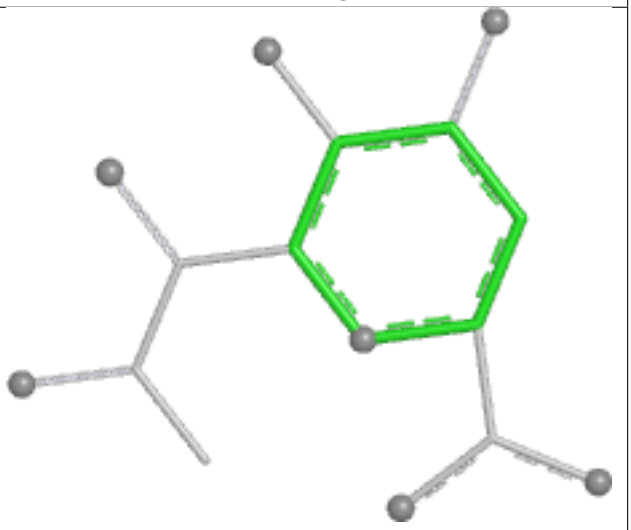
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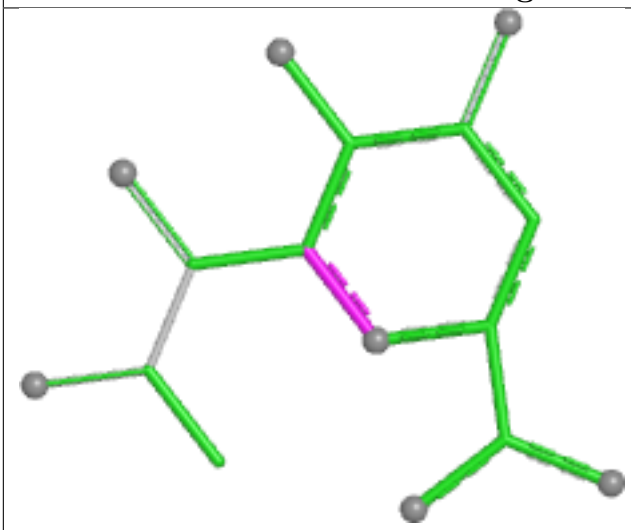


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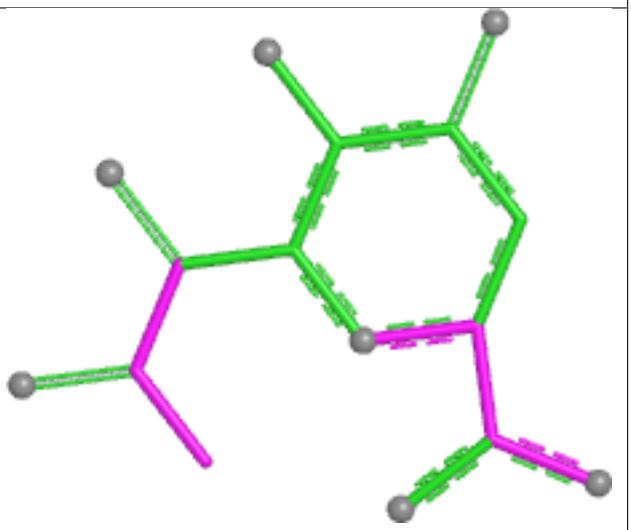


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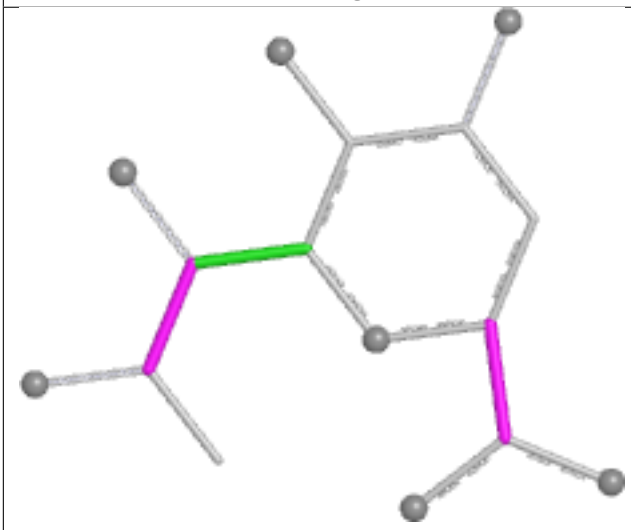
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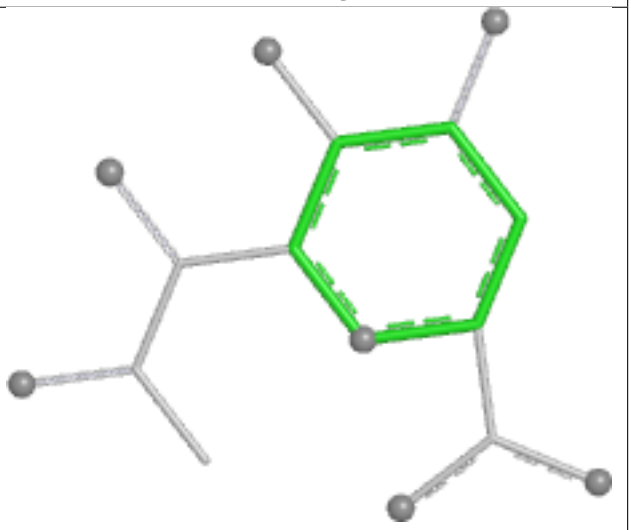
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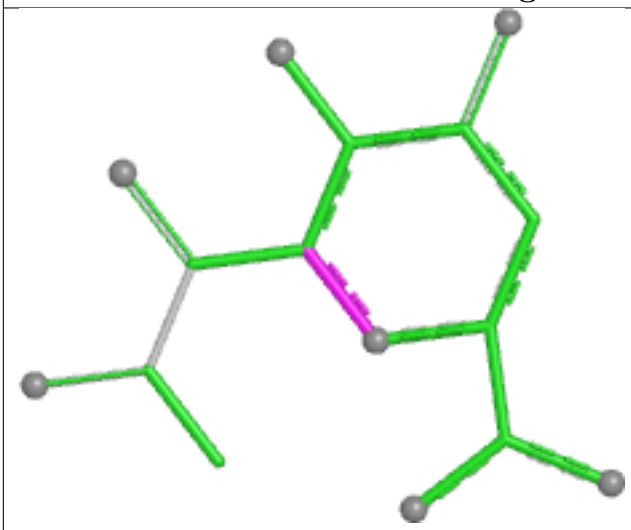


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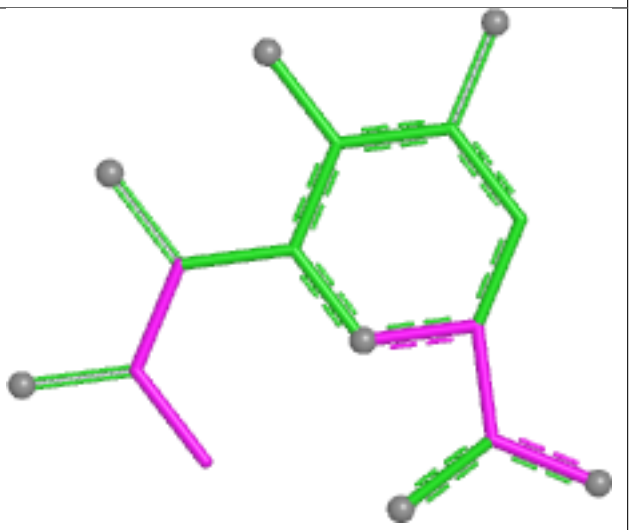


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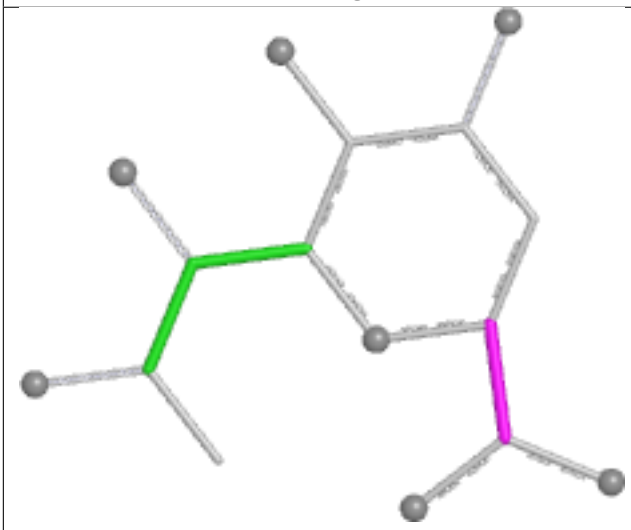
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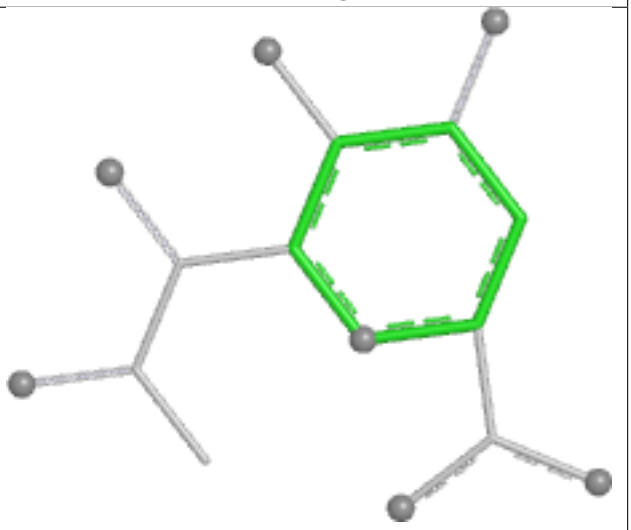
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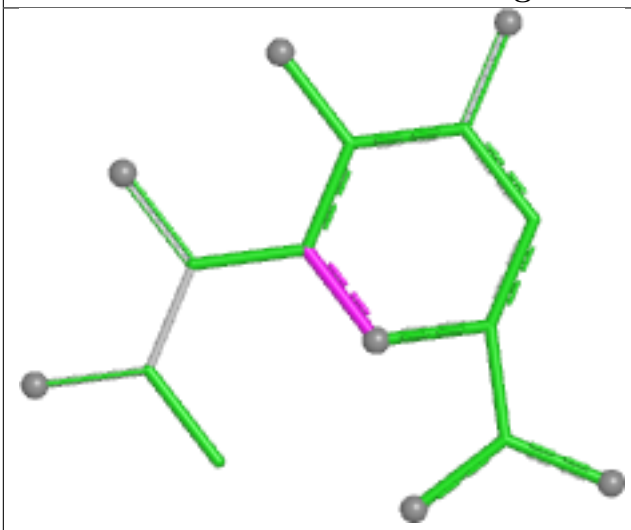


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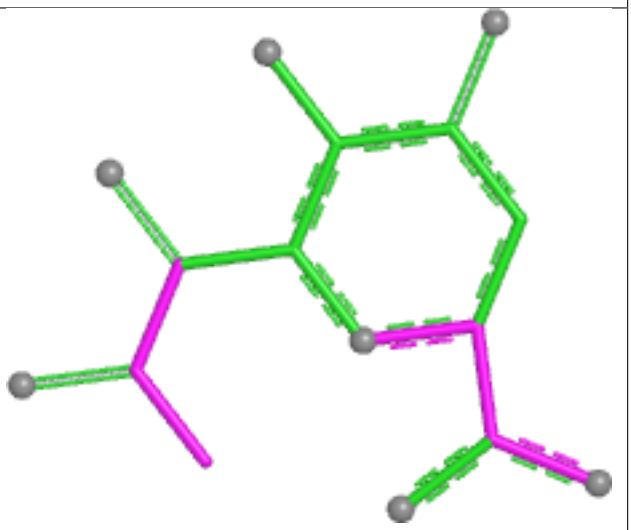


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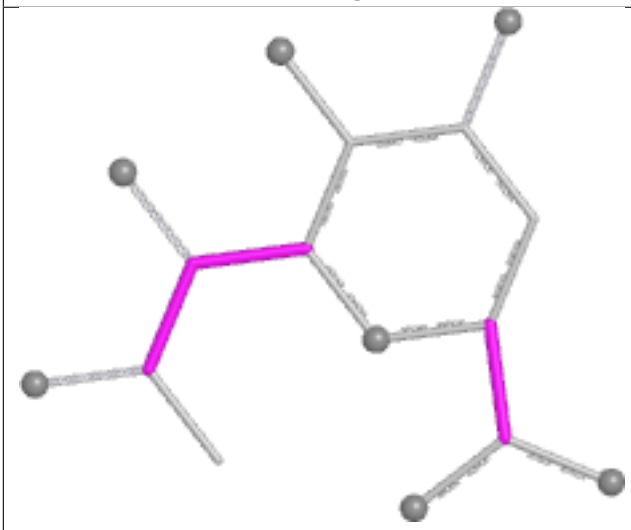
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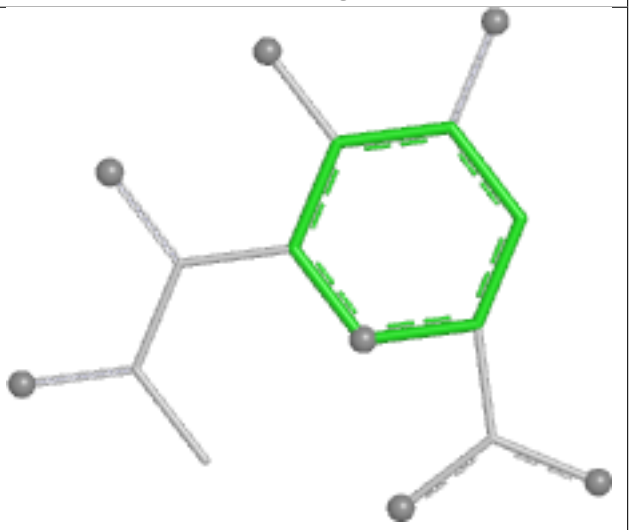
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Bond angles

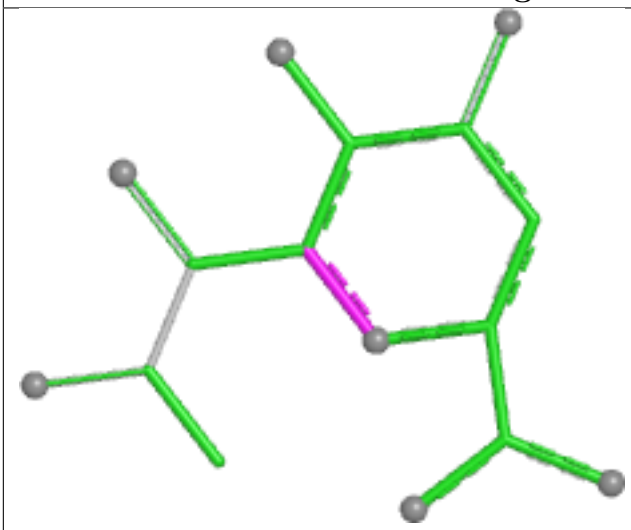


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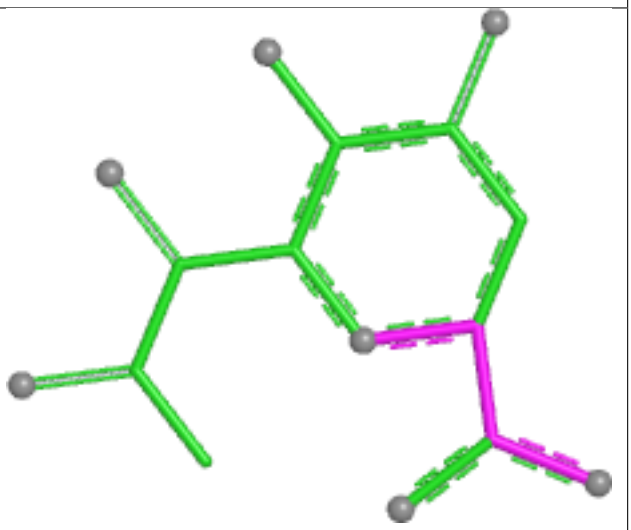


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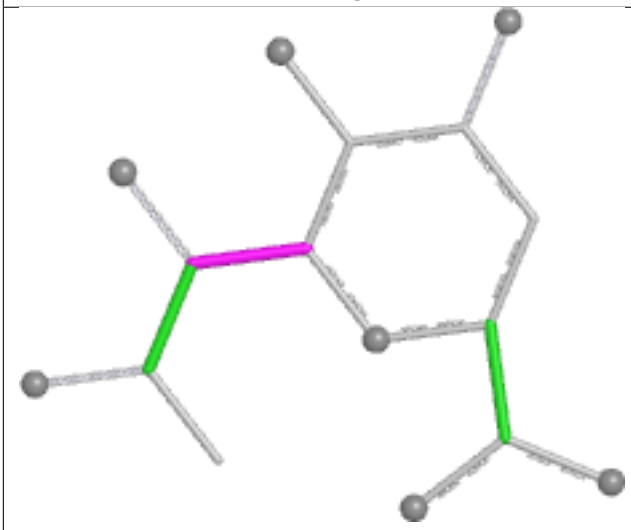
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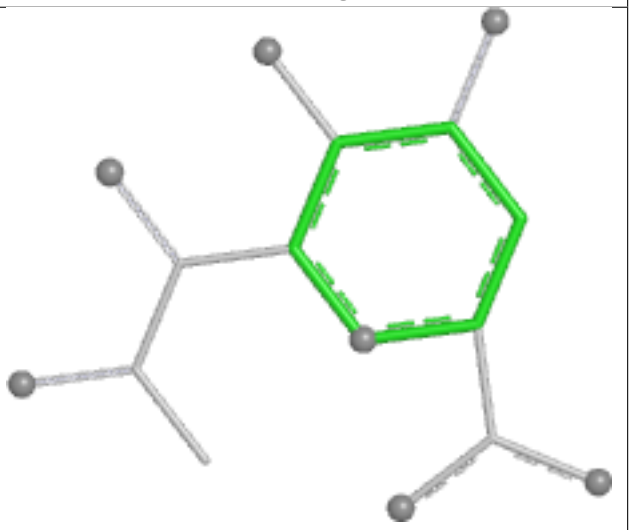
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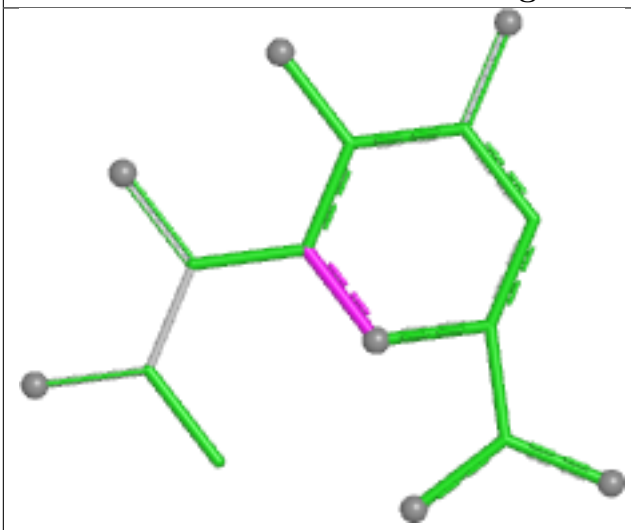


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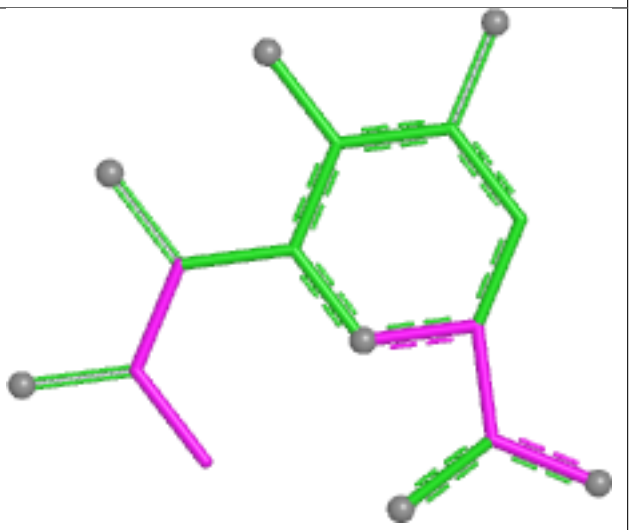


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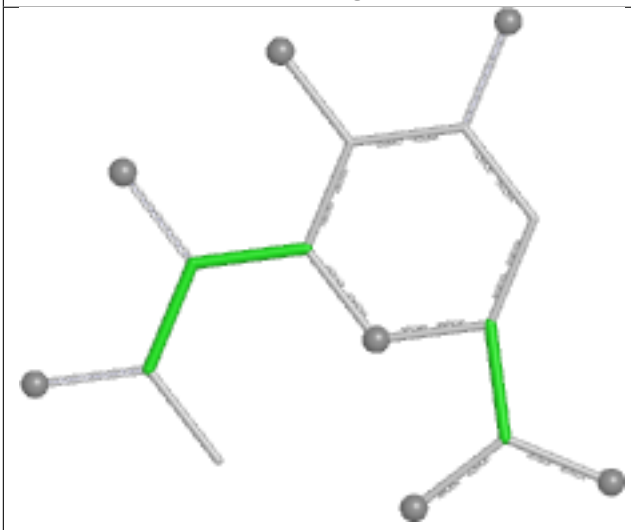
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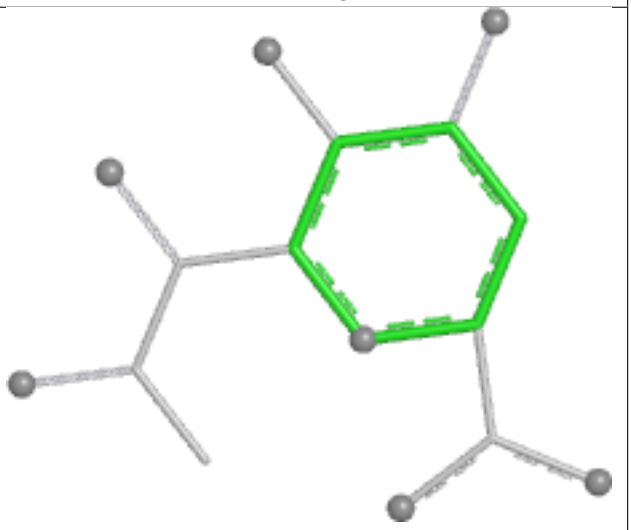
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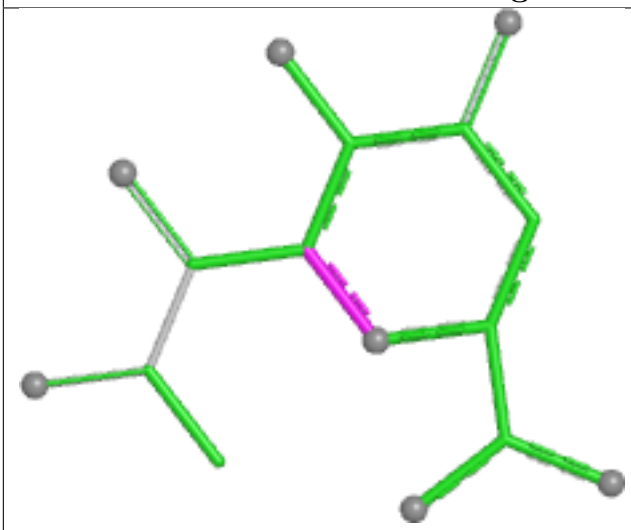


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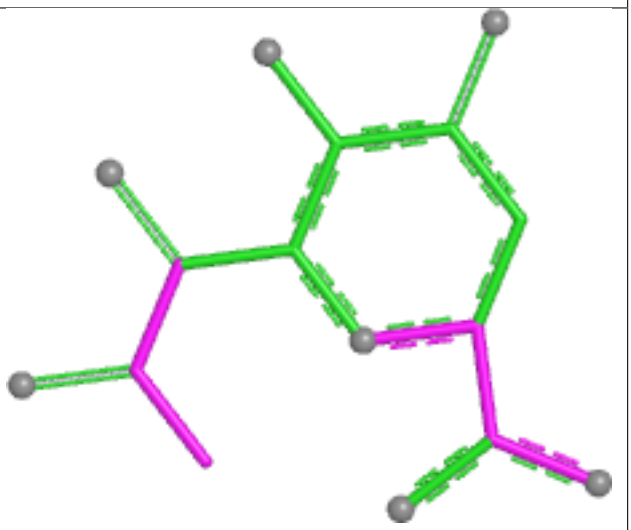


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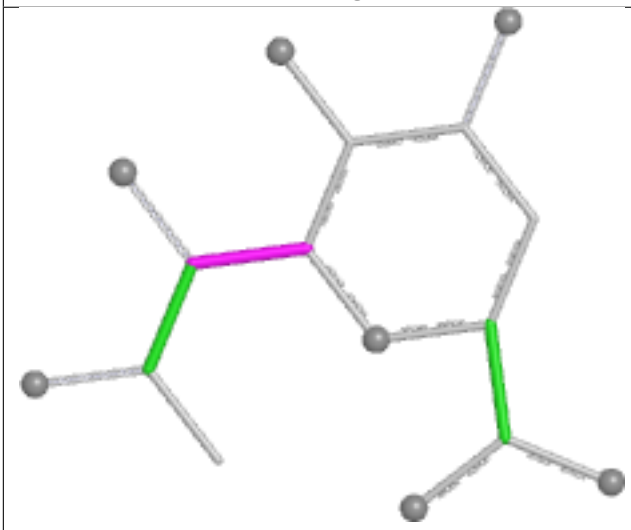
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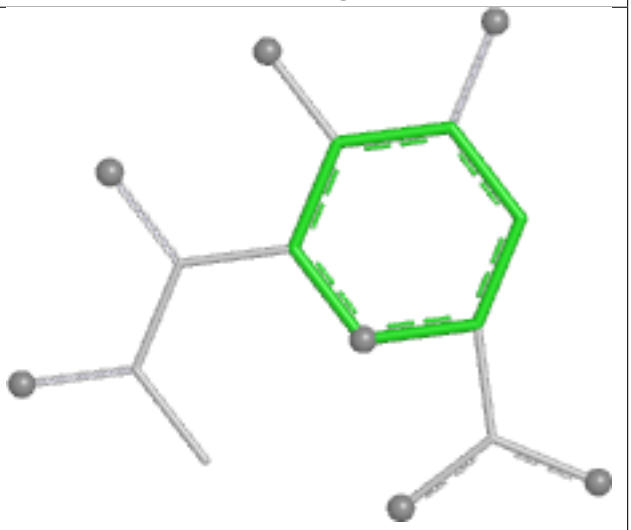
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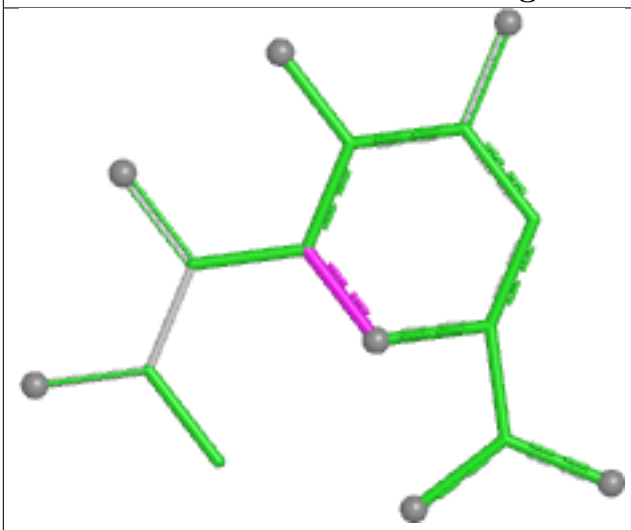


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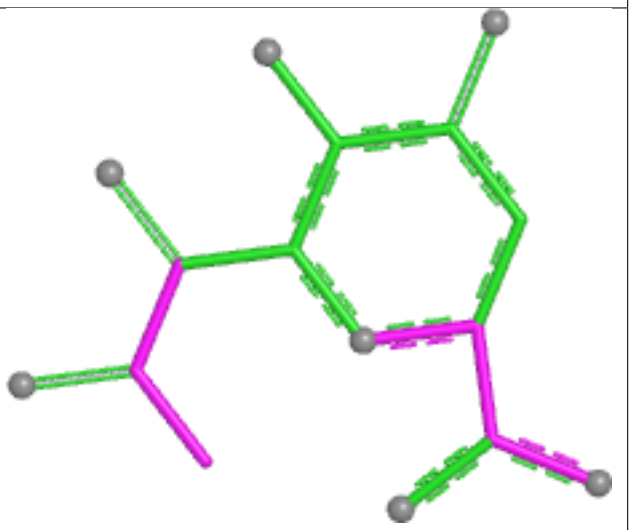


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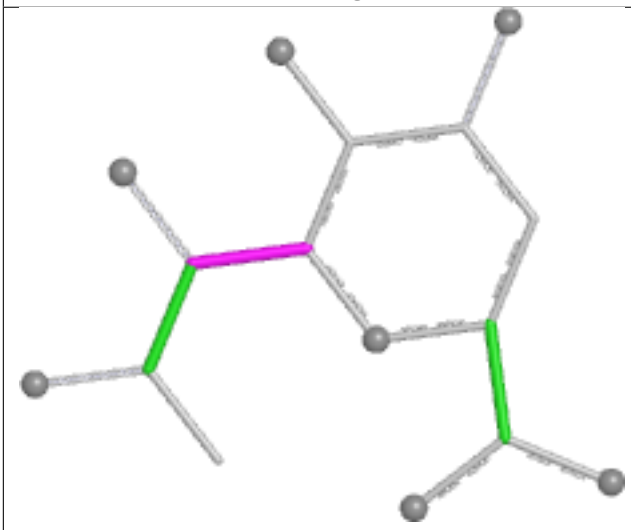
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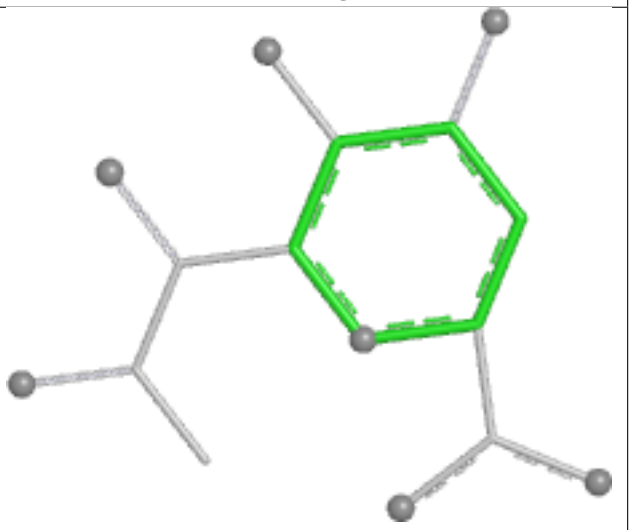
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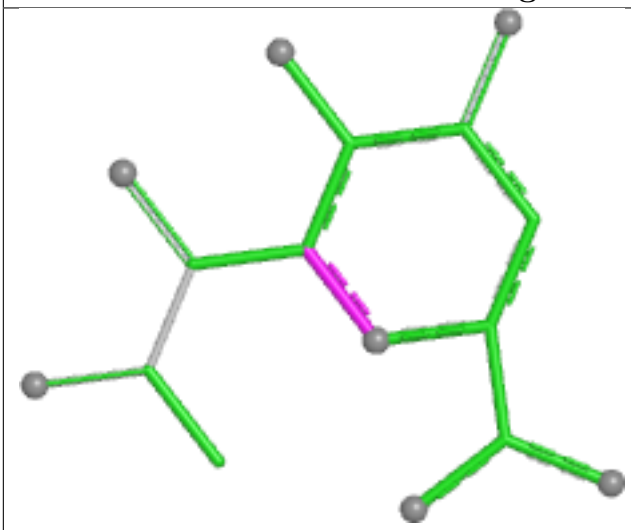


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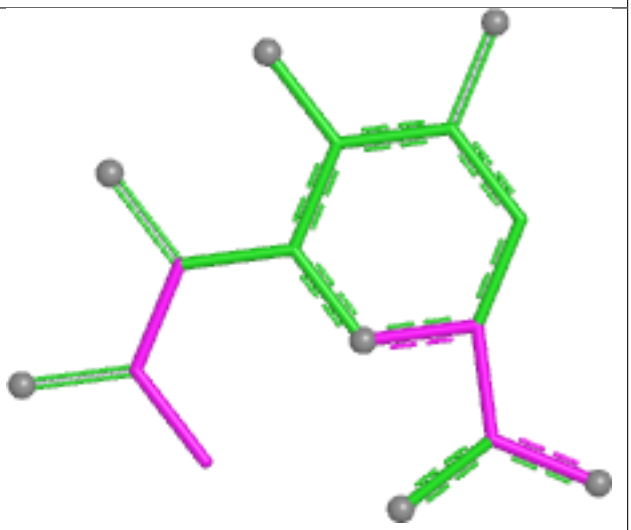


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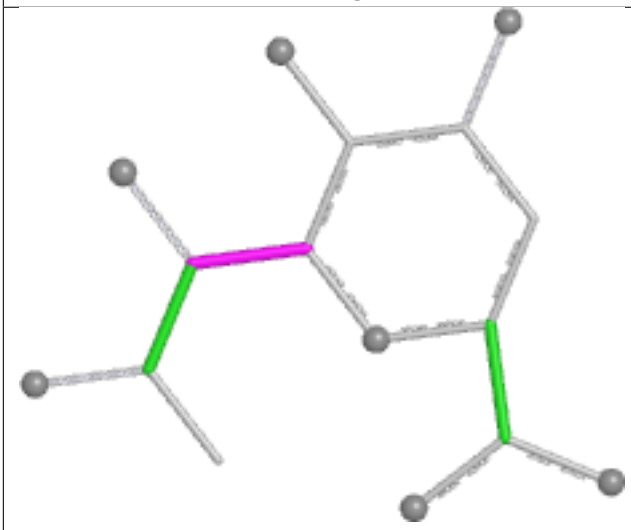
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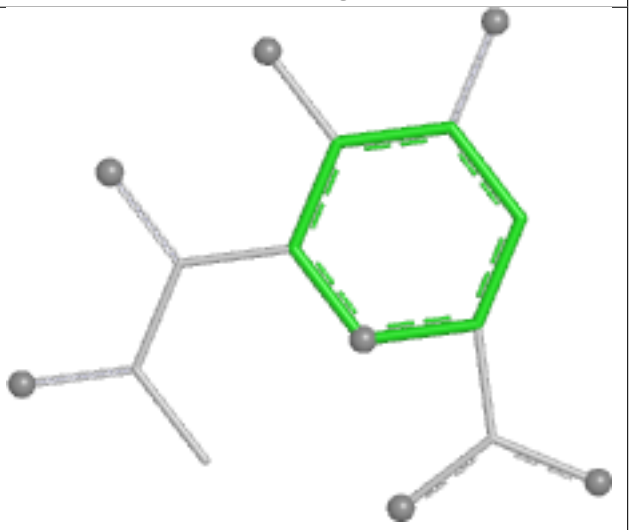
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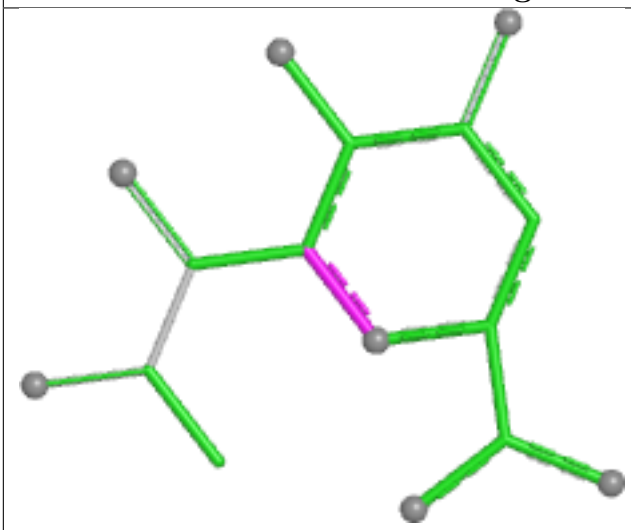


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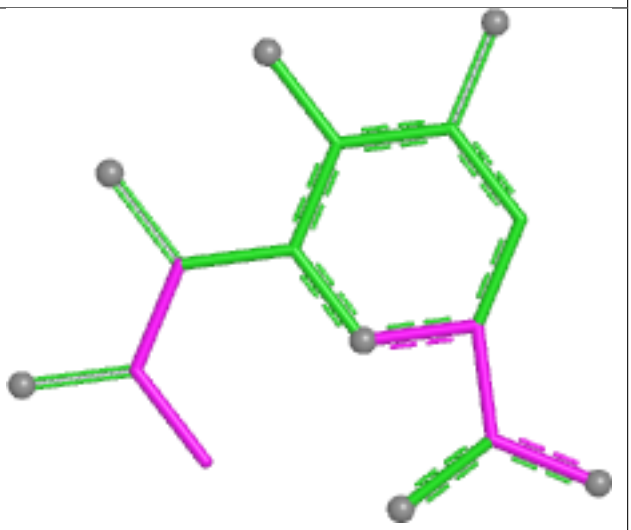


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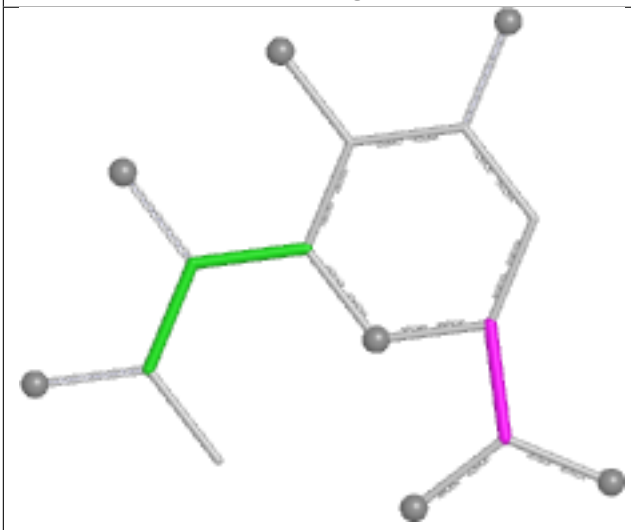
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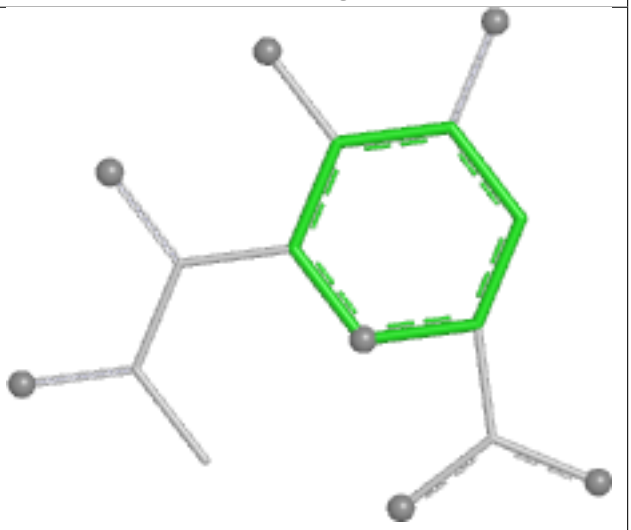
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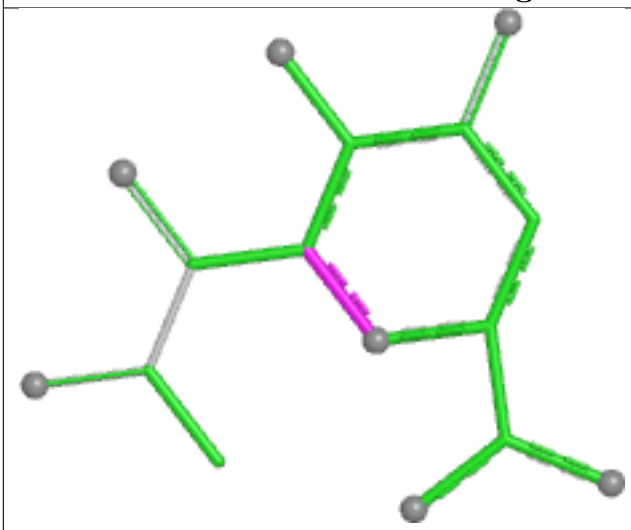


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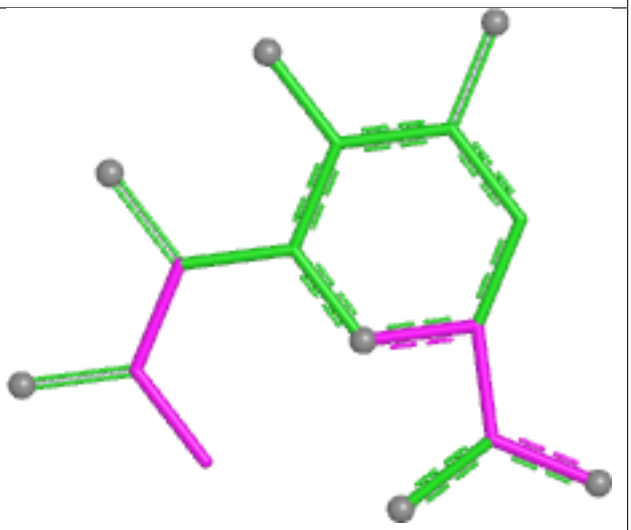


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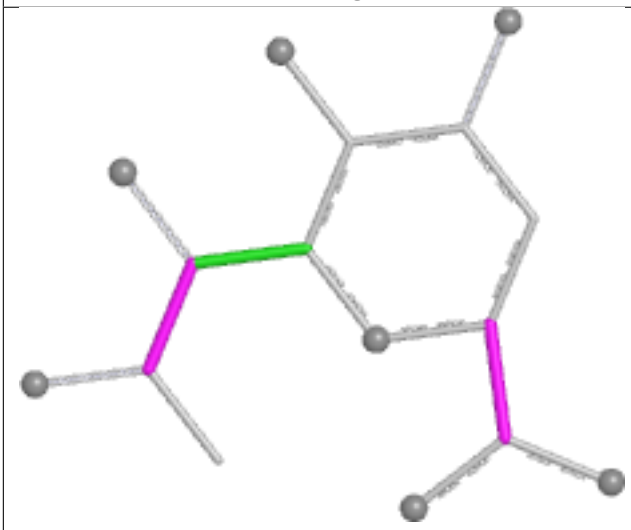
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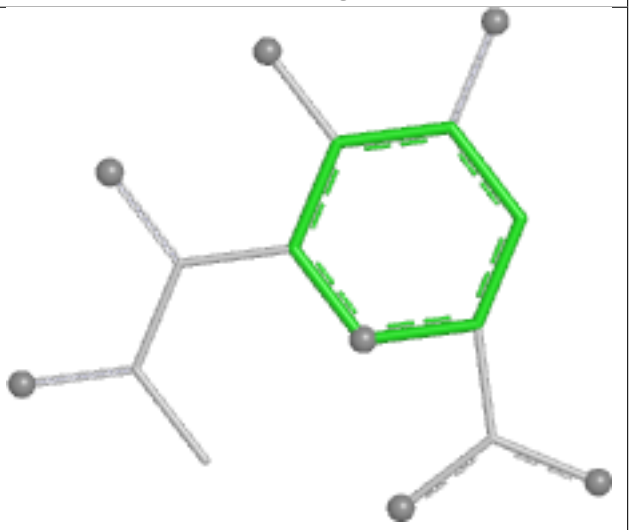
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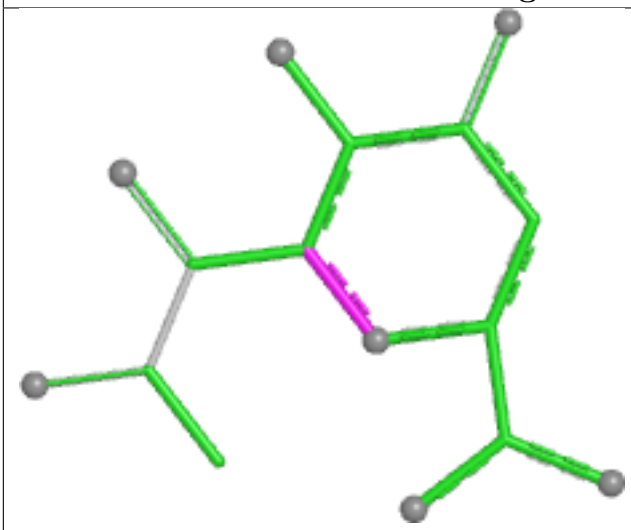


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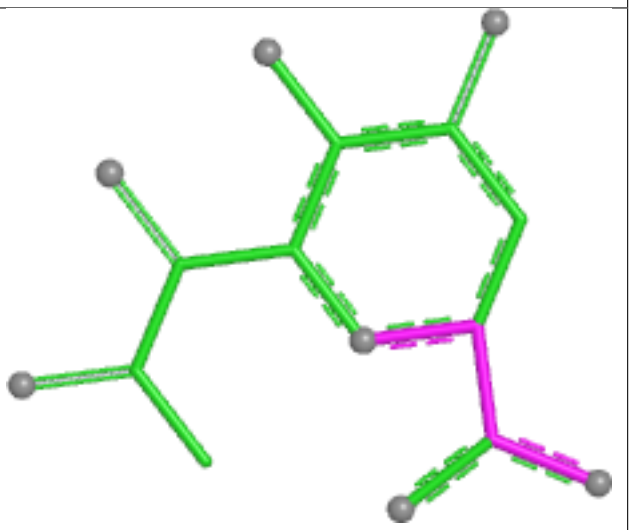


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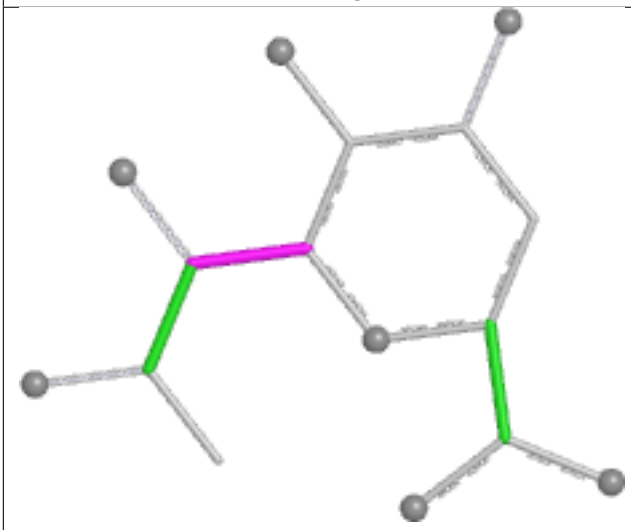
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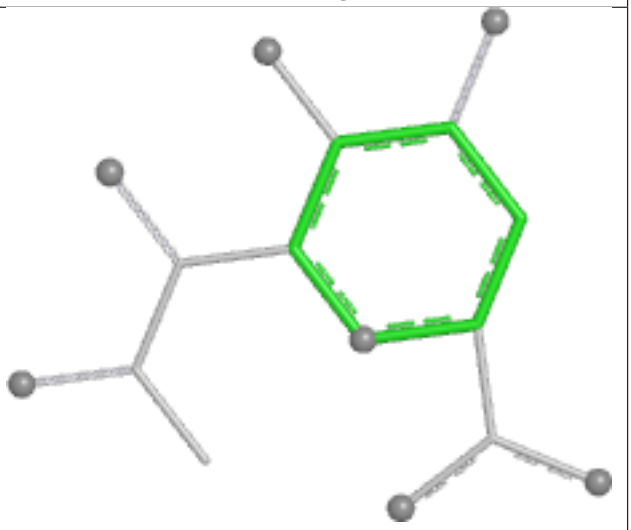
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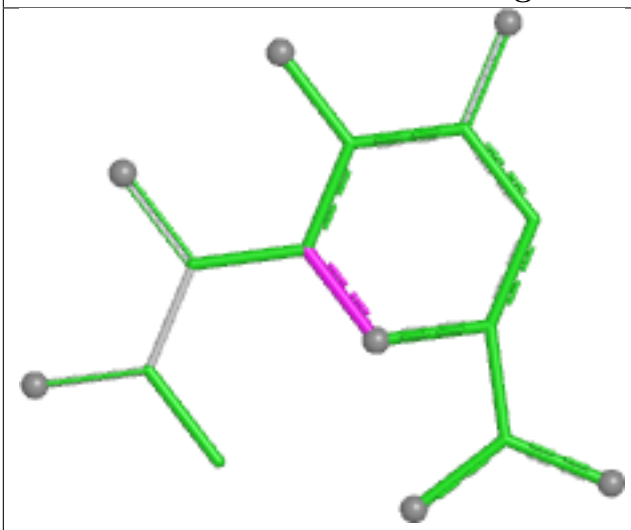


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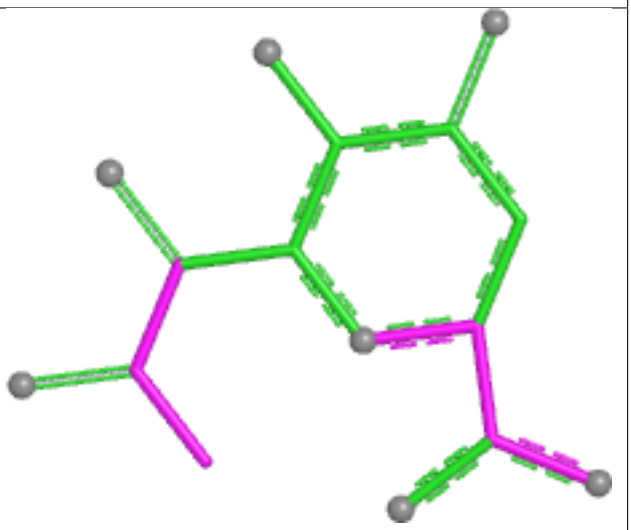


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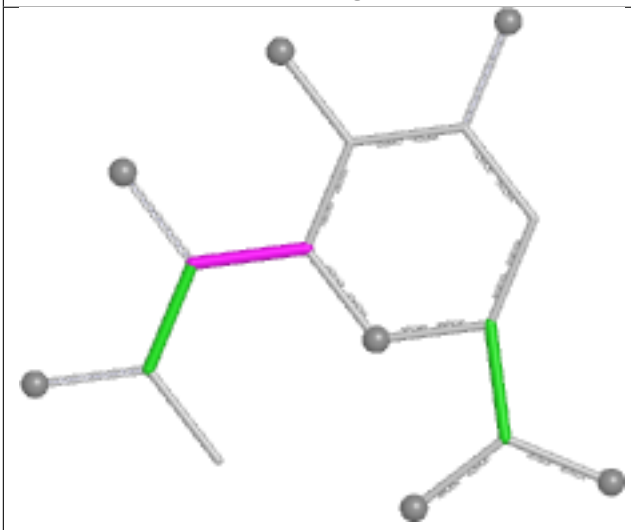
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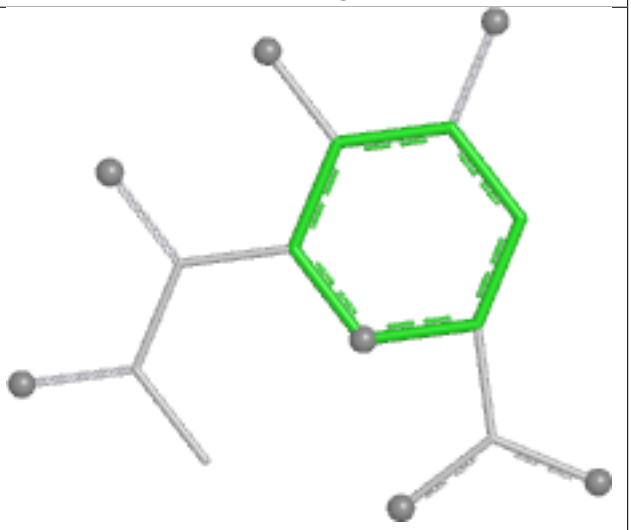
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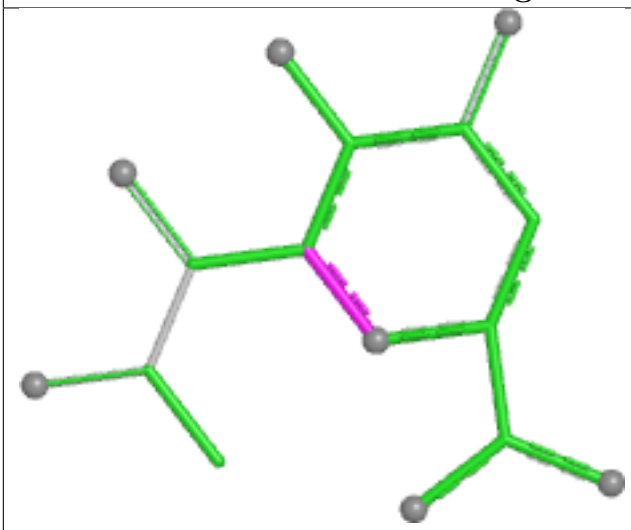


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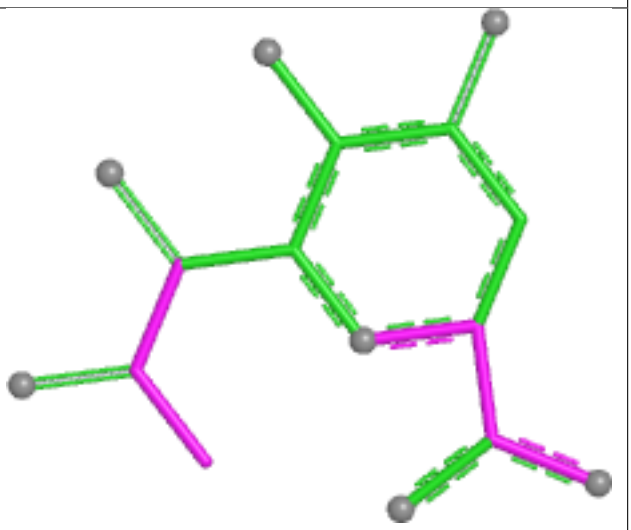


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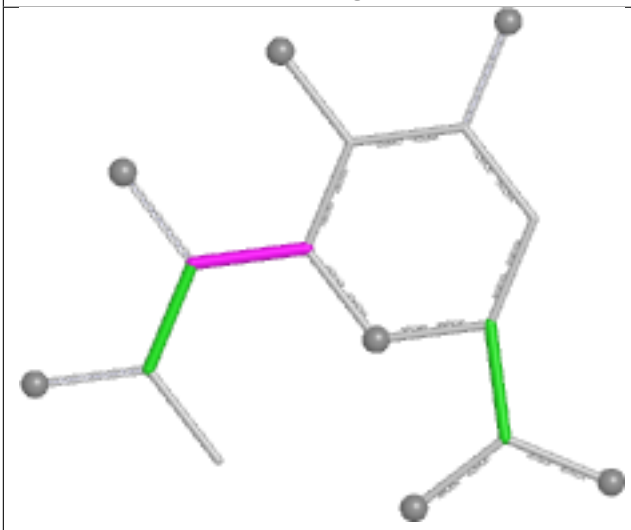
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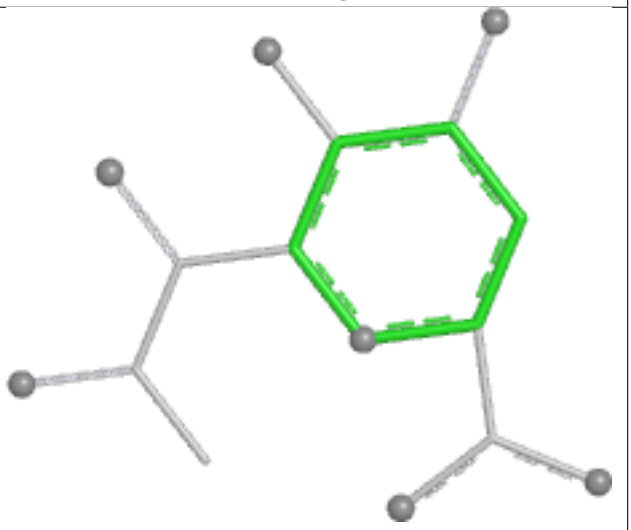
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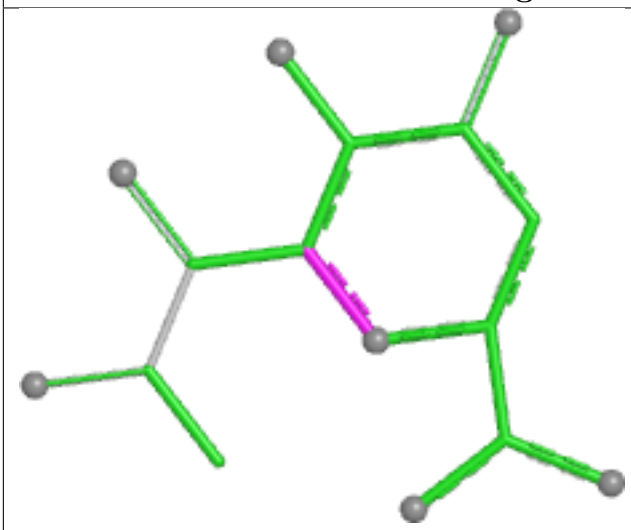


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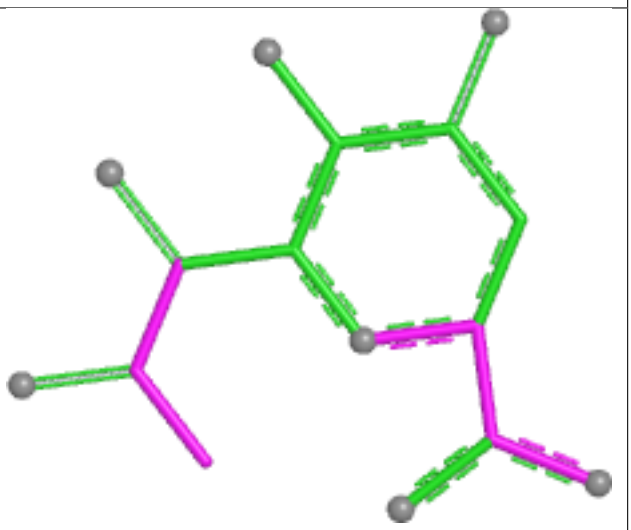


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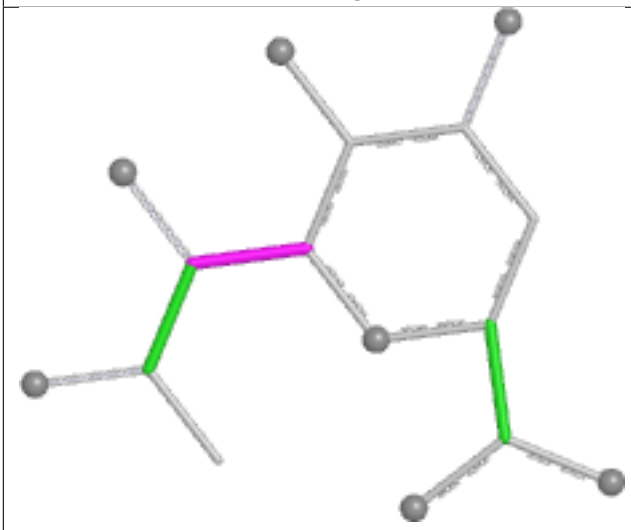
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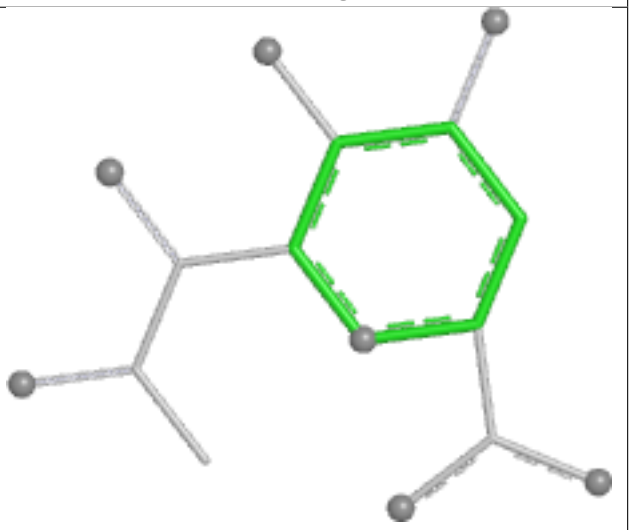
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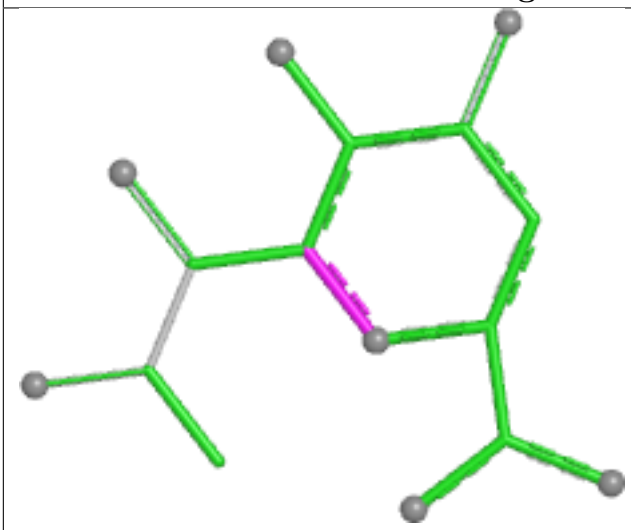


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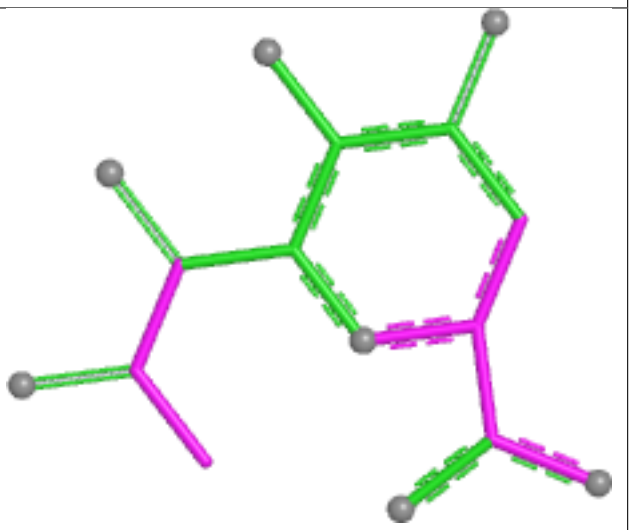


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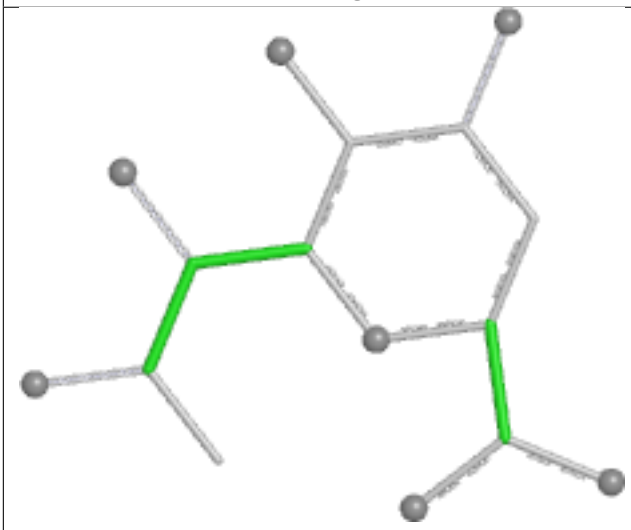
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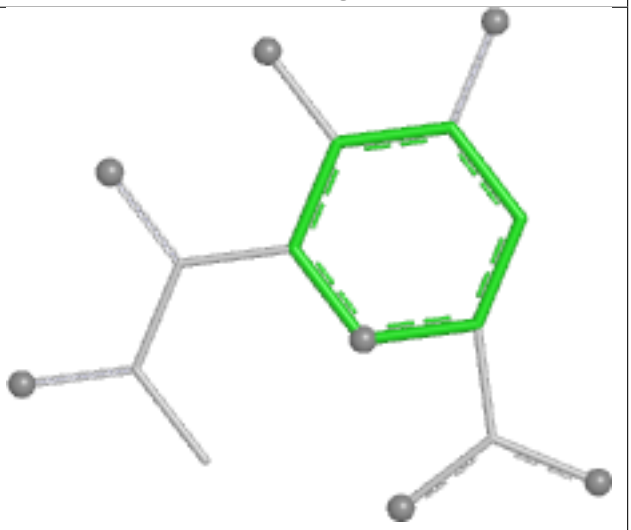
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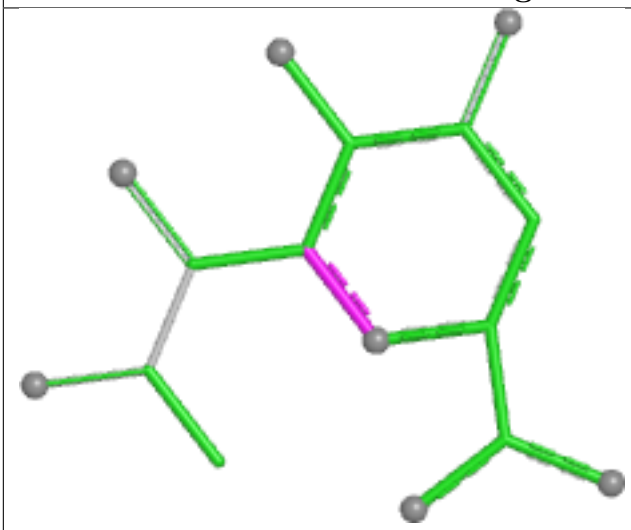


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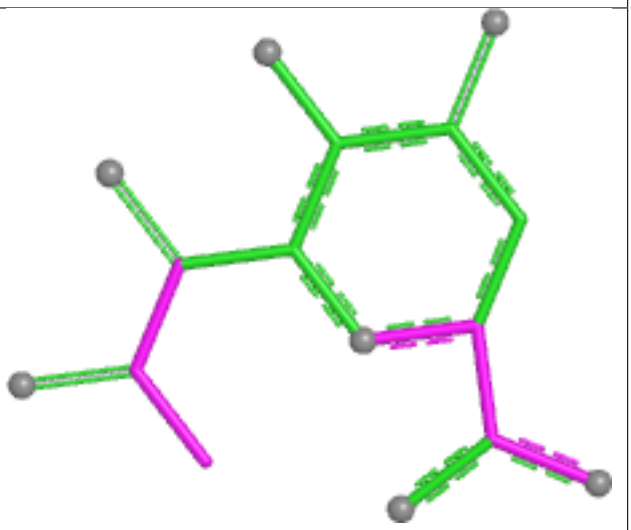


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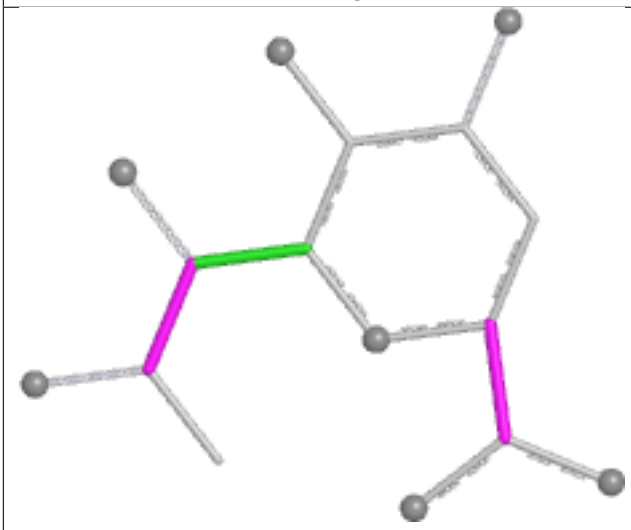
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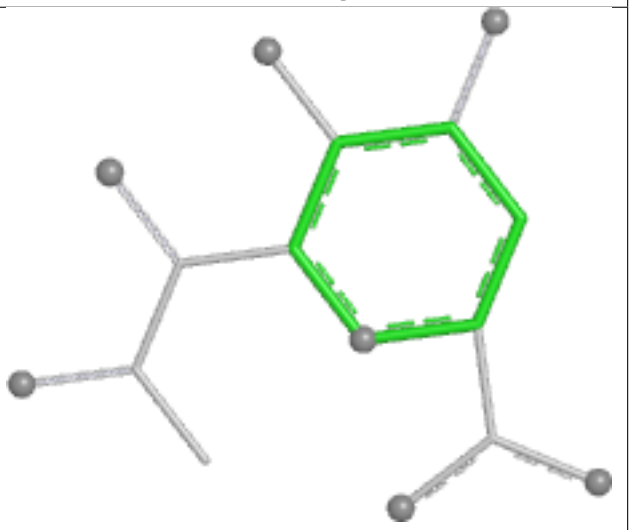
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Bond angles

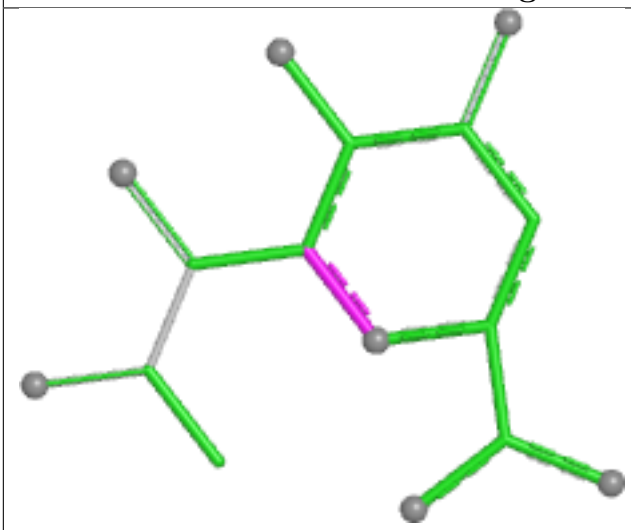


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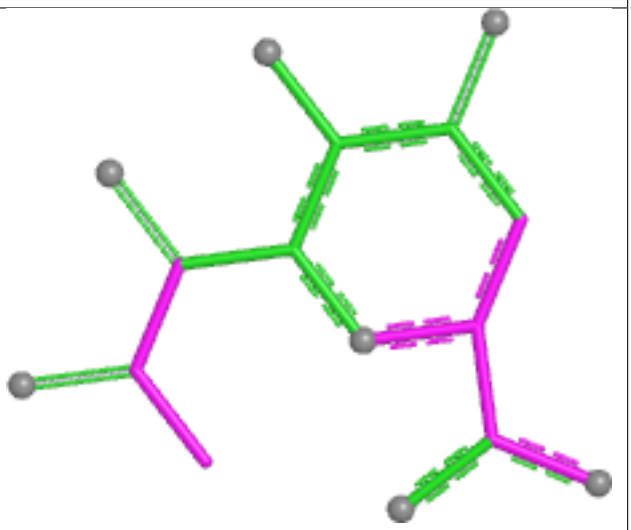


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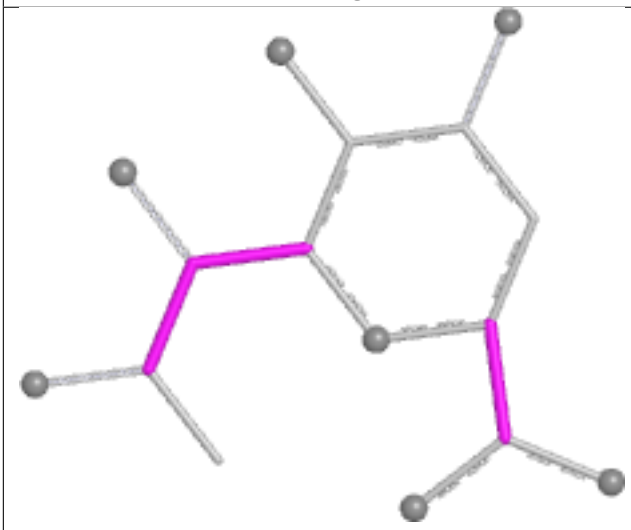
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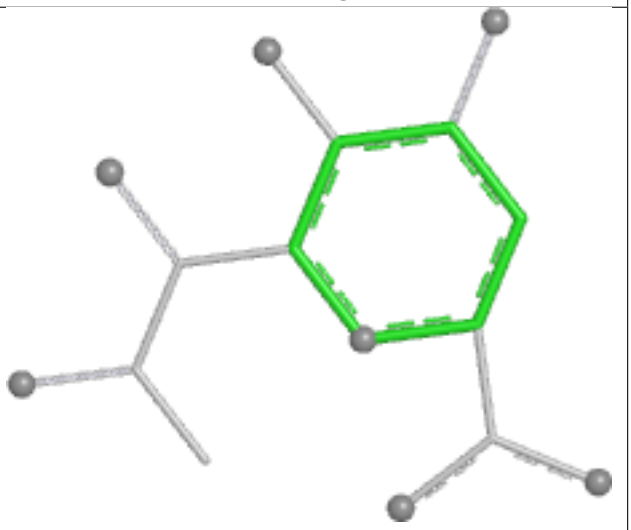
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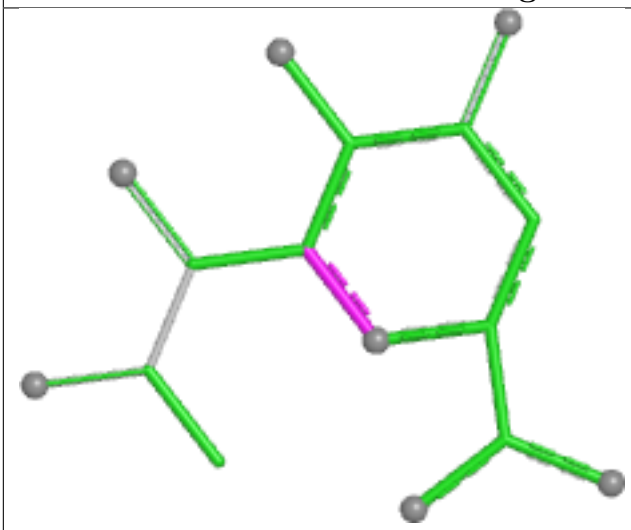


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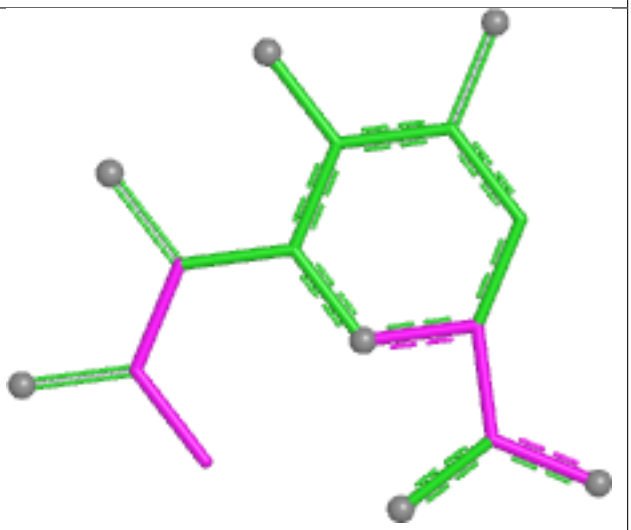


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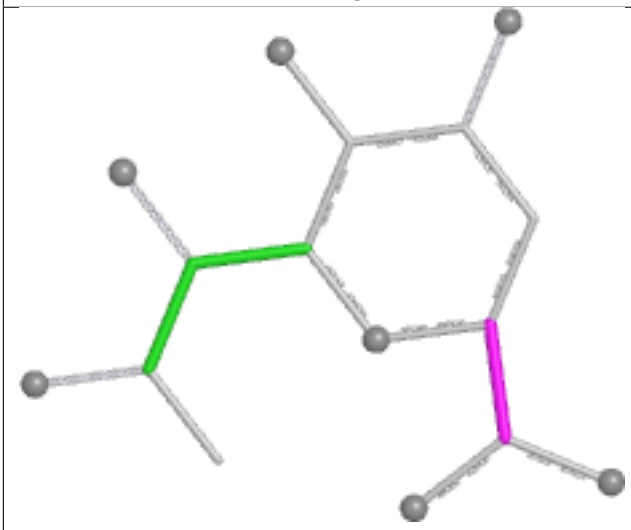
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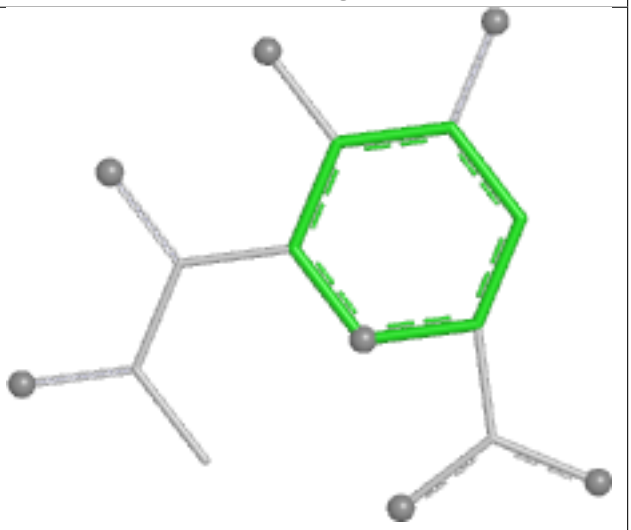
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Bond angles

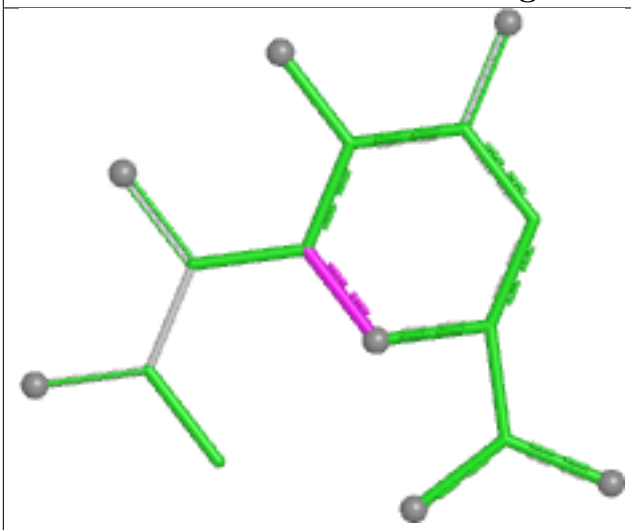


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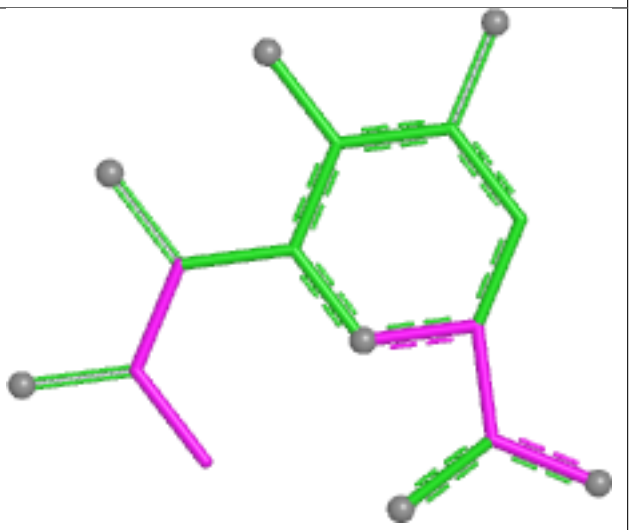


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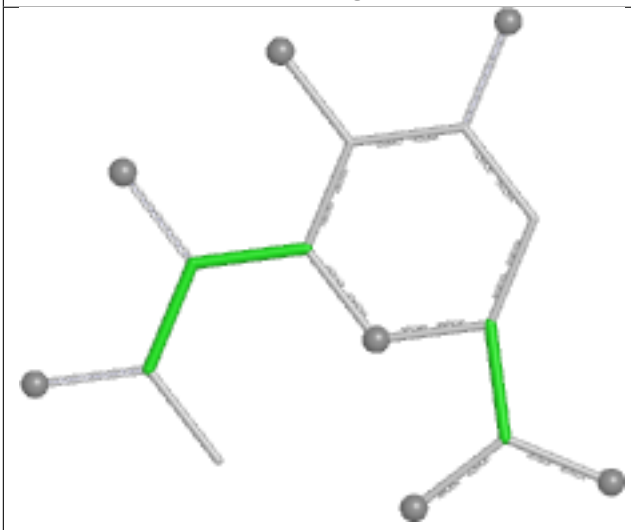
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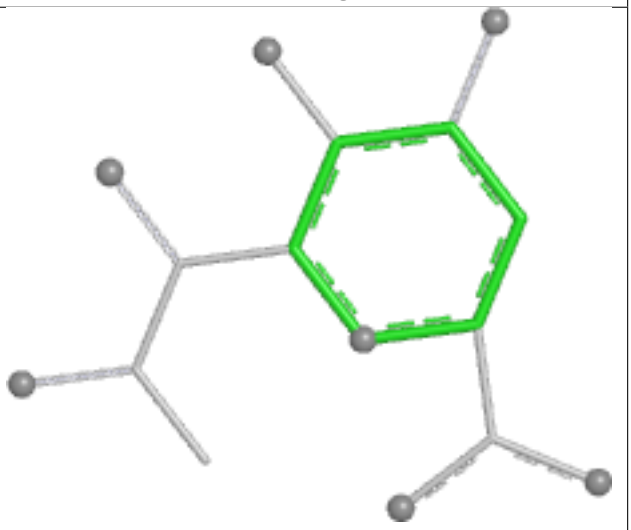
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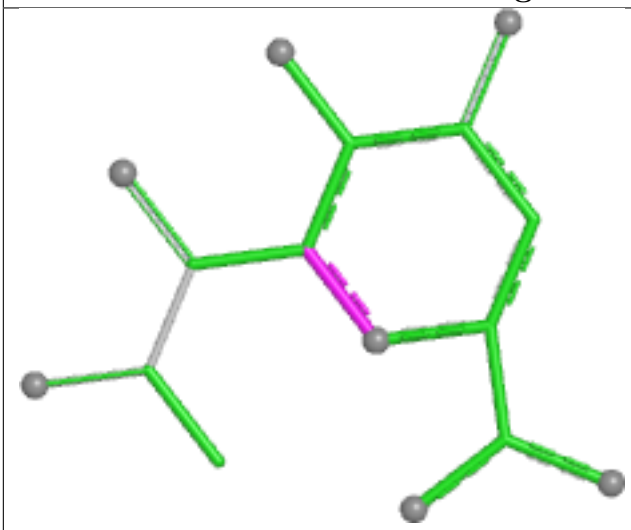


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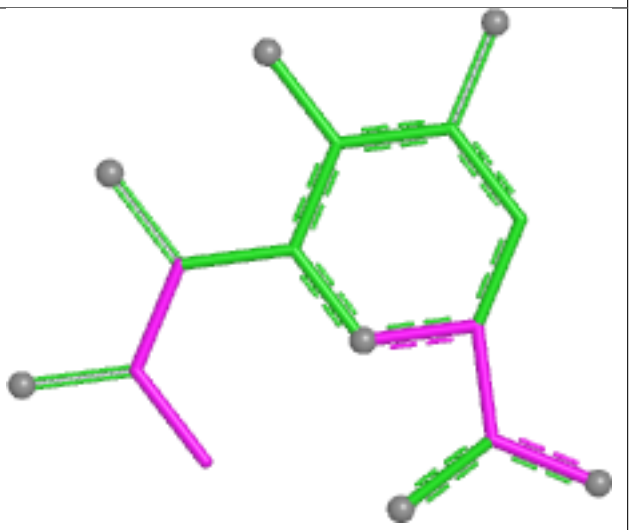


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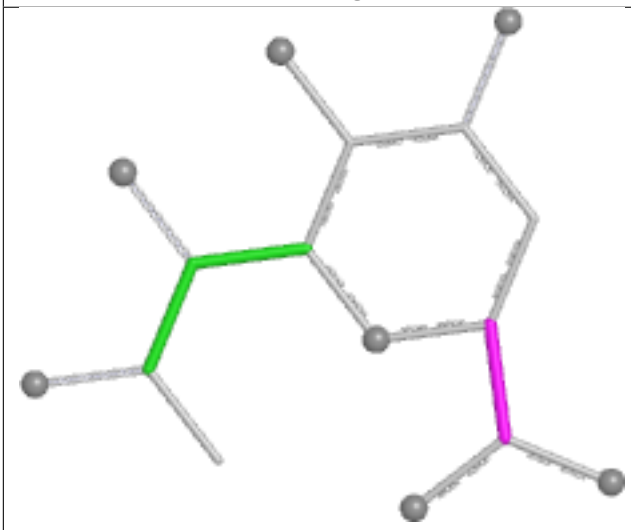
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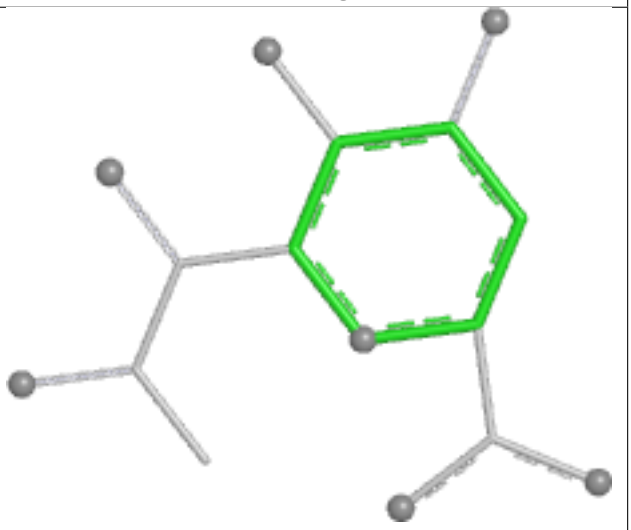
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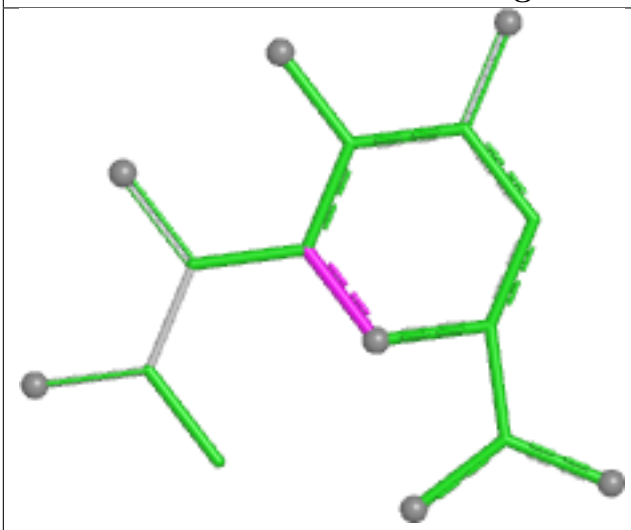


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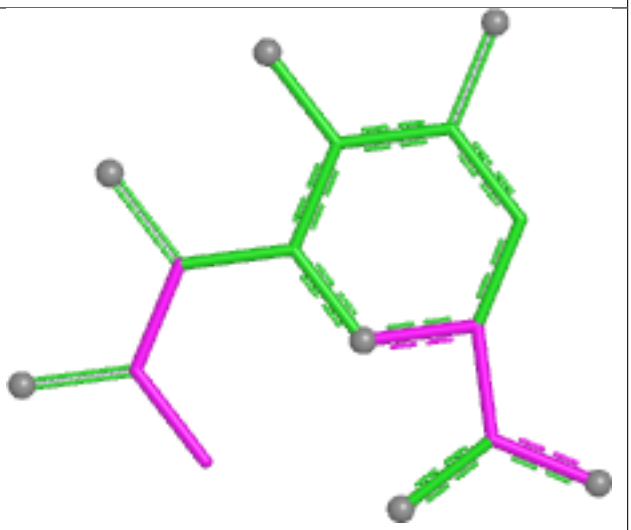


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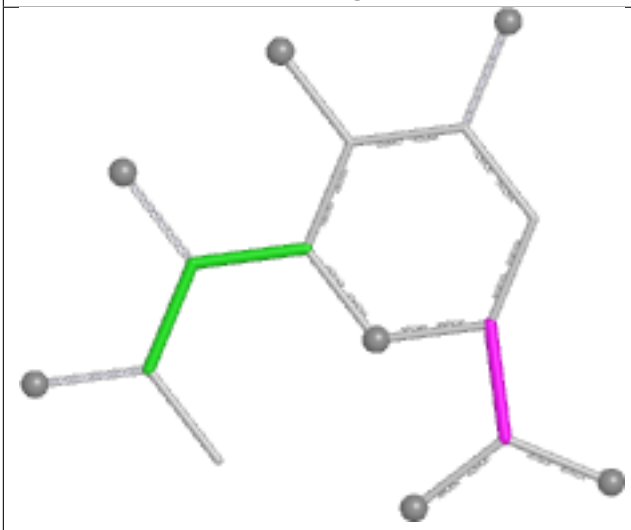
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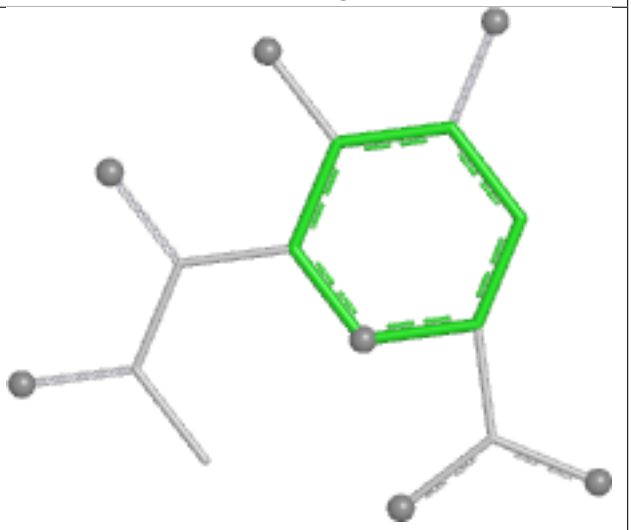
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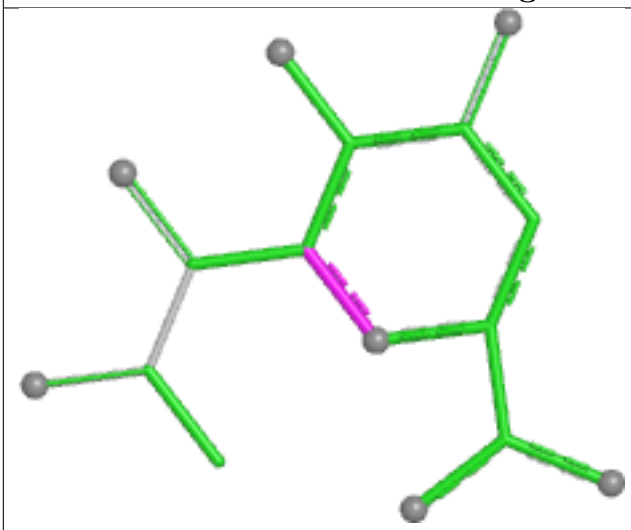


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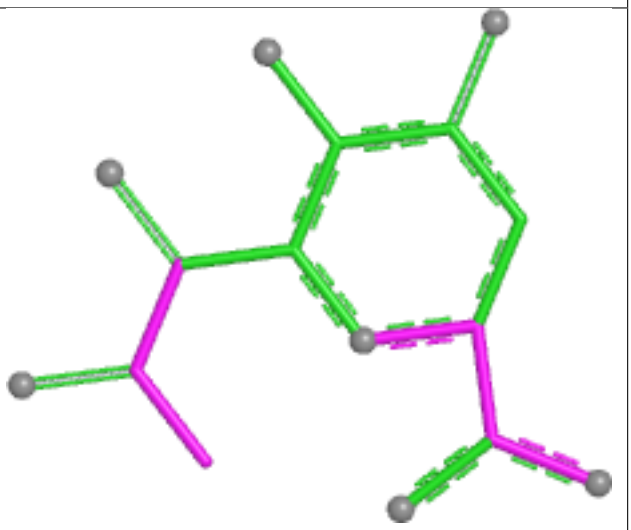


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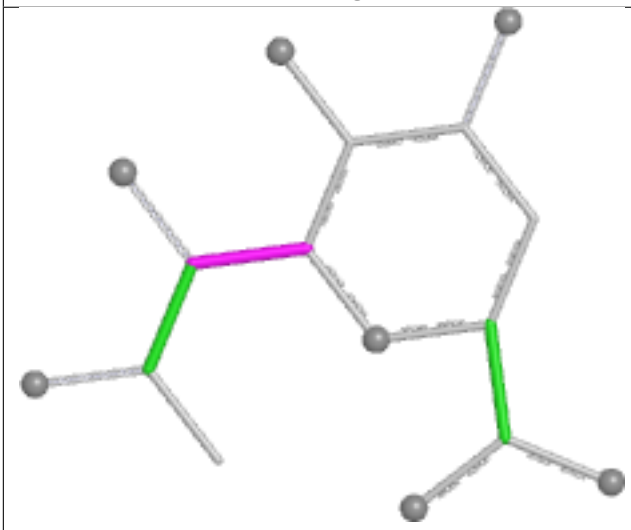
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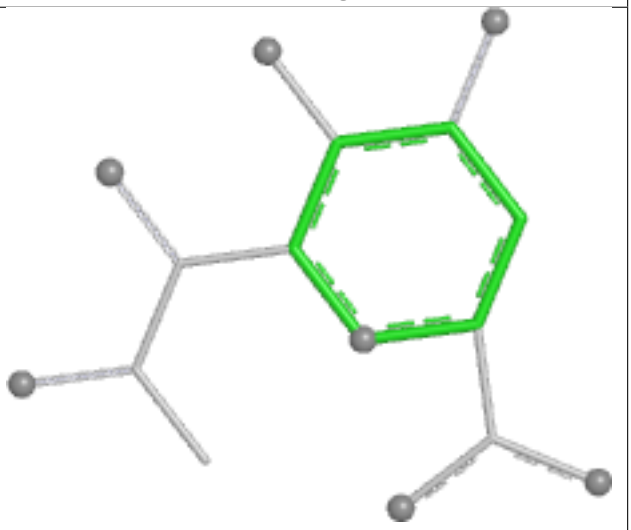
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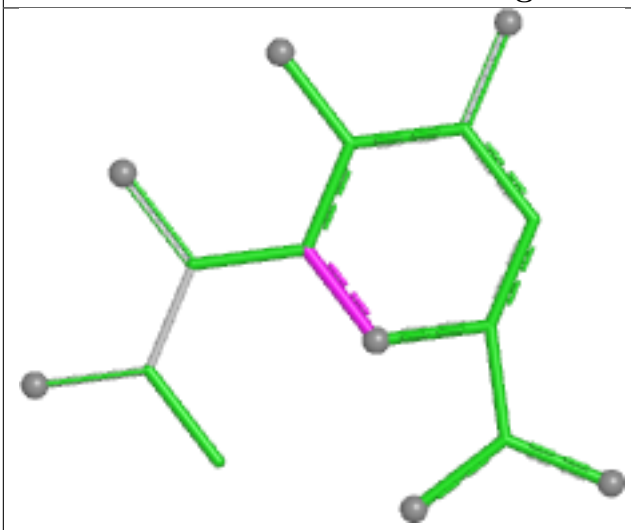


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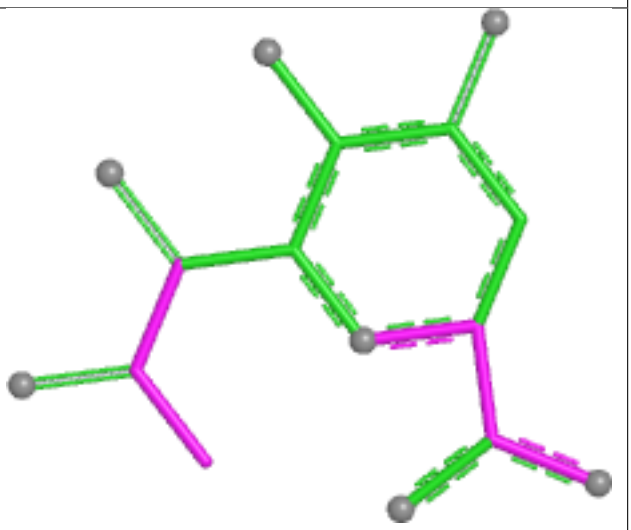


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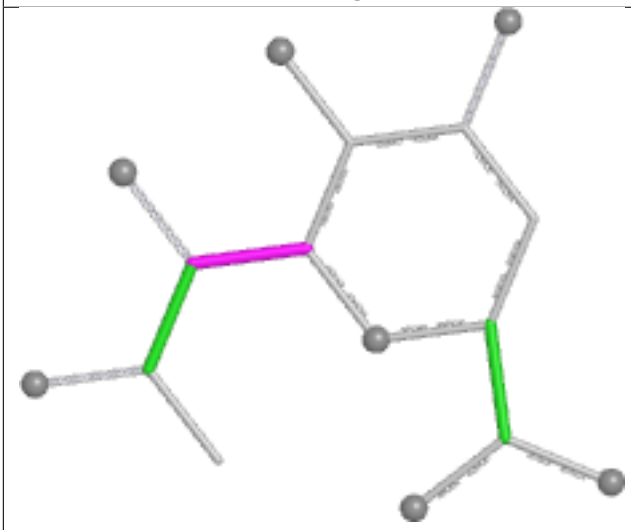
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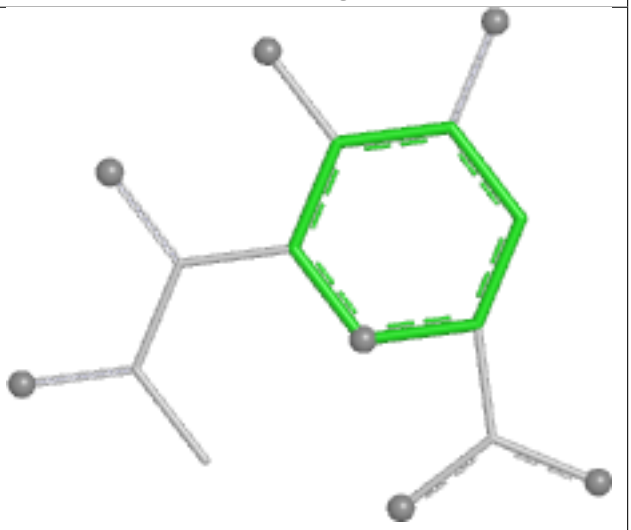
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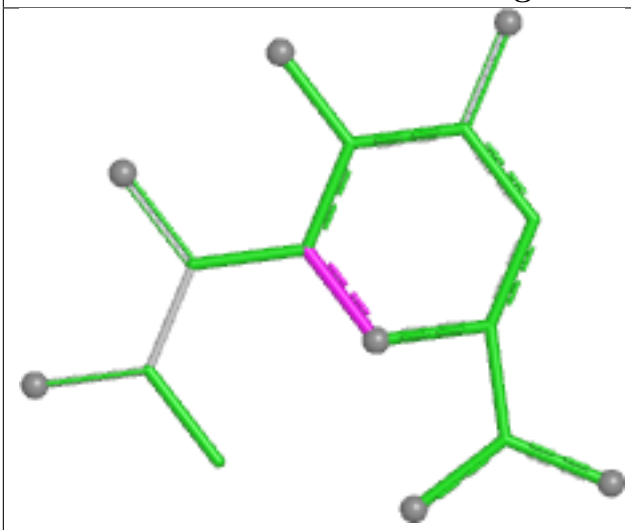


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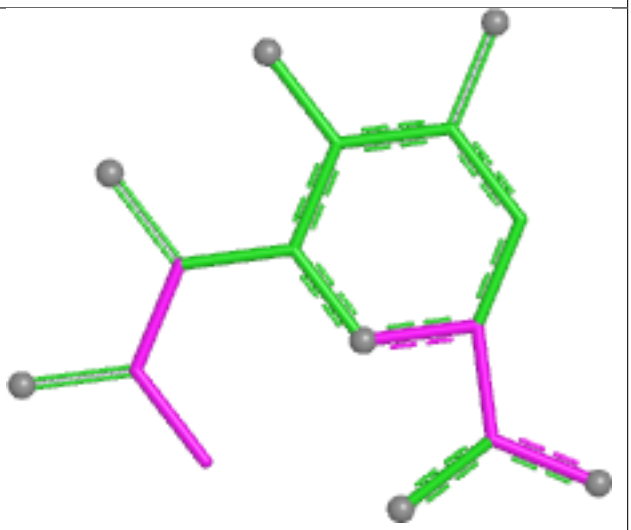


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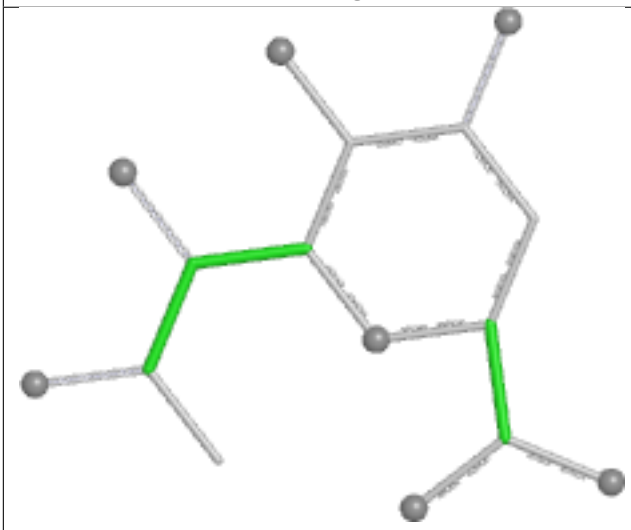
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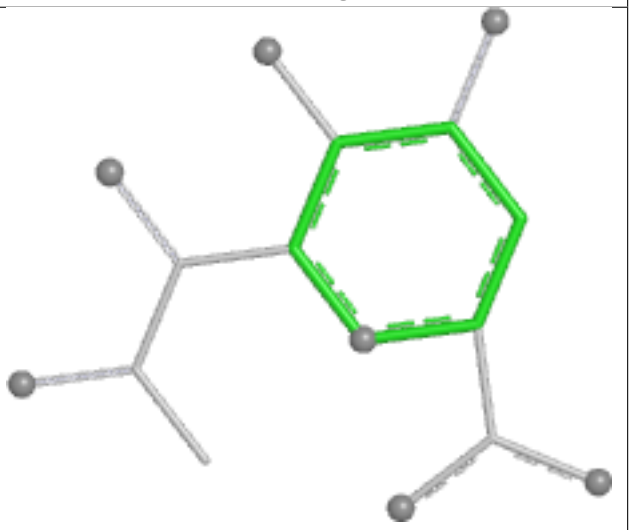
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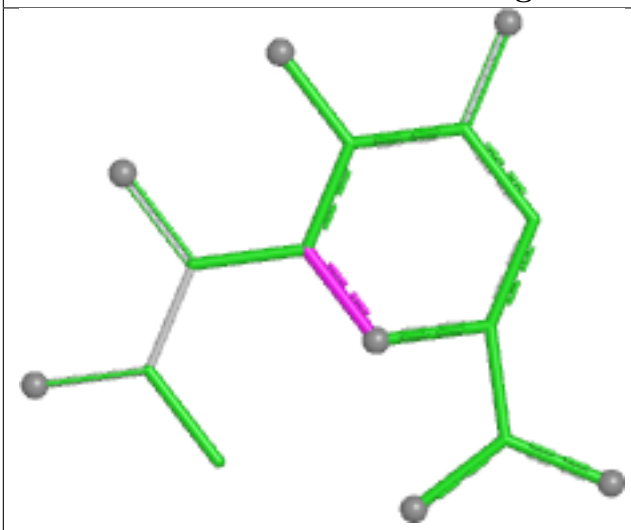


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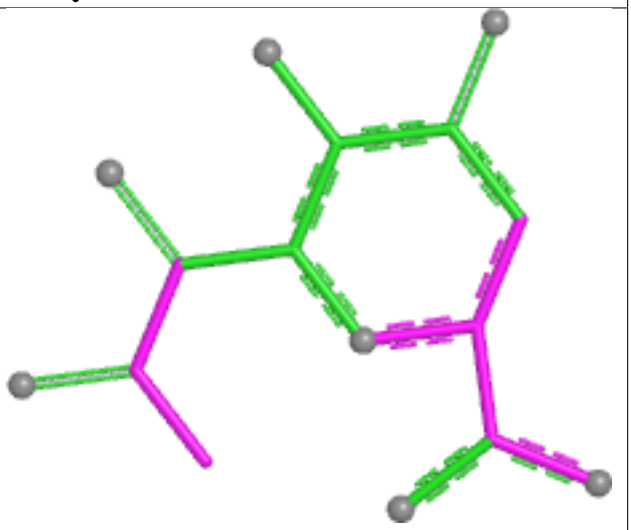


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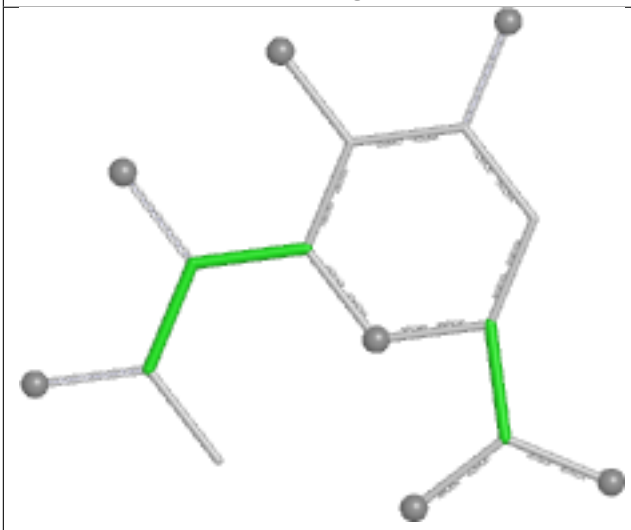
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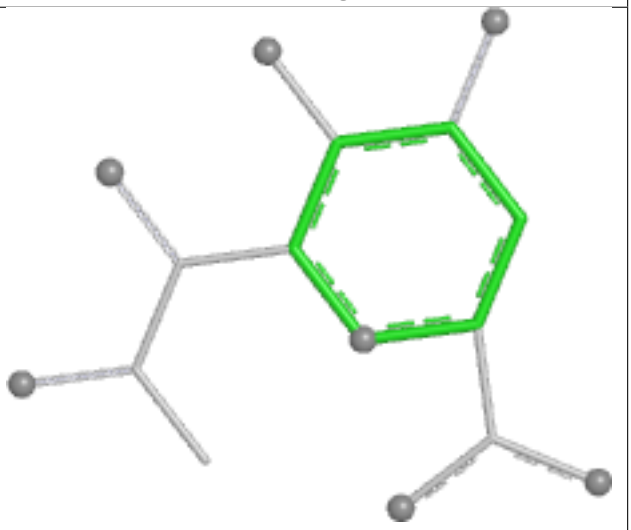
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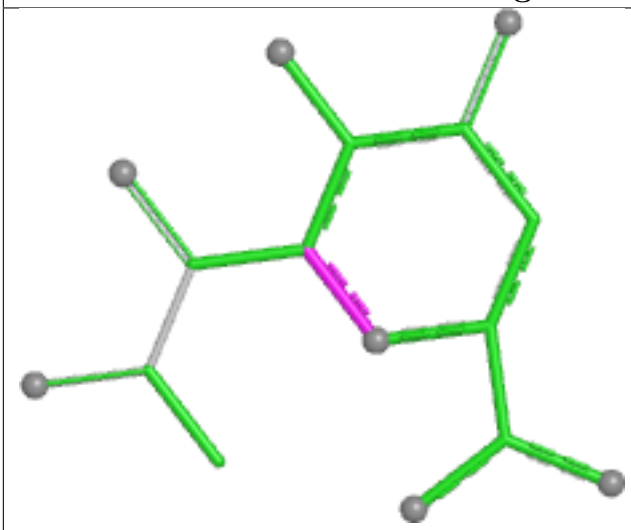


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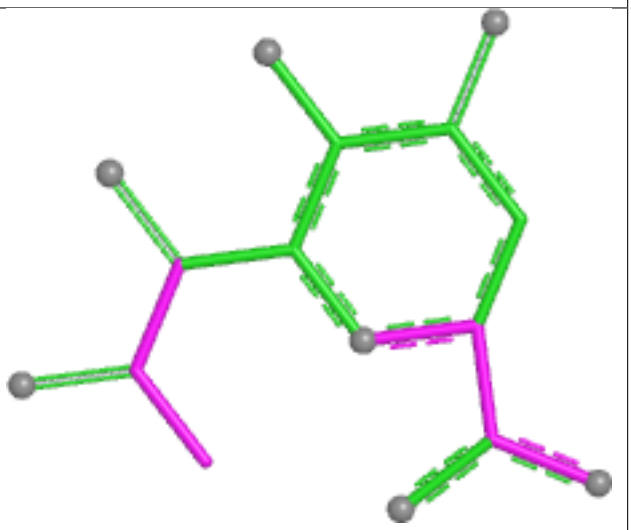


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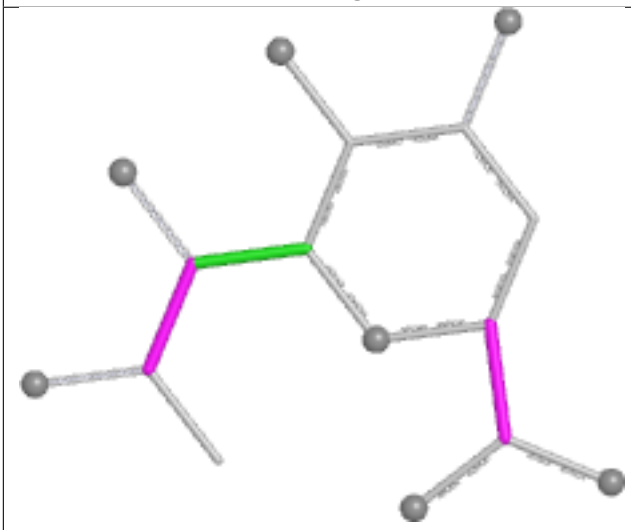
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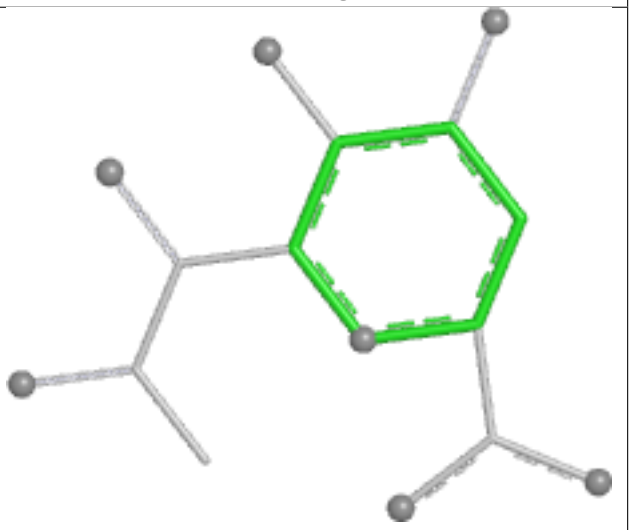
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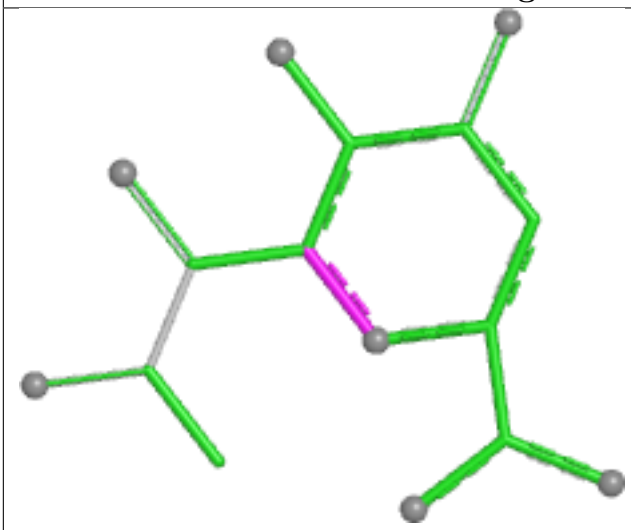


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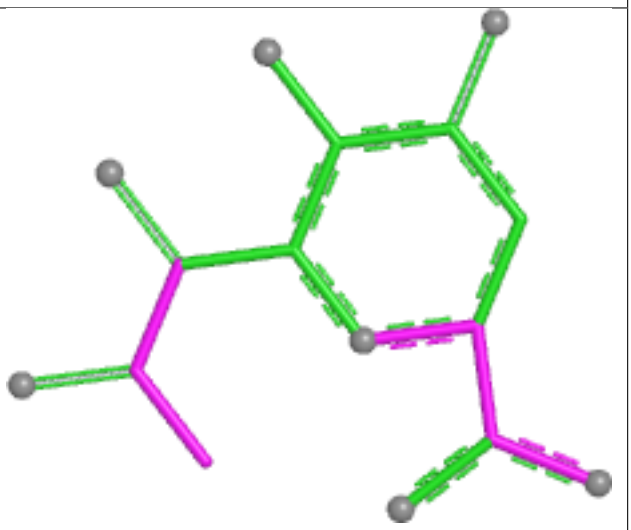


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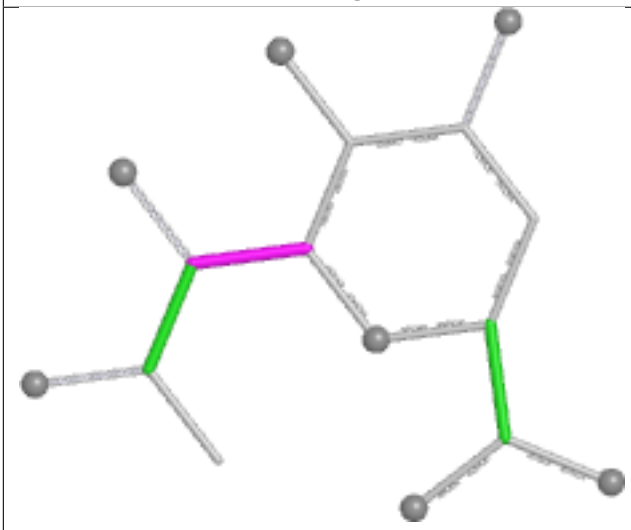
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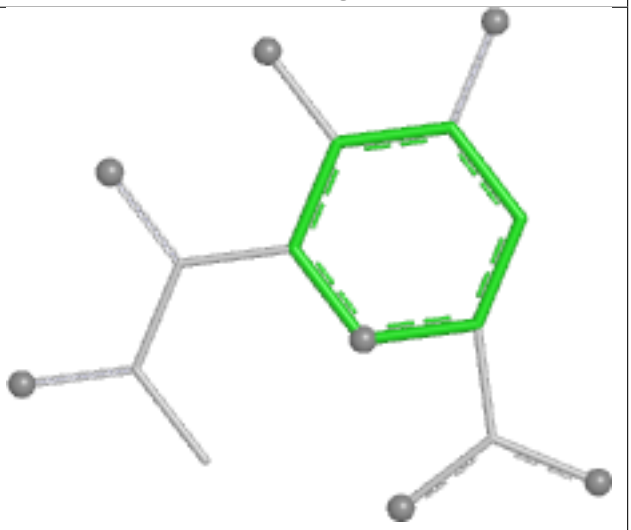
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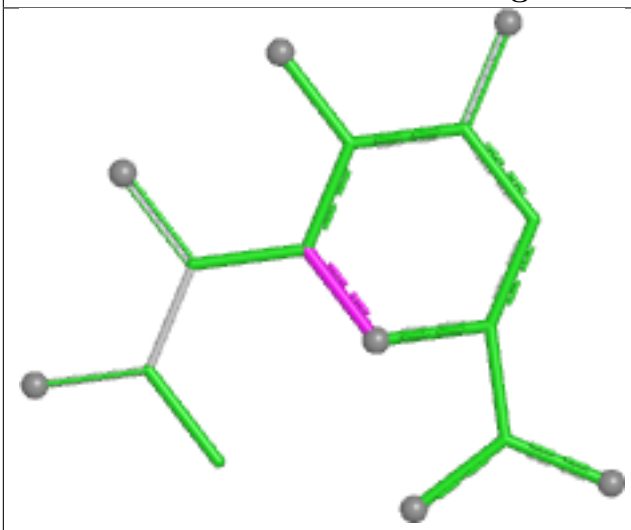


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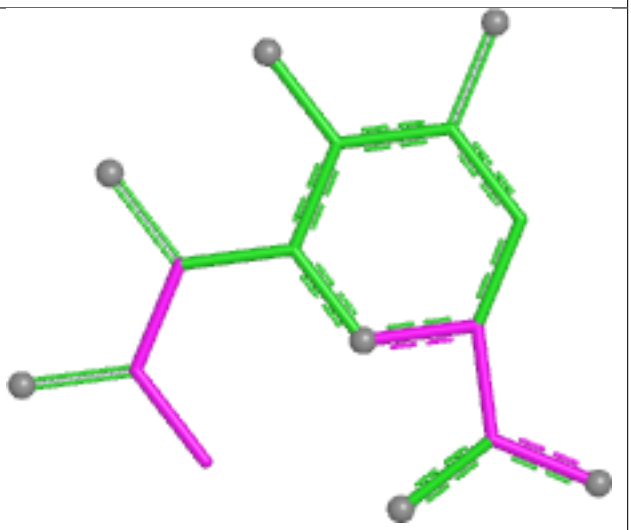


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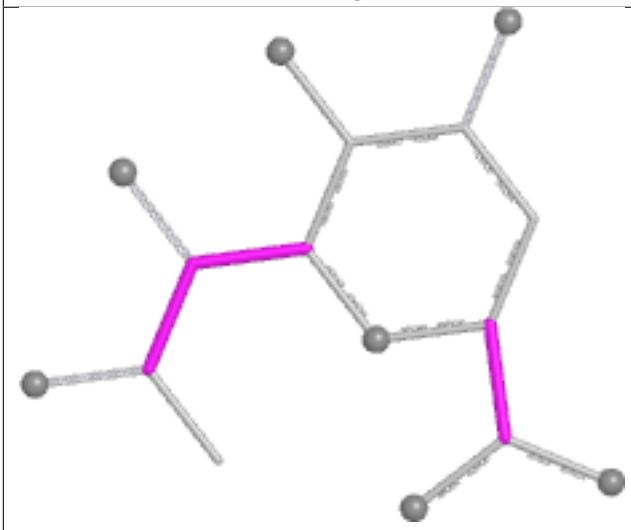
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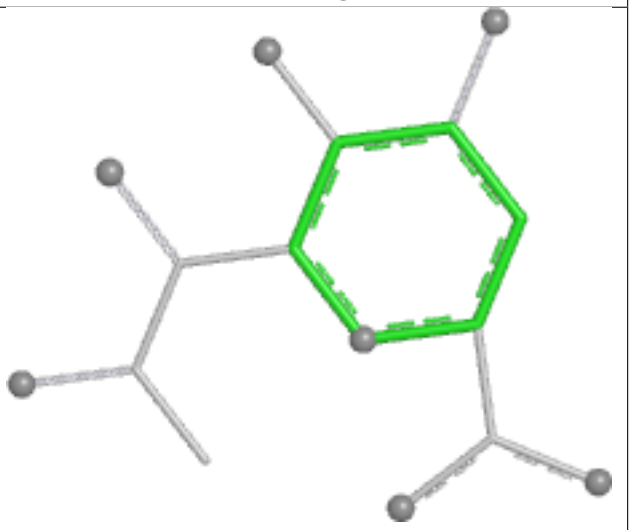
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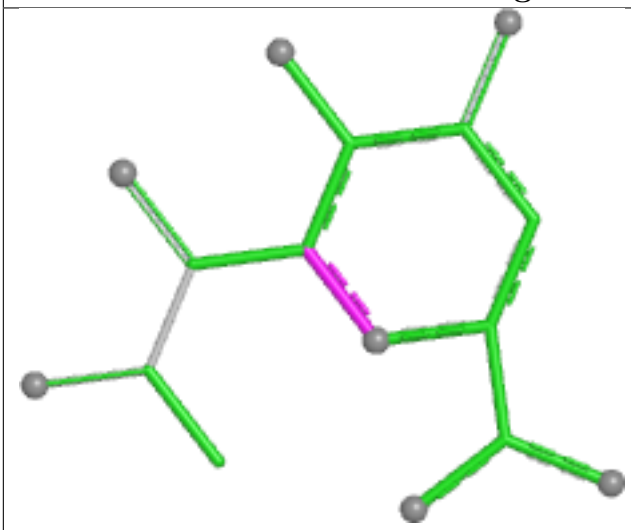


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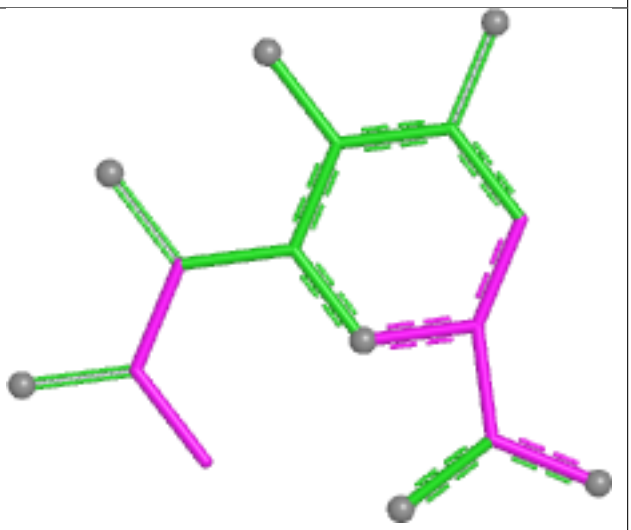


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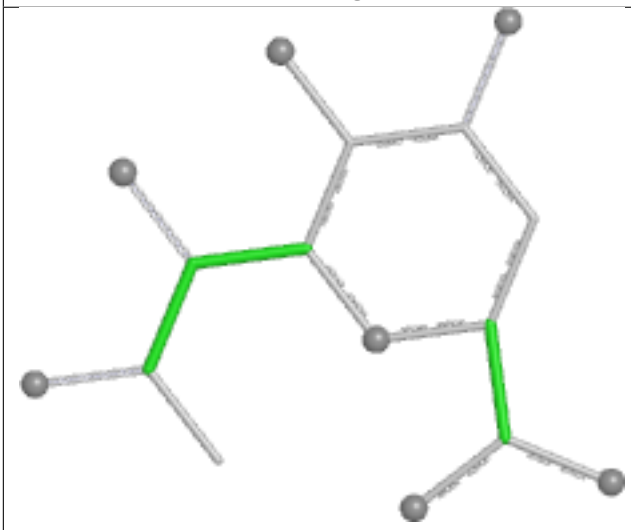
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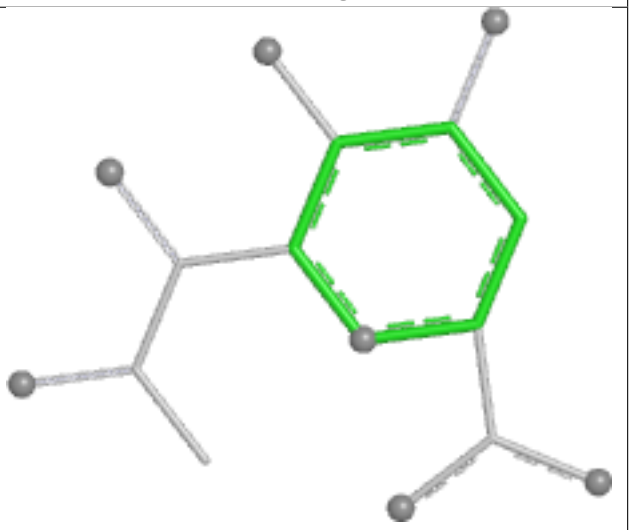
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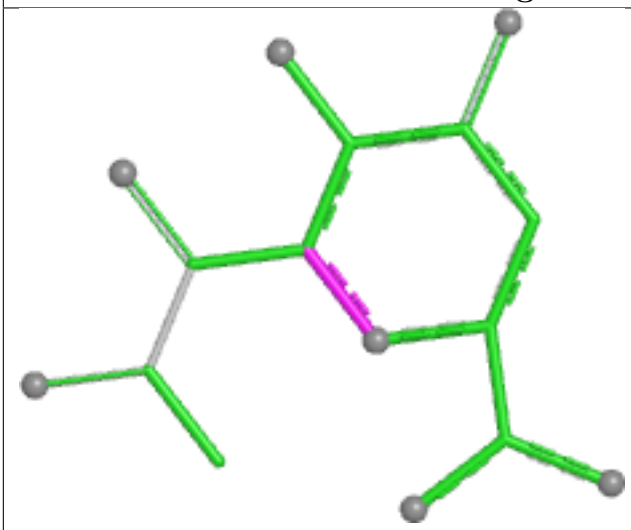


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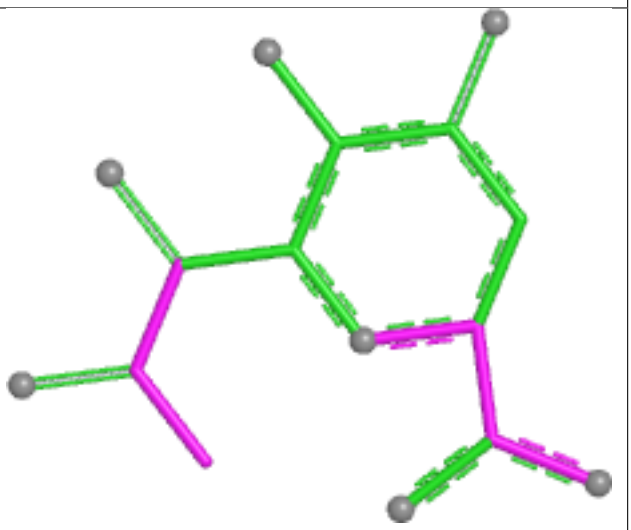


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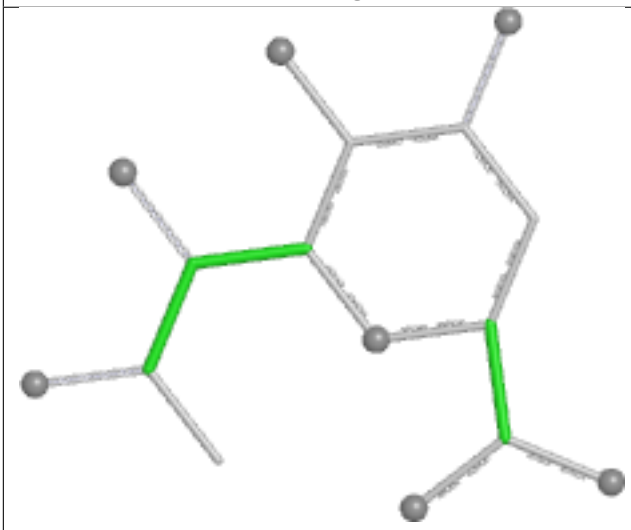
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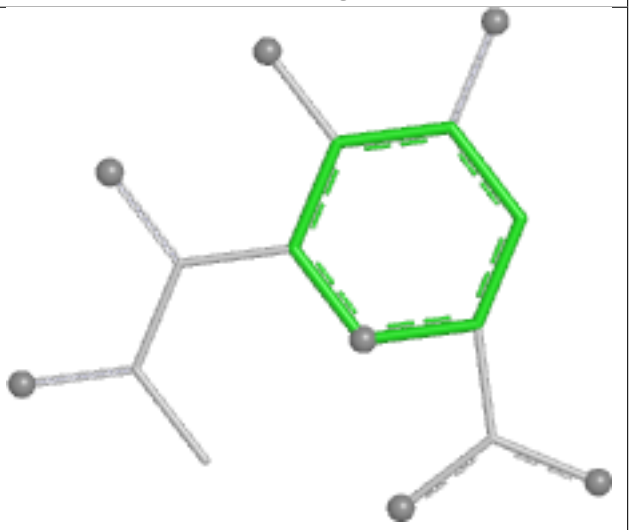
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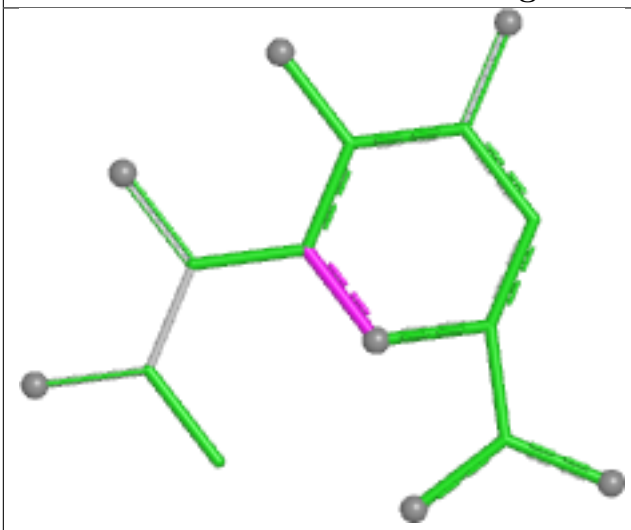


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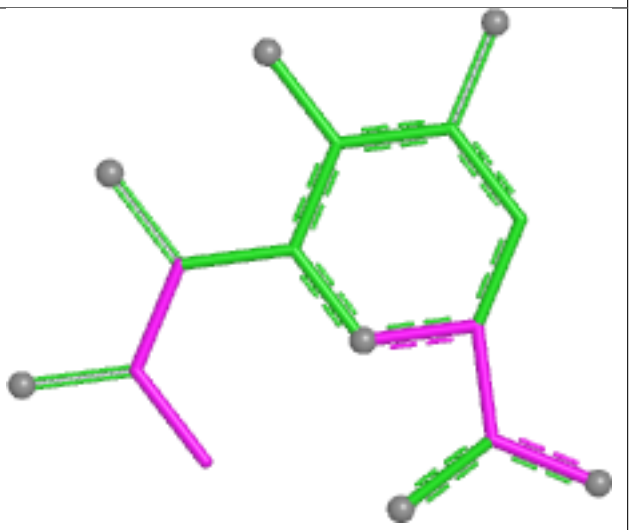


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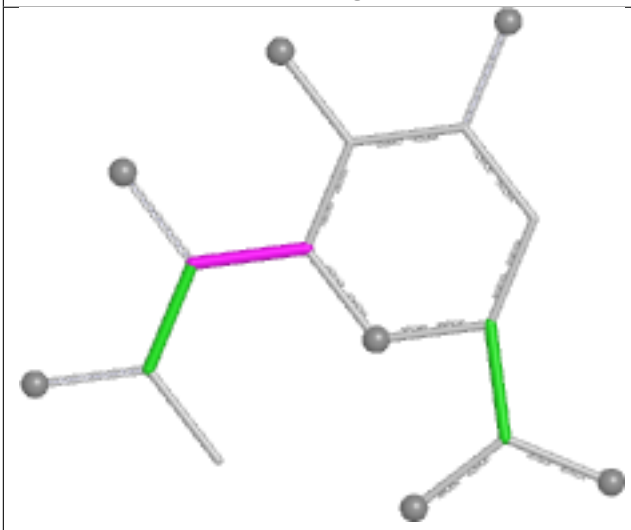
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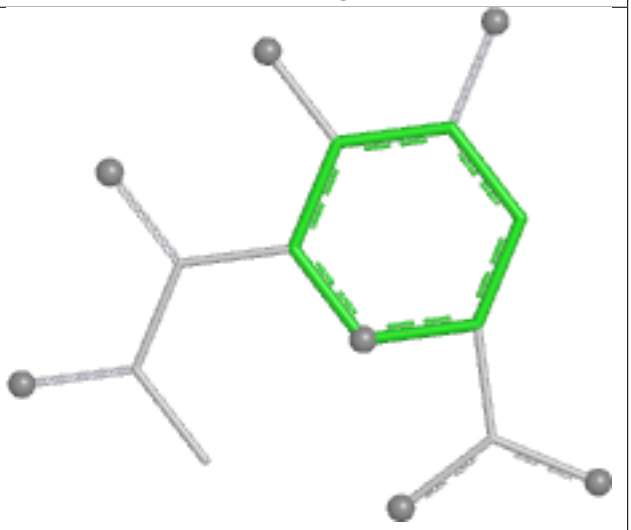
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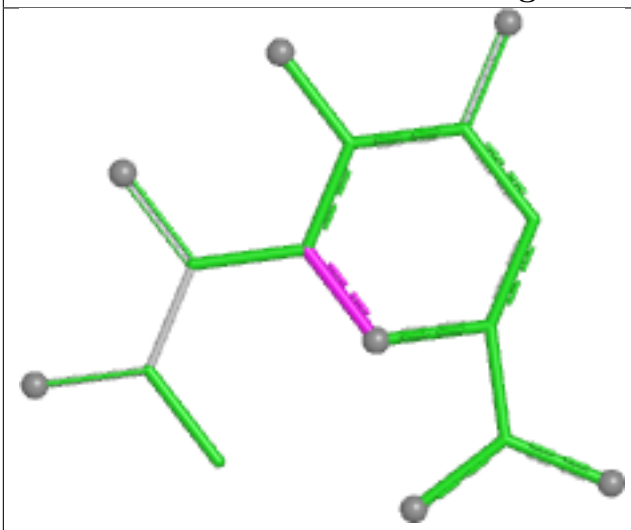


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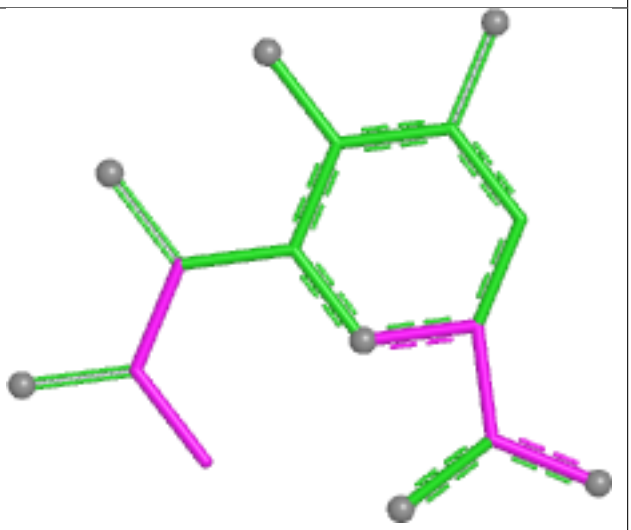


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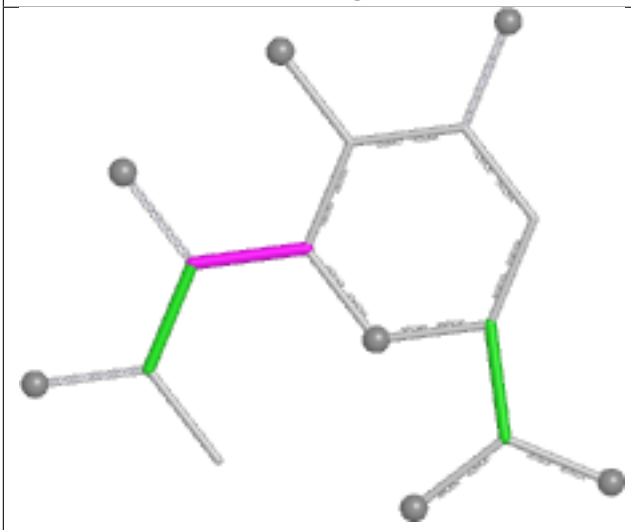
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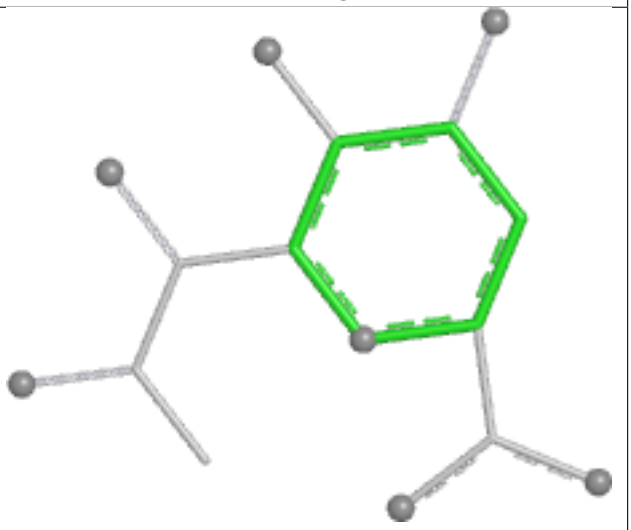
Bond lengths



Bond angles

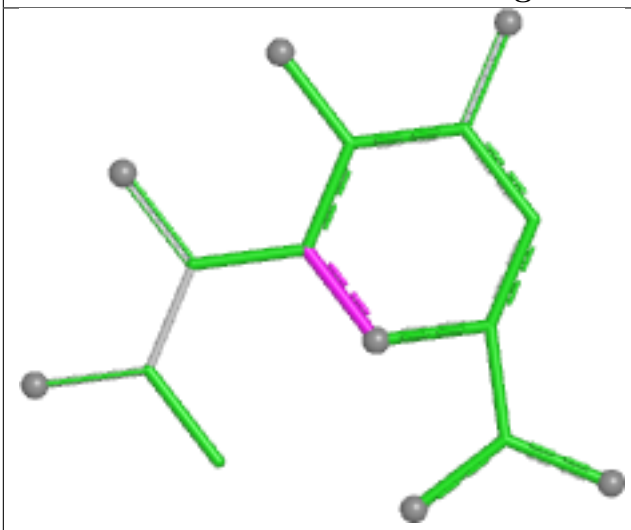


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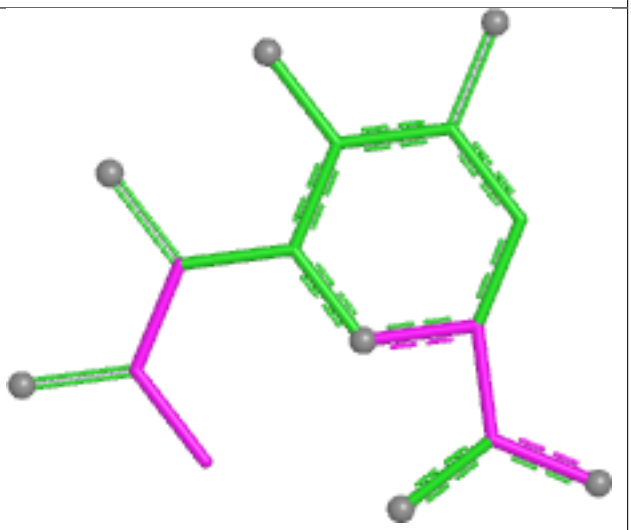


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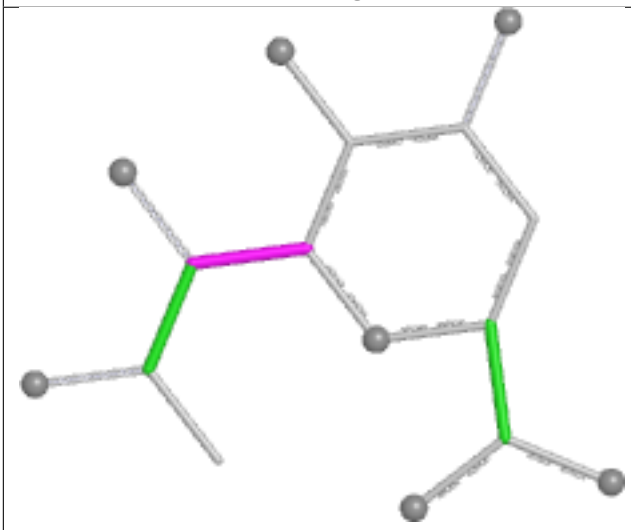
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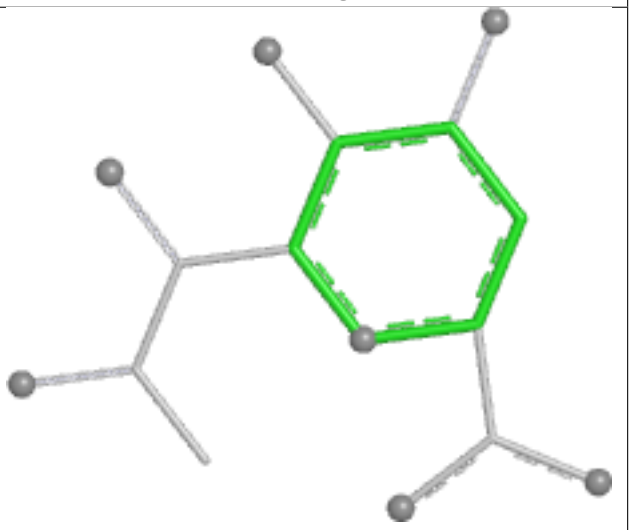
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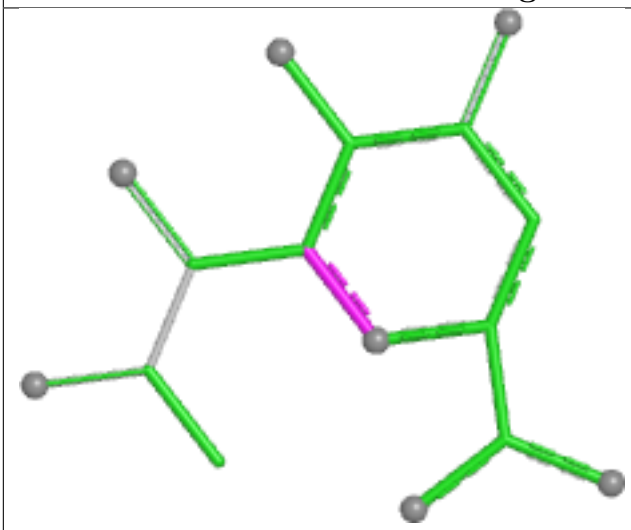


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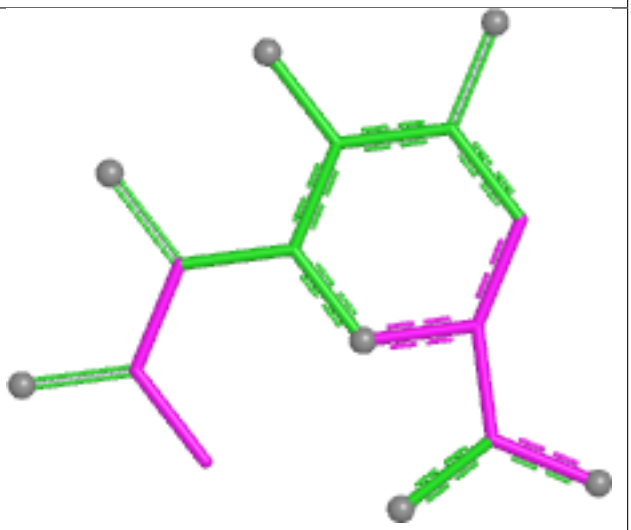


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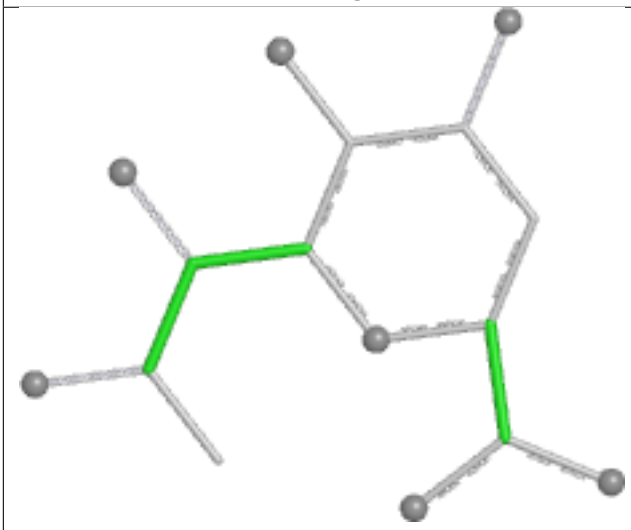
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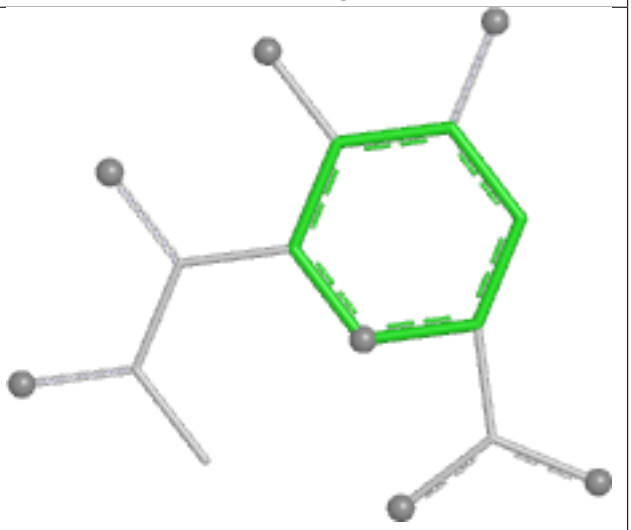
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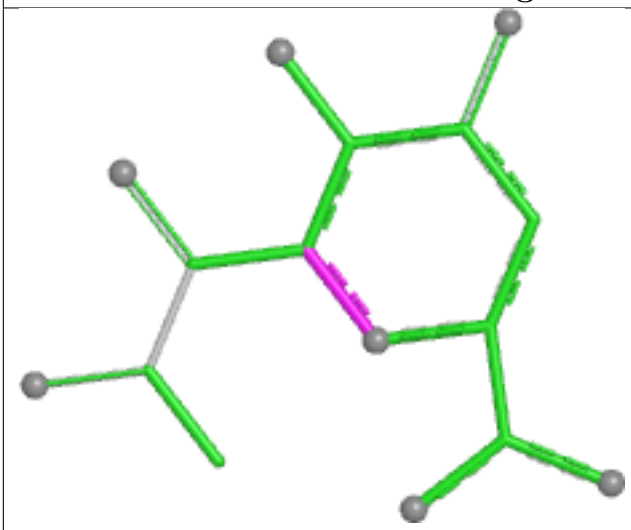


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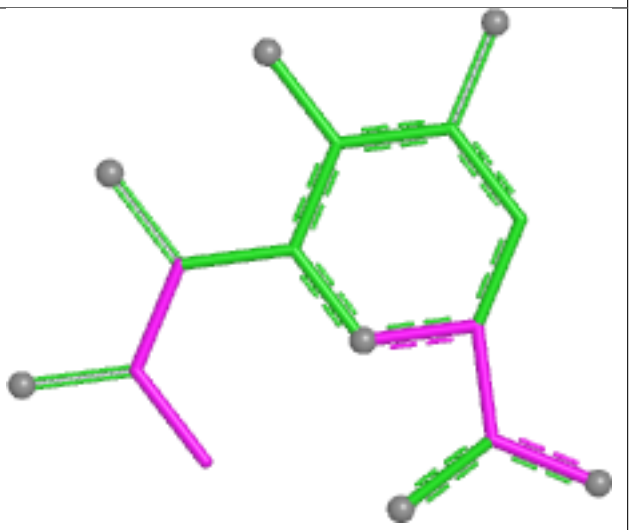


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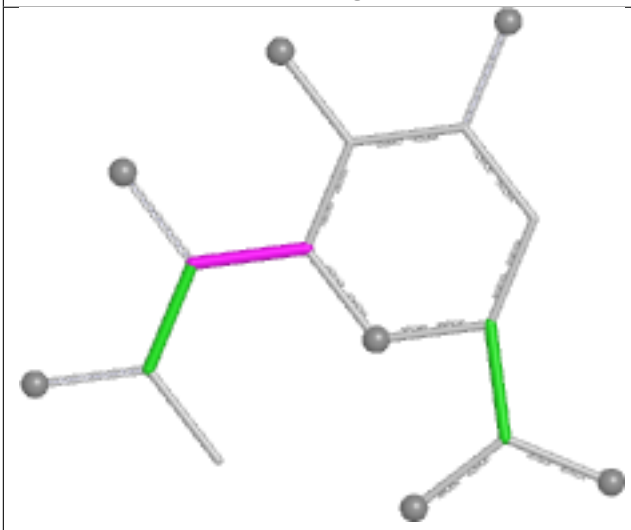
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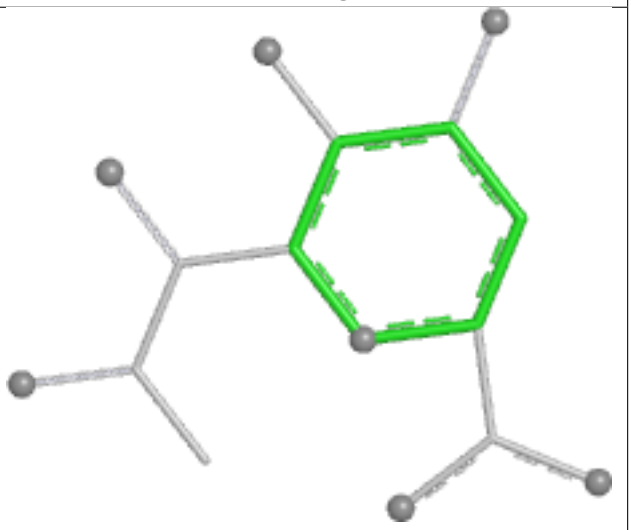
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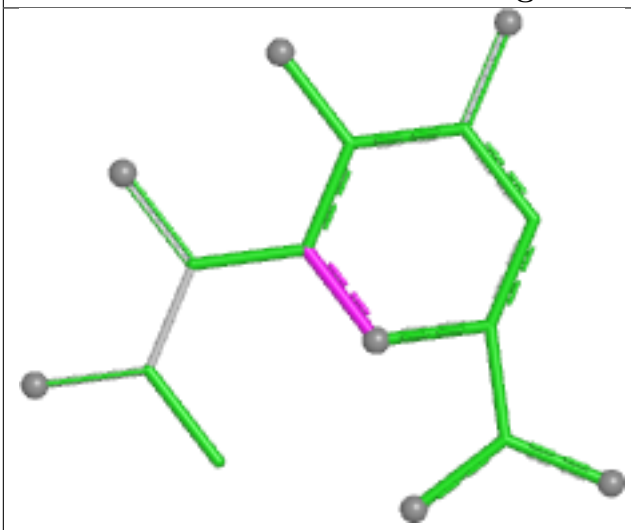


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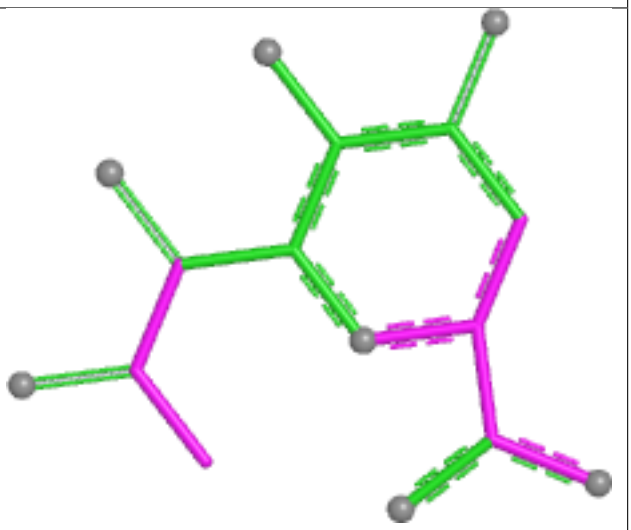


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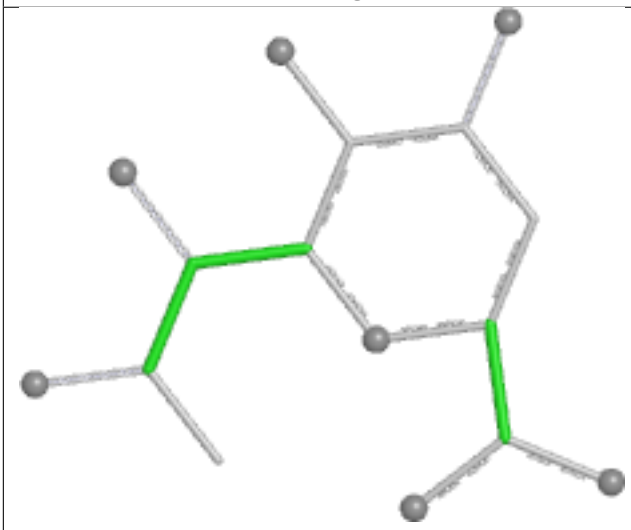
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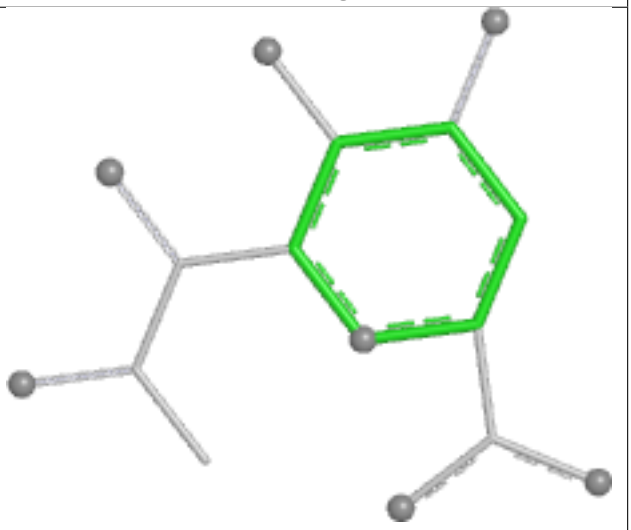
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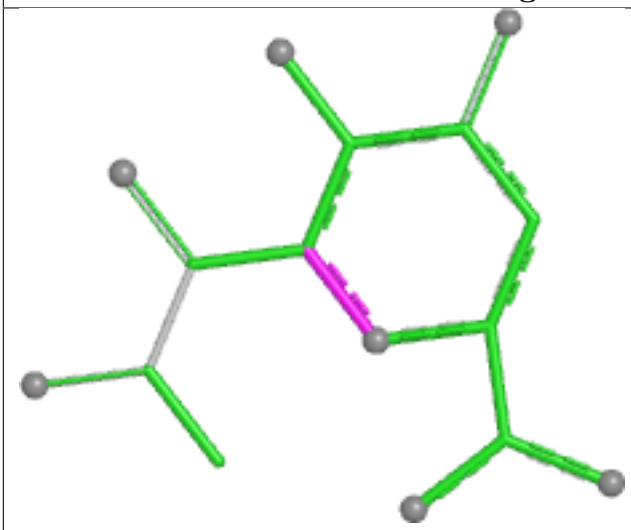


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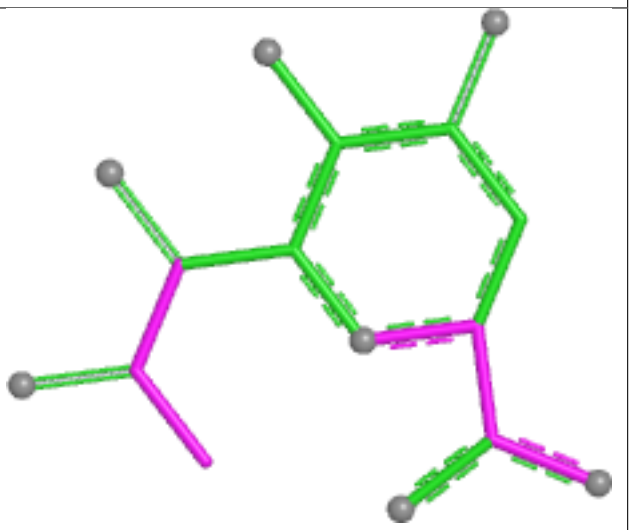


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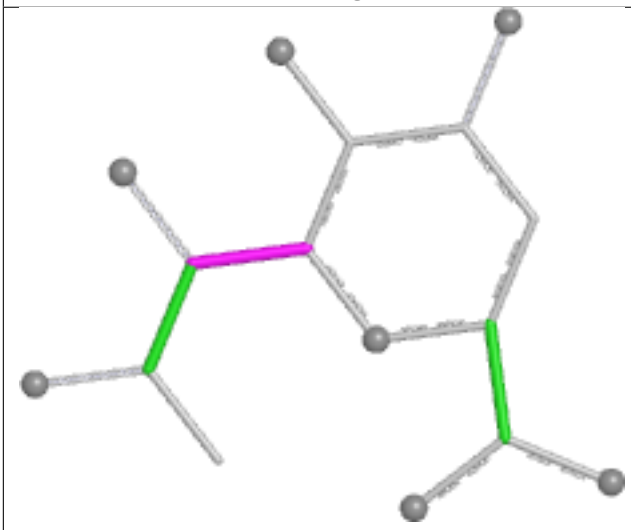
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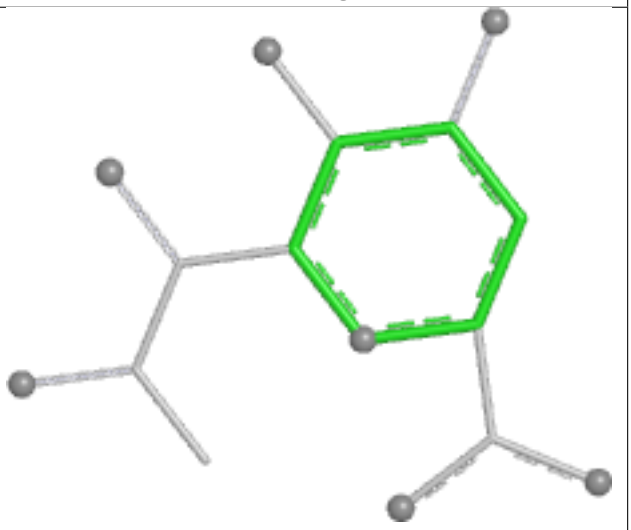
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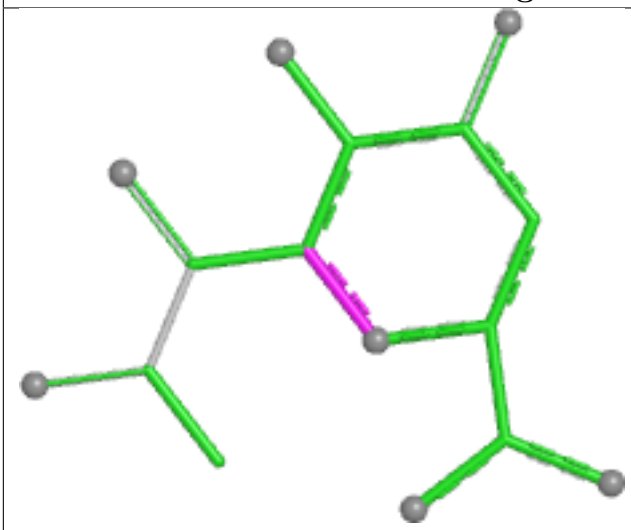


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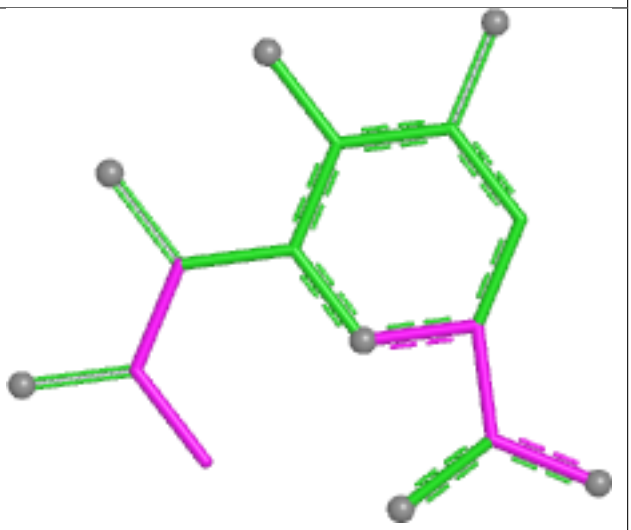


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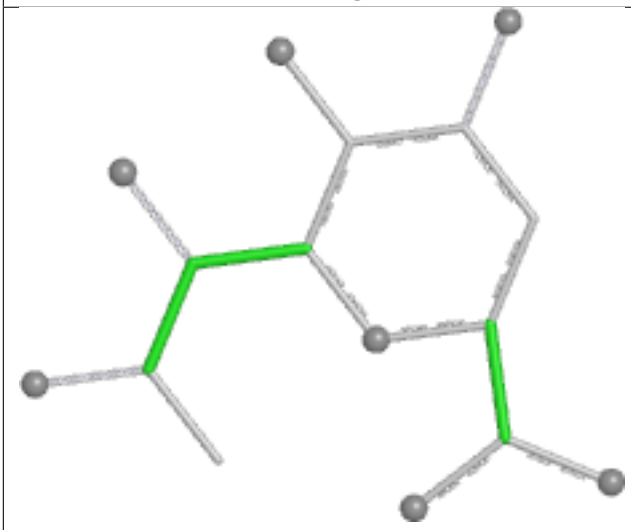
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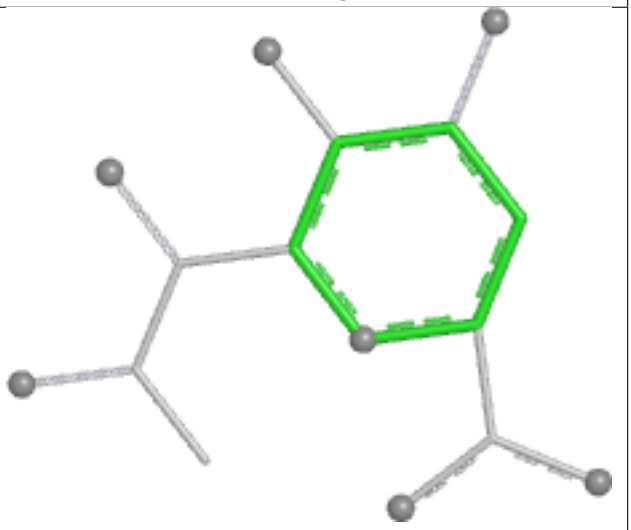
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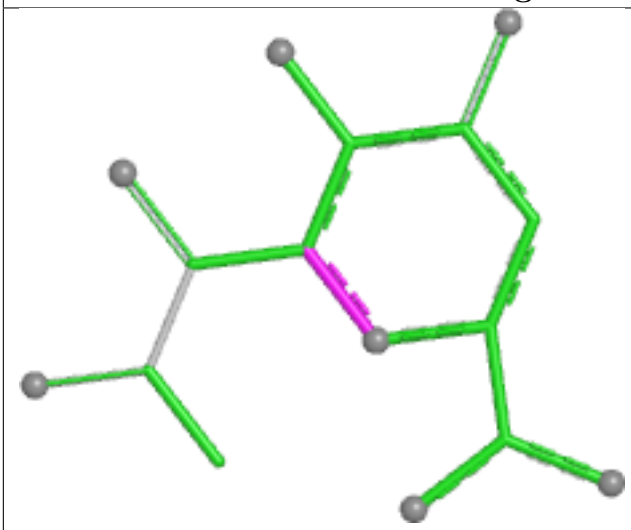


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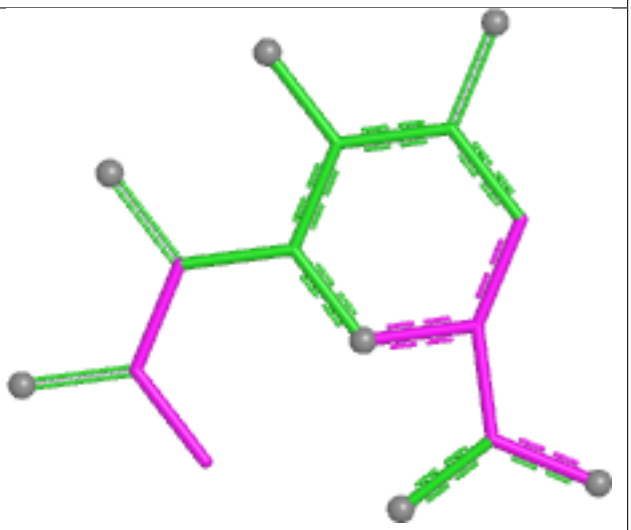


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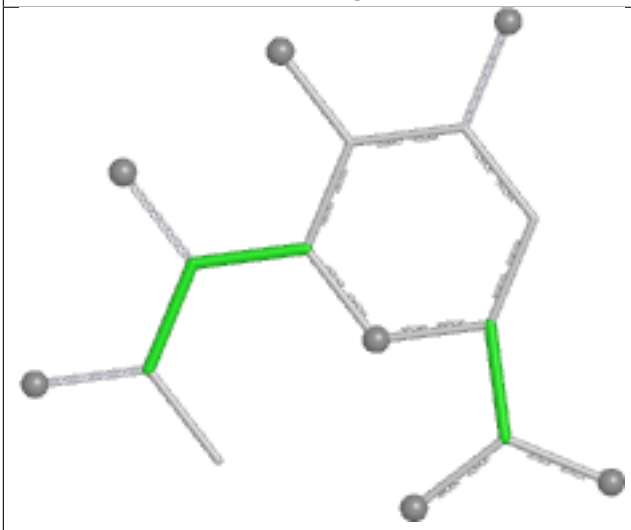
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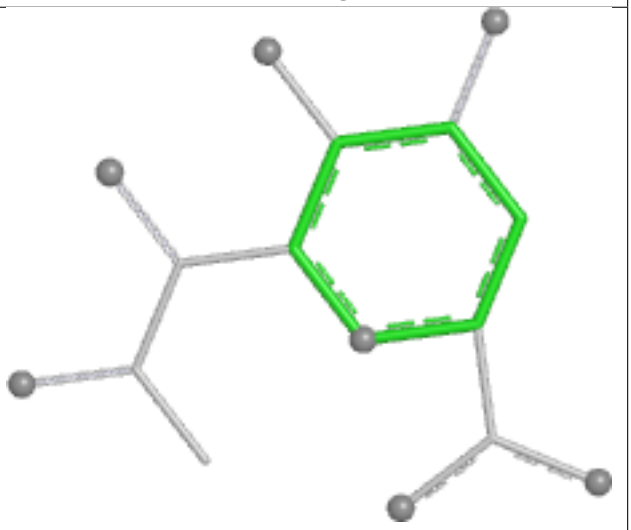
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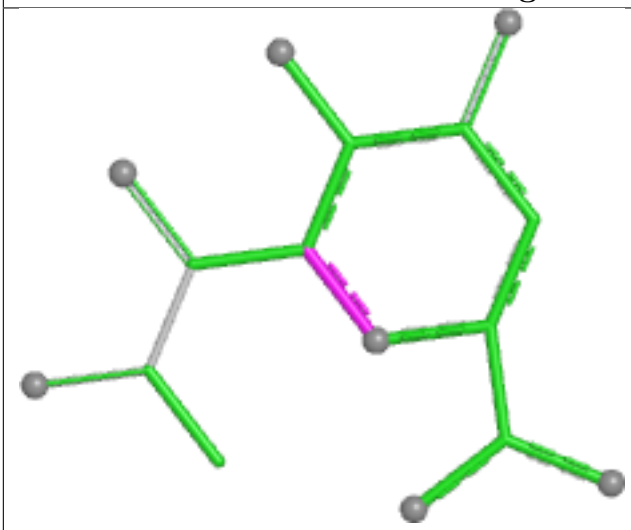


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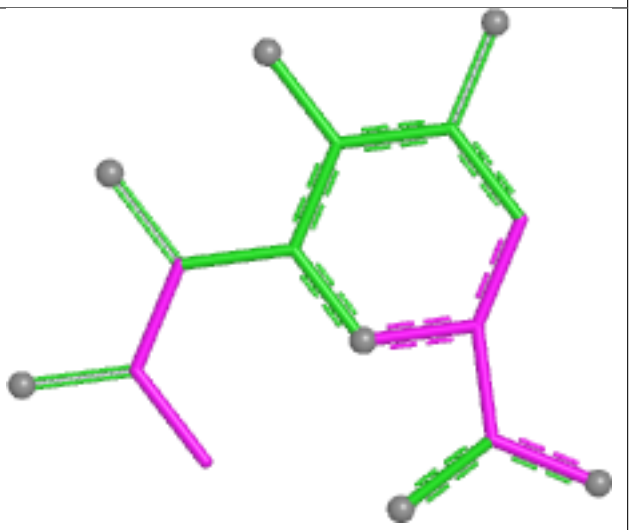


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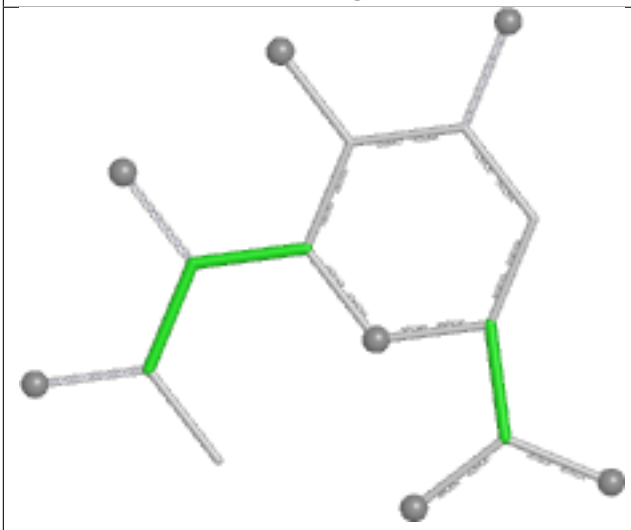
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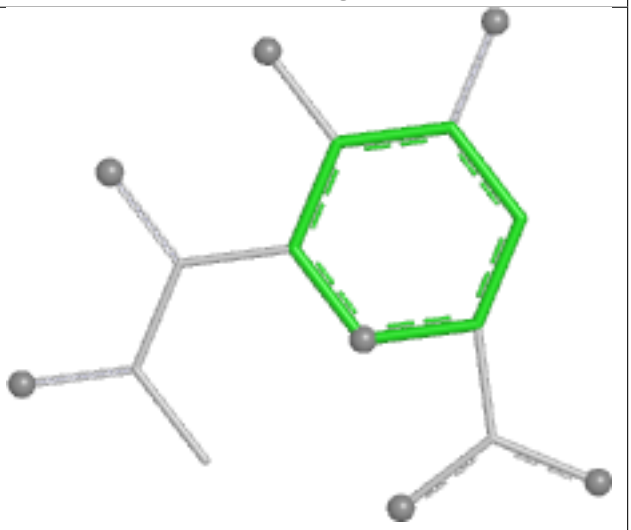
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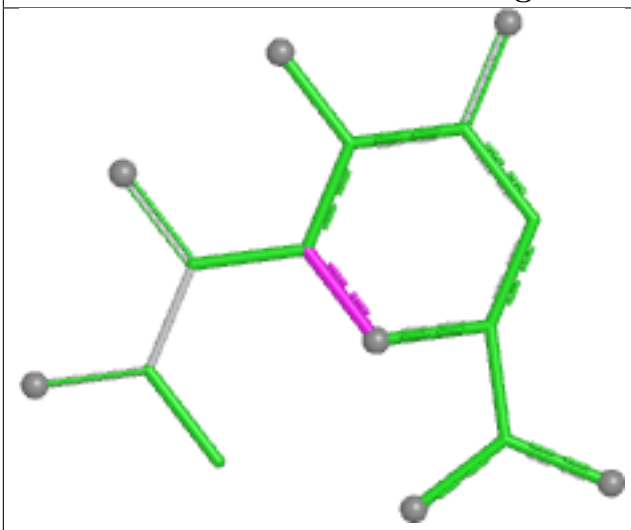


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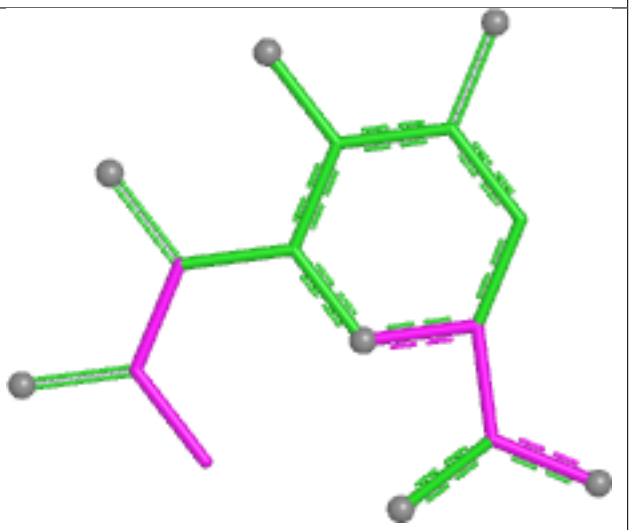


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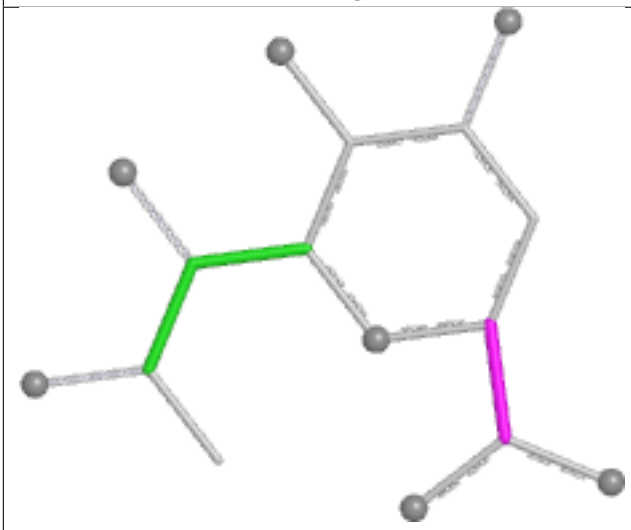
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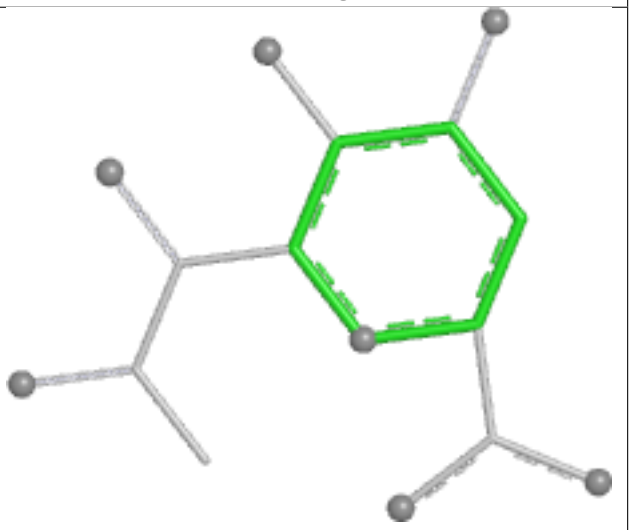
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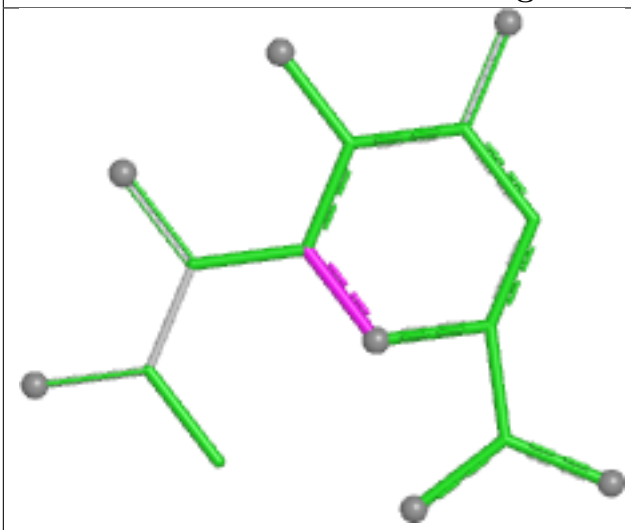


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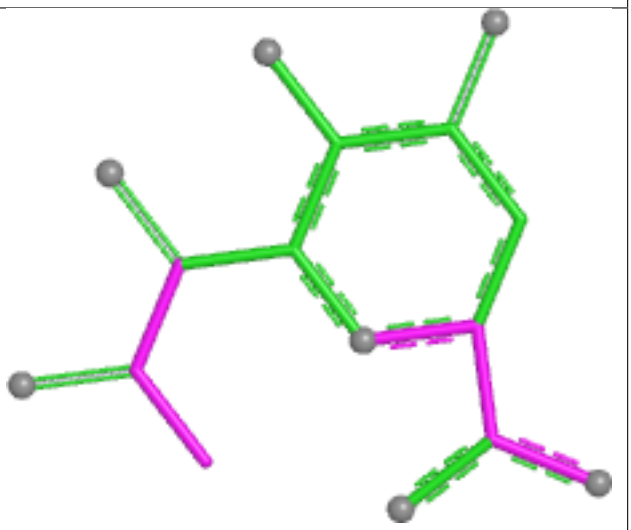


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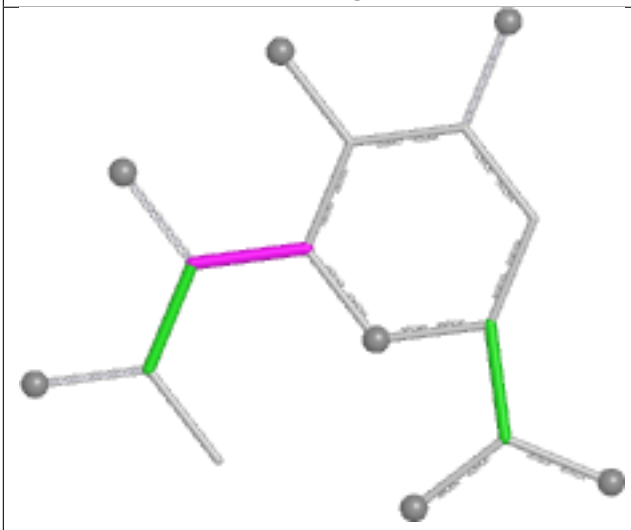
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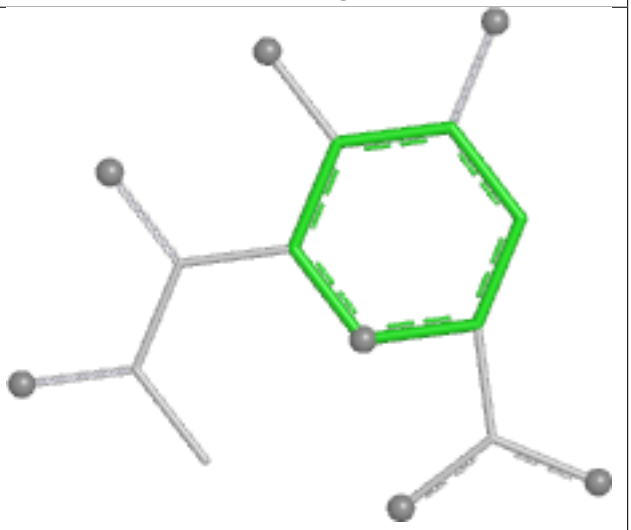
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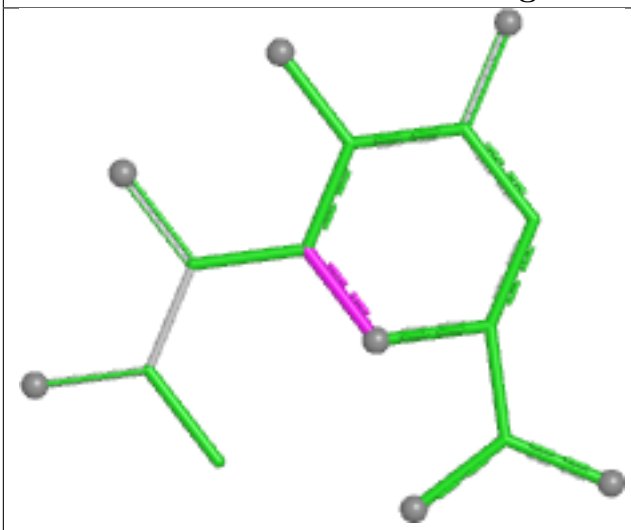


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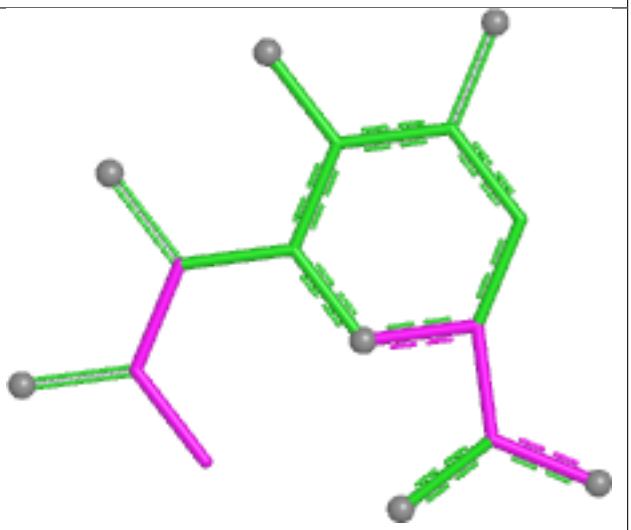


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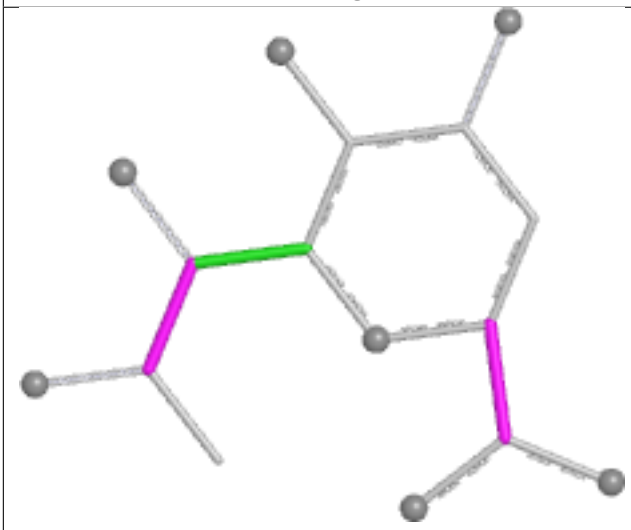
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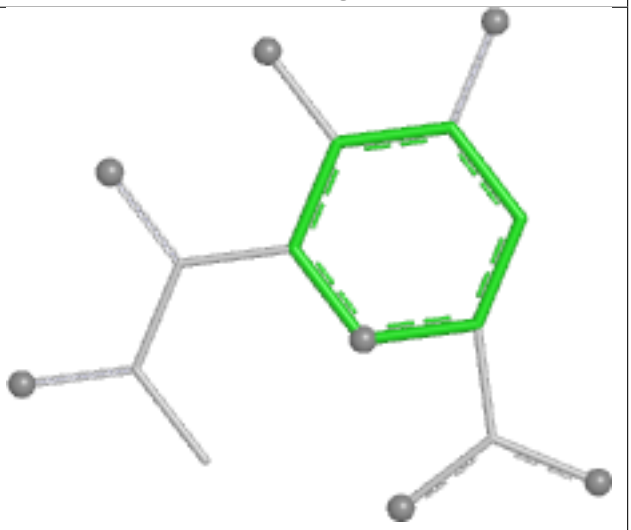
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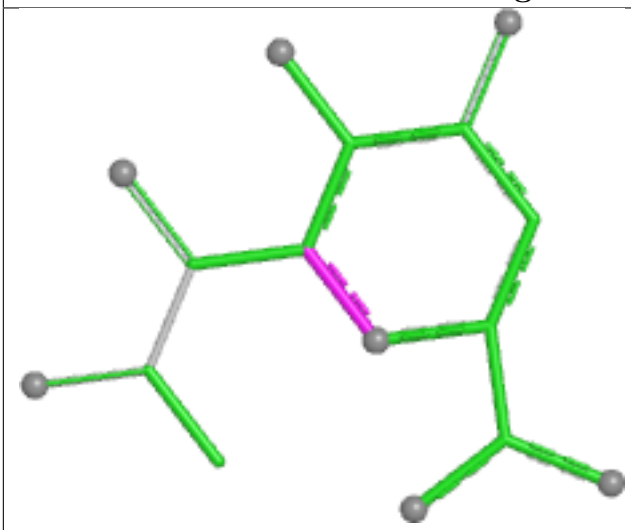


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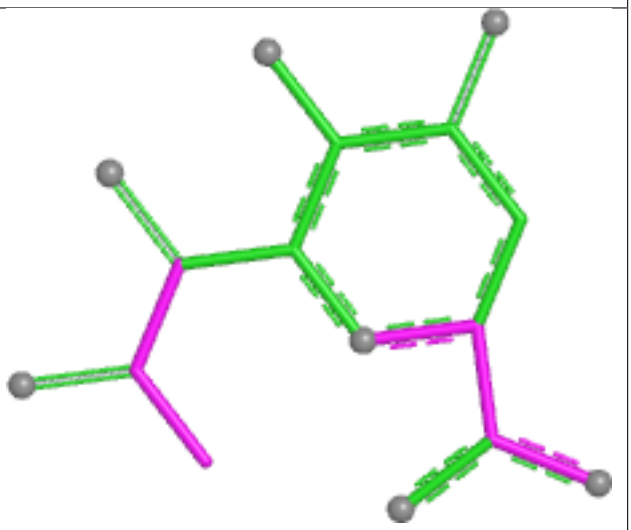


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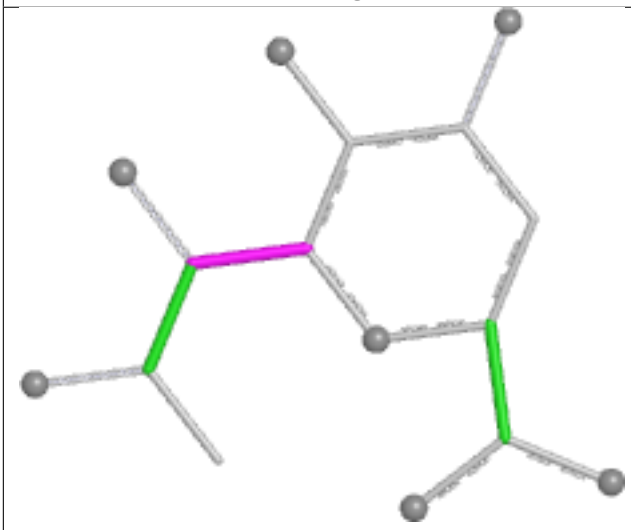
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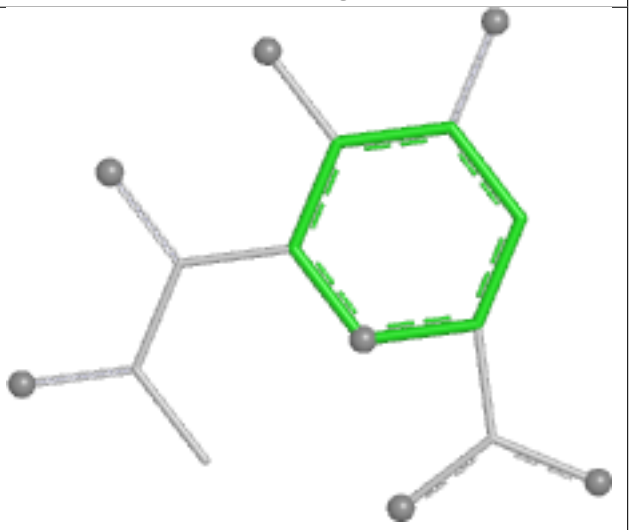
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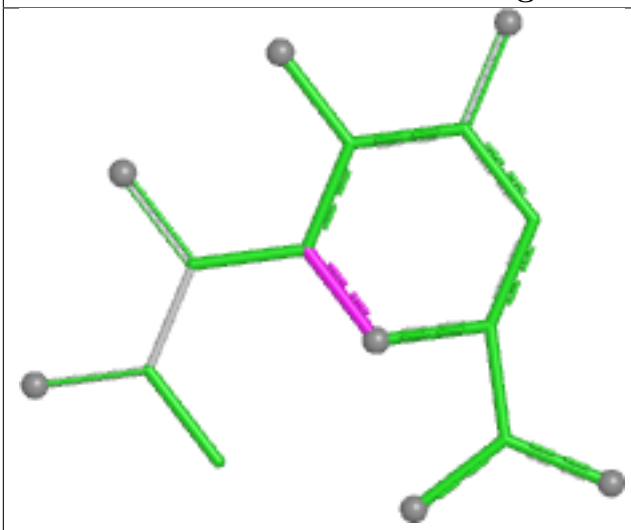


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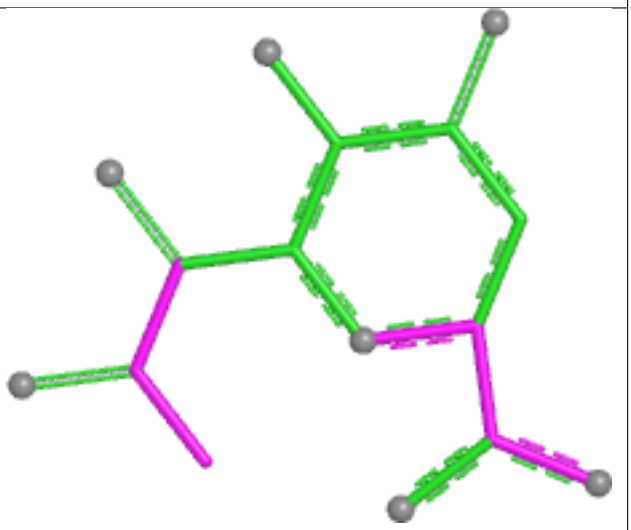


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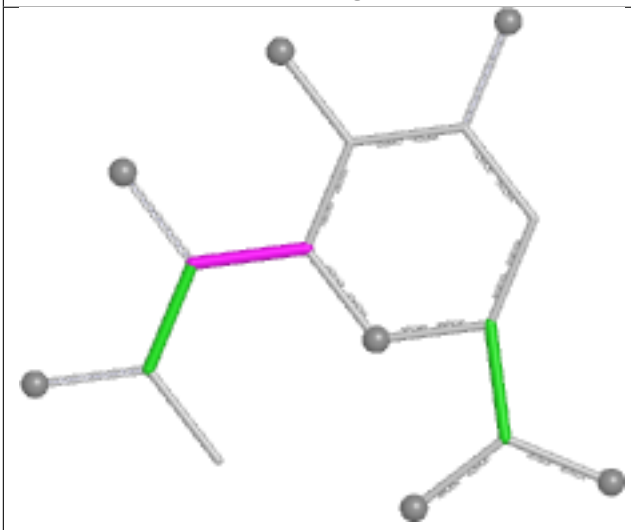
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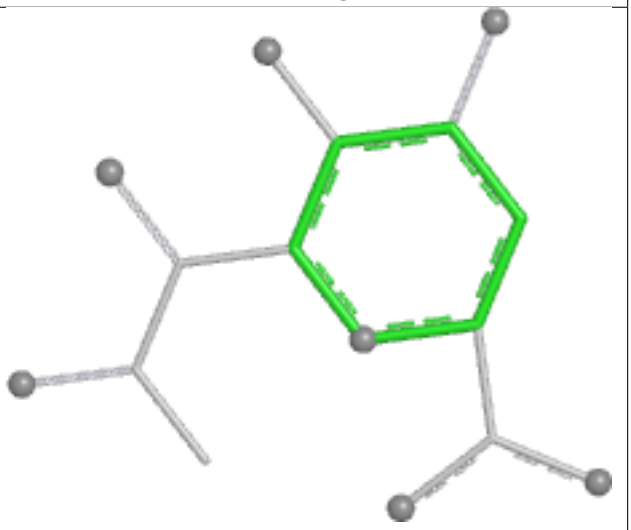
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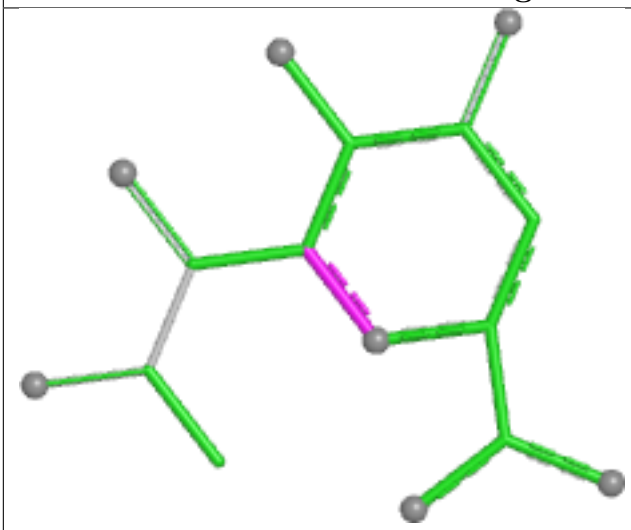


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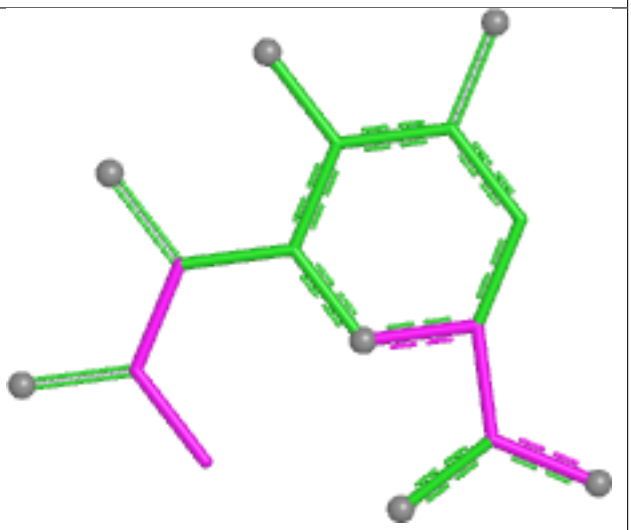


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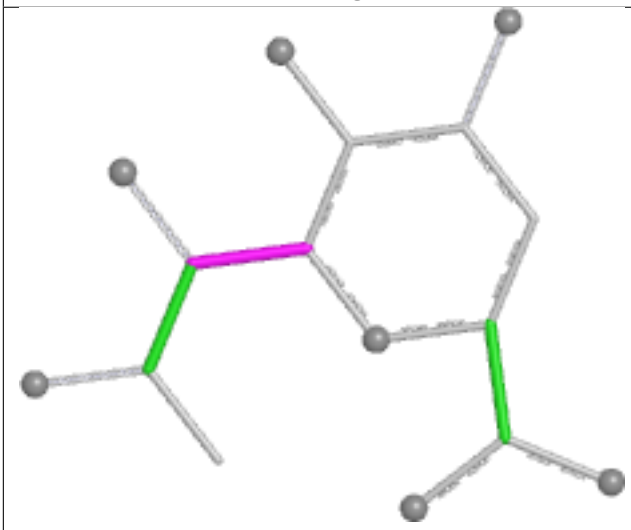
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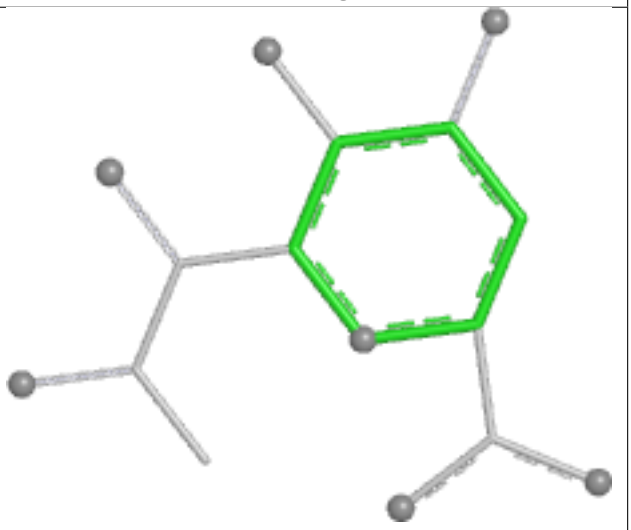
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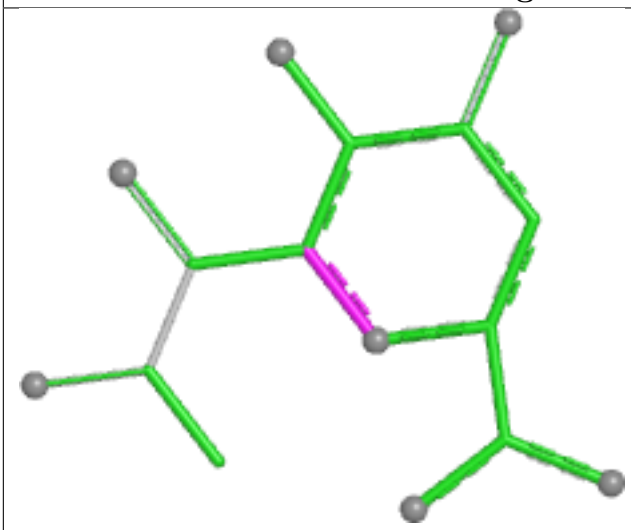


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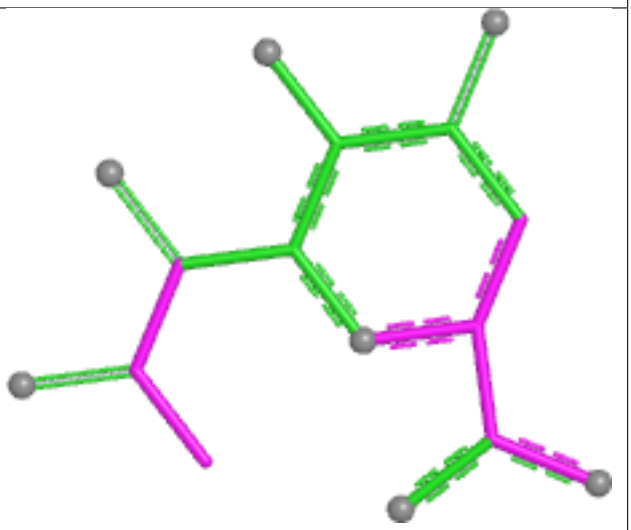


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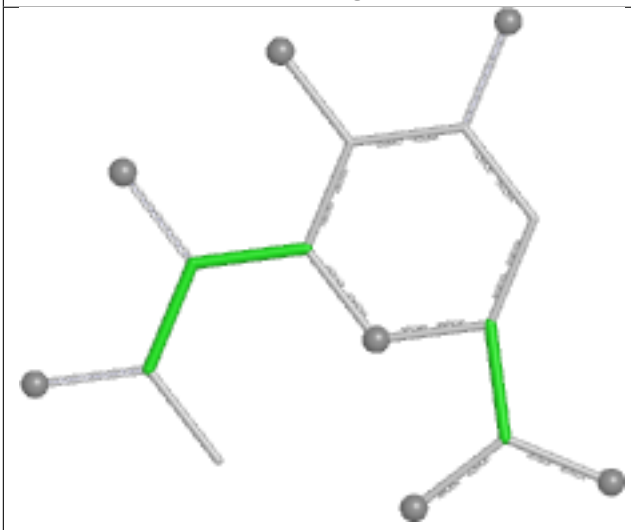
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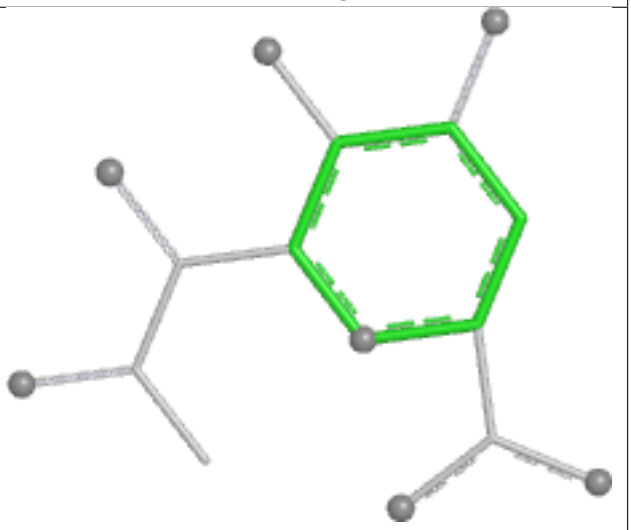
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Bond angles

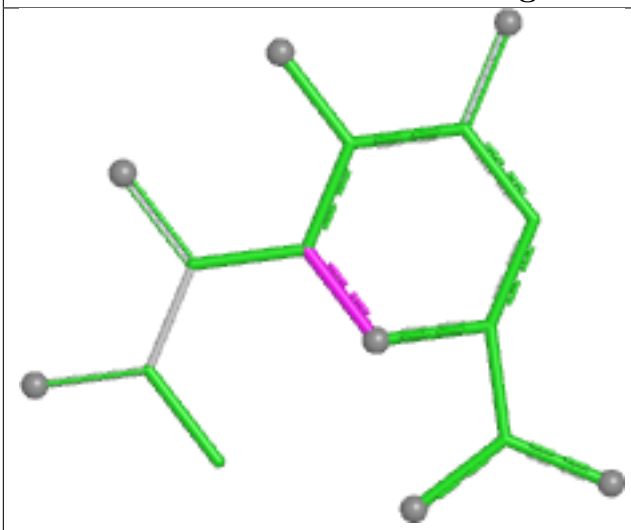


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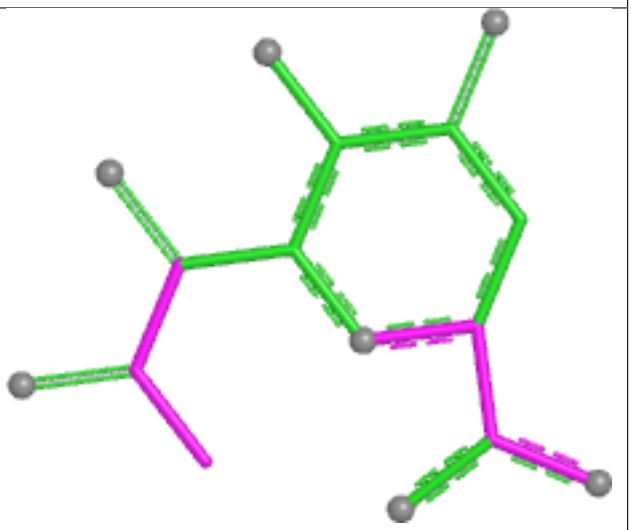


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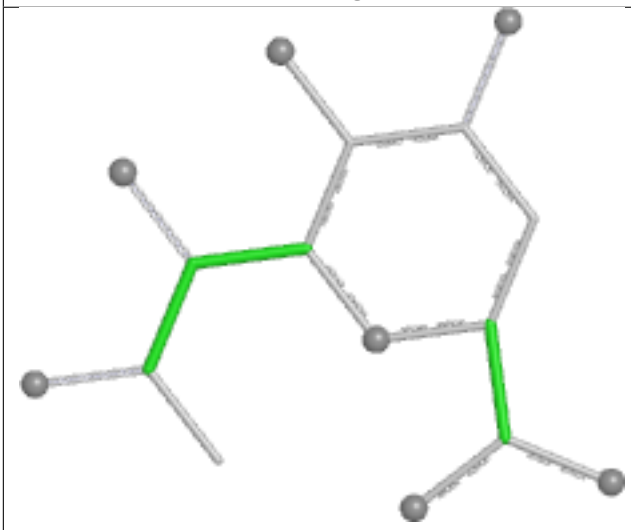
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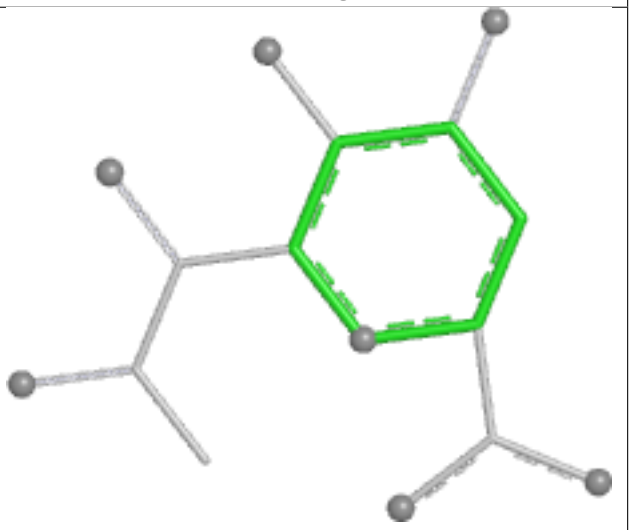
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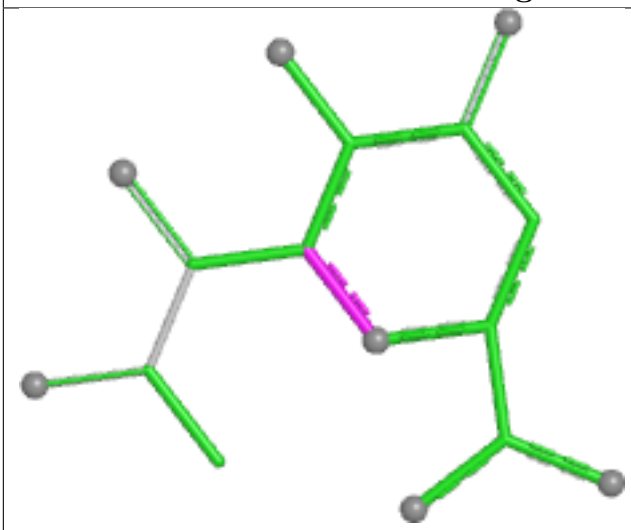


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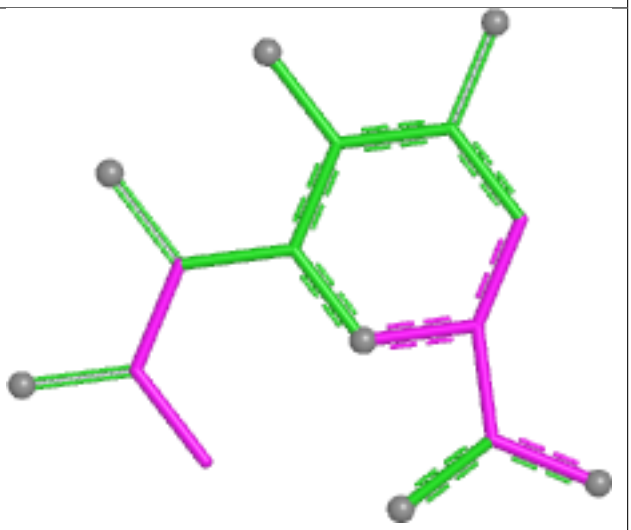


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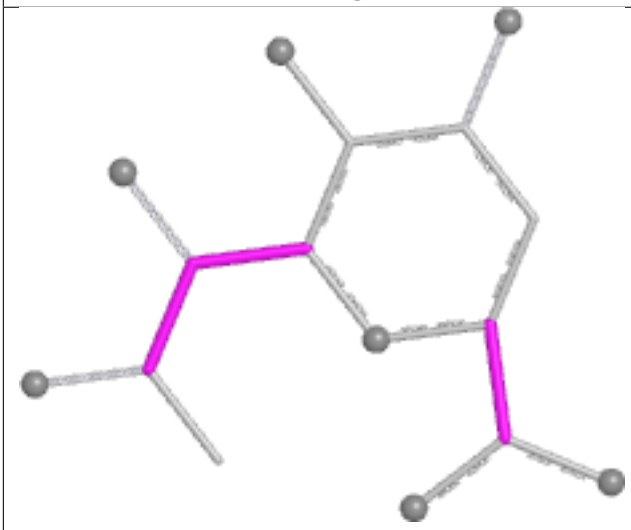
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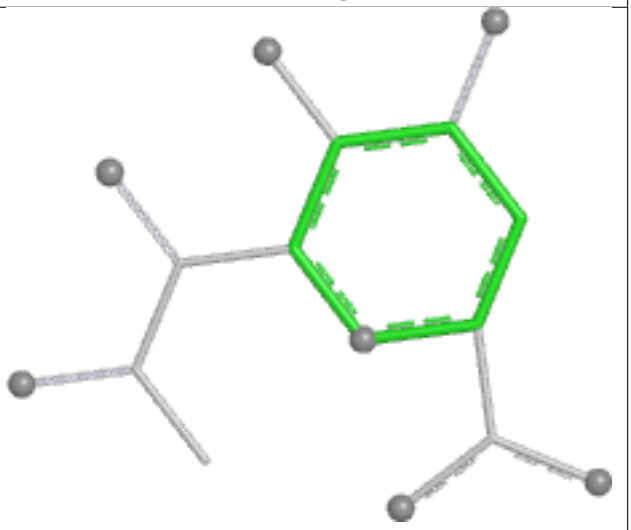
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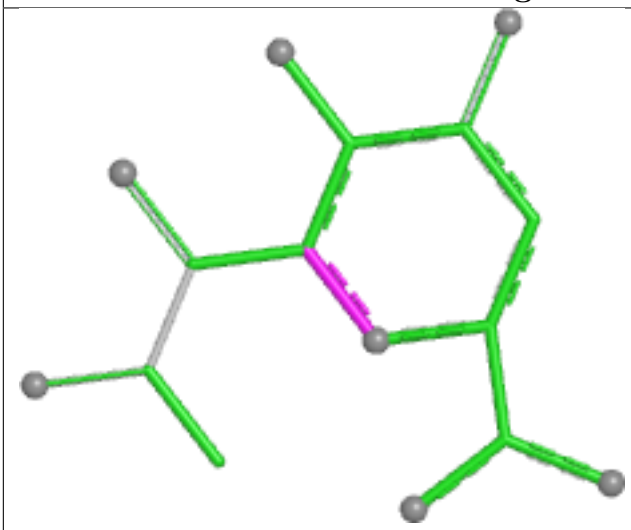


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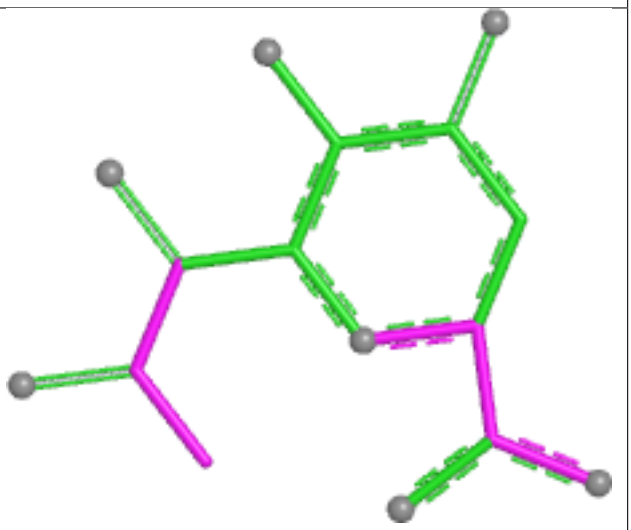


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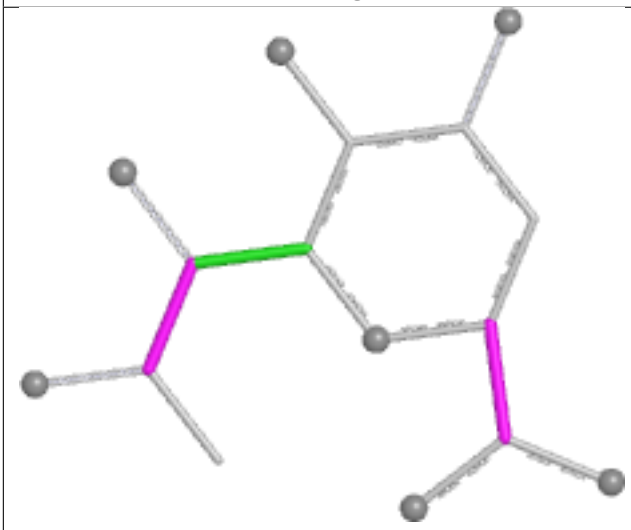
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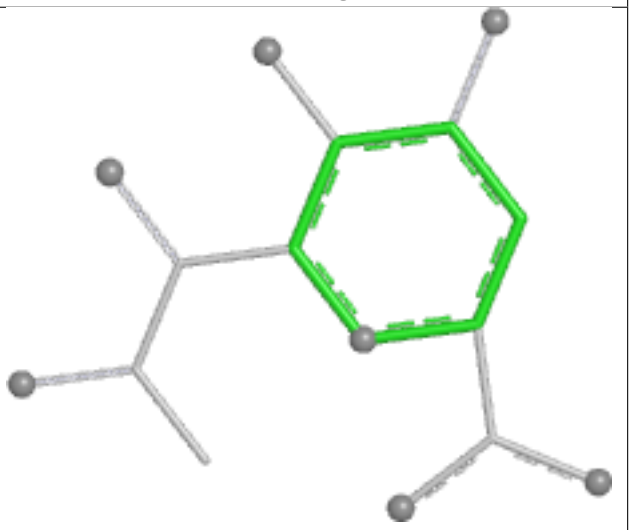
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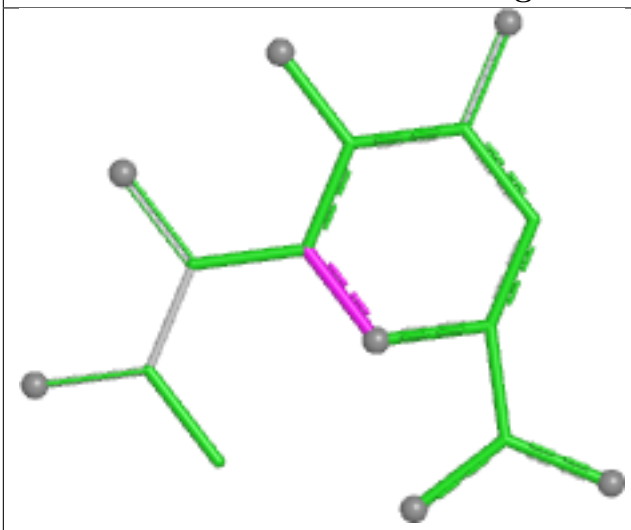


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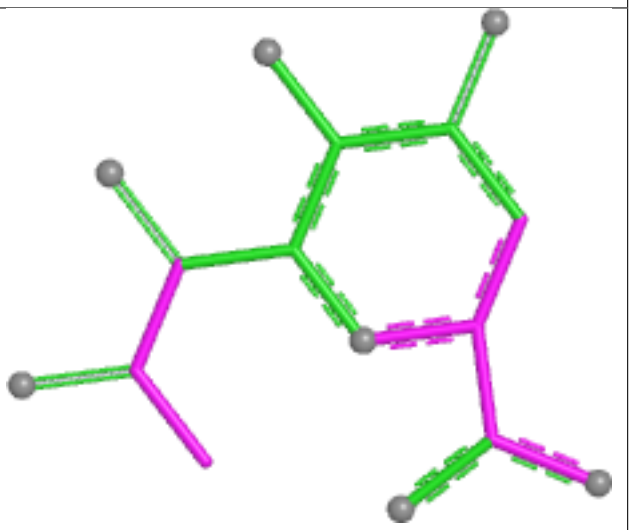


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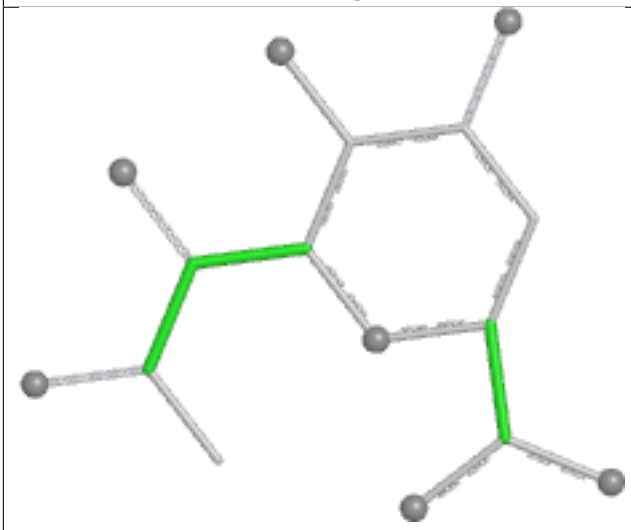
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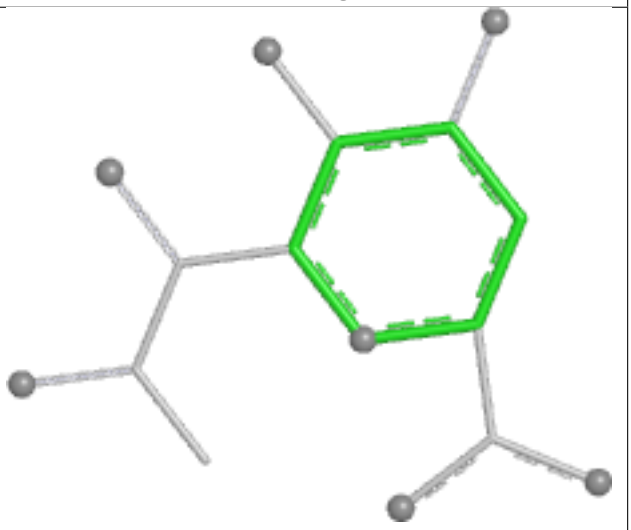
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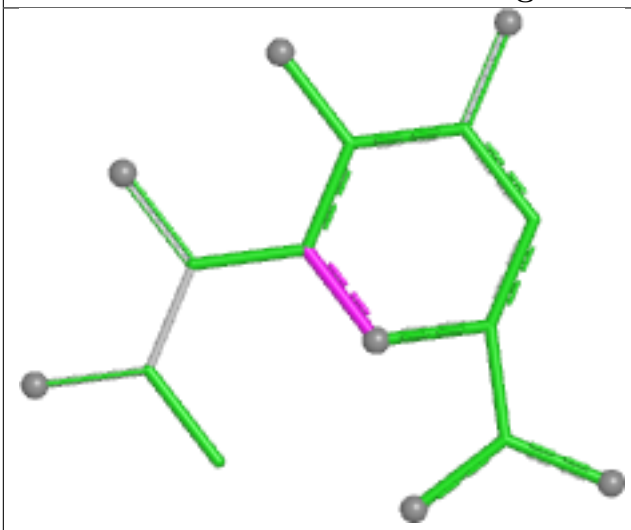


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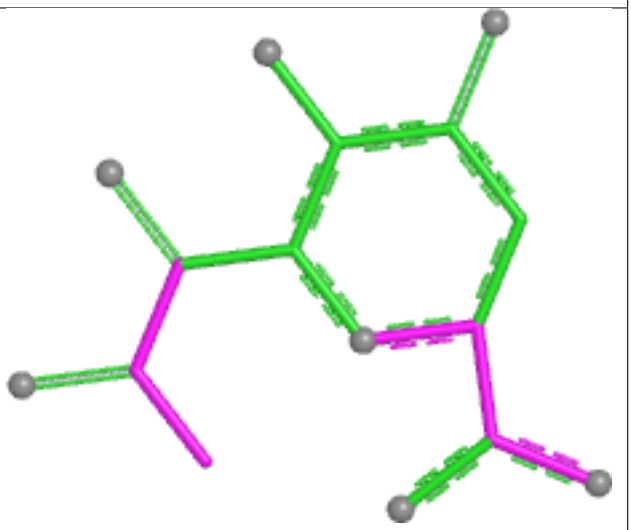


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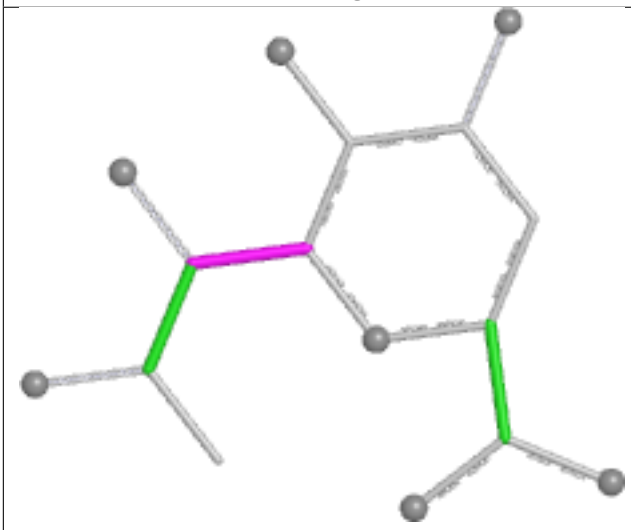
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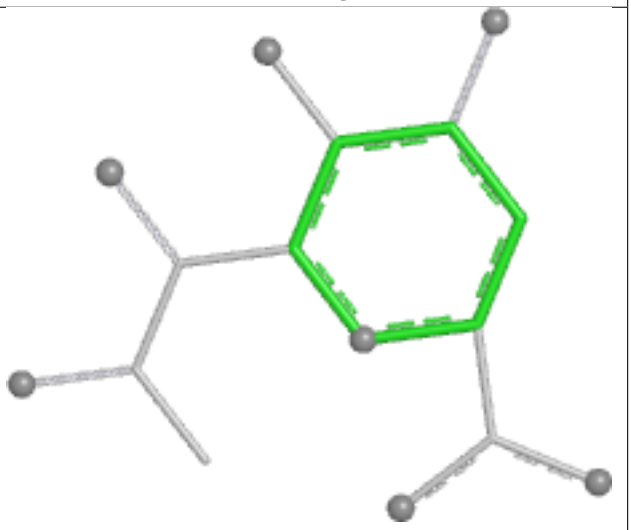
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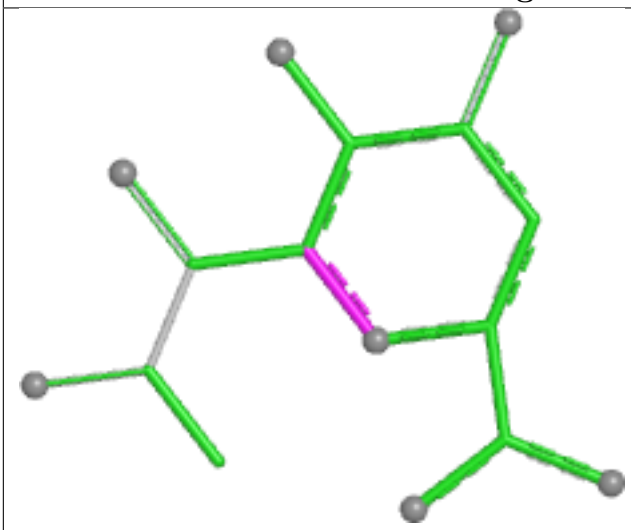


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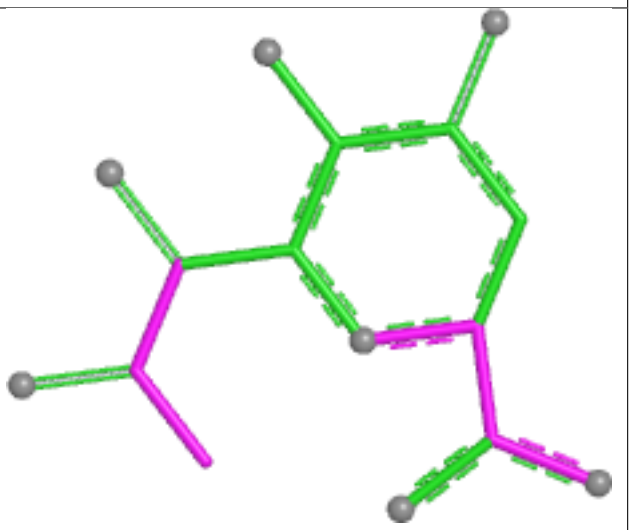


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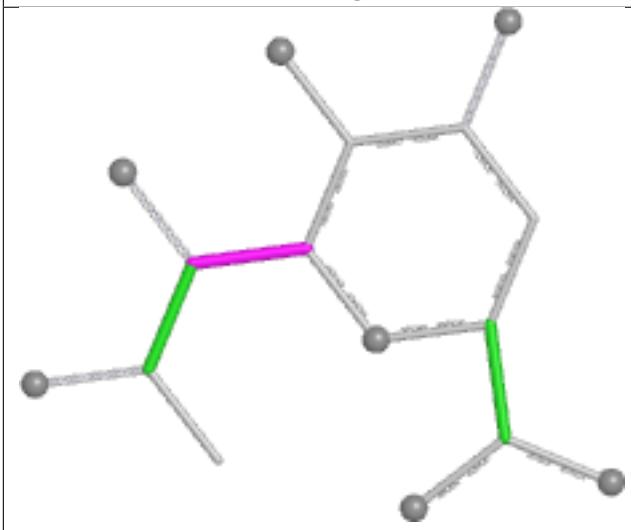
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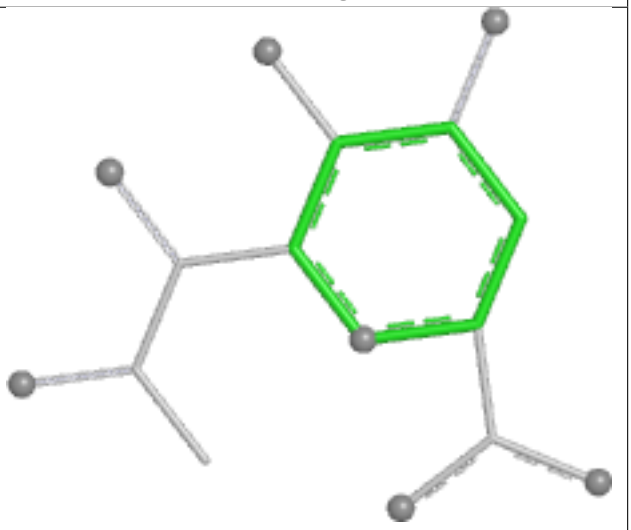
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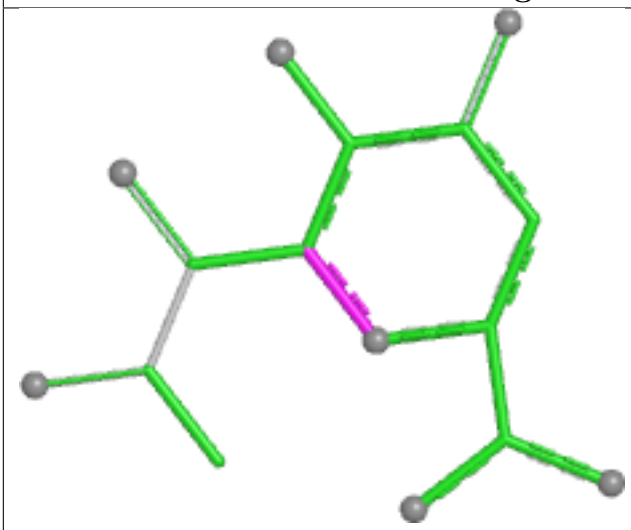


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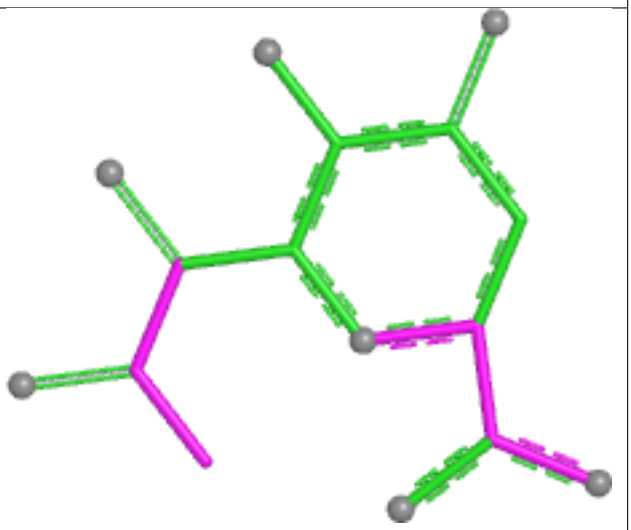


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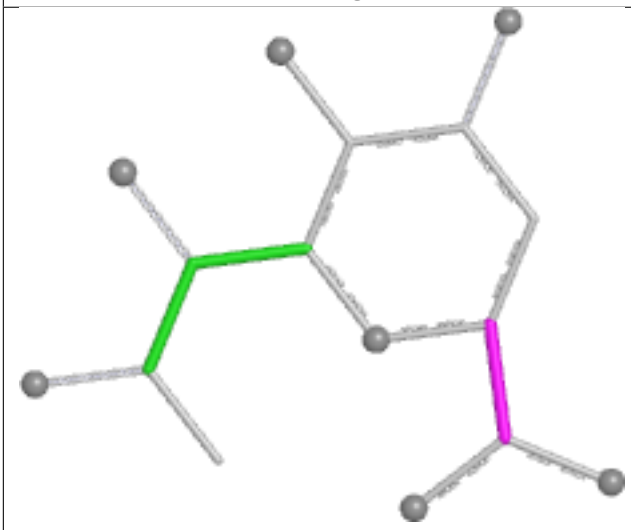
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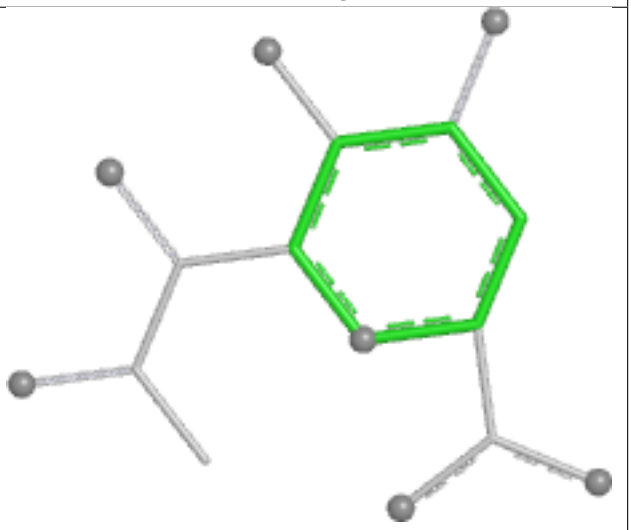
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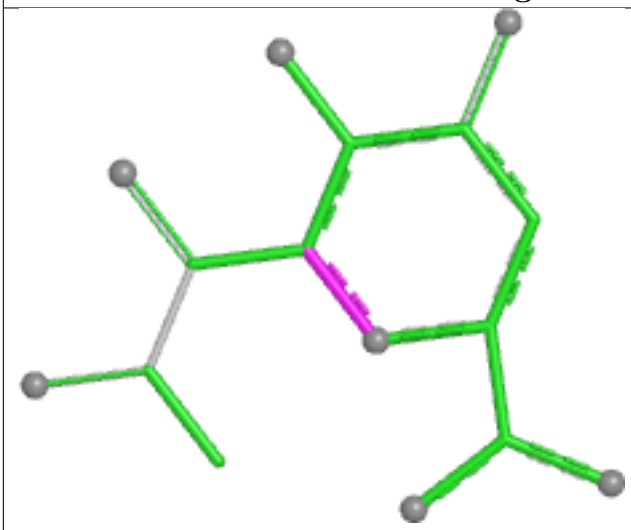


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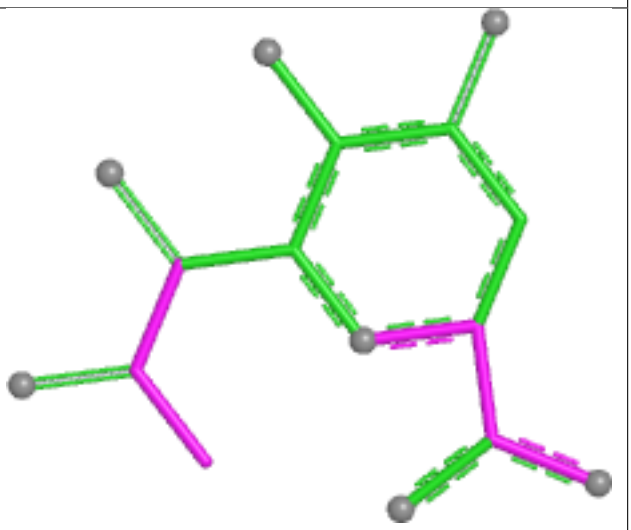


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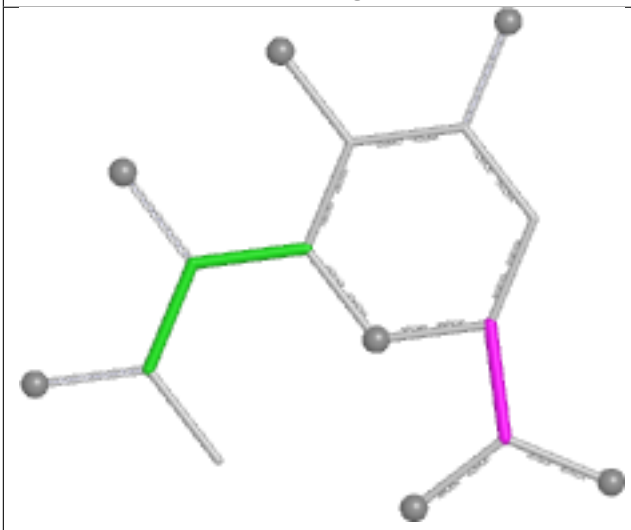
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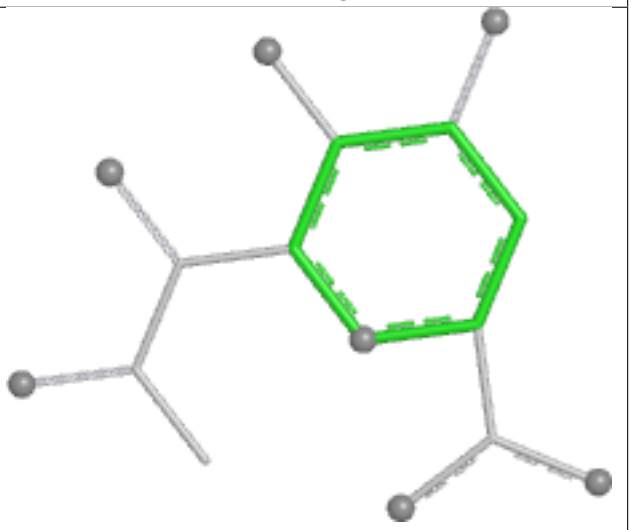
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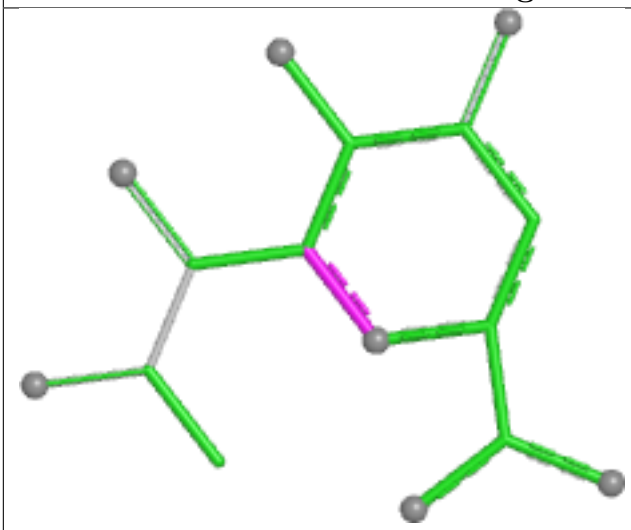


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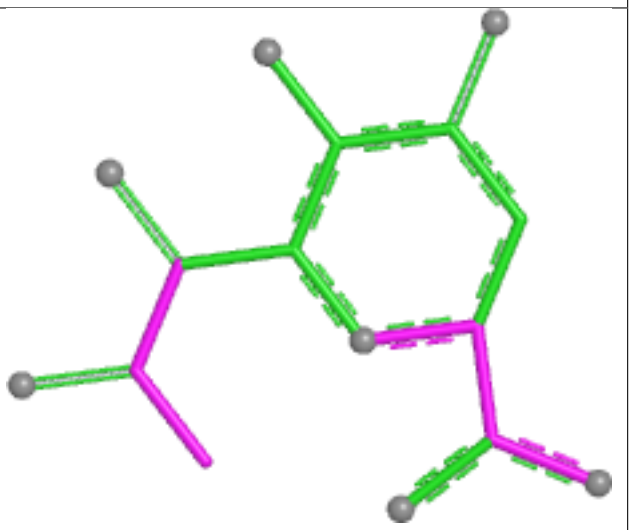


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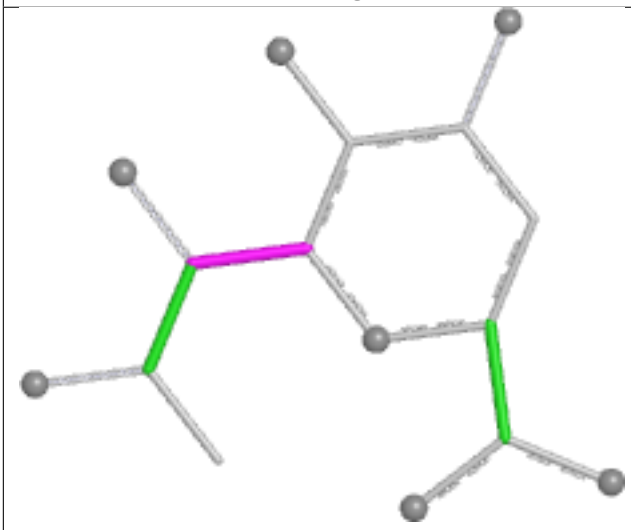
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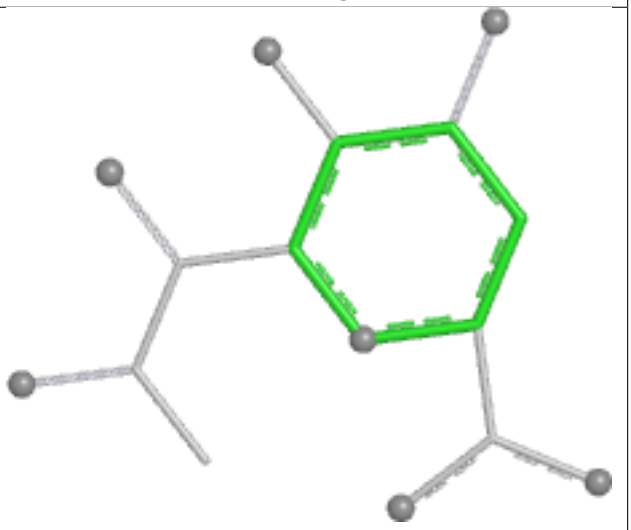
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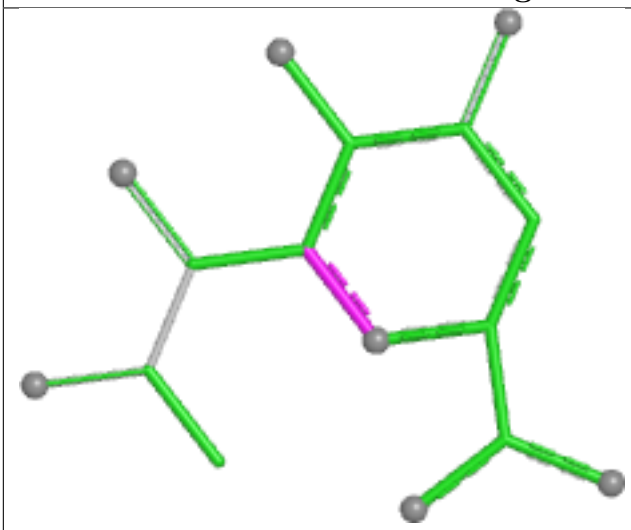


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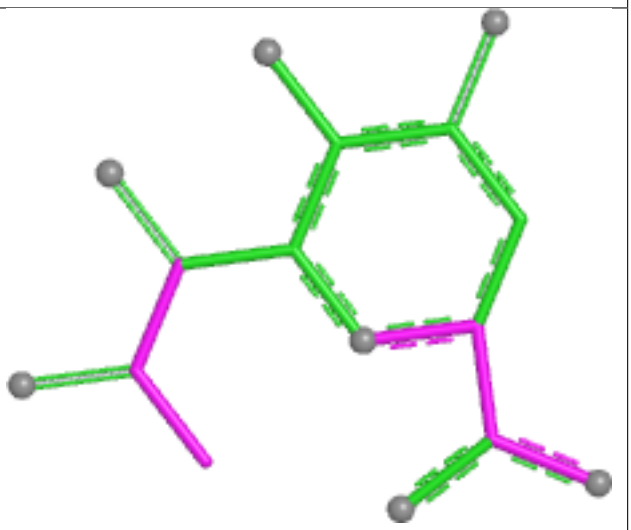


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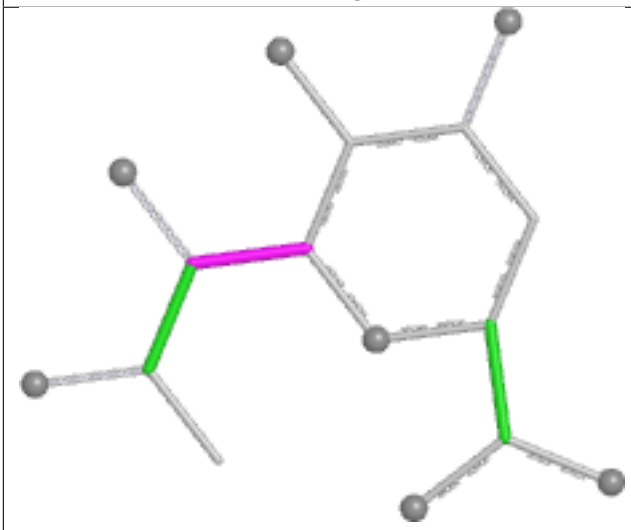
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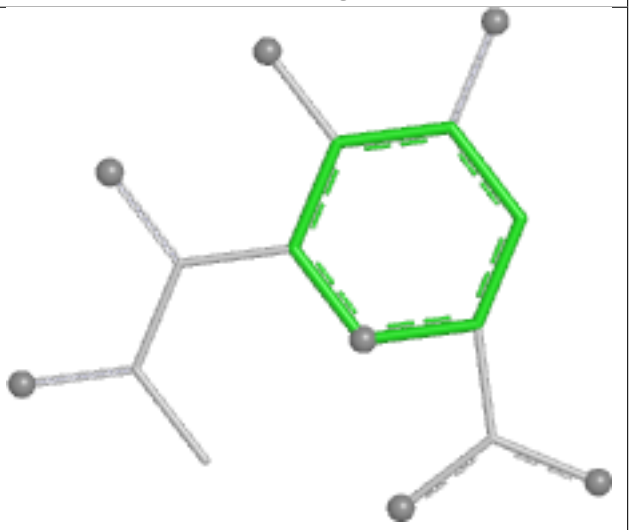
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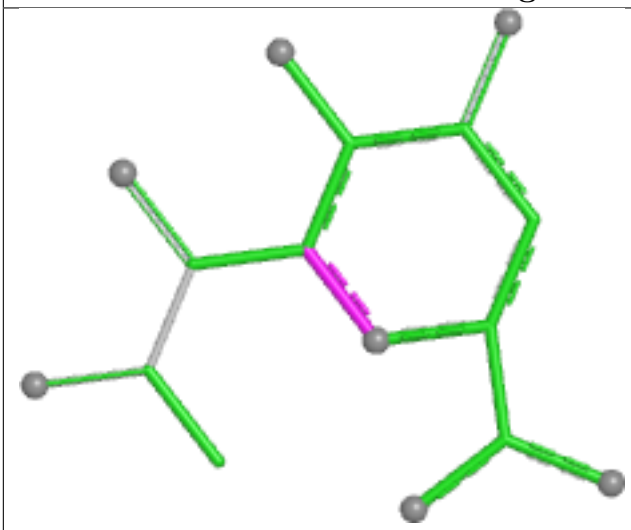


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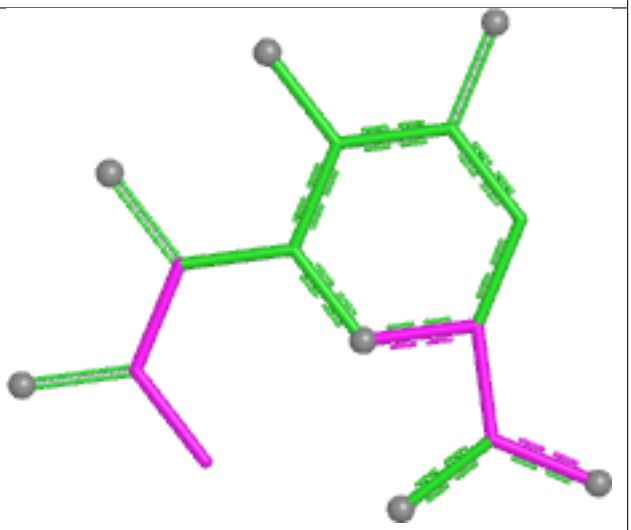


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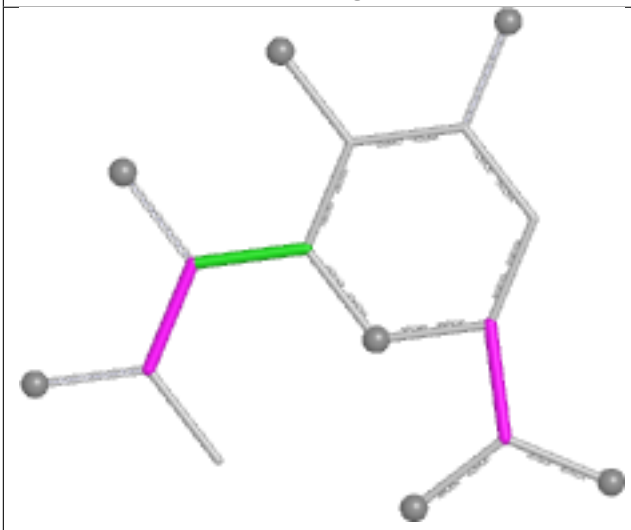
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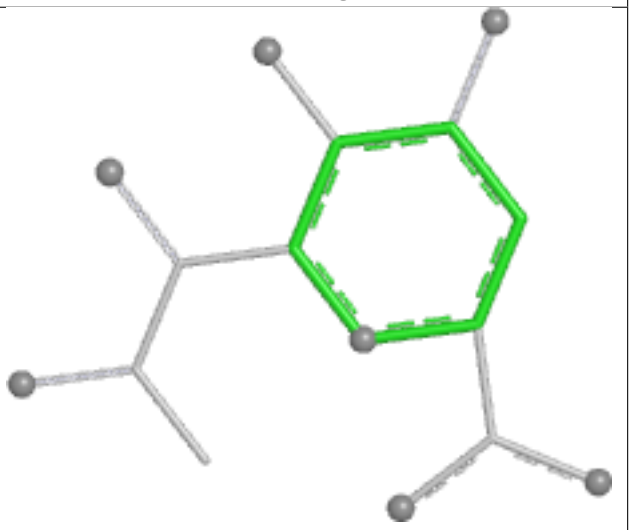
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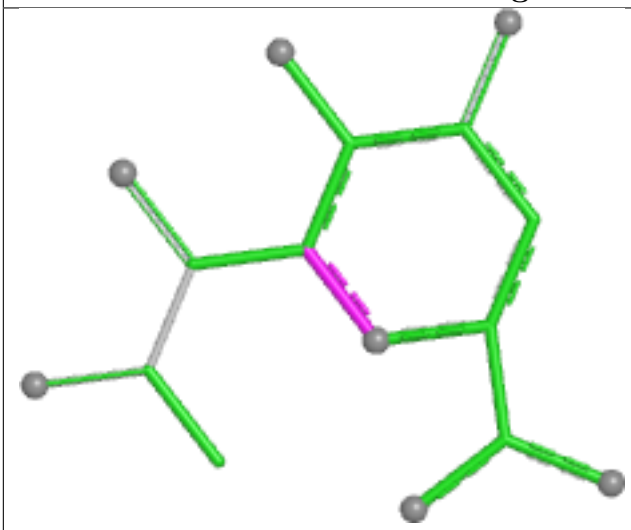


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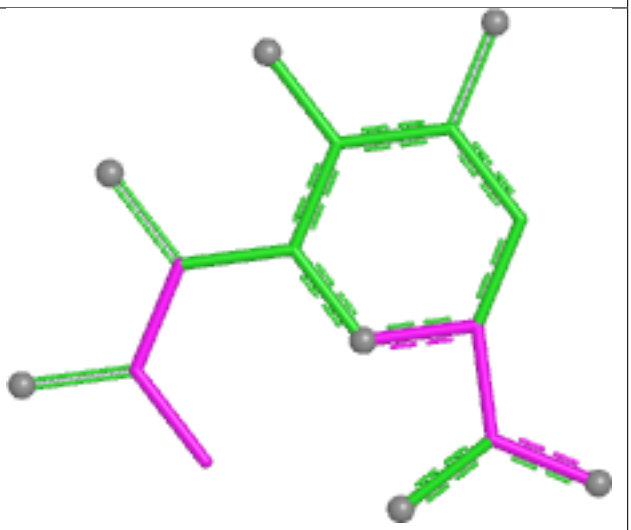


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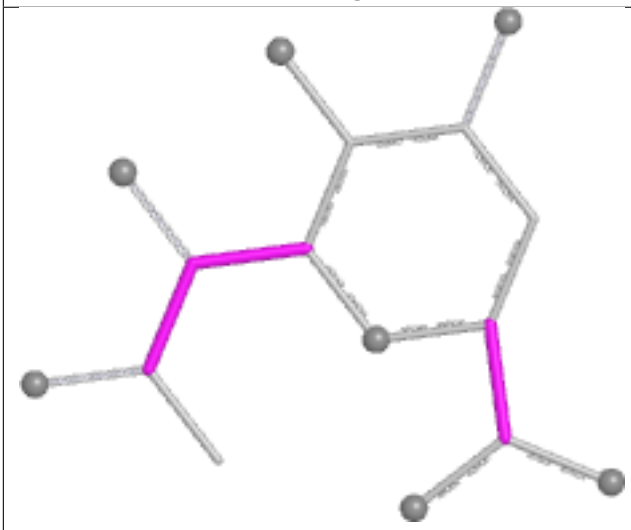
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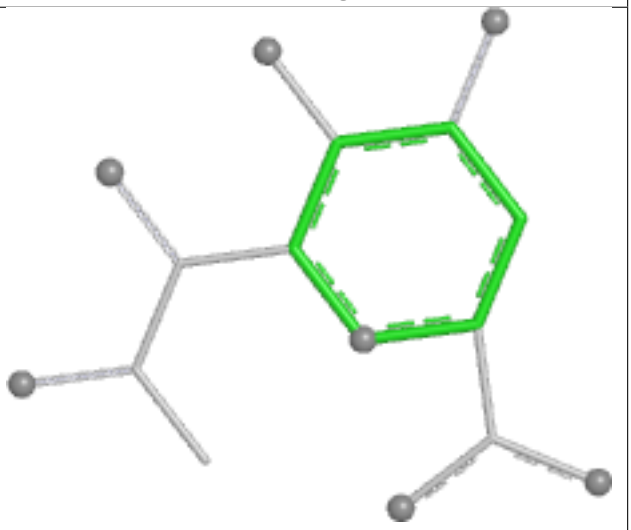
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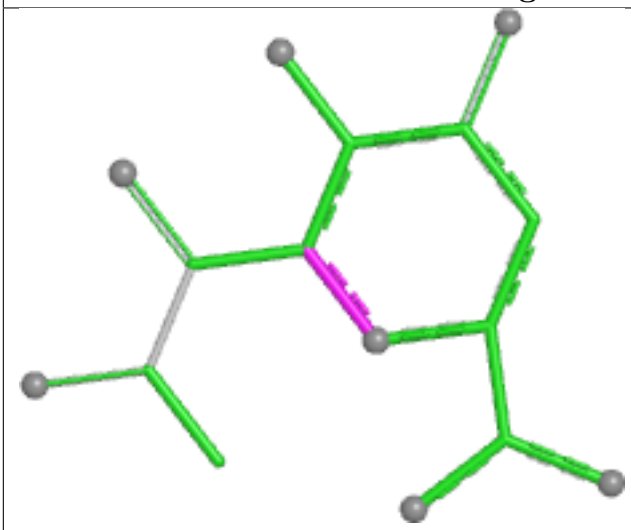


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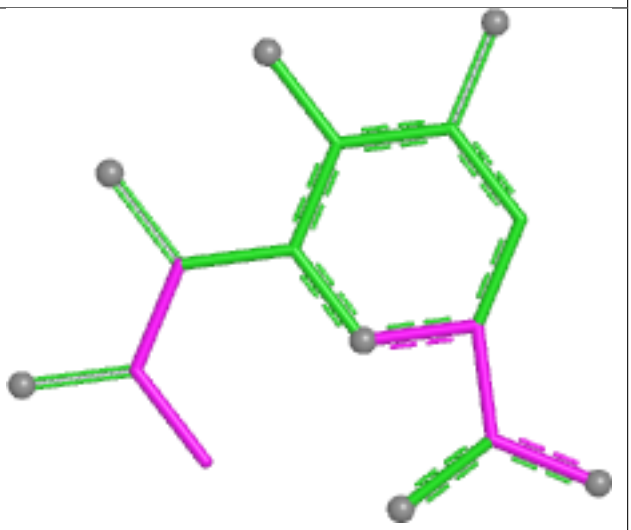


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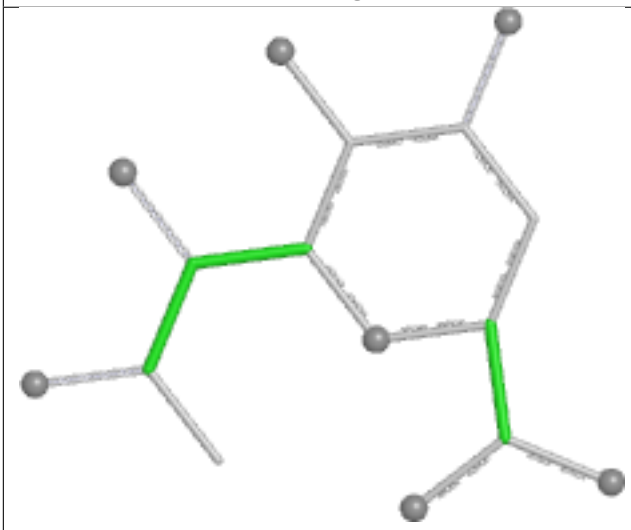
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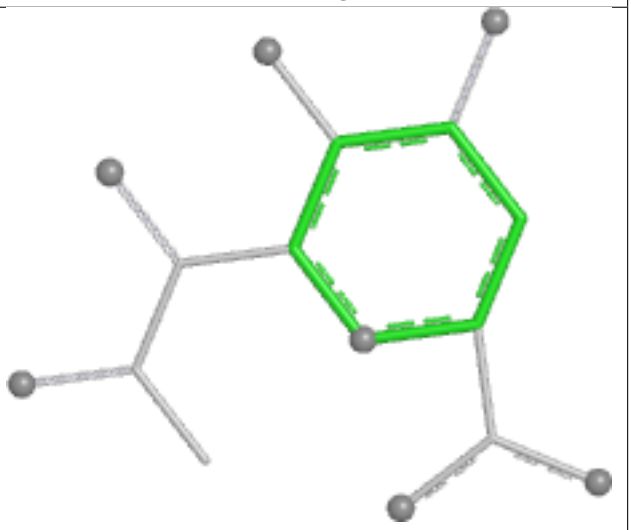
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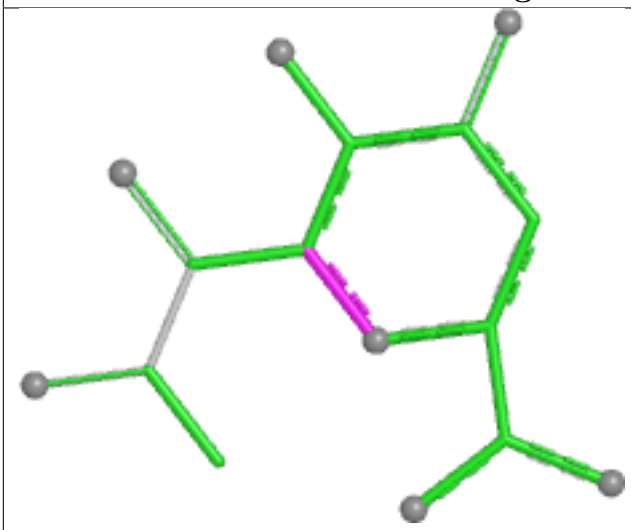


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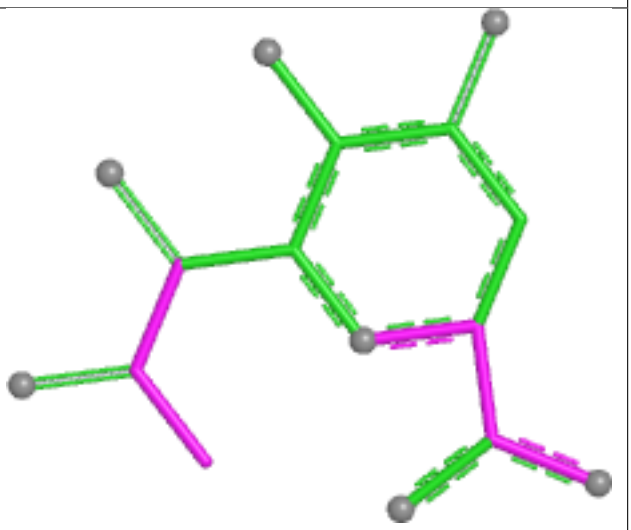


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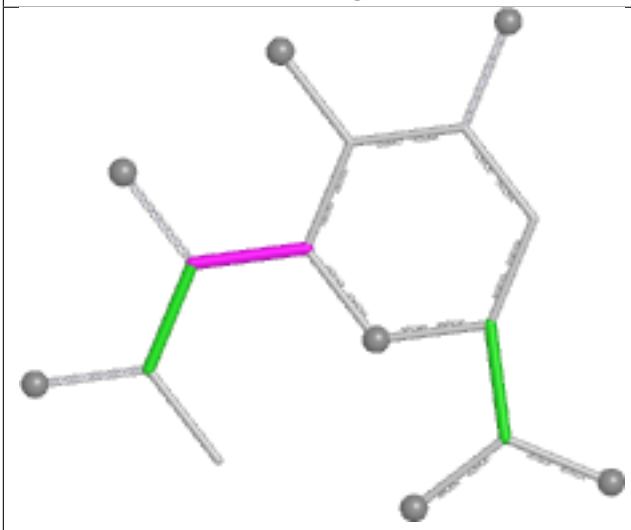
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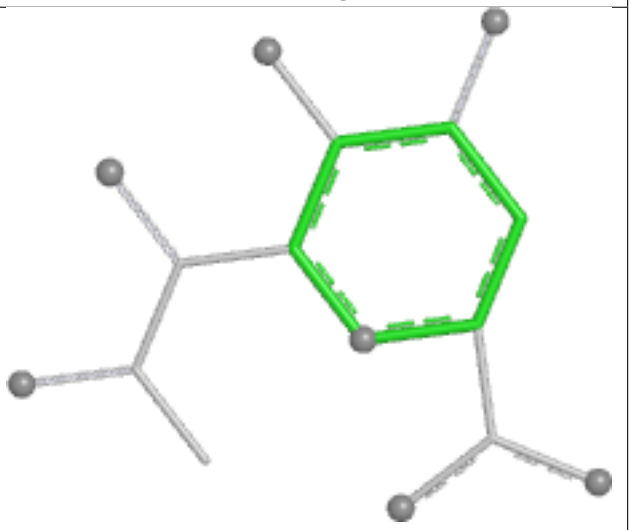
Bond lengths



Bond angles

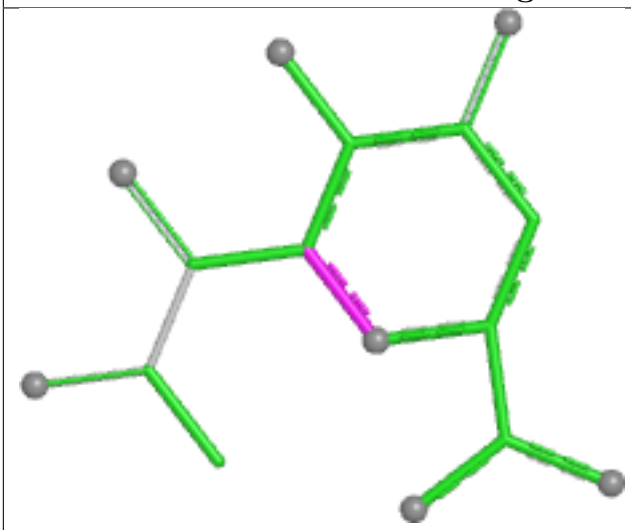


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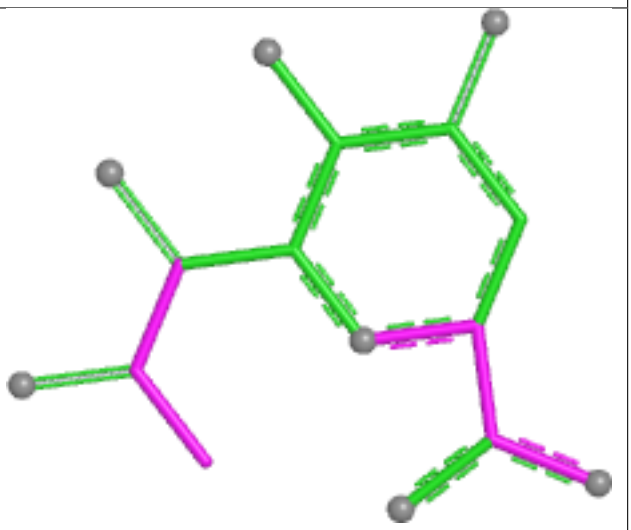


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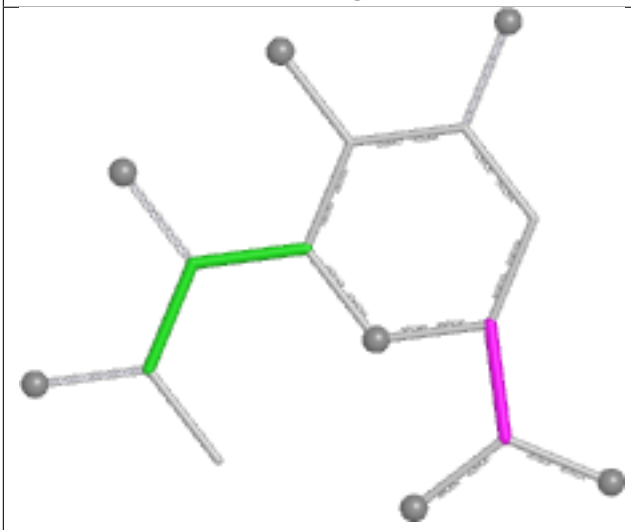
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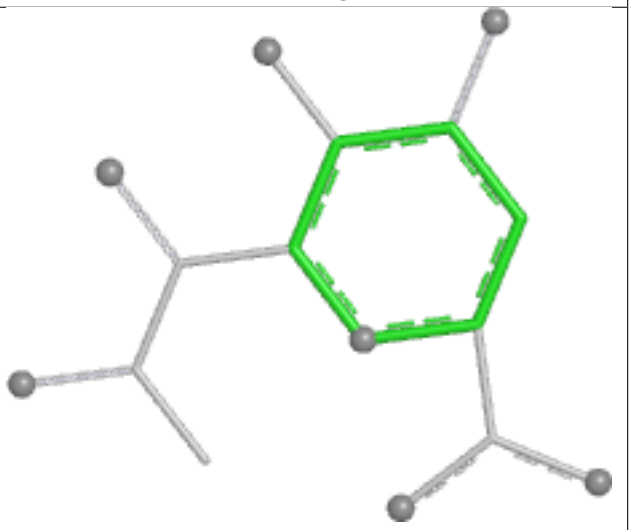
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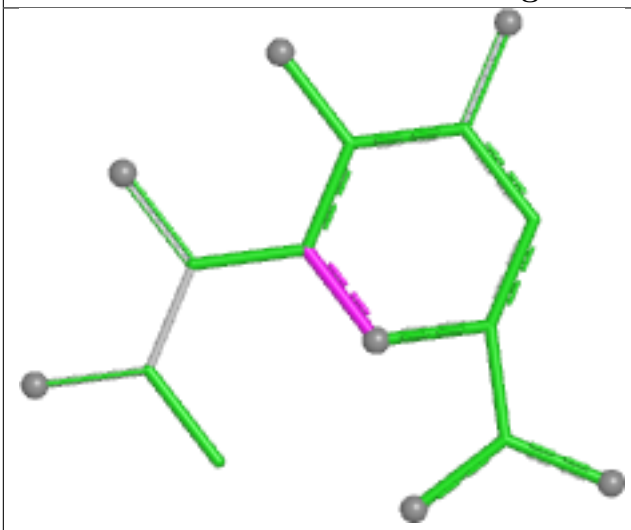


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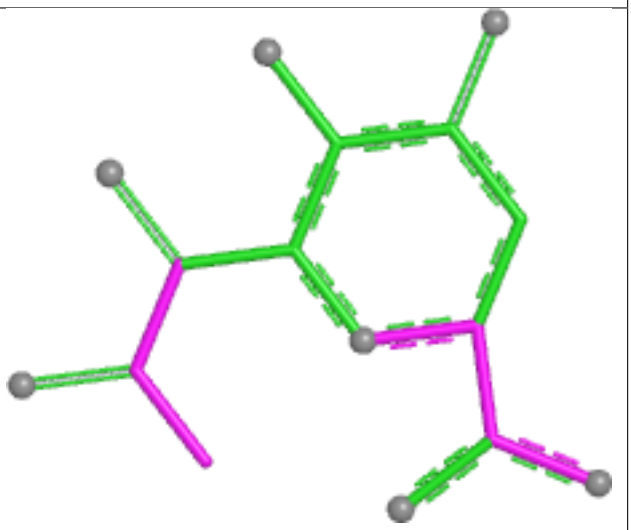


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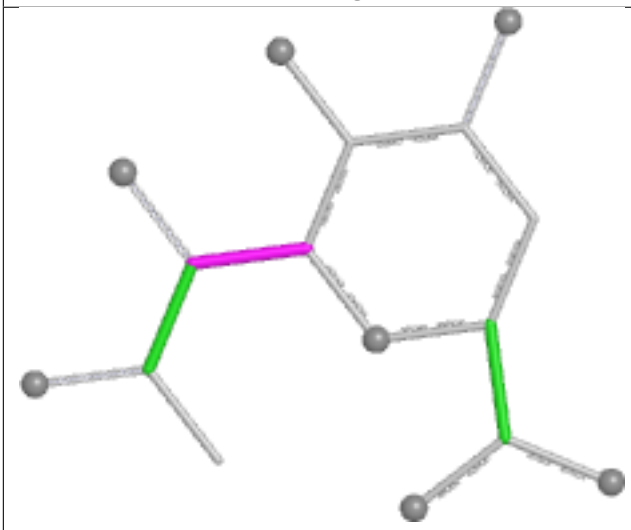
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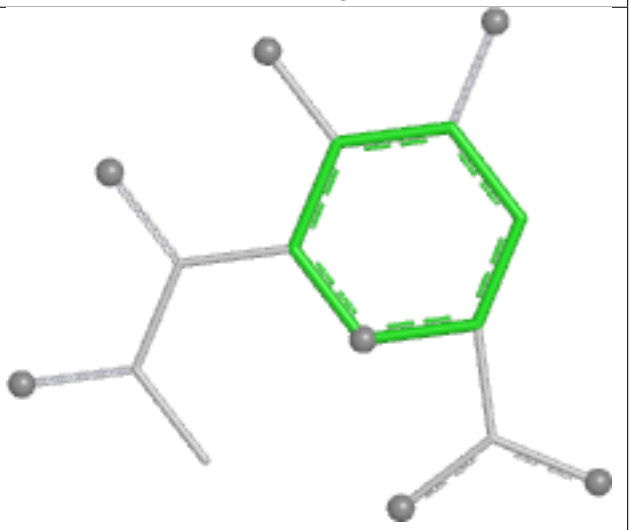
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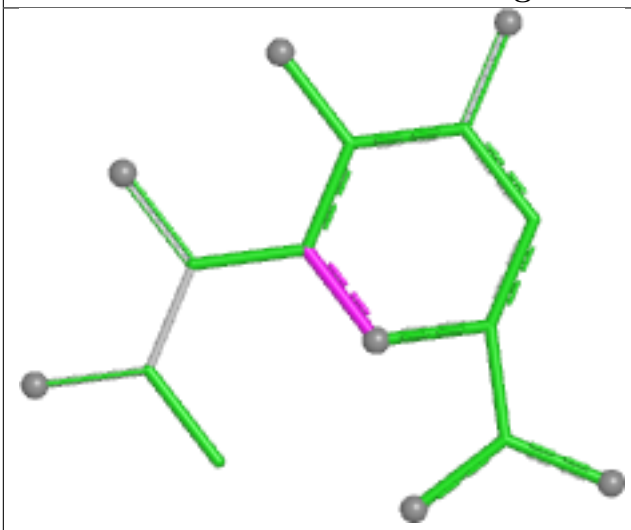


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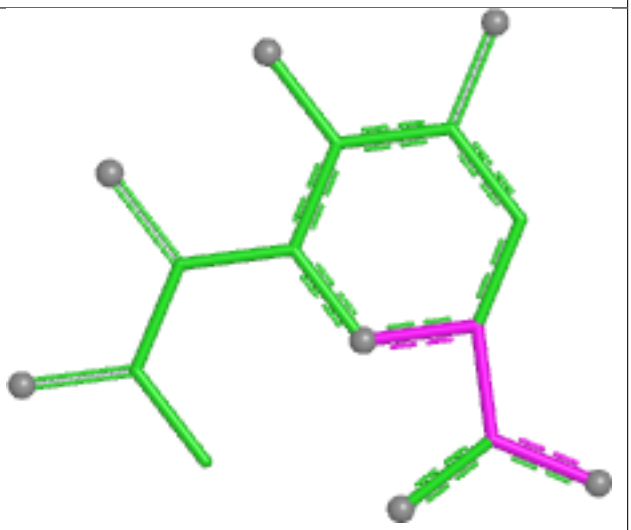


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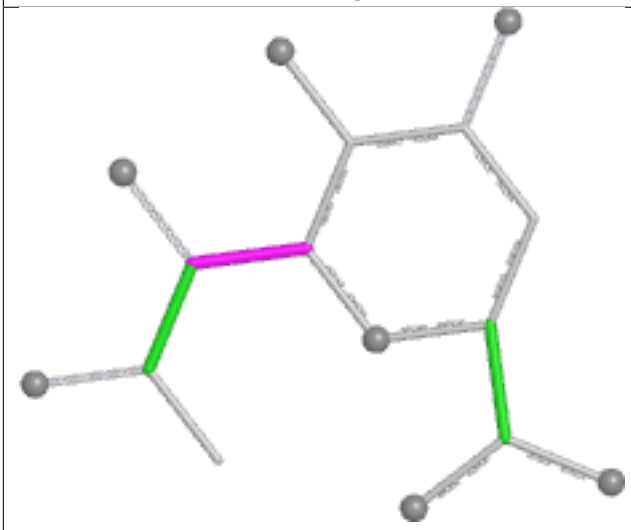
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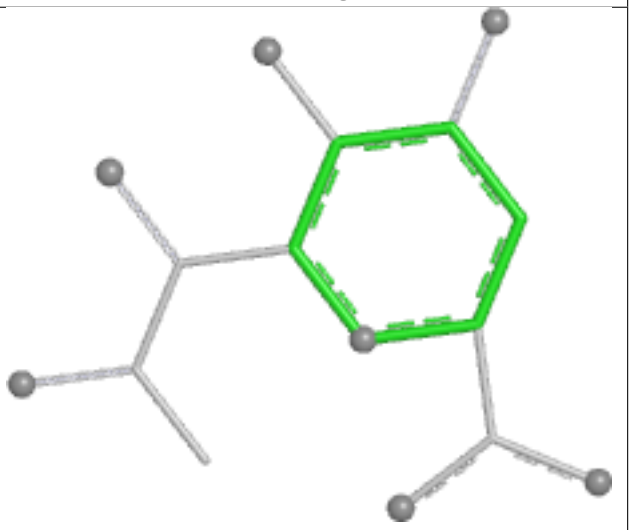
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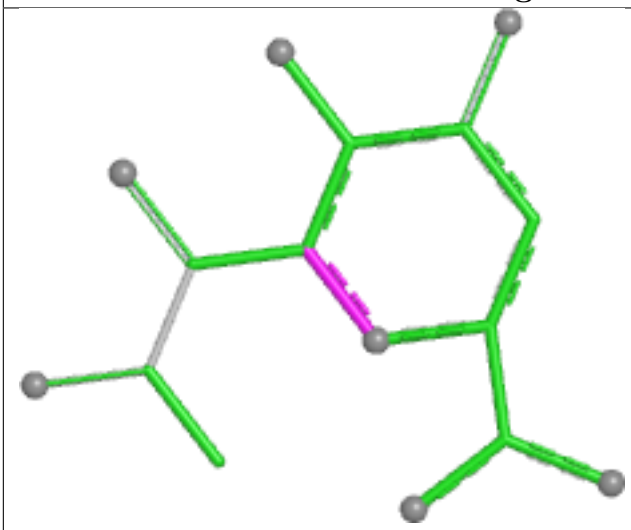


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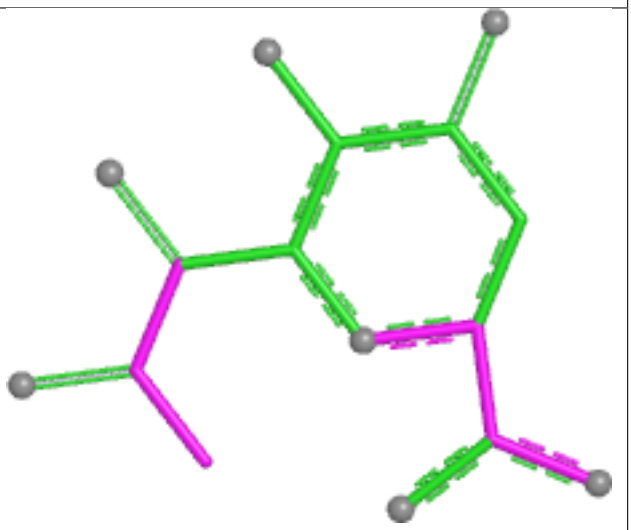


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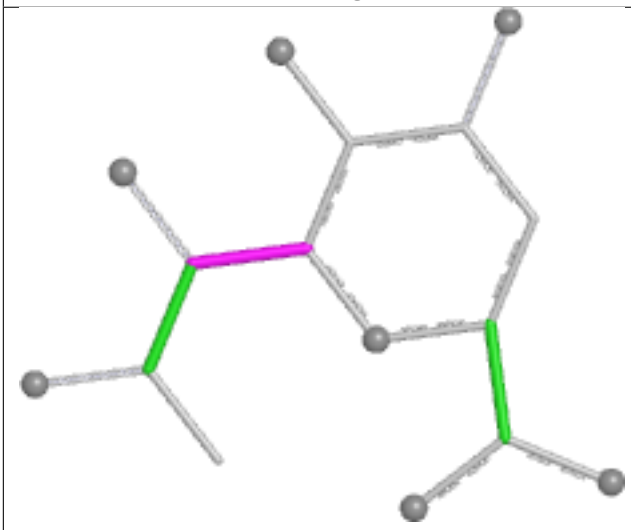
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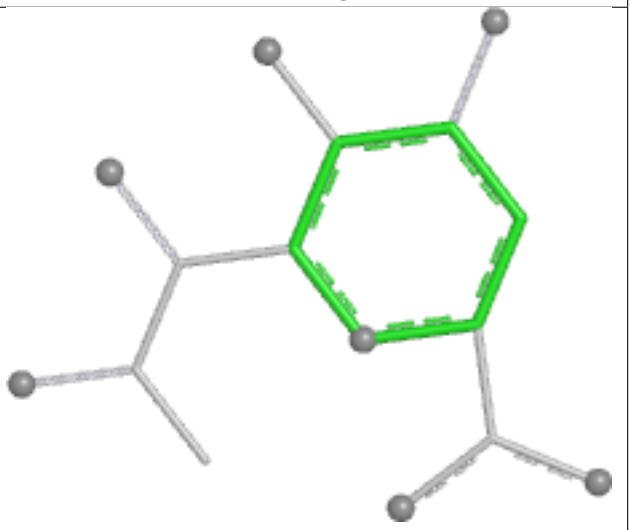
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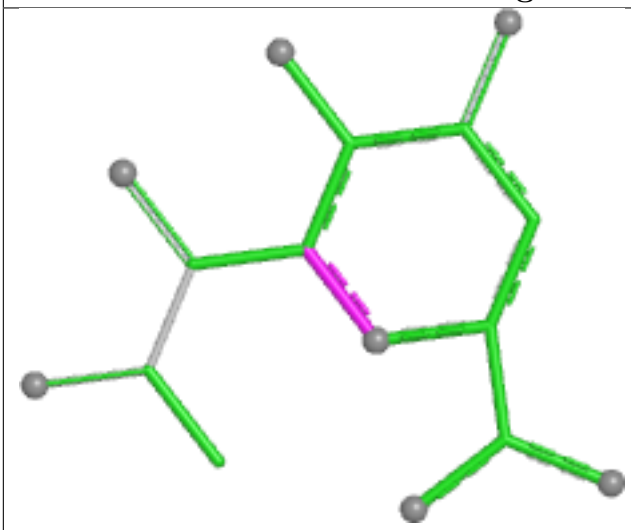


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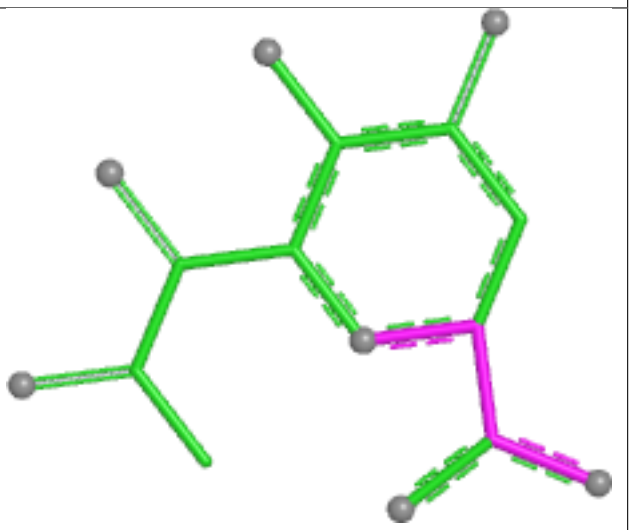


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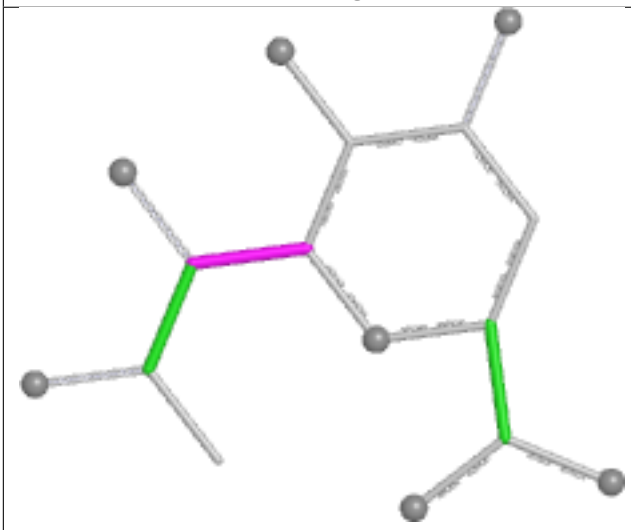
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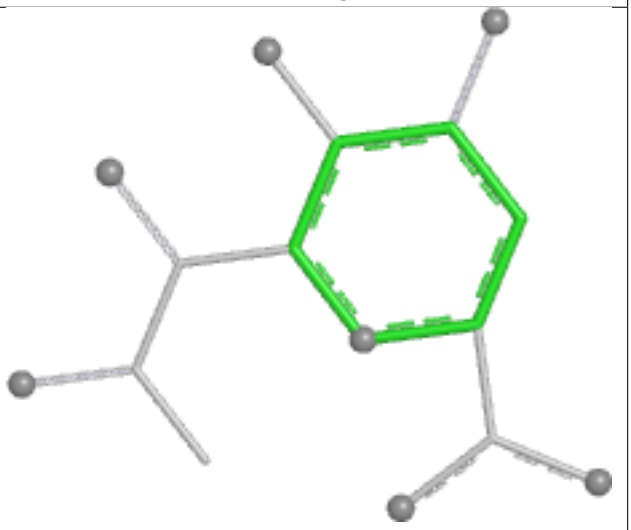
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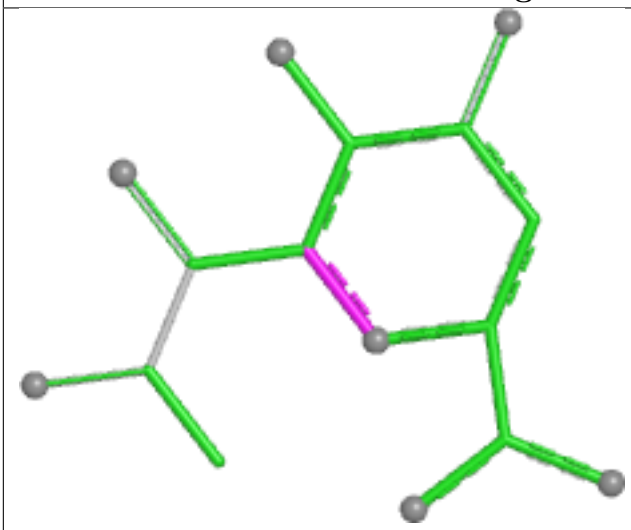


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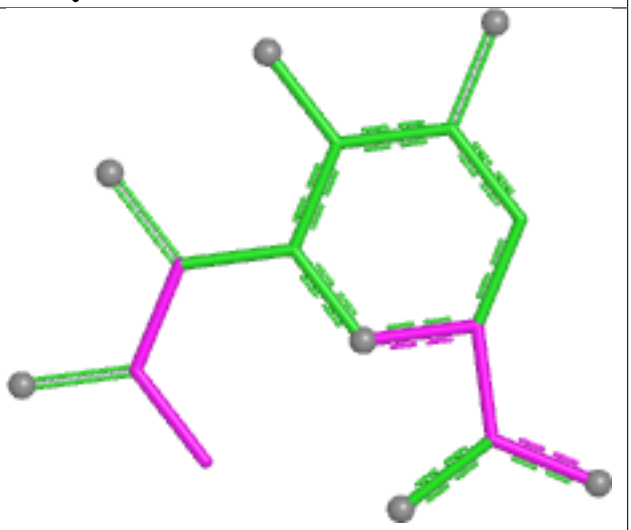


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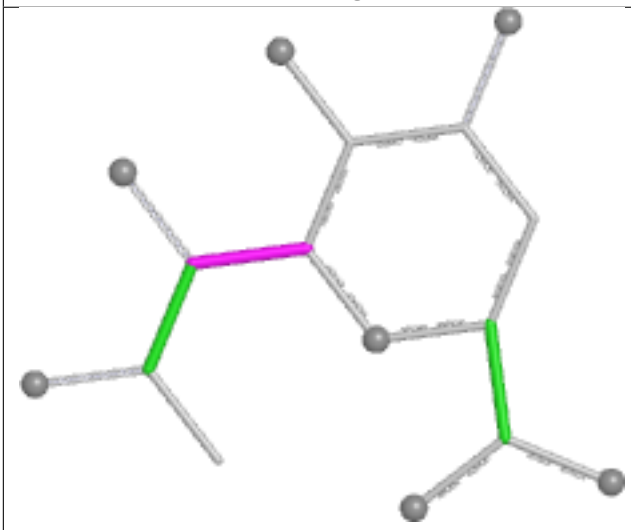
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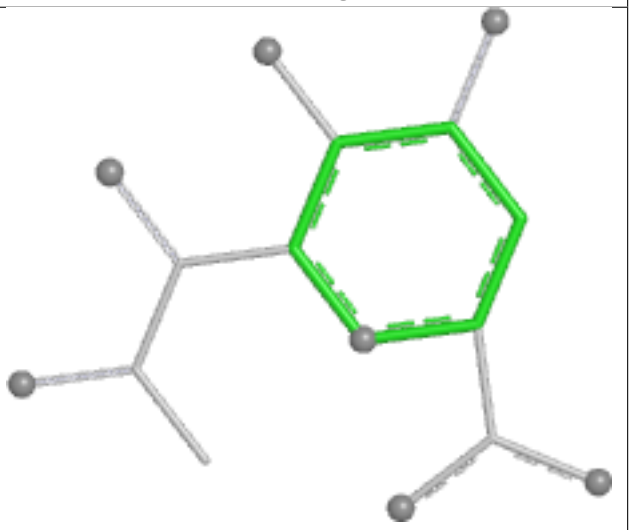
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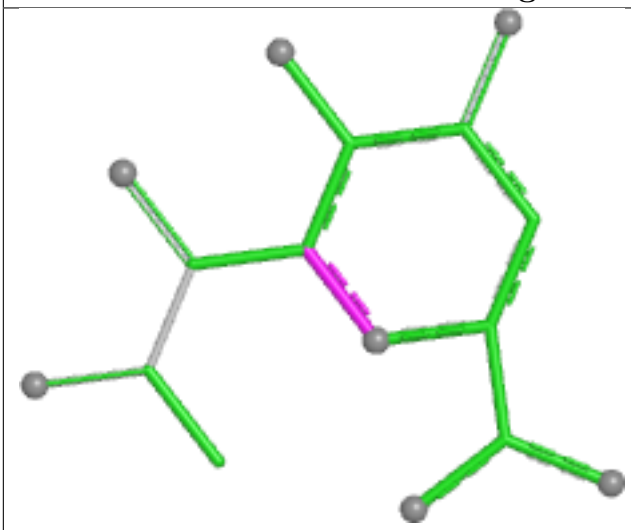


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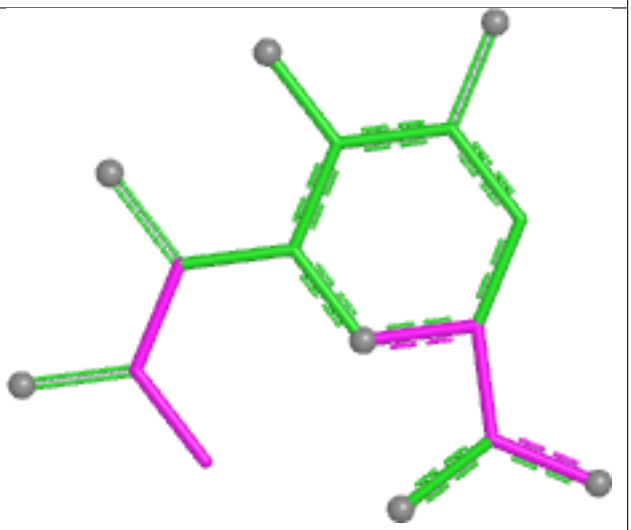


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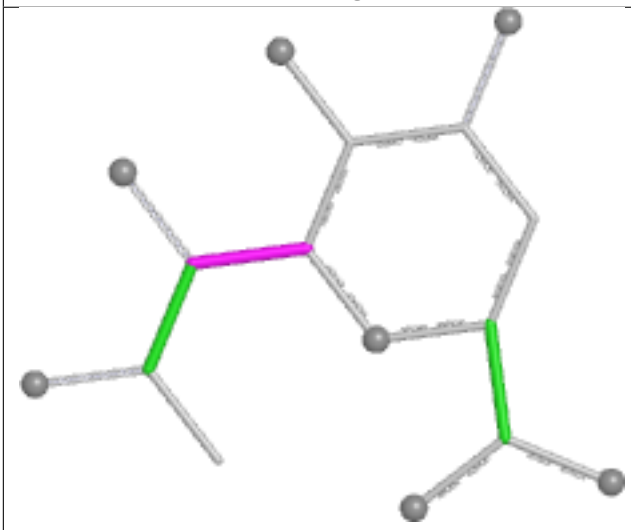
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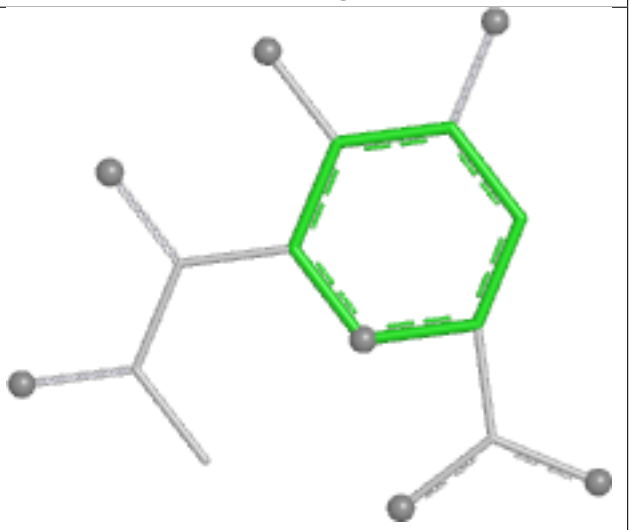
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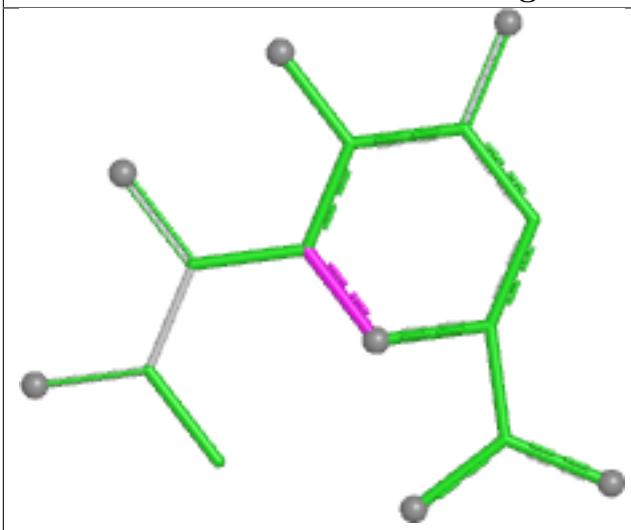


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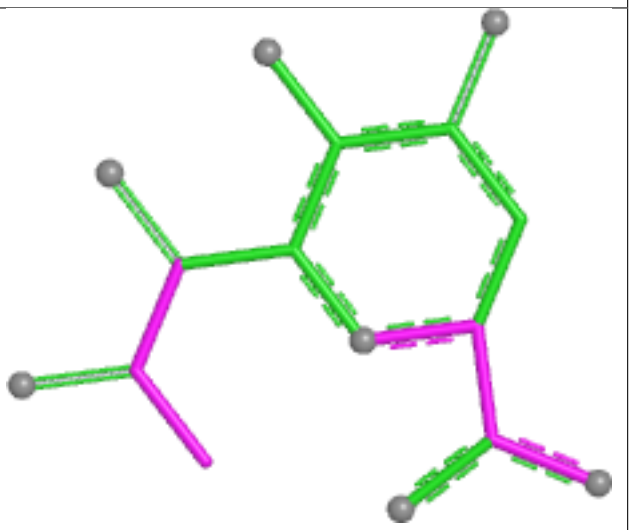


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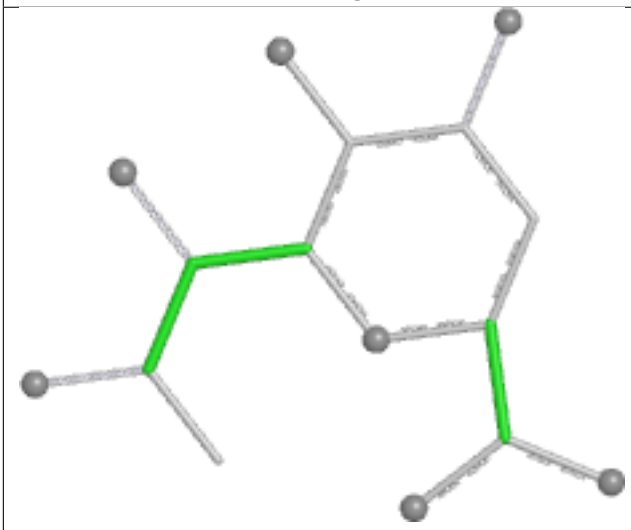
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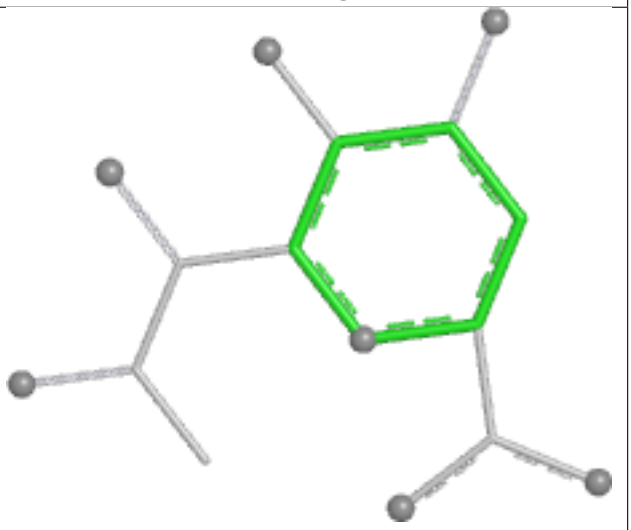
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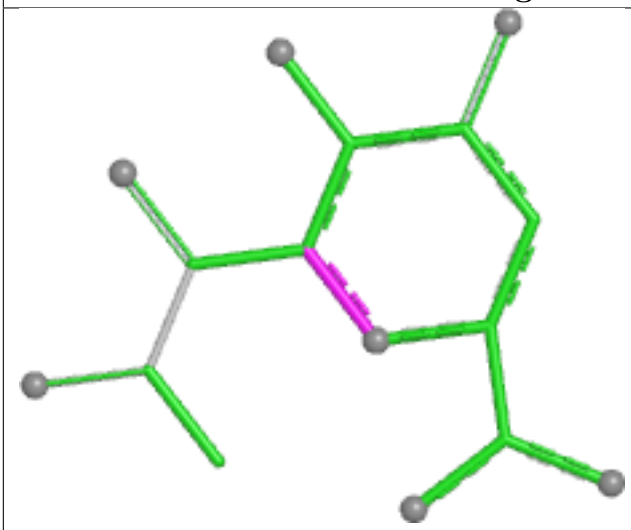


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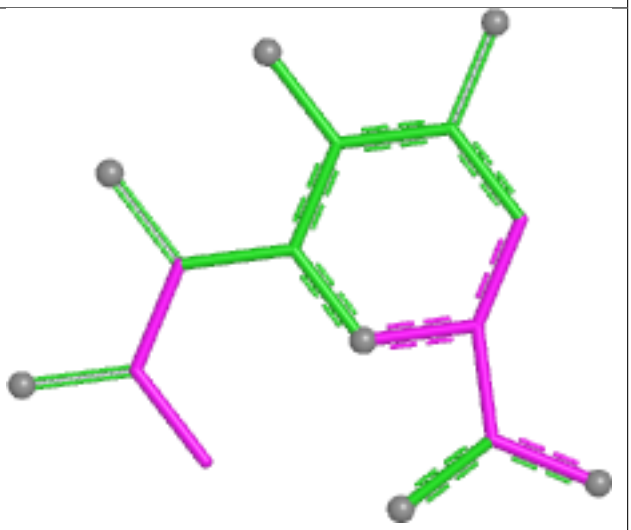


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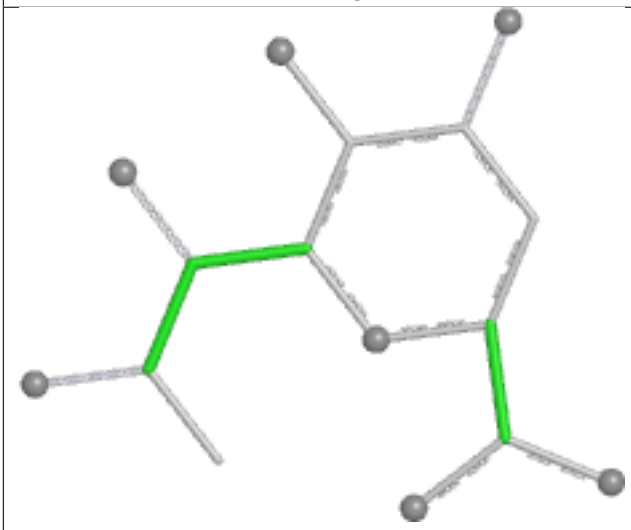
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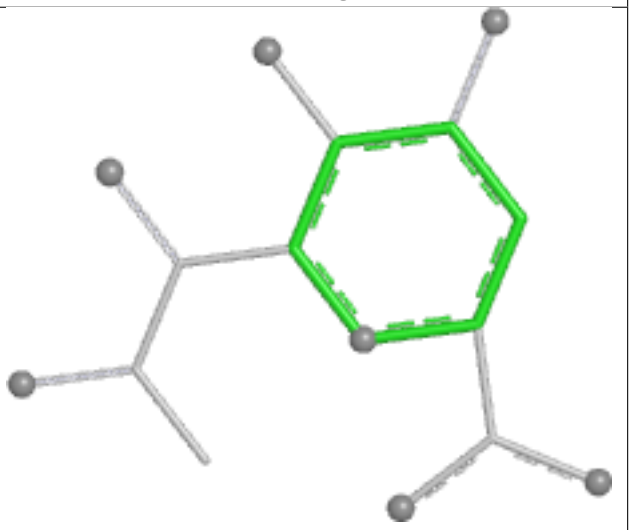
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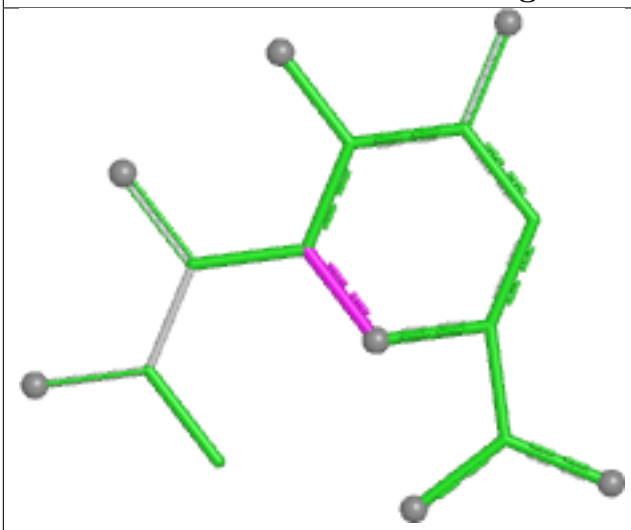


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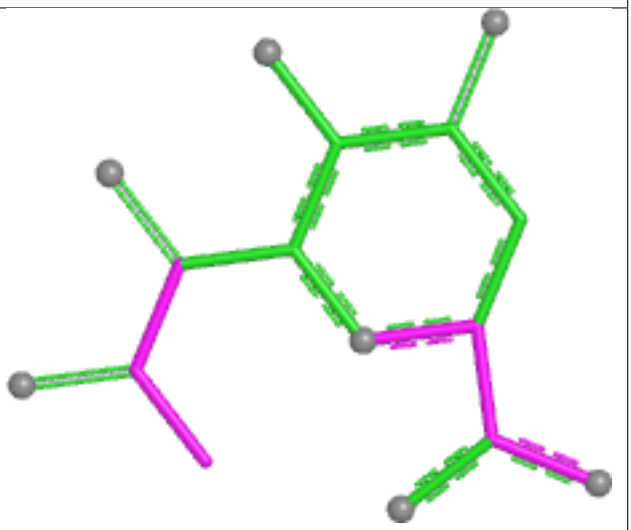


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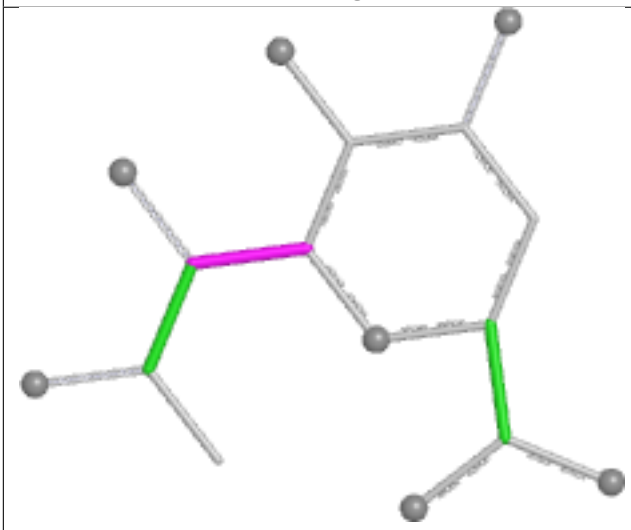
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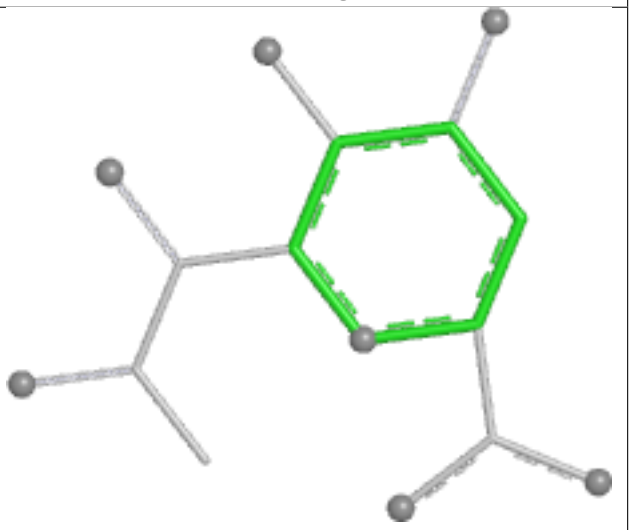
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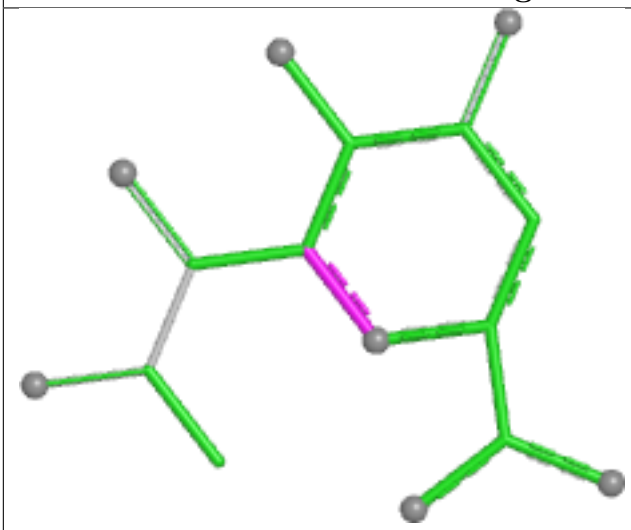


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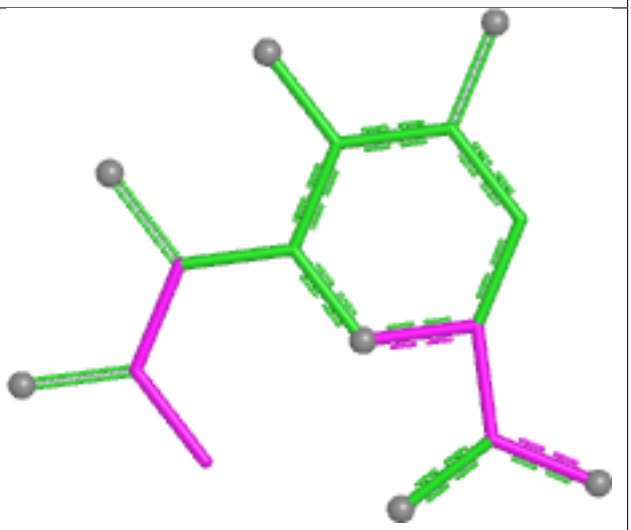


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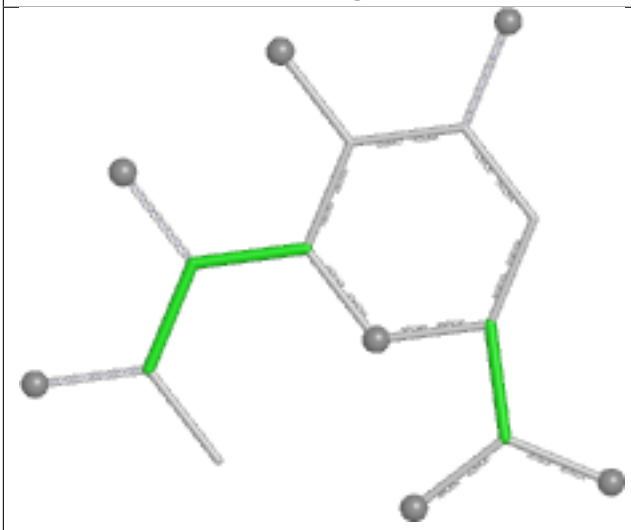
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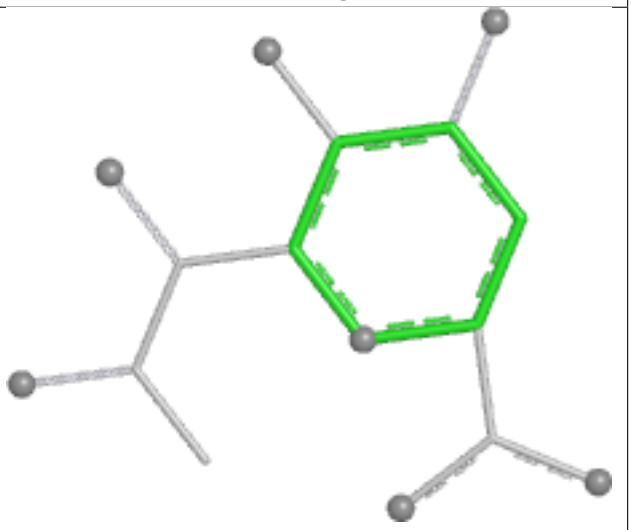
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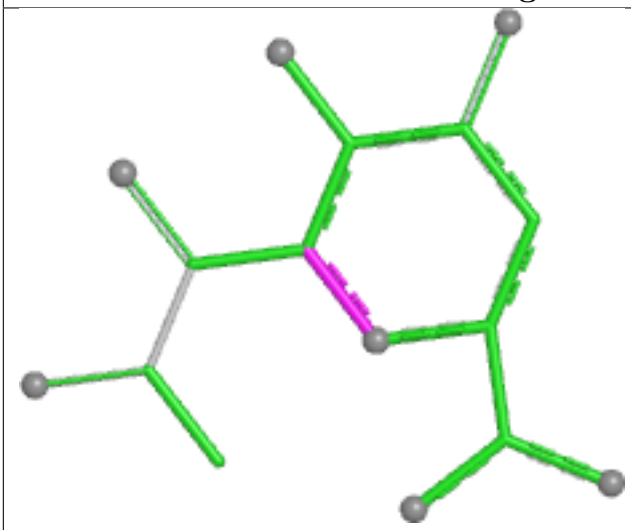


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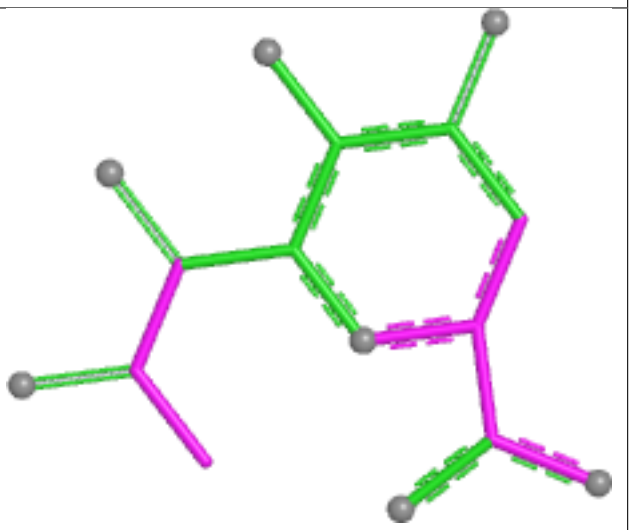


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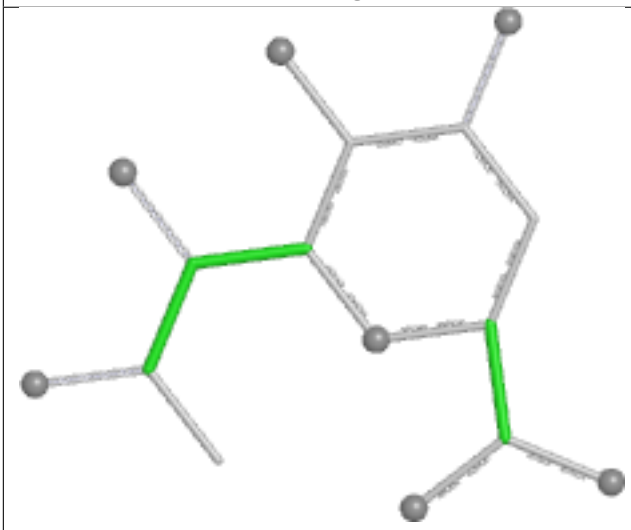
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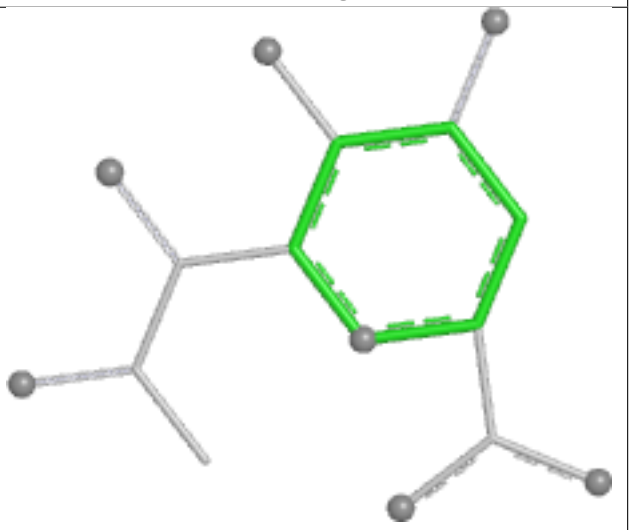
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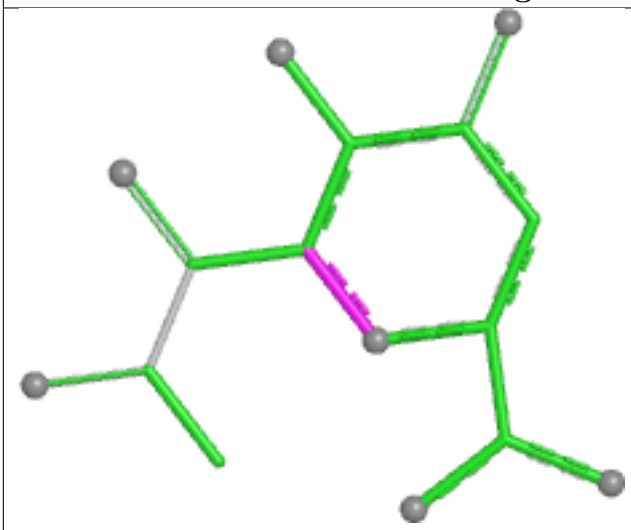


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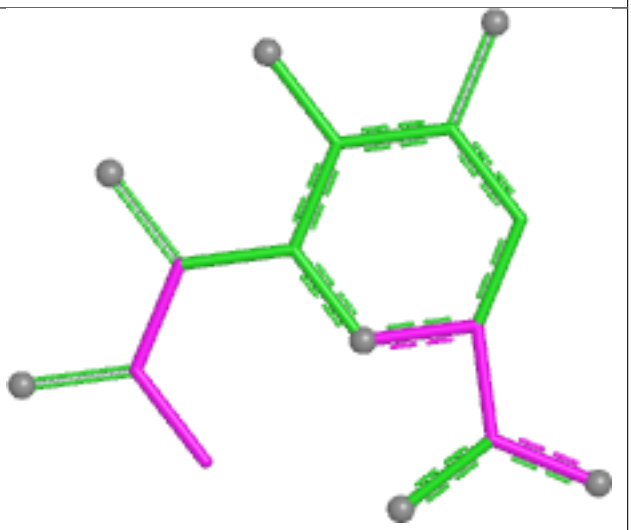


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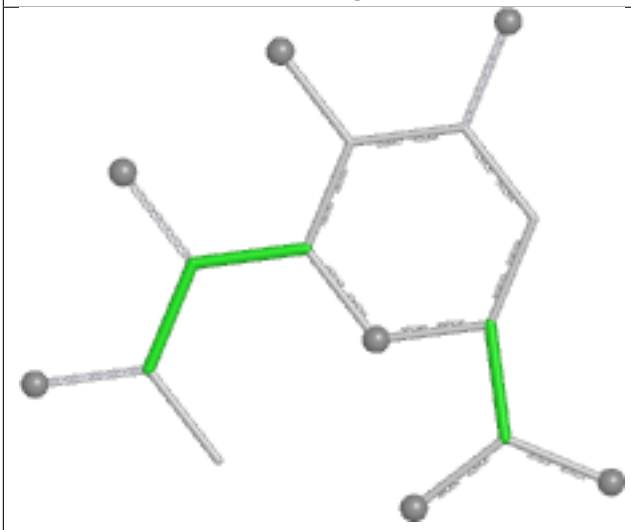
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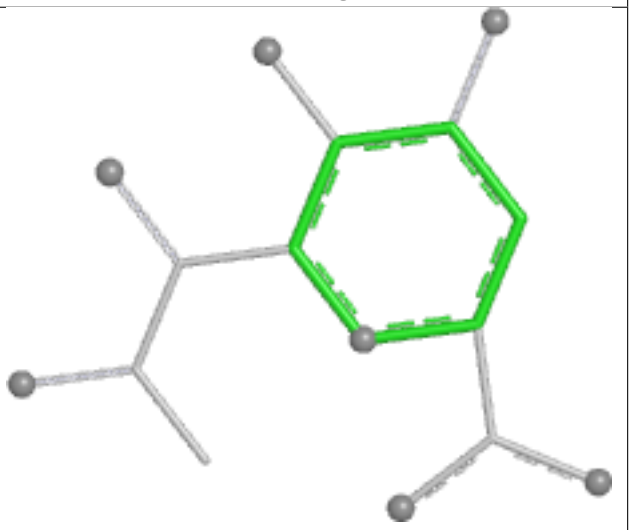
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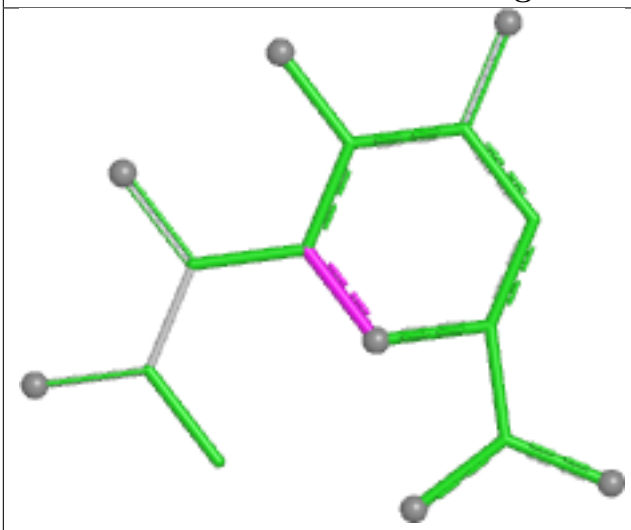


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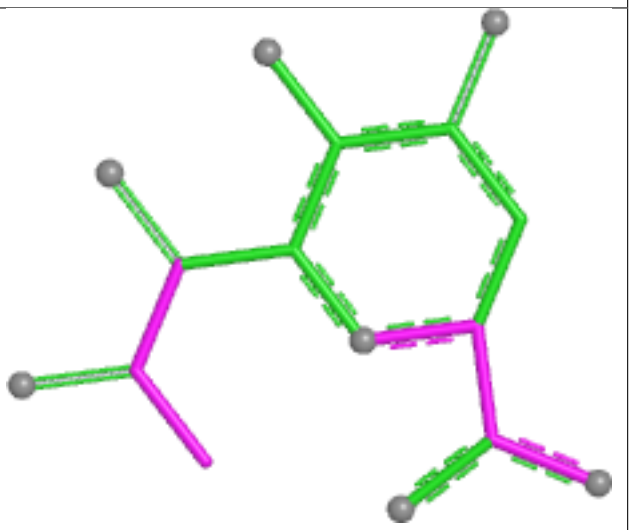


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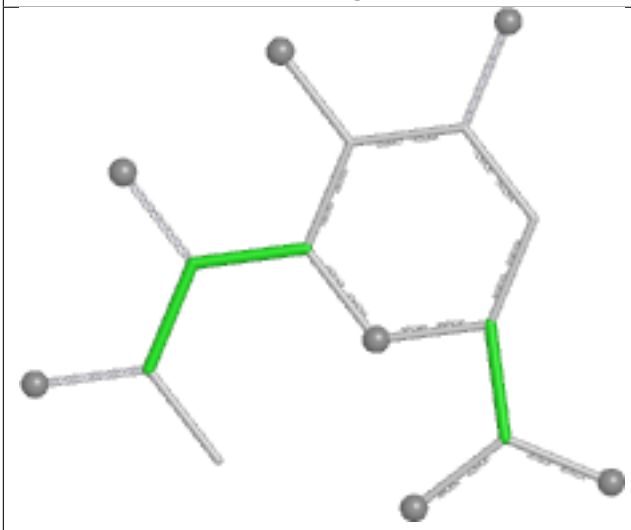
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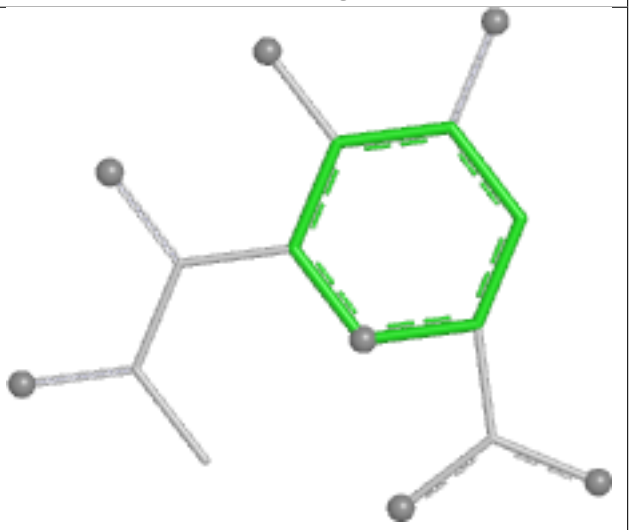
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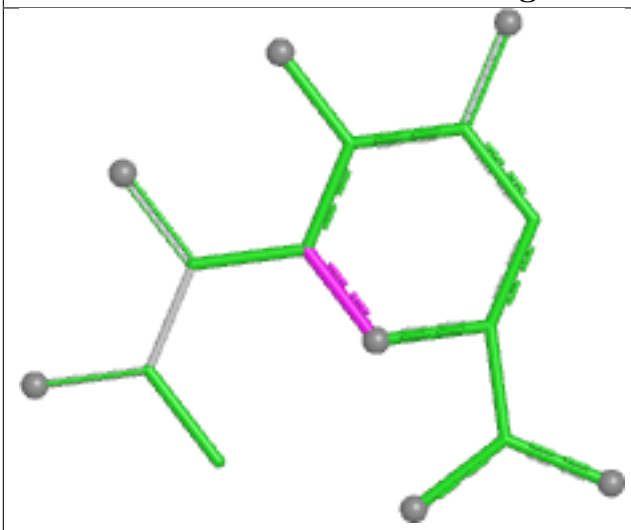


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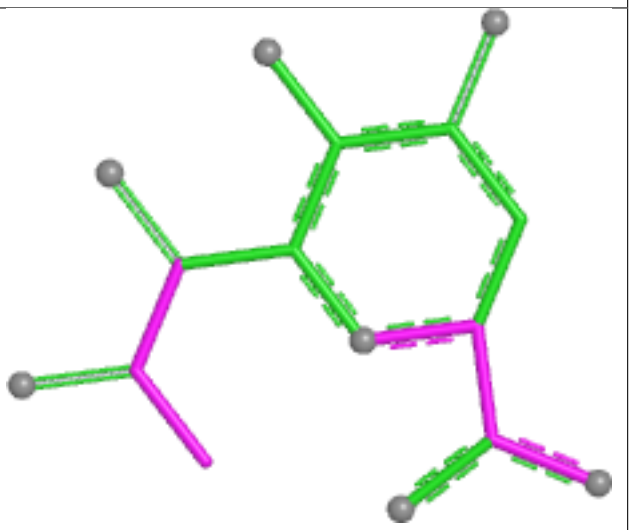


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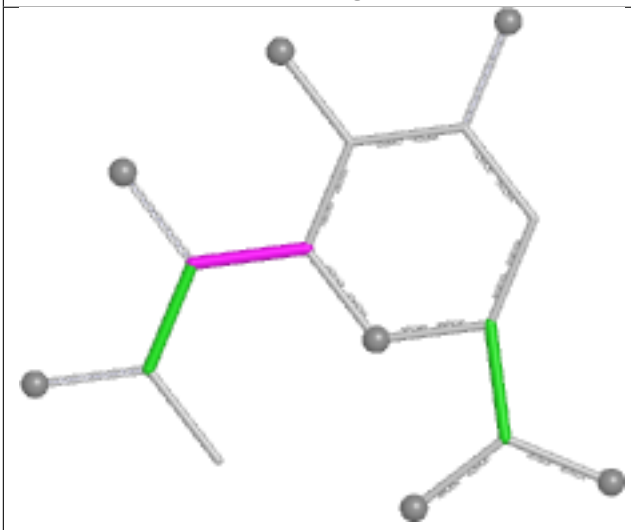
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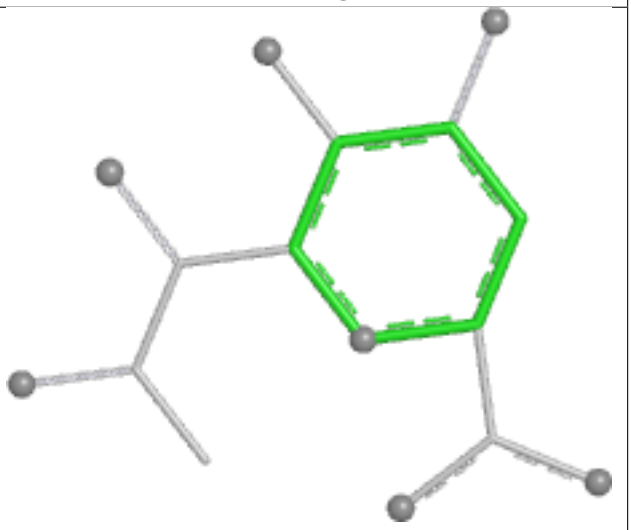
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Bond angles

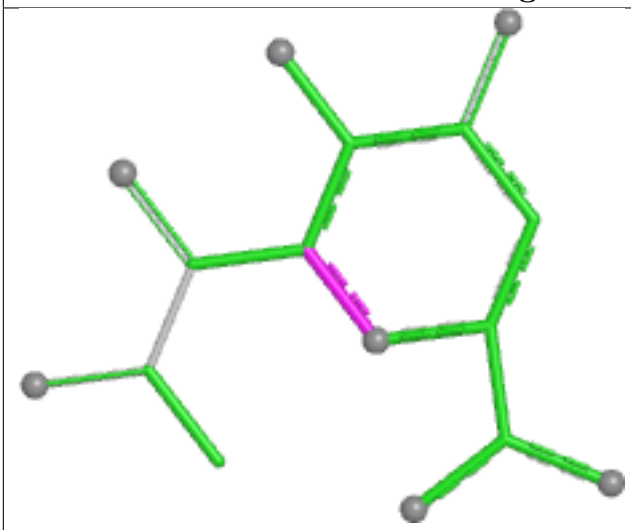


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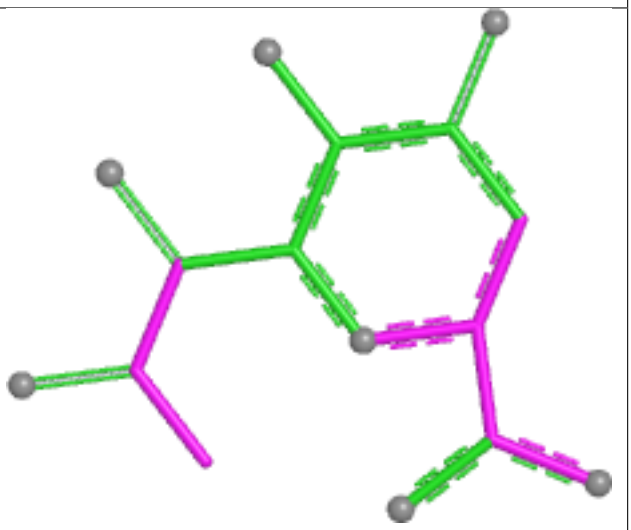


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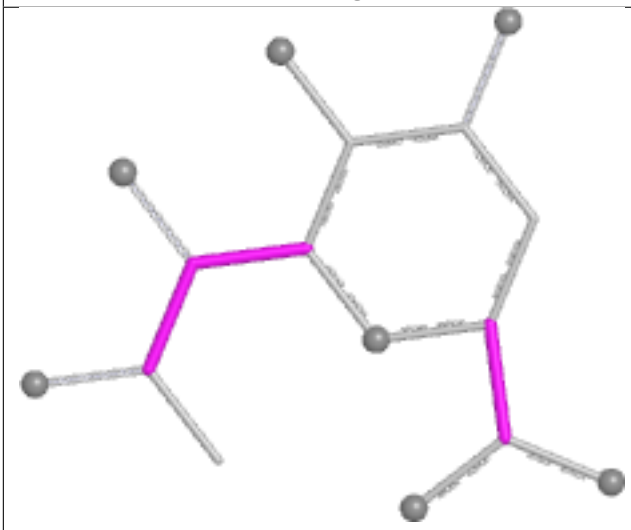
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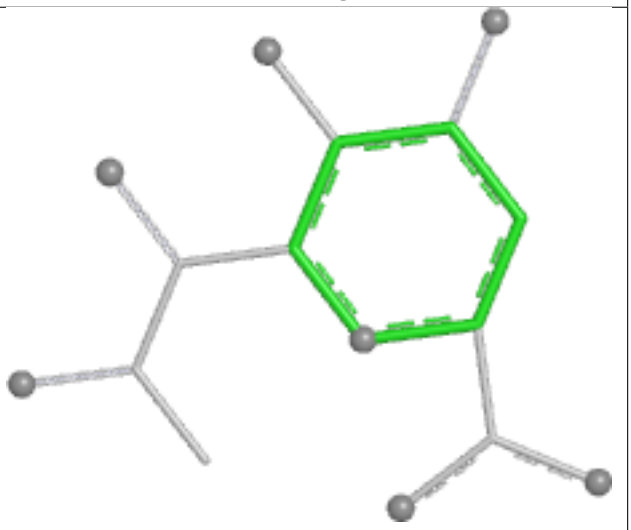
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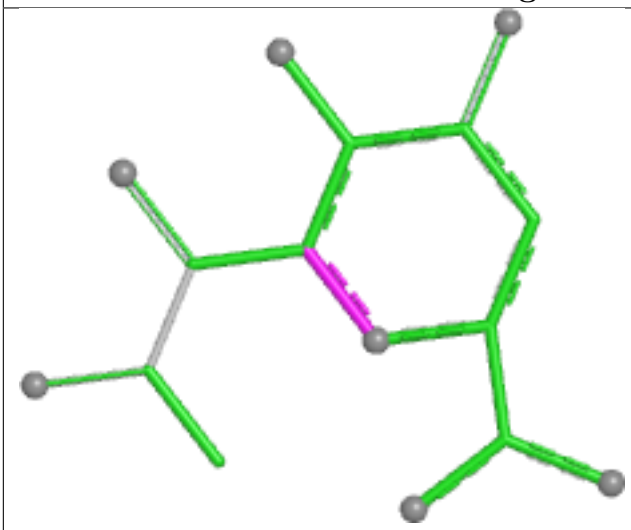


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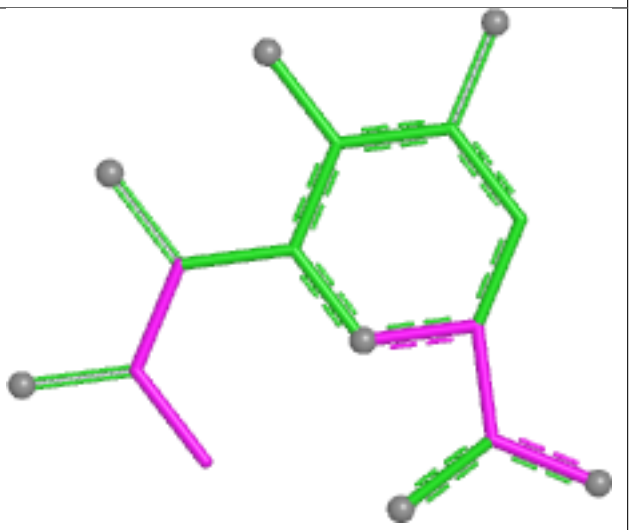


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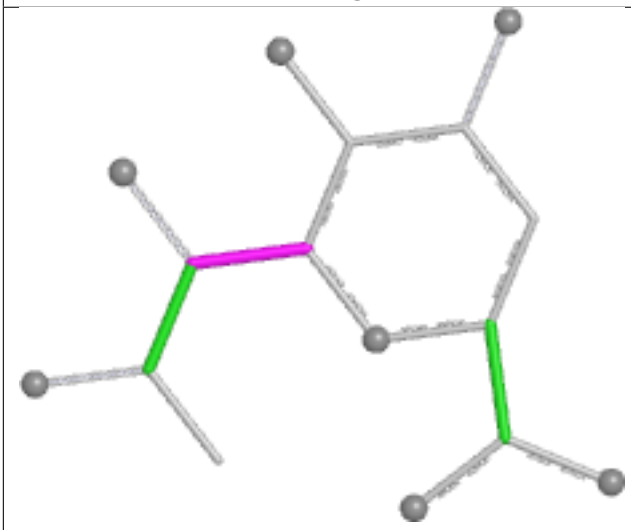
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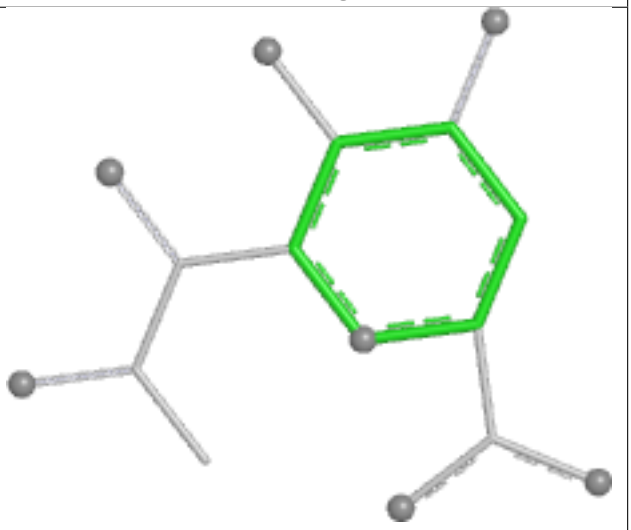
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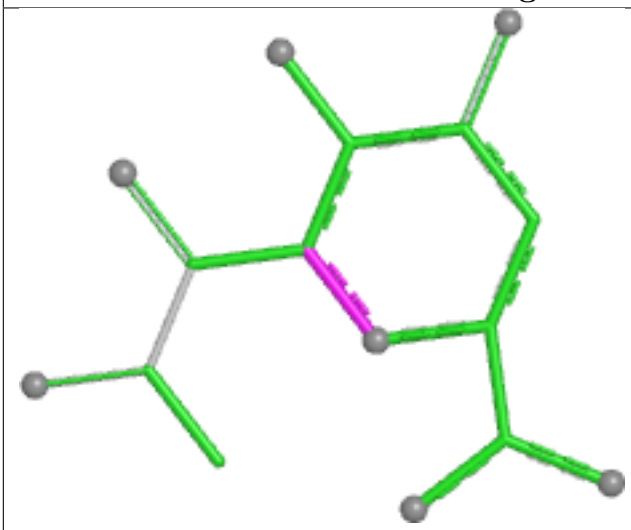


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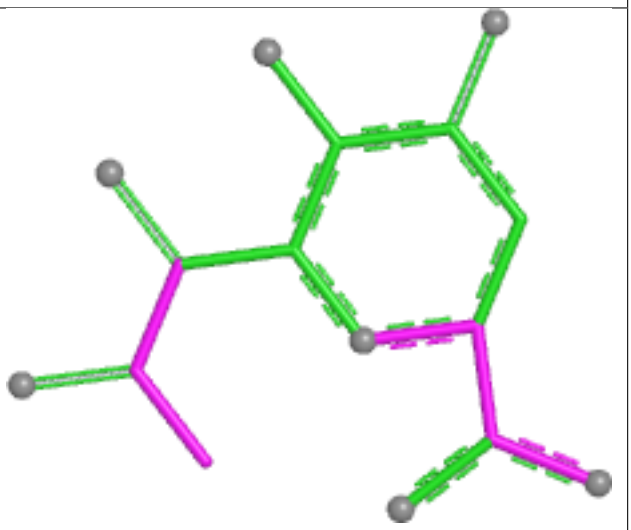


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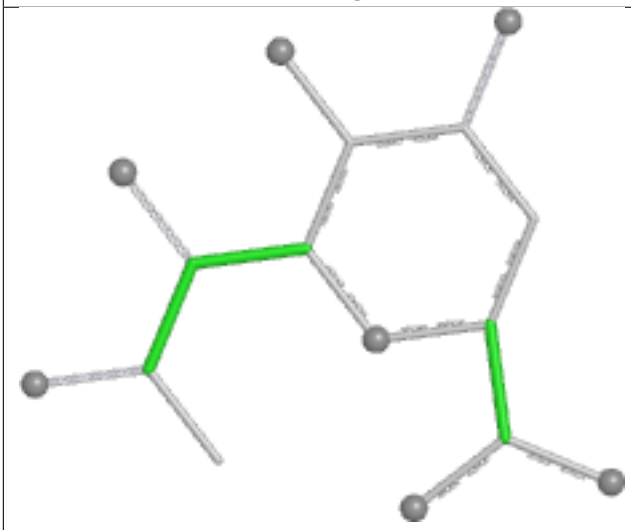
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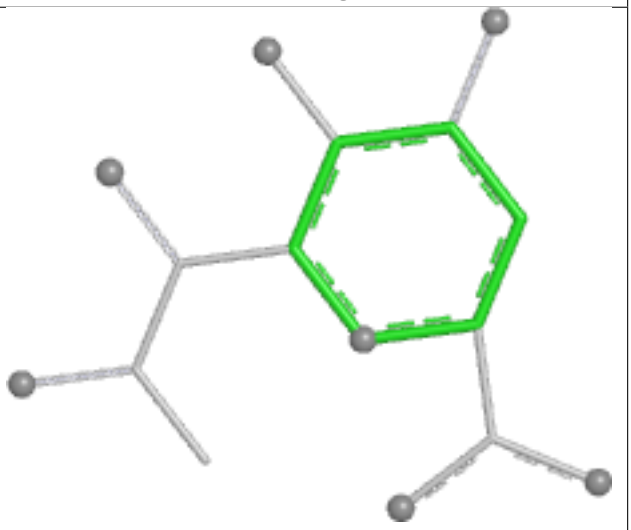
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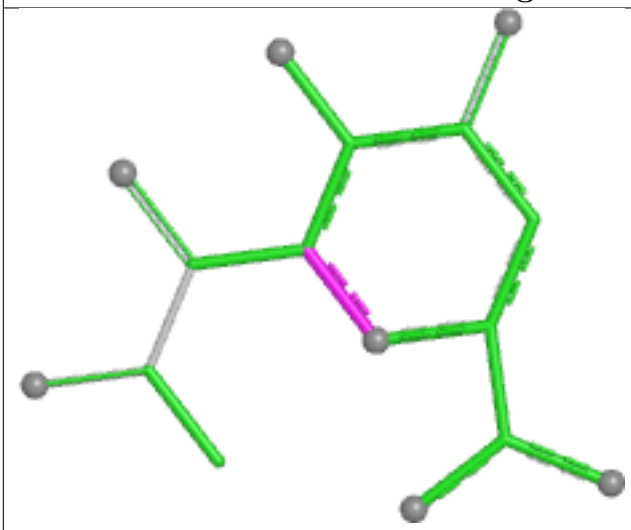


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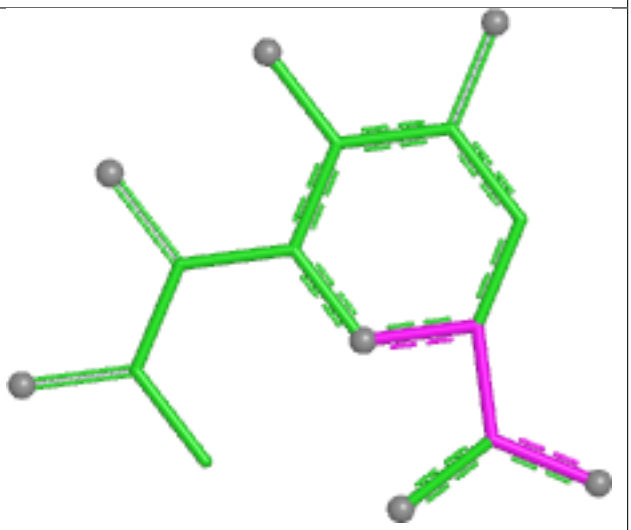


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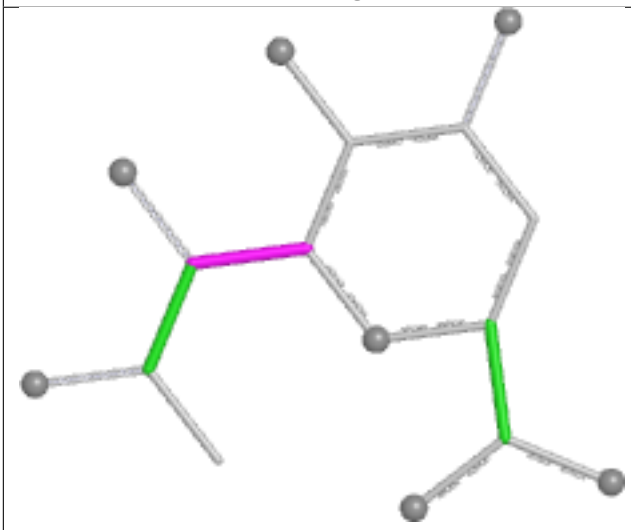
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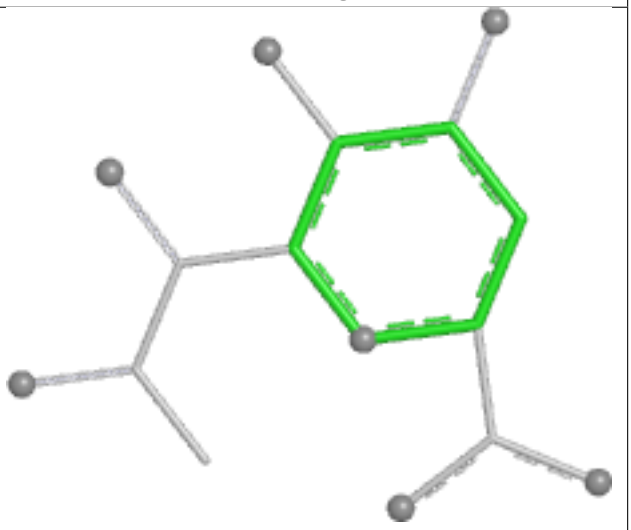
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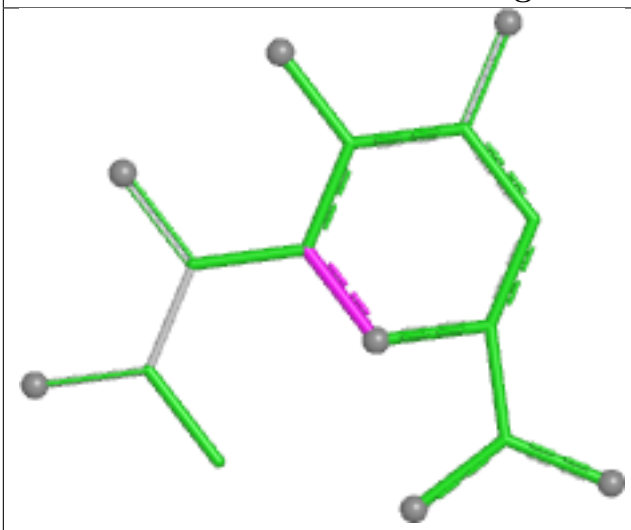


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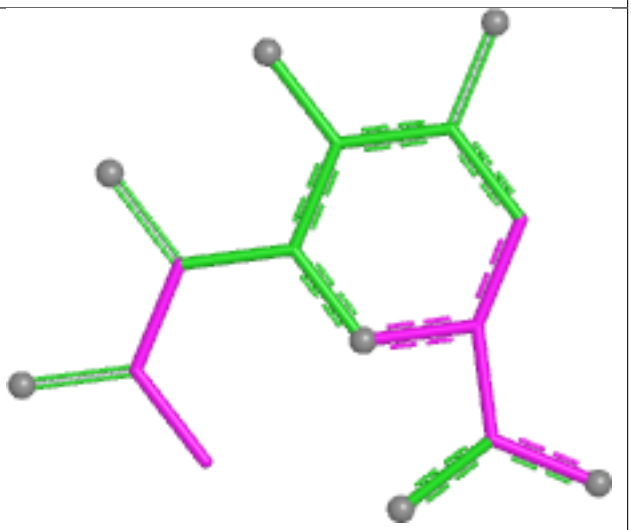


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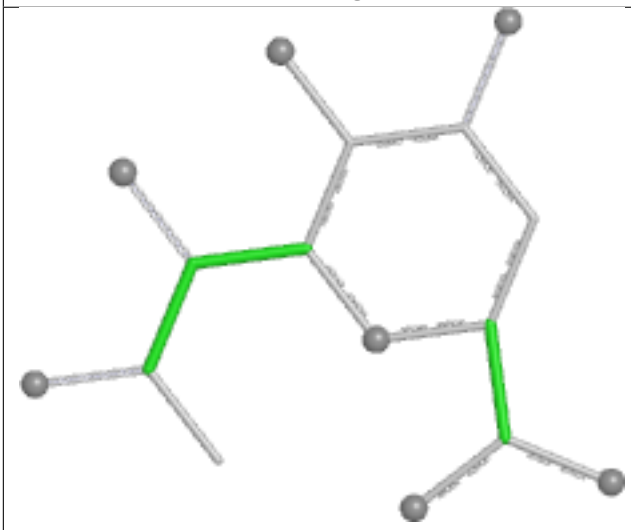
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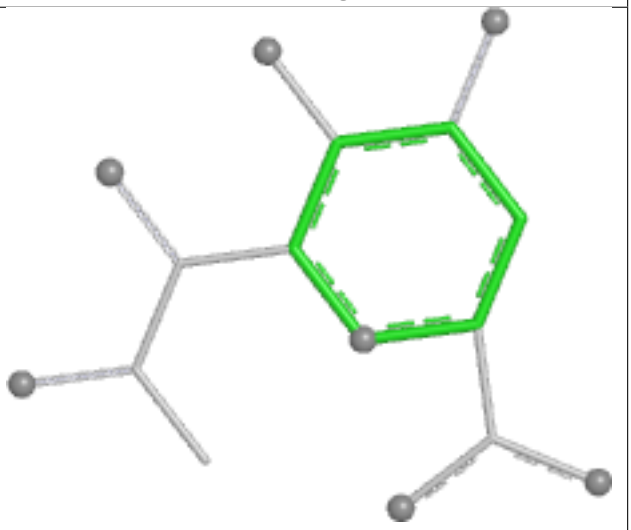
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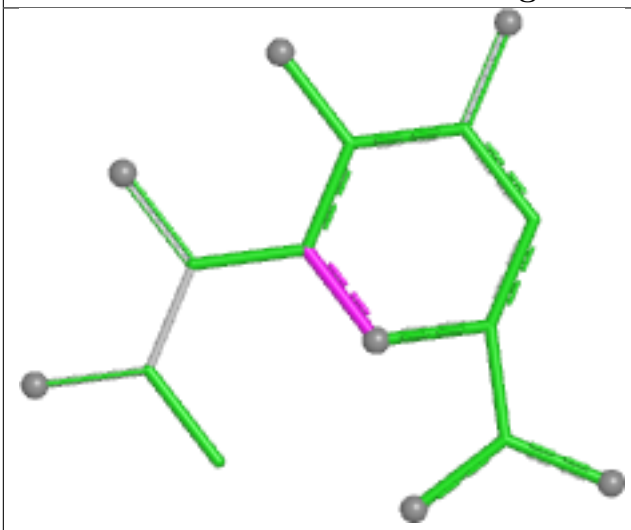


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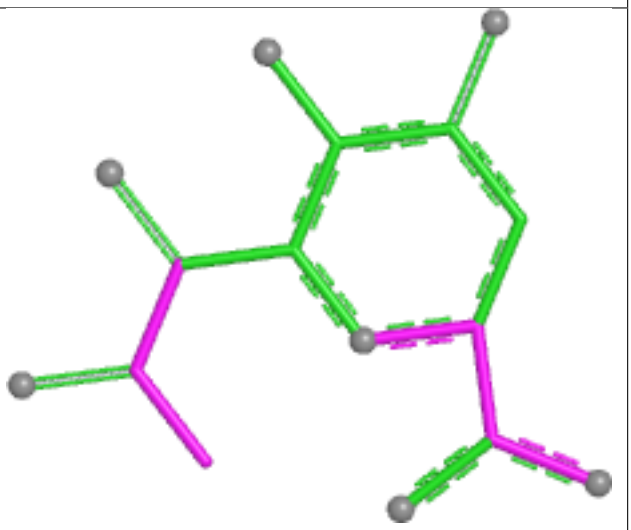


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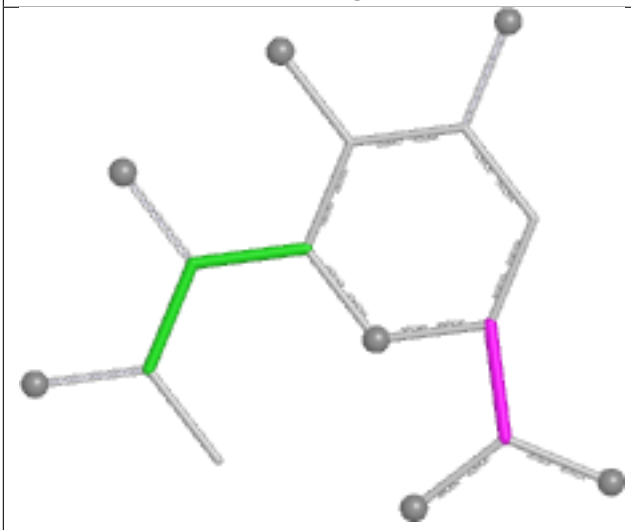
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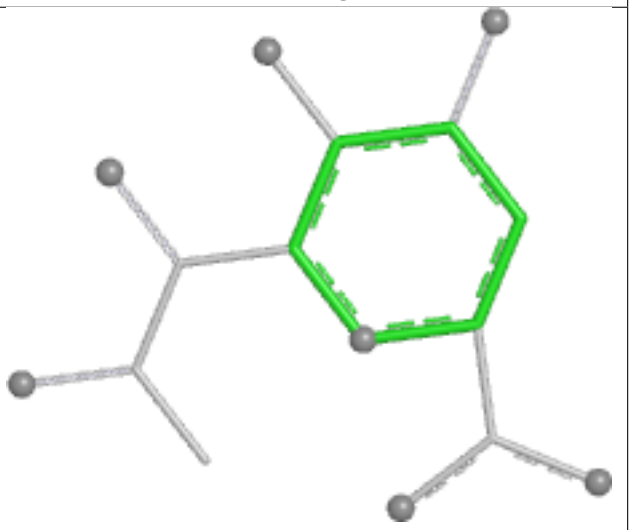
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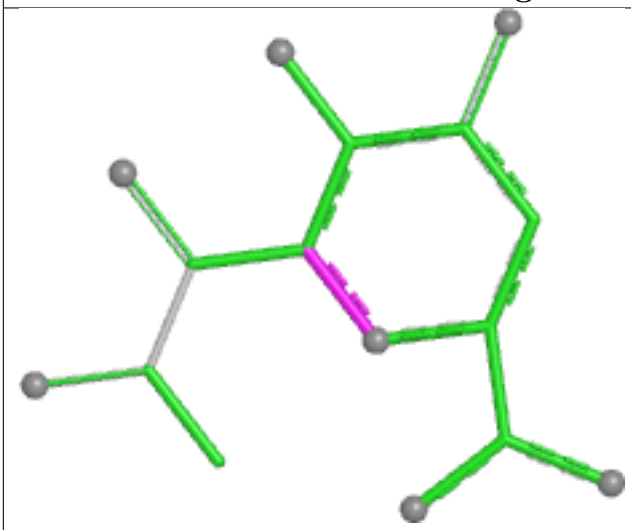


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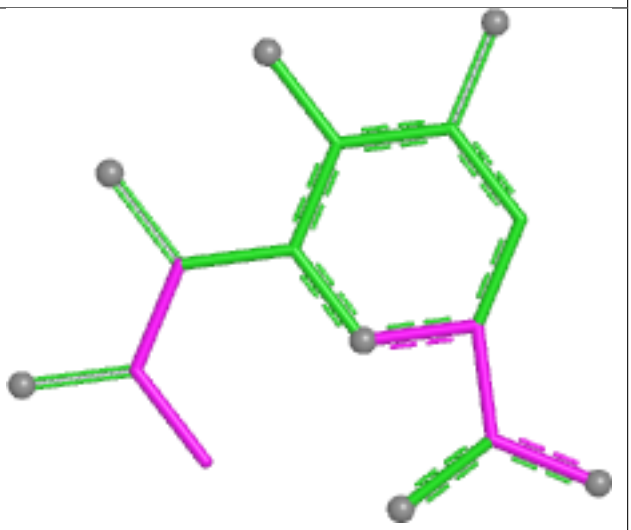


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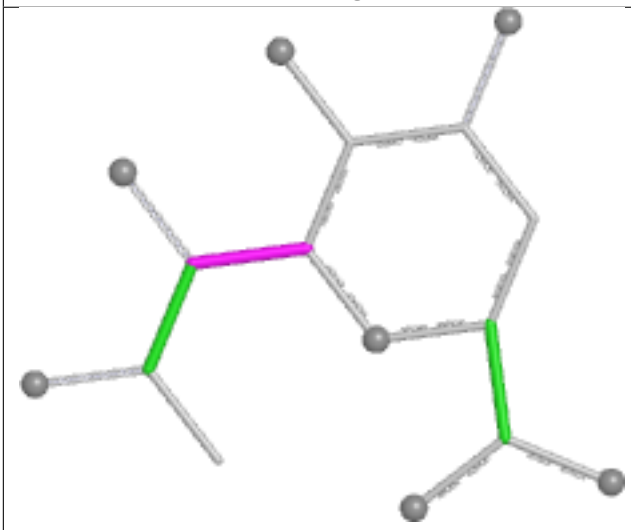
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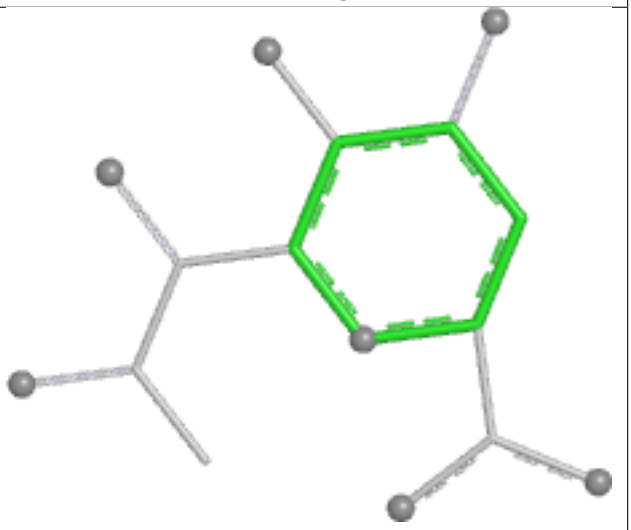
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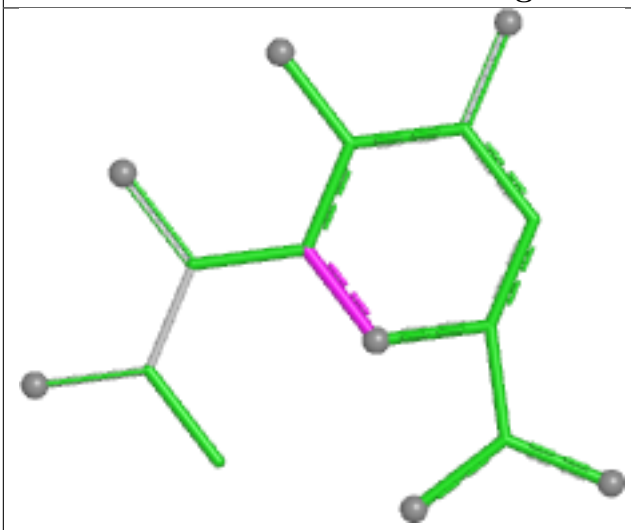


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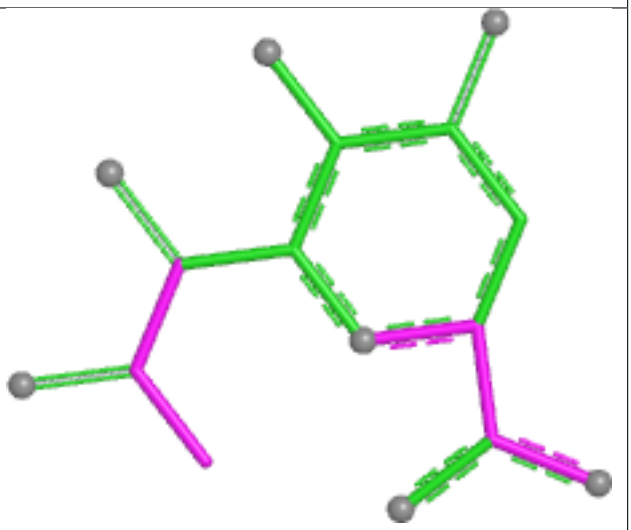


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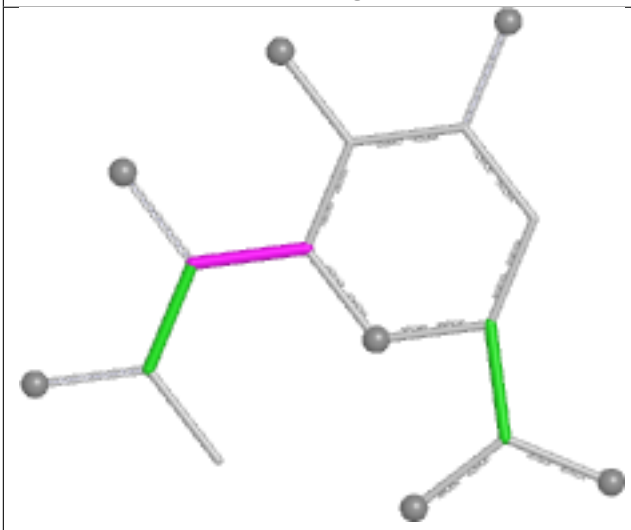
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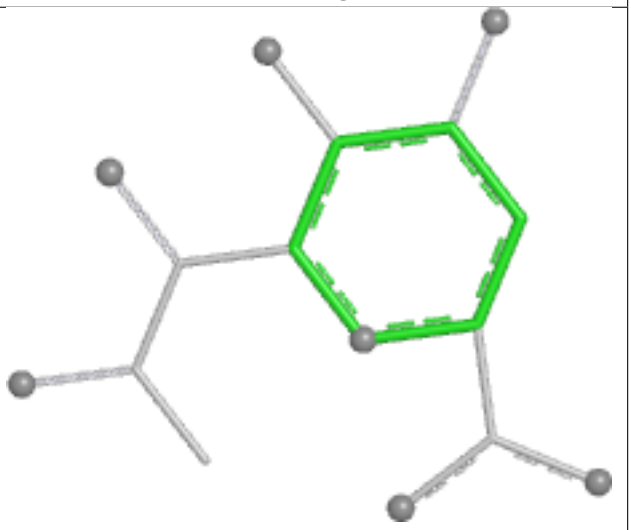
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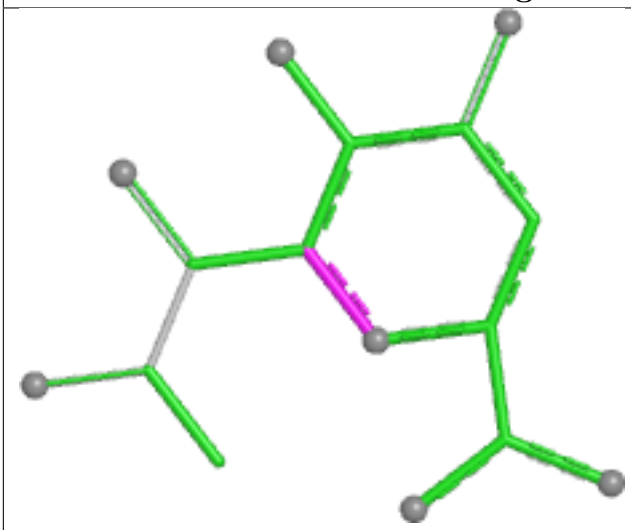


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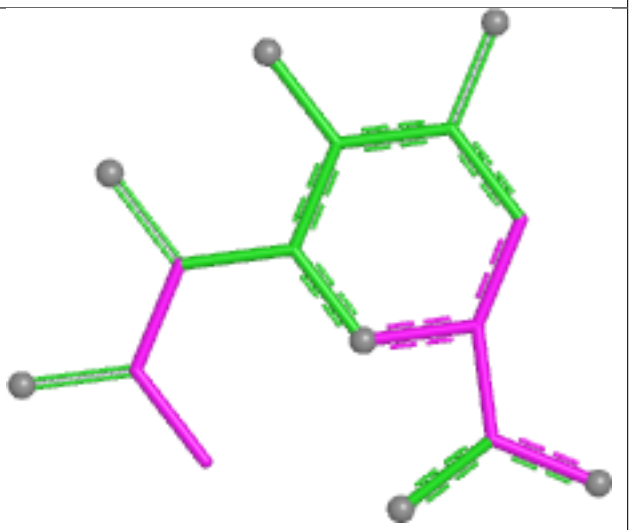


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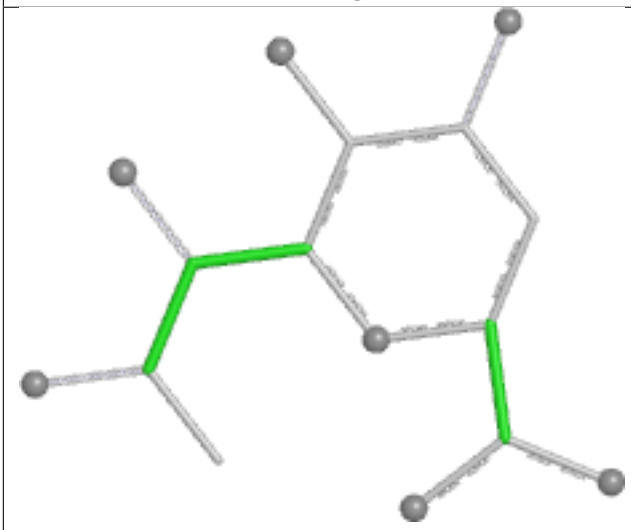
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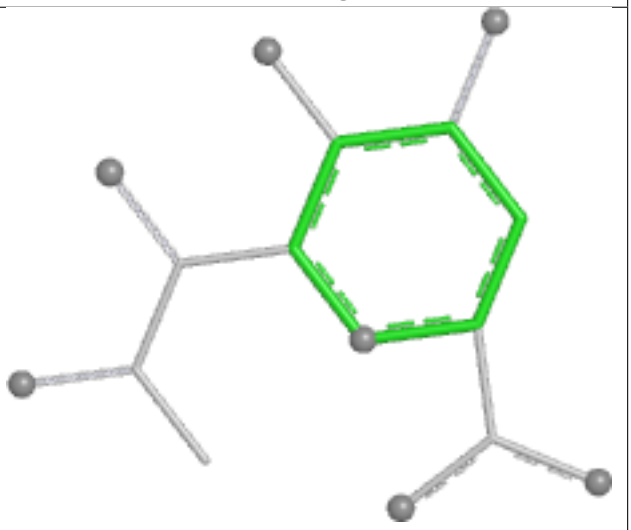
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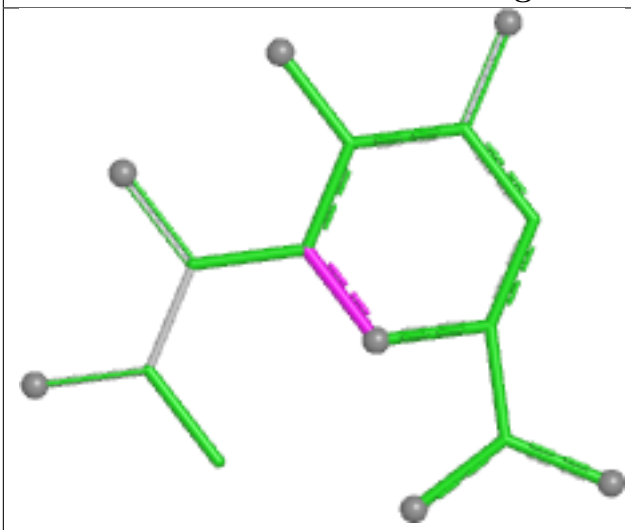


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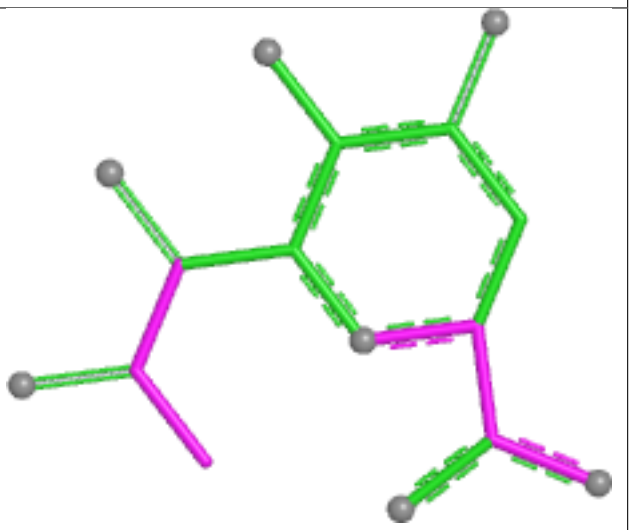


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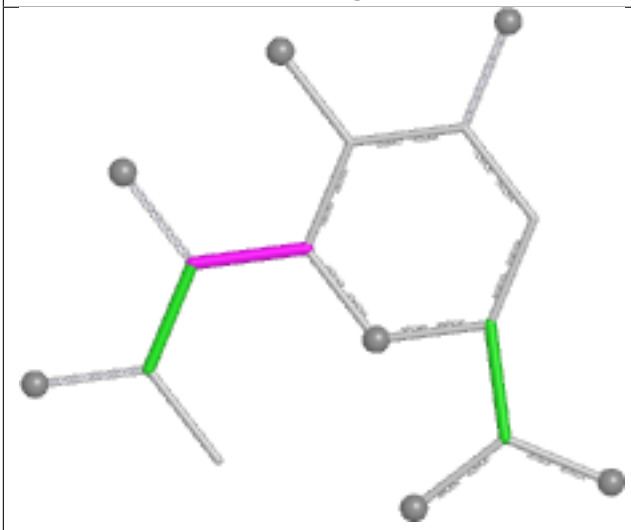
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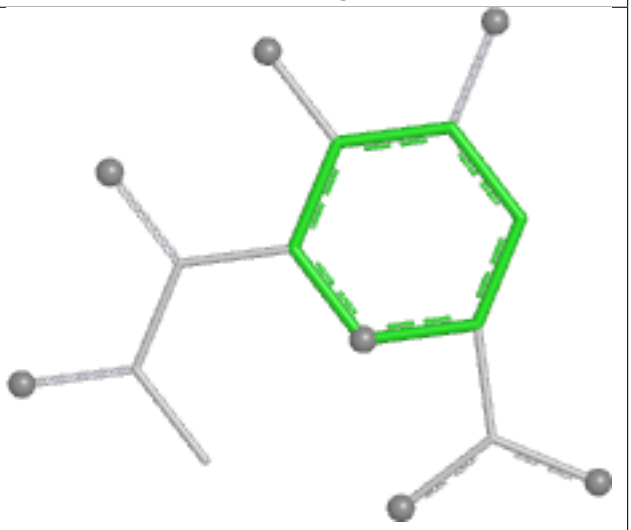
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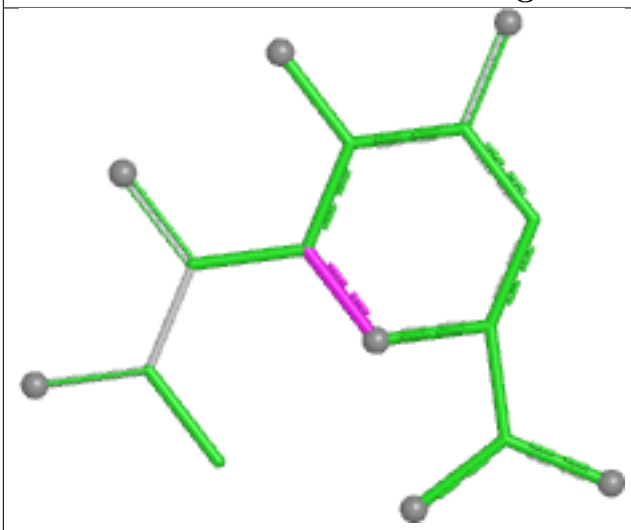


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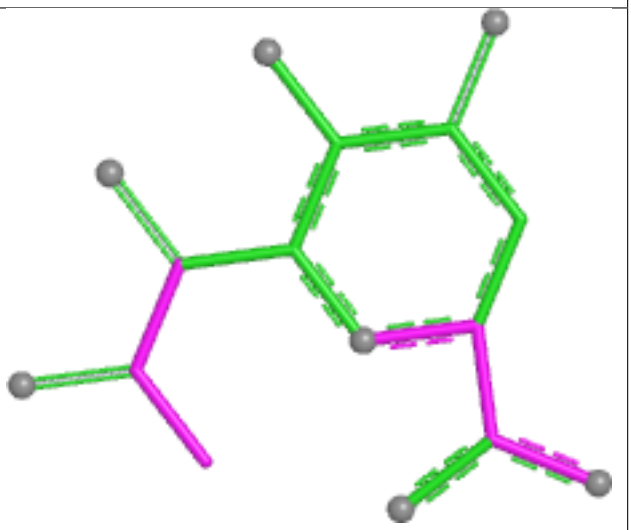


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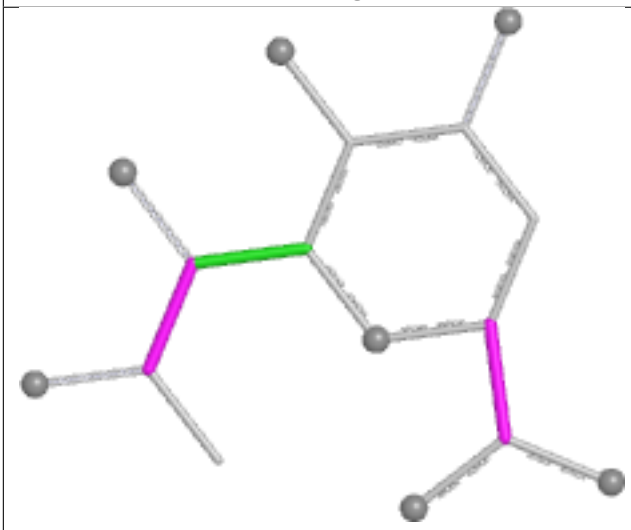
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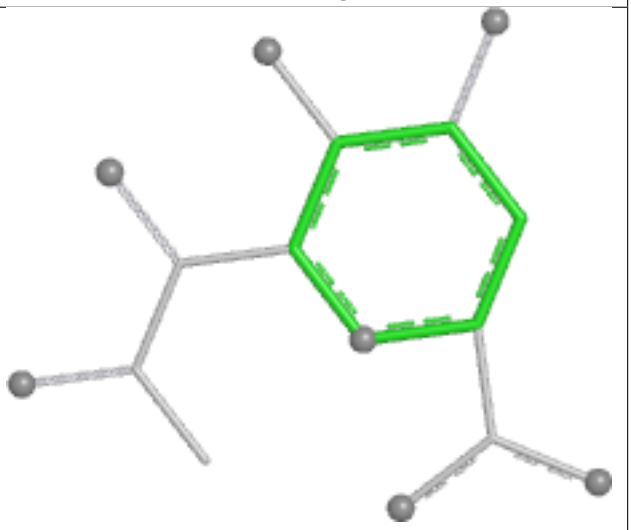
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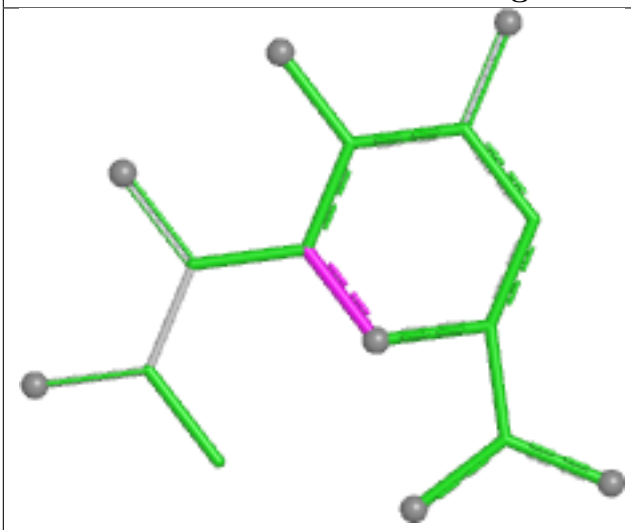


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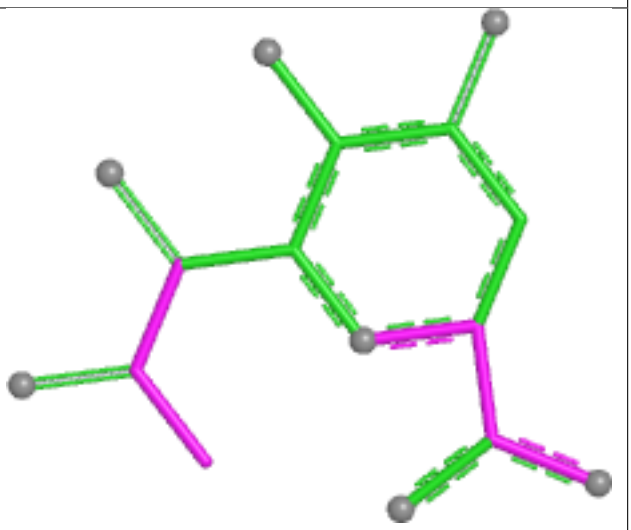


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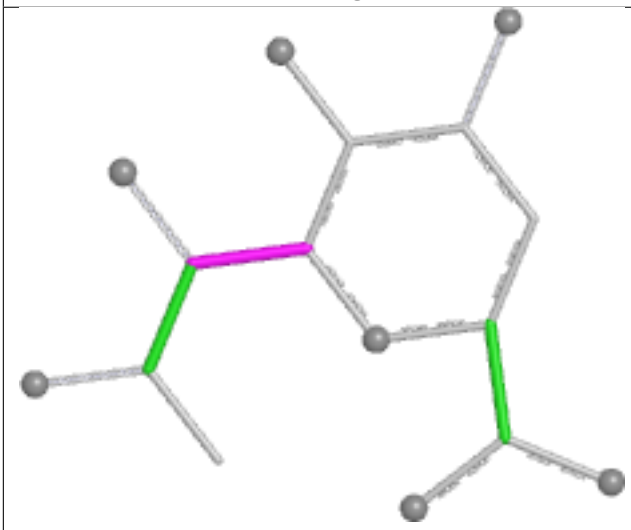
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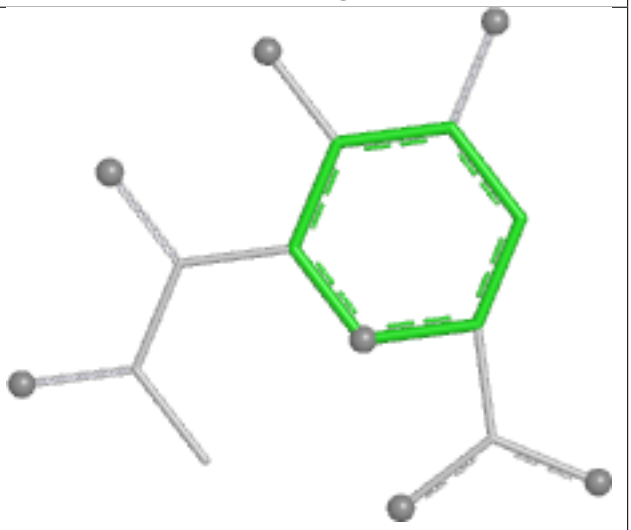
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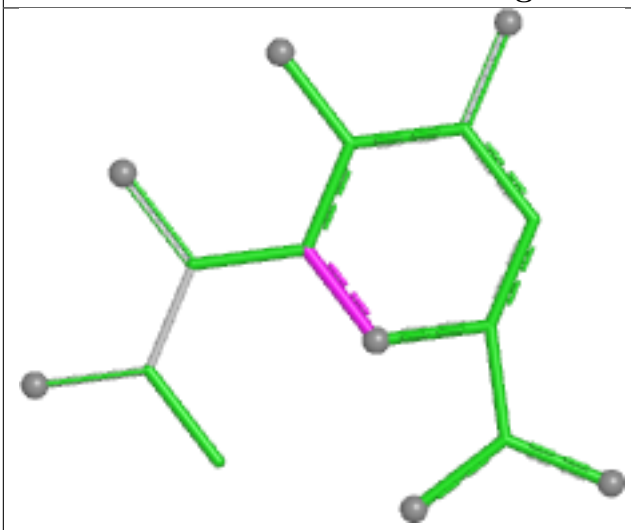


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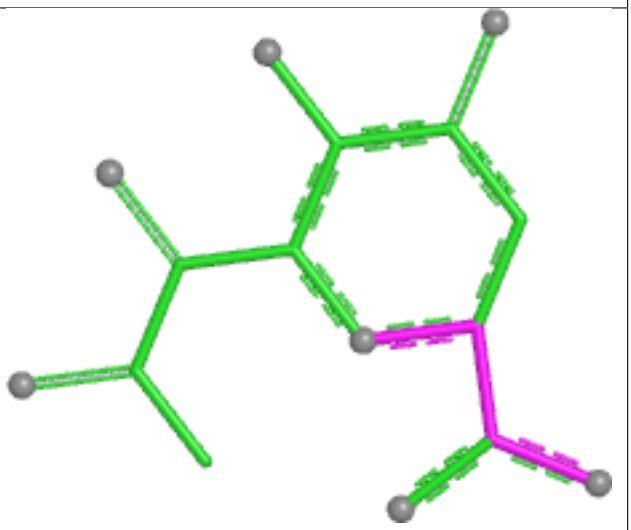


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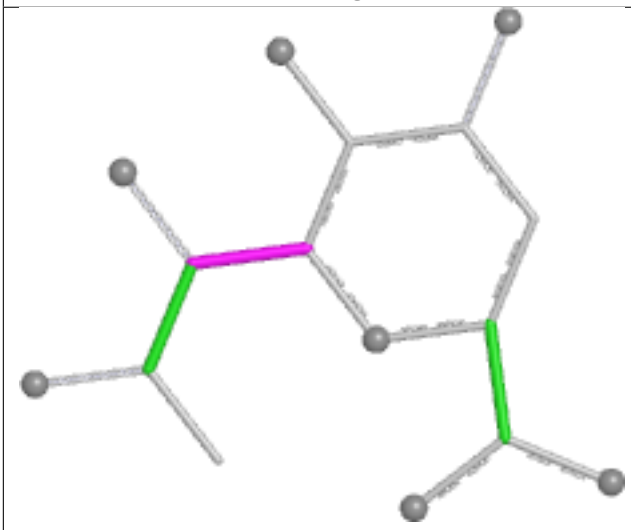
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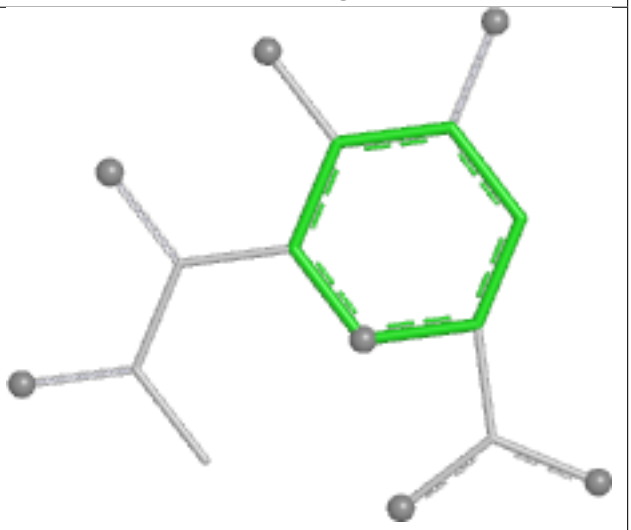
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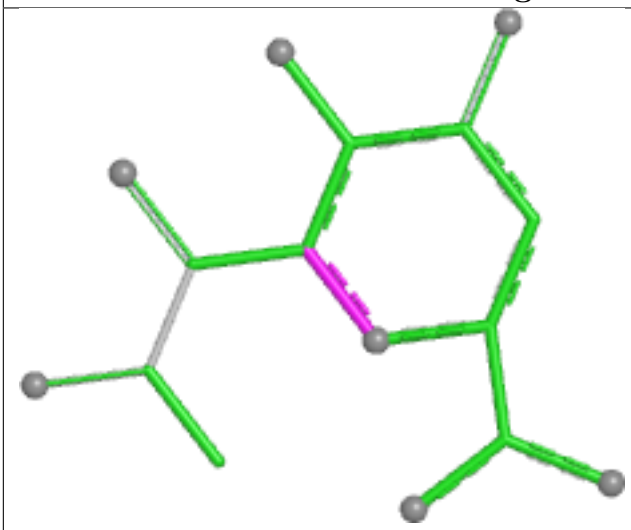


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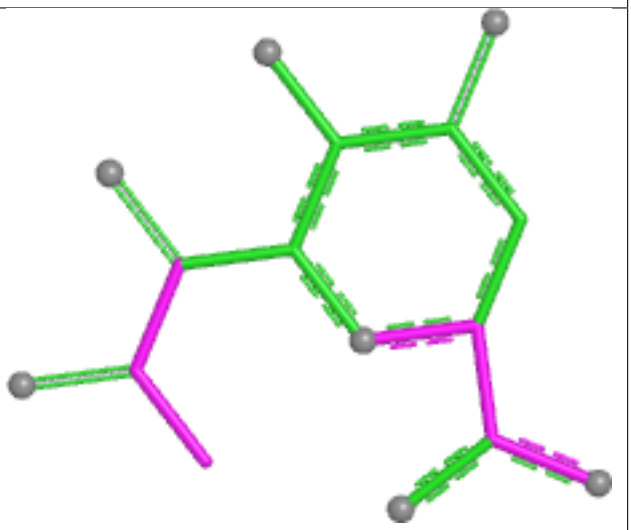


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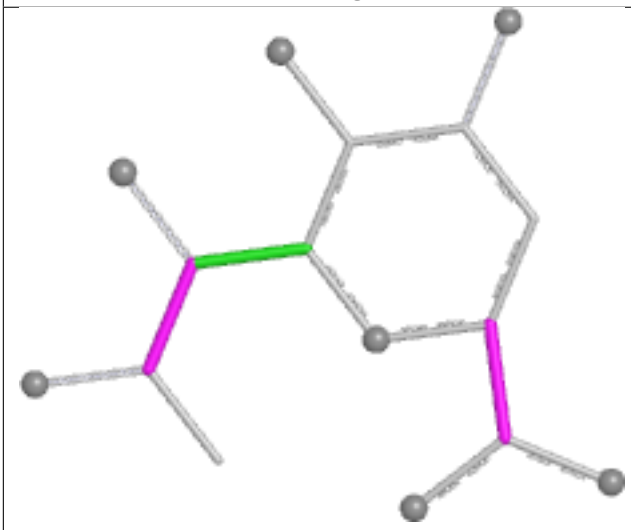
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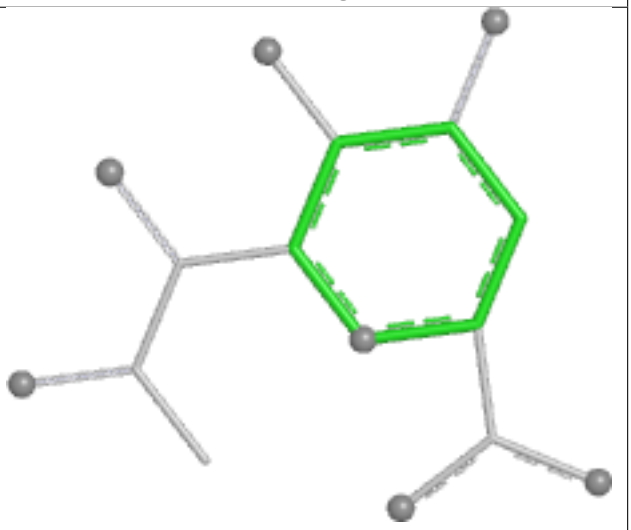
Bond lengths



Bond angles

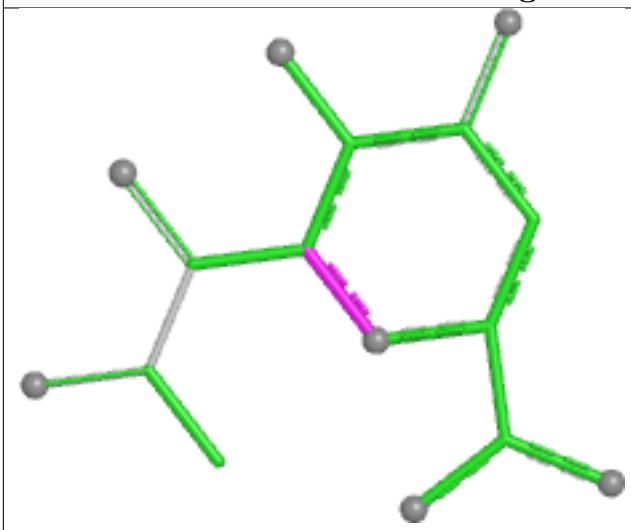


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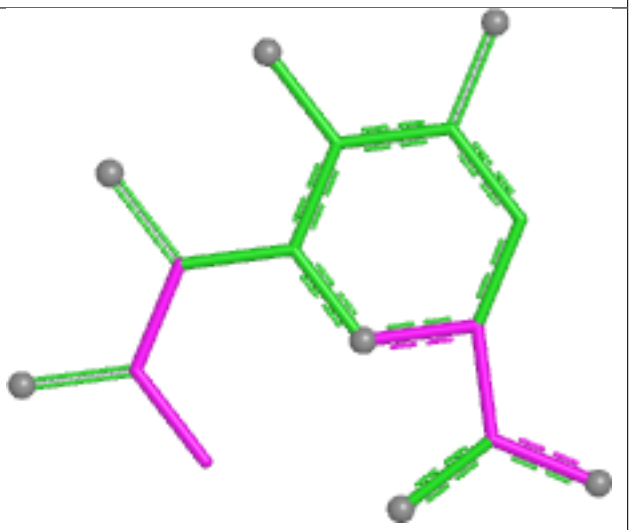


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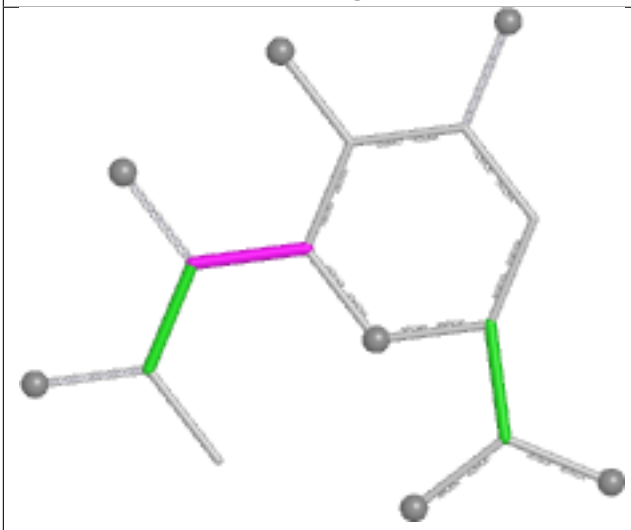
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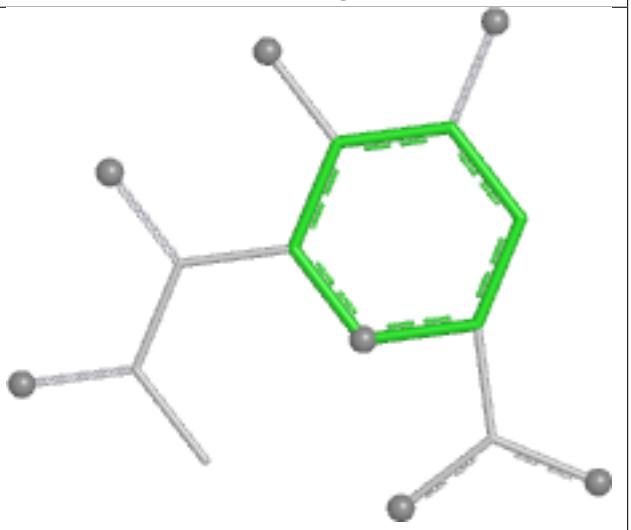
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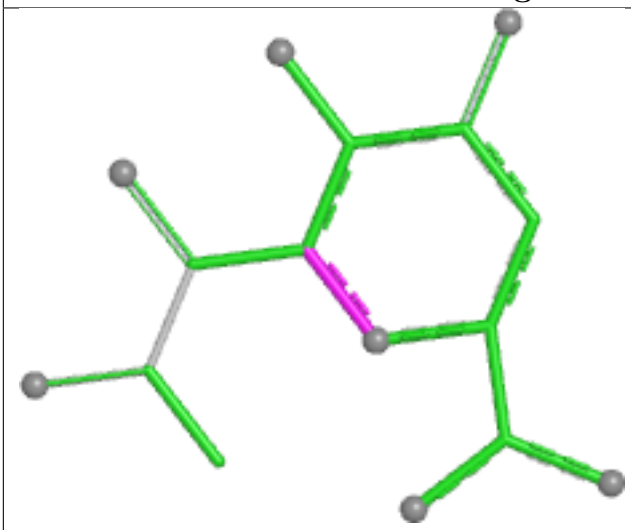


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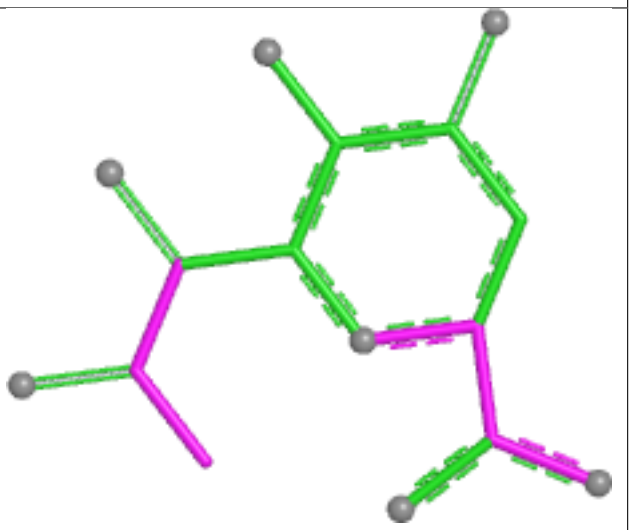


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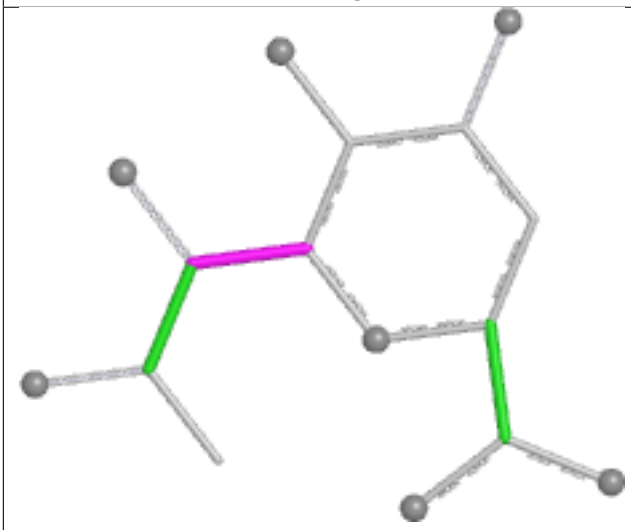
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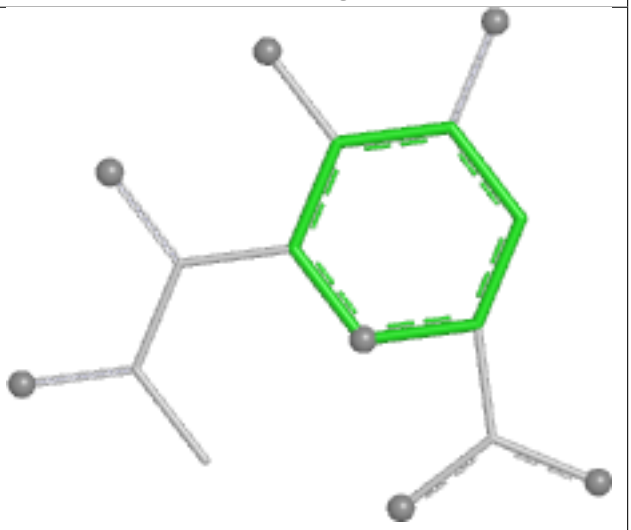
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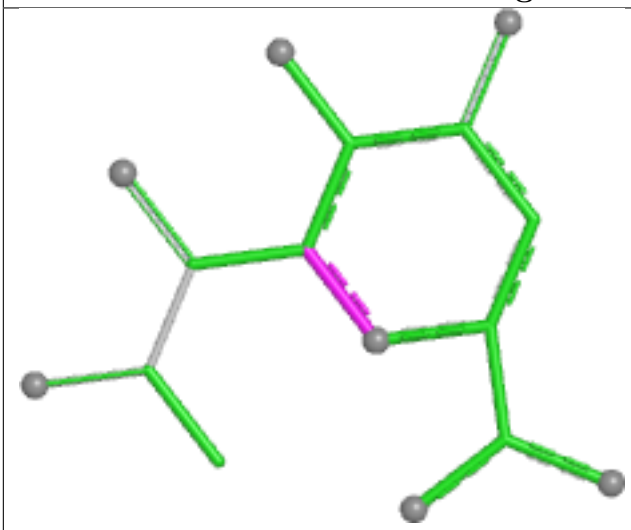


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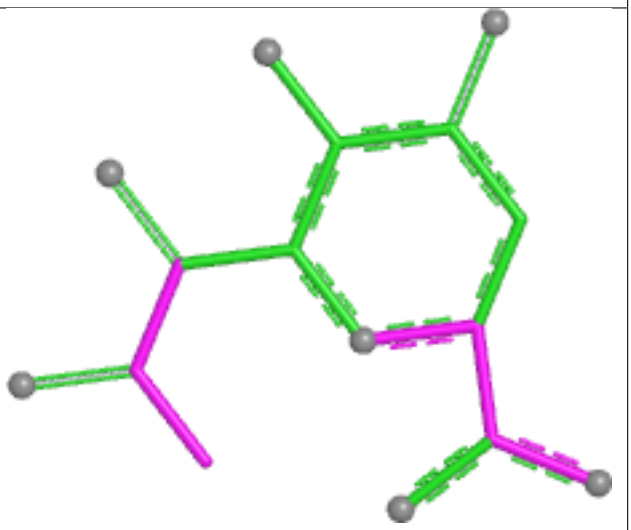


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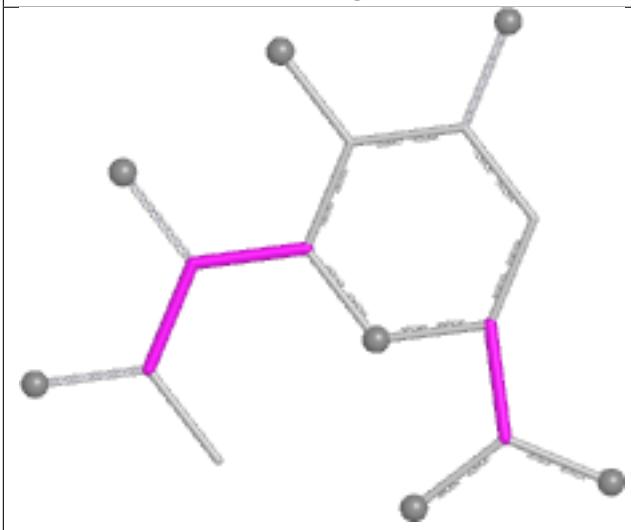
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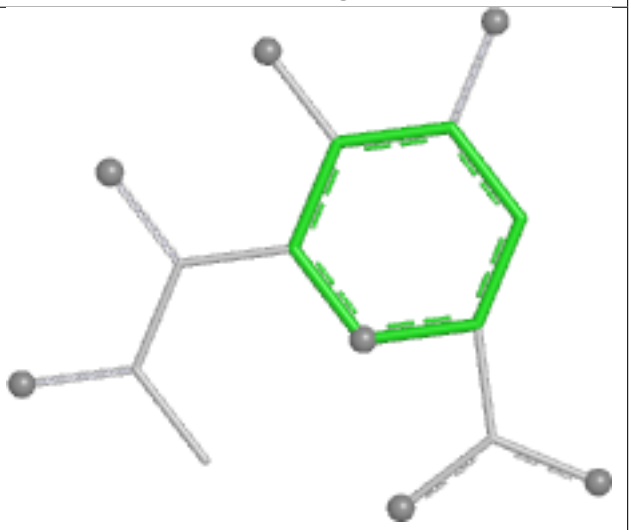
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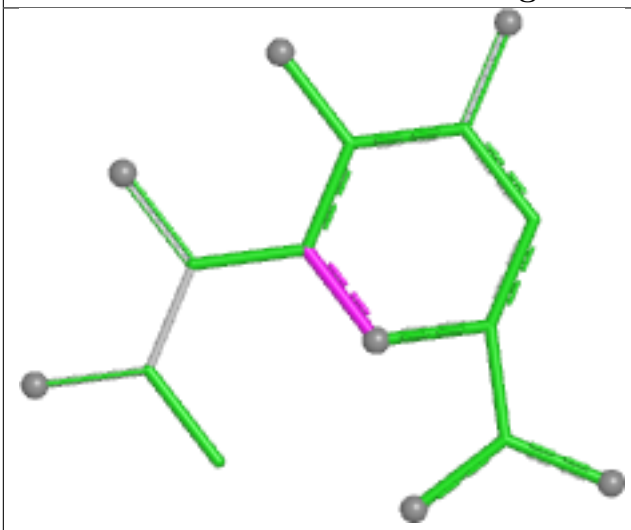


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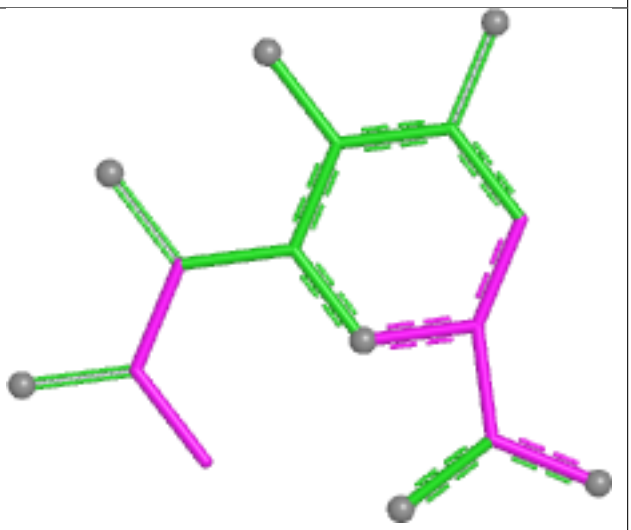


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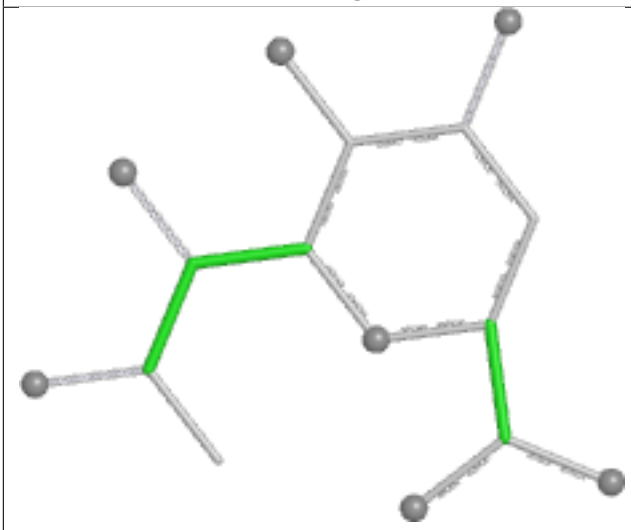
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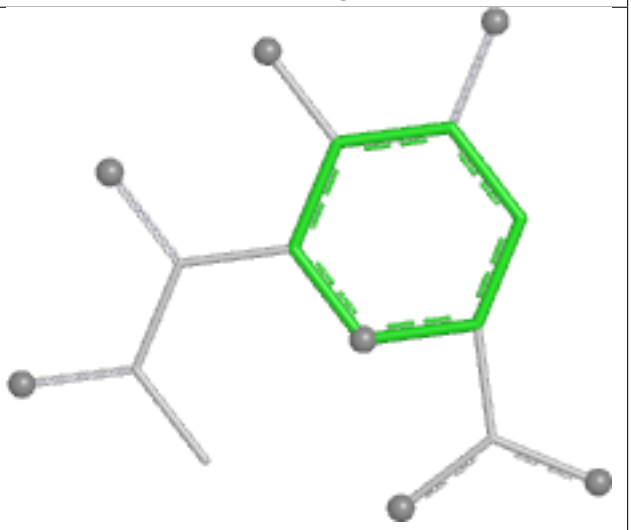
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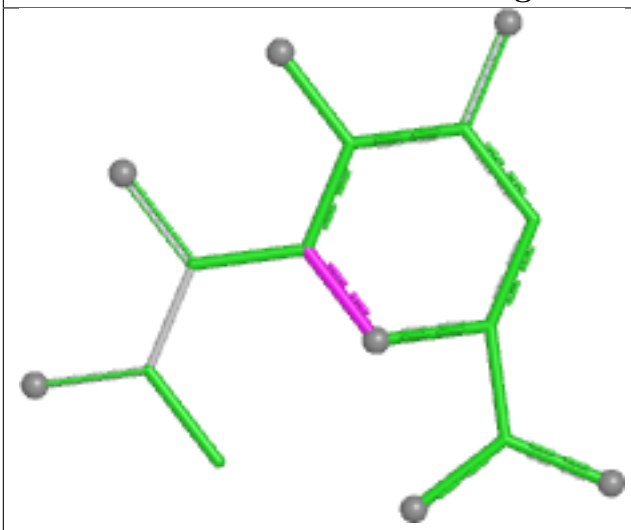


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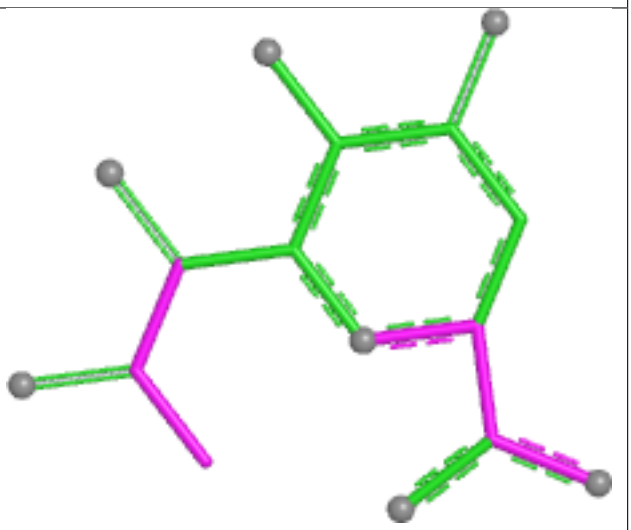


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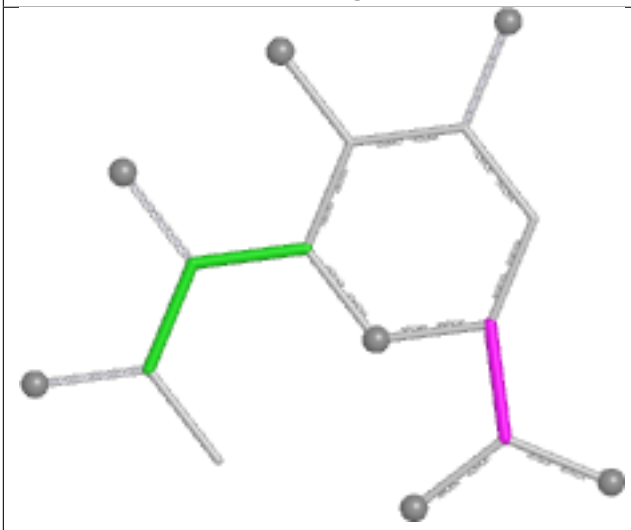
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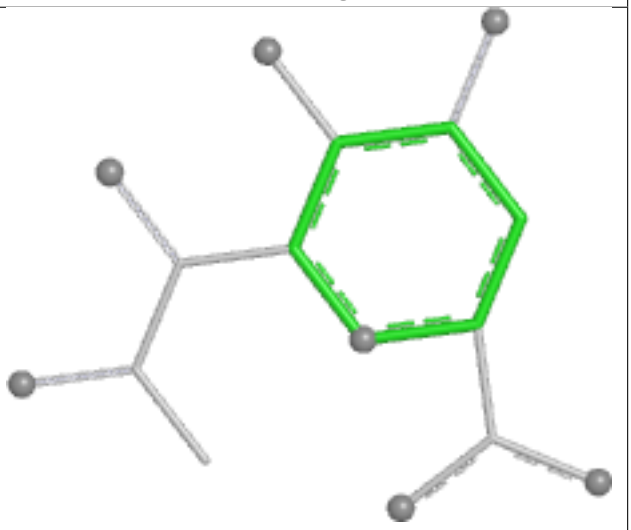
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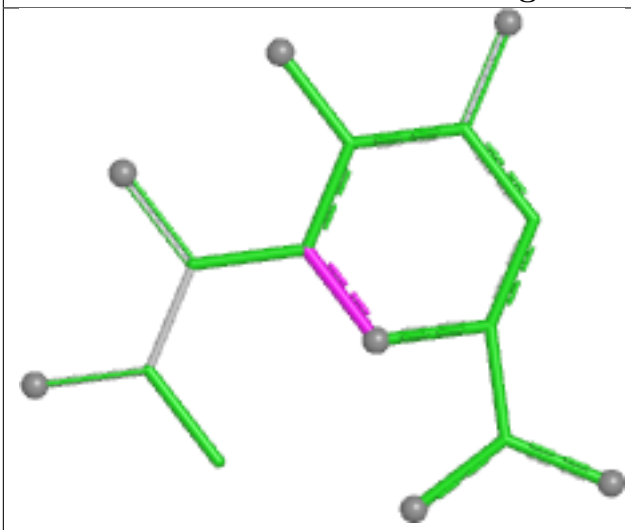


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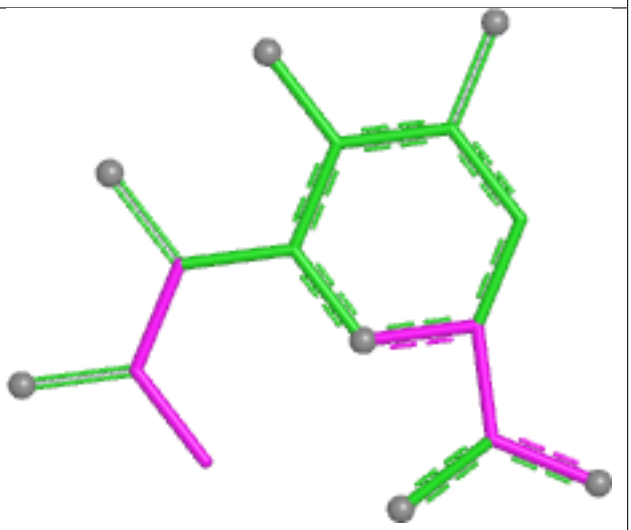


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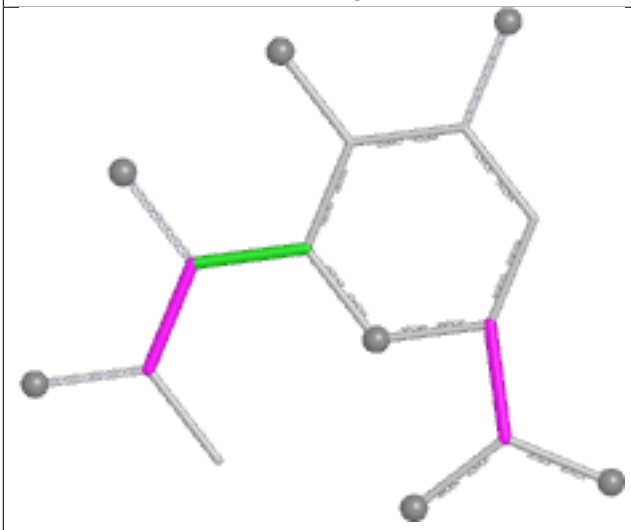
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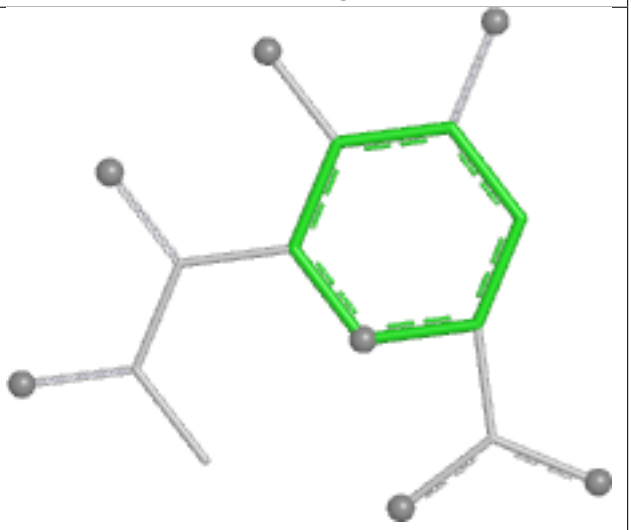
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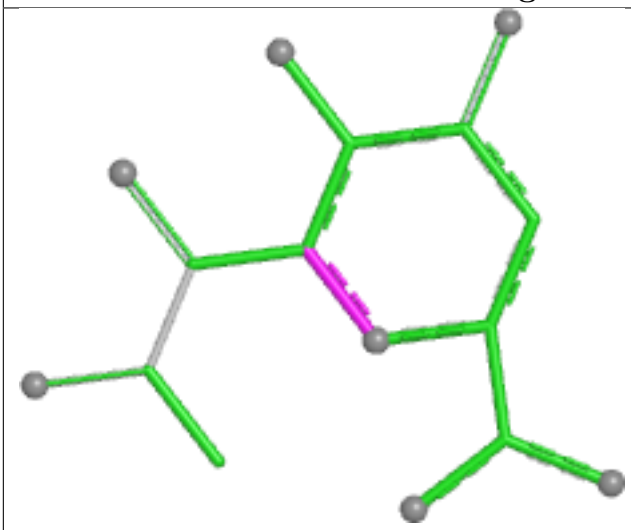


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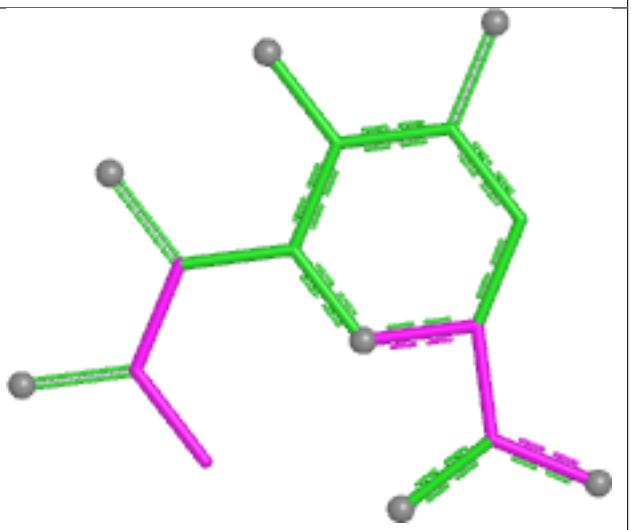


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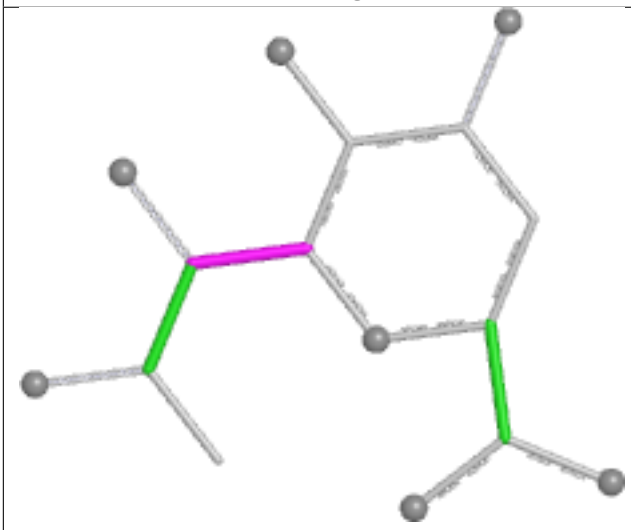
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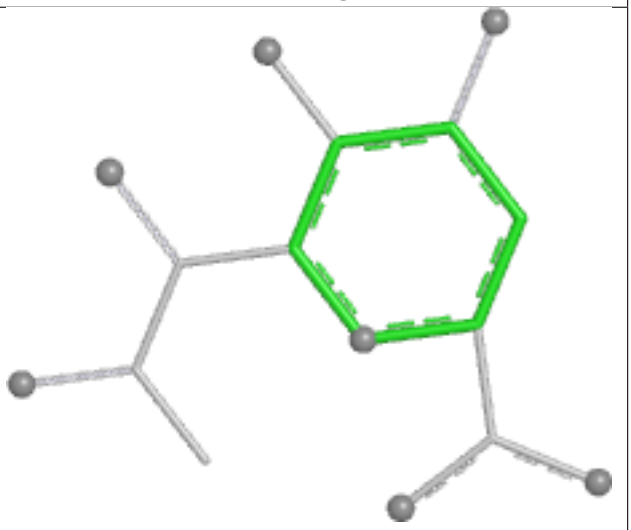
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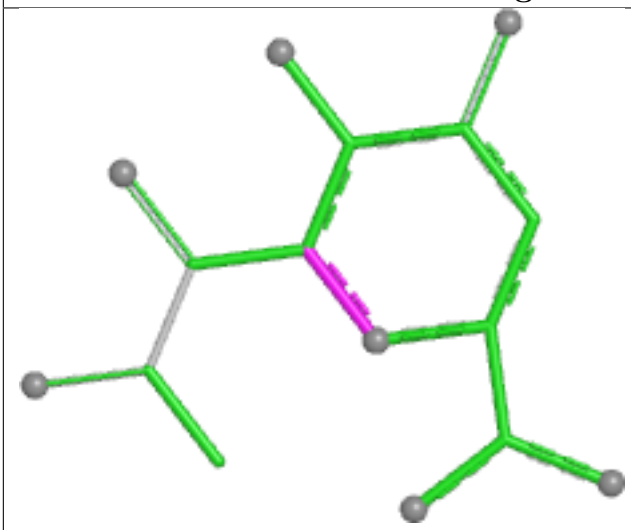


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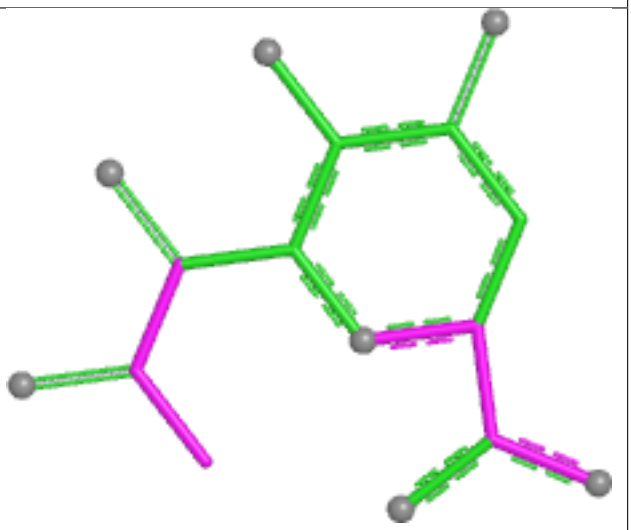


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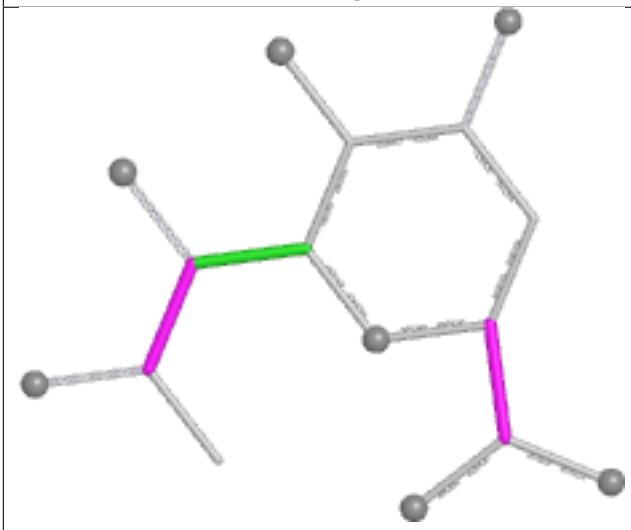
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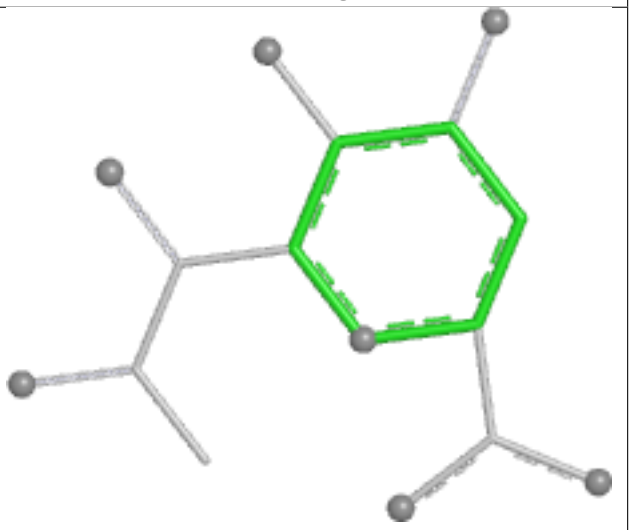
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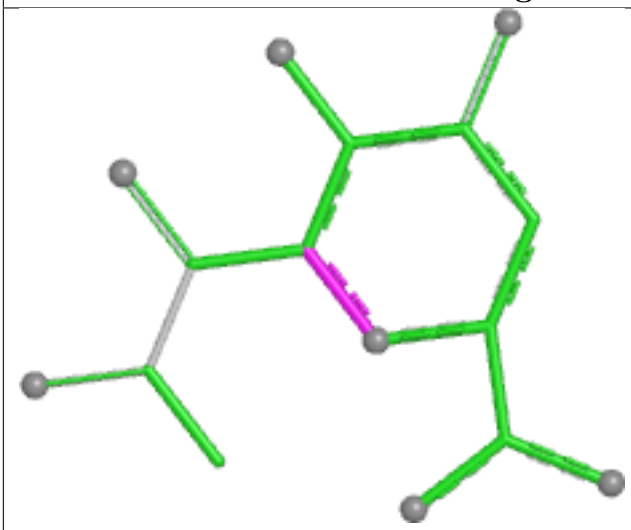


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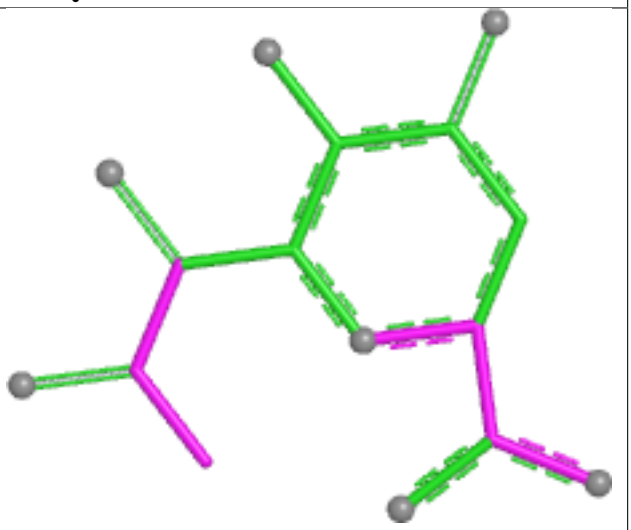


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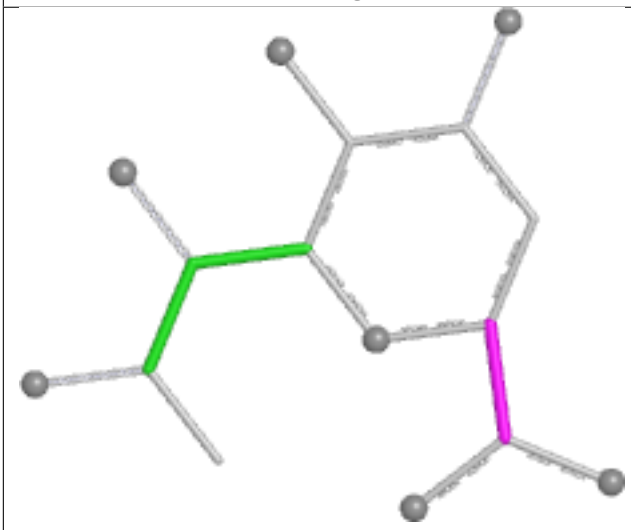
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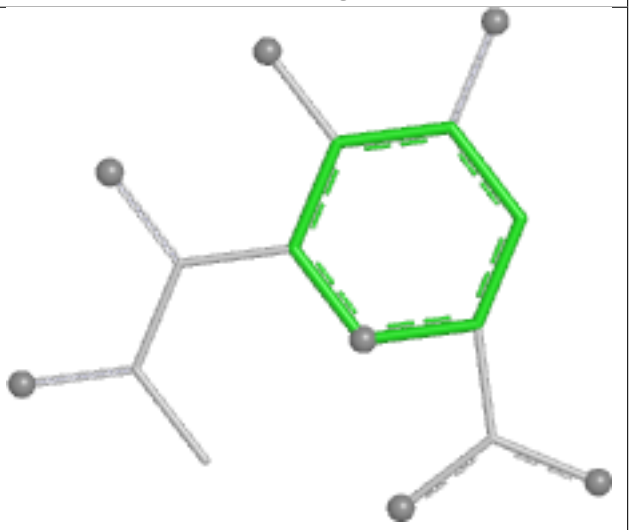
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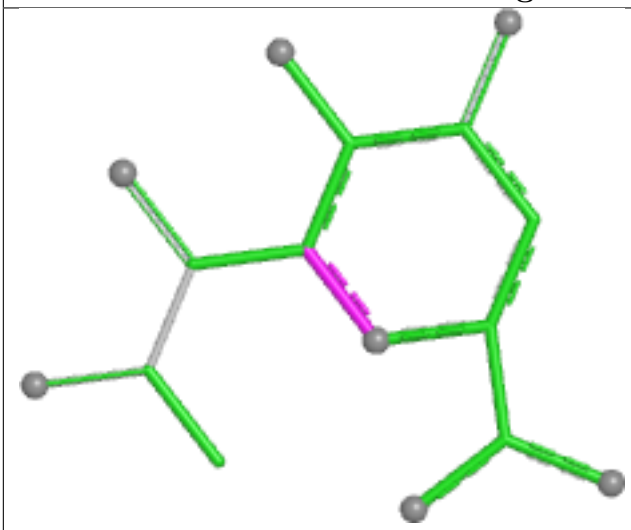


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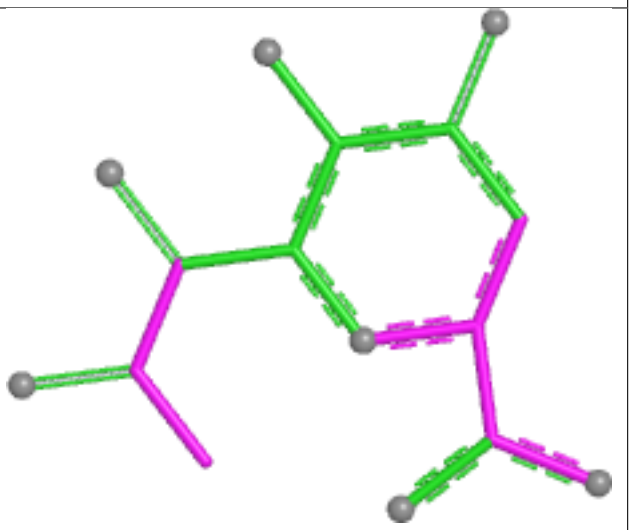


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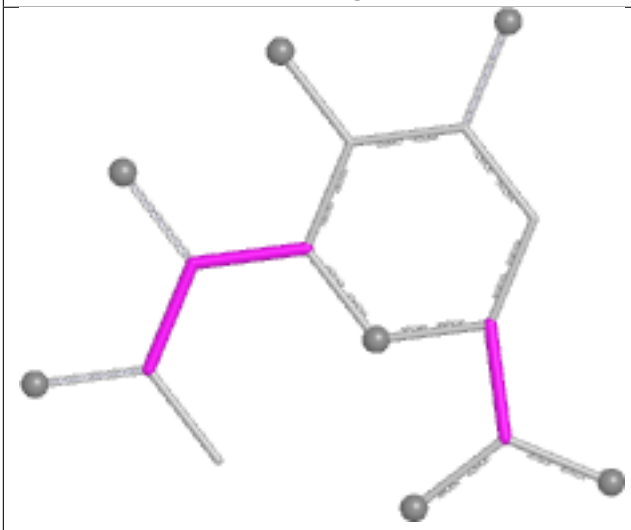
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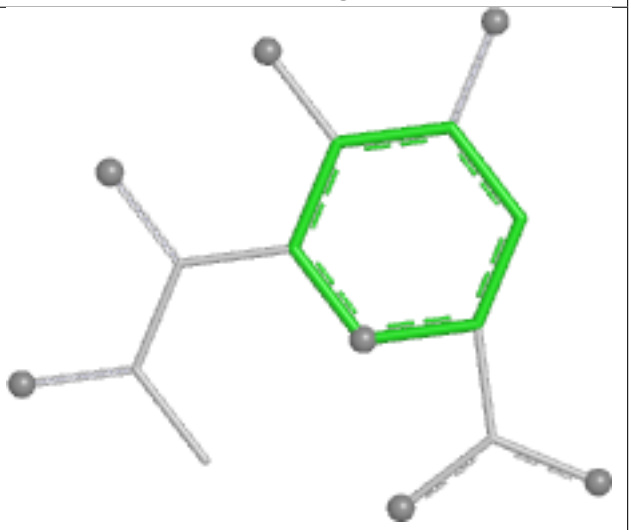
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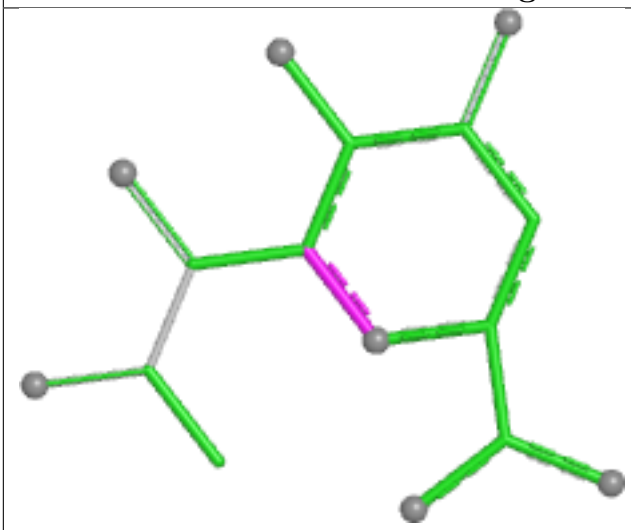


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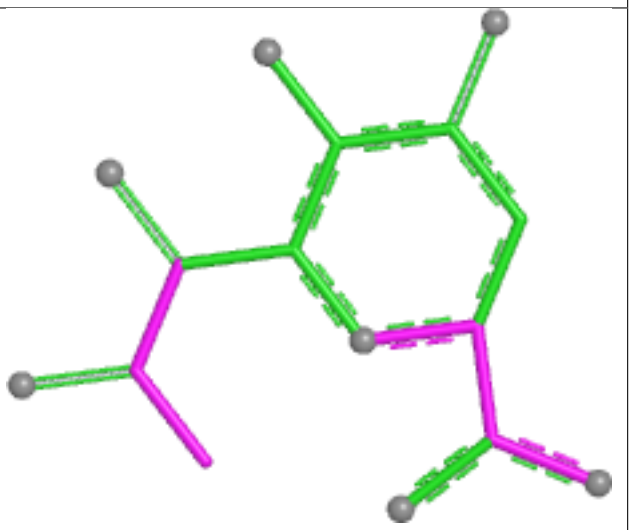


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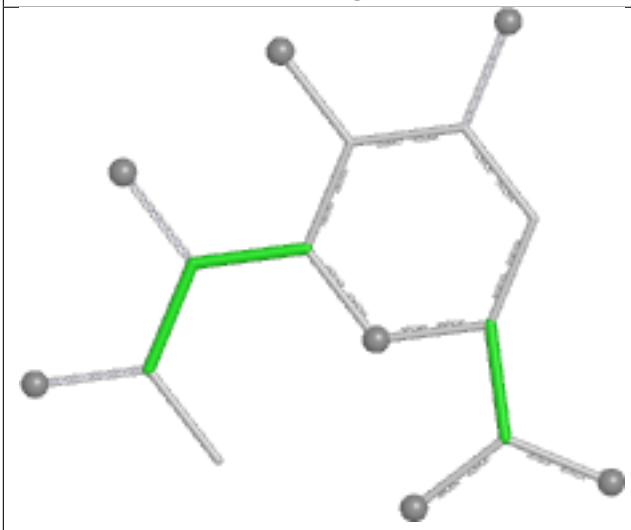
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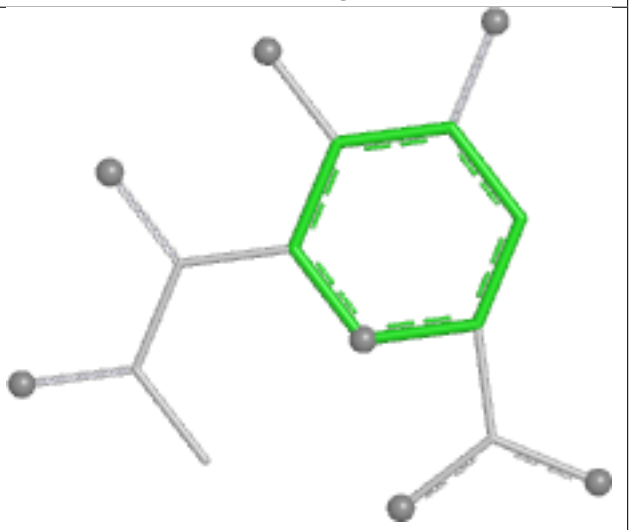
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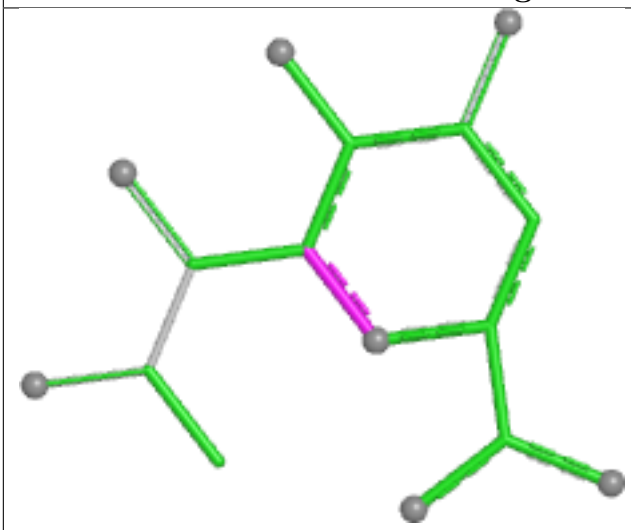


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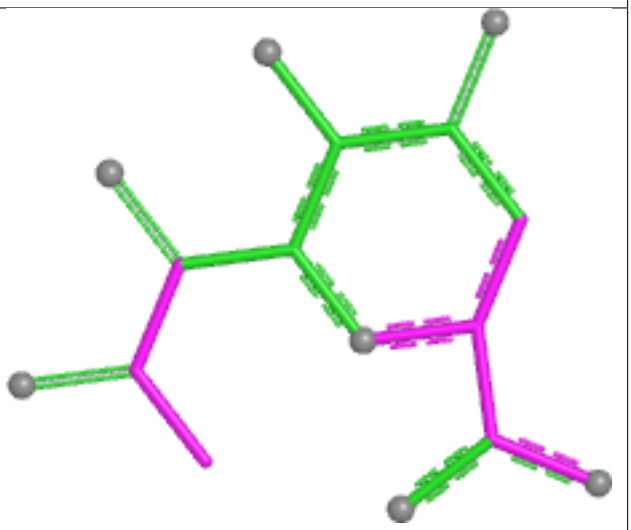


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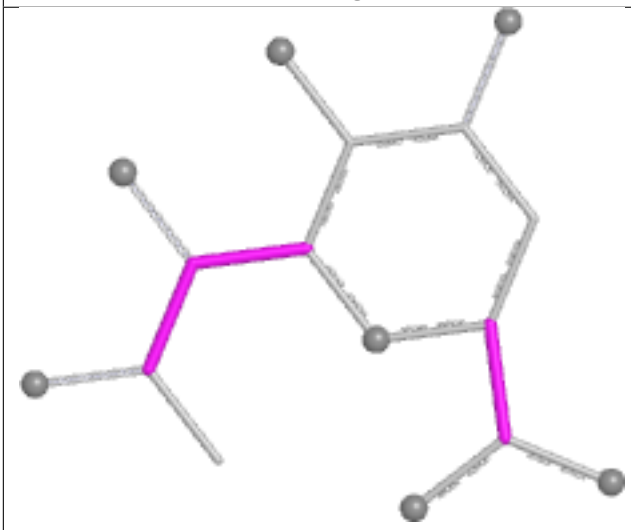
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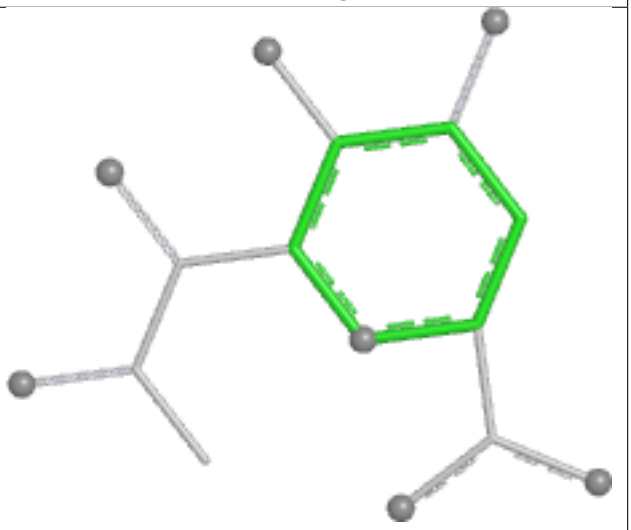
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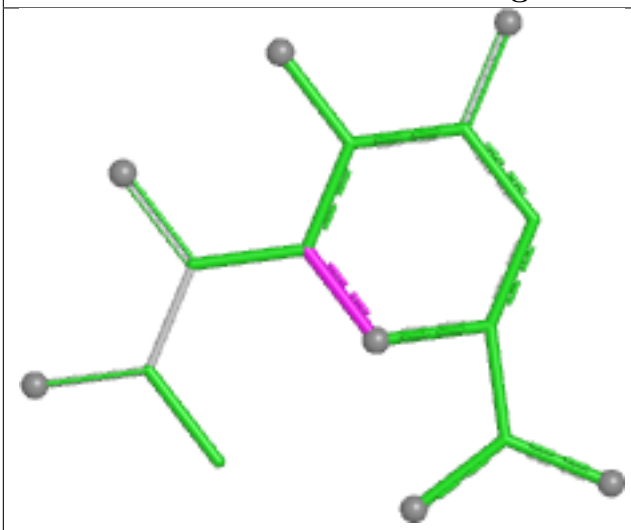


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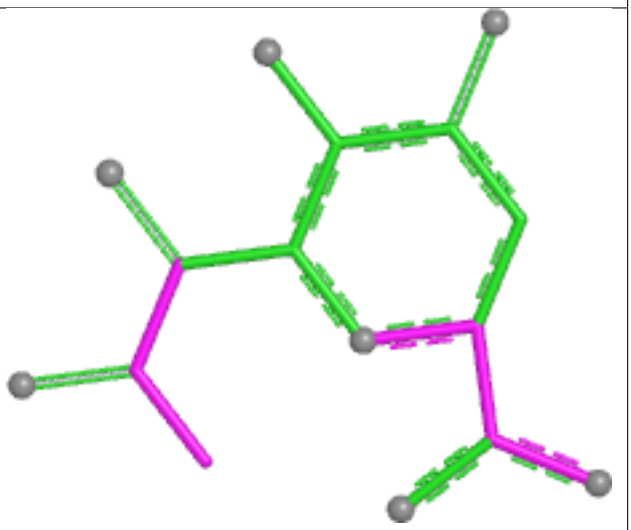


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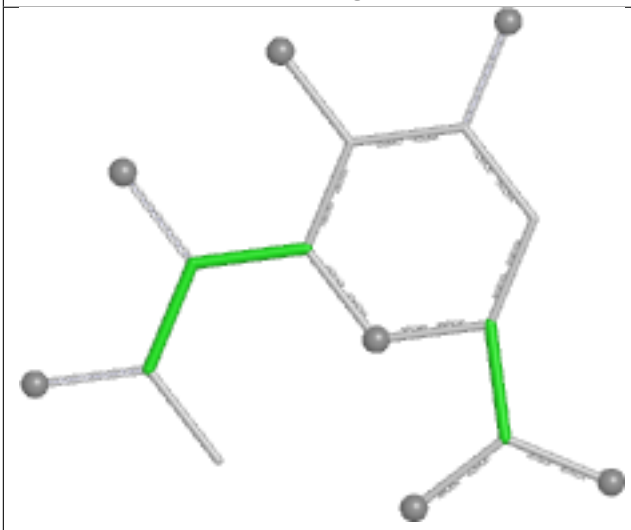
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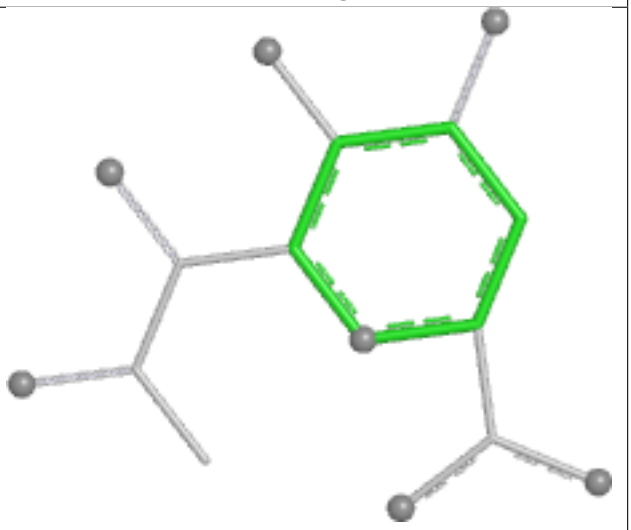
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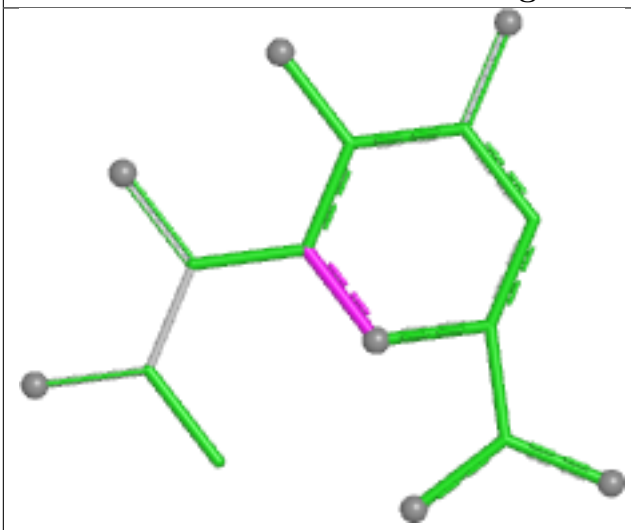


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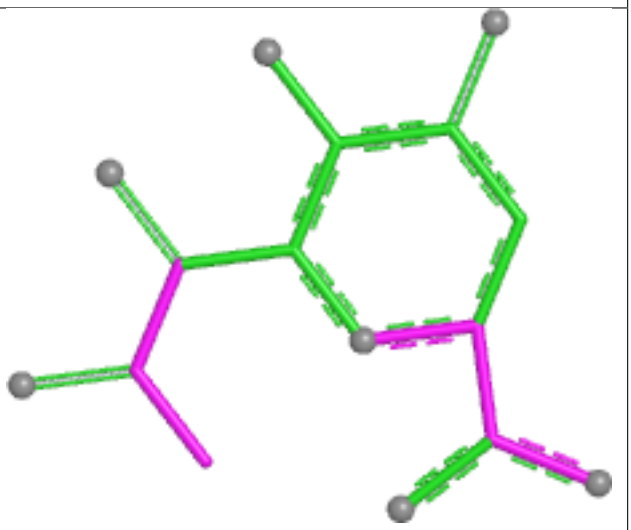


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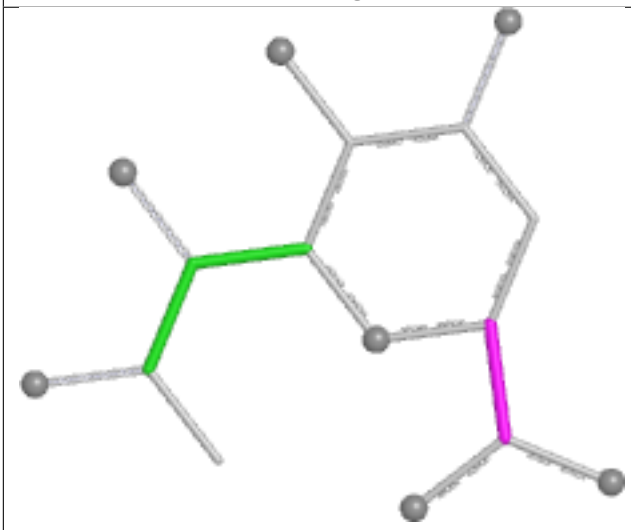
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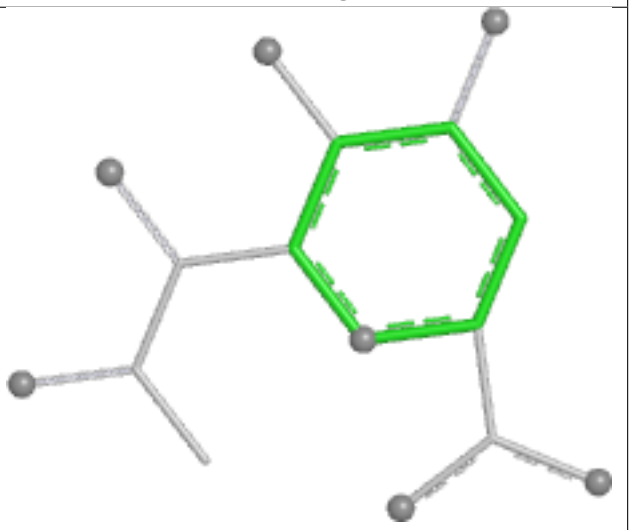
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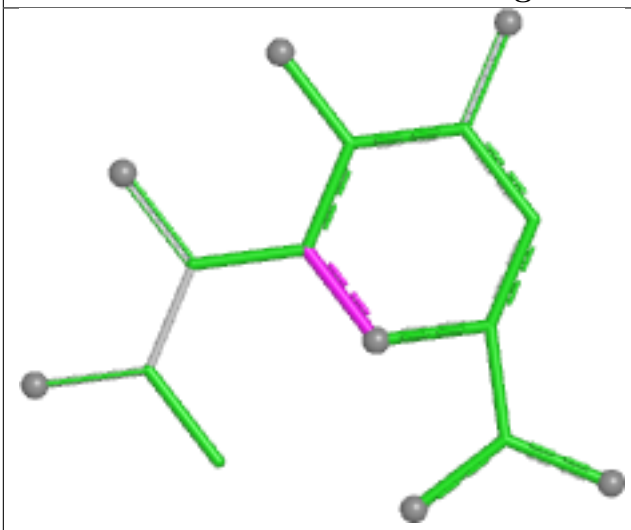


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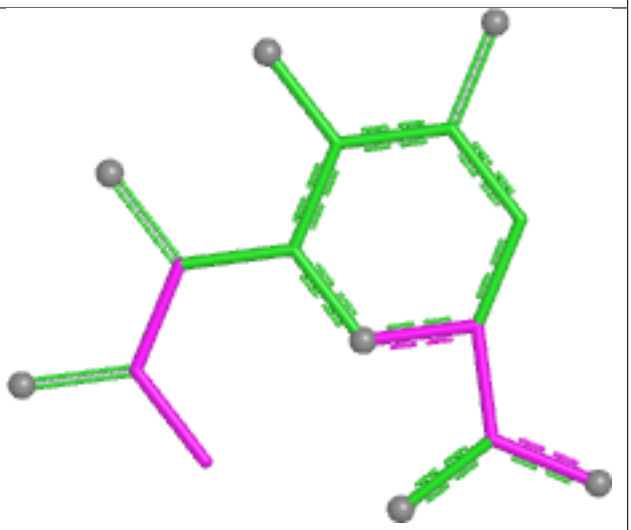


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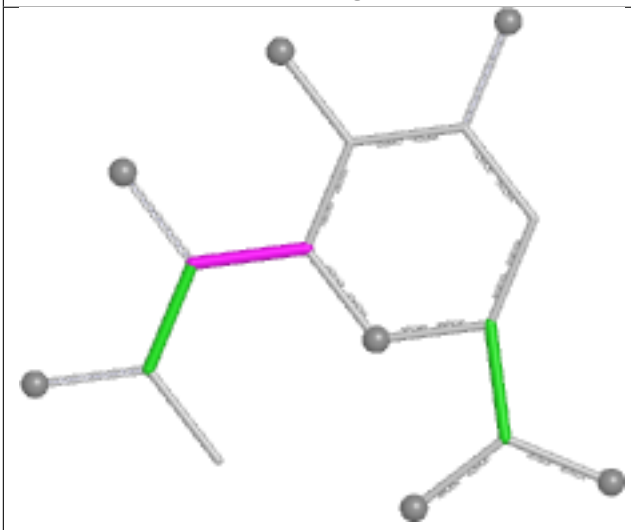
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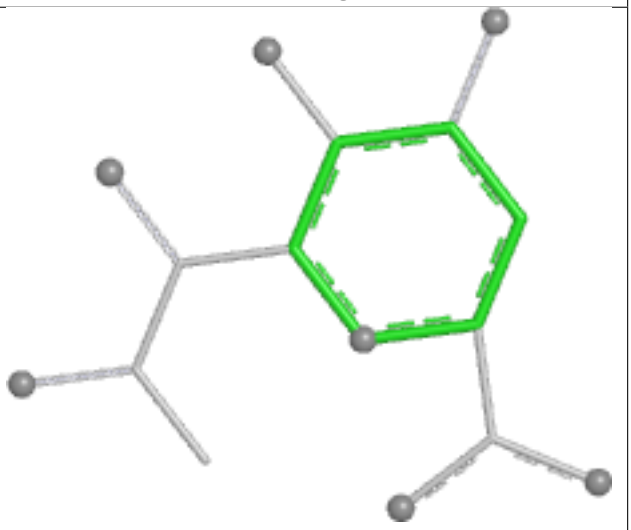
Bond lengths



Bond angles

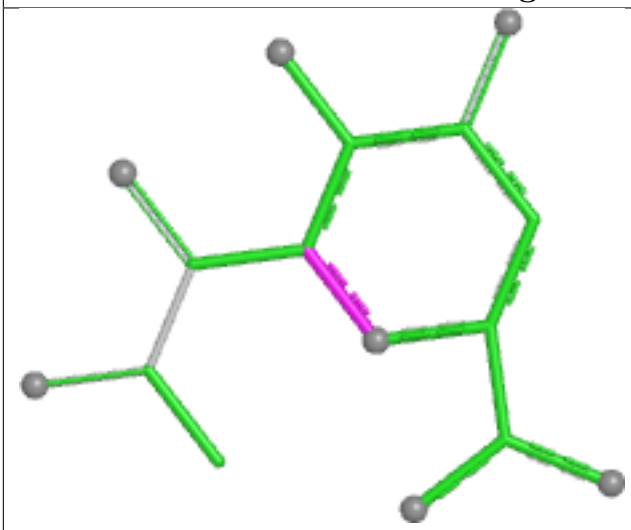


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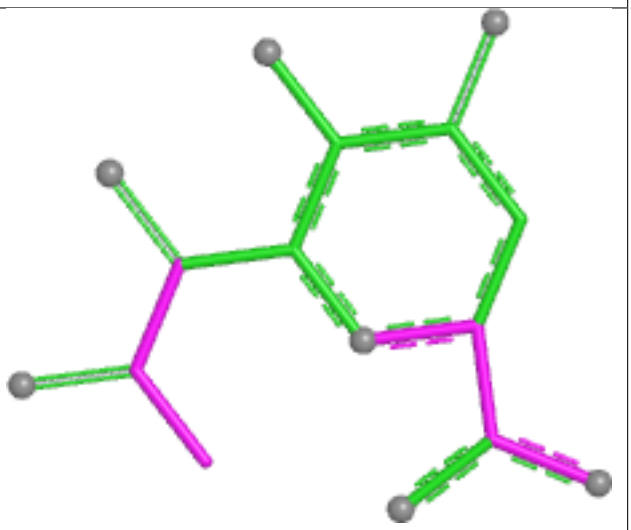


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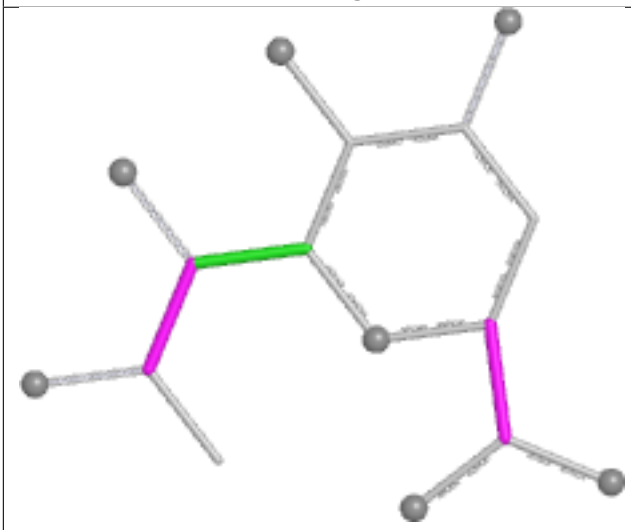
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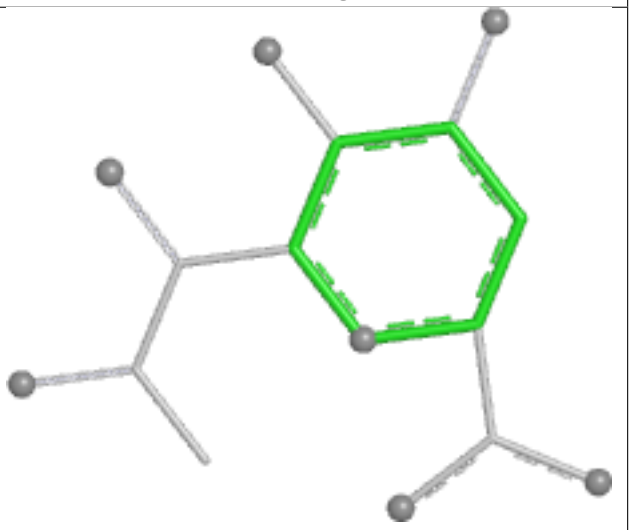
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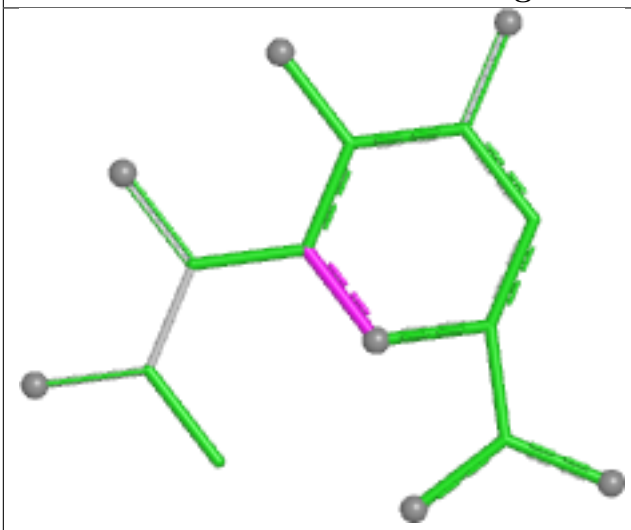


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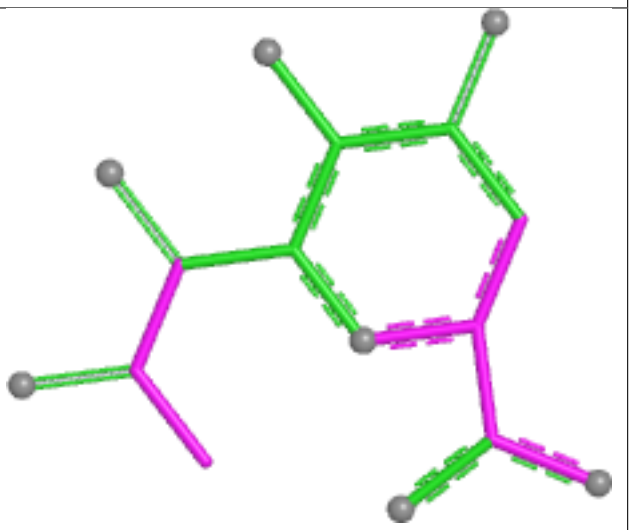


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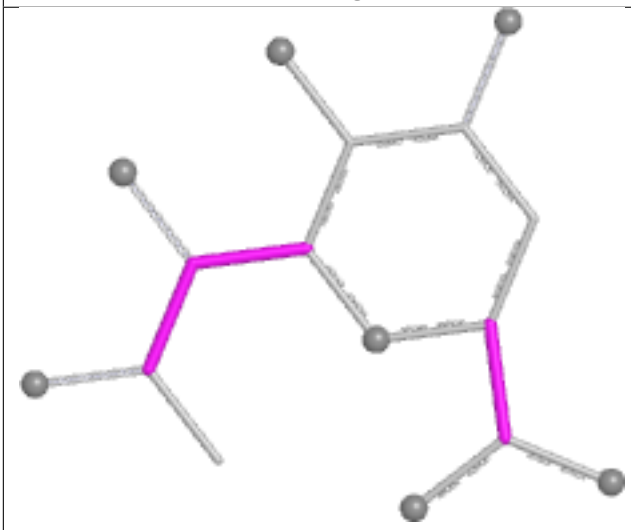
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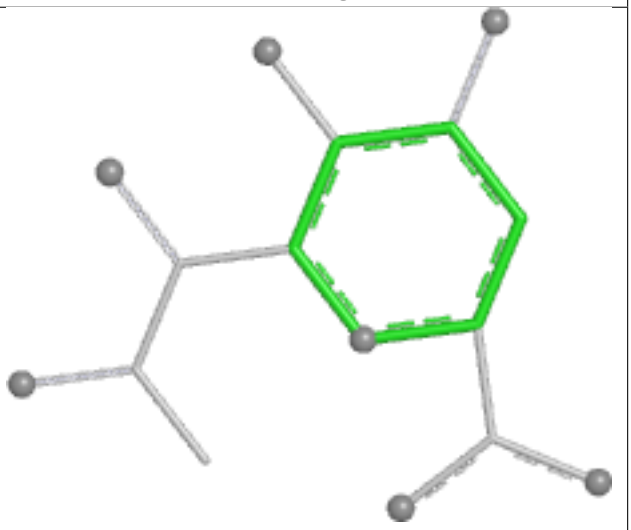
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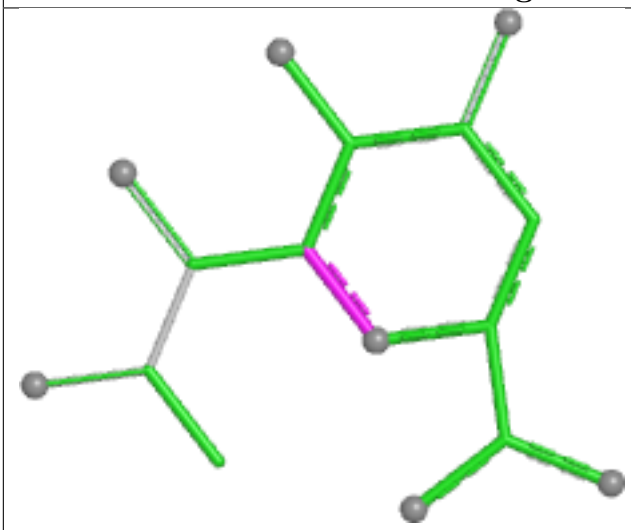


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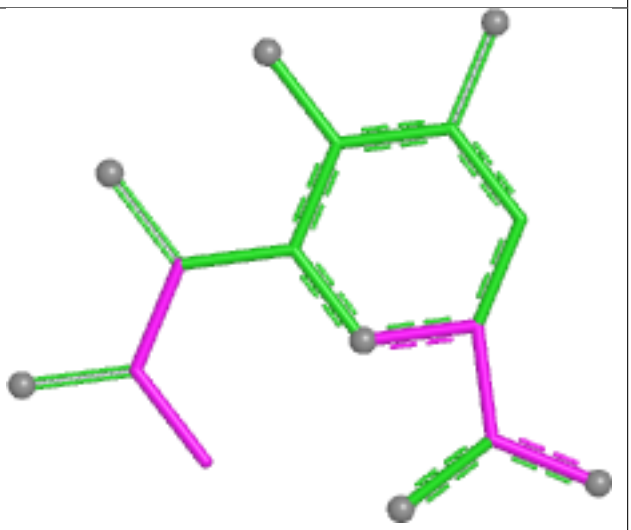


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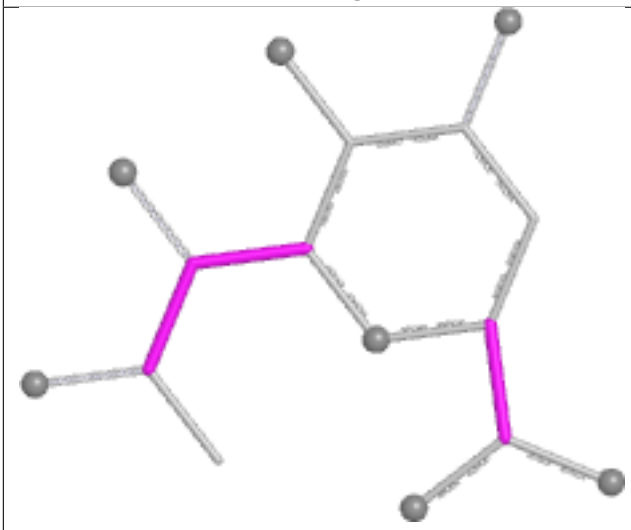
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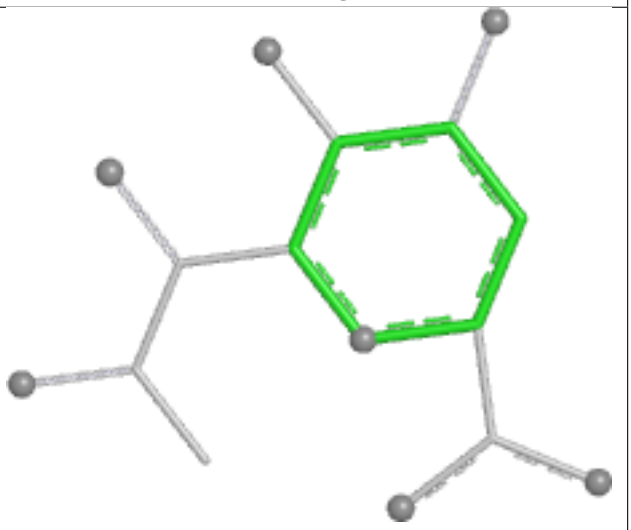
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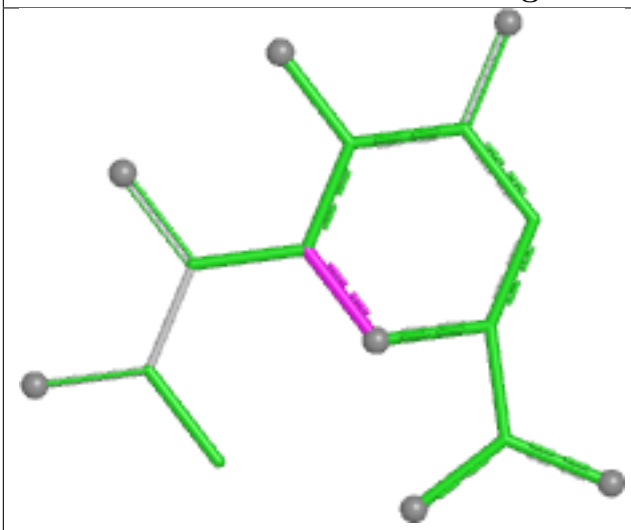


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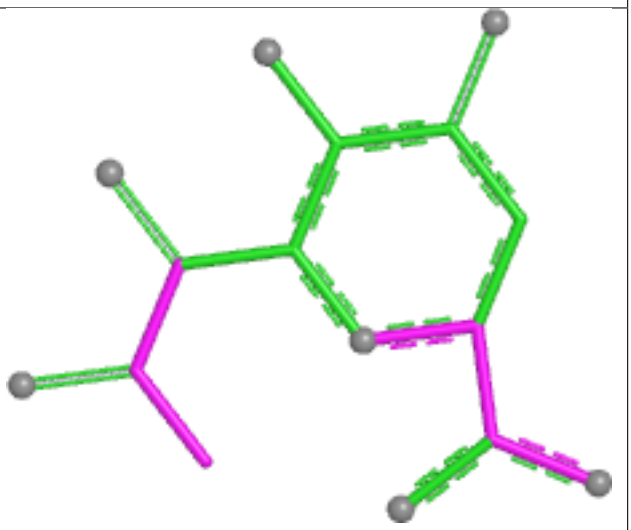


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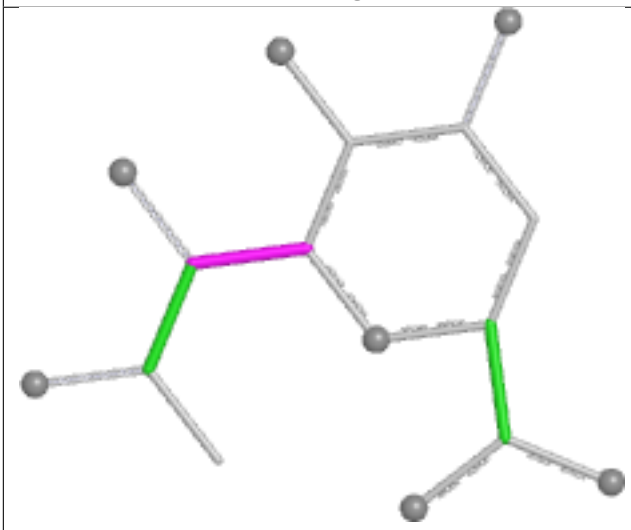
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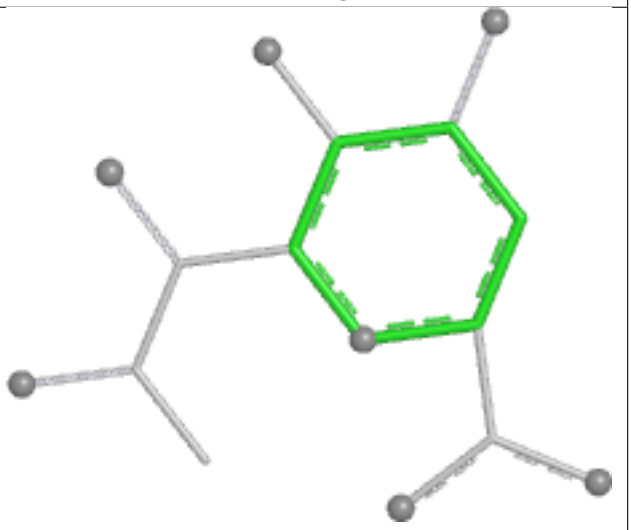
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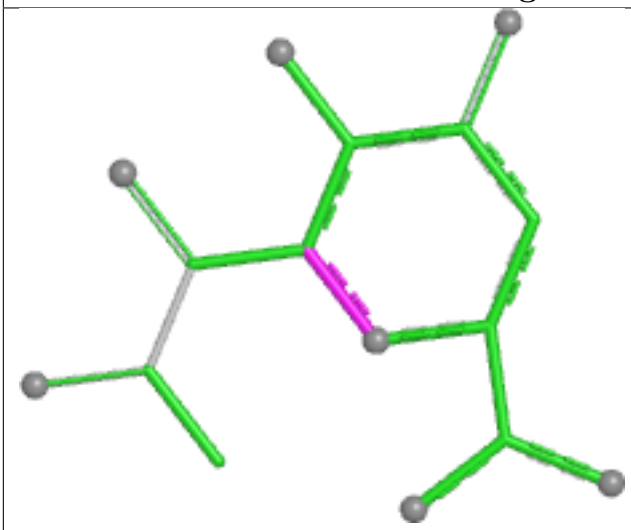


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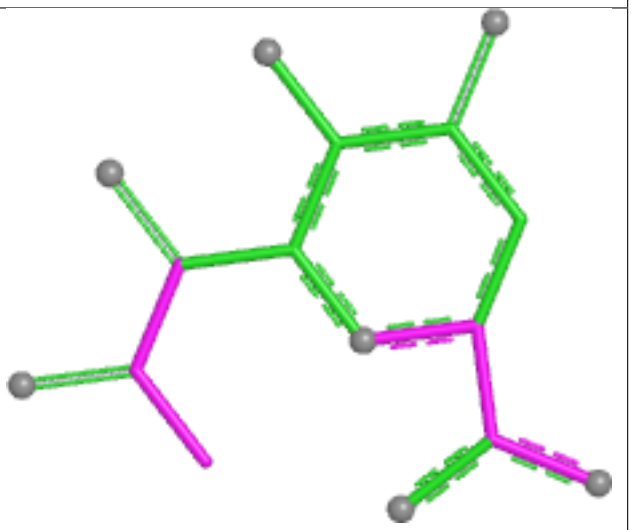


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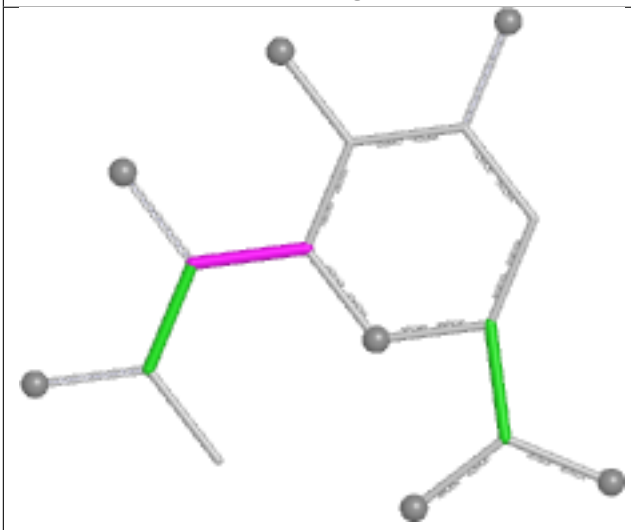
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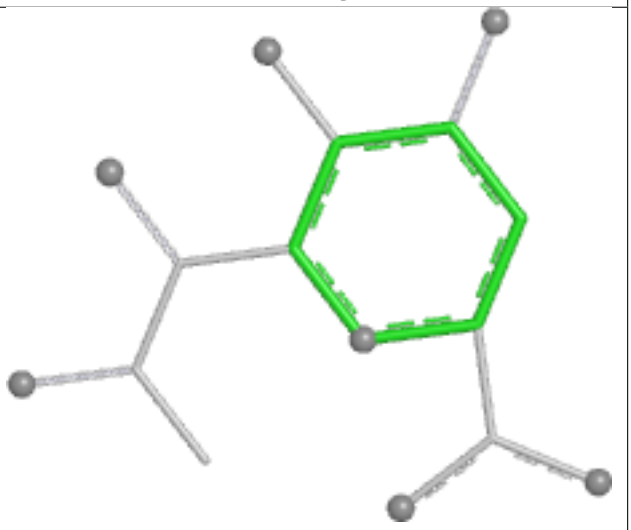
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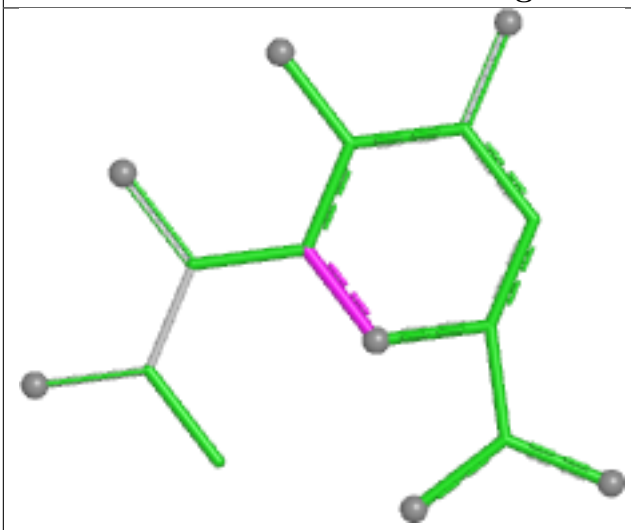


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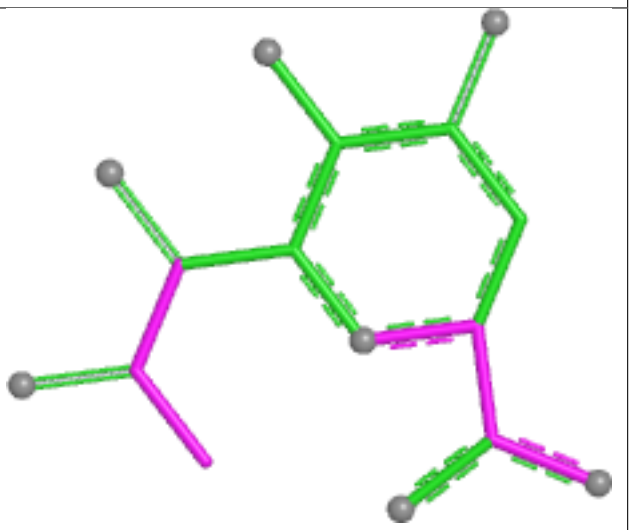


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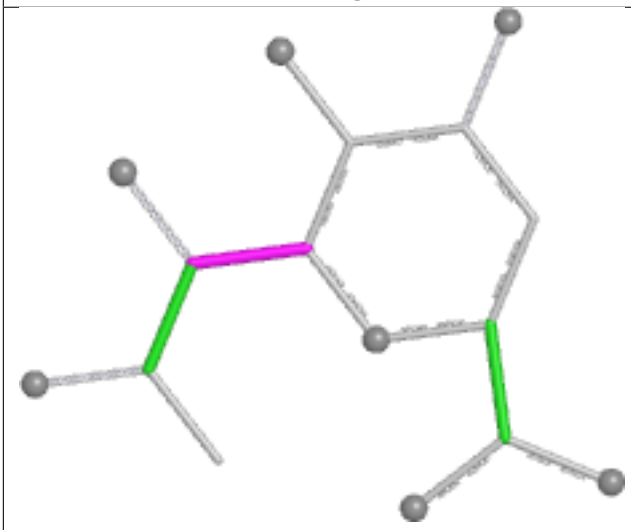
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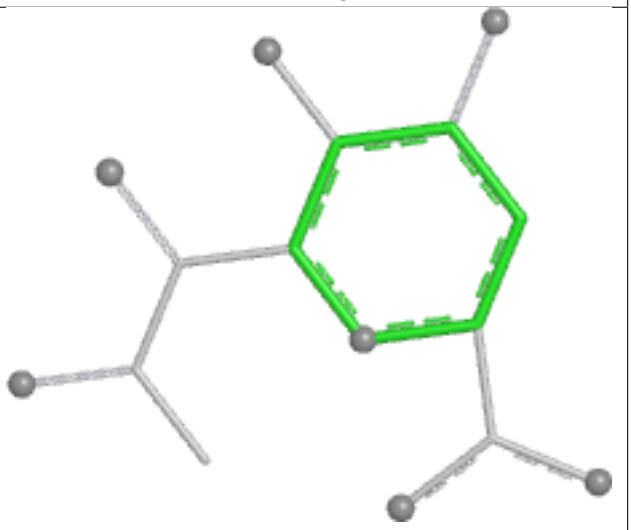
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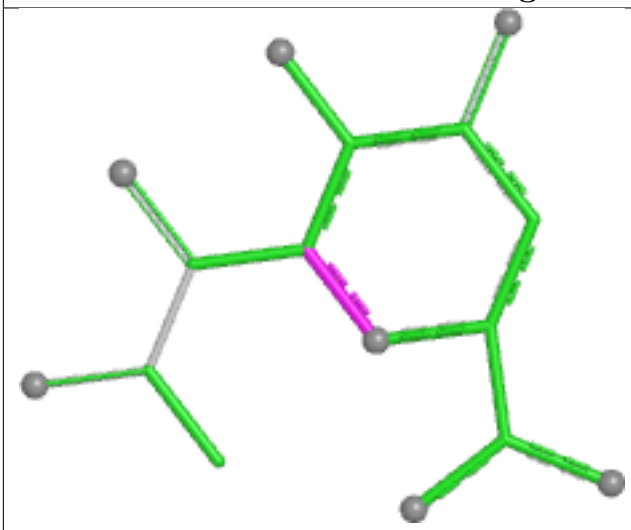


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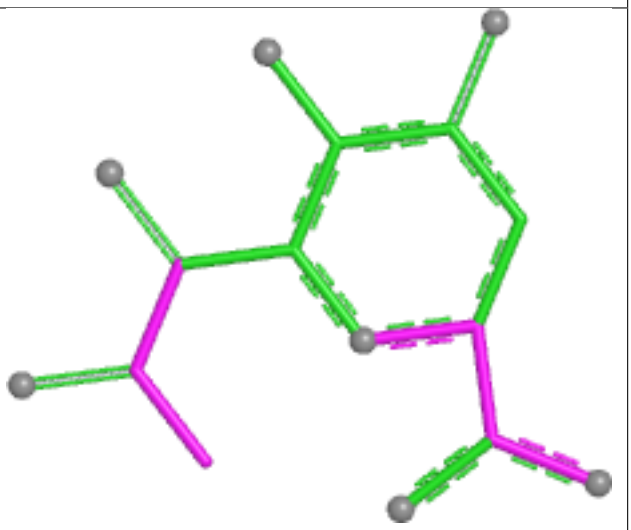


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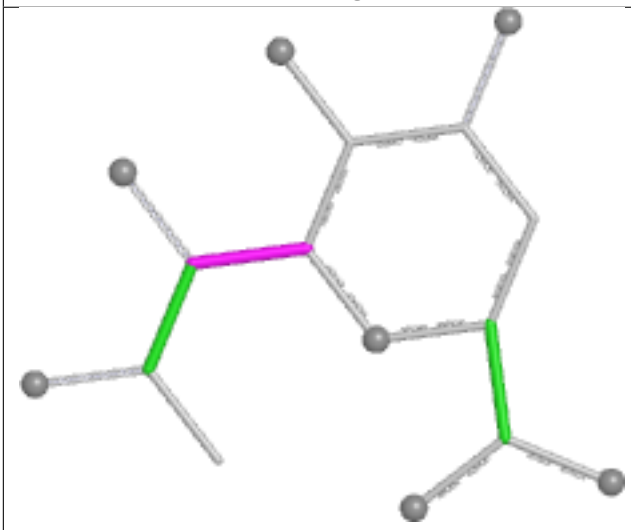
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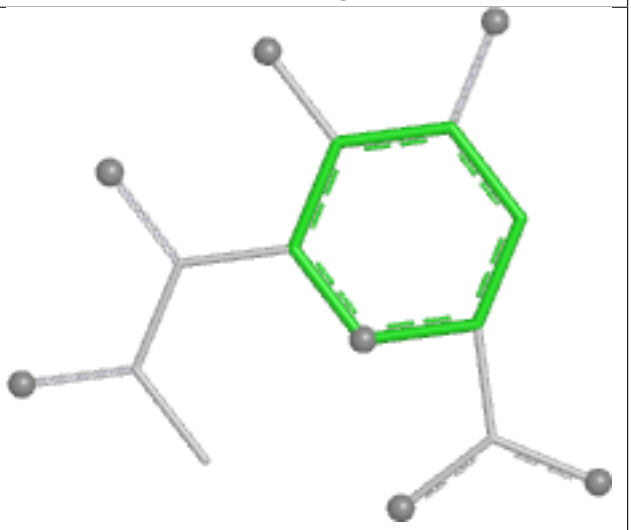
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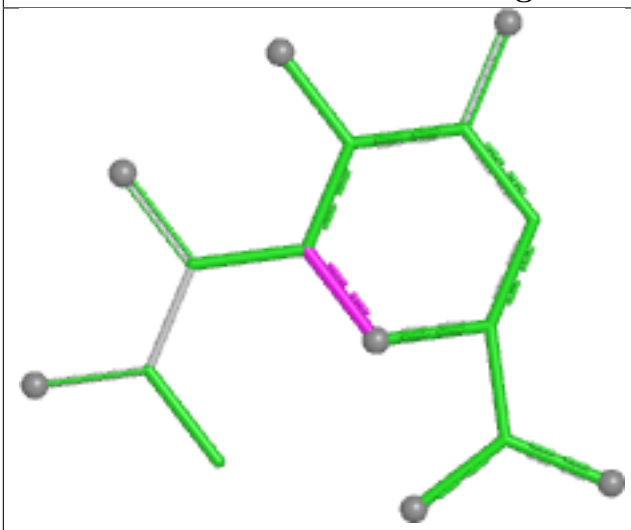


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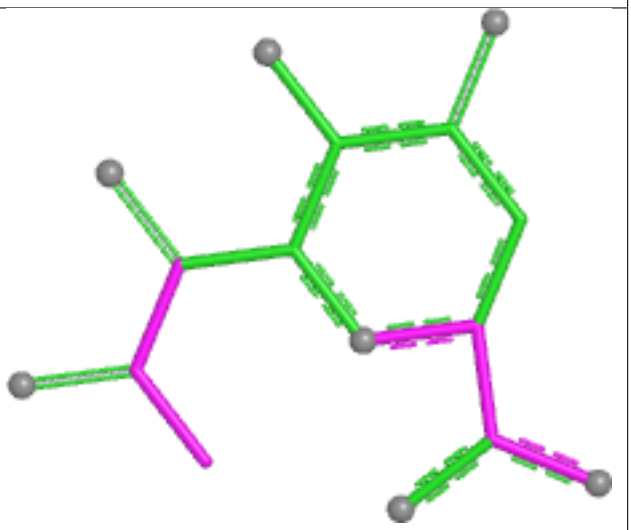


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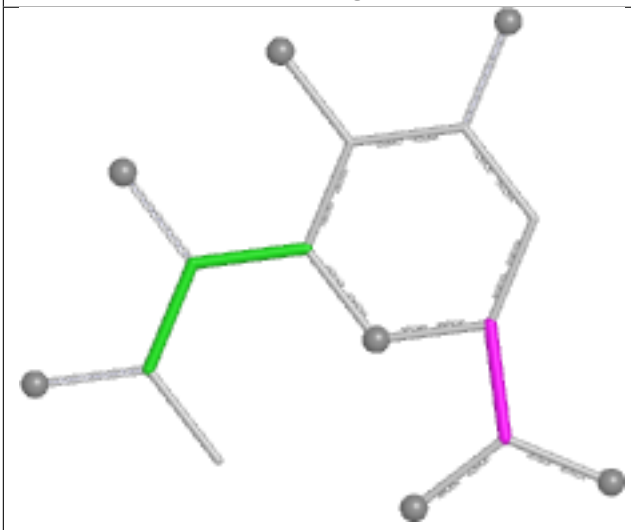
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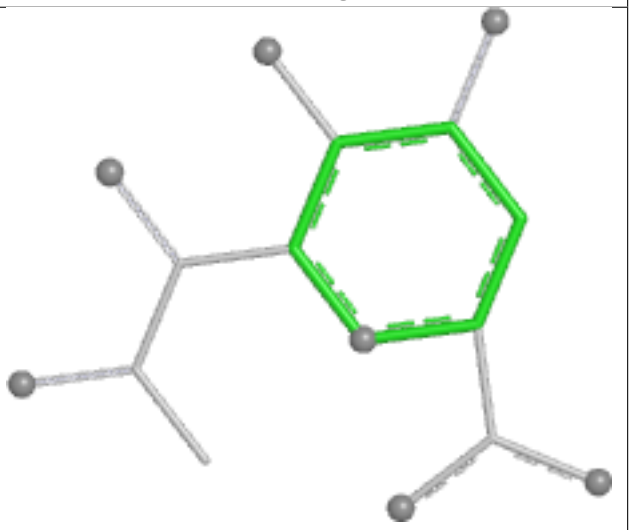
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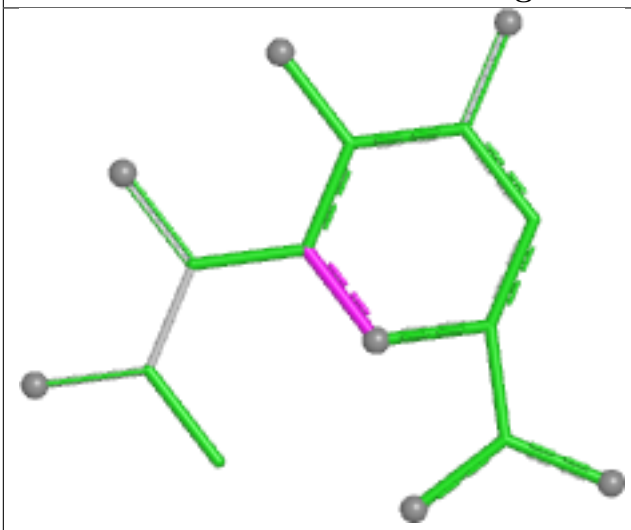


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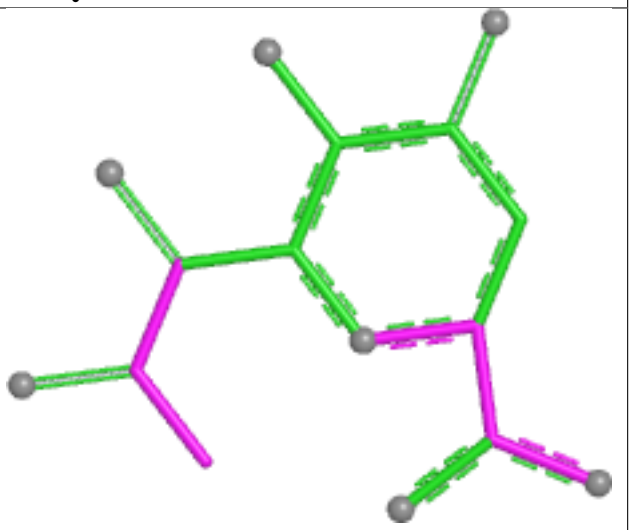


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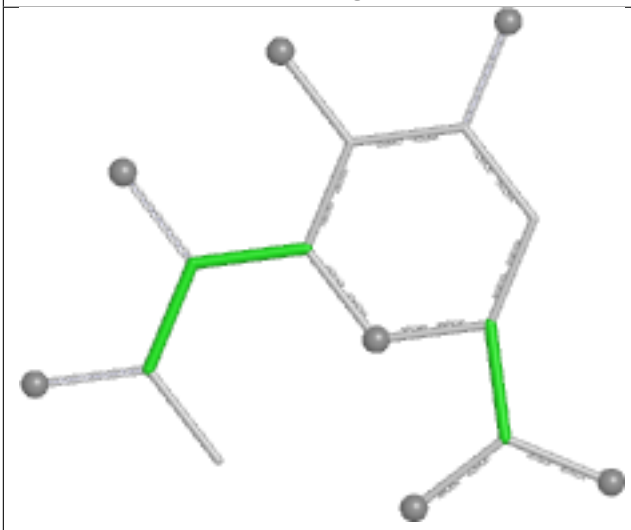
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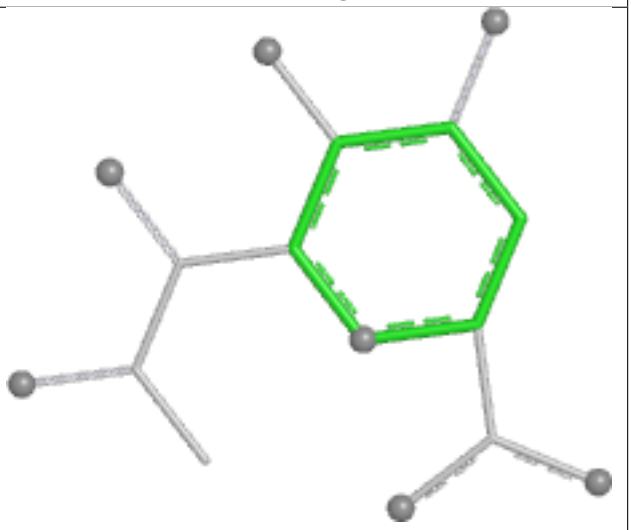
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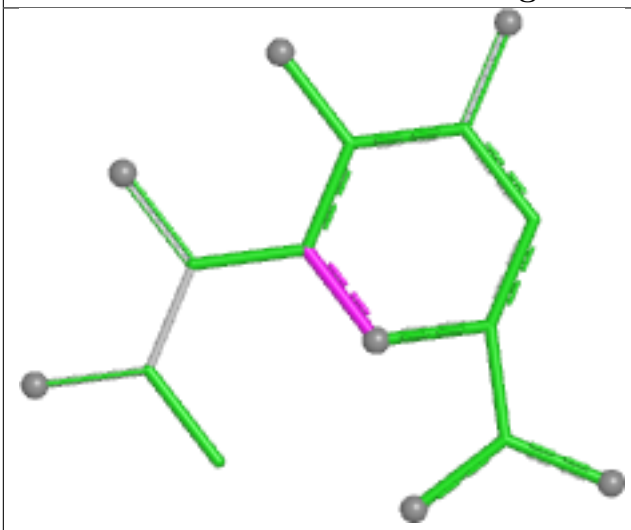


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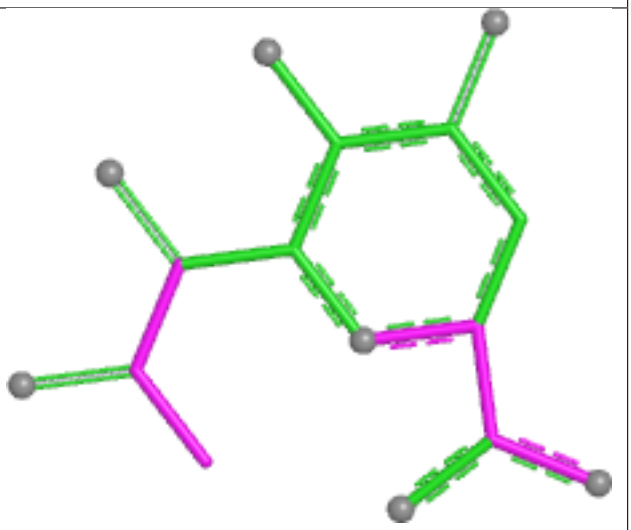


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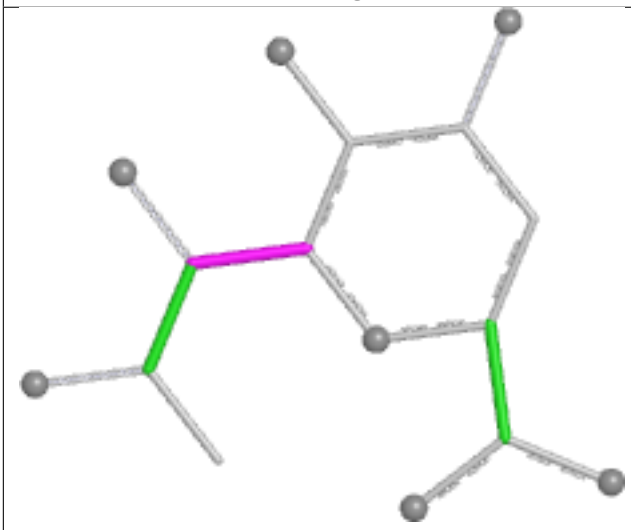
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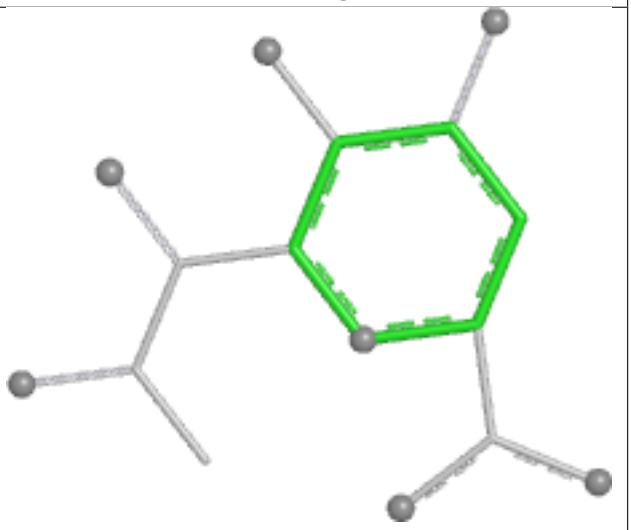
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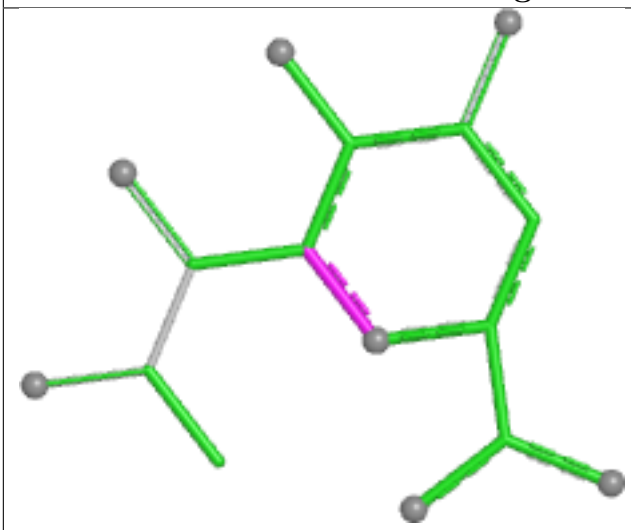


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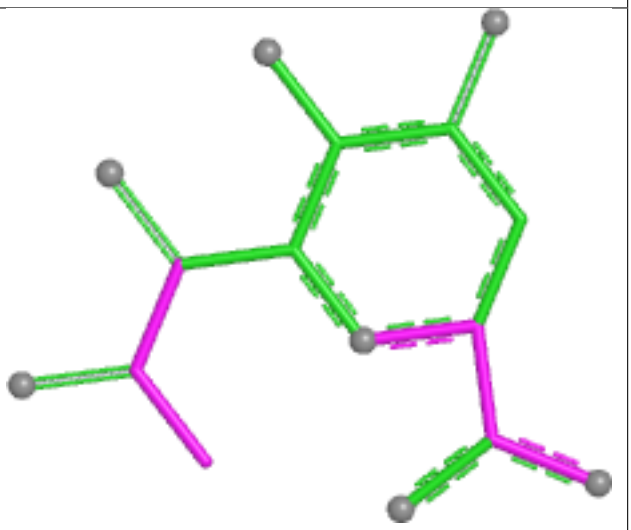


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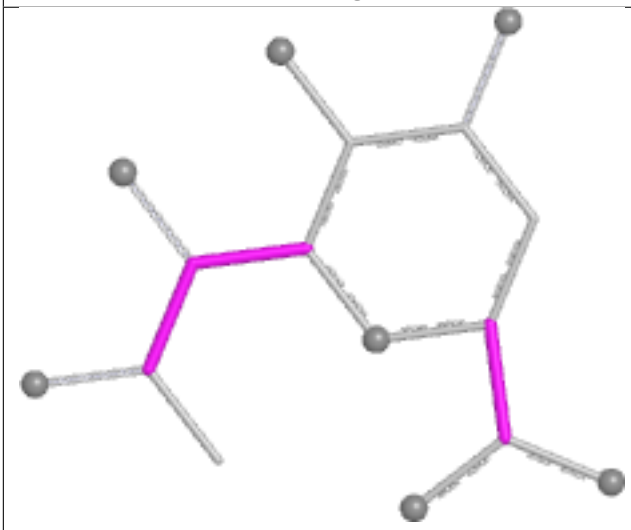
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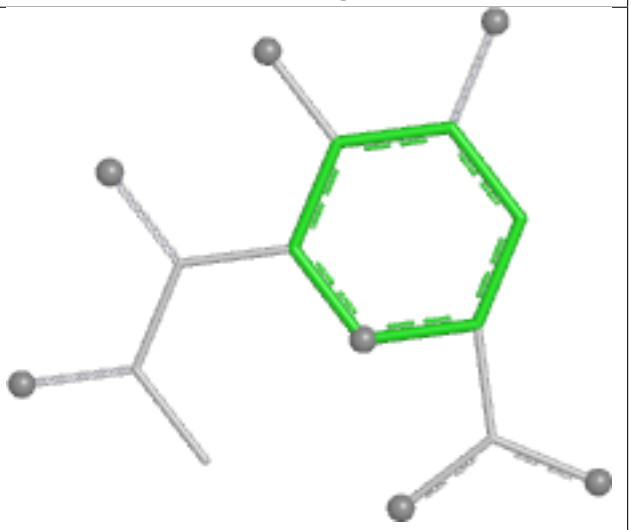
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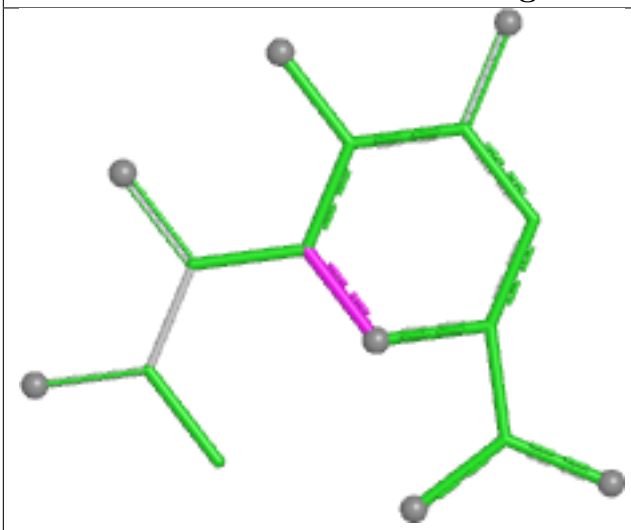


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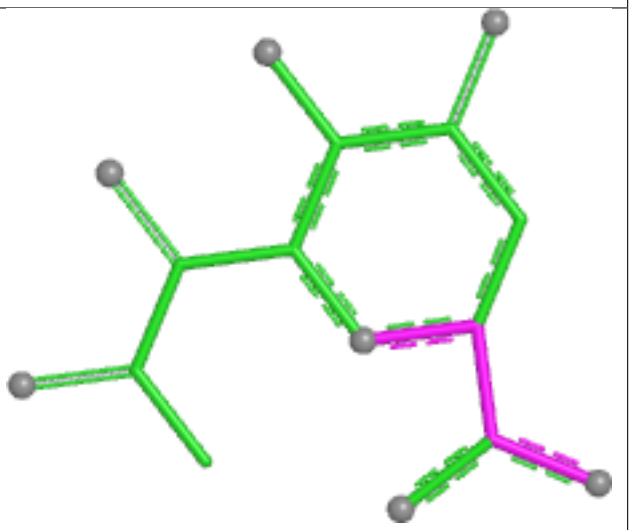


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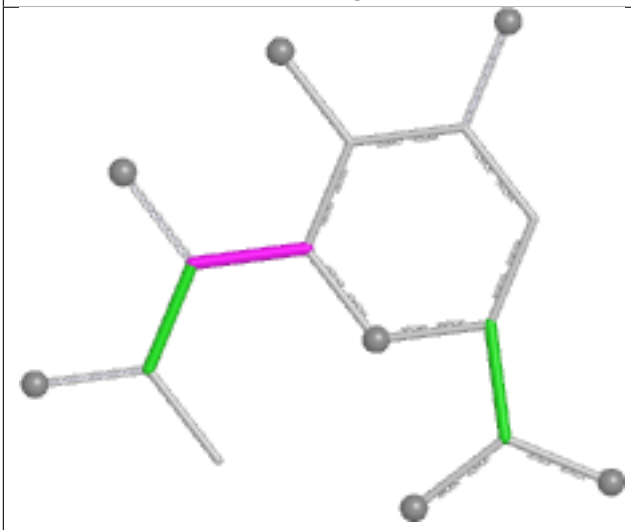
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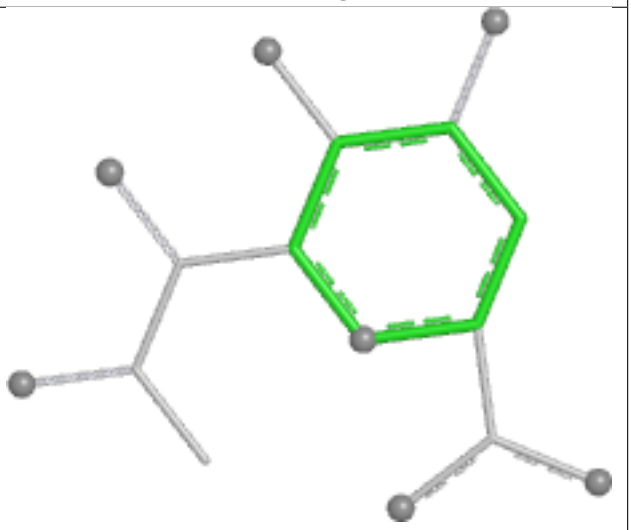
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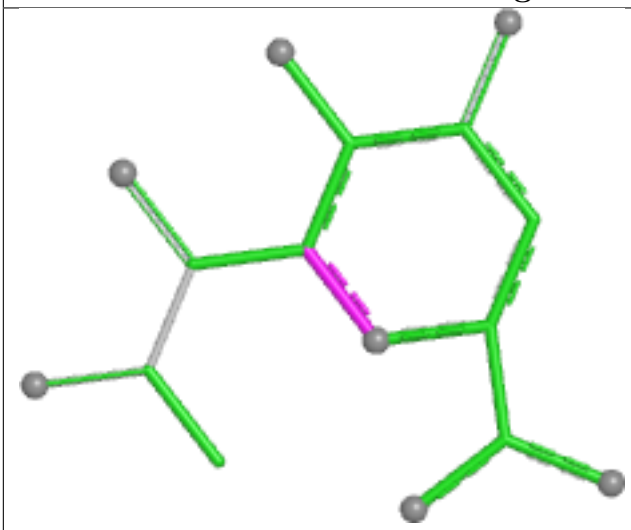


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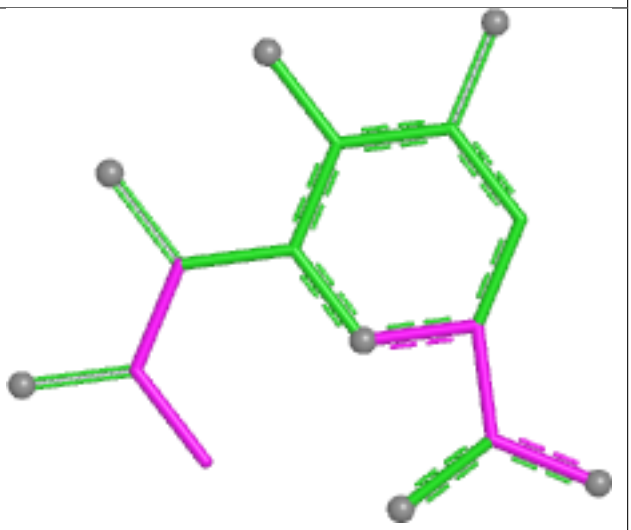


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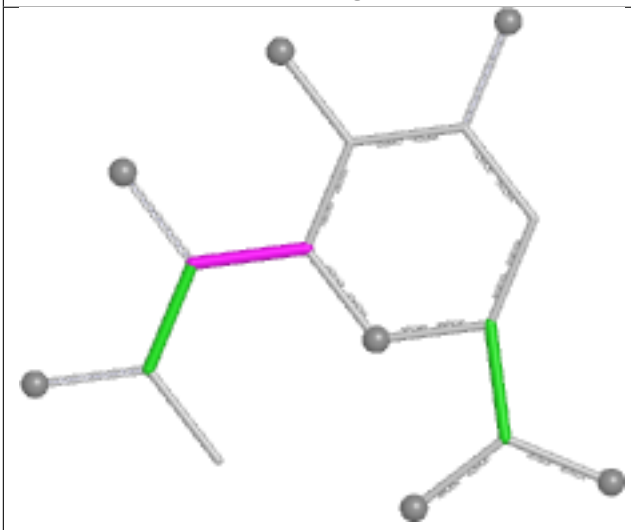
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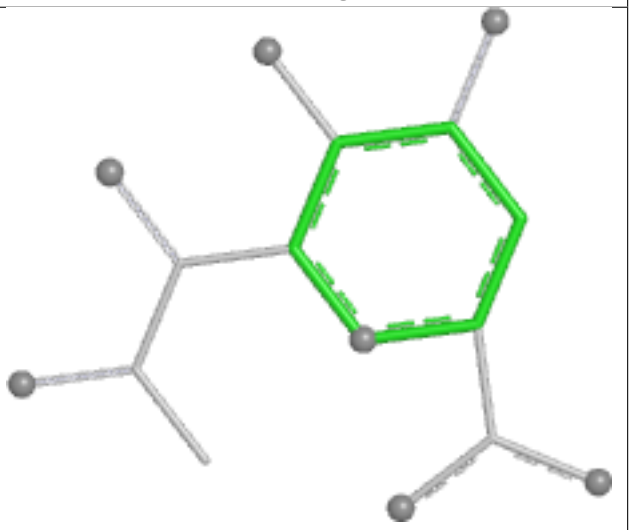
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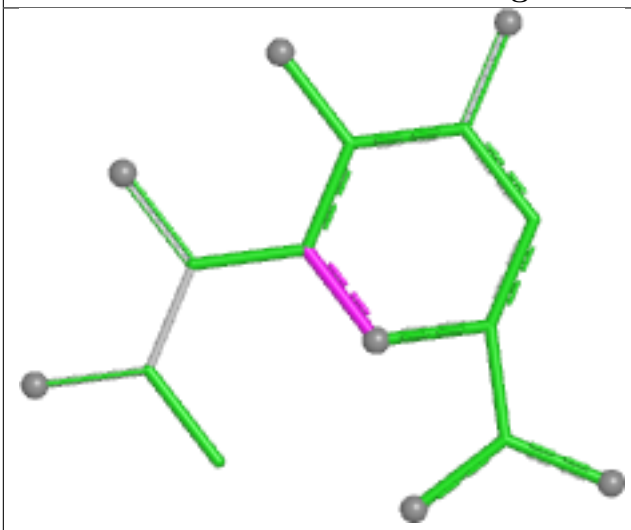


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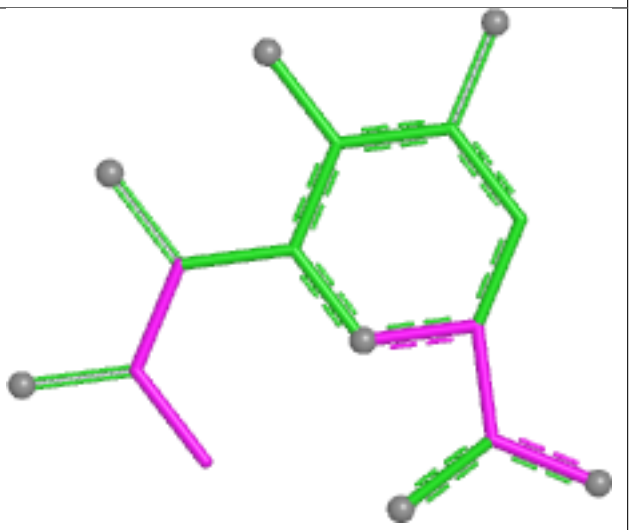


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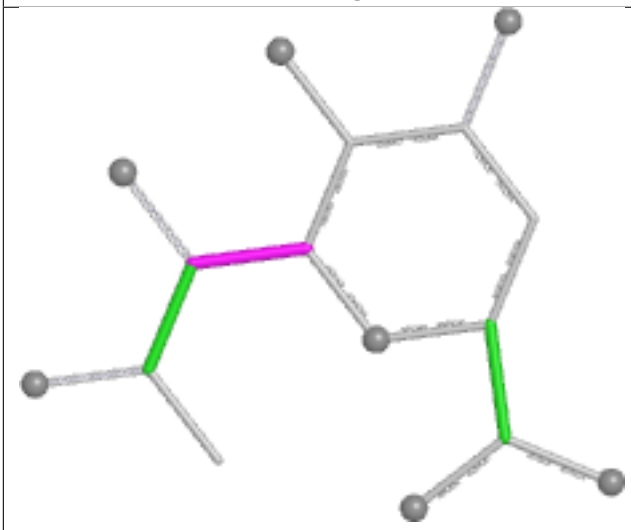
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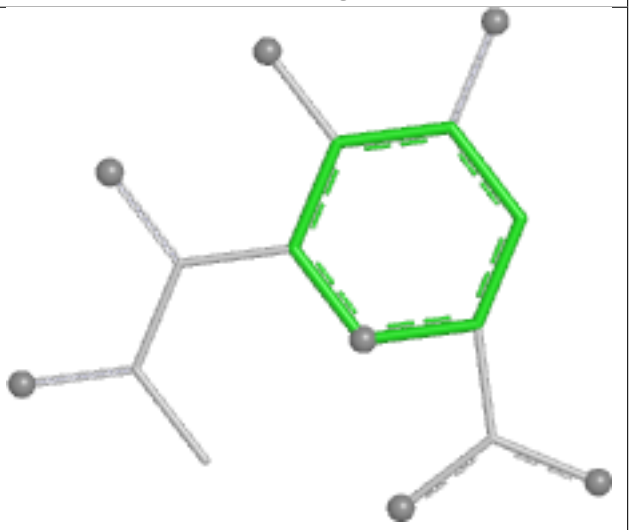
Bond lengths



Bond angles

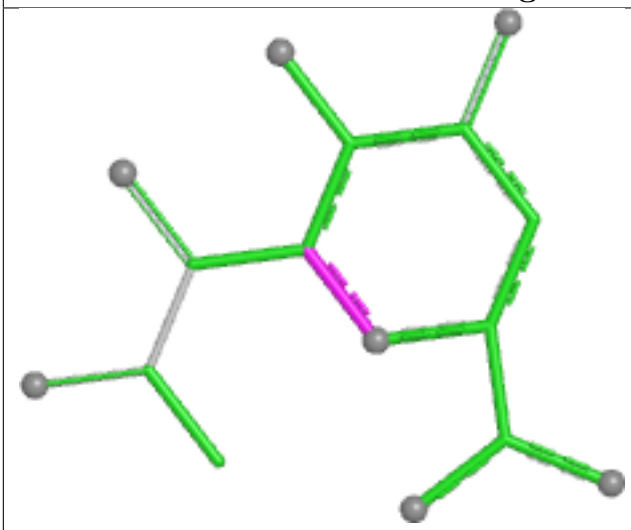


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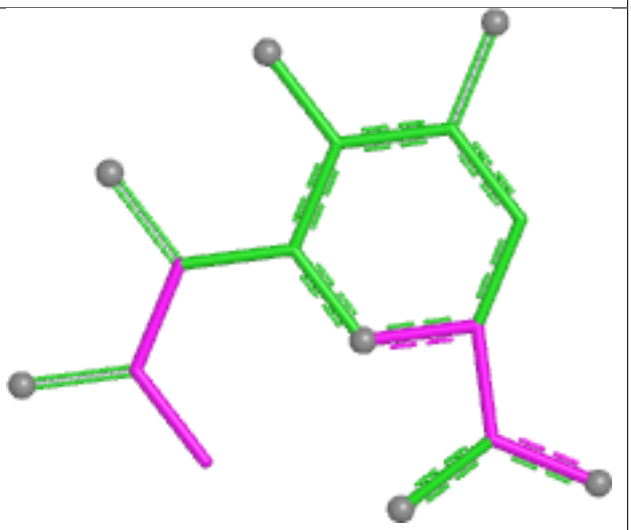


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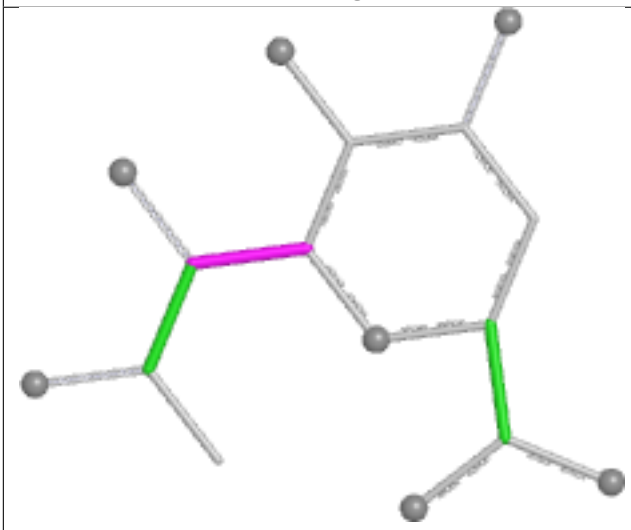
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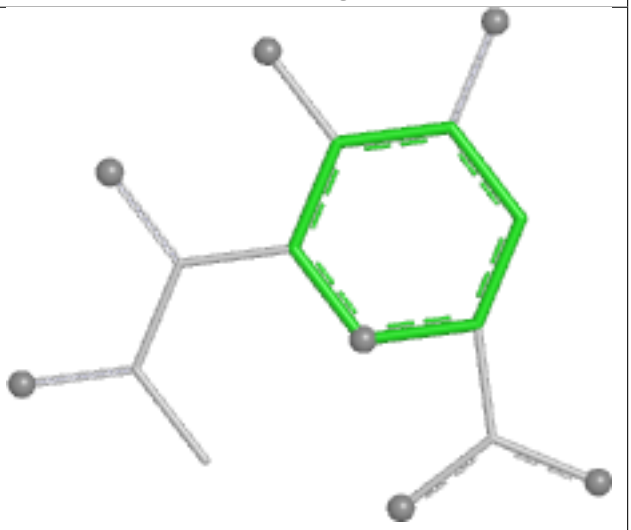
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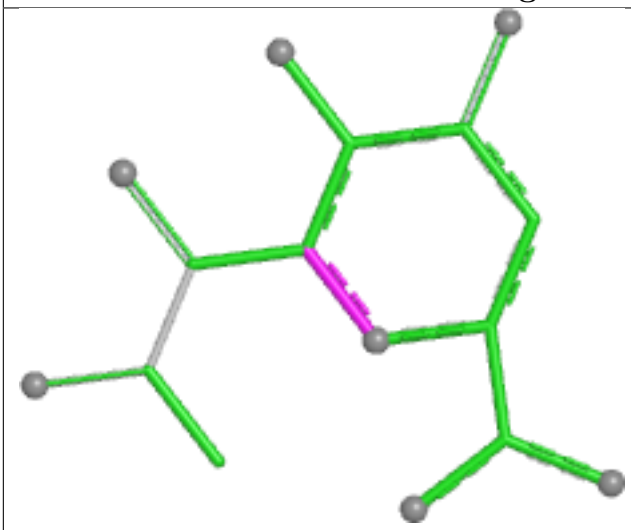


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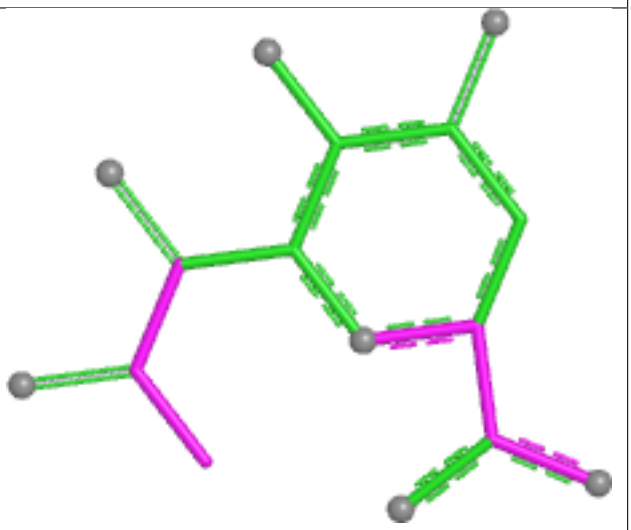


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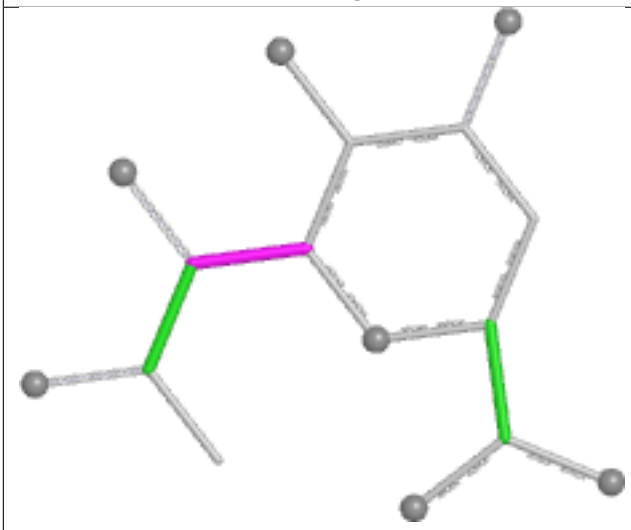
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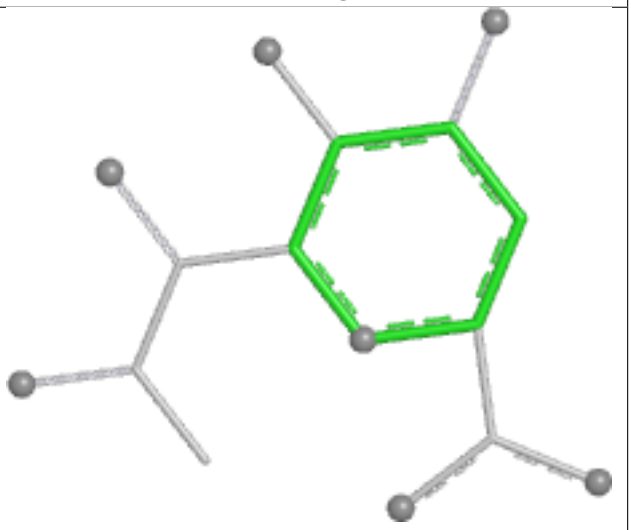
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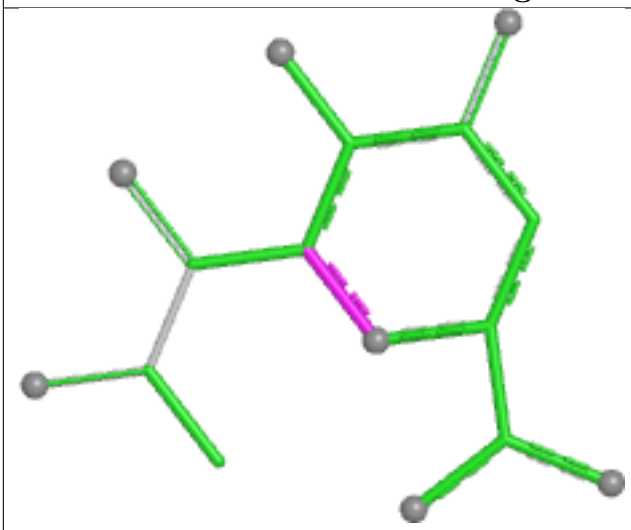


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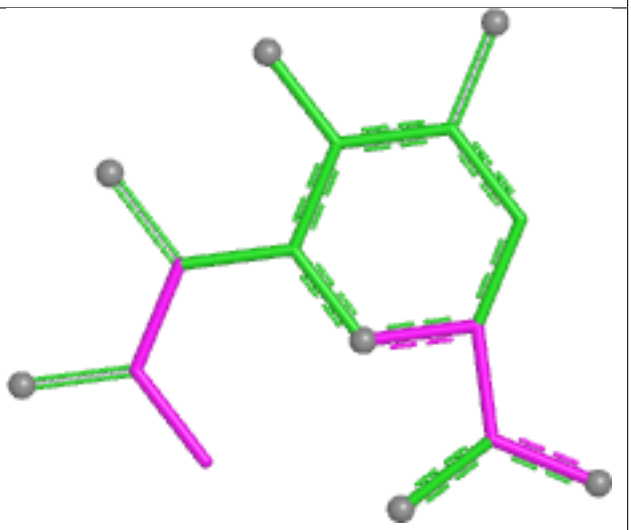


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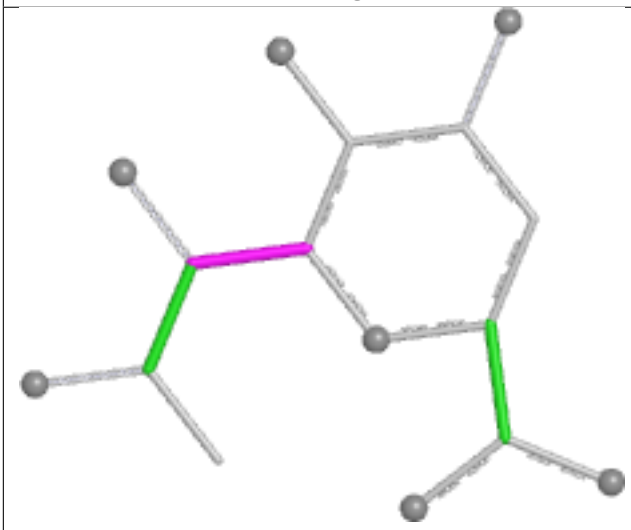
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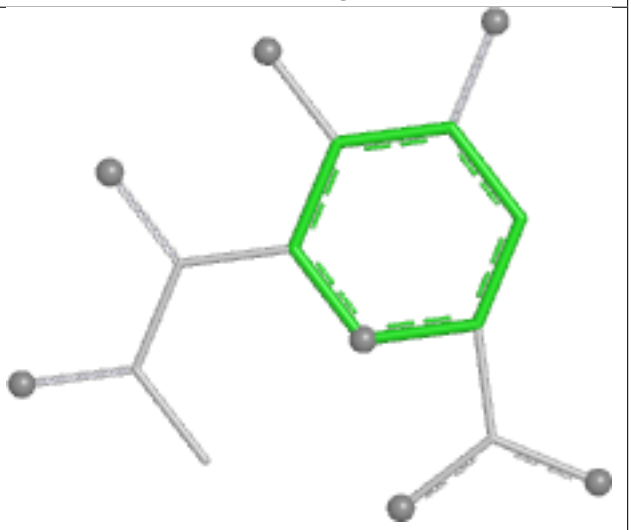
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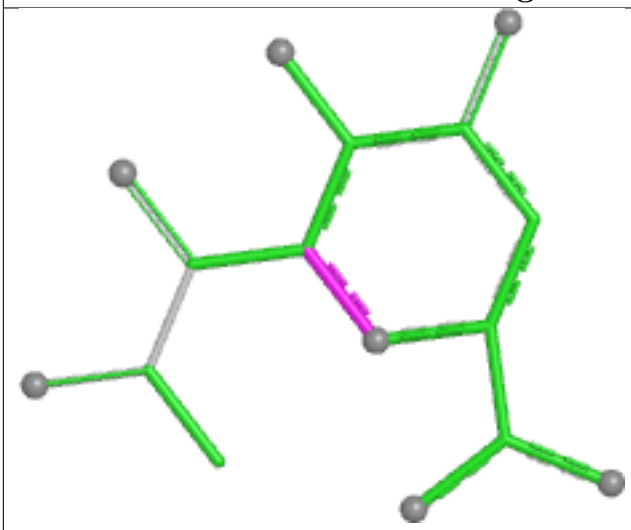


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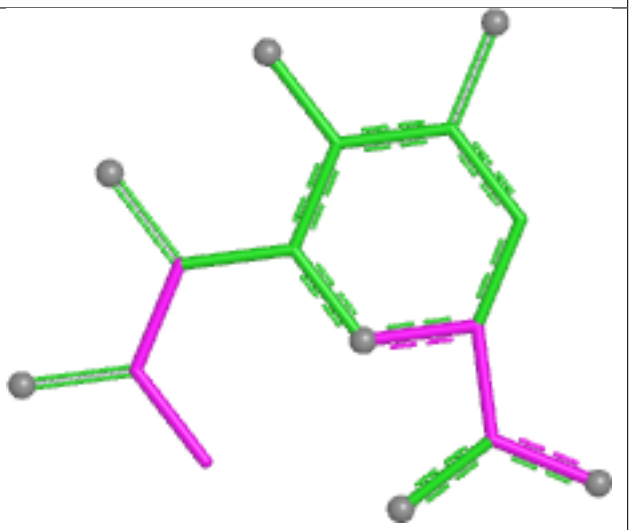


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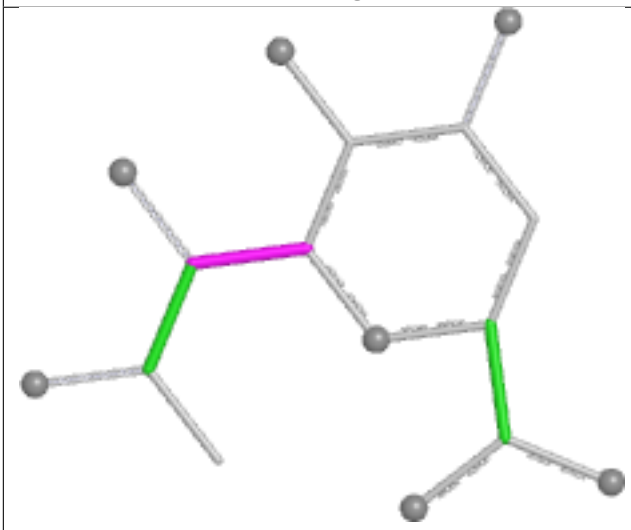
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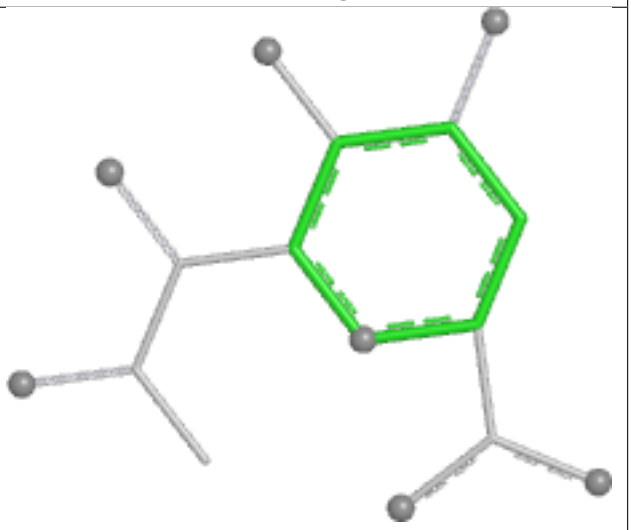
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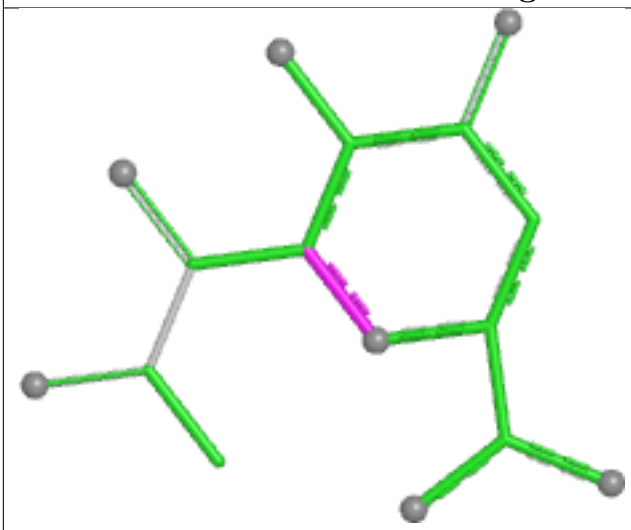


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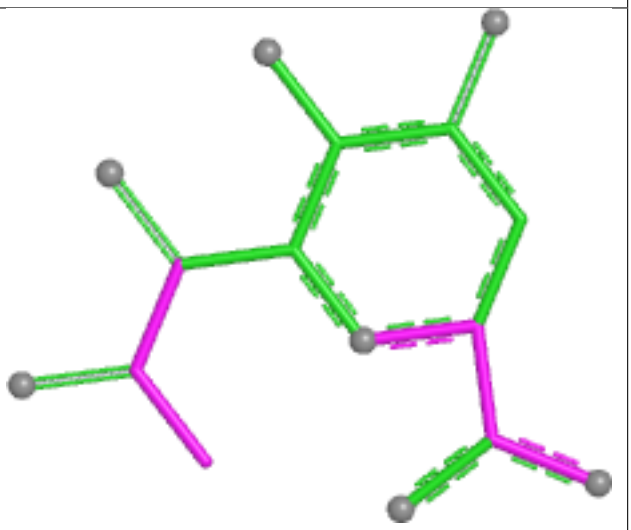


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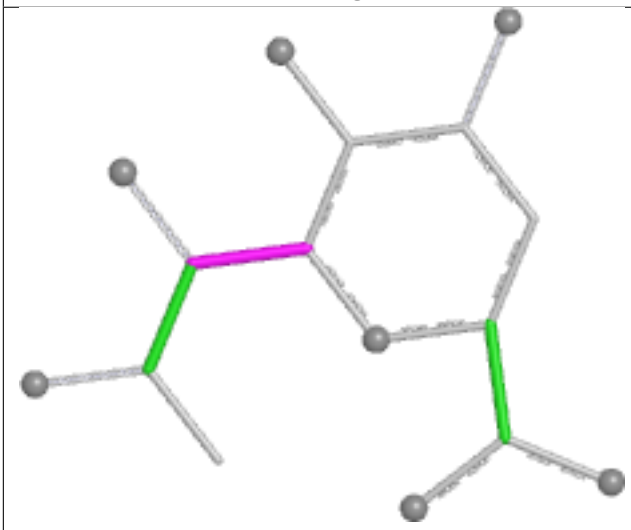
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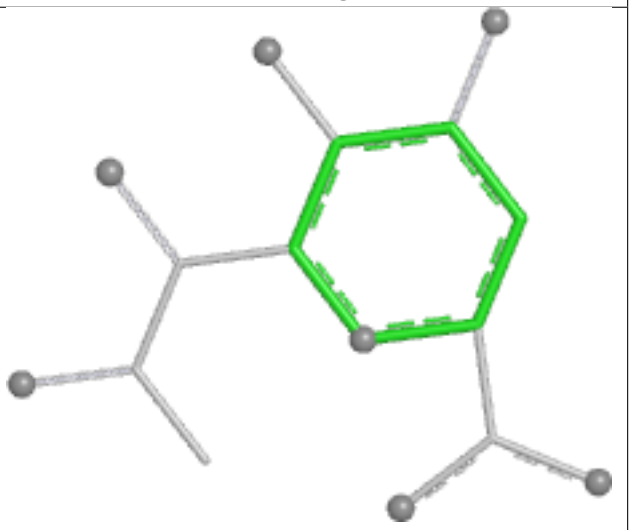
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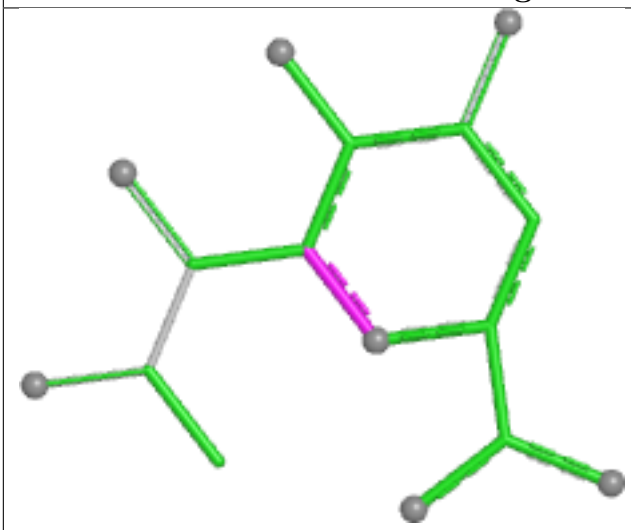


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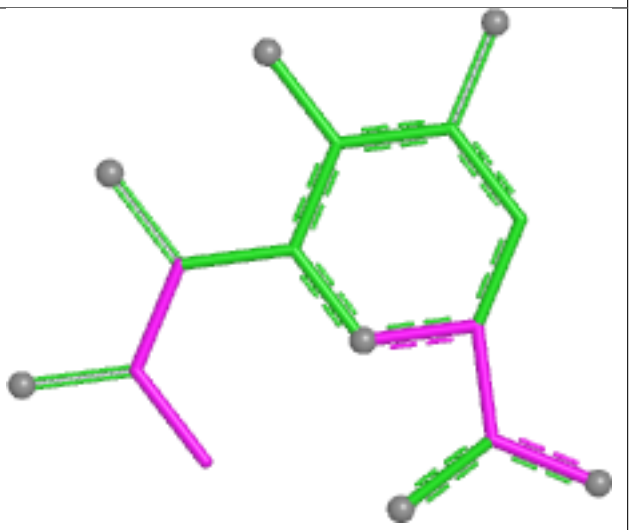


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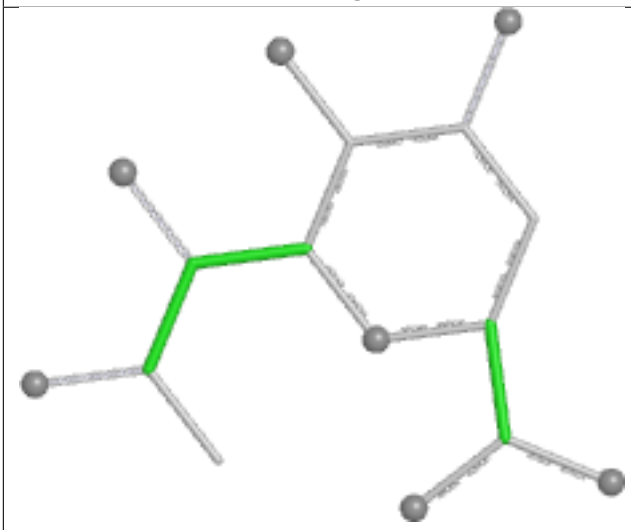
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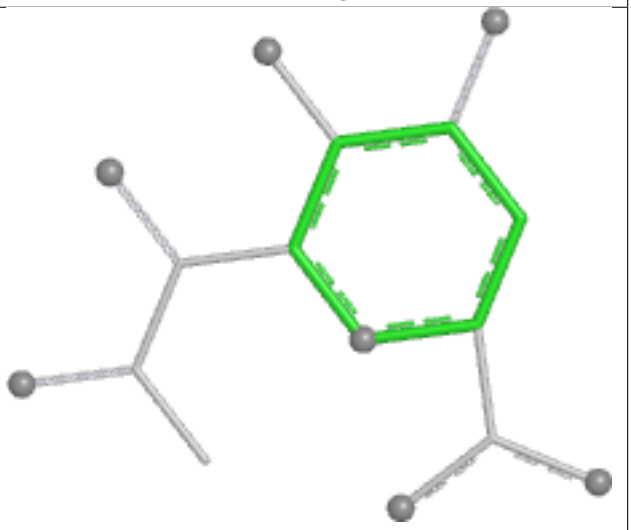
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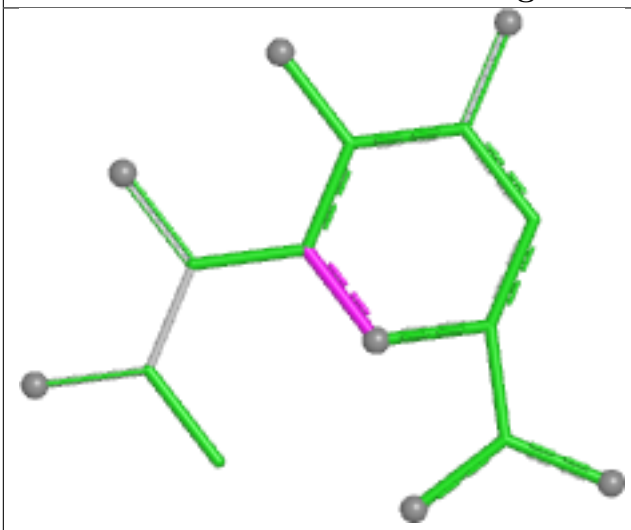


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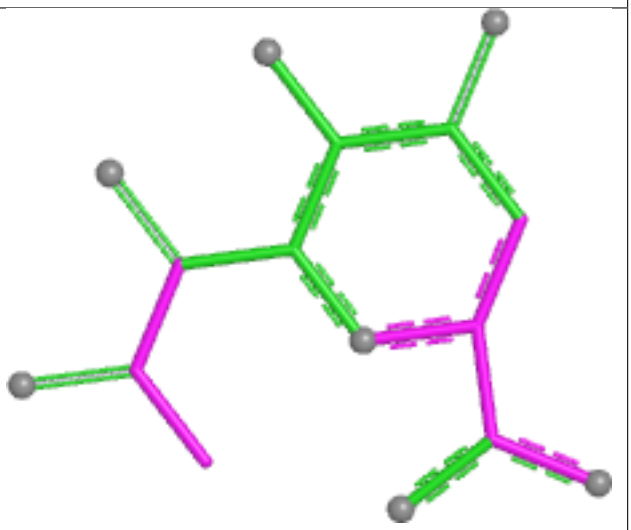


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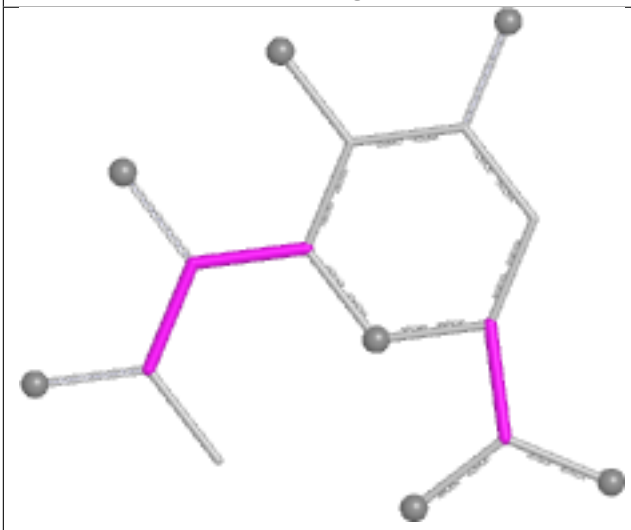
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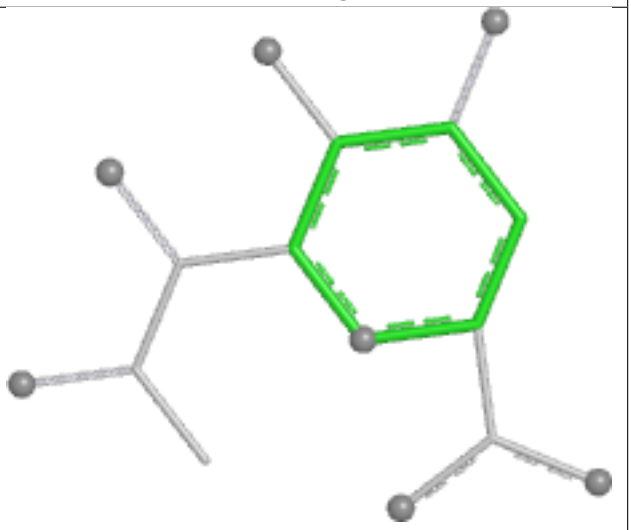
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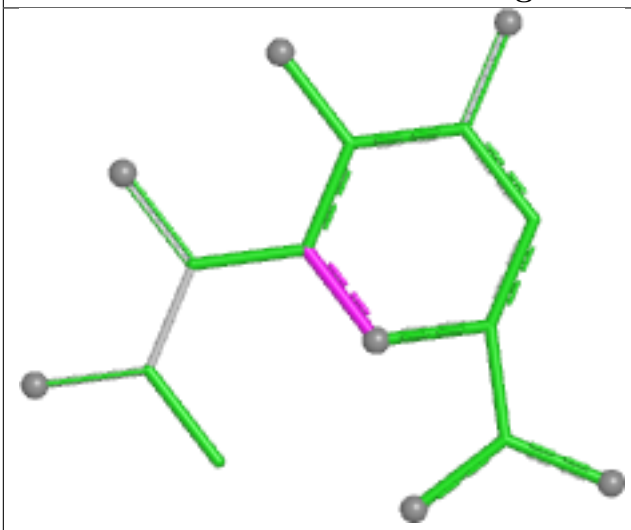


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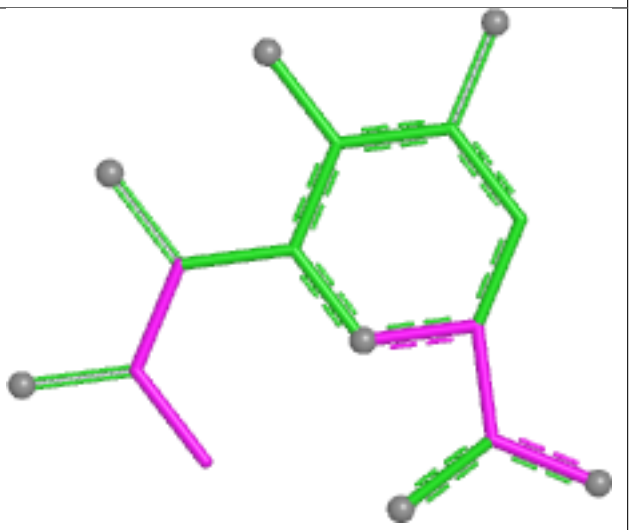


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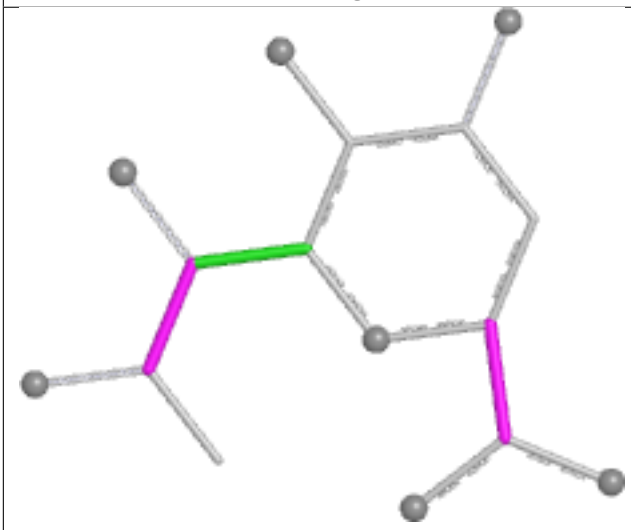
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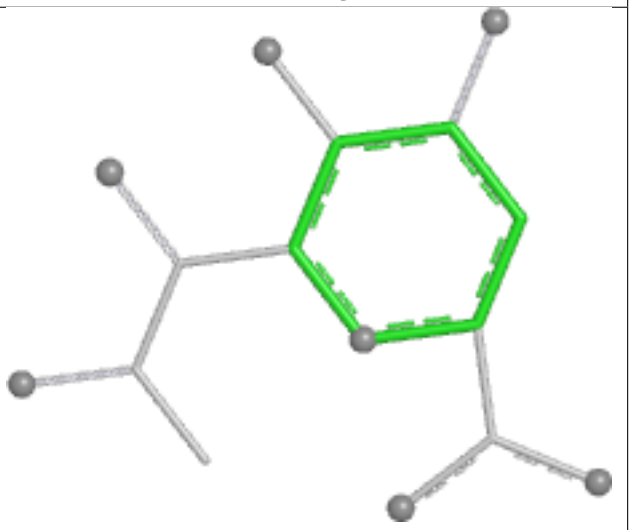
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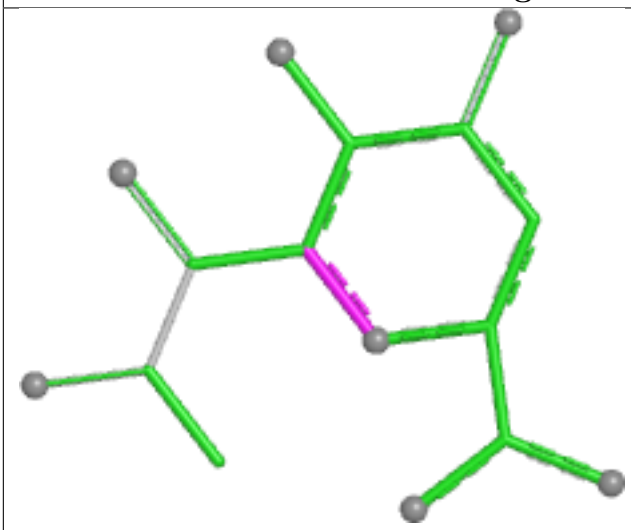


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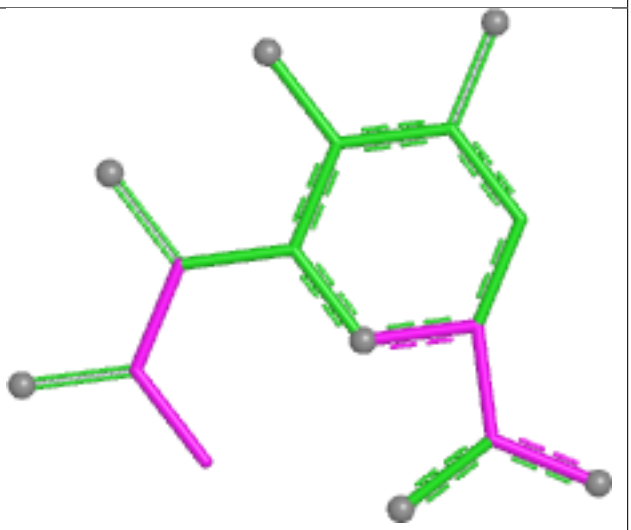


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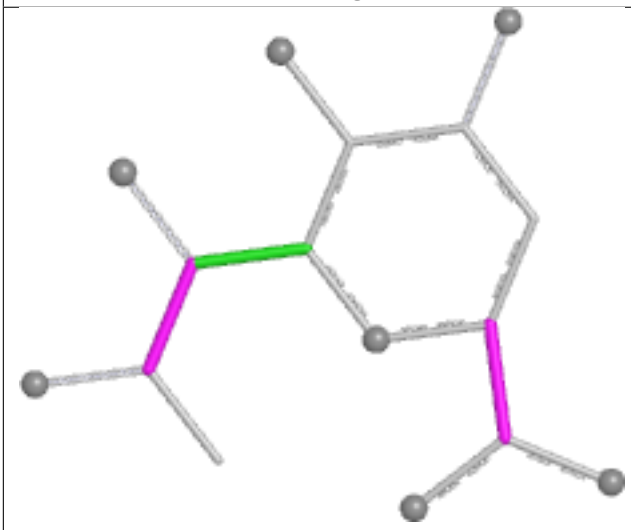
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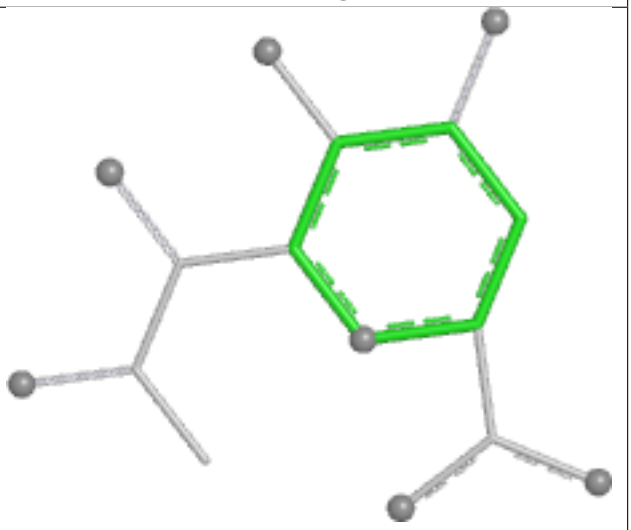
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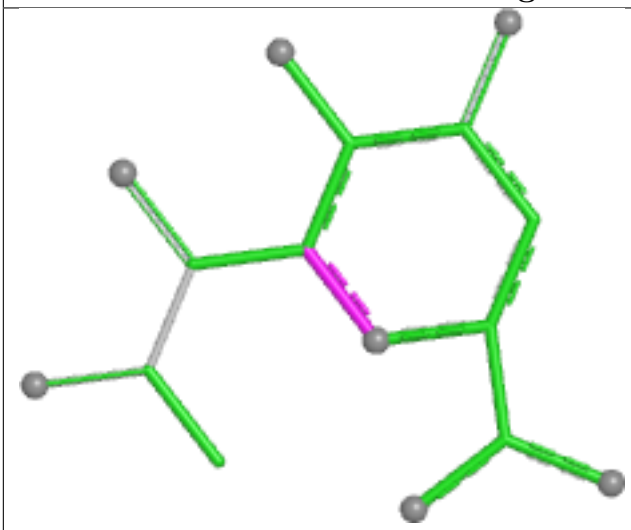


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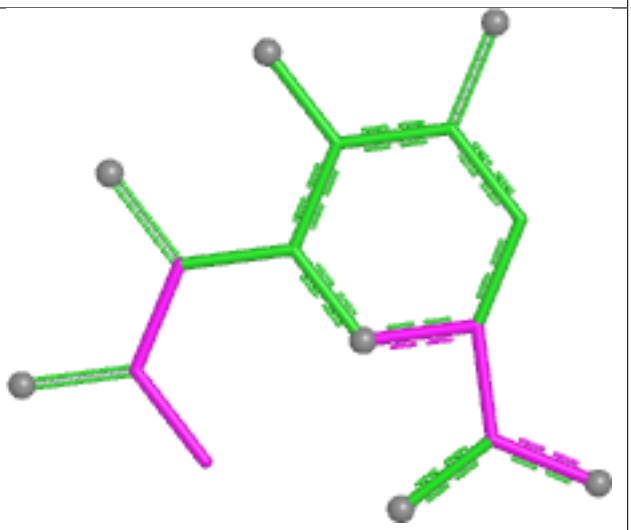


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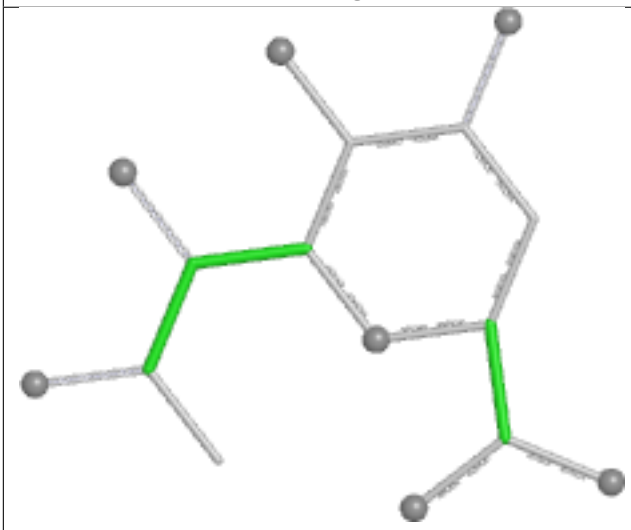
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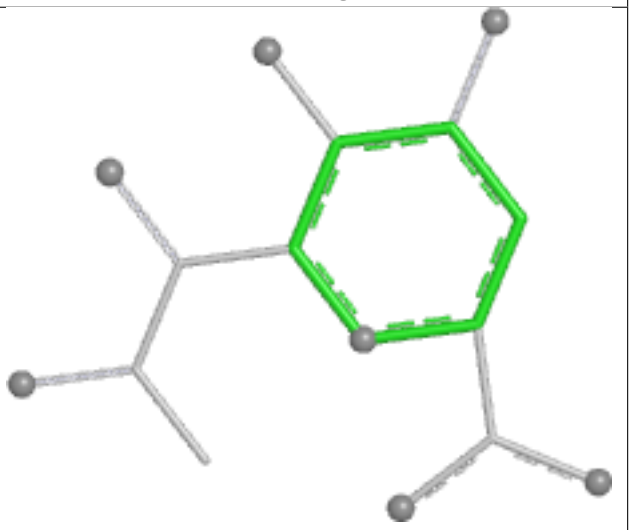
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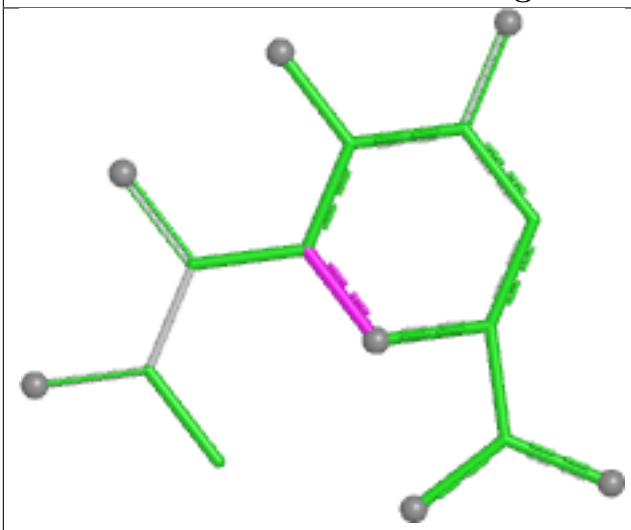


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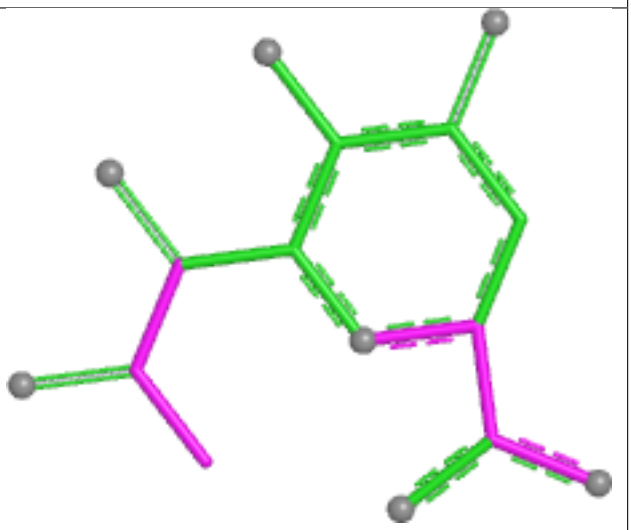


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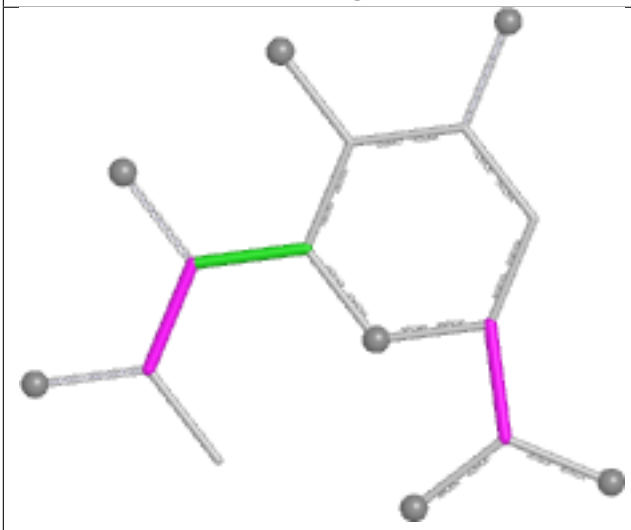
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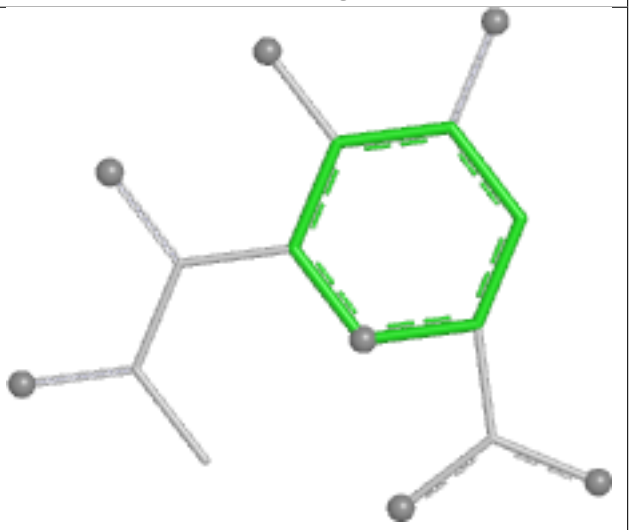
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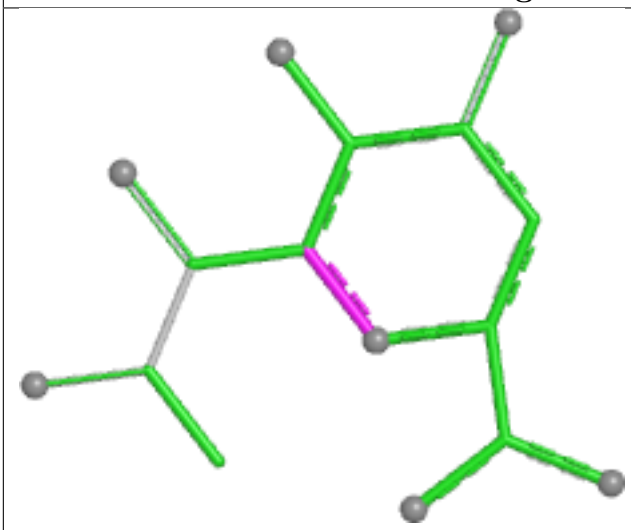


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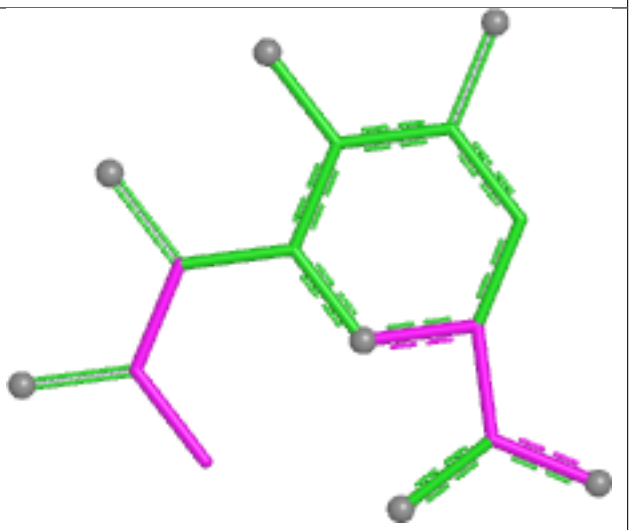


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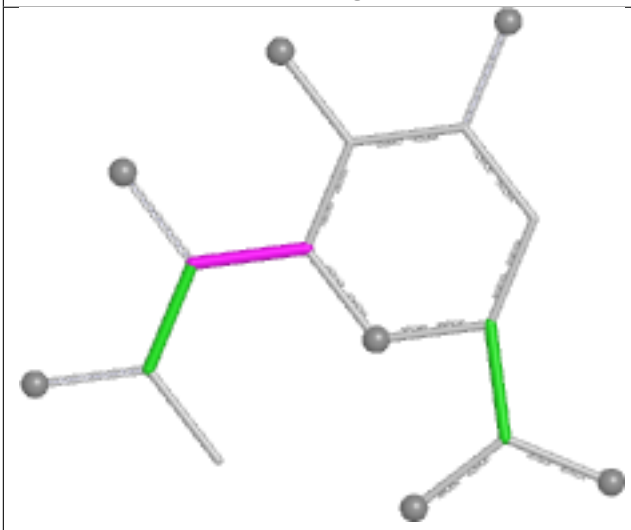
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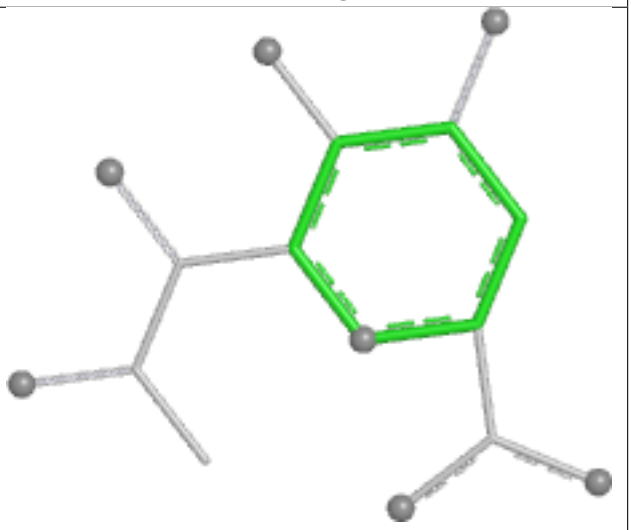
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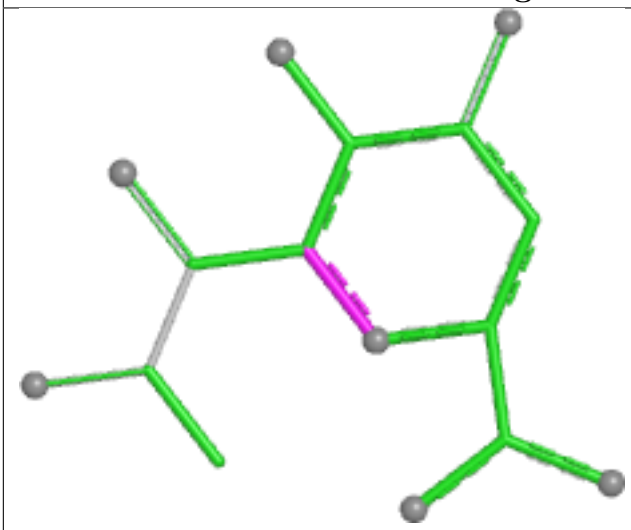


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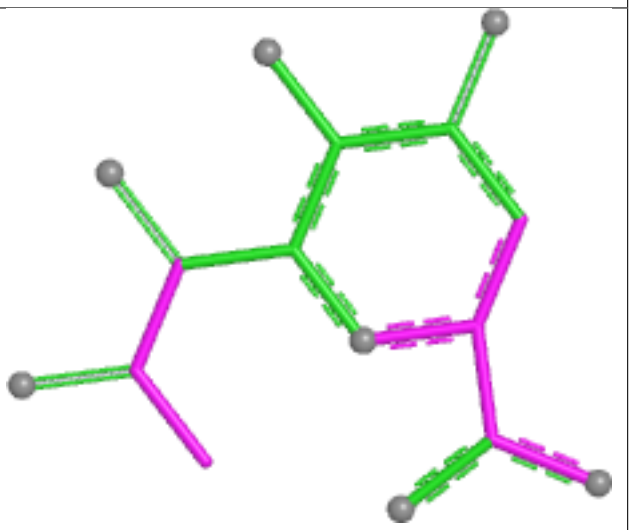


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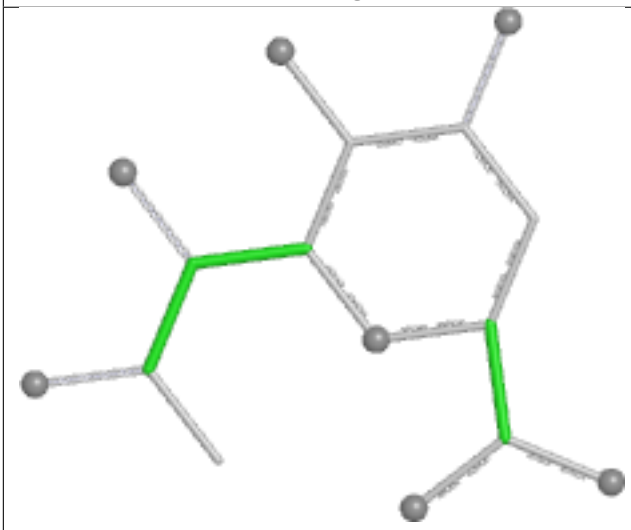
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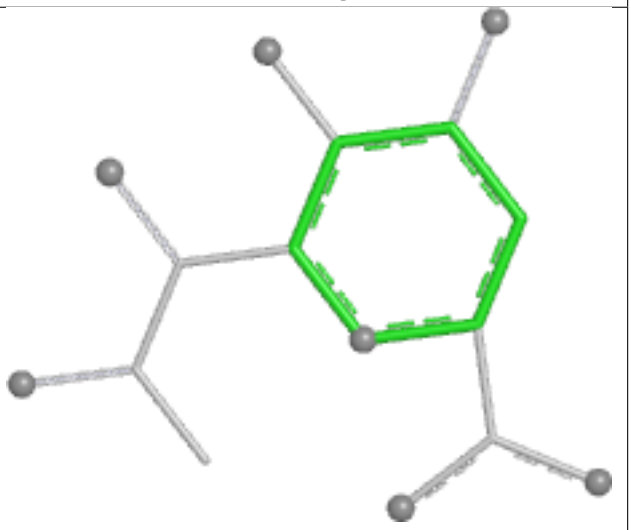
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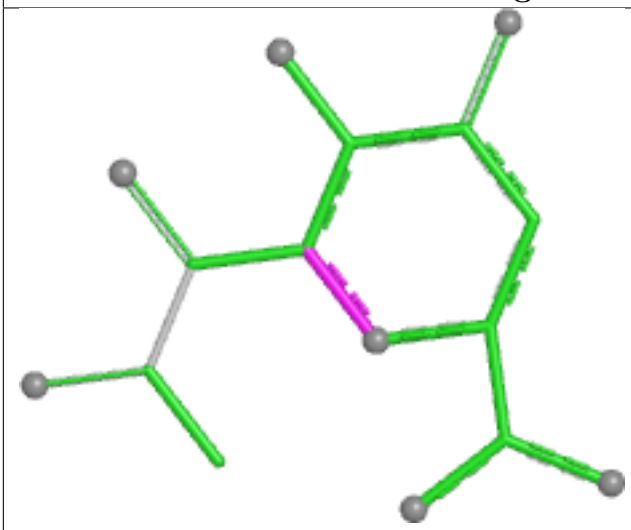


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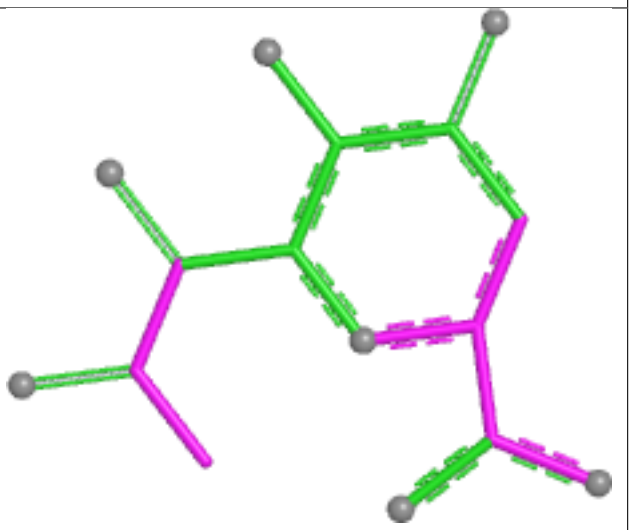


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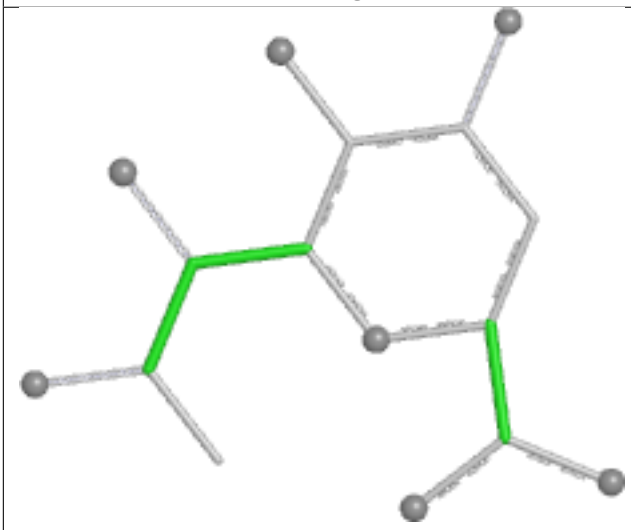
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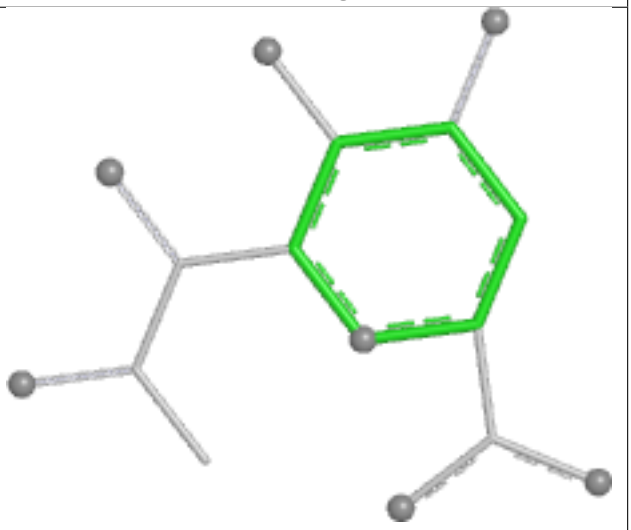
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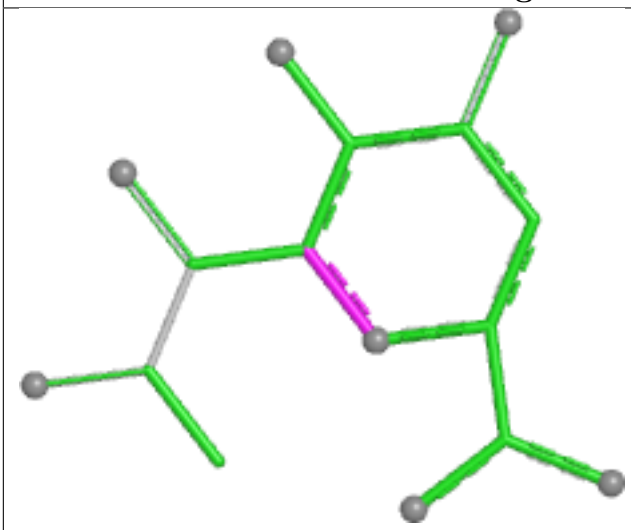


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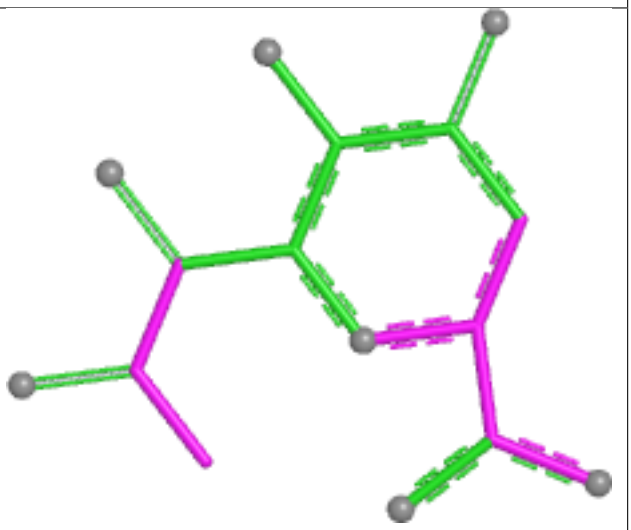


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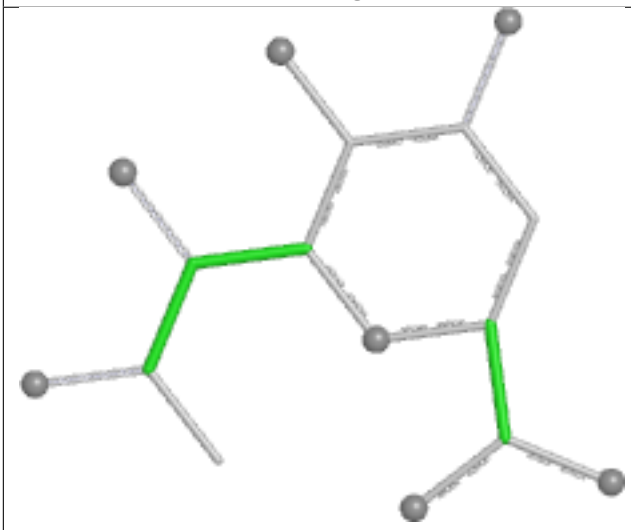
Ligand P8E AB 602



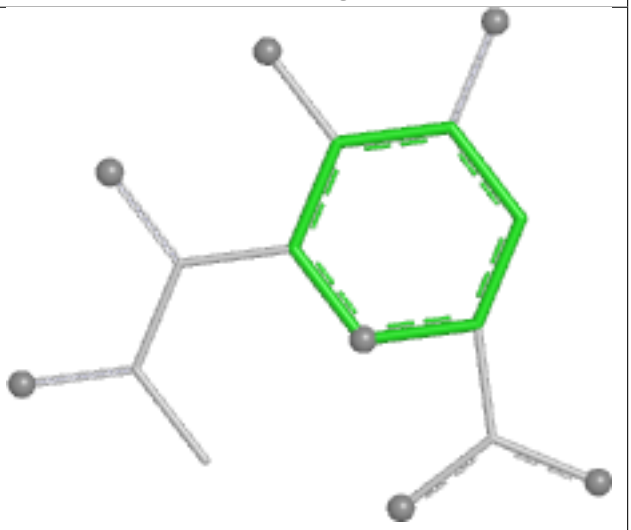
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Bond angles

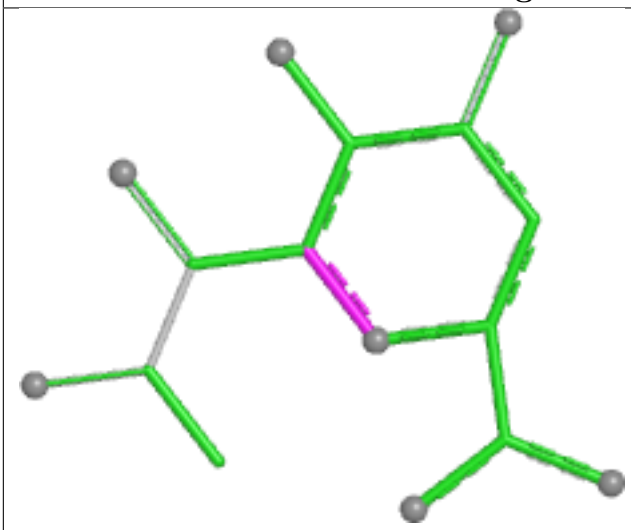


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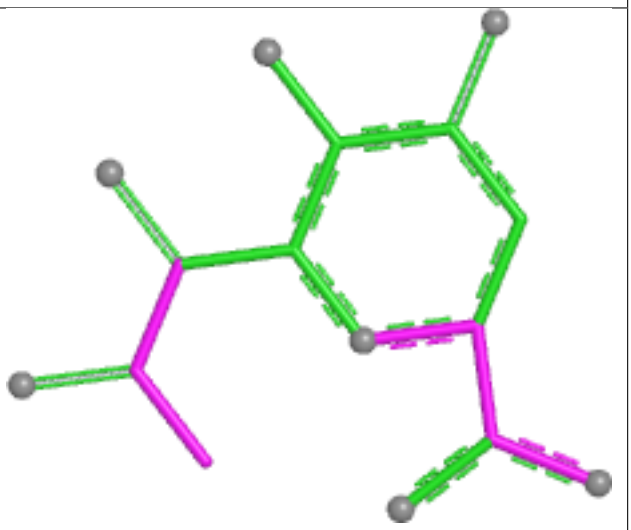


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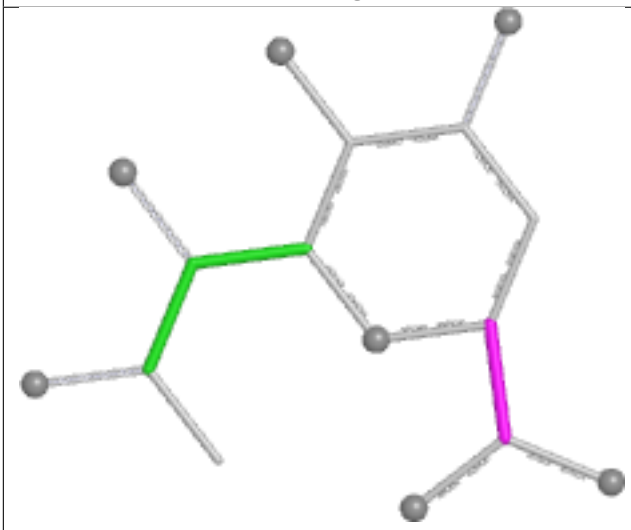
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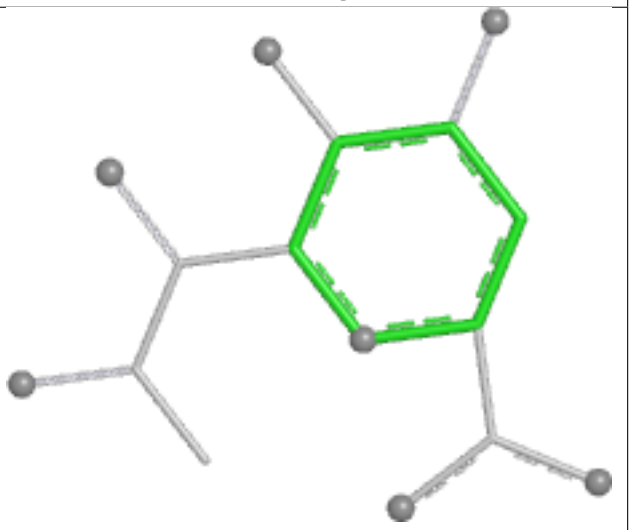
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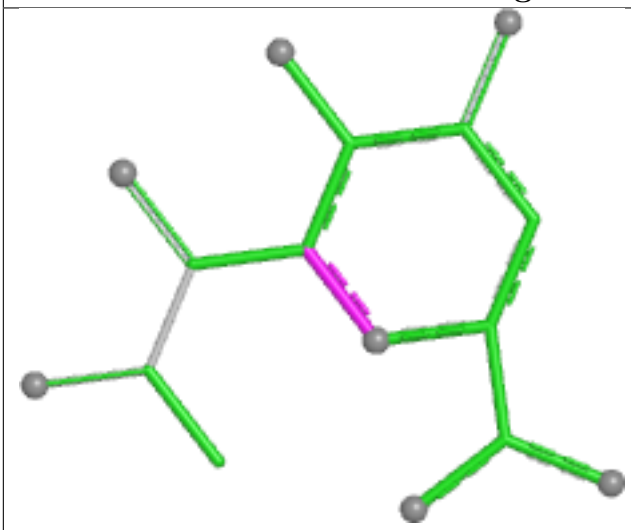


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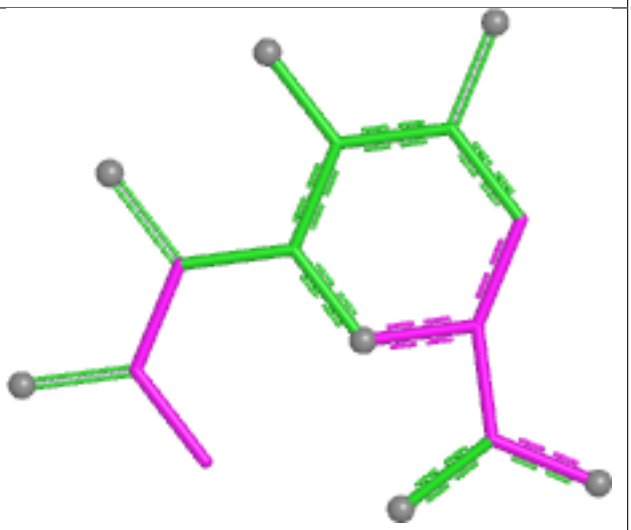


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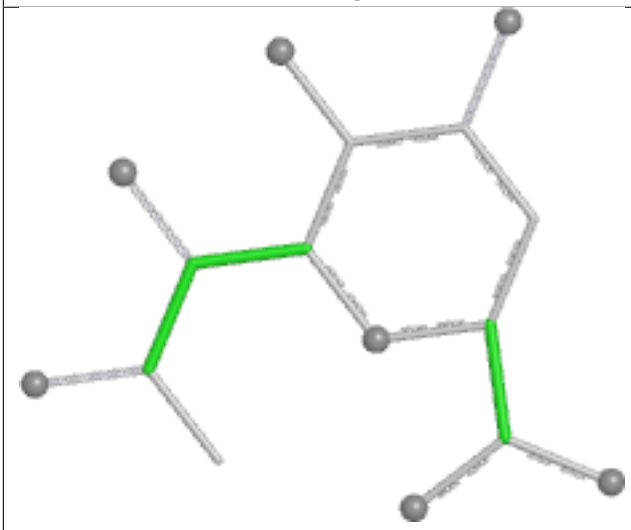
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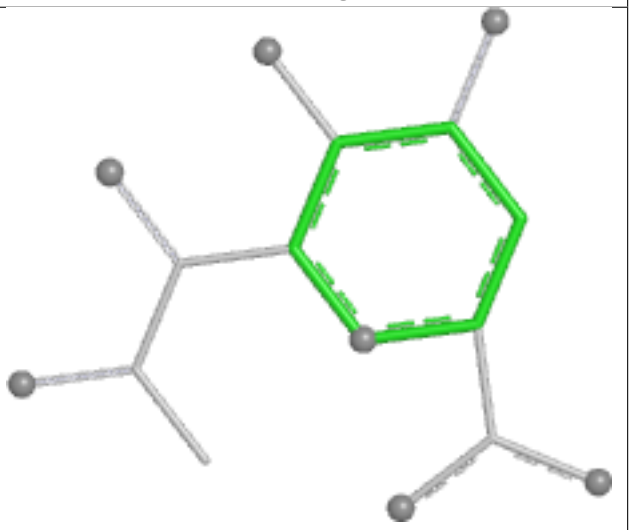
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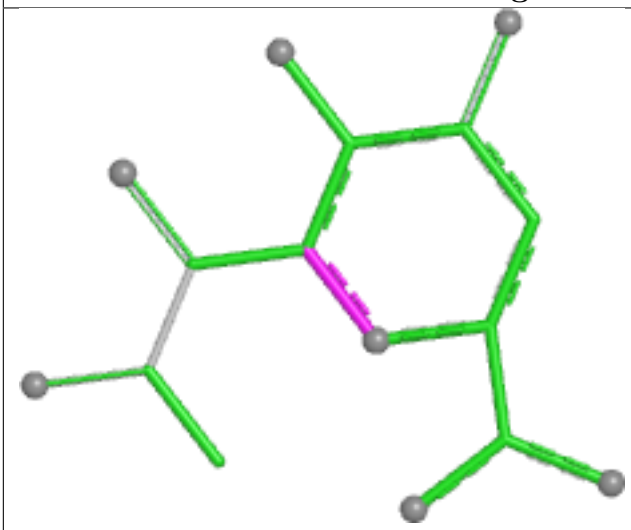


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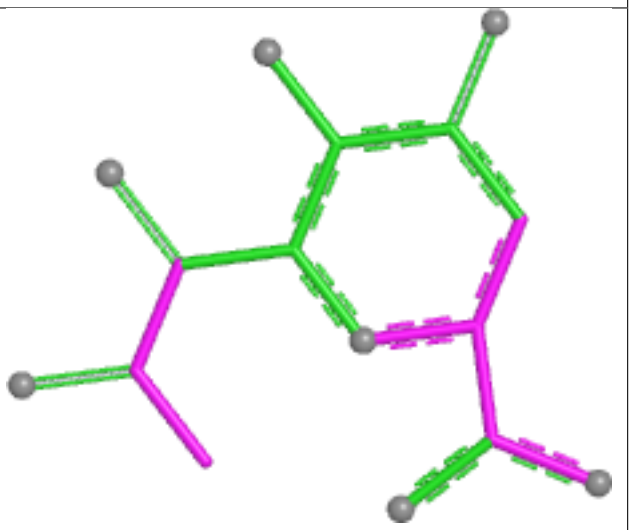


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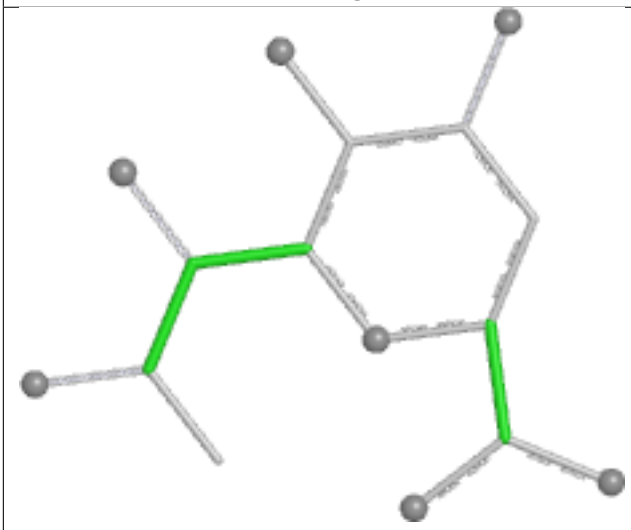
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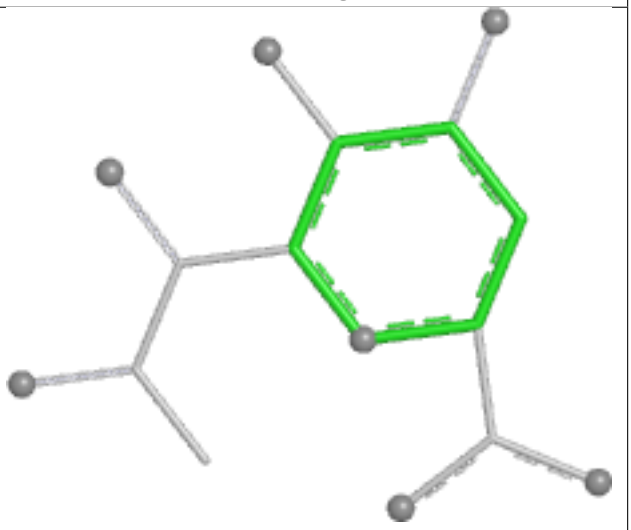
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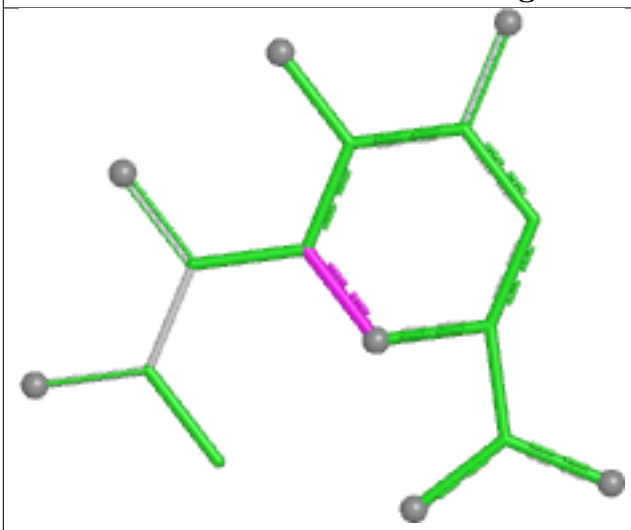


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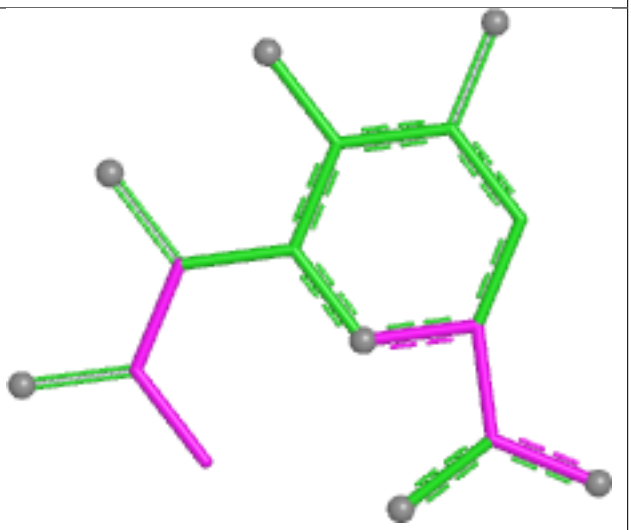


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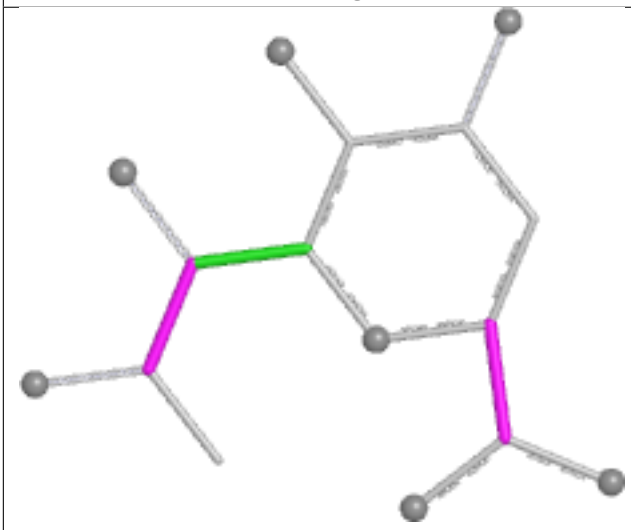
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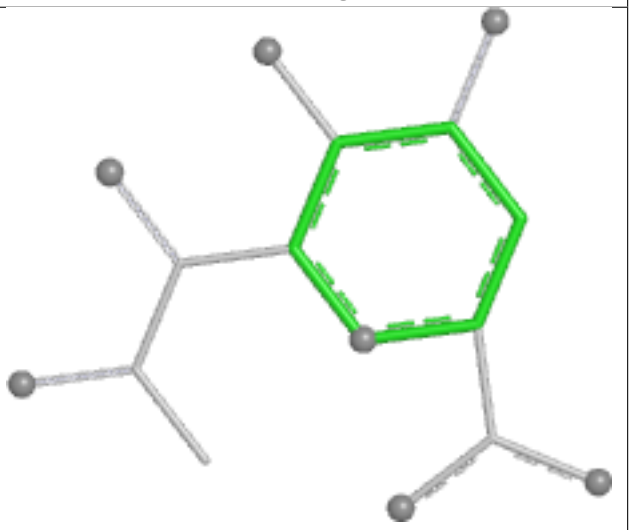
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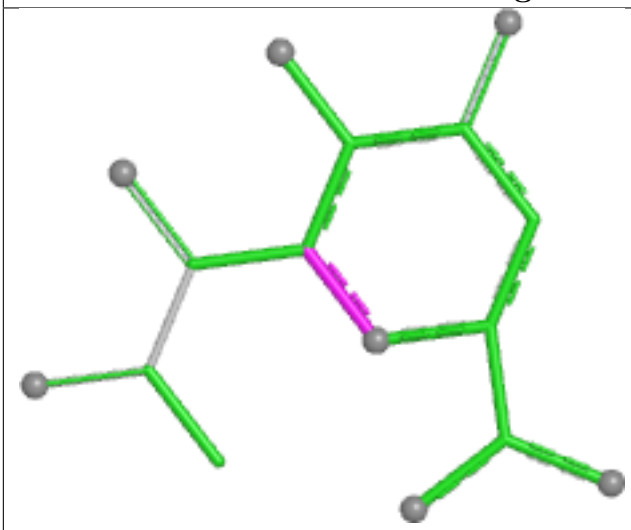


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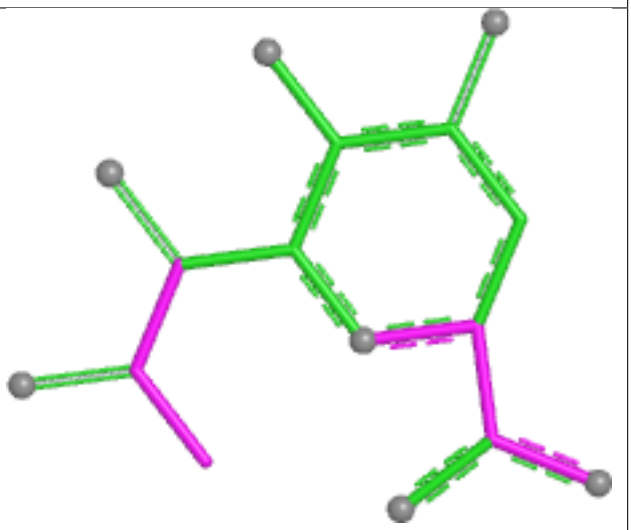


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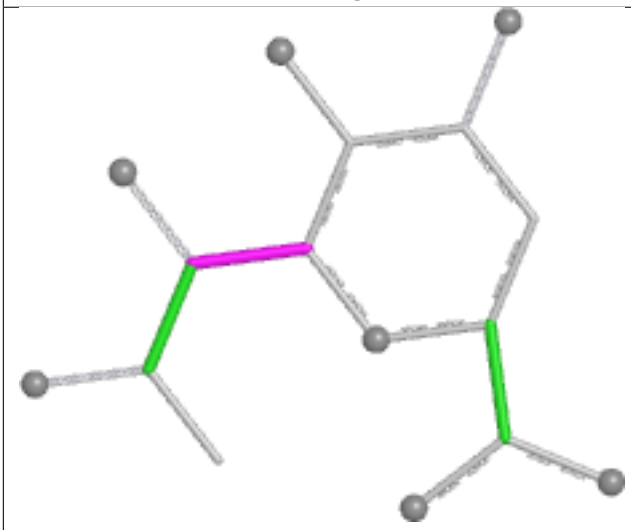
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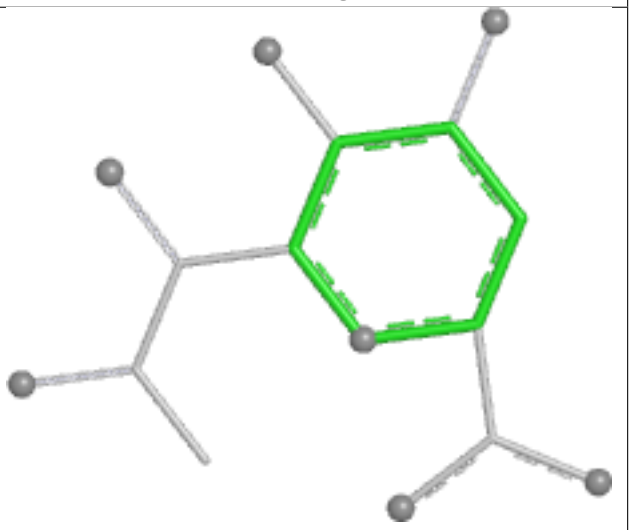
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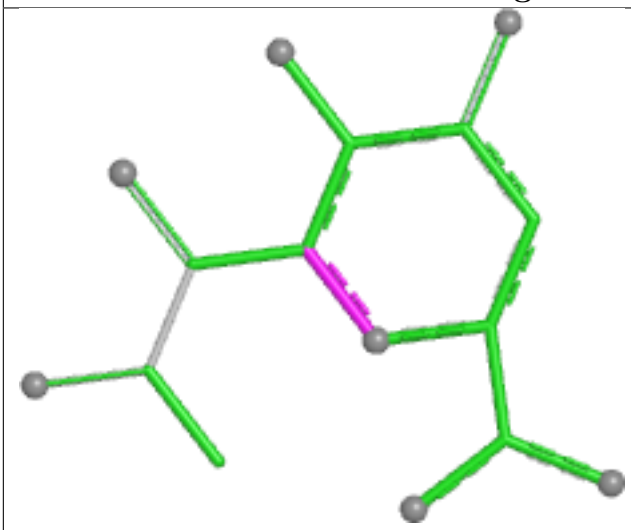


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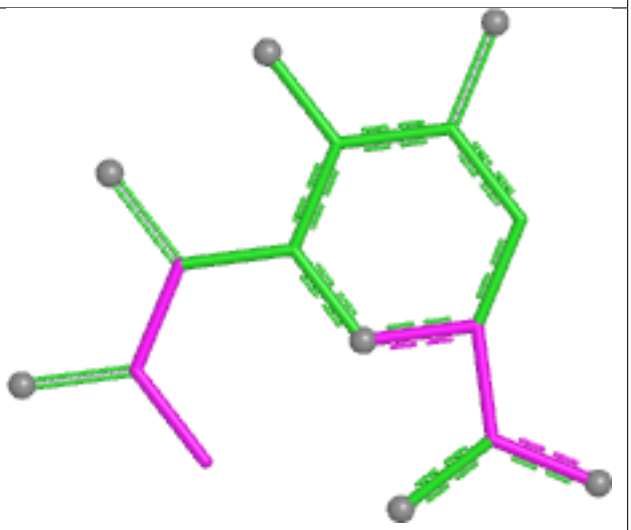


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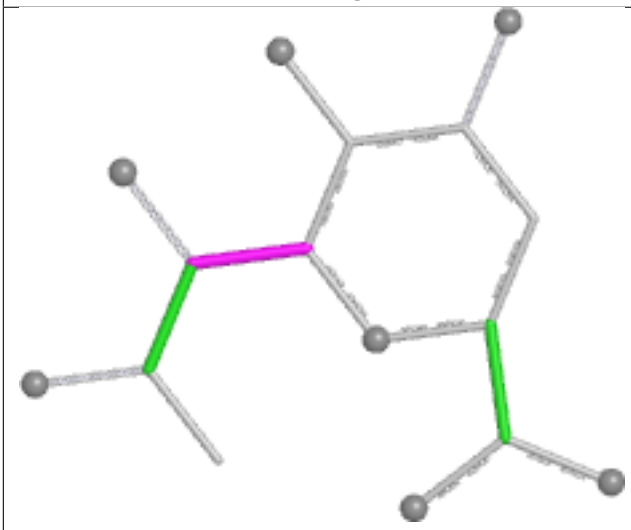
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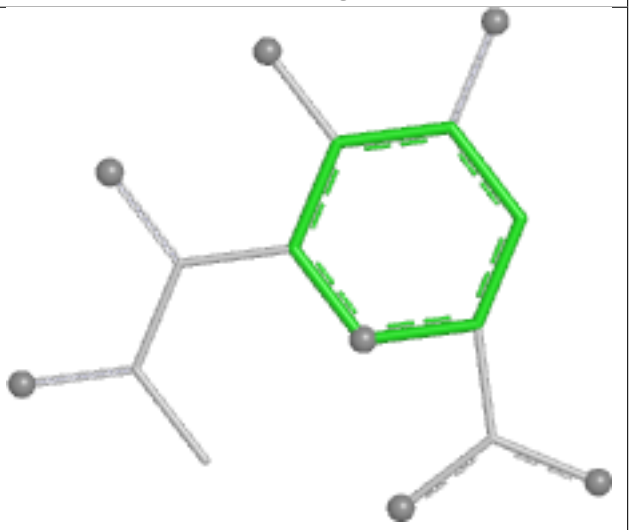
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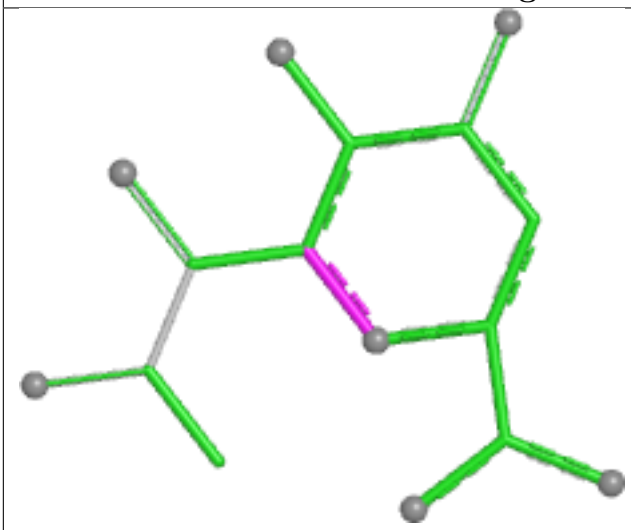


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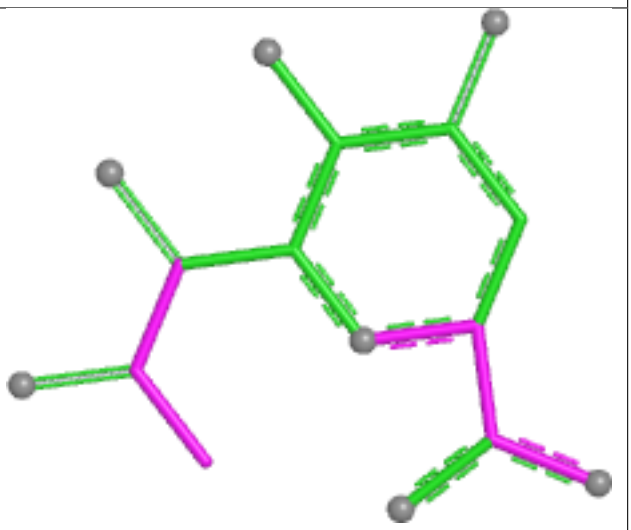


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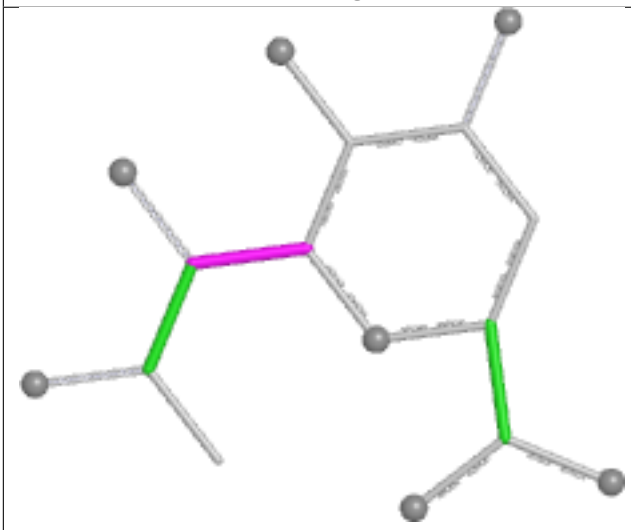
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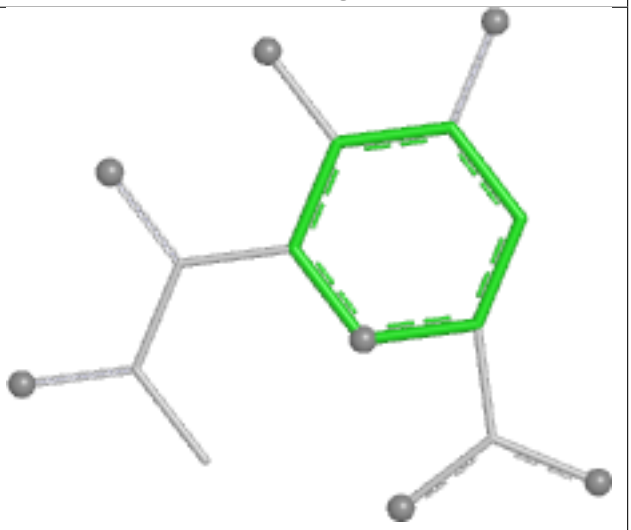
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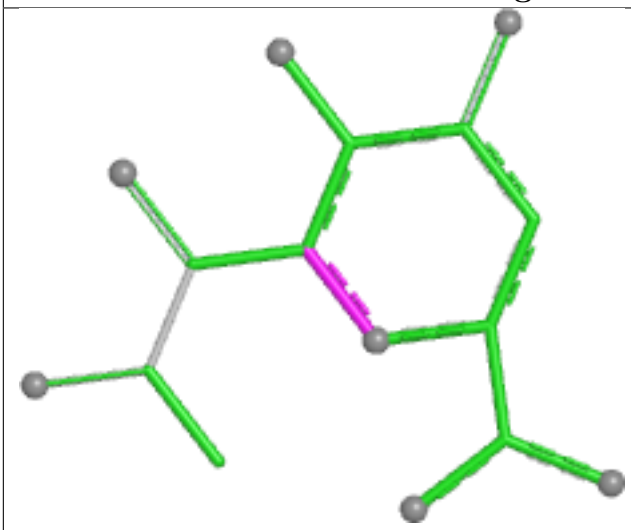


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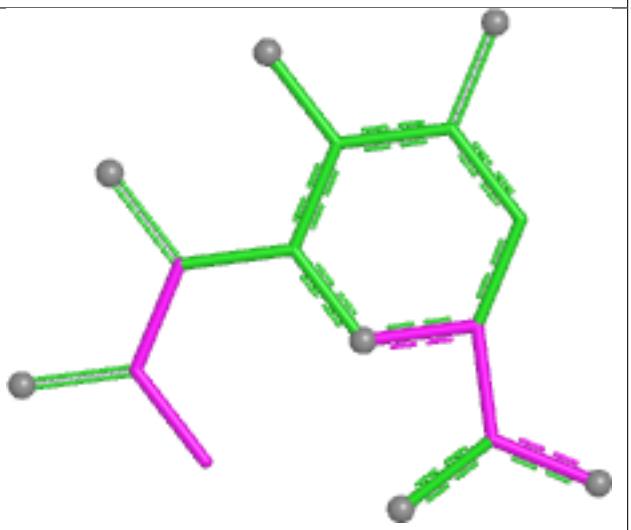


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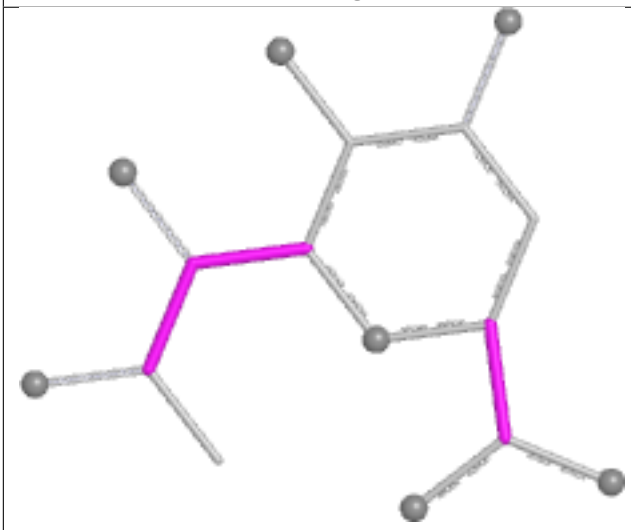
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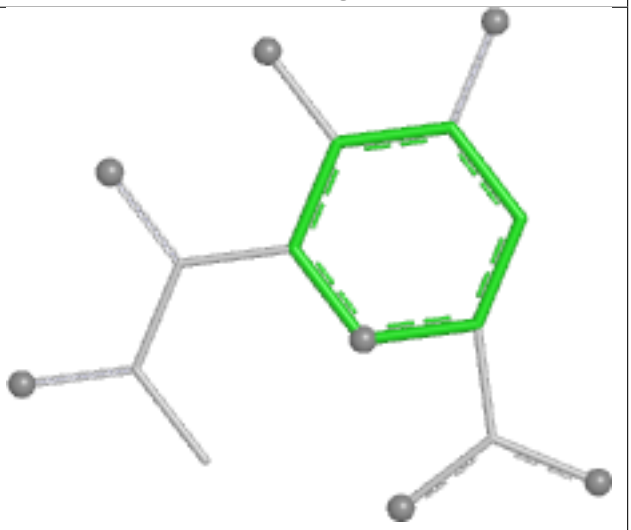
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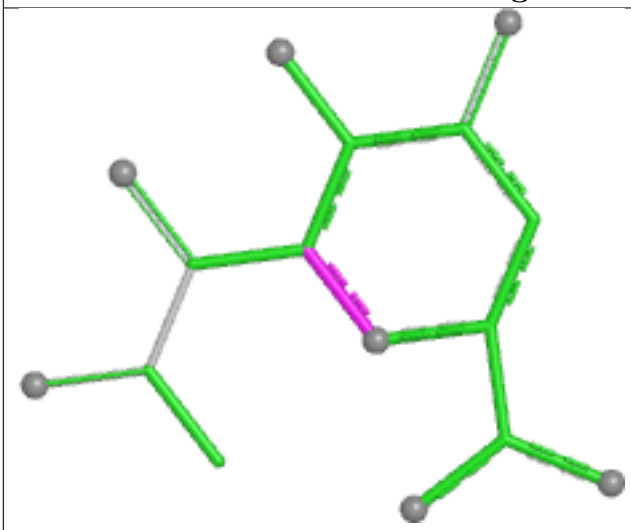


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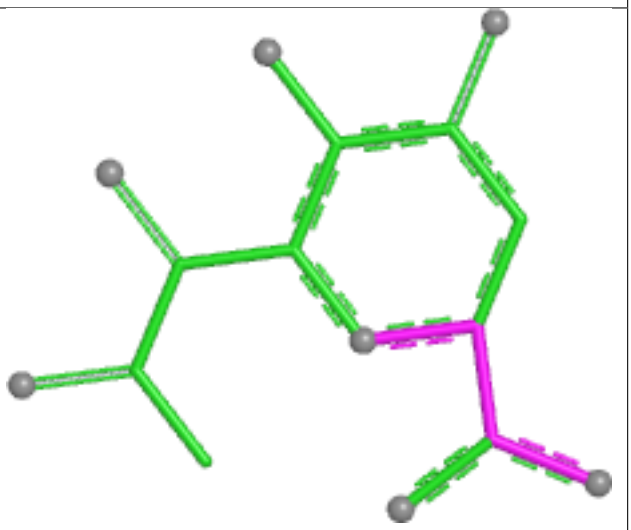


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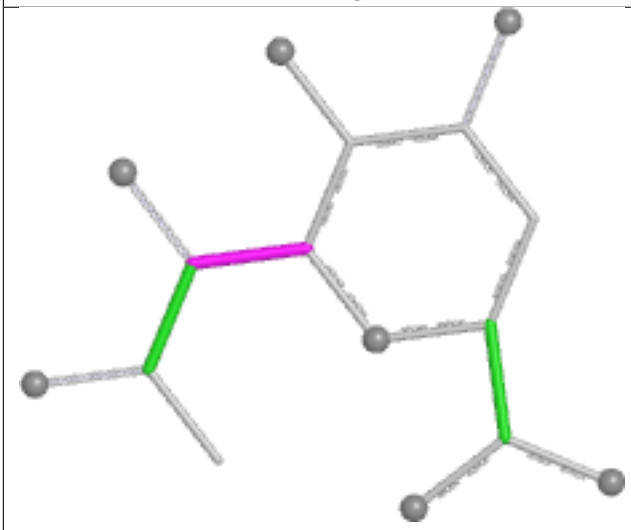
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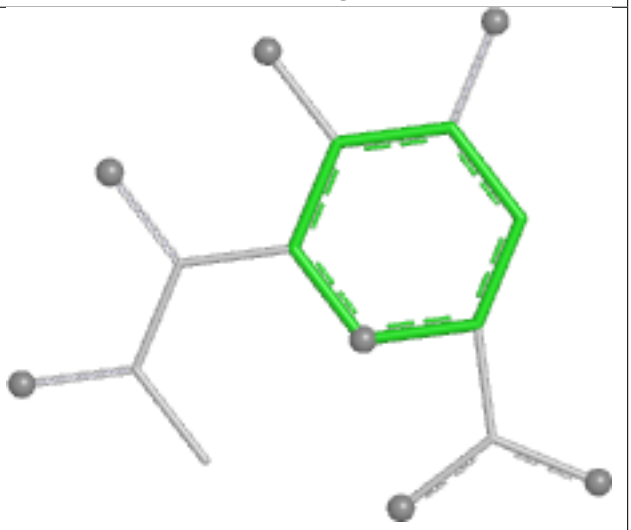
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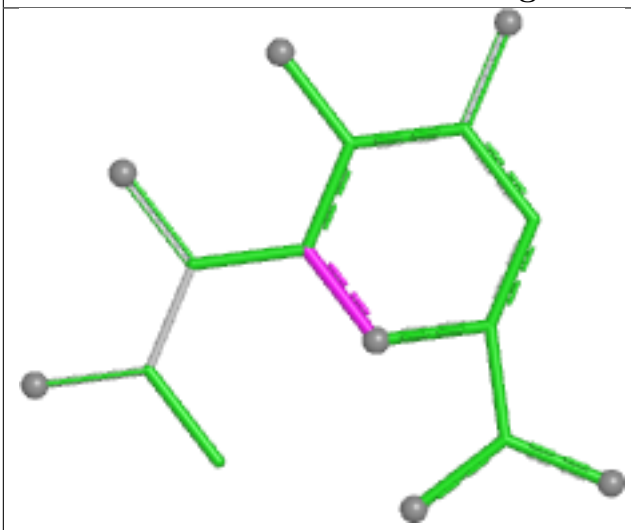


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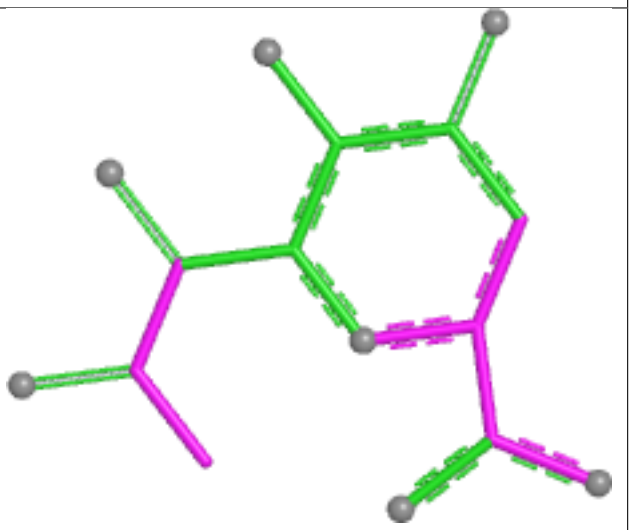


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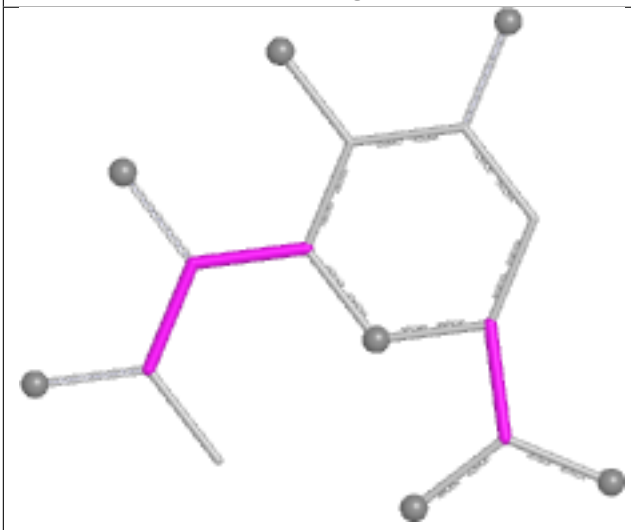
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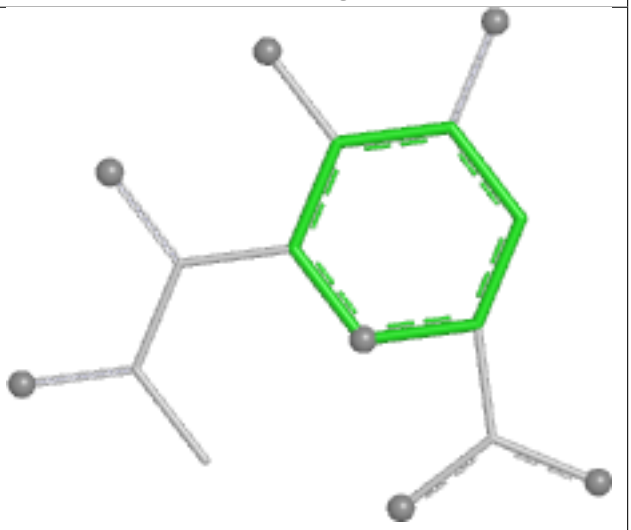
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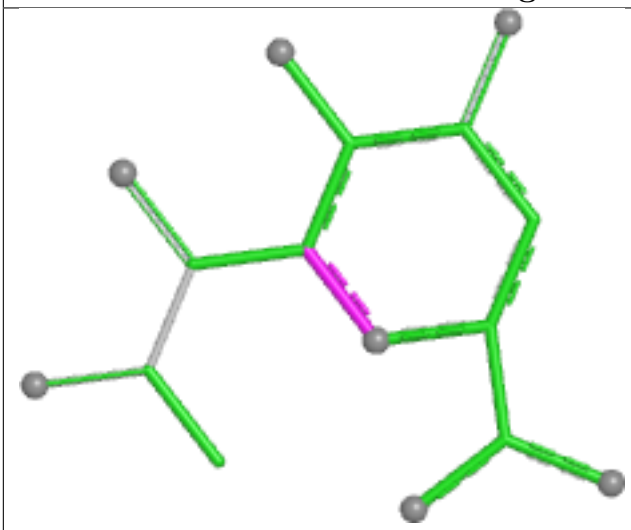


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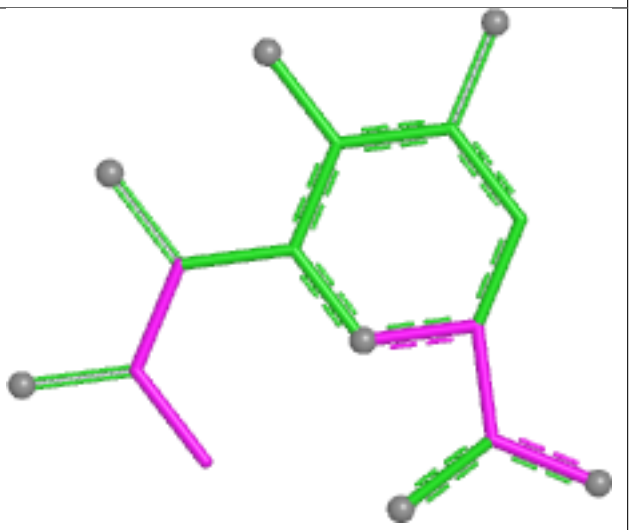


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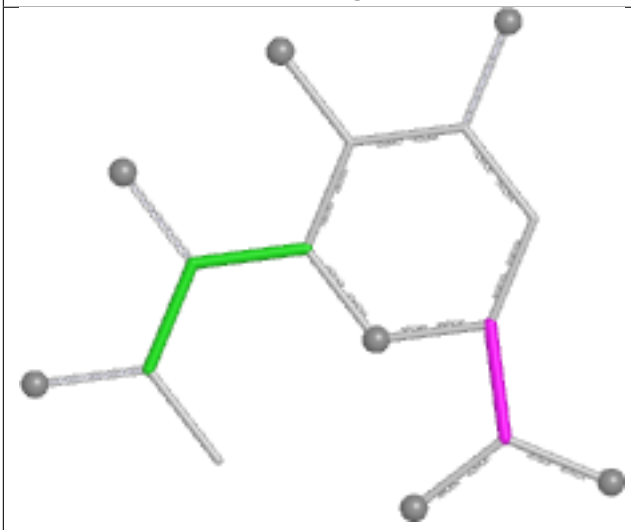
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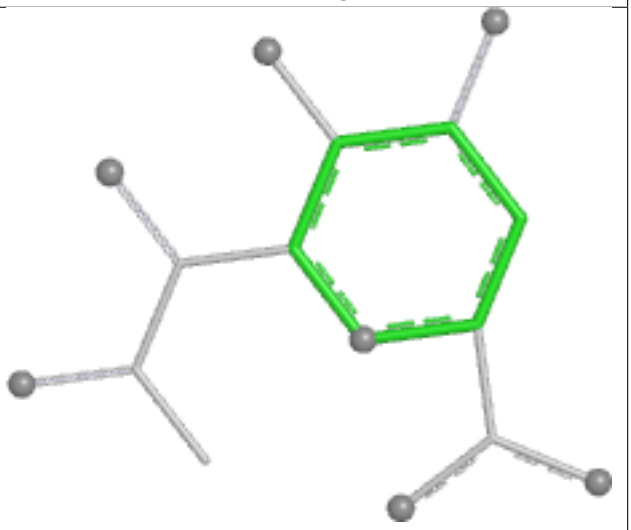
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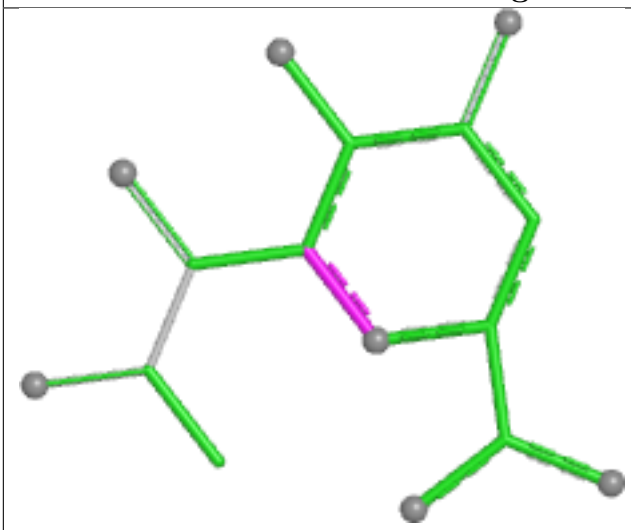


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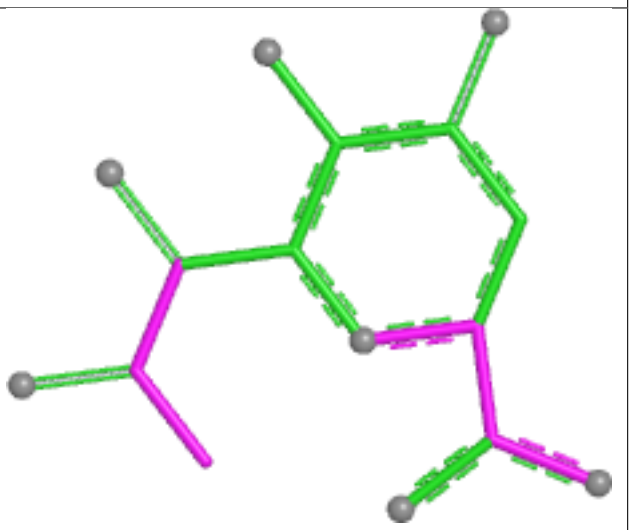


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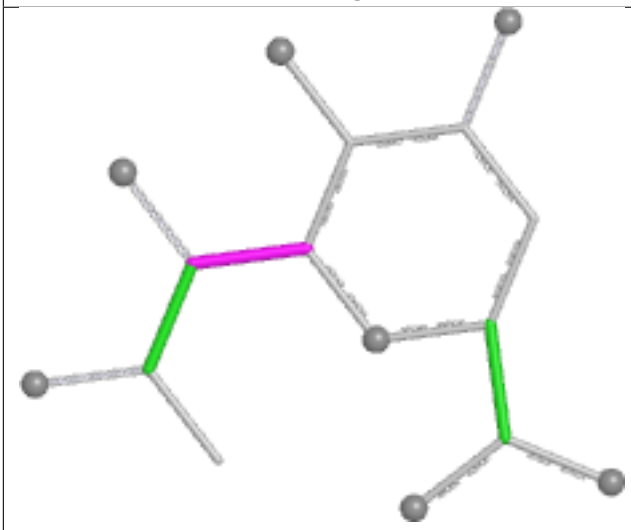
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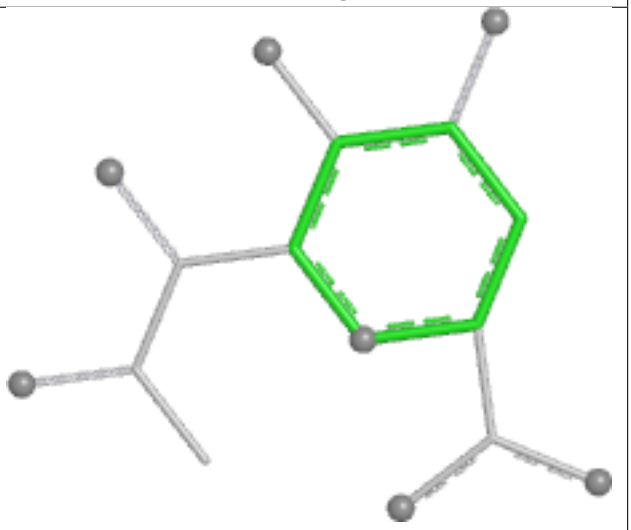
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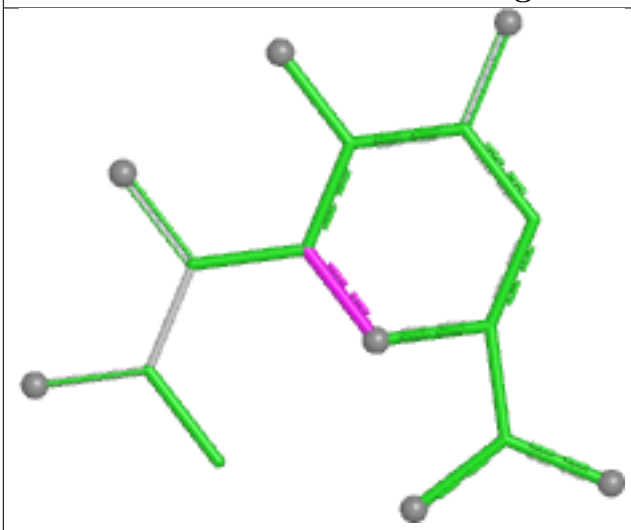


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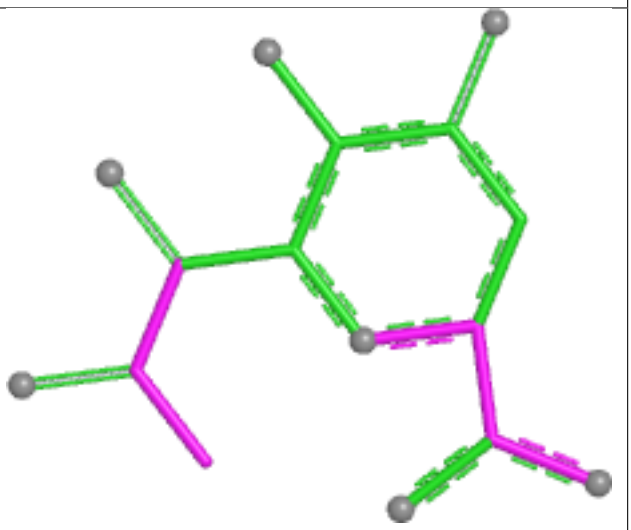


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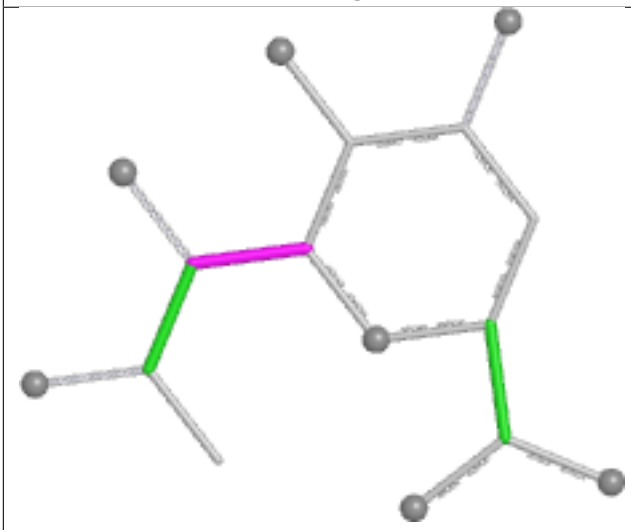
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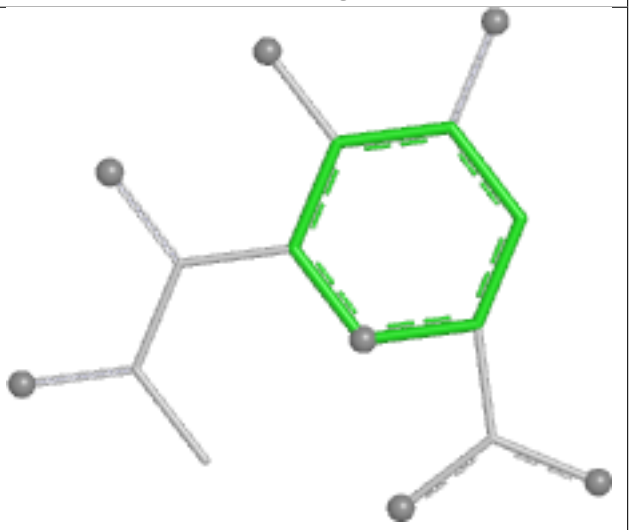
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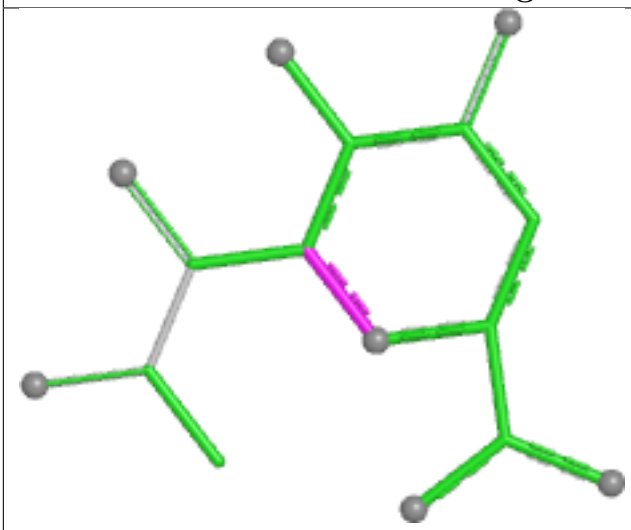


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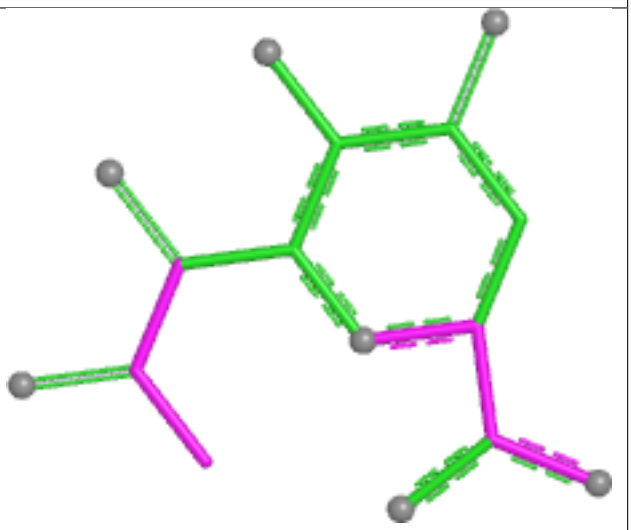


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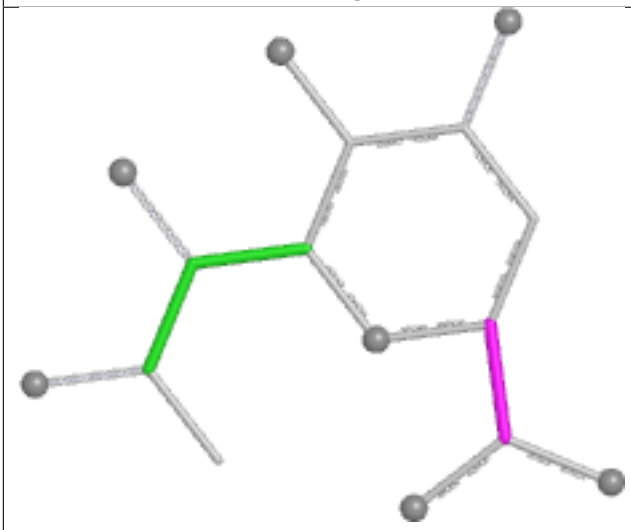
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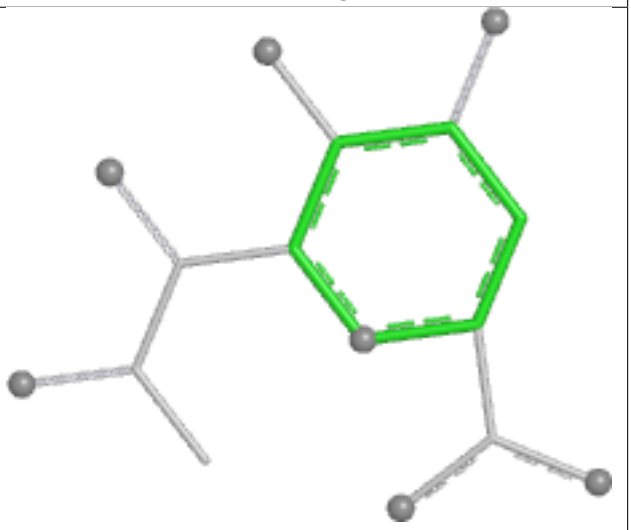
Bond lengths



Bond angles

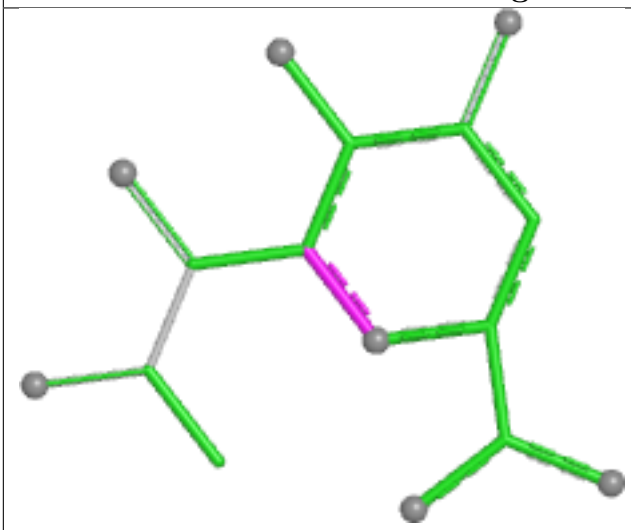


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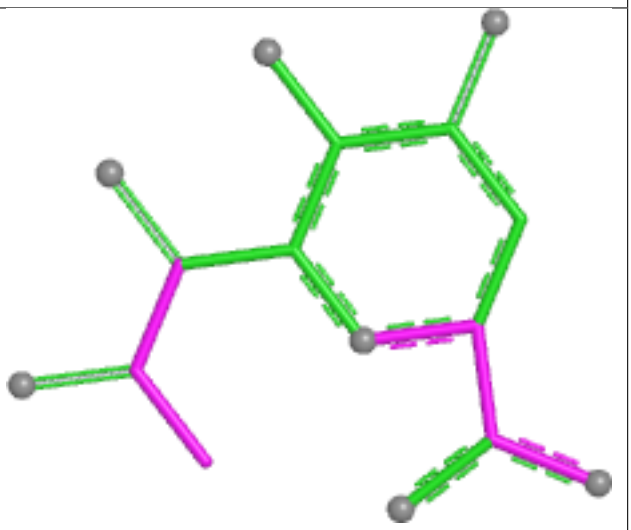


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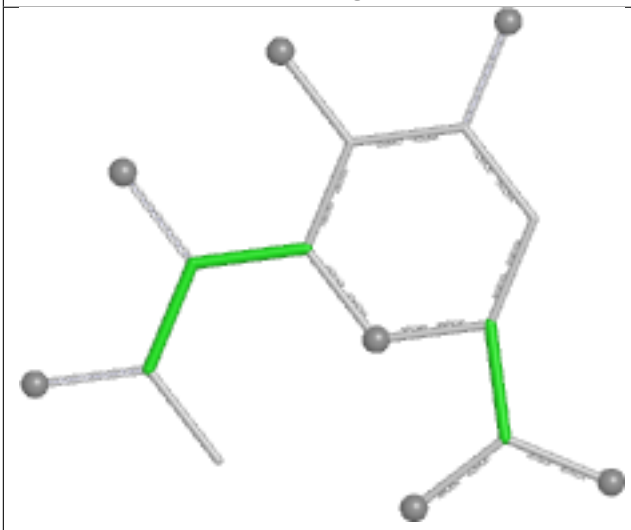
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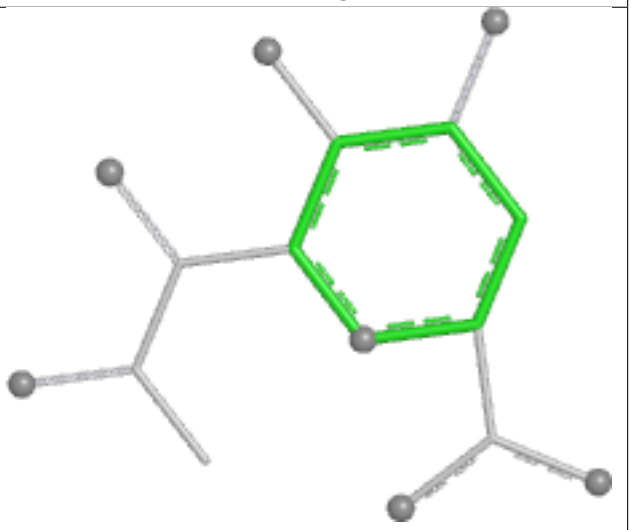
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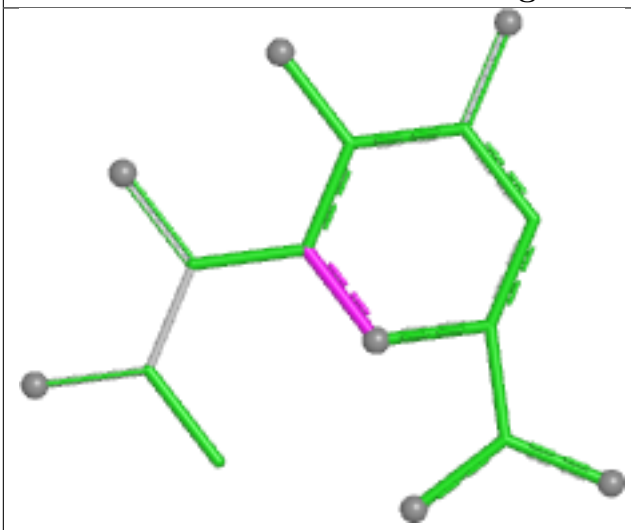


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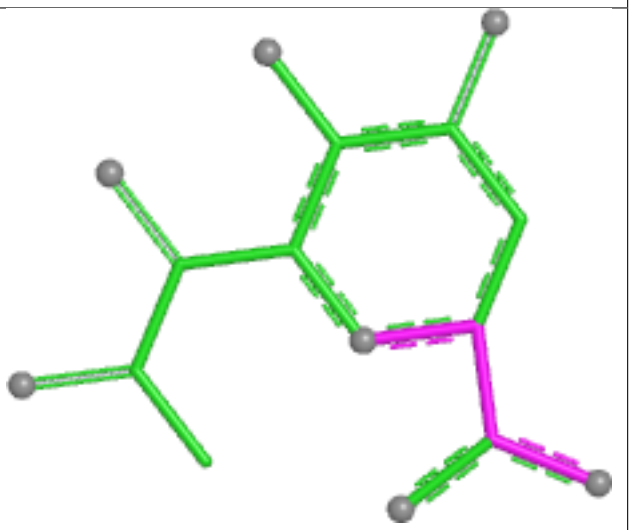


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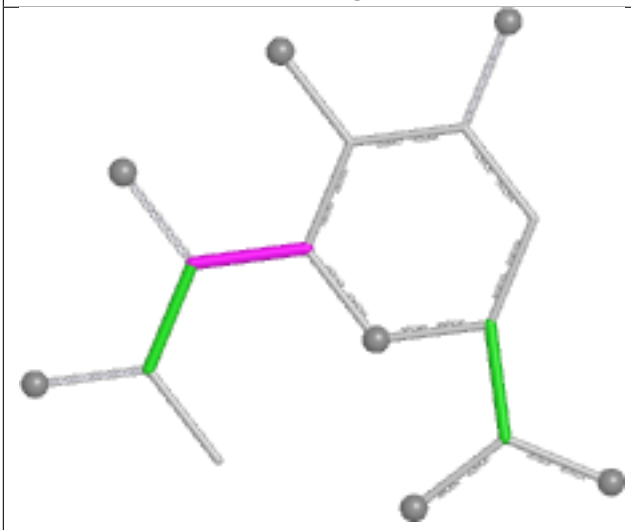
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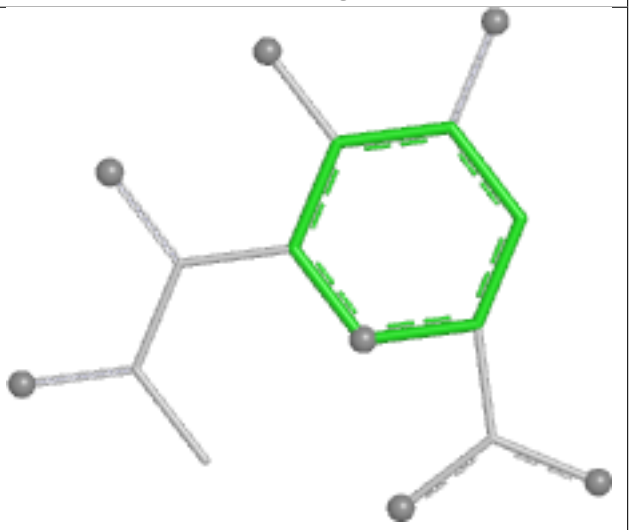
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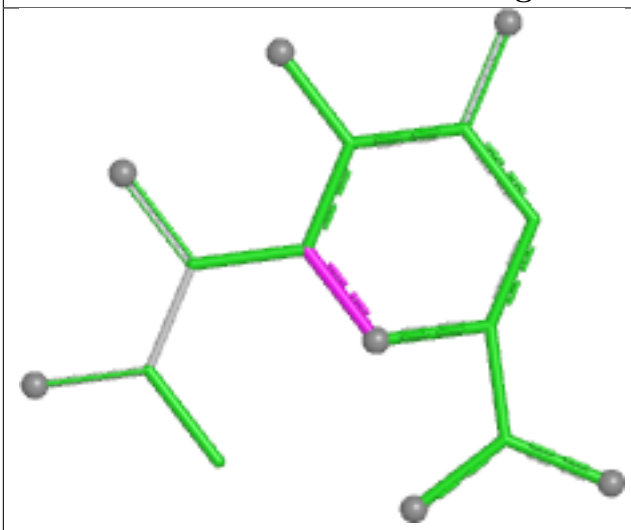


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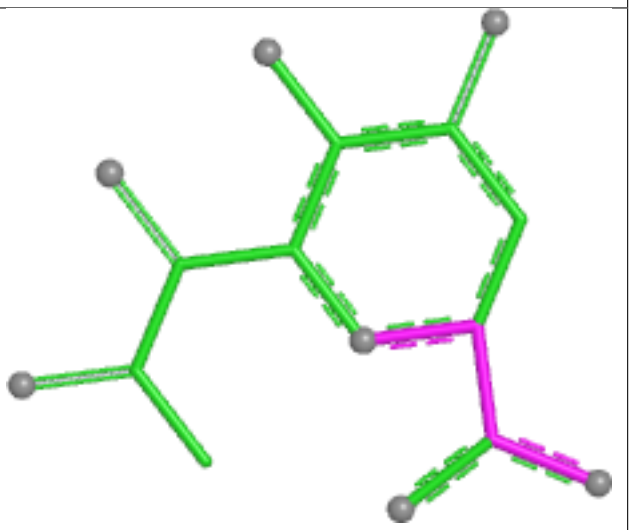


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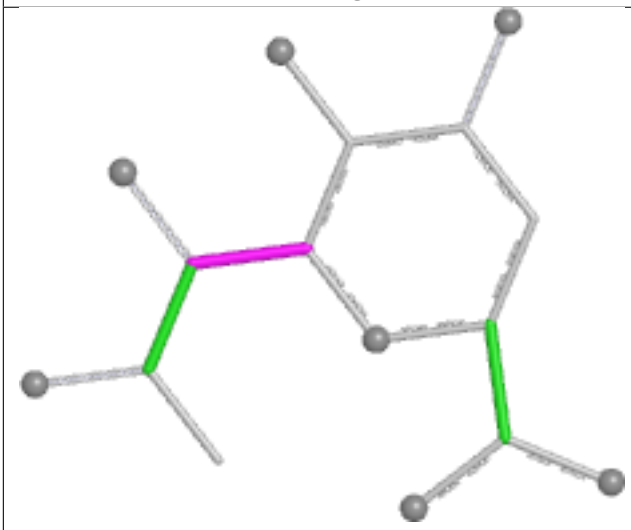
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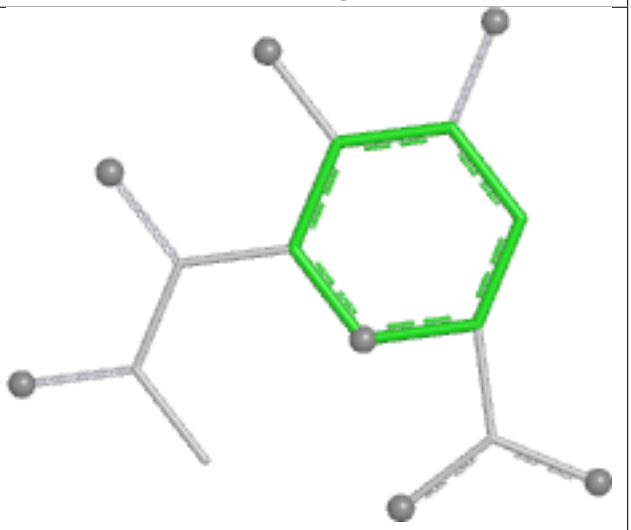
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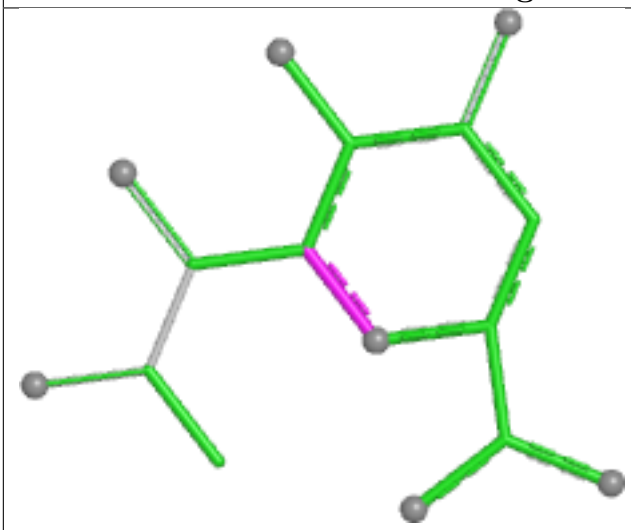


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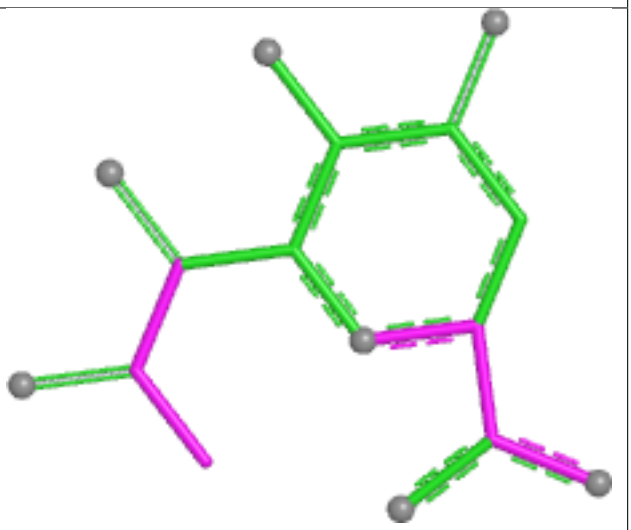


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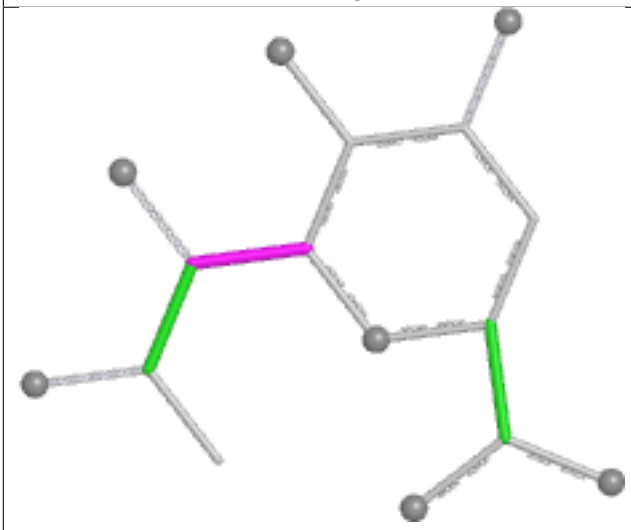
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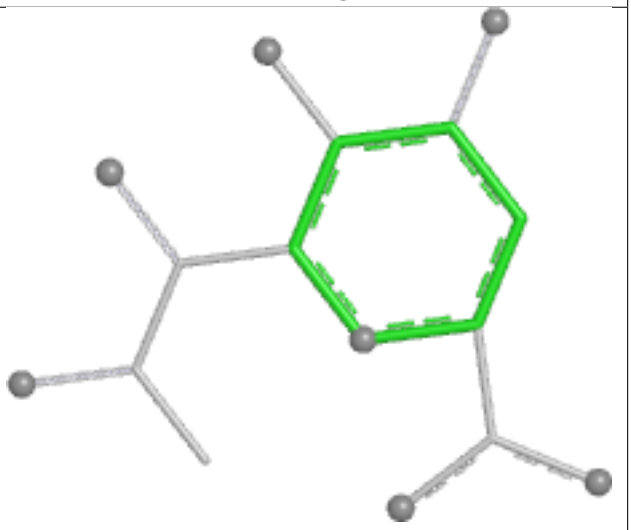
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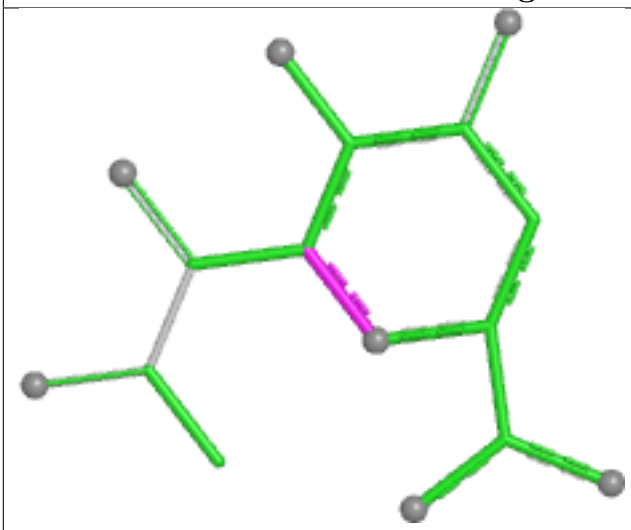


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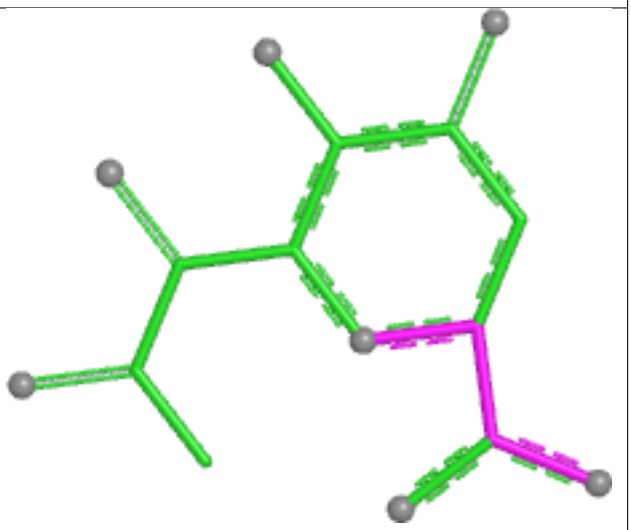


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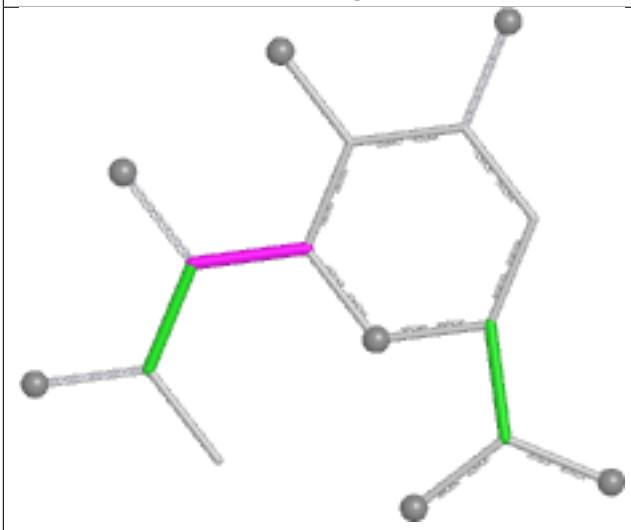
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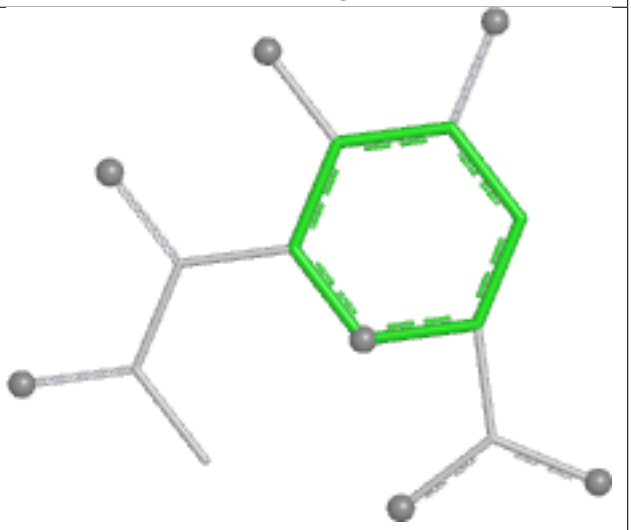
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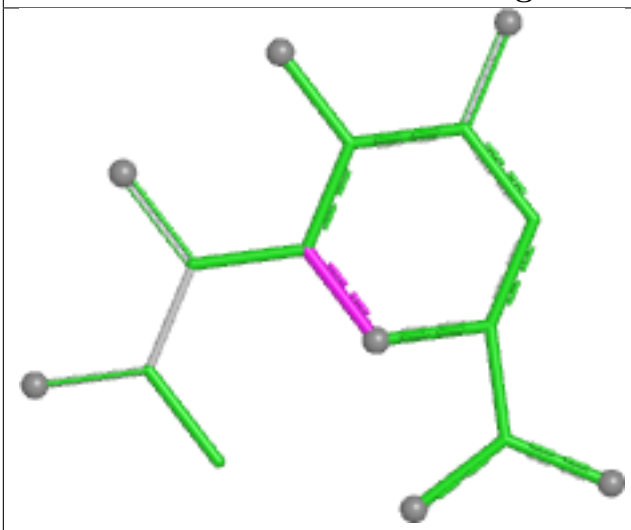


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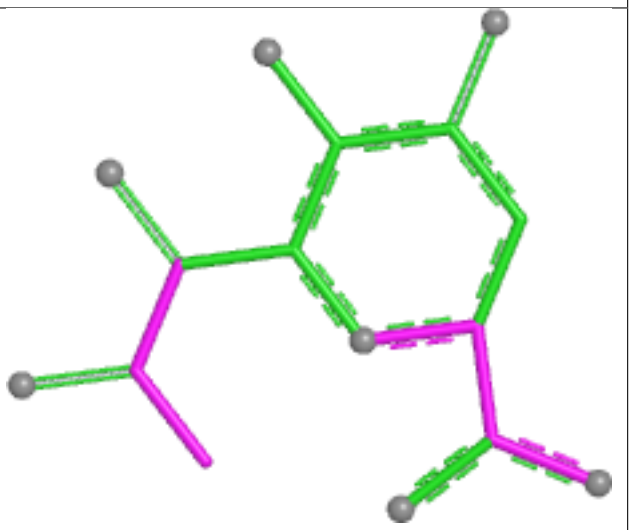


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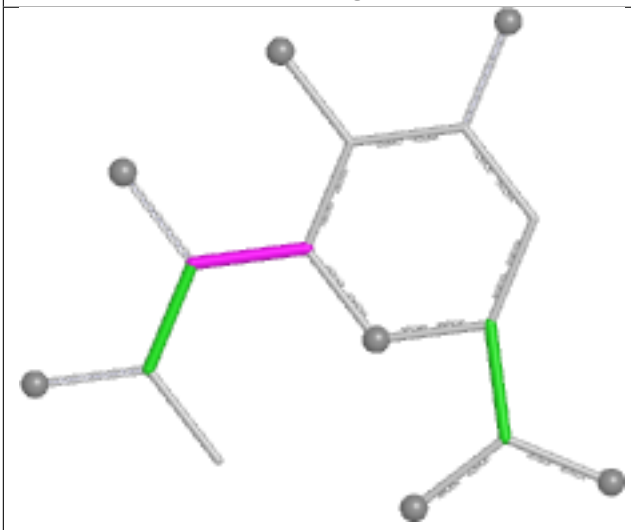
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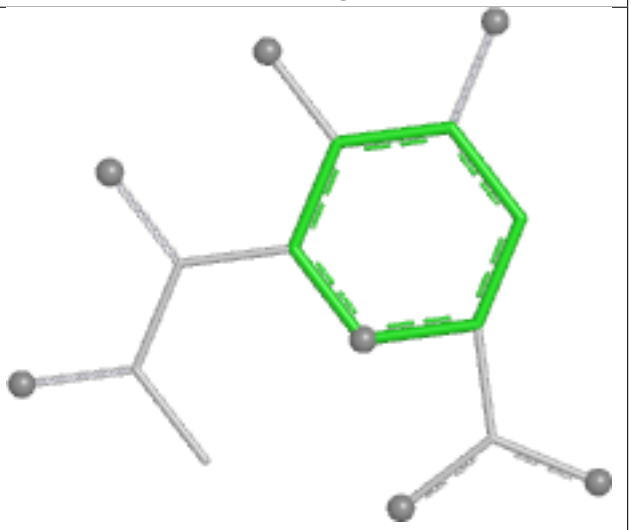
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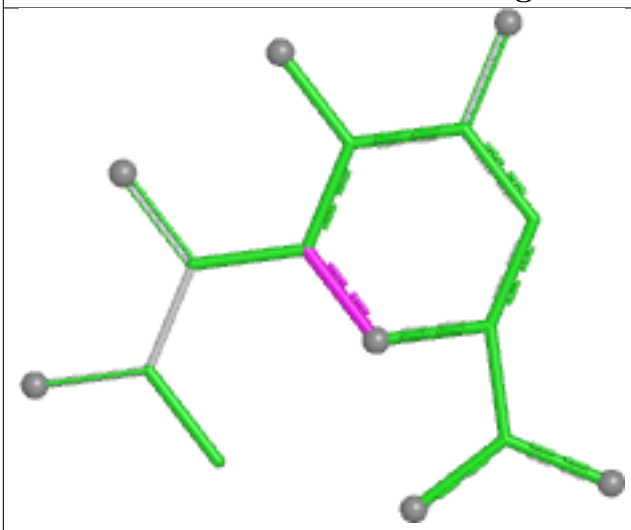


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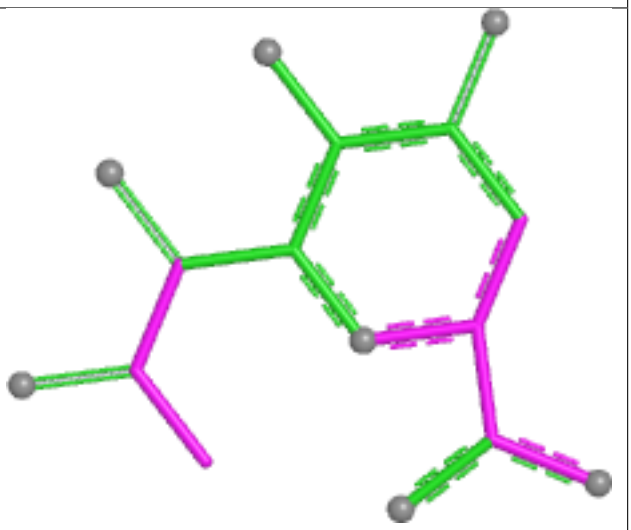


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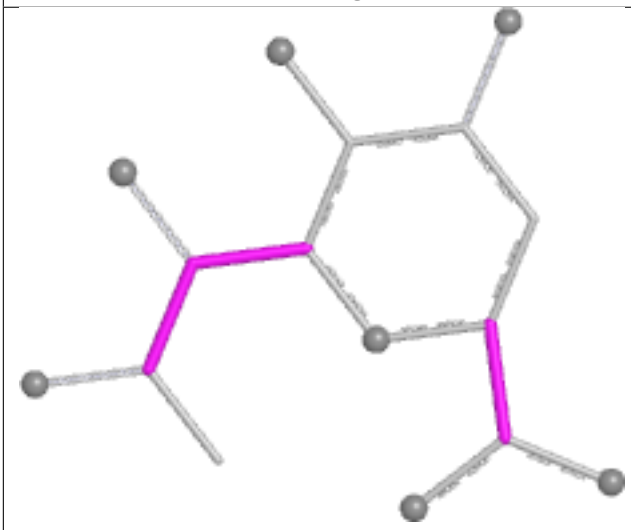
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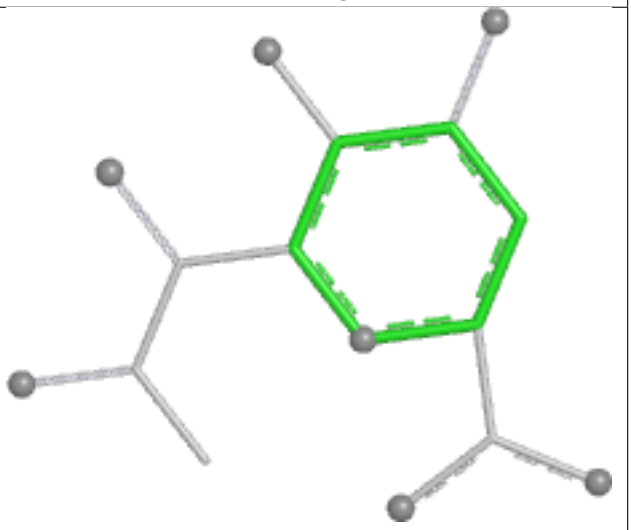
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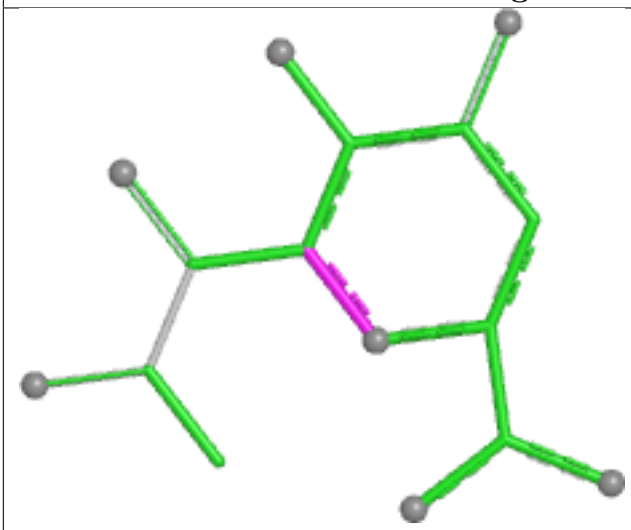


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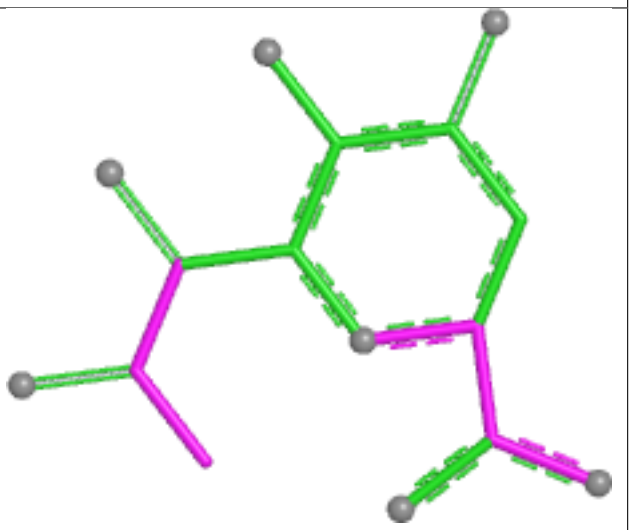


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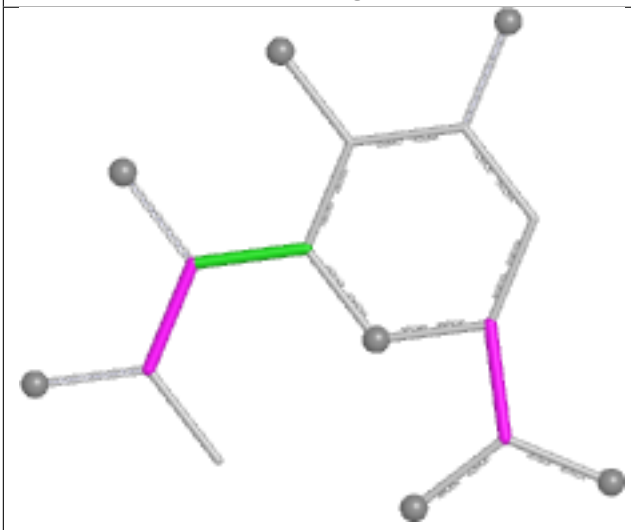
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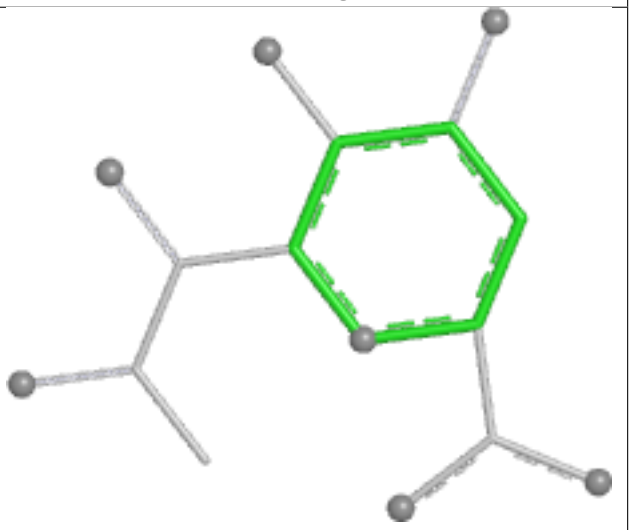
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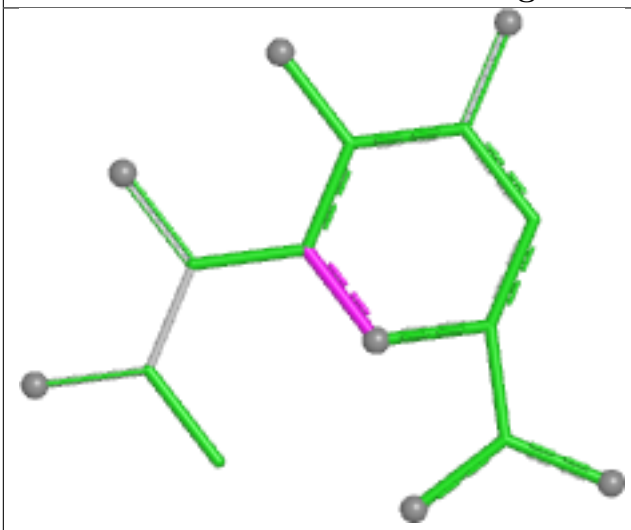


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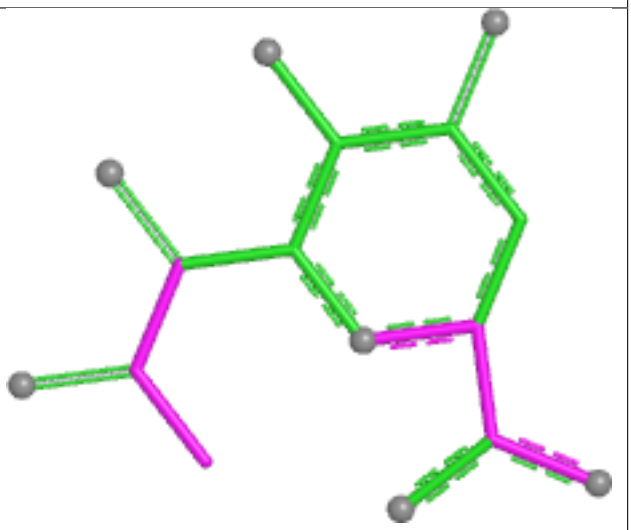


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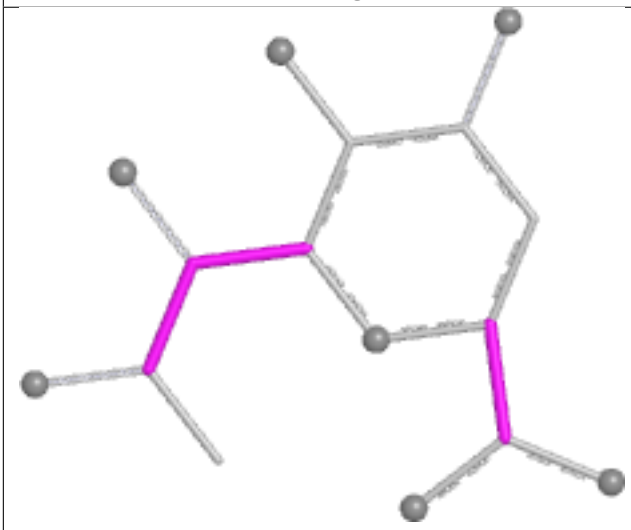
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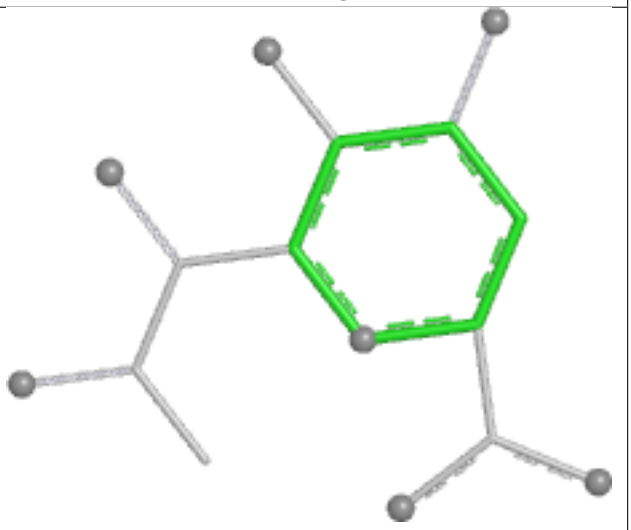
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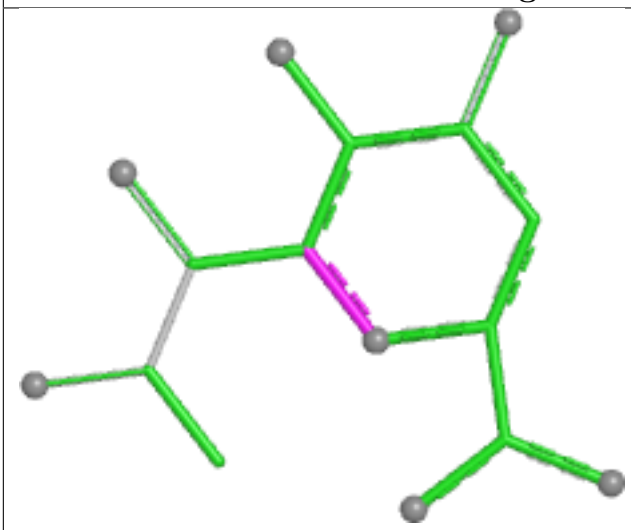


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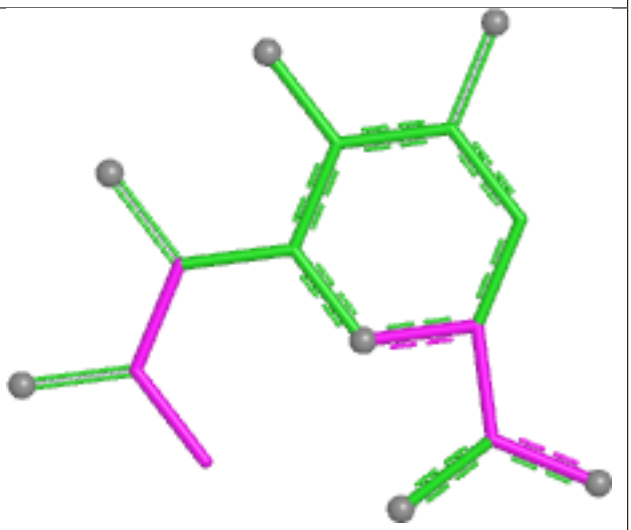


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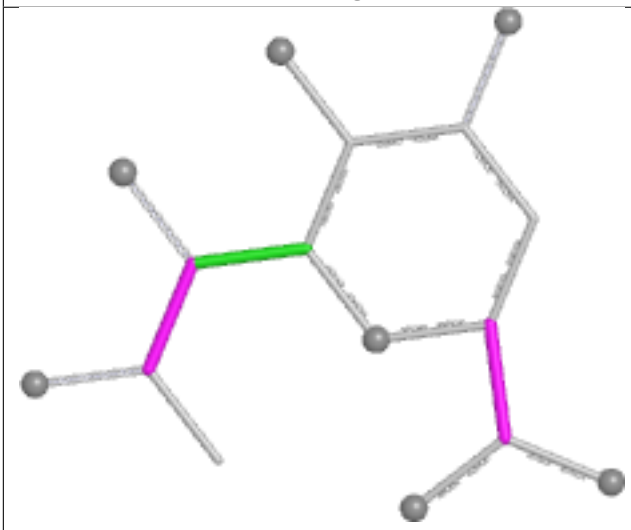
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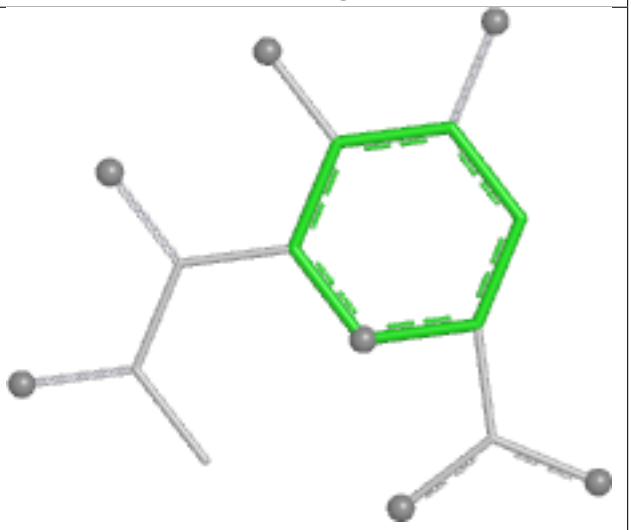
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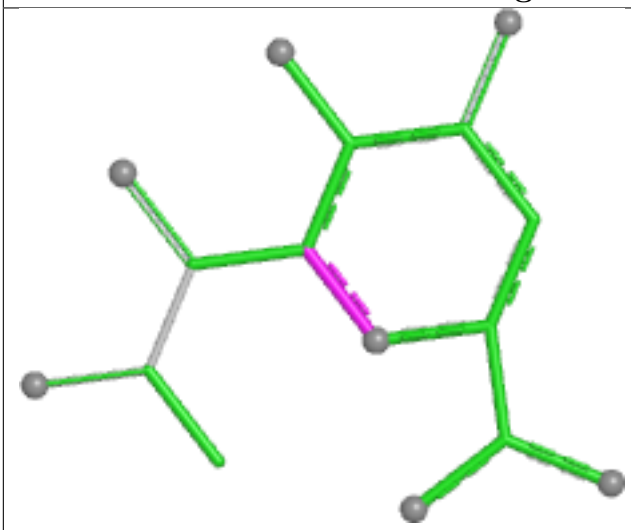


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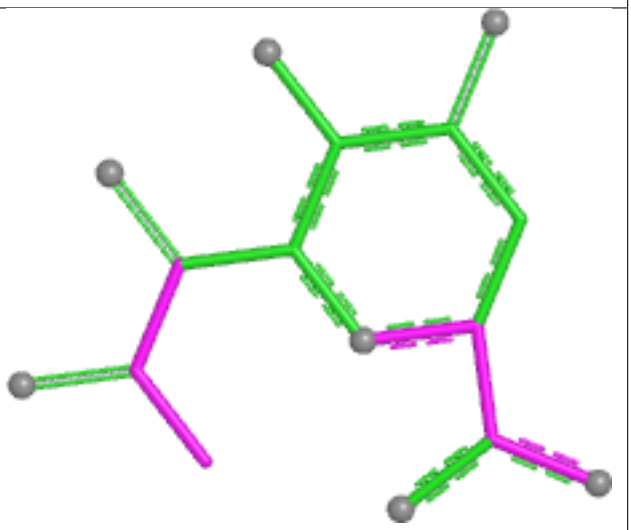


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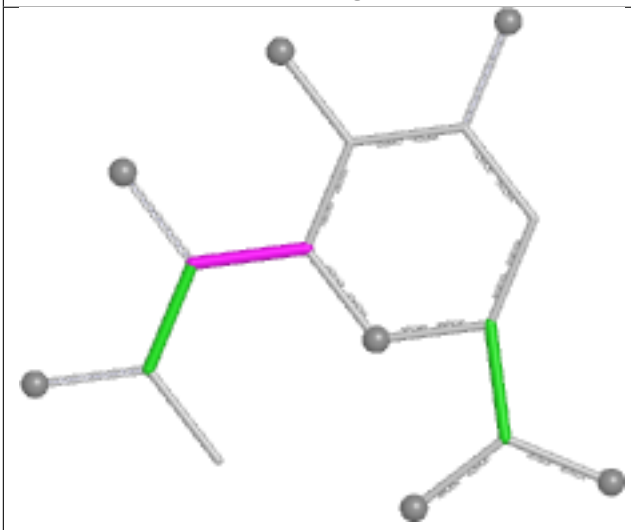
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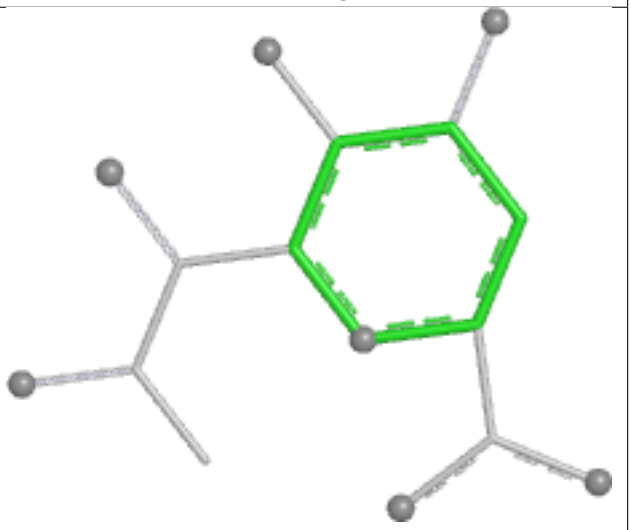
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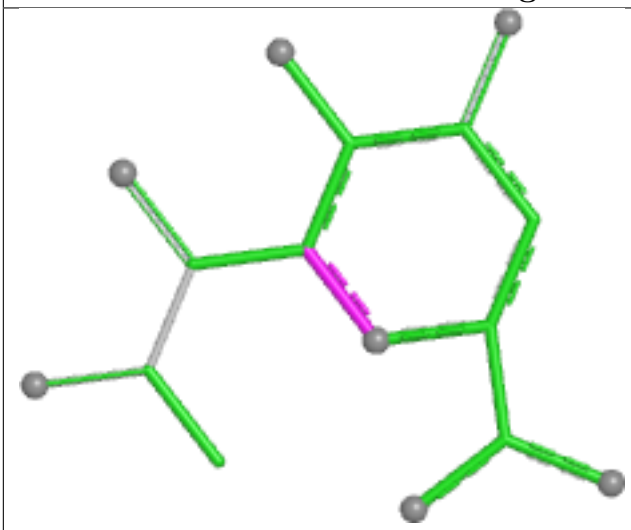


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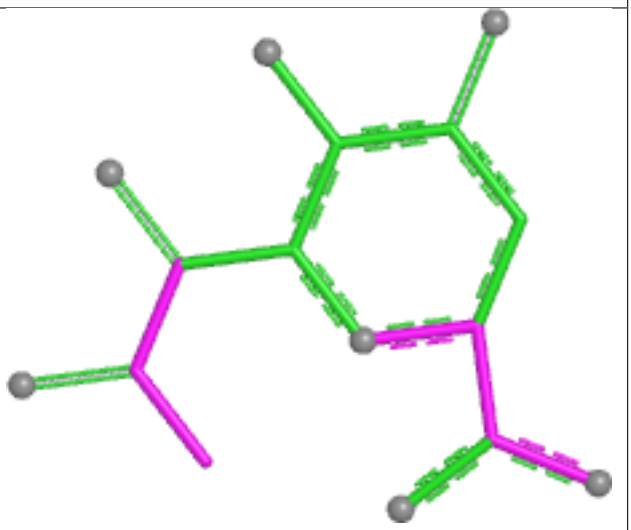


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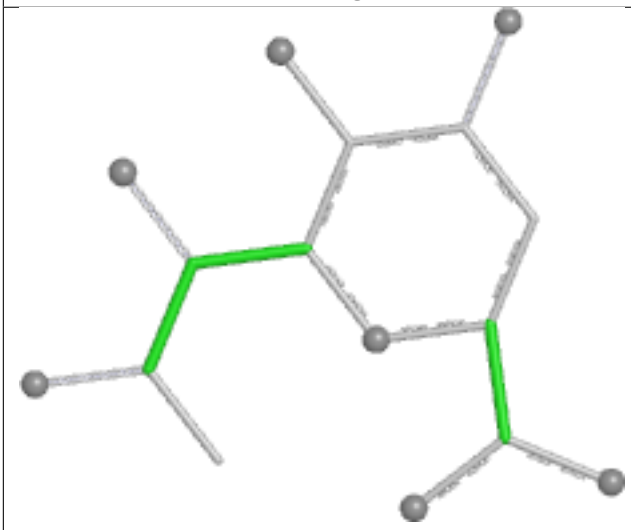
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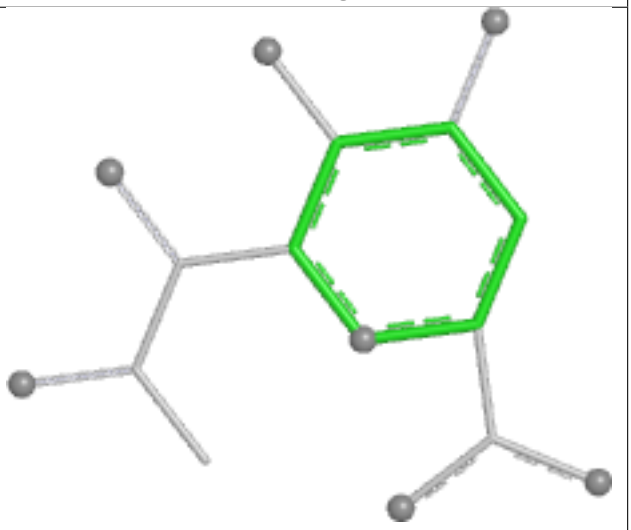
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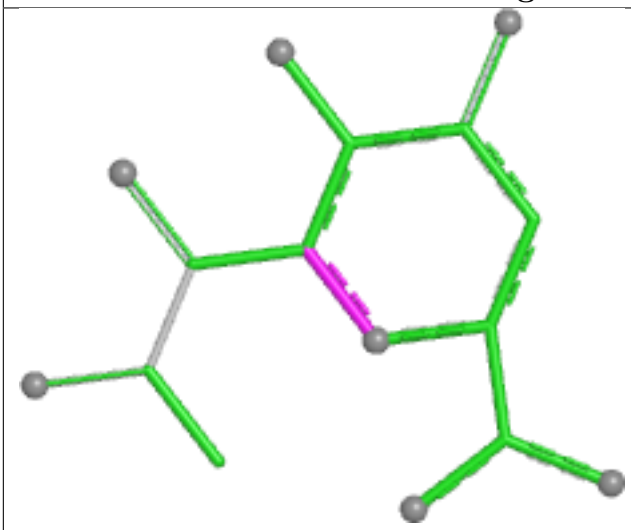


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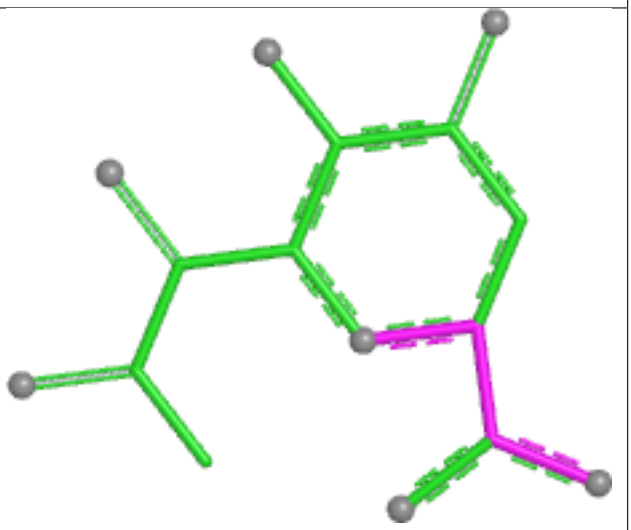


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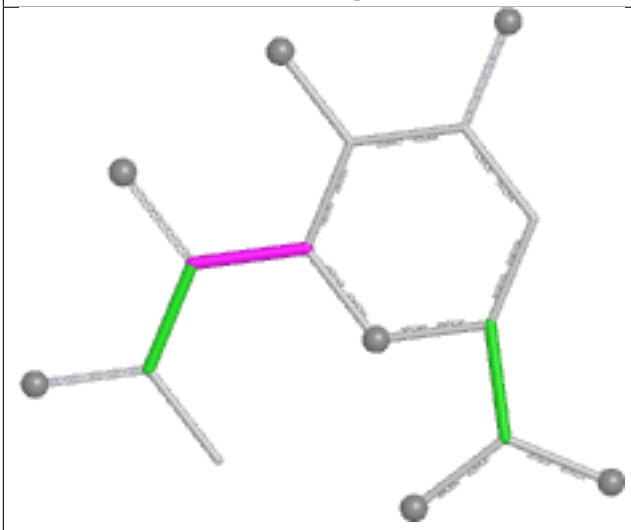
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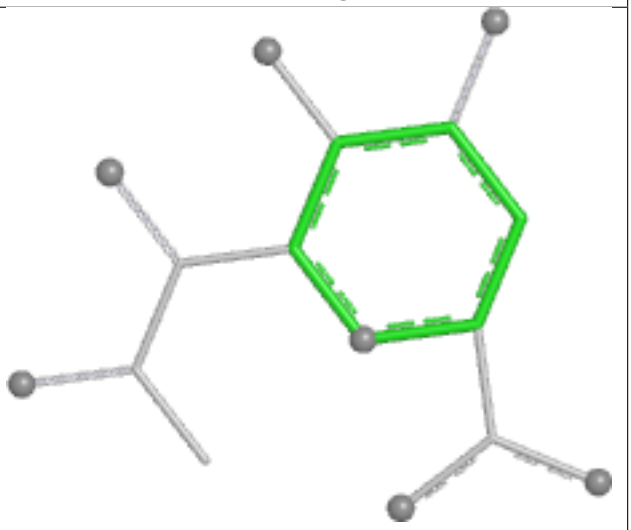
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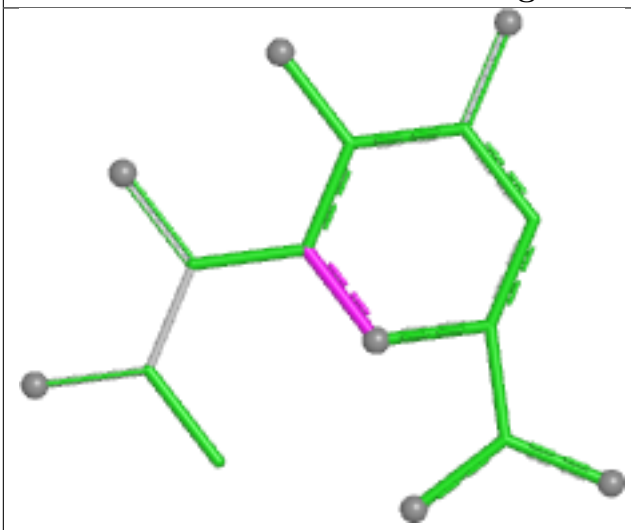


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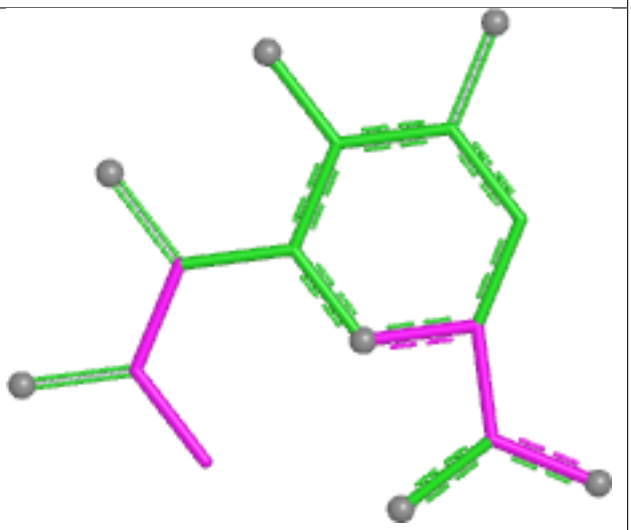


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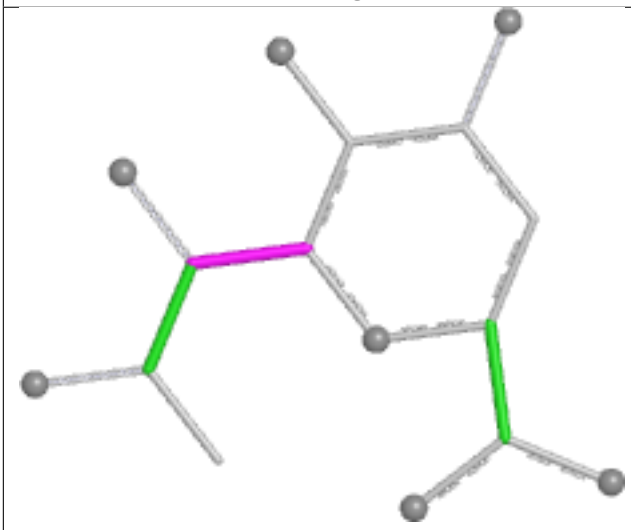
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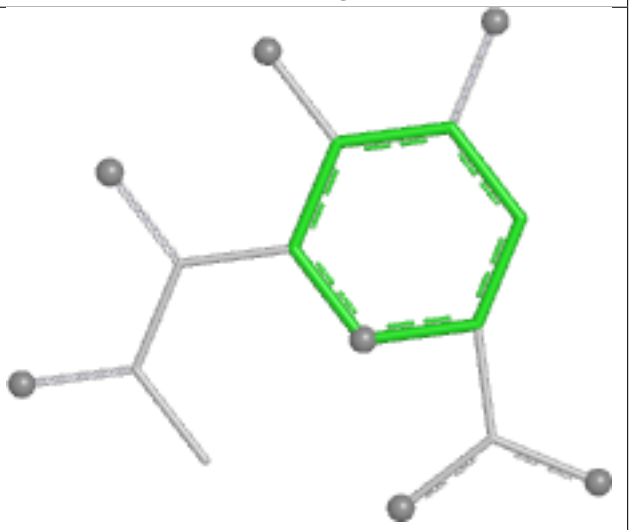
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Bond angles

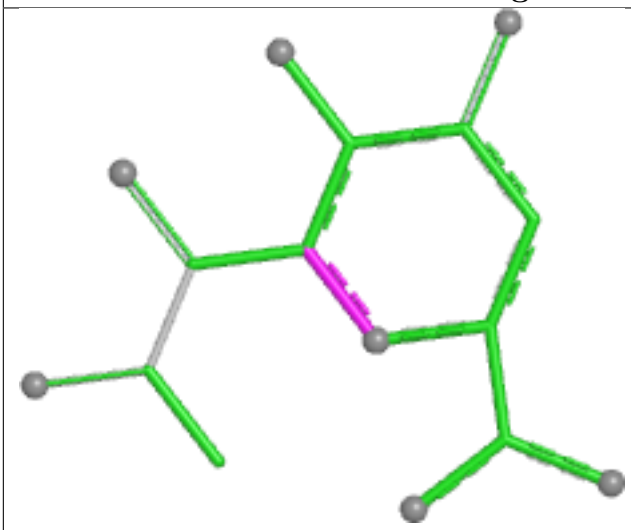


Torsions

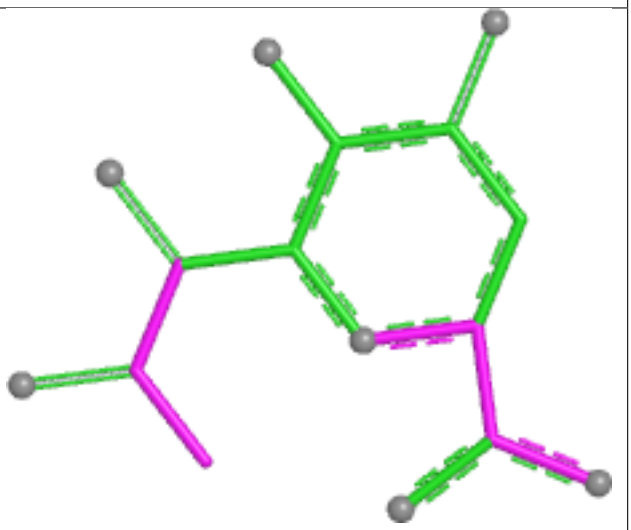


Rings

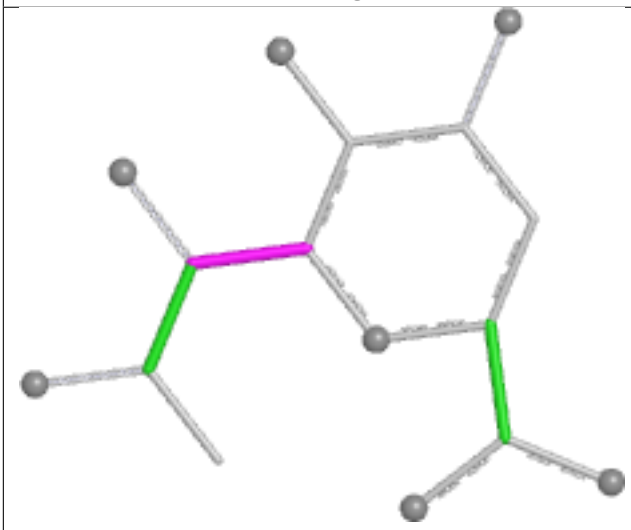
Ligand P8E AW 609



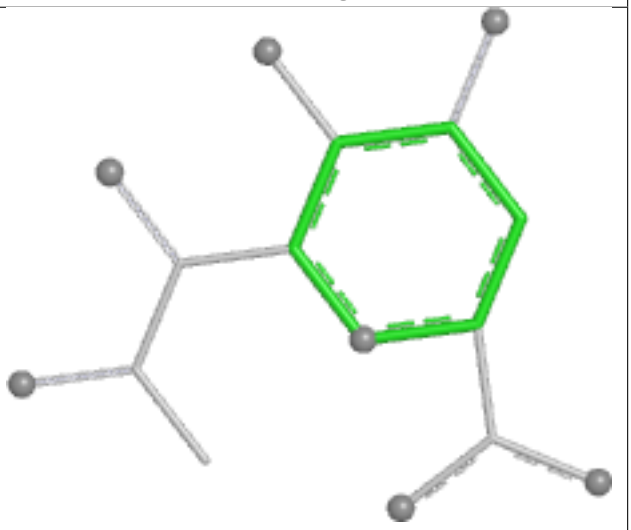
Bond lengths



Bond angles

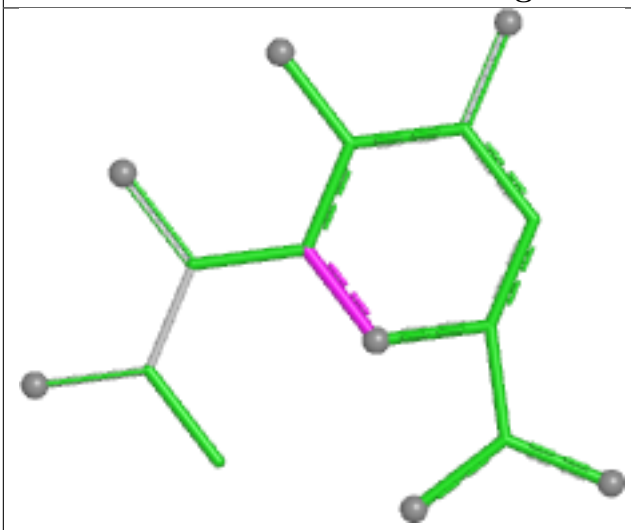


Torsions

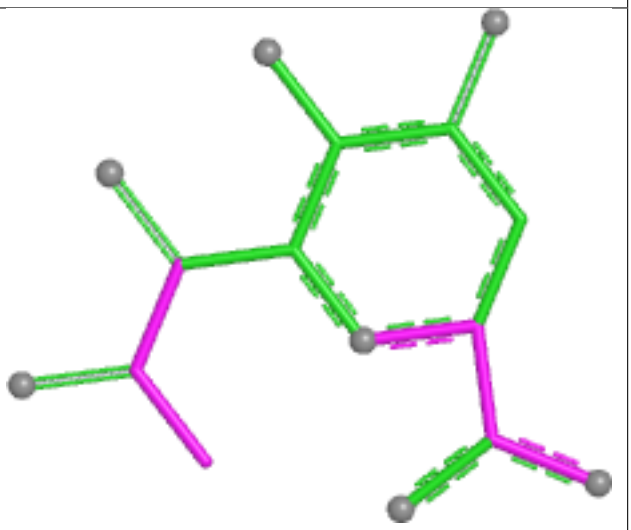


Rings

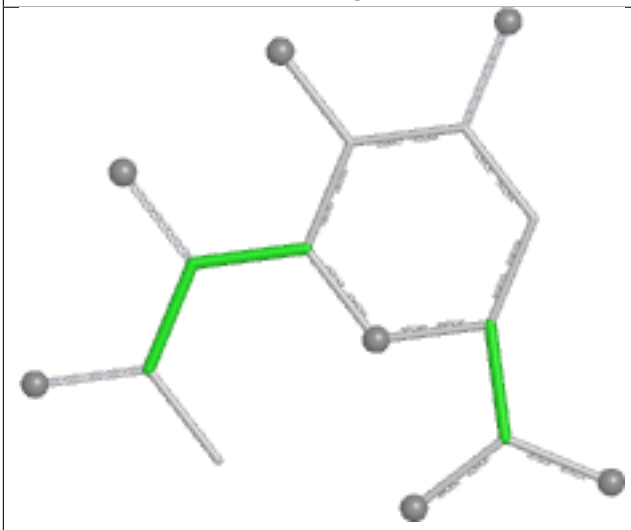
Ligand P8E AO 601



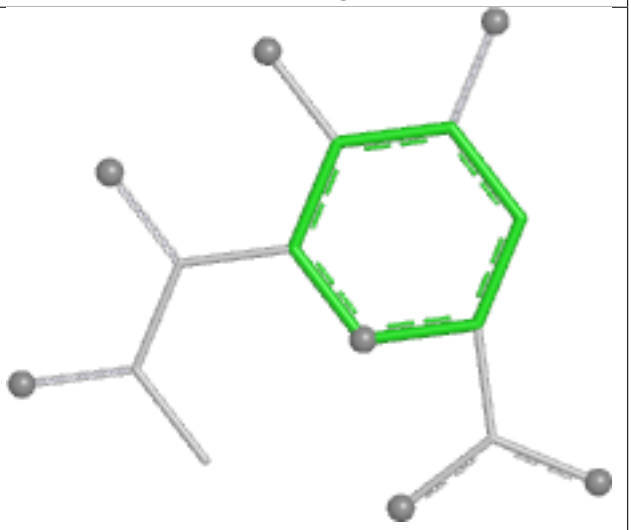
Bond lengths



Bond angles

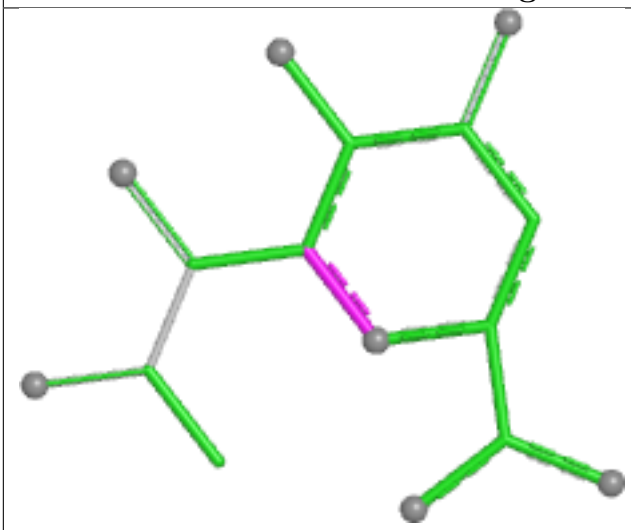


Torsions

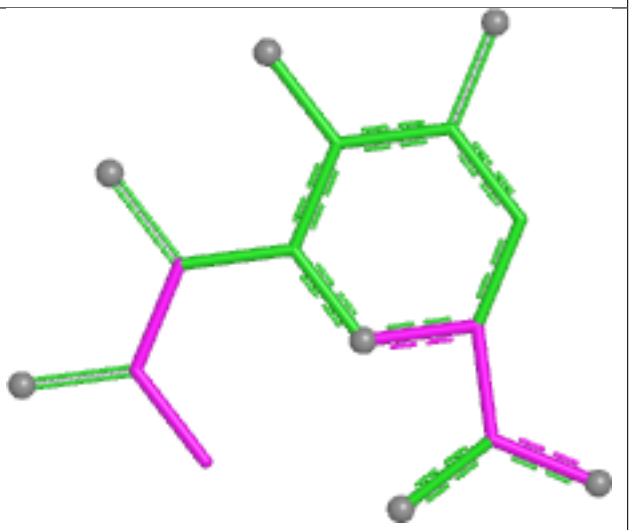


Rings

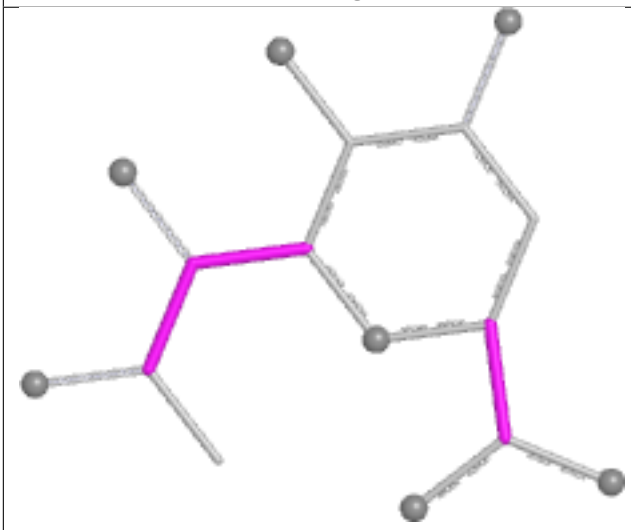
Ligand P8E A1 604



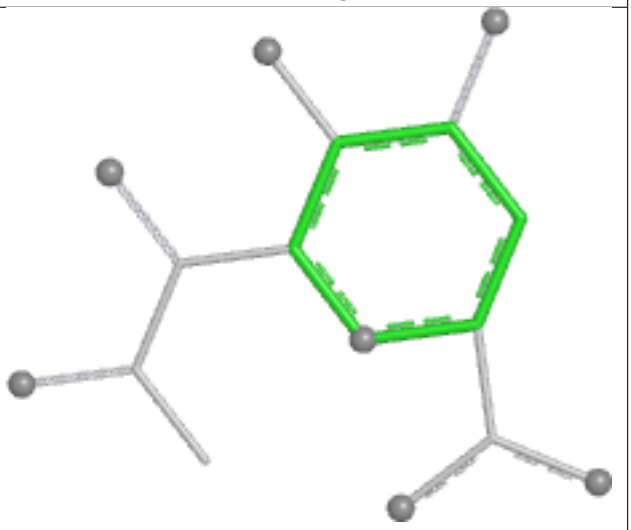
Bond lengths



Bond angles

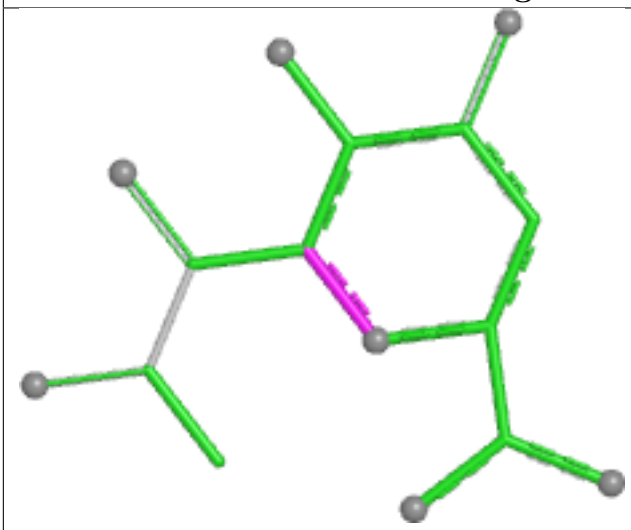


Torsions

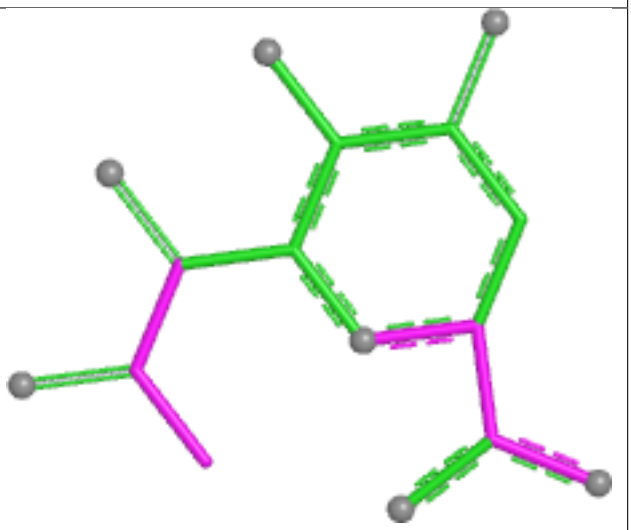


Rings

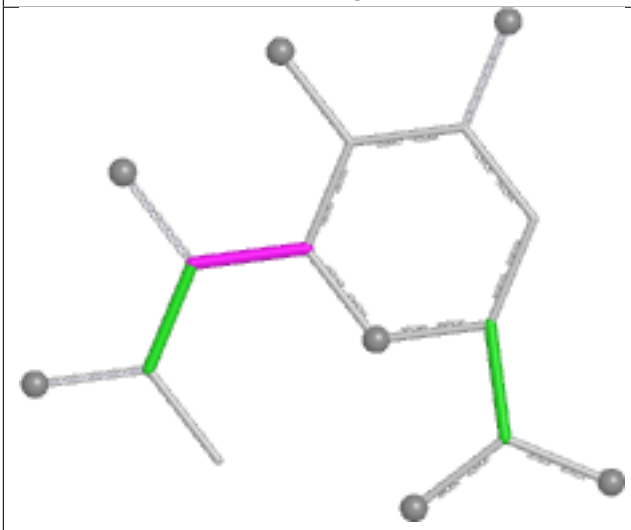
Ligand P8E AD 609



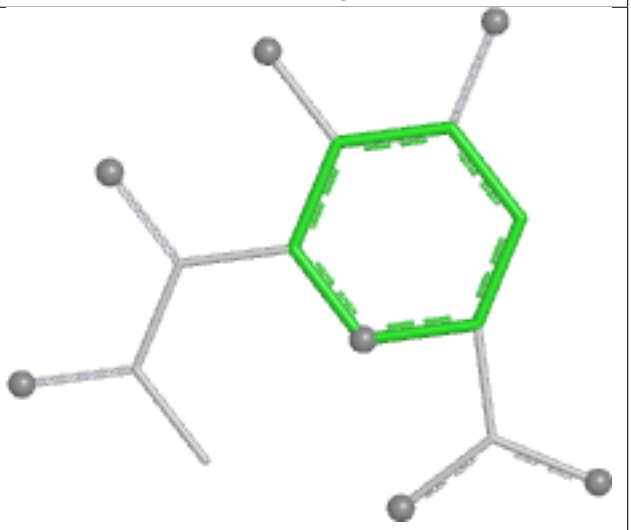
Bond lengths



Bond angles

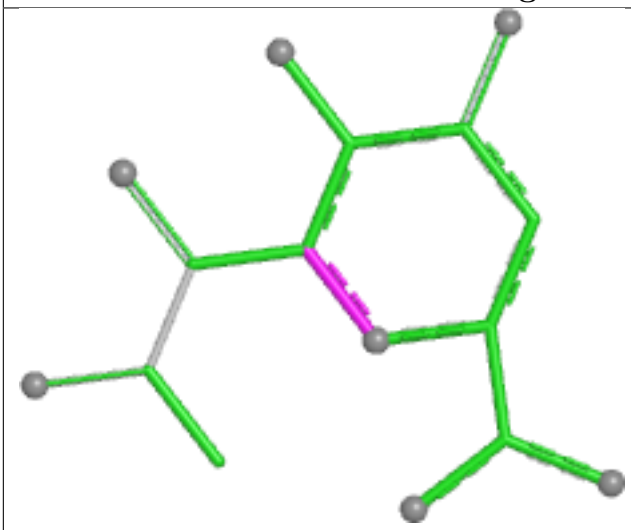


Torsions

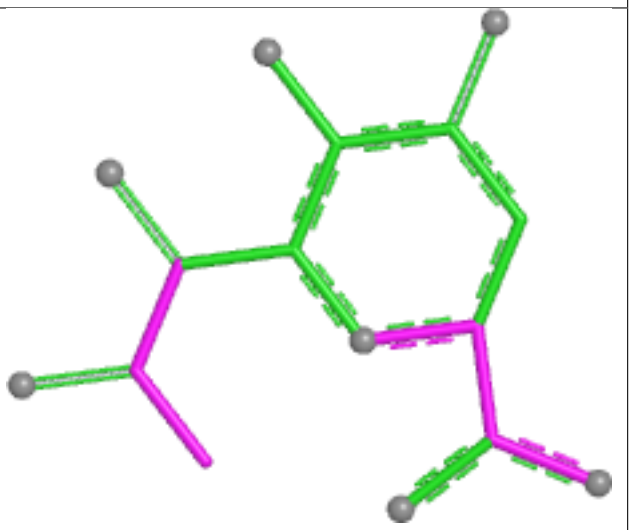


Rings

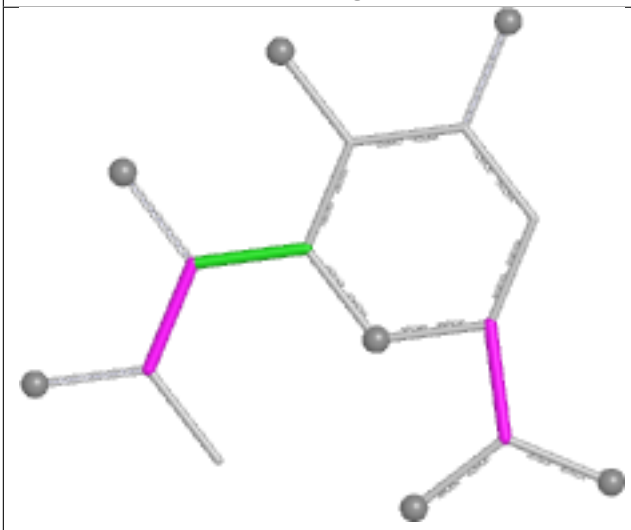
Ligand P8E A5 607



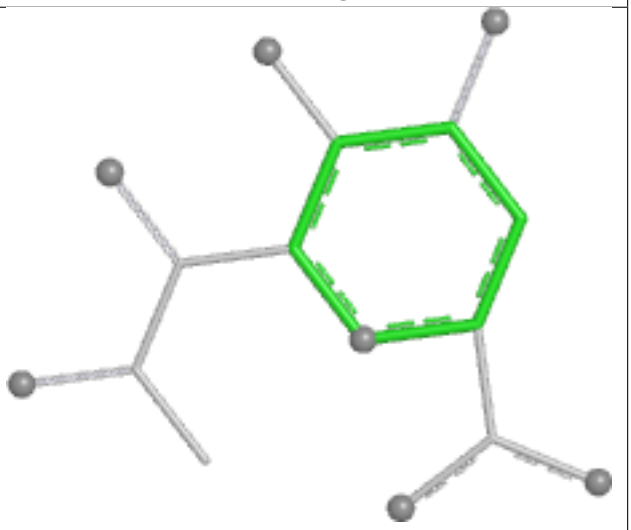
Bond lengths



Bond angles

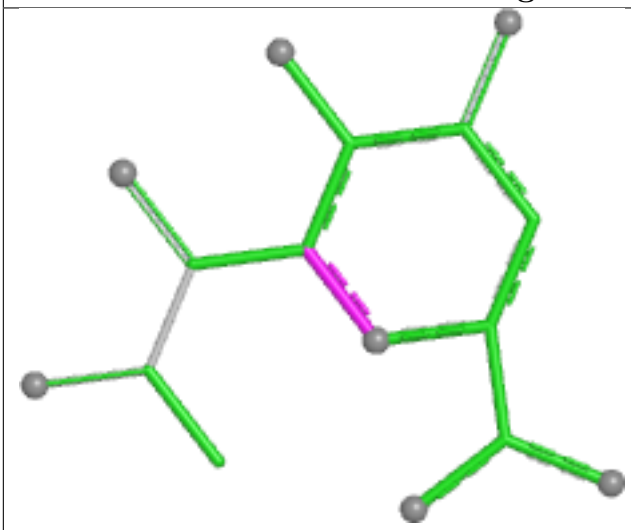


Torsions

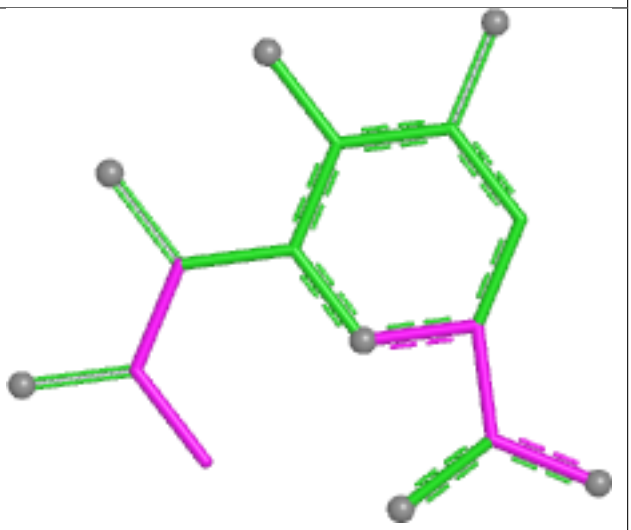


Rings

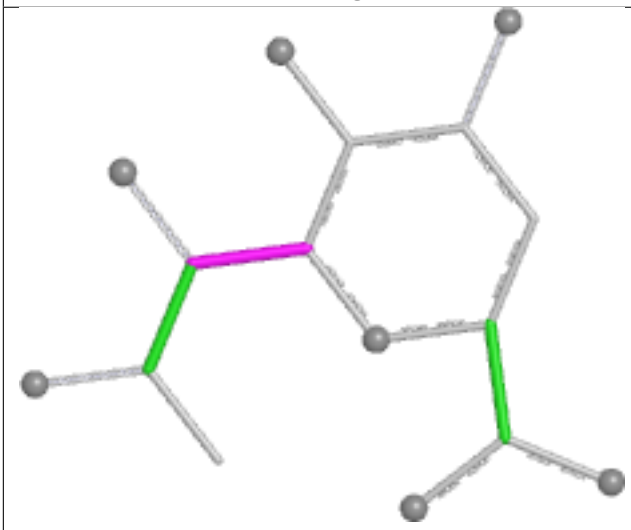
Ligand P8E AL 608



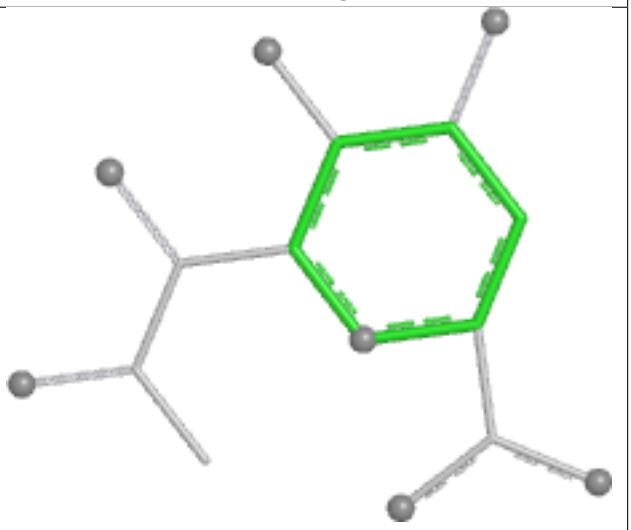
Bond lengths



Bond angles

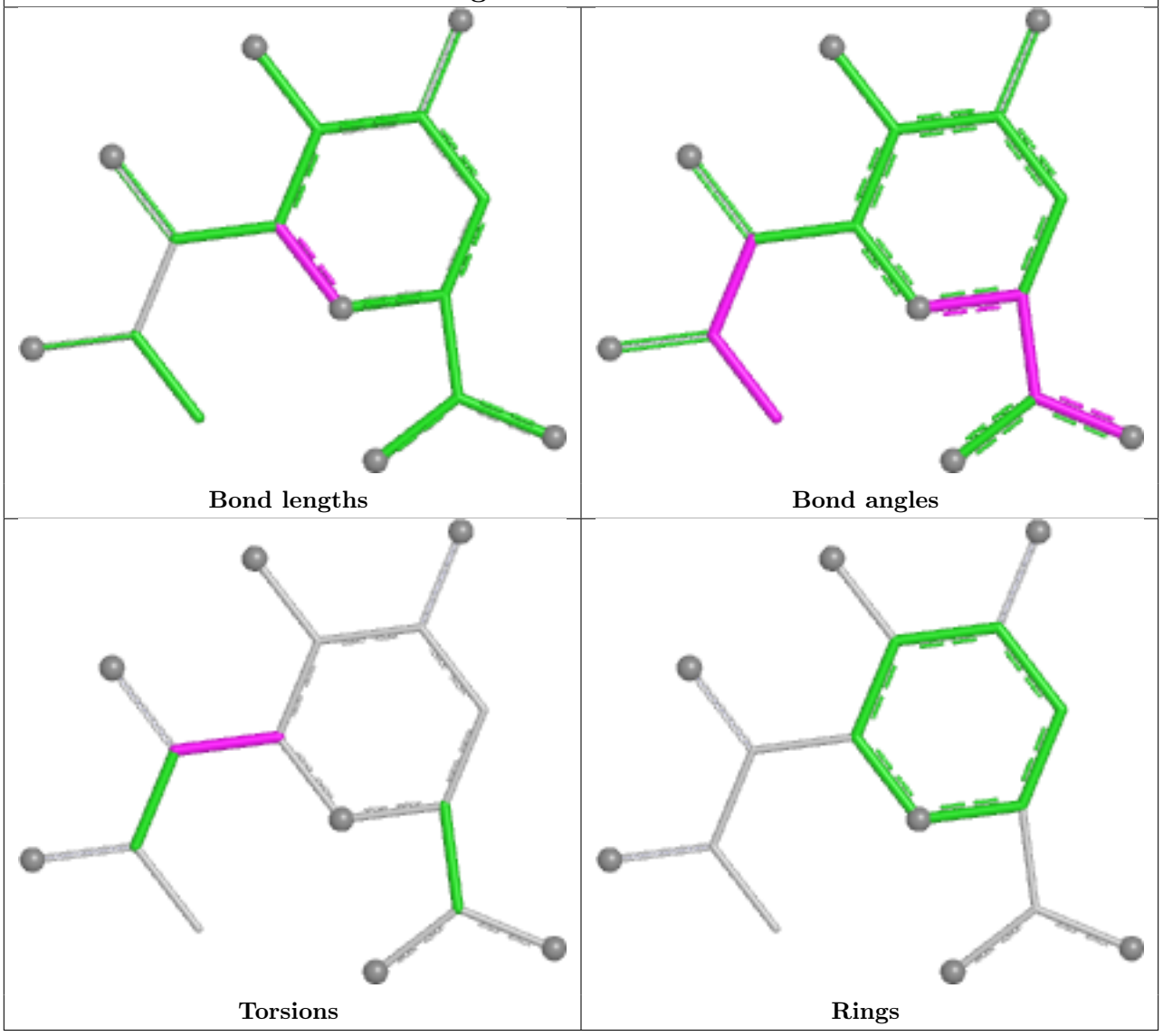


Torsions



Rings

Ligand P8E A6 603



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

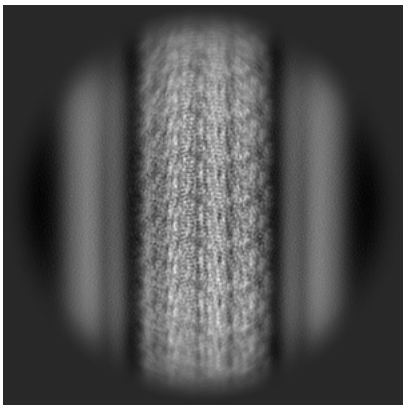
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-72948. These allow visual inspection of the internal detail of the map and identification of artifacts.

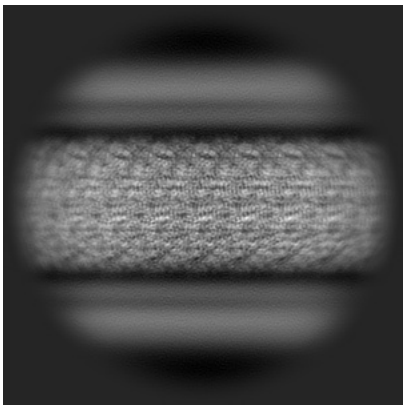
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

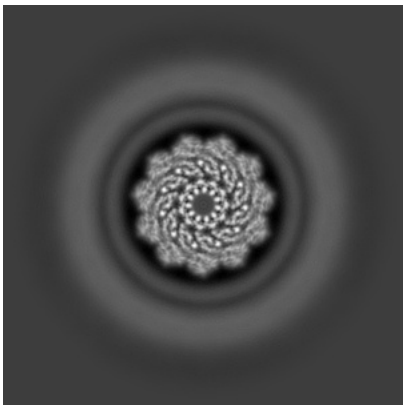
6.1.1 Primary map



X

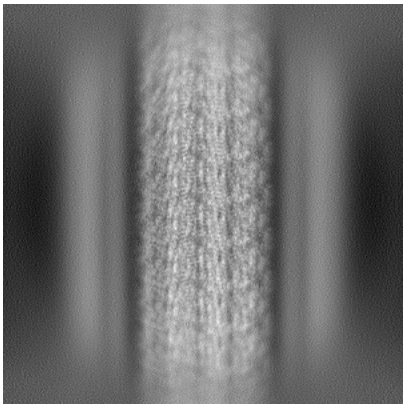


Y

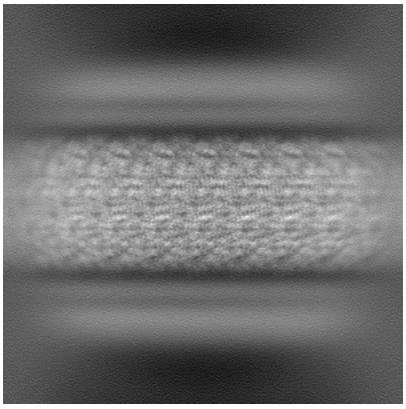


Z

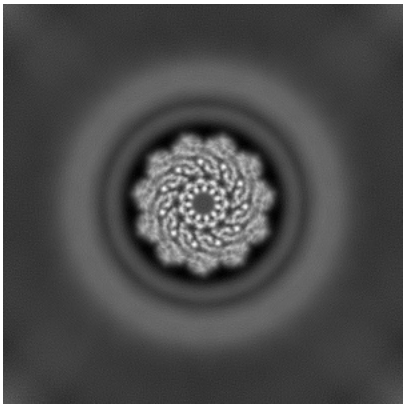
6.1.2 Raw map



X



Y

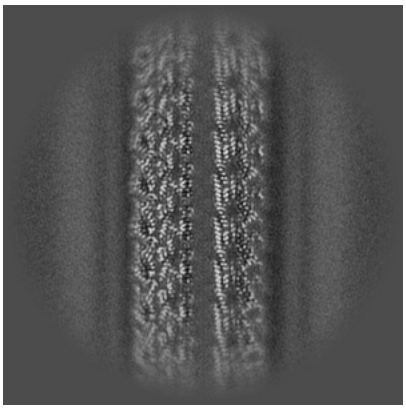


Z

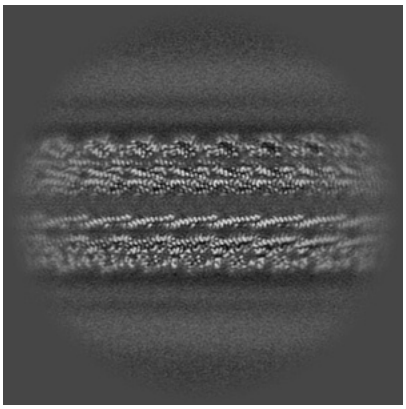
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

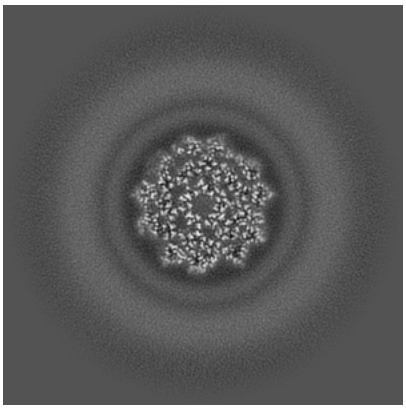
6.2.1 Primary map



X Index: 224

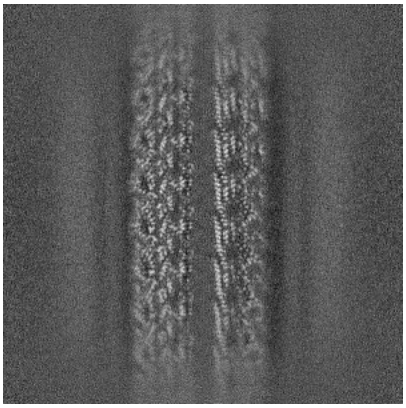


Y Index: 224

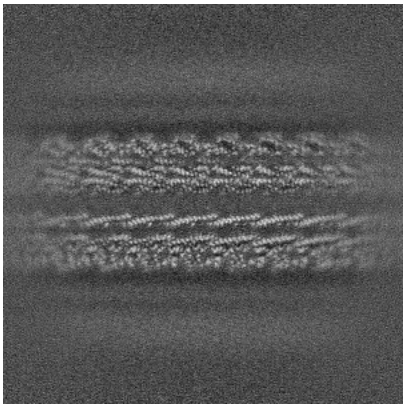


Z Index: 224

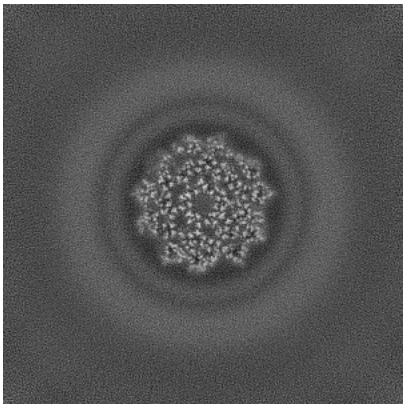
6.2.2 Raw map



X Index: 224



Y Index: 224

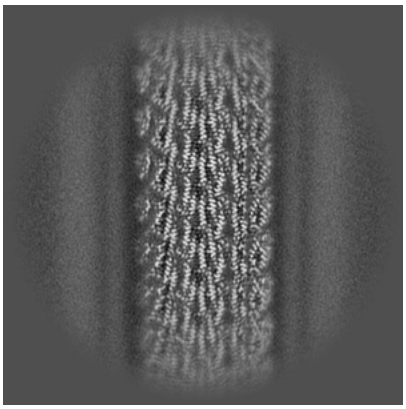


Z Index: 224

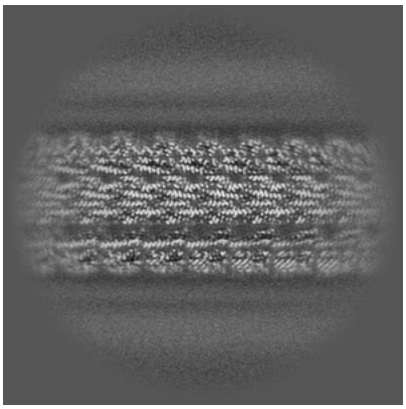
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

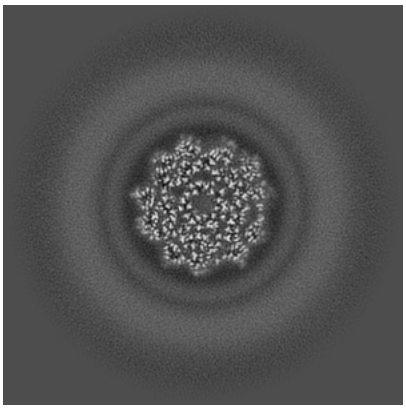
6.3.1 Primary map



X Index: 207

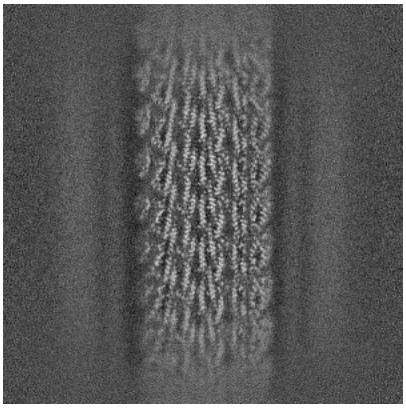


Y Index: 239

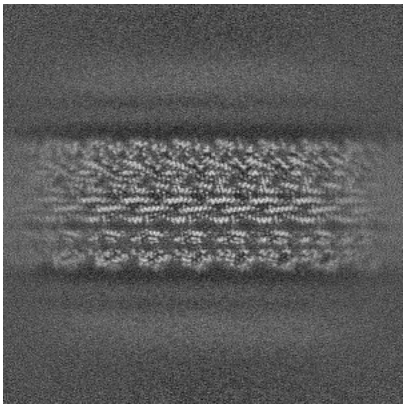


Z Index: 218

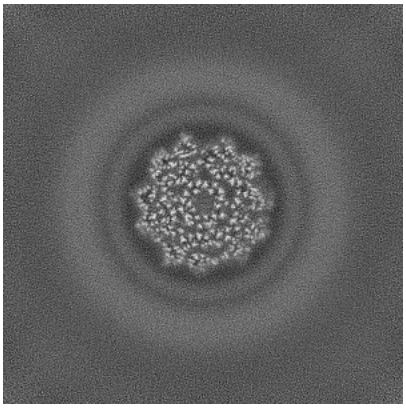
6.3.2 Raw map



X Index: 207



Y Index: 207

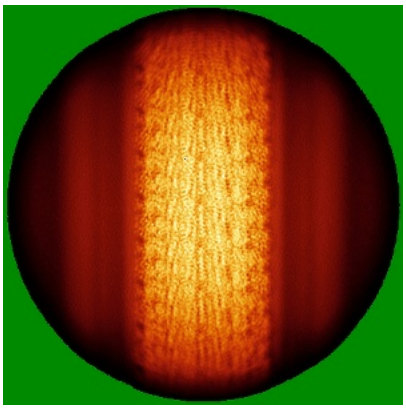


Z Index: 214

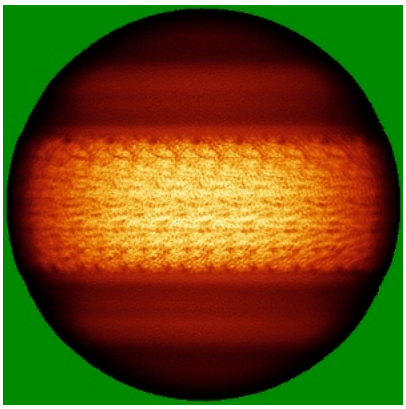
The images above show the largest variance slices of the map in three orthogonal directions.

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

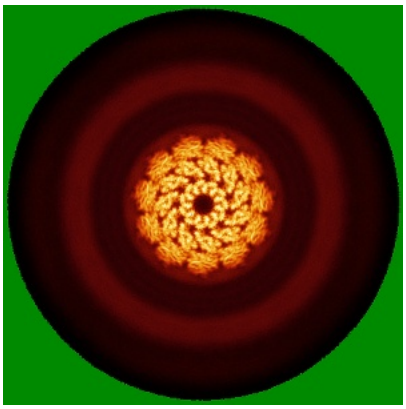
6.4.1 Primary map



X

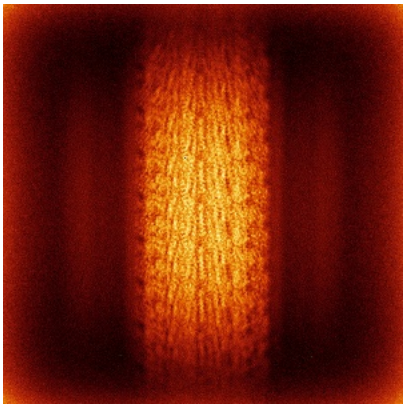


Y

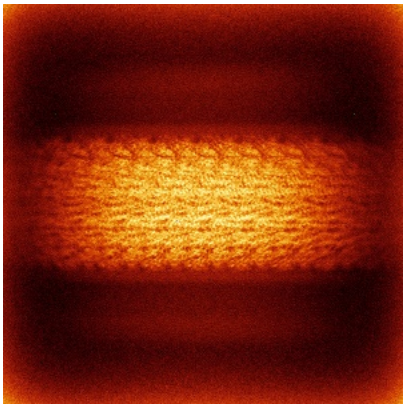


Z

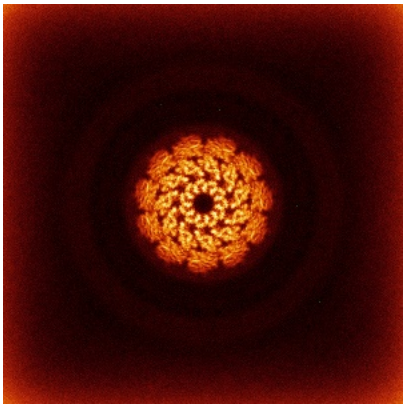
6.4.2 Raw map



X



Y

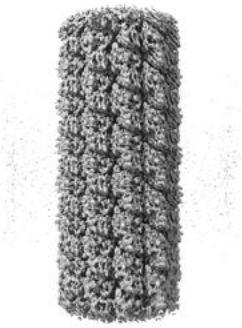


Z

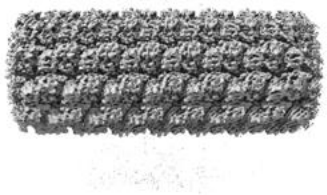
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

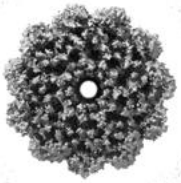
6.5.1 Primary map



X



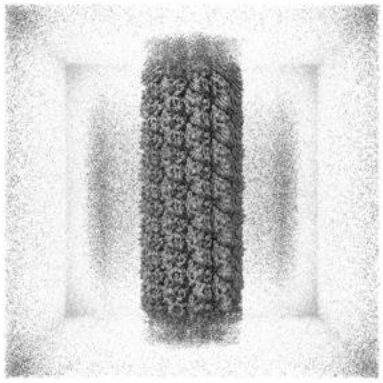
Y



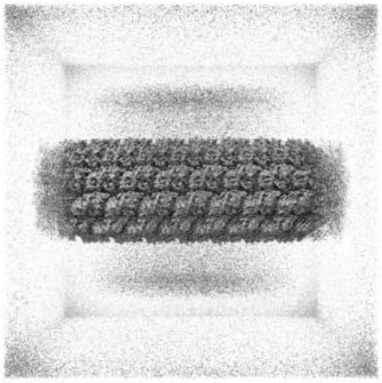
Z

The images above show the 3D surface view of the map at the recommended contour level 0.052. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

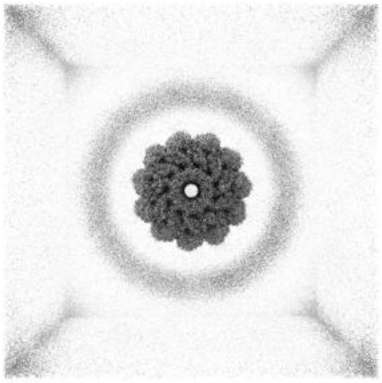
6.5.2 Raw map



X



Y



Z

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

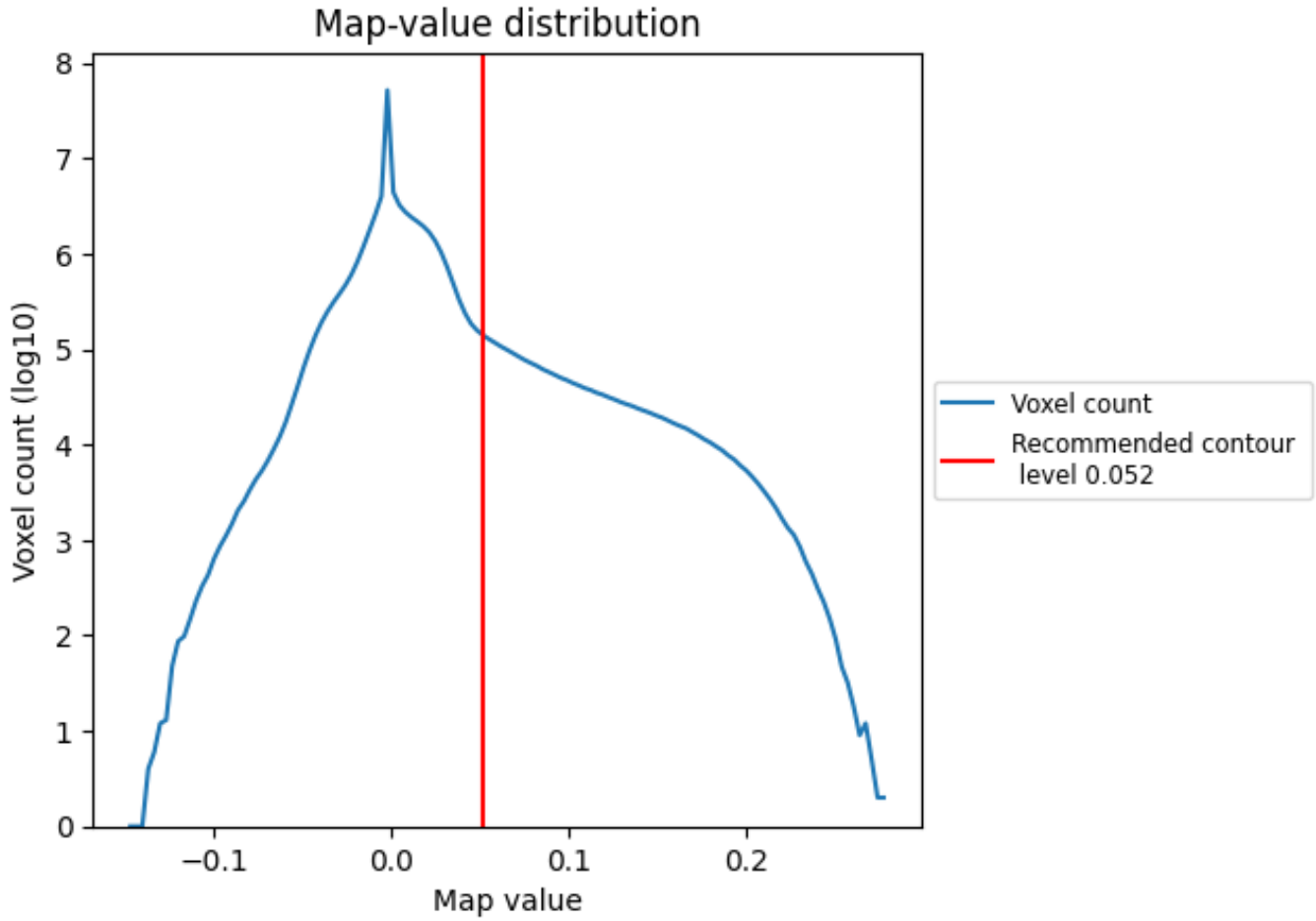
6.6 Mask visualisation (i)

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

7 Map analysis

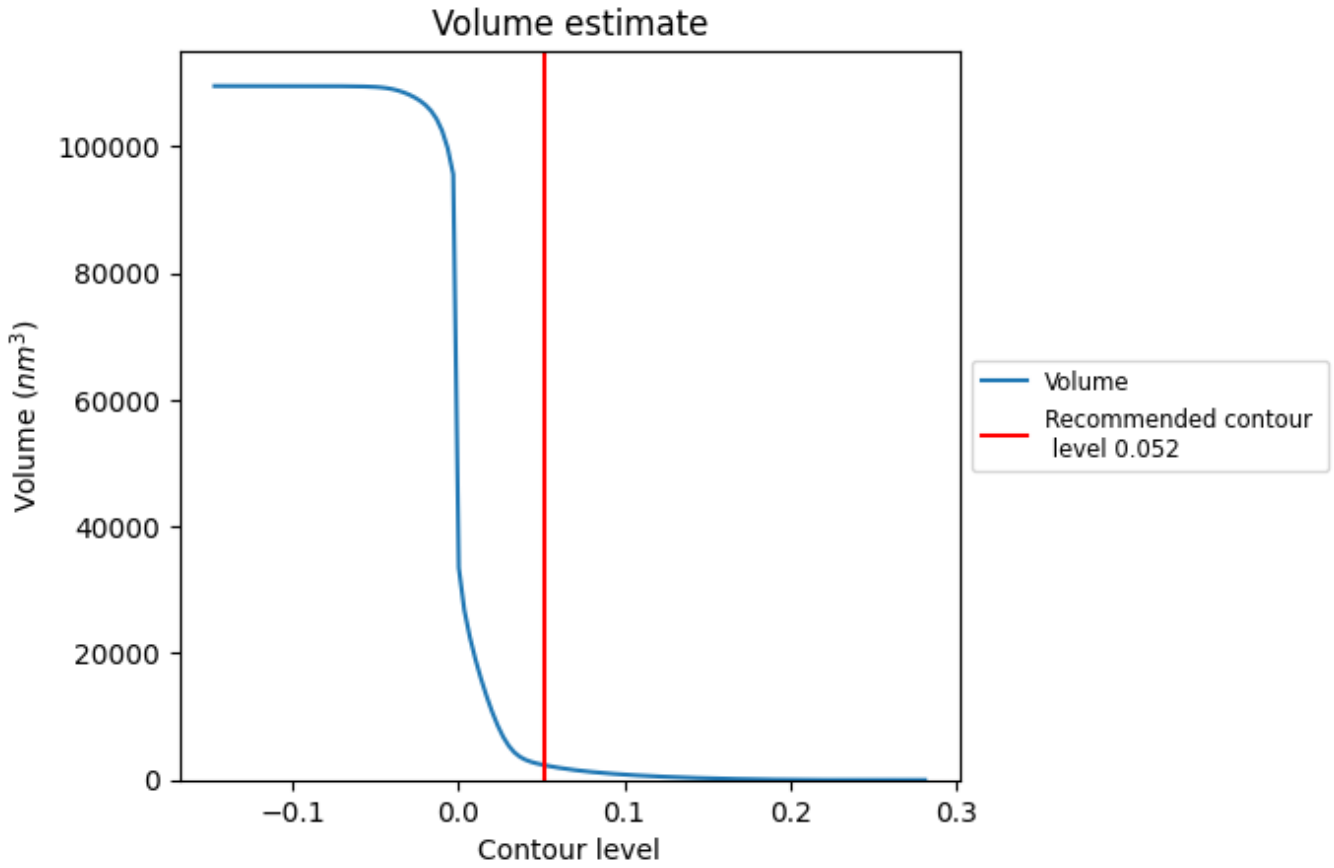
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

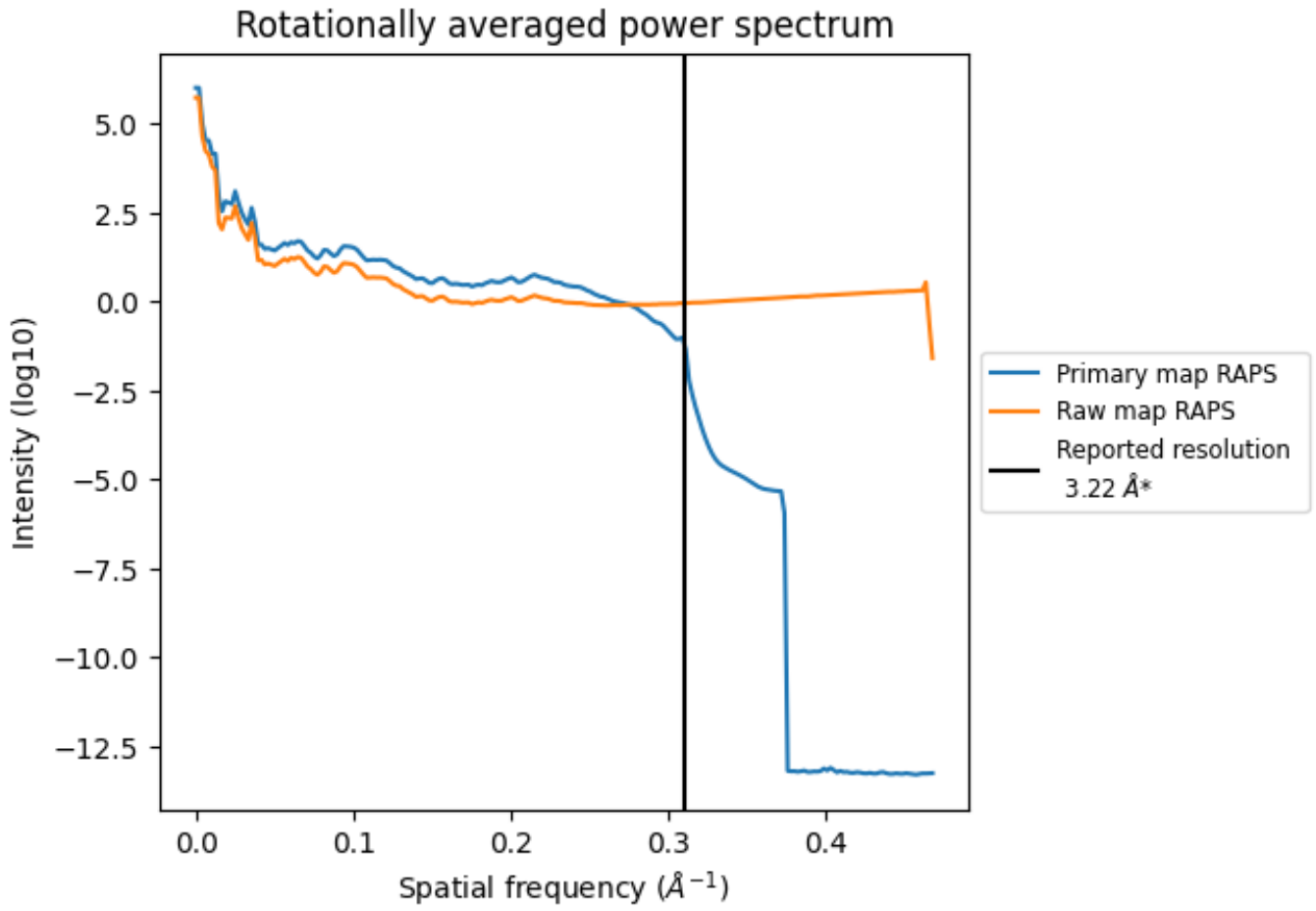
7.2 Volume estimate



The volume at the recommended contour level is 2330 nm^3; this corresponds to an approximate mass of 2105 kDa.

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

7.3 Rotationally averaged power spectrum (i)

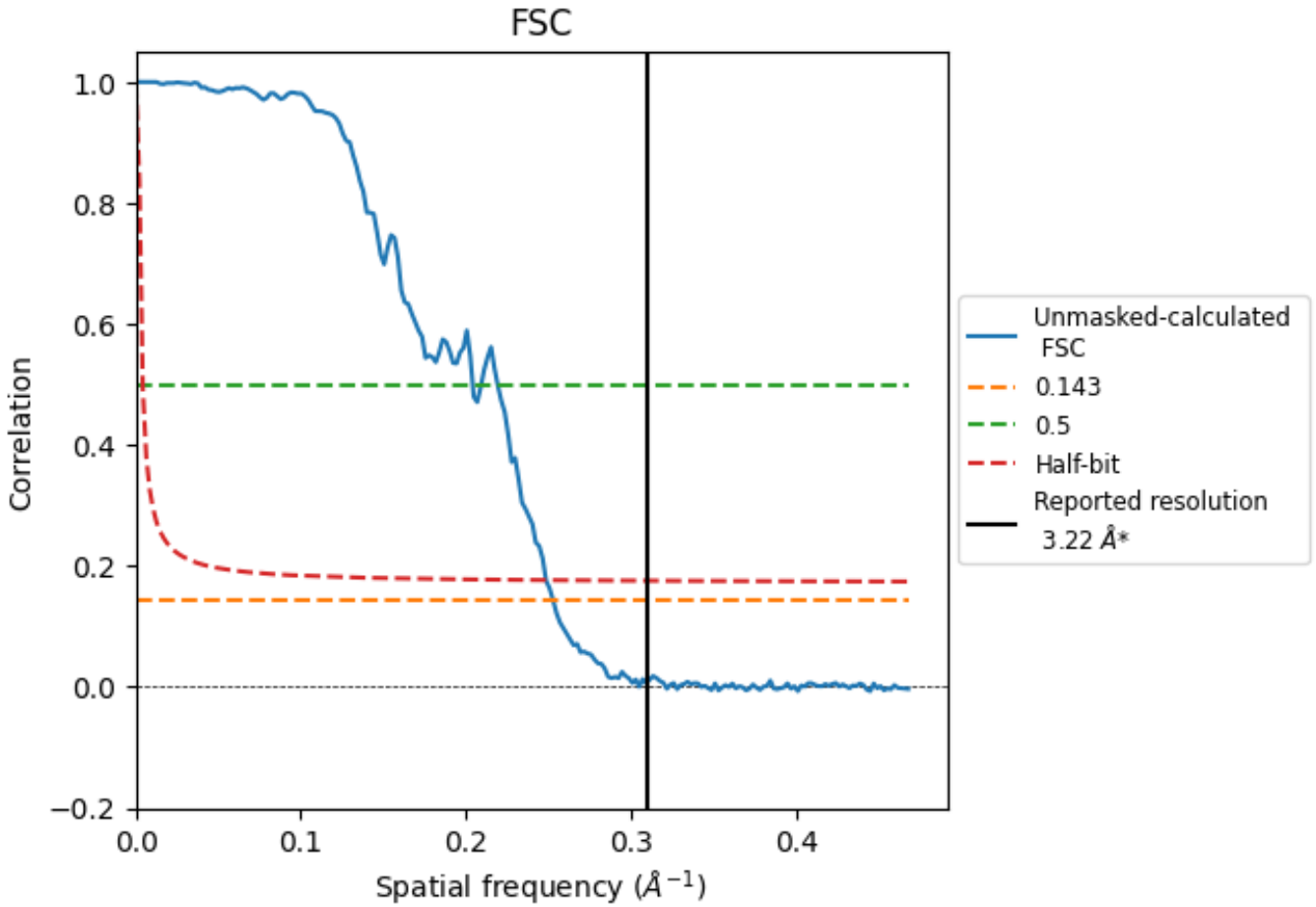


*Reported resolution corresponds to spatial frequency of 0.311 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.311 Å^{-1}

8.2 Resolution estimates (i)

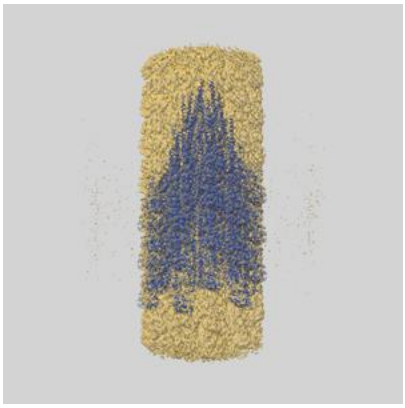
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.22	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.95	4.90	4.02

*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 3.95 differs from the reported value 3.22 by more than 10 %

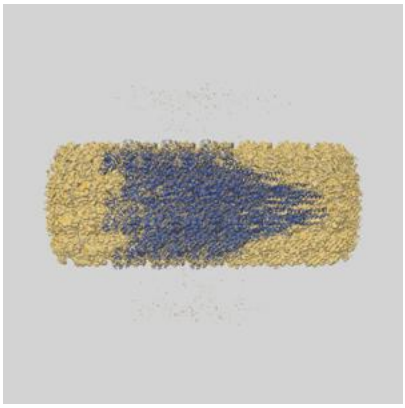
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-72948 and PDB model 9YH1. Per-residue inclusion information can be found in section 3 on page 23.

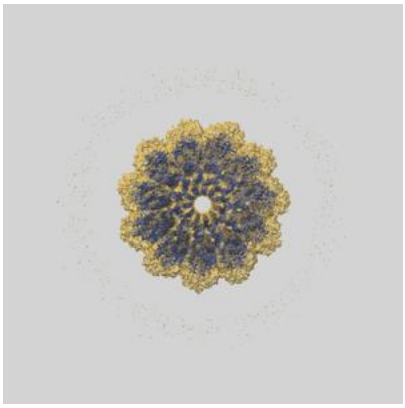
9.1 Map-model overlay



X



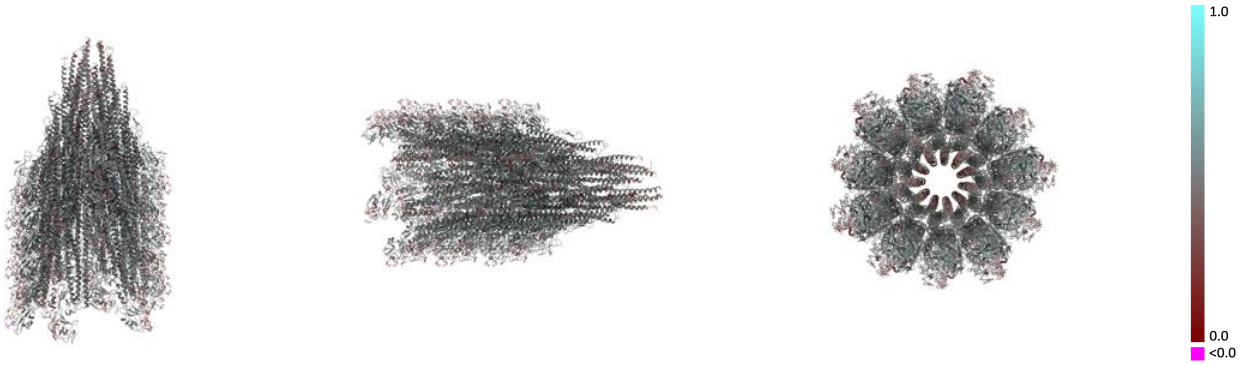
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.052 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

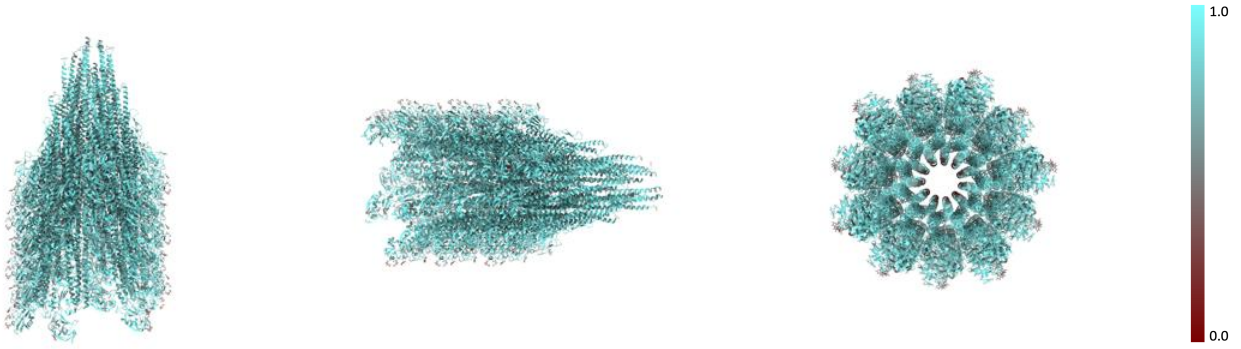
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

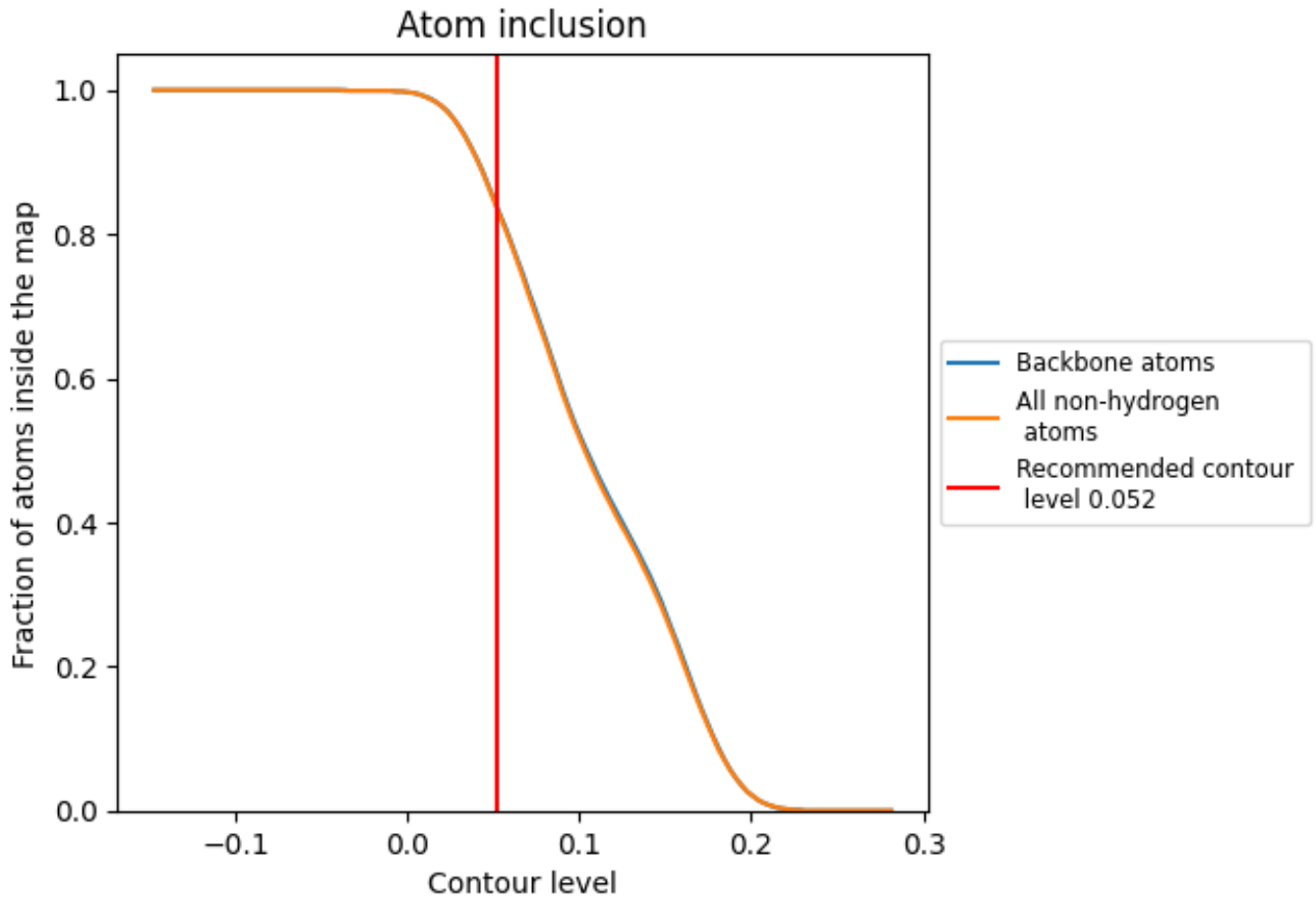
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.052).

9.4 Atom inclusion (i)



At the recommended contour level, 84% of all backbone atoms, 84% 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 (0.052) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8370	0.4740
A1	0.8420	0.4780
A2	0.8450	0.4800
A3	0.8270	0.4580
A4	0.8390	0.4740
A5	0.8440	0.4730
A6	0.8450	0.4790
A7	0.8260	0.4560
A8	0.8420	0.4720
A9	0.8430	0.4790
AA	0.8380	0.4710
AB	0.8350	0.4700
AC	0.8380	0.4680
AD	0.8330	0.4670
AE	0.8300	0.4630
AF	0.8470	0.4800
AG	0.8520	0.4800
AH	0.8510	0.4800
AI	0.8500	0.4790
AJ	0.8380	0.4710
AK	0.8490	0.4790
AL	0.8420	0.4690
AM	0.8480	0.4820
AN	0.8510	0.4810
AO	0.8440	0.4760
AP	0.8520	0.4770
AQ	0.8470	0.4810
AR	0.8500	0.4810
AS	0.8510	0.4780
AT	0.8490	0.4800
AU	0.8470	0.4770
AV	0.8320	0.4700
AW	0.8420	0.4750
AX	0.8220	0.4560

